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DES MOINES, IOWA, JANUARY 6, 1910.

WHOLE NO. 2726

CHANCE FOR SMALL FEEDERS.

We can all remember when father had a steer or two, a heifer or a cow tied in the barn, to which he paid more than passing attention and gave unusual feed and care. He had them there to fatten. After a time this method of fattening, known as stall feeding, passed out of fashion. The day of larger operations dawned, and few farmers thought of fattening cattle unless they had a carload to feed together. That was and has been for years the smallest number thought worthy of feeding.

As the country becomes more populous, farms and farmers become more numerous and the herds of cattle smaller, we are liable to break away from larger feeding operations and return to fattening our animals in smaller numbers. We may even find it profitable, if it is not already so, to stall feed the cattle we have raised.

Taking the average neighborhood of the corn belt as an example, you can usually look in vain for a carload of steers, all the same age and raised by cows kept on the farm. If any farmer has a car load or more, he has bought the majority of them from neighbors; he did not raise them. We very much doubt the wisdom of selling steer calves at weaning age or any other age until fattened for market. The corn-belt farmer is marketing two products in an unfinished state when he does it—his corn and his cattle. It is not finished farming to do this,

it is not seeing a work that should be done clear to the end. An objection in the past to feeding less than a car load was inconvenience in marketing. This was often followed up by the feeder having to accept a low price for his stuff from shippers who stood firm on a low offer, "because there's not a car load." Shippers have gotten bravely over the less-than-a-car-load idea, and are now willing to take what they can get and glad enough to get it. The system of selling at the stock yards is also more favorable to a mixed load of stock than it once was. An animal now sells more nearly on its individual merit, being rarely "lumped" off with others. This helps out the small feeder. Since time immemorial it has been a well-known fact

that the smaller the number, the greater the gain. A half car load of steers will often do better on equal rations than a full car load, while two or three animals, especially if fed in a stall, invariably do better than would ten or twelve in a yard. The tendency of farmers having four or five steers has been to sell them to a feeder rather than attempt feeding them themselves. We have known many a farmer to sell four or five steers, heifers or cows, and the next week haul off enough corn, selling it at a mill elevator, to fatten the stock sold. If the corn had been fed to the stock and the stock sold when fat, the increase in value would often amount to as much as the selling price of either the corn or the stock marketed in what may be called its unfinished condition.

We realize it is some trouble to stall feed cattle, or to go through all the motions of feeding a car load to feed six or eight head in a lot, but it is going to pay the farmer of the future to do this, and whatever pays is the thing to tackle. We are drifting fast towards this way of beef production, and we are glad of it. It will mean a better quality of beef, a better system of farming and a chance for every farmer, even though he has but a half dozen cows that produce calves, to become a finished farmer in every sense of the word. There is always profit in a properly finished product and the farmer ought to have it.

CORN IS KING.

While corn is conceded to be the leading crop of America, it is doubtful if even the largest corn growers realize the extent of its production. If all the corn raised in Illinois in 1909 had been shipped to market it would have made 36,540 trains of twenty cars each, extending in one unbroken line from Portland, Maine, to a point in the Pacific ocean 1,000 miles west of San Francisco, or two unbroken lines extending from New York to Salt Lake.

If all the corn raised in Illinois in 1909 had been marketed at the price prevailing in December it would have brought \$201,517,250; an amount sufficient to pay the public debts of seventeen of the largest cities in America, as follows: Chicago, Baltimore, Cincinnati, Detroit, Indianapolis, Kansas City, Los Angeles, Louisville, Minneapolis, Galveston, New Orleans, Pittsburgh, San Francisco, Seattle, Salt Lake City, St. Louis and Washington.

If all the corn raised in Illinois in 1909 had been exported it would have supplied the European demand for seven years. Had the European export for one year only been taken from the Illinois output there would have remained corn enough to allow sixty bushels for every man, woman and child in the state, or three and one-half bushels for every man, woman and child of the 85,000,000 people in the United States today.

Yet Illinois is not alone—there are

twenty-four other states, each of which produces more than 15,000,000 bushels of corn each year, eight others whose individual output each year is in excess of 100,000,000 bushels. No wonder that corn has been crowned king, particularly in view of the fact, as Secretary Wilson has figured it, that the 1909 crop of the value of \$1,720,000,000 (nearly equal to the value of the clothing and personal adornments of 75,000,000) "has grown up from the soil and out of the air in 120 days, \$15,000,000 a day for one crop, nearly enough for two Dreadnaughts daily for peace or war." The gold and silver coin and bullion of the United States are not of greater value. The total annual receipts from every source of every mile of railroad in the United States are not greater. The public debt of the nation could be paid off by two years' corn crops and enough money be left to build, arm and equip 100 battleships the like of which the world has never seen. If put on the market in the aggregate, to buy one year's corn crop would require every cent of the total gold and silver money of Germany and Austria Hungary, while the proceeds divided per capita would give \$20 to every man, woman and child in the United States today.

BROOD SOW CONDITION.

One of the beliefs that is generally set down as a principle upon which successful hog raising is based, is that the brood sow must not be too fat. The question of how fat a brood sow should be is certainly a difficult one for the man who places his main reliance upon corn as a food of support as well as a fatterer or finisher. Not long ago, in a crowd in attendance at a public sale, the question came up and was summarily disposed of by a man whose positive manner stopped all argument. He said, "You can't get a brood sow too thin." Of course he was wrong. Such advice, carried to an extreme, must be followed by results detrimental to the litter as well as to the sow herself. A sow that is in a very thin condition as to flesh does not possess the supply of nourishment necessary for the proper development of her litter, either



HANDICAP 60818 (77597), FIRST-PRIZE TWO-YEAR-OLD AND RESERVE CHAMPION PERCHERON STALLION, INTERSTATE FAIR, ST. JOSEPH, 1909; IMPORTED AND OWNED BY MR. O. O. KEISER, KEOTA, IOWA. SEE ADVERTISEMENT ON PAGE 56.

er previous or subsequent to farrowing, without making a draft upon her own vitality that must leave her in an impoverished and worn-out state at weaning time.

A close observation of the practices of breeders, both of cattle and hogs, with reference to this question, leads to a settled conviction that the thin brood sow idea is a fallacy. The more successful breeders of hogs and cattle are those who keep their breeding animals in a condition of flesh that may be said to be bordering upon fatness. In the case of hogs, these men have no complaint to make as to small litters or lack of vitality in the pigs. There is in fact a tendency toward a greater number of pigs than the sows can raise.

But the high condition of flesh to be found in these successful herds is due to rational methods of feeding, having for their purpose muscular development rather than the laying on of fat. The difference between the methods of these men and those of the men who argue in favor of thin sows is that the former feed with reference to a specific purpose, while the latter feed without purpose.

It is probably true that for the man who feeds corn alone, and confines his hogs to a restricted range, the thin sow will be the less unprofitable. It is simply making the best of a wrong system. But the system is harmful for both present and future. The well-kept brood sow will give a greater profit, year after year, than the one that is half starved half the time.

A well-kept brood sow is one that in the first place has housing that is comfortable at all seasons; that has access to a good pasture at all times, that is given a food supply adapted to growth and development of bone and muscle, and that receives such attention as to be reasonably protected from the attacks of disease.

THE FARM GOLD MINE.

It is always in order every season of the year to discuss certain phases of the farmyard manure problem. The manure pile is referred to in a recent contribution from a subscriber as "The Farm Gold Mine." This is what he says:

That is what a good pile of barnyard manure is—a gold mine for the farmer who owns it. There is not much danger that a farm on which this is seen will run down. It is the source of wealth, of soil preservation, of resource for the future. Not always do the farmers of this country realize just what a help it would be to them if they took more pains to save and add to the manure heap; and this is just the season to do it, while the stock is in the barn and eating corn, hay and other farm crops.

There is no better way to keep barnyard manure than to have a covered shed for the purpose. Startling losses come from storing this kind of fertilizer against the side of the barn, often under the eaves of the building. Every time a pile of manure is wet this way a chemical action is set up, the force of which is increased later by the sun's rays pouring down upon it, which take a large percentage of the goodness away. It passes off in the air or leaches away in little rivers, to enrich narrow strips of land below the barn, but doing little for the farm itself.

All this is saved by having a covered shed. Here the manure may be spread evenly, the horse manure, the hog manure and the cow manure all put in together, thus saving all. We all know that if kept by itself, horse manure will burn and spoil in a great measure.

But if we cannot have a covered shed, what then?

There is a growing practice among the farmers of this country to draw manure out as fast as it is made. A wagon is kept standing either in the stable or close by, so that once to be two or three times a day, the manure may be thrown directly upon it and then hauled out to the field where it is to be used. Two advantages come from this method. The work is done when other farm labor is slack, so that when spring opens it will not be necessary to stop all business and spend a week or so hauling manure, as used to be the case; and then, whatever leaching there may be in consequence of storms, will only carry the liquid manure down a little farther into the earth. This is a good plan, with the exception that where the land is pretty steep the rain will carry a good deal of the value of the manure off when it is cold enough so the ground is frozen hard. Then the liquid manure cannot get into the earth, but runs off down the hill.

It is estimated that a horse will make, in the course of a year, manure worth \$27, a cow \$20, a hog \$8, a sheep \$2. Knowing the number of horses and cattle we have on the farm, from these figures it is possible to make a pretty fair estimate of the value of the barnyard manure produced every year. Reckon this up and see if it be not somewhat startling; and the amount might and should be a good deal larger than it is.

In addition to this plan or method of handling manure, reference ought to be made to the system by which a considerable part of the feeding is

done on the meadows and pastures. Of course, such feeding is mainly practicable where sheep are handled or where steers and hogs are being fitted for market during the winter months. It will require labor, of course, to haul feed to the pastures, but from the standpoint of manure when the feed is hauled the work is completed. By changing the feeding places the manure is placed just where it is needed and as it is left on the surface the maximum manurial value is obtained from it.

THE PURCHASING OF FEEDING CATTLE.

Some time ago there appeared in this paper a communication from a subscriber, who was an extensive steer feeder, dealing with the question of buying feeding cattle by weight rather than guessing them off at so much per head. An instance was given where one man put in a bunch of mediocre steers that cost him between five and six cents per pound and he did this at a time when the same kind of cattle could be bought in the central markets for practically four cents per pound. The contribution in question has brought to his feet another steer feeder who sends the following communication:

I have carefully read the article in a recent issue of your paper headed "Steer Feeders Duped." This discloses no new state of affairs and it is, unfortunately, a rather common occurrence for inexperienced feeders to heavily handicap themselves at the outset in the securing of their feeding stock. Your editorial contention that feeding cattle should always be purchased by weight is sound, and if farmers, when buying feeding stock, would in all cases insist upon this, they would, in nine cases out of ten, pay less for their feeders and in any case would be on the safe side. Doubtless it is occasionally possible for an experienced feeder, provided he is not only a competent judge of feeding cattle, but also thoroughly conversant with values, to pick up his feeding stock in the country as cheaply as he could purchase same on the great central markets. In the great majority of cases, however, the feeder will save money and secure better stock by placing his order with some first-class commission firm that makes a specialty of filling orders for feeders. Firms which are equipped to handle this class of business have their own feeder buyers who devote their entire time and attention to the filling of orders for customers. These men are on the market every day. They are not only experienced judges of the feeding qualities of stock, but are fully posted as to values, and their advice and assistance is of the utmost value to prospective feeders. There is a mistaken idea in the minds of some that, in order to purchase feeding stock on the central markets, the farmer must be present in person. This is entirely erroneous. The great majority of orders for feeding stock are received by mail; the cattle are selected, bought and shipped to the customer ordering without his ever seeing them until they are unloaded at his home station; thus, instead of being a difficult and complicated matter, it is the easiest thing in the world to buy feeding stock at the central markets, where the supply is greatest and the assortment most complete, and all conditions combine to make it the logical source of supply.

By placing his order in the hands of a responsible and competent commission house, the prospective purchaser saves expense of railroad fare and hotel bills and loss of time and relieves himself of all trouble and worry in the matter.

It is almost unnecessary to say that all transactions in feeders at the stock yards are based on actual weight and the price is per pound, so that the purchaser is certain of getting all that he pays for.

Those who read the former contribution will remember that beginners especially were urged to buy their feeding cattle on the basis of their actual weights. Due allowance was made for the men of experience who could estimate weights accurately. The above contribution recognizes the same fact. There are exceptions to every rule and these hold true in the steer feeding business as well as in every other. In the main, however, the weighing of feeding cattle before they are purchased, or at the time they are purchased is a good rule to follow.

DISTANCE APART OF DRAINS.

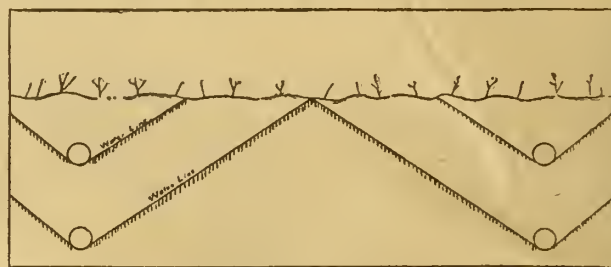
We have frequently said that so much depends upon the character of the soil that it is very difficult to give specific advice as to just how far drains should be placed apart. A southern experiment station has recently published a bulletin dealing with the question of farm drainage and on this phase of the subject, which in reality cannot wholly be separated from depth of drains, the bulletin says:

Drains should be sufficiently close together to remove the surplus water and lower the water midway between them. Water flows much more freely through coarse, sandy and loamy soils than through close clays, hence the more open the soil and subsoil the farther apart can the drains be placed. The deeper the drains are placed the

lower do they make the water table with a given distance between drains. Drains do not lower the water table to the same level at all points. Close to the drains it is lowered to the depth of the drain, whereas at the point midway between drains it may be several inches or even feet higher, depending upon the openness and permeability of the soil to water. The water table is thus formed into a series of curves, the end of each at the level of the drain and the crest approaching the surface of the soil. Therefore, the deeper the drains the farther apart may they be placed without danger of bringing the crest of the water table too near the surface.

Experience has shown the following distances to be most favorable: Thirty to forty feet apart in the compact clay soils, forty to seventy feet on average loams, seventy-five to 100 and even 200 feet on open prairie loam, and land with very open subsoil or high per cent of sand. A safe distance on the average loam soils is from forty to sixty feet where the depth is three feet.

Four feet is considered deep drainage, three feet medium, and two and one-half



feet shallow drainage. In general, three feet is a safe distance, but on some soils containing very thick and close hardpans it is safer to lay tile at two and one-half feet, if such a depth will keep them above this impervious subsoil.

Within reasonable limits, drains should be placed as deep as possible, provided that the water can readily penetrate the soil and reach them. In certain soils the fourth foot may be so difficult to dig that it may cost as much as the three feet above it, in which case it would probably pay better to use a three-foot depth than four.

In some instances the land is too wet in early spring only, while later the water table lowers sufficiently through natural causes. In such cases depth of two and one-half feet are usually sufficient.

The presence of a layer of sand or gravel below an upper more impervious layer is usually of great benefit to tile drainage. In such a case it is usually unwise to place the tile so low that the water table is lowered into the layer of sand or gravel, as such soil has poor capillary power and will not readily transmit to the soil above.

In draining potholes, it is often necessary to place the tile five to six feet deep at the neck in order to secure sufficient fall to remove the water from the lowest places.

It will be seen that even from this data much is left to the judgment of the man who is compelled to drain tile and in reality that is the status of the whole matter. It is entirely practicable to put in only a partial system in the beginning, though, of course, provision must be made to care for all the water from lateral drains. In other words, the main drains must be made large enough to care for all the water from the laterals, but it is not essential to put in a complete system of laterals in one season. By placing them say 150 to 200 feet apart and then testing out the matter a considerable saving may be made if tiles that distance apart will remove the water and, on the other hand, if they are not close enough it is then simply necessary to put another line of tile between each two lines that were first put down.

PERSISTENCY OF HOG-CHOLERA GERMS.

The following communication has been received from a subscriber at Oelwein, Iowa:

I would like to know if there is any method of bringing about the complete eradication of hog-cholera germs around one's premises. I have had cholera on my farm more or less for the past five or six years and next spring I intend to tear down my old hog houses and build new ones. I intend to put the hogs in the orchard during the coming summer and will plow up all of the ground they have been pastured on in recent years. Now, in view of this, I would like to know if the germs of this much-dreaded disease will persist under these circumstances and if the disease is liable to spring up at any time in the future among my hogs?

We have at hand a bulletin published by the national department as late as September 15, 1909, dealing with the question of hog cholera in which this very point is briefly touched on. The author, Dr. M. Dorset, speaking on this phase of the subject says:

After hog cholera has visited a farm, the lots, hog houses, feeding troughs, and implements used for cleaning have naturally become contaminated with the germs of the disease, and if new stock is placed in such yards soon after these were occupied by sick hogs the new hogs are very likely to contract the disease, but if such yards are left unoccupied the germs will die out after awhile. Unfortunately it is not possible to tell with certainty just how long a time is

required for these germs to die out, this uncertainty being due to the fact that conditions on different farms vary widely, and also because the weather conditions, which have an important influence upon the vitality of the hog-cholera germ, vary from time to time and in different sections of the country. In view of this uncertainty it is safest to wait as long as possible before placing new hogs in lots that have been infected. Such premises should not be restocked sooner than three months after the last hog has been removed. Before re-stocking, the premises should be cleaned and thoroughly disinfected in the manner described under the heading "General Preventive Measures."

It seems that this expert is not in a position to say definitely how long the cholera germ will persist under farming conditions. Of course, it is out of the question to disinfect anything but the sheds and houses in which the hogs have run, though if this is done thoroughly there is little danger of

disease starting up again in a herd after a few months. Germs of that character cannot withstand the effect of sunshine so that there need be but little worry over the possibility of the disease spreading from the pastures. The fact that some swine breeders seem to

have more than their share of hard luck by having their hogs die each year is not so much due to infection from inside sources as from general conditions and surroundings. Unless hogs are kept in good condition so they are constitutionally strong there is always danger of them being swept away by disease, the germs of which get into the herd through the ordinary channels from outside sources.

SIX SPLENDID PAPERS FOR \$1.50.

The rare opportunity to secure six standard, high-class and authoritative periodicals at exactly one-half price is being embraced by thousands of readers of The Homestead. The offer still remains open and those who have read the last two issues of this paper know the particulars and the manner in which it may be taken advantage of. The offer is simply this: For \$1.50 the following six splendid periodicals (each a leader in its respective class and each occupying a separate field), will be sent one entire year: The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. These six papers supplement one another, making a complete and comprehensive list of publications of interest and value to every member of the farm household. No better selection could possibly be made. Each is high grade, practical, interesting and instructive. Remit \$1.50 today to The Homestead, Des Moines, Iowa, and your name will be placed on the six mailing lists for one entire year. Do not delay; the time to take advantage of this offer is right now, today. You cannot devote the next five minutes to any better purpose than to sending in your order. You will have reason to be glad of it every day of the ensuing year.

A peculiarity in farming operations noticeable in this locality is that of the unusual number of farms that are being managed by "hired men," says a daily paper published in Iowa. There are ten or a dozen of these places within a few miles of this town. The owner of the farm moves to town, leaves the stock and outfit on the place, employs a family to operate it, and everything goes on as before. The wages paid are said to be \$35 to \$40 per month with the source of milk and butter furnished together with the privilege of raising poultry, etc. The plan must be mutually advantageous, as the owner of the farm generally manifests no disposition to change his methods and the hired man usually soon places himself in a condition that enables him to rent a farm and stock it himself.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

Don't forget that "reading maketh a full man," but it never makes a man full.

Those who attend a farmers' short course will have a chance to learn some book farming, also a few things that are not written in books.

We are feeding corn fodder to our milk cows once a day and find that there is too much corn in the bundles to feed them whole. This makes a little husking every day which is not a pleasant task, but it is several laps ahead of husking corn in the field, when there is snow on the ground.

When everything is taken into consideration the most expensive water system on any farm is the one where it is necessary to cut a hole through the ice every day in order to let the cattle and horses slake their thirst.

Farmers as a class are usually regarded as honest, almost too honest sometimes, but occasionally one falls by the wayside. Not long since I read of one who made a practice of mixing lard with his milk in order to increase the test for butter fat. Anyone who can steal like that ought to be in the class with those "higher up."

"He who runs may read," but the one who wishes to keep up with the times must be able to both run and read to his own advantage.

It may be that some winters are open at both ends, but generally they are long and pretty tight through the middle.

I have made several tests of my seed corn for next year. The poorest result was from the butts of the ears, 51 per cent. The best results from corn picked at husking time was 83 and 86 per cent. Early picked seed and corn taken from the shock was more nearly perfect.

The prizes offered by the different corn contests are worth trying for and the best part of it is that if anyone does

What Style of Drill is Preferable?

There is a wide difference of opinion even in same neighborhoods as to what style furrow opener is most preferred on a grain drill. One man will say that he prefers a shoe or runner, another a single disk, and still another a double disk. The Kentucky Drill, manufactured by The American Seeding-Machine Co., Incorporated, Richmond, Ind., is an interchangeable grain drill. All that is necessary is to change the furrow openers—either style, single disk, double disk or shoe, interchanging on the same machine. It matters not what style drill a farmer prefers, or in what section of the world he lives, he can get a Kentucky Drill—"good as wheat in the mill"—that will do his work as it should be done. The feed is really the "heart" of a grain drill, and the Kentucky hasn't got heart disease. The furrow openers play an important part, because they make the seed trenches; therefore, whatever type is selected the Kentucky can always be relied upon to make the most perfect seed trench. It is fully and freely guaranteed—nothing misleading about it—just plain English—a warranty that means protection to the purchaser. Send to the manufacturers for a copy of their Kentucky catalogue, then go to your implement dealer and tell him you want to see the Kentucky Drill.

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(Largest and Best Equipped Automobile School in America)
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his best to raise prize-winning corn the increase in his corn crop will sometimes be worth more than all the prizes in any one contest put together.

Before many moons the census taker will be among us asking all kinds of questions about our business. He will want to know all we know about our business and will ask for some things we do not know. Some of us will be liable to think that he is asking for things that is none of his business.

The government officials have discovered a "leak" in the sugar barrel where millions of dollars in revenues were lost. The news of such leak is interesting to taxpayers whether they pay direct or indirect taxes. Perhaps they will take a day off and hunt more leaks.

I am always impressed by the amiability of well-bred animals. I have many times put the harness on a draft colt for the first time and have had him hitched to the wagon or to the disk in two or three hours. Recently I had occasion to ship a two-year-old pure-bred bull and I had to haul him nine miles in a sleigh. Although the roads were not the best we had not gone more than a mile when he lay down and peacefully began chewing his cud. I would not expect that kind of conduct from a scrub.

They say that a real fast dog can run a short distance at the rate of forty-five miles an hour. Several times I have caught neighbor's dogs in the pasture with our sheep and when I tried to get near them with a thirty-eight caliber rifle it seemed to me that they exceeded that speed, almost by half. All I could see in the field was a yellow streak and I want to say a most contemptible kind of a streak to have in a man's pasture.

We have rather an extensive water system on our farm, but I have not yet solved the problem of keeping certain pipes from freezing in the winter. We have a ninety-barrel tank placed upon a brick foundation and we have wrapped the conducting pipe in a dozen different ways, but in severe weather the water freezes. Last fall we surrounded it with eighteen inches of sawdust, but we have only to repeat the same old story. This is beginning to keep the Furrows man awake at night, so if any one can offer any suggestions it will be in the interest of humanity to send it in.

The population of the United States is only 5 per cent of the world's total population and yet this country raises 43 per cent of the corn, oats and wheat in the world. The best part of it is, I help to raise some of that corn, oats and wheat and practically every reader of this paper assists also.

One of the speakers at the county institute advised his listeners to keep their poultry in light houses. I wonder if he thought we were raising sea fowls?

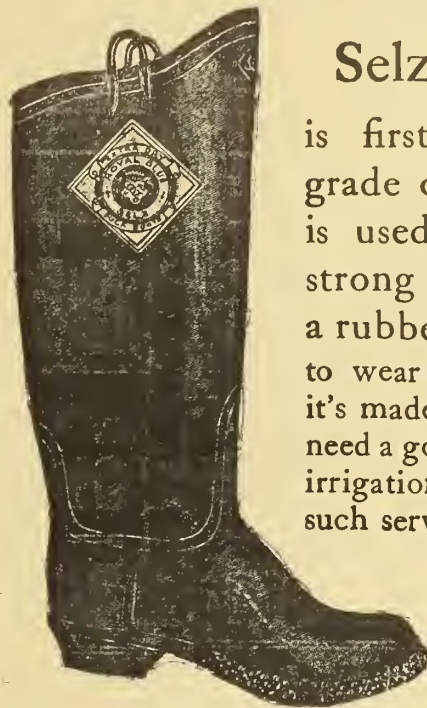
A few dozen eggs go a long ways towards paying the grocery bill now, the woman makes a few go a long ways in the kitchen and it takes a long time for the hens to lay a few.

There was plenty of ice in December this year—no, last year. One of my friends who had an ice house started (in his mind) was wishing, the last time I saw him, he had it finished in time to fill at once. Too many of us have ice houses only in our minds.

I never was so favorably impressed with the winter use of the road drag as I was the other day, when riding over a road that had been dragged smooth just before the freeze. For three weeks this road was smooth as a floor, while undragged roads were as rough as the highway to wealth.

Conclusions sometimes reached by city farm writers are often amusing. In attempting to prove that every

A first-class rubber boot is the only kind that pays to buy



Selz "Irrigation"

is first-class; the highest grade of pure Para rubber is used; it is made extra strong at the points where a rubber boot is most likely to wear out. It stands service; it's made especially for men who need a good rubber boot; farmers, irrigation men, any who need such service.

Dealers sell it; ask yours; if he doesn't, send to us direct.



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When You Buy a Plow or other implement Get a Harrowing Attachment FREE

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Our Plows, Disc Harrows and Cultivators are sold and guaranteed direct to the farmer from our factory, at a big saving in price. Don't forget, they are guaranteed absolutely to be the best implements made in every detail—your money back if they are not.

OUR HARROWING ATTACHMENT OFFER
An American Harrowing Attachment on any sulky or gang saves one harrowing, does the work better and adds practically nothing to the draft. You can GET ONE WITHOUT EXTRA COST

when buying American Implements. Write us for our large Free Implement Book with Factory-to-Farm prices and full particulars of Free Harrowing Attachment offer.

Write now. The Free Offer has a time limit.

AMERICAN PLOW CO., Mfrs. of the Well-known American Gang and Sulky Plows, 2315 FAIR OAKS AVE., MADISON, WIS.



ROSEINE PENNSYLVANIA KEROSENE

gives one-third more light; increases home comforts; no odor; no smoke; no explosive gases. Ask your dealer for Roseine Penna. Kerosene. Don't ask him for his "best oil" for that may be just common, dangerous oil that gives a poor, yellow, eye-straining light. If he don't have Roseine, he will get it for you if he values your trade. If the oil he sells you for Roseine isn't the best kerosene in the world, it isn't Roseine. Always shipped in yellow barrels bearing our trade mark "Roseine." Roseine is the ideal incubator oil.

farmer lost a great deal by not pasturing his stalk fields, one of the city pen pushers wrote that even the most careful husker left from two to five bushels of grain in the field behind him for every acre husked.

If we could all conform our desires to the size of our pocketbooks what a contented world this would be! And would it not also become a lazy world?

It is a good idea not to be against anything you know nothing about. Investigation should come before prejudice. I once heard a farmer say he wouldn't give five cents a dozen for the best automobiles made. A short time ago he rode two miles in one. Now he expects to buy one as soon as he sells the next bunch of hogs.

I know of a little neighborhood, a section of country that has seemed to have been blind to this progressive age. Going there is like walking backward on the road of time, and yet the people are satisfied with their present condition and think there is no place like theirs. They have no modern machinery, have not improved their manner of farming in years; in short, theirs is the way we all farmed twenty-five years ago. They cannot see themselves as others see them, no more than can we.

The other day I saw a man dumping manure on his field in small piles. Next spring, shortly before plowing, he will go out with a fork and spread that manure. His idea in piling is to

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keep the manure from leaching away. If it should leach, where would it go? Into the soil, where wanted. Piling manure may be all right on steep hillsides, where the drain goes to another's land, or in a sandy, windy country, but there's no excuse for it on comparatively level, clay land.

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THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

THE SEED CORN OUTLOOK.

This paper is not inclined to shout "wolf, wolf," when there is no wolf. While we do not desire to unduly alarm our readers about the prospect of the seed corn to be used in planting the 1910 crop we are concerned about the matter. The subject is up now and it will be up for discussion many times before next year's crop is in the ground. The following communication from the great International Harvester Company shows that commercial companies are concerned about the matter:

During the past months we have been receiving reports from our agents, traveling men and dealers concerning the conditions of corn this fall. From these reports it appears that unfavorable weather has greatly impaired the prospects for securing the right kind of seed corn for planting next spring.

We are informed that in many districts while the corn was still in the field, late and protracted wind and rain storms were prevalent over the corn belt, injuring the ears more or less. Now it is believed that such unfavorable conditions would greatly lessen the germinating power of the kernel if used as seed corn; in fact, as many of the farmers pick their seed corn from the best ears on the stalks standing in the fields, it looks as though many of them might either be entirely without seed corn or be obliged to use a very inferior kind. From all gathered, if this should prove to be the case, care should be taken to keep from jeopardizing the prospects for a bumper crop in 1910.

These facts have been so reiterated to us and the evil effects of the late rain storms seem to be so widespread that we draw your attention to the matter with an idea that through your paper you can go more deeply into the subject, bringing it to the attention, not only of your readers for their discussion, but also to the experiment stations and agri-

cultural colleges, in order that some steps may be taken to warn the farmers against planting corn with diminished germinating power, and possibly put in their way opportunities for providing themselves with proper seed for next year.

It only remains for each individual farmer to discover for himself the germinating quality of his seed supply. This ought to be done early because in the very necessity of the case the firms that make a specialty of handling good seed corn will not be able to supply the demand at anything like reasonable prices. Some time ago we stated that by a system of testing it might be possible to find good corn even out of the crib and we were criticised for taking that stand. We must still insist, however, that it is a wise thing to do. Conditions may have been such as to impair the germinating quality of 75 per cent of the entire supply of corn on a given farm while the balance, even though grown in the same fields may be absolutely hard and sound and uninjured. This is due to the fact that a certain percentage of the crop matures anywhere from a week to ten days or two weeks ahead of the general crop, and it is the hard corn that must be found this year, and it can only be done by getting after it and testing out each individual ear so that the unsound corn may be discarded and sound corn kept for seed.

TANKAGE CANNOT SPREAD DISEASE.

The following communication has been received from a subscriber at Seaton, Ill., concerning the possibility of cholera being introduced by the feeding of tankage:

I have been much interested in what your paper has had to say regarding the feeding of tankage to hogs, and as I had never fed any before this fall I concluded to try it. I have about eighty-four head of shoats and sows and have been feeding them about all the corn they would clean up since December 1st and when I commenced feeding the new corn this fall I was very careful to get them used to it gradually. About December 1st I commenced feeding them tankage and have been feeding about one-quarter pound per day to the hog.

About one week after I commenced feeding tankage one of the shoats became sick, refused to eat, his breathing was somewhat as though he had the thumps, and in about a week he died. The next week another shoat became sick in almost the same way, the trouble seeming to be in his lungs or somewhere in his breathing apparatus, and this last week another has become affected in the same way.

Now, I realize that when a person tries any new feed for hogs, if they get sick he is very apt to lay the blame on it. Is it possible that these shoats have contracted tuberculosis from eating tankage? The agent from whom I purchased the tankage assured me that it passed through 220 degrees F. in the manufacture, which would kill all germs that might be in it.

I have heard of others whose hogs have taken sick after commencing to feed them tankage and they laid it to the tankage. I was very much pleased with the way my hogs have been doing and thought the tankage was all O. K. until this last hog became sick and I did not know what other reason to give for their sickness, as I have taken good care of them, dipping them this fall and supplying them with plenty of dry straw for bedding in well-ventilated sheds this winter.

I would appreciate it if you would discuss the manufacture of tankage and the possibility of its having disease germs in it, in your paper, as I am somewhat ignorant concerning these points and possibly others as well.

It may be said that the process of manufacturing tankage absolutely precludes the possibility of disease germs escaping and being distributed on farms through the medium of the food. It is not necessary to describe the method of manufacturing tankage in order to emphasize this point. Experiment stations have been conducting feeding tests to ascertain the value of this food and in practically every instance the results have favored its use so that the conclusions arrived at by the station workers amounted to nothing more or less than a recommendation of this packing house by-product. As to what ails these hogs we are unable to say, but it looks very much as though they had been fed a little too much corn and that indigestion resulted. In a large bunch of hogs it is not uncommon to experience a loss of two or three as a result of troubles with the digestive tract, or lung trouble brought about by the hogs getting chilled. Hogs are not any too careful about selecting their sleeping quarters and it often happens that of a warm evening they will make their beds outside while a lowering of temperature in the night will result in lung trouble of some sort—a heavy cold to begin with, but often leading to complications.

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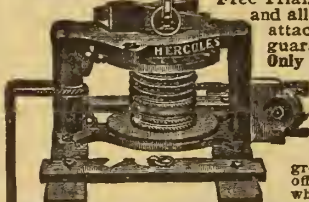
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ARE HIGH PRICES DANGEROUS?

An Illinois subscriber who recently sold his hogs at eight cents a pound sends the report of a hog sale of sixty-two years ago, found among the papers of a pioneer resident of the state. The record is as follows:

Received, Macomb, Dec. 15, 1847, of Andrew J. Hainline, on account seven hogs weighing 1,828 pounds net:

218 pounds at 1 3/4 c.	\$ 3.81
485 pounds at 2 c.	9.70
1125 pounds at 2 1/4 c.	25.30

Total amount \$38.82
Payable one-third 25 Dec., one-third 25 Jan. and one-third 1st of March; deducting account for what goods wanted by Hainline.
N. P. Tinsley.

The subscriber adds that the sale of 1847 was made before the days of the great corporations against which we hear so much complaint nowadays. He points out that the corporations are a prominent factor in making possible eight-cent hogs today.

In 1847 it would have cost hundreds of dollars to deliver a car load of hogs to Chicago, as they would have been hauled by wagons. Now one of these "soulless corporations" will do it for about \$30. The railroad delivers them into the hands of the Union Stock Yards Company, another great "soulless corporation," which sheds, waters and feeds them, and has to be paid for it. The corn at \$1 per bushel, which the shipper willingly pays, well knowing that every bushel the hog eats in the pen will bring him \$5 when they go over the scales.

The commission firm that sells them and remits the proceeds is another "soulless corporation," and still another the packing firm, the greatest of all "soulless corporations," that buys the hogs, butchers them and hunts a market for the products, have to have a slice of the hogs as they go through their hands, and the incorporated banks that handle the money they bring; and after being "robbed" by all these corporations the farmer can still get eight cents a pound for his hogs.

What is best for the farmer? Submit to it or go back to the "good old days" and sell our hogs at two cents as Mr. Hainline did and take store goods for part pay?

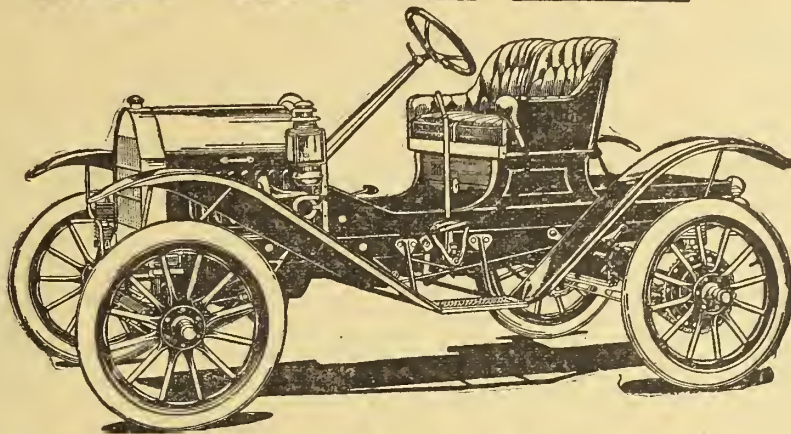
The point brought by the record and comment is that the farmer is receiving better prices for his produce today than ever before and that he is not being ground down by "the relentless heel of the corporations," as partisan campaigners so glibly assert. It may be argued that the purchasing power of a dollar was greater in 1847 than it is today and that the same necessities of life may have been procured for a quarter or even a tenth of what they cost today, but the fact remains that invention and co-operation have made it possible for the farmer to raise his produce by the expenditure of less money and less labor and to market it with ease, in haste and without loss by the wear and tear of a long, hazardous trip across country. The farmer has entered into a co-partnership with the railroad man, the commission man, the city jobber and the banker and has to thank these men, individually and collectively, for larger and surer profits. He is less at the mercy of the caprices of the public and the manipulations of the market than any of his business partners, for he is the original producer whose output must be had in order that the world may eat and be perpetuated. His price must be paid, even if the commission or the profit of the others is cut down.

The fact that the farmer is receiving such high prices is looked on in some quarters as evidence that the present good times cannot long continue. A recent convention of farmers in Missouri was addressed as follows:

A few years ago the products of the farm were selling too low for the producer to make a living. Now the prices are at the other extreme, and I fear for his prosperity. Think about the man who lives on a salary in town. He is the one who must use the farmer's products. How many eggs at thirty-five cents a dozen can he eat? When bacon is thirty cents a pound, butter forty cents a pound, choice beefsteak almost as high and flour more costly than recent years, the man who has a regular salary that does not increase as prices go up can barely live. The high price of meat will mean that Americans must not eat meat. When any nation ceases to eat meat, it has never been known to return to the habit. The destruction of the meat demand will result in injury to the farmers. What they need is a reasonable market price all the time for their products.

The speaker did not point out, however, what substitute for meat and butter and potatoes the city man on a salary is going to use and still live. The fact is, the world must have the product of the farm, it cannot get along without it; no substitute for natural food has ever yet been invented and none probably ever will be. The city man on a small salary must cut down on his amusements; he must walk to and from work, he must deny himself personal comforts, but he can-

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You can use the *Brush* many times every day for work that ordinarily would require a horse and buggy or a team, and, further, it will provide you and your entire family a pleasure vehicle in which you can take many trips and go many places you otherwise could not.

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Its spiral spring suspension is found on no other car and the *Brush* rides easier than any car, big or little, at any price. Its single cylinder, 10 horse-power motor, with its new balanced gear, is quiet and free from all vibration. Speed up to 30 miles an hour is easy, faster if you specify special gearing.

Its brakes are strong enough to literally "stand it on its head." The flat deck in the rear is suitable for carrying heavy loads, and this space can also be used for a double rumble seat, making it a practical four-passenger car.

Economy—No Frills

No car at any price can go so far on one gallon of gasoline. It has shown in tests as high as 41 and a fraction miles per gallon, and its oil consumption is correspondingly small.

Every part of the *Brush* is easily accessible—no trouble to keep it in perfect order.

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Write to-day, or, better still, fill out the coupon and let us tell you all about it.

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isn't afraid of other automobiles, and doesn't have to be hitched up or tied to a post. It is just the thing for the women and the young folks.

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We have hundreds of letters from users in all parts of the country telling us what good service they are getting from *Brush* cars. They tell us no hill is too steep, no road too muddy or sandy to ever worry it.

Mr. C. A. Puarica, Portland, Oregon, writes: "Measured by what it can do and does do in the way of negotiating rough roads and hills with a big load, the *Brush* is the highest power car I ever saw."

Mr. E. C. Peterson, Warsaw, Neb., says: "It runs smoother and rides easier than any car I have ever been in. It is remarkable how little gasoline it takes. I have climbed every hill I have come to."

J. I. Lamb, La Crosse, Wis., writes: I have found the *Brush* that I purchased of you last Spring to be all that you promised. Easy to handle, no trouble to take care of and very economical to run. I feel perfectly safe in recommending the *Brush* to anyone who wants a runabout.

not starve himself to death and he knows that the staple foods are the cheapest in the long run. Producers of fancy food stuffs may suffer from high prices, but producers of butter and eggs and meat and vegetables are not suffering and will not suffer for a long time to come. The farmer is in no danger of being led to financial destruction because of getting good prices for his produce.

To Teach Farm Wives to Cook.

The teaching of domestic science on a broad scale may be undertaken by the federal government as the result of representations that have been made to congress by the National Pure Food Association, says a daily paper. This organization wishes the govern-

ment to conduct investigations of the best methods of food preparations and dispense information and instruction upon the subject as done on matters pertaining to crop cultivation.

Miss Emma C. Sickells, secretary of the association, appeared before the committee on agriculture and asked that an appropriation be made to provide for such investigations and the dissemination of the information obtained. The senate committee already has voted money for such an appropriation.

Miss Sickells pointed out that the government is doing much for the farmers through the department of agriculture, but practically nothing for the farmers' wives. The latter need instruction in the selection and preparation of foods quite as much as their

husbands do in the handling of soils and crops.

By the end of the brief minute taken to read this paragraph the nations of the civilized world will have struck 3,000,000 matches. This is the average for every minute of the twenty-four hours of the day. 7,000,000,000 is the enormous number for the entire year, and those living under the American flag are said to be responsible for the consumption of one-half of this amount.

THE SECRET.

Rough on Rats fools the rats and mice, but never fools the buyer. The secret is, you (not the maker) do the mixing. Take a hint, do your own mixing; pay for poison only, then you get results. It's the unbeatable exterminator. Don't die in the house. 15c., 25c., 75c. E. S. Wells, Jersey City, N. J.

ENGLISH FARMING METHODS



Notes Comparing British and American Agricultural Methods Made by a Grain Belt Farmer During the Past Summer Months---The Typical English Farmer is Nearly Always a Renter



ONE TYPE OF A BROADCASTER FAMILIAR IN ENGLAND, BUT WITH WHICH AMERICA IS NOT FAMILIAR.

HAVING lived all my life on a grain-belt farm I found it of much interest on the occasion of my first visit to England, Ireland and Scotland last summer to make comparisons between the British way of farming and the American. I have returned to the American grain belt more firmly convinced than ever that it is the garden spot of America, but at the same time I must admit that our British cousins can teach us a few things about farming. At any rate, it will do us all good to consider their methods and results.

The English farmer believes in and practices rotation in crops. Each field is small and is sown to a different crop each year. Roots are always one of the big crops. A poor oat or wheat crop is of small concern, but a failure of the beets or turnips is a serious thing. Little economies have so long been practiced as to become a second nature. Everything on the English farm is used and saved. Passing through the country you see the manure piles carefully stacked up, and there is an air of neatness about the farm yard which is foreign to American farms. Many of the farm houses are under the same roof as the barn and in most of them the floors are made of stone.

The farmer is nearly always a renter. He prefers to work someone else's farm rather than to own one. Rents are high, from twenty shillings per acre up, and as a result the tendency is from the country to the city, and the cities are always overcrowded and there is always a great unemployed class. Some day the middle-class Englishman will get his rights and farming will be something more than a pastime for the few.

Pigs are not commonly raised in England. A farmer may raise one or two, and it is not an uncommon thing for the housewife to give each pig a bath once a week. If the farmer has a shoat to sell it is washed and its bristles combed preparatory to being taken to the market. The neatness of everything here is a surprise to everyone. The average English woman is always scrubbing the doorsteps, the sidewalk, the kitchen floor, in fact the entire house. Cleanliness is next to Godliness in a real sense. There is a neatness about everything around the English home and along with the neatness there is a love of flowers, which delights

every visitor. In every home, in every window, in every nook, you will see flowers. Gardening is an art in England. At every book store or stall there are books on gardening, and in all railroad stations weekly gardening papers. Even the big London dailies run a gardening column. It matters not where he lives, the Englishman is a gardener.

And the Englishman loves sheep. Travel where you will there are sheep somewhere in sight. In the city parks they use sheep in the place of lawn mowers. In Hyde Park, London, or in the parks of Edinburgh you will find children at play and sheep grazing peacefully near by.

You would think that there would be much emphasis placed on poultry raising, but the reverse seems to be the case. It is popularly believed that chickens are hard to raise and I read several articles in England which prove that poultry cannot be raised with a profit, yet eggs are so high that they are an impossible diet for many. They sell a chemical preparation which takes the place of eggs in cooking and seems to be largely used.

An English hay-field is an interesting sight. It is always small and there are always a goodly company of people in it. In fact it takes a host to make hay. If it is in the more remote districts, the whole family will have a part in the work. The hay is turned and handled again and again. Of course hay-making is difficult in a land where there is so much rain, and of course Englishmen always make fine hay. To an American, however, the process seems to be slow and clumsy. Were it not that labor is cheap, they would not be able



THE HORSES OF ENGLISH FARMERS. THE CHAIN TRACES AND ROPE LINES ARE QUITE UNLIKE ANYTHING USED IN AMERICA.

for planting. The winters are so open that from January to December this work goes on constantly. As the soil all over England is rather heavy and the plowing is deep, much of the time four horses are used. The carters and plowmen are up at four, and soon after six are in the fields, to remain until nearly five o'clock. A better way than the cumbersome tandem fashion of attaching the horses, with a boy following by the side of the leader to direct and hurry him, has long been shown, but still he clings to the old ways.

The Burns country is interesting to every farm boy. Ayrshire cattle as well as Ayrshire potatoes are known in all parts of the kingdom. I stopped to inquire as to the origin of Ayrshire cattle, but found the history of this breed somewhat shrouded with mystery, and was compelled to rely upon our own American informers. I remember distinctly what several of the American authorities had told me concerning this breed. It is generally supposed that there was a native breed of cattle peculiar to this county. These cattle were improved by certain other stock, introduced from other sections of the island. Some authorities believe that Teeswater cattle, Short-horn, had been introduced into the breed. Other men have credited the theory that the Ayrshire was a composition of the Channel Islands cattle crossed with Short-horns. Still others have told us that the breed had resulted from the crossing of Hereford and Devon blood. Whatever their early history may have been they are today in a class by themselves, fully developed and with well established breed characteristics. The introduction of the breed to America was undoubtedly by way of Canada, and importations were likely made by Scotchmen. The distribution in the United States is not general, for we find the breed confined very largely to the New England and eastern states. There are a few herds in Wisconsin and it is believed that the conditions there are admirably adapted to Ayrshire breeding. However, no marked enthusiasm has ever been noted. The Ayrshire is known for its ability to thrive on inferior land and poor feed better than nearly any other breed. Of course, for grain-belt conditions this is no criterion for the Ayrshire.



ENGLISH FARMS IN THE LAKE DISTRICT, EVERY FIELD HAS ITS NAME, EVERY FENCE IS OF STONE LAID IN CEMENT.

to make hay at all. Laborers of all kinds are wretchedly paid.

Except in the lake districts, where they have four-horse coaches, I never saw one man drive more than one horse. If two are used they are driven tandem, and whether it be plowing in the country or teaming in the city it always seems to take a man for each horse. As a matter of fact, a great deal of the work in both country and town is done by hand. In towns much of the delivery work is done with push carts.

In England the plowmen do almost nothing else the year around than turn up the soil and harrow



SHIRE HORSES PLOWING NEAR STRATFORD-ON-AVON, ENGLAND, WHERE SHAKESPEARE WAS BORN.

Don't Weep At The Ice House.

Some people swell up on "emotion" brewed from absolute untruth.

It's an old trick of the leaders of the Labor Trust to twist facts and make the "sympathetic ones" "weep at the ice house." (That's part of the tale further on.)

Gompers *et al* sneer at, spit upon and defy our courts, seeking sympathy by falsely telling the people the courts were trying to deprive them of free speech and free press.

Men can speak freely and print opinions freely in this country and no court will object, but they cannot be allowed to print matter as part of a criminal conspiracy to injure and ruin other citizens.

Gompers and his trust associates started out to ruin the Bucks Stove Co., drive its hundreds of workmen out of work and destroy the value of the plant without regard to the fact that hard earned money of men who worked, had been invested there.

The conspirators were told by the courts to stop these vicious "trust" methods, (efforts to break the firm that won't come under trust rule), but instead of stopping they "dare" the courts to punish them and demand new laws to protect them in such destructive and tyrannous acts as they may desire to do. * * * The reason Gompers and his band persisted in trying to ruin the Bucks Stove Works was because the stove company insisted on the right to keep some old employees at work when "de union" ordered them discharged and some of "de-gang" put in.

Now let us reverse the conditions and have a look.

Suppose the company had ordered the union to dismiss certain men from their union and, the demand being refused, should institute a boycott against that union, publish its name in an "unfair list," instruct other manufacturers all over the United States not to buy the labor of that union, have committees call at stores and threaten to boycott if the merchants sold anything made by that union. Picket the factories where members work and slug them on the way home, blow up their houses and wreck the works, and even murder a few members of the boycotted union to teach them they must obey the orders of "organized Capital?"

It would certainly be fair for the company to do these things if lawful for the Labor Trust to do them.

In such a case, under our laws the boycotted union could apply to our courts and the courts would order the company to cease boycotting and trying to ruin these union men. Suppose thereupon the company should sneer at the court and in open defiance continue the unlawful acts in a persistent, carefully laid out plan, purposely intended to ruin the union and force its members into poverty. What a howl would go up from the union demanding that the courts protect them and punish their law-breaking oppressors. Then they would praise the courts and go on earning a living protected from ruin and happy in the knowledge that the people's courts could defend them.

How could any of us receive protection from law-breakers unless the courts have power to, and do punish such men.

The court is placed in position where it must do one thing or the other—punish men who persist in defying its peace orders or go out of service, let anarchy reign and the more powerful destroy the weaker.

Peaceable citizens sustain the courts as their defenders, whereas thieves, forgers, burglars, crooks of all kinds and violent members of labor unions, hate them and threaten violence if their members are punished for breaking the law. They want the courts to let them go free and at the same time demand punishment for other men "outside de union" when they break the law. * * * Notice the above reference is to "vio-

lent" members of labor unions. The great majority of the "unheard" union men are peaceable, upright citizens. The noisy, violent ones get into office and the leaders of the great Labor Trust know how to mass this kind of men, in labor conventions and thus carry out the leaders' schemes, frequently abhorrent to the rank and file; so it was at the late Toronto convention.

The paid delegates would applaud and "resolute" as Gompers wanted, but now and then some of the real workmen insist on being heard, sometimes at the risk of their lives.

Delegate Egan is reported to have said at the Toronto convention:

"If the officers of the federation would only adhere to the law we would think a lot more of them."

The Grand Council of the Provincial Workingmen's Ass'n of Canada has declared in favor of severing all connection with unions in the U. S. saying "any union having its seat of Gov't in America, and pretending to be international in its scope, must fight industrial battles according to American methods. Said methods have consequences which are abhorrent to the law-abiding people of Canada involving hunger, misery, riot, bloodshed and murder, all of which might be termed a result of the practical war now in progress in our fair province and directed by foreign emissaries of the United Miners of America."

That is an honest Canadian view of our infamous "Labor Trust."

A few days ago the daily papers printed the following:

(By the Associated Press)
Washington, D. C., Nov. 10.—Characterizing the attitude of Samuel Gompers, John Mitchell and Frank Morrison of the American Federation of Labor in the contempt proceedings in the courts of the District of Columbia, in connection with the Bucks Stove and Range company, as "a willful, premeditated violation of the law," Simon Burns, general master workman of the general assembly Knights of Labor, has voiced a severe condemnation of these three leaders. Mr. Burns expressed his confidence in courts in general and in those of the District of Columbia in particular.

APPROVED BY DELEGATES.

This rebuke by Burns was in his annual report to the general assembly of his organization. He received the hearty approval of the delegates who heard it read at their annual meeting in this city.

"There is no trust or combination of capital in the world," said Mr. Burns, "that violates laws oftener than do the trust labor organizations, which resort to more dishonest, unfair and dishonorable methods toward their competitors than any trust or combinations in the country."

Mr. Burns said the action of "these so-called leaders" would be harmful for years to come whenever attempts were made to obtain labor legislation.

"The Labor Digest," a reputable workingman's paper, says, as part of an article entitled "The beginning of the end of Gompersism, many organizations becoming tired of the rule-or-ruin policies which have been enforced by the president of the A. F. of L."

"That he has maintained his leadership for so long a time in the face of his stubborn clinging to policies which the more thoughtful of the workingmen have seen for years must be abandoned, has been on account partly of the sentimental feeling on the part of the organizations that he ought not to be deposed, and the unwillingness of the men who were mentioned for the place, to accept a nomination in opposition to him. In addition to this, there is no denying the shrewdness of the leader of the A. F. of L., and his political sagacity, which has enabled him to keep a firm grip on the machinery of the organization, and to have his faithful henchmen in the positions where they could do him the

most good whenever their services might be needed.

"Further than this, he has never failed, at the last conventions, to have some sensation to spring on the convention at the psychological moment, which would place him in the light of a martyr to the cause of unionism, and excite a wave of sympathetic enthusiasm for him, which would carry the delegates off their feet, and result in his re-election.

"That his long leadership, and this apparent impossibility to fill his place has gone to his head, and made him imagine that he is much greater a man than he really is, is undoubtedly the case, and accounts for the tactics he has adopted in dealing with questions before congress, where he has unnecessarily antagonized men to whom organized labor must look for recognition of their demands, and where labor measures are often opposed on account of this very antagonism, which would otherwise receive support.

"There is no doubt but what organized labor in this country would be much stronger with a leader who was more in touch with conditions as they actually exist, and who would bring to the front the new policies which organized labor must adopt if it expects to even maintain its present standing, to say nothing of making future progress."

We quote portions of another article, a reprint, from the same labor paper:

"Organized labor, through its leaders, must recognize the mistakes of the past if they expect to perpetuate their organizations or to develop the movement which they head. No movement, no organization, no nation can develop beyond the intellects which guide these organizations, and if the leaders are dominated by a selfish motive the organization will become tinged with a spirit of selfishness, which has never appealed to mankind in any walk of life at any time since history began."

"It can be said in extenuation of certain leaders of organized labor that the precarious position which they occupy as leaders has had a tendency to cause them to lose sight of the object behind the organization. The natural instinct in man for power and position is in no small measure responsible for the mistakes of the leaders, not necessarily in labor unions alone, but in every branch of society. This desire for power and leadership and personal aggrandizement causes men who have been earnest and sincere in their efforts in the start to deteriorate into mere politicians whose every act and utterance is tinged with the desire to cater to the baser passions of the working majority in the societies or organizations and this is undoubtedly true when applied to the present leaders of the Federation. We mention the Federation of Labor particularly in this article because that organization is the only organization of labor which has yet found itself in direct opposition to the laws of the land. There are other organizations of labor whose leaders have made mistakes, but they have always kept themselves and their organizations within the bounds of the law and respected the rights of every other man in considering the rights of themselves and their constituency: whereas, the motto of the Federation is just the reverse, and unless the leaders conform themselves and their organization in accordance with the laws of the land, the leaders and the organization itself must be disgraced and pass into history, for in America the common sense in mankind is developed to a greater extent than in any other nation on earth, and the people, who are the court of last resort in this country, will never allow any system to develop in this country which does not meet with the approval of the majority of the citizens of the country.

"This must have forced itself upon

the leaders of the Federation by this time. If it has not, the leaders must be eliminated. The organization which they head has done many meritorious things in times past and the people are always ready and willing to acknowledge the benefits which their efforts have brought to their constituency as a whole, but at the present time labor organizations in general, and the Federation of Labor in particular, stand before the bar of public opinion, having been convicted of selfishness and a disposition to rule all the people of the country in the interest of the few. The people are patient and awaiting to see if the object lesson which they have been forced to give to these leaders is going to be recognized and if they are going to conform themselves and their future work and actions in accordance thereto."

Let the people remember that comment, "The Federation of Labor in particular stands before the bar of public opinion having been convicted of selfishness and a disposition to rule all the people of the country in the interest of the few."

The great 90 per cent of Americans do not take kindly to the acts of tyranny by these trust leaders openly demanding that all people bow down to the rules of the Labor Trust and we are treated to the humiliating spectacle of our Congress and even the Chief Executive entertaining these convicted law-breakers and listening with consideration to their insolent demands that the very laws be changed to allow them to safely carry on their plan of gaining control over the affairs of the people.

The sturdy workers of America have come to know the truth about these "martyrs sacrificing themselves in the noble cause of labor" but it's only the hysterical ones who swell up and cry over the aforesaid "heroes," reminding one of the two romantic elderly maids who, weeping copiously, were discovered by the old janitor at Mt. Vernon.

"What is it ails you ladies?"

Taking the handkerchief from one swollen red eye, between sobs she said:

"Why we have so long revered the memory of George Washington that we feel it a privilege to come here and weep at his tomb."

"Yas'm, yas'm, yo' shore has a desire to express yo' sympathy, but yo' are over-flowin' at de wrong spot, yo' is weepin' at de ice house."

Don't get maudlin about law-breakers who must be punished if the very existence of our people is to be maintained.

If you have any surplus sympathy it can be extended to the honest workers who continue to earn food when threatened and are frequently hurt and sometimes killed before the courts can intervene to protect them.

Now the Labor Trust leaders demand of Congress that the courts be stripped of power to issue injunctions to prevent them from assaulting or perhaps murdering men who dare earn a living when ordered by the Labor Trust to quit work.

Don't "weep at the Ice House" and don't permit any set of law-breakers to bully our courts, if your voice and vote can prevent. Be sure and write your Representatives and Senators in Congress asking them not to vote for any measure to prevent the courts from protecting homes, property and persons from attack by paid agents of this great Labor Trust.

Let every reader write, and write now.

Don't sit silent and allow the organized and paid men of this great trust to force Congress to believe they represent the great masses of the American people. Say your say and let your representatives in Congress know that you do not want to be governed under new laws which would empower the Labor Trust leaders with legal

right to tell you when to work, Where! For whom! At what price! What to buy! What not to buy! Whom to vote for! How much you shall pay per month in fees to the Labor Trust! etc., etc., etc.

This power is now being demanded by the passage of laws in Congress. Tell your Senators and Representatives plainly that you don't want them to vote for any measure that will allow any set of men either representing Capital or Labor to govern and dictate to the common people, who prefer to be free to go and come, work or not, and vote for whom they please.

Every man's liberty will disappear when the leaders of the great Labor Trust or any other trust can ride rough shod over people and mass their forces to prevent our courts from affording protection.

"There's a Reason."

C. W. POST, Battle Creek, Mich.

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FEED MILLS

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CURRENT EVENTS

DR. FREDERICK A. COOK has mysteriously disappeared, adding circumstantial evidence, at least, to the charge of being a faker. Having lectured and sold magazine and newspaper articles until he had amassed practically \$100,000 within a period of a few months he completed the records of his alleged journey to the North Pole and sent it by his secretary to the University of Copenhagen, which had been granted the privilege of first inspection. Before the secretary and the records arrived Dr. Cook had disappeared. It was claimed by some that he had gone to Europe in order to be near at hand during the examination. By others it was claimed that he had broken down physically and mentally and was in a sanatorium. The University of Copenhagen promptly examined the records and declared they contained no proof that Cook ever reached the North Pole, but were so simple as to be almost childish. About the same time the Explorers' Club of New York reported that it could find no evidence that Cook had ever ascended Mt. McKinley, on which his fame has heretofore rested. One by one the friends have been deserting Dr. Cook, who still persists in hiding himself and in keeping silent. It may be that Cook is being wronged by the insinuations and charges of faking, but in the meantime Peary is being looked on as the real discoverer of the North Pole.

FREDERICK REMINGTON, the famous American Indian painter, died at his New York home during the week. Mr. Remington was the most famous and the most realistic delineator of the red man this country has ever known. He was a fairly wealthy man and not compelled to support himself by his pen and brush, but found a great pleasure in doing the work for which he had a positive genius. He followed the Kipling injunction to "paint the thing as he sees it for the God of things as they are."

EX-PRESIDENT ZELAYA, of Nicaragua, placed himself under the protection of the Mexican flag and was escorted on board a Mexican gunboat to the City of Mexico, without interference by the United States. Zelaya announces that he will remain in Mexico for six months and attempts to justify his assassination of the two Americans, Cannon and Groce, on the ground that they were national enemies and subject to the ordinary rules of warfare. It will be recalled that Secretary of State Knox declared that Zelaya should be held accountable to the United States for murder. No effort was made to prevent his escape, however, although it is highly probable that President Diaz might honor a requisition and surrender Zelaya to the United States. It is not likely, however, that such extreme measures will be taken, as the point desired by Knox was the removal of Zelaya from power and the putting of an end to Zelaya's barbaric, inhuman, and immoral conduct of affairs.

CANADA has taken the first steps to secure a navy, having ordered a small gunboat for which it will pay \$250,000. Great Britain offered to loan her a gunboat or two, also a training vessel, but Canada has a way of being independent even while it belongs to the mother country, so the offer was declined and the Dominion started in for herself. It is proposed to add to the navy nucleus from year to year until the Dominion has a creditable sea-fighting force. Canada maintains peaceful relations with the entire world, but a navy is looked on as advisable as a means of training her young men and preparing to help the mother country in the event of a world-wide war. There are those who contend that long before Great Britain is again plunged in international strife, Canada will be free and independent, but

the movement has not gained much headway recently, the Dominion being prosperous and content with its present form of government.

THE death of Senator McLaurin, of Mississippi, left a vacancy in the United States senate which was filled by the appointment of Col. James Gordon, who will serve until the Mississippi legislature elects a new senator. This will occur in about a week or ten days and Colonel Gordon has pledged himself not to be a candidate, leaving the field open to Governor Vardaman (one of the most rabid, negro-hating of all the fire-eating southerners) and several members of the state's congressional delegation. Governor Vardaman is the leading candidate and having made a strenuous fight against John Sharp Williams for the honor a year or so ago has the necessary experience of local conditions. It is highly probable, however, that a dark horse will win the honor.

A YEAR has passed since the disastrous, death-dealing earthquake at Messina and throughout Sicily. Messina still presents a sorry appearance. Thousands of the residents of the stricken town are still living in the shacks which were built for them soon after the earthquake. The work of permanent rebuilding has progressed but little and many of the people seem content to live among the debris that still is found everywhere. The earthquake gave the United States splendid opportunity to display its practical charity, this country being the first to the relief of the stricken people. But the energy and progressiveness with which relief was forwarded has not been duplicated by the sufferers, who are slow to help themselves now that aid is no longer forthcoming. Still the country has been devastated by earthquake so often that there is little incentive to rebuild permanently.

PICK SOWS FROM LARGE LITTERS.

Recent issues of this paper have contained comment by corn-belt swine breeders upon the relative merit of young and old breeding sows. These communications have quite definitely supported the belief that other things being equal the old sow is preferable in that she is a proven mother and because of maturity better able to transmit the excellencies of the breed she represents. Satisfactory age, however, is but one of the several qualifications of a good brood sow as is stated by Professor Fuller, of the Wisconsin Experiment Station, in the following paragraph:

The sire is often considered half the herd, but, in reality, the females are equally important. The typical sire will transmit his qualities of excellence to his get, but the best results will only be had when he is mated with proper dams. The dam should have the same combination of size and quality requisite in the sire. In conformation she may not need to be compactly built and may be somewhat finer in features and bone. The sow that is quiet and docile in temperament proves a good mother and is careful with her litter. These characteristics can to some extent be judged before the sow has been used. The ideal sow has ten to twelve well-developed, sound teats. Sows occasionally have "blind" teats that are rarely detected before farrowing. The number of sound teats sometimes is considered an indication of prolificacy in the sow.

Prolificacy usually is a family characteristic and it is wise to select a prospective brood sow from a large litter of robust pigs. The strongest pigs of a litter, most suitable for prospective sows, usually nurse from the teats nearest to the front of the udder. The prospective sow may, therefore, be chosen before she is taken from her dam. In selecting brood sows the highest possible standard of excellence should be retained and all others should be marketed for pork.

It almost goes without saying that prolificacy is a prime consideration. To obtain substantial profits in the business of swine raising we must have, to begin with, large, or at least, good-sized litters. In all probability a strong and healthy gilt, picked from a large and well-mothered litter, will prove a good mother of large litters.

\$8,760,000,000!!

That's the Value of Farm Products for 1909—Isn't It Great?

Think of producing on the farms of the United States twice as much new wealth in one year as is represented by all the gold money in the world outside of this country!

No wonder our esteemed friend, Secretary James Wilson, of the Department of Agriculture, is jubilant.

It is a showing that every citizen is proud of, whether he had a hand in the production or not.

The most gratifying story told by these figures is that they represent a gain over the previous year of \$869,000,000.

We are going ahead—going ahead rapidly. That is the best message we gather from this report of our results for 1909.

But, instead of being content with these figures, let us take them only as an indication of what our real possibilities are, and let us use them merely as a mile post in our climb to better things.

Let each of us, for instance, look back over our operations of 1909 to determine whether or not we did our share toward making this showing possible.

We all know that there are about 6,000,000 farms in this country. Did 6,000,000 advance improve, produce more wealth—or did one million, two million, or three million do all of this pushing and improving of methods to make a gain of \$869,000,000 possible?

We ought to stop and think of what has made the gains of former years possible. We must stop to realize that this gain of \$869,000,000 for 1909 is not due to so much more land under cultivation, but has been brought about primarily by better methods of cultivating the same land that has been cultivated before; by better methods of preparing the soil, sowing the grain and harvesting the crops.

Without the wonderful strides made in the development of farm machines, an \$8,760,000,000-crop would be entirely out of the question.

And yet there is room for progress—the rules of 1909 farming are not the rules for 1910. New machines mean new advances and new wealth. Do you keep abreast—are you posted about these things?

About traction plowing—how to plow more acres, in less time, with less expense, for better, bigger returns:

How a good disk harrow will enable you to make better seed beds:

Why it's to your advantage to spread manure the right way—as soon as you get it—instead of spreading it after half its value is gone.

About the money-saving and money-making advantages of having a good, reliable, dependable gasoline engine on your place; how it will help to keep the boys at home; how it will save you a hired man's wages—and how it will more than pay for itself in twelve months:

What the right kind of a cream harvester means to you in increased milk and butter profits—and skim-milk calves:

Why a good feed-grinder means fatter stock:

How greatly to increase the value of the 1910 hay crop by using the right mower, tedder, baler, etc.:

How to know all about harvesting machines:

How to get the most possible profit out of the stalks as well as out of the ears by harvesting your corn in the right way—at the right time:

How to know the ear marks of a good wagon.

If any of these will help you please secure a copy of our book—"Glimpses of Thriftland." That tells the whole story briefly and in verses that you'll like. Then we have some books that are still more business-like—the I H C Almanac and Encyclopedia, and Farm Science. Say which you are most interested in. All are free for the asking.

There is an International dealer near you. He will be glad to see you to hand you one of our new 1910 calendars, posters, catalogues or pamphlets on harvesting and haying machines and tools, and tillage implements, or any of the machines mentioned above.

Yours for a still bigger showing in 1910

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You can see his Thrilling Finish as he strains every nerve and muscle to reach the wire in record breaking time, you can see his driver dismount and look at his watch while thousands of people crowd around, you can see his caretaker force his way through the crowds, uncheck Dan and then throw a beautiful woolen blanket over him to prevent catching cold and

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INTERNATIONAL STOCK FOOD CO., MINNEAPOLIS, MINN.

I OWN THE 5 FASTEST WORLD CHAMPION STALLIONS EVER OWNED ON ONE FARM IN THE HISTORY OF THE WORLD.

On my "International Stock Food Farm" of 700 acres I own Dan Patch 1:55, Minor Heir 1:59½, Directum 2:05¼, Arion 2:07¾, Roy Wilkes 2:06½ and also about 200 head of Young Stallions, Brood Mares and Colts and they eat "International Stock Food" every day. I will be pleased to have you visit my farm at any time and see my horses and their splendid condition. I feel sure that you never saw their equals at any Fair or Horse Show. **ACTUAL TEST IS WHAT PROVES EVERYTHING IN THIS WORLD.** If "International Stock Food" gives paying results for the highest priced horses in the world on my farm it certainly will pay you to use it for all of your stock. Remember that if it ever fails to give your Horses, Cattle, Sheep or Hogs, better assimilation and digestion, purer blood and perfect health with quick growth and fattening that it will not cost you a cent no matter whether you have used one hundred pounds or five hundred pounds and you are to be not only the user but also the sole judge of results. I will leave the entire matter for you to decide and accept your own statement. How the United States Government backs my claims that "International Stock Food" is strictly a medicinal tonic, blood purifier, etc. During the Spanish-American War, United States officials made a special examination and decided that "International Stock Food" was strictly medicinal and I paid \$40,000.00 patent medicine war tax. Can any honorable man deny this evidence? "International Stock Food" and label design is registered in Medicinal Department as a Trade Mark No. 52791 giving it commercial standing and rights as a distinctive

"TRADE NAME" FOR A MEDICINAL TONIC PREPARATION
The United States Government issued me a Trade Mark No. 22886 on the world famous lines, 3 Feeds for One Cent -- as showing how cheaply International Stock Food can be mixed with the regular grain feed -- My label shows a list of the medicinal ingredients used and 250,000 Dealers have sold "International Stock Food" for over 20 years as a medical tonic preparation.



INTERNATIONAL STOCK FOOD FACTORY LARGEST IN THE WORLD

Covers Over a City Block and Contains Over 18 Acres of Floor Space
CASH CAPITAL \$2,000,000.00
ASK YOUR DEALER FOR MY PREPARATIONS

International Stock Food
International Poultry Food
International Compound Absorbent
International Pheno-Chloro
International Distemper Remedy
International Foot Remedy
International Colic Remedy
International Louse Killer
International Louse Paint
International Gall Heal
Silver Pine Healing Oil
International Heave Remedy
Dan Patch Stable Disinfectant
Dan Patch White Liniment
International Worm Powder
International Hoof Ointment
International Sheep Dip
International Cattle Dip
International Hog Dip
International Harness Soap
International Gopher Poison
International Worm Remedy
International Healing Powder
International Quick Blister

ASK YOUR DEALER FOR ANY OF THESE PREPARATIONS and insist on having what you ask for. Beware of many cheap and inferior substitutes and imitations. High Class Dealers Sell My Preparations on my Spot Cash Guarantee to refund your money if they ever fail.

Signed, M. W. SAVAGE, Owner of International Stock Food Co.--and also--International Stock Food Farm

DO YOU EXPECT TO SEE THE DAY WHEN THESE WONDERFUL DAN PATCH 1:55 RECORDS WILL BE EVEN EQUALLED?

DAN PATCH, 1:55 HAS PACED

1 MILE IN	1:55
1 MILE IN	1:55½
2 MILES IN	1:56
14 MILES AVERAGING	1:56½
30 MILES AVERAGING	1:57½
45 MILES AVERAGING	1:58
75 MILES AVERAGING	1:59½
120 MILES AVERAGING	2:02½

DAN HAS BROKEN WORLD RECORDS 14 TIMES

In addition to all these records Dan Patch is proving to be one of the greatest sires of both pacers and trotters in all horse history -- Look up his large official list of standard performers.

Dan Patch 1:55 has gone more extremely fast miles than the combined miles of all the trotters and pacers that have ever lived. Be sure and remember these facts when you think of some horse equalling Dan's marvelous performances.

For seven years Dan Patch has eaten "International Stock Food" every day mixed in his regular grain feed. It has given Dan Purer Blood, More Strength, More Endurance, More Speed and Perfect Health. It is constantly used and strongly endorsed by over Two Million Farmers and Stock Breeders as the greatest Animal Tonic, and has been for 20 years. No other preparation has such strong United States Government and practical stock breeders endorsement, as has International Stock Food.

What Every Farmer Wants

You Can
Get It
Free



Ask for
Book
No. 27

Forty Pages
in Colors

JUST drop us a post card and we will send you, free, the latest edition of our **Corn Book**, containing the best information from the highest authority on selection and care of seed corn. You can get more and better corn without increased cost by following this book. Every page illustrated and printed in colors.

The fact that this book also contains a description of the

Deere No. 9 Corn Planter

the most highly perfected machine on the market, adds to its value.

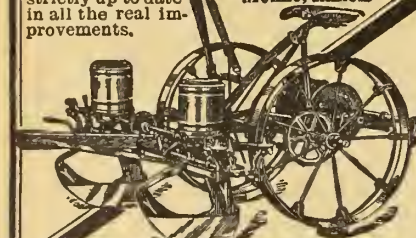
Increased accuracy secured by the famous **Deere edge-selection drop**, means anywhere from ten to fifteen bushels per acre over the old style of machine.

Repeated tests have shown the above increase in favor of really accurate planting.

We have plates for all kinds of corn and other seeds. Instantly changed from hill to drill drop without changing plates.

Fertilizer attachment that distributes either in hill or drill. The illustration shows the regular runner, but stub runner or disc openers may be had on special order. In fact, the **Deere No. 9** is strictly up to date in all the real improvements.

Address
Deere & Mansur Co.
Moline, Illinois



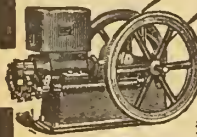
Deere No. 9 Edge-Drop Planter
Highest Accuracy in Drop

WITTE ENGINES

USE GAS, GASOLINE OR
KEROSENE

Are known by a superior standard of construction. 25 years of service has demonstrated their worth. Does work at lowest cost and is always ready to saw, grind, pump, shell or do any farm or shop work.

FIVE
YEAR
BOND
GUARANTEE



We build all sizes in stationary or portable type. Hopper jacket or water tank cooling. Inducements to introduce in new localities. Write stating size wanted.

WITTE IRON WORKS CO.
543 West Fifth St. Kansas City, Mo.

Steel Wheels



WITH GROOVED TIRES
4 in. wide. The Groove protects the heads of spokes from wear, which makes wheel good and strong till tire is worn out. We make plain tire wheels in other widths. We make wheels to fit any thimble skein or straight steel axle. Get our free catalog of Steel Wheels and Low Down Handy Wagons.
HAVANA METAL WHEEL CO.,
Box 47 Havana, Ill.

SAW YOUR WOOD



With a **FOLDING SAWING MACHINE**, 9 CORDS BY ONE MAN in 10 hours. Send for free catalog No. E23, showing low price and testimonials from thousands. First order secures agency. Folding Sawing Mach. Co. 158 E. Harrison St., Chicago, Ill.

CUT ICE

With the **Dorsch Double Row Ice Plow** we guarantee it will cut more than 20 men sawing by hand. Cakes are cut uniform, of any size and thickness. One man and a horse will cut more ice in a day than the ordinary farmer and dairy man can use. You can cut for others and make the price of your plow in two days use. Ask for catalogue and introductory prices.
JOHN DORSCH & SONS 216 WELLS ST., MILWAUKEE, WIS.



DEANE EAR CORN CUTTER.

In 1, 2 and 4 hole size; Slices corn from 1/4 to 2 in.; does it rapidly; just the machine to prepare corn for calves, stock or fat cattle; no waste, they eat it all. Cutter returned at our expense if not satisfactory. Circulars free; write today.

Enterprise Wind Mill Co.,
Dept. 20 Sandwich, Ill.

WHEAT AND CHAFF

BY E. N. BAILEY

I like to see a farmer laugh
When feeding a young bossy calf;
'Tis nice to see him hold the pail
And see that calf's defiant tail
Gyrate.

'Tis sweet to watch that farmer's smile
Just as he's bunted half a mile,
And after that to hear the flow
Of language wafted to and fro—
'Tis great.

Mamma should watch little four-year-old closely and see that she does not get the scissors and clip the cat's whiskers too closely. Little four-year-old children do not look well with glass eyes.

A financier is a gentleman who photographs a dollar, uses the photo in business and saves the dollar to use again. An expert in high finance photographs the dollar twice and uses both photos as collateral. A promoter photographs the photo and then takes a shadow of it to utilize as stock in trade.

The blacksmith needs four elements in his business; fire, earth, water and air. The muskox gets along with three, earth, water and air; fish with two, water and air, and the politician with only one, air. Some of the monopolies want more than these. They want fire, water, air, and the earth with a fence around it, a mortgage on the blue sky, and another on futurity.

Some sensationalist has discovered that twenty-dollar hills are fairly reeking with disease and are a menace to health and life. Unless he proves that the disease is something worse than hubonic plague, smallpox, leprosy, or cholera there will be no trouble to get them into circulation throughout a good share of the country, at the present time.

The chicken house protective league have succeeded in changing the crow of a rooster into a whistle. When the chicken house door is opened in the night the rooster whistles for a dog. Now for a breed of dogs with teeth as long as those in a smoothing harrow, with sickle edge, and one that is strong enough to shoulder a chicken thief and trot into the woodshed with him and keep him until morning.

No, Mary, it Was Not Proper.

A young lady writes to ask if it is proper etiquette for her young man to gouge his ear in church with a husking peg.

It has taken a lot of research to investigate this matter, as no book of etiquette available classifies this particular act, but by following closely the definition of words we come to the following conclusion:

This act, Mary, would come under the head of what the best authorities call "outré." Now "outré" means bizarre, bizarre means grotesque, and we consider your young man as being very grotesque. Grotesque is defined as being fantastic, and fantastic as chimerical. You would not like to have a chimerical man, would you, Mary?

Chimerical is defined as being vain, and who wants a vain man? Vain means deceitful; that is worse yet. Deceit is defined as stratagem, and using a husking peg strategically in church is not in consonance with the highest type of etiquette as she is practiced by advanced etiquettiers who are way up in G in the city, Mary, not by two long jumps and a scramble.

Stratagem means evil machination and machination means scheming. What moral right has a man to go to church and scheme his ear with a husking peg, Mary? A scheme is an intrigue, and an intrigue is a plot. He was actually plotting against his ear with that instrument of torture, Mary. A plot is a conspiracy, a conspiracy is a cabal, a cabal a junto. Just think of it, Mary, juntoing his ear with a husking peg during divine services.

A junto is a clique, a clique is a clan, a clan is a sect, a sect is a class, a class is a group, and there he sat grouping his ear with that gouge. A group is a bunch, and a bunch is a

protuberance. A protuberance is a lump, and a lump is a swelling, and also means to aggravate.

There you are, Mary; your fellow is all swelled up, and he aggravates you.

It took a lot of circumlocution to establish this fact, Mary, but it is worth the time and money spent in investigation. Now our advice to you is this: Just notify him at once that he will hereafter use a nut pick or a shingle nail to gouge his ear with while in church, or he will sit close to you hereafter a whole lot farther off. A husking peg is not esthetic, and not a proper tool of offense or defense in a case of that kind, Mary.

The Easy Bachelor.

The old bachelor who always declares he will never marry is usually caught napping by a red-headed grass-widow at about the age of half-past forty, and then isn't he a picnic, a pudding and a squeezed lemon? What a pleasure it is after a year or two to listen to the tintinnulations of his feet pattering down the hall in the silent watches of the night hushing the pain cries of the baby as its lungs are being exercised from a good dose of the colic. Oh, love! love! There's nothing overcomes or counteracts it when it becomes chronic, except colic or croup. Standing on one foot on a cold oilcloth, dropping paregoric in a tin spoon by the light of the moon, with the baby whooping it up like a pig with its head under a gate, will ameliorate love to a point several degrees below the boiling point and make a refrigerator out of a red-hot furnace.

To Tame a Bull.

A bull on a rampage is more dangerous than a man in love with another man's wife and quicker than a weasel dodging a hornet. He will do everything that's mean except to bite. Dehorn while young and behead early is a good maxim. Bull beef is good to send to the heathen and when run once or twice through a lath mill makes fine tripe.

If you have a mild-mannered, cherubic-dispositioned bull, with a philanthropic cast of countenance, eyes like a gazelle, and a "peace-on-earth-good-will-to-men" twist to its tail, look out! That angelic "ahmoo-oo" can change to a satanic "Brr-r-r" in two twinklings of a lamb's tail, and that heavenly sigh to a sardonic bellow while you are sounding the first letter of the word scat.

A bull cannot reason, but can change its mind quicker than an actress can change her facial expression. He may have a disposition sweeter than the smile of President Taft, but with one twist of his tail he can uncork the vials of wrath until they hubble like the effervescing hired man with a tick in his ear.

The favorite pastime of a hull full of clover and heroics is to pick a man up on his horns, toss him into the loft of the barn and meet him as he comes down with a side swing and a half nelson and throw him diagonally through the end of the barn. If by chance he should miss catching him on the fly he will walk on him with all four feet at once, until he resembles a sofa pillow that the puppy has played with.

All bulls should be dehorned, some bulls should be beheaded and their heads made into toilet soap. To dehorn, take them when young and pull their horns out by the roots, or drive them up with a post maul. Don't try to do either of these after the hull is four years old, without plenty of help.

If you want to make a pet of a hull, cut his head off first. This will make him tame and tractable and free his mind from the allurements of vice. It makes him steadfast and sedentary. To part two bulls that are fighting, use some caution and a whole lot of procrastination. Wait until they are tired out, and let the hired man hit them with an ax before you get into the same field where they are.

Pump the Water



anywhere you want
it with a

GOULDS

Pure, fresh water throughout your home for household purposes, and in your barn and yard for the cattle is a necessity if you would live well and farm most successfully. You can have it by installing a Goulds Pump and all outlay and practically no expense for upkeep. Simple and durably made. Practical in construction—work easily. Don't buy cheap imitations to cause constant trouble and expense. You can get the genuine if "Goulds" is on the Pump. Write today for our illustrated book, "Water Supply for the Home." It covers completely the subject of pure water for the country house, barn and yard and how best to obtain it. The book is free—study it to see what chance you have.

THE GOULDS MFG. COMPANY
96 West Fall Street, Seneca Falls, N. Y.

Let Us Lend You a New Holland Feed Mill



Go to our nearest dealer and borrow a NEW HOLLAND Feed Mill just as you would of your best neighbor. We have authorized him to let you try one and not to charge you a cent until you've said you want to keep it.

Mill. This is the squarest, broadest way we know of to show you farmers the big profits you get from grinding your grain and cobs before feeding and to acquaint you with the perfect grinding, easy-running, durable qualities of the NEW HOLLAND Feed Mill. This mill can be had in five sizes, is adaptable to any kind of power, and the price asked is exceptionally low. To know the right way to feed grain—and to turn corn cobs into good profit—you should send us your name immediately for our free, authoritative treatise on this subject. Where we have no nearby dealer we ship the Mill direct to you for a liberal free trial. Write us to-day and learn more about feeding. Book on NEW HOLLAND Wood Saws free on request.

NEW HOLLAND MACHINE CO.
Box 17, NEW HOLLAND, PA.

CORN BELT MILL

This mill is strongly constructed, and takes less power than any other mill of its capacity. The lathe-centered burrs insure fine, even grinding. The new feed regulator gives perfect regulation on ear corn as well as small grain. The burrs may be changed in three minutes. This feature is worth the price of the mill to a good many.

Try it 20 days FREE

We would like to have you test a Corn Belt Mill on your farm for 20 days. If it doesn't do its work better than any mill you ever used, send it back at our expense. Learn more about this mill. Write for booklet to-day.
SPARTAN MANUFACTURING CO.
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Simple Reliable Powerful

Getting the most engine for your money does not mean buying the cheapest—but an engine that will give reliable results year in, year out—steady, uniform—absolute interchangeability of parts—actual power, equal rating. Every requirement of the man who wants a simple, reliable engine is met by the

Weber Gas or Gasoline Engine

Sold Under Our Absolute Guarantee
Will lighten the labor of pumping, grinding, shelling and all kinds of farm work.
Write today for our new handsomely illustrated catalog fully describing the Weber Engine.
Sheffield Gas Power Co., 103 Winchester Pl., Kansas City, Mo.

THE LUCKY STAR GASOLINE ENGINE

Made in all sizes up to 12 H. P. Guaranteed to be first-class. 30 days' free trial. Price from \$31.35 up. Write for circular to the
New Hampton Mfg. Co.
NEW HAMPTON, IOWA.

**ELECTRIC
Steel Wheels**
for your wagon. Use your old running gears—our steel wheels will fit them and make your wagon good as new. Send for free catalog of solid metal wheels (sizes to fit all axles) that cannot swell, dry apart or rot. Make a new wagon out of your old one. Write for the book now on.

ELECTRIC WHEEL CO., Box 58, QUINCY, ILL.

Echoes From a Kansas Farm

BY HENRY HATCH

Reporters for the daily newspapers already have a considerable portion of the winter wheat crop killed and the rest badly damaged. The next time a newspaper reporter gets chilly the peach crop will probably go up.

A chance to produce seven and eight-cent hogs with fifty-cent corn comes seldom, but when it does come, the man who kept straight ahead in the hog business gets all back he ever lost by being overloaded when the margin went the other way, and a little for interest and reward for stick-toitiveness.

A good way to keep ahead of some men is never to have any business with them; in fact, it may be the only way.

When the days begin to lengthen the cold begins to strengthen, says the old saw. But like every other old saw and sign, the breaking point comes after a while. When the days have lengthened enough the icy grip is weakened.

Now that we have had winter enough to almost entitle this to a seat beside the "old-fashioned winter" of the past, sign believers have dragged into light many signs, omens and theories that proved, before summer had drifted into fall that this was to be a hard winter. It is always a good plan never to spring your sign until what it foretells has already happened.

We know a young man who wishes

to become a lumber dealer, a very desirable position in these days of lumber dealers' associations, and he is going to an agricultural college to prepare himself. Should not an agricultural college prepare young men for farming, and farming only? It seems to us that too many of the agricultural college graduates turn out to be everything else but farmers.

There are a few lines of railroad in Kansas not all they should be. Any talk from the people about repairs has been treated with indifference by the railroad officials, until lately. Now the company wishes to float a lot of bonds and it is discovered the continual "beefing" being done by the people is liable to hurt the sale of aforesaid bonds. After all, there appears to be a way for common folks to reach the ears of the corporations.

A friend wants to know why there are no more silos in the Southwest. We can account for it only by the fact that some man in every neighborhood hasn't broken the spell by building one. A city writer, who probably knows nothing about farming, says what one Kansas farmer now has his neighbor gets likewise. Because there is no silo in this county, there is none. Isn't this reason as good as any?

The feeder who will give a cent more a bushel for corn of one color than of another must be quitting the business. We once knew a man who regularly paid a cent more for pure yellow corn. He was an honest man, a sensible thinker and a good feeder, but his preference for yellow corn didn't account for all.

Corn that will not weigh out according to measure lacks in feeding value

as well as in weight. We would rather have a bushel of corn that overruns in weight than one that must overrun the measure to make enough pounds, whether it is white, yellow or like Joseph's coat. Quality, not color, is what counts, and quality pulls heavy on the scales.

A good time to sell any kind of stock is when it is ready for market and the price gives a reasonable return for the animal and its feed. Holding for a little higher price is speculative, and all speculation is risky. You can never tell when you may have to take a lower instead of a higher price, and when an animal is well fattened the danger of loss is greater.

An old friend of our family, a butter maker of the Green mountains, once did a little speculating in butter. Butter was high in price then, but this old fellow wanted five cents a pound more. As fast as it went up to the selling mark set by the "Yank" the selling mark was raised. Finally, when fifty cents a pound was reached the one who had been holding to all he had made that winter wanted fifty-five cents, and just then the weather grew warmer, spring suddenly appeared, and all the winter's pack of butter at last went, some still maintained, in the night, to the buyer for twenty-five cents a pound.

Recipe for Cider Vinegar.

To the Editor of The Homestead:

One of your subscribers claims he has cider fourteen months old which will not make vinegar. I have had considerable experience in handling cider and vinegar for the last twelve

years. I have never had cider that would not make good vinegar. Soak one or two cakes of yeast until sour and put into cider, giving plenty of air and keep in hot place, or add more fresh cider, giving it new life. If that will not make vinegar, I will trade straw hats with him next summer.

What are the farmers going to do with their vinegar at present? There is a law passed that will not allow the groceryman to sell vinegar unless it tests 40 per cent. I suppose the acid vinegar factories are at the bottom of that to keep the farmer from selling his pure cider vinegar. There is not one farmer in a hundred that can test his vinegar, and good cider vinegar is preferable to acid vinegar any time. There is only a small per cent of pure cider vinegar which tests 40 per cent, unless some acid is put in it and then it is not pure.

A Subscriber.

SIX SPLENDID PAPERS.

The publisher of The Homestead has selected six periodicals which he is convinced cover every phase of farm life and farm interest and which are of interest to every member of the farm household. These papers are The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and National Swine Magazine. If you will remit \$1.50 to The Homestead, Des Moines, Iowa, these six papers will be sent you one entire year. This is exactly half price. Do not delay; make your remittance at once.

A country editor wrote: "Hugh Wade drove in to meet the boys home from college and hauled out a load of trunks." The printer made it read "a load of drunks."

Cheap Cars vs. Good Cars

LOTS of cheap new automobiles on the market now. Dozens of factories are turning them out like fodder from a shredder.

Prices are so low that it seems a shame not to own a car.

But—you are right in doubting whether this \$723 "Whirlwind" is a safe investment for you.

Most men who have owned cheap new cars sold them as quickly as possible and got bigger, better and safer ones. Experience shows that the cheap new car costs too much to keep in repair. The first cost is only a small part of the expense.

The cheap new car is made to sell; if you want to get any real service from it, then your big expense begins. And you stand little chance of getting satisfaction, because the maker of \$723 automobiles can't possibly put into his cars any but the cheapest material and workmanship. You can buy a horse for \$10, but after all it's a \$10 horse, isn't it?

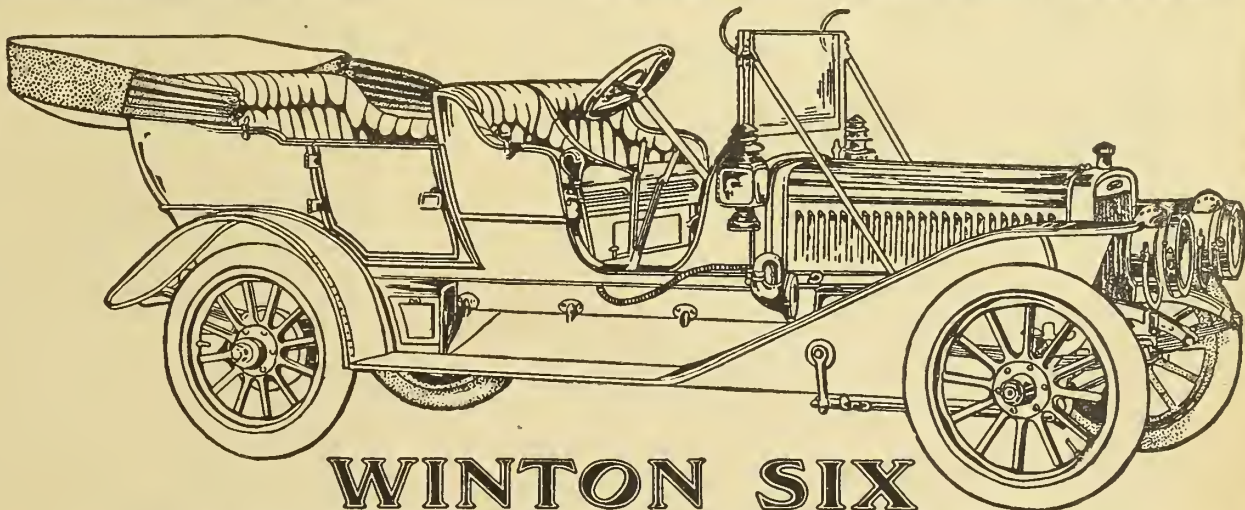
The only real bargain for the man who wants a car at low price is to buy direct from us, the manufacturers, a used Winton car.

Winton cars are notably high grade; they seem to run forever. But many a Winton owner wants our very latest model in order to be in style and turns in his used car as part payment. We take this used car into our shops, go over it thoroughly, put it in first-class condition, re-varnish it as bright as new, and sell it again at from 50 to 80 per cent below its original price.

We have made hundreds of sales of used cars to farmers and thousands in cities, and we do not know of one buyer who isn't glad that he took our advice and bought an inexpensive, satisfactory, high-grade, used car rather than an expensive, unsatisfactory, cheap, new car.

The Winton Company has been in business since 1896 and is in business to stay. The big commercial agencies give us the very highest rating. Our reputation and responsibility are such that we couldn't afford to make a cheap car, nor to misrepresent a single fact about our used cars. Our factory at Cleveland, Ohio, is one of the largest in the world. We own and operate branch houses in Chicago, Minneapolis, San Francisco, Seattle, Detroit, Pittsburgh, Baltimore, Philadelphia, New York and Boston.

You can safely do business with us, and we know that if you once buy a Winton car, you will thereafter help us to sell cars to your friends by telling them how well satisfied you are with the car we sold you.



WINTON SIX

This is the self-cranking, 48 horse-power Winton Six Touring Car—\$3000

Six-cylinder, 48 h. p. motor. Cylinders offset. All working parts housed. Oil-bathed multiple-disc clutch. Four-speed, selective transmission. Clutch and transmission run on ball bearings. Bosch or Eisemann magneto, and storage battery. The liveliest carburetor we have ever seen. Force-feed lubrication. Frame narrowed in front, to allow short turning radius. 124-inch wheel base. Semi-elliptical springs, with four shock-absorbers and four rubber bumpers. 34-inch wheels. 4-inch tires in front, 4 1/2 inch tires on rear wheels. Low-suspended body. Price, with four or five-passenger touring car body, runabout body, or toy tonneau body, \$3000.

TO BUYERS OF USED CARS

LET us caution prospective buyers of used cars against being led into unsatisfactory purchases by unscrupulous dealers.

There are many ways in which buyers may be fooled, but there are also many ways in which buyers may protect themselves.

Some of the latter are as follows:

When a used car is offered for your purchase, find out the car maker's name, the motor number, and the previous owner's name.

Write the maker and ask the date of the sale of that particular motor, giving the motor number. The answer will show you how old the car is and give you an idea of how long it has been in use.

Write the former owner, and find out how long he used the car and what its faults were, etc.

If the dealer tells you the car has been overhauled or rebuilt in the maker's factory, write the maker and ask him how thoroughly he overhauled or rebuilt the car, if at all. The maker will be pleased to answer this inquiry, for he is just as anxious as you are not to have his product misrepresented. A good car that has been overhauled or rebuilt by the

maker himself is infinitely a better purchase than one which a dealer has simply "tuned up" for sale.

And remember that a car that simply "looks good" may not be any better inside than a horse that has been "doped up" by a "jockey."

Your safety in buying a used car is to deal direct with the manufacturer. The latter is in business to stay. He cannot afford to have a disappointed owner on his list. But the average dealer in used cars has nothing at stake. All he wants to do is to dispose of that particular car which he offers to sell you. And he doesn't ever want to hear from you again. On the other hand, a legitimate manufacturer wants you to be pleased with his car, so that you will advertise it to your friends and bring other buyers into his fold.

Never buy a used car simply because it is cheap in price—it may be, in the end, the most expensive thing you ever purchased.

We invite your correspondence regarding the used cars we have for sale. We have them in various sizes and at various prices. If you will indicate about how much you expect to pay for a car, and whether you want a car to

carry two, five or seven passengers, we will go through our list, and give you the details of the cars that most nearly meet your requirements. And you may be sure that if, after carefully considering the matter, you make a purchase from us, you will have secured the best value the market affords.

GET OUR LITERATURE

NO automobile manufacturer in the world issues for the benefit of its customers a more complete line of literature than does the Winton Company. Our catalogs and booklets cover every phase of automobile purchase and use. We have nothing to conceal, and we like to take buyers into our confidence. We want our buyers to have complete knowledge of us and our product, and complete faith in both BEFORE they purchase, for we know that their faith will be completely sustained by Winton cars AFTER purchase. WRITE FOR LITERATURE TODAY.

The Winton Motor Carriage Co.

Dept. 2, CLEVELAND, OHIO.
Please send Winton Six literature to

I am interested in NEW USED CARS
(Underline which)

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

GOVERNOR'S PLAN TO NARROW ROADS.

At the recent convention of the Iowa Implement Dealers' Association, Governor Carroll, of Iowa, proposed a plan for reducing the width of country roads from sixty to forty feet. He suggested that the extra land—a strip ten feet wide on each side of the roads, be returned to the owners of contiguous land, for cultivation. The association favored a reduction in the width of the roads, but contended that the extra land should be sold, and the proceeds thereof used in repairs and improvement of the forty-foot roadways. It has also been suggested that the strips of land so taken from the roadways, should be sold and the

money turned into the general road fund.

If the roads should be reduced in width the governor is unquestionably correct as to the proper disposal of the strips of ground to be taken from the roadways. No other lawful disposition of this land could possibly be made where the roads have been established in the regular way.

The opening of a public road by legal proceedings in Iowa does not confer on the public the ownership of the ground occupied by the road,—but only an easement in it—the right to use it as a public highway, to pass and repass over it. The fee in the soil remains in the owner of the land over which the road is located. He retains all rights as owner, subject, however, to the right of the public to travel over it and keep it fitted for that purpose. When, therefore, the public abandons the ground or any part of it, as a public highway, the ground so abandoned is at once relieved from the burden or easement to which it was subjected, and the full rights of absolute ownership become alive in the owner, by operation of law. In such a case neither state, county nor township has any right to sell or rent the abandoned ground. The right of the public to it ceases and comes to an end when it is abandoned for highway purposes and the owner of the land to which it originally belonged can lawfully claim possession of it.

LAW QUESTIONS CONSIDERED.

FIXTURES—FENCES—SOUTH DAKOTA.

A Subscriber, Blairstown, Iowa.—(1) A bought a farm in South Dakota from B. There is a windmill pump on the place, with a common stave water tank connected with the pump by a removable piece of gas pipe lying loose on top of the tank, and hanging on the spout at the pump. Nothing was said in the contract about the water tank. Who is entitled to it? (2) A and B own adjoining farms in South Dakota, which are mostly prairie, but there is some tilled land on each place. A wishes to fence his farm. Does the law require B to furnish half of the partition fence between the farms, and if B refuses to do so, what can A do about it?

Answer.—(1) The water tank seems to be incidental and appurtenant to the land, and by right used with it. We are therefore of the opinion that it goes with the land to the purchaser, but it is a close question. (2) There is no law in South Dakota which requires owners of adjoining lands to contribute to the building of a partition fence.

REGISTERED HORSES.

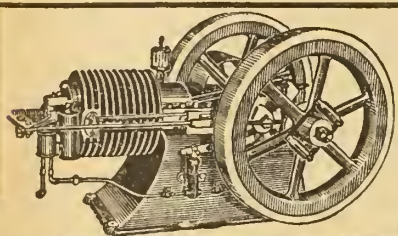
A Subscriber, Kirkwood, Ill.—I bred a registered standard trotting mare to a stallion supposed to be a registered standard horse. The stud cards used to advertise him gave his pedigree correctly, but stated his name with the number 212 immediately after it, and race record as 2:19½, the whole appearance of the cards leaving an impression that the horse was a standard registered horse. It now appears that the horse is registered under some pacing state law of Ohio, but not in the regular American Trotting Register and, therefore, the colt my mare brought cannot be registered there as a standard bred colt. (1) Can I be compelled to pay the service fee of the stallion? (2) Can I recover damages from the owner of the stallion?

Answer.—(1) You are liable for the service fee of the stallion. You cannot avoid it on the ground that the stallion was not registered in the American Trotting Register. The stud cards did not so represent the matter. You deceived yourself by neglecting to take sufficient care in understanding the cards. You were simply misled by their appearance, and formed a hasty conclusion. (2) For the reasons just stated you cannot recover damages.

DEFAUDING CREDITORS.

A Subscriber, Mason City, Iowa.—About four years and a half ago B commenced to work for A and has worked for him ever since, till recently, when they had some trouble, and B left him. A has nothing, having put everything in his wife's name to defraud his creditors, the property being entirely personal. This was done before A began to work for him. There are judgments against A. He refuses to pay B for his work and has given him nothing except the few clothes he wore while in A's employ. What course, if any, can B take to recover the amount of his wages?

Answer.—It is a difficult matter to collect wages from a person who has no property of any kind; however, if it can be established by proof that A put his property out of his hands—that is, in his wife's name—to defraud creditors, the property can be seized and sold to satisfy B's claim for wages. B should employ a local attorney and lay all the facts before him concerning the manner in which A transferred his property to his wife.



IT'S DIFFERENT

even from other air-cooled gasoline engines. We have no dangerous fans requiring power to run and expense to keep in repair. The Gade has no water to freeze or oil to clog. Our patented device draws fresh, cool air directly into combustion chamber, thus keeping the engine cooler than by any other method.

THE GADE GASOLINE ENGINE, by special arrangement of valves, saves one-third the gasoline. It starts as easily in cold as in hot weather. GUARANTEED to develop rated horse power and remain cool, not for a few hours, but for three or four days' steady run. **FREE TRIAL OFFER**—Sent on 30 days' free trial. Test for yourself on your own farm. No papers to sign or money to deposit. We pay freight both ways if not satisfactory. Absolutely no risk. Address **GADE BROS. MFG. CO.,** 26 Main St., IOWA FALLS, IOWA.

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Why feed the flesh of your hogs lice and other parasites? Why waste high-priced feed on lousy hogs? Stop this loss by using

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It automatically spreads the dip on affected parts. No labor required. Cheaper and better than other methods. Write for description and price.

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Manufacturers of the celebrated
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Branch House:—Regina, Sask.

"MORE POTATOES"

From ground planted secured
by use of the **KEYSTONE**
POTATO PLANTER than
by any other method of
planting. Work perfectly
accurate. A simple,
strong, durable machine.
Write for catalog, price
and full description.
A. J. PLATT, Mfr.,
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FIFIELD GASOLINE TANK HEATER
ABSOLUTELY indestructible from freezing. No
ashes; no sparks; heats largest tanks. **FIFIELD**
SANITARY CISTERN FILTER cleans danger-
ous and dirty water. Cost is small. For circular
about both, address **C. C. Fifield,** Grand Junction, Ia.

When writing please mention this paper.

THE INDEPENDENT HARVESTER CO.

THE FARMERS' CO. PLANO, ILL. NOT IN THE TRUST

Extend a cordial invitation to every farmer who studies his own interests to call on or write to **THE INDEPENDENT HARVESTER CO.,** of PLANO, ILL., and learn of the liberal discounts that farmers receive who are members of this Farmers' Co-Operative Company.

This enterprise is one of the most important to farmers in the history of the manufacture of farm machinery. Farmers and dealers throughout the United States endorse this plan, coming as it does at a time when the burden of the Trusts is felt so keenly. An investment in The Independent Harvester Co. will give the farmer a great advantage in obtaining the highest grade of modern machinery at prices lower than they have to pay elsewhere.

Call on or write to any of the following Distributing Agencies:

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616-618 First Street North, Minneapolis, Minn.

THE INDEPENDENT HARVESTER CO.
Fort Dodge, Iowa.

THE INDEPENDENT HARVESTER CO.
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THE INDEPENDENT HARVESTER CO.
U. S. Yards, Record Bldg., Chicago, Ill.

THE INDEPENDENT HARVESTER CO.
Watertown, South Dakota.

The Modern Farm Horse

CHEAPER—QUICKER—BETTER THAN HORSES

ALWAYS READY—NEVER TIRED

No wasted hours feeding, caring for and harnessing horses. 10 or 15 minutes to oil up and you're off. Eats nothing when idle. The Ideal Power for plowing, discing, seeding, harvesting, threshing; corn planting, shelling, shredding, grinding; road grading, hauling and all kinds of heavy farm work. Hundreds in successful operation.

OIL COOLED—FROST PROOF—DUST PROOF

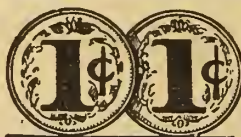
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USE GASOLINE, KEROSENE OR ALCOHOL

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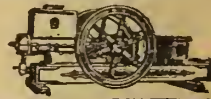
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2c and a Lawson "Frost King" Engine

Will Separate 800 lbs. of Milk for You



Semi-Portable "Frost King"
6, 8, 10, 12, 15, 20 and 25 H.P.

What's more The Lawson "Frost King" will work for you all the year around. The coldest day in January will not affect it any more than the hottest day in summer. It has no cumbersome water tank to freeze or leak. The Lawson is the easy starting engine. So easy that a boy can run it as well as a man. No cranking required.

It is the ideal farm power. Over 90 per cent of our engines are used by farmers. Send us your dealer's name, state the power required and get our catalogue FREE, together with full information about why the Lawson is superior to all other engines.

THE JOHN LAUSON MFG. CO.
302 Northwest St. New Halstead, Wis.

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At One-Tenth The Cost



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is the best wood and metal preservative known. It soaks into the wood, keeps out moisture and insects, thereby preventing decay. Especially adapted for painting barns, hog and cattle sheds, poultry houses, corn cribs, etc. It is a perfect preservative. **TAROLEUM** is an extra good paint. It preserves fence posts and shingles. Best for metal and prepared roofings. Only one color, black. If you have wood to paint ask for No. 1. For metal and prepared roofings ask for No. 2, as it has more body and leaves a heavy coat. Either kind can be applied with a brush. Fifty gallons \$7.50 f.o.b. Omaha. Also sold in small quantities. Try it. Satisfaction guaranteed. Write for our booklet which explains why **TAROLEUM** PRICE IS LOW and QUALITY HIGH.

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DOUBLE THE CAPACITY OF GEARED MILLS

Two-horse mill has 24-in. grinding burrs (two sets) all grinding at once, and grinds from 25 to 50 bu. per hour. Four-horse mill grinds from 60 to 80 bu. per hour.

30,000 Bu. with one set of burrs.—I have ground with one set of burrs, more than 30,000 bushels of corn with my Mogul No. 1 Mill, and the burrs are still in good condition.—F. F. Craig, Mt. Carroll, Ill.

Two complete mills in one; has double the capacity and double the durability. Absolutely no friction or wearing. Will earn cost price in three days. The largest ears of corn to these mills are like popcorn to other mills. We manufacture the most durable and fastest grinding line of mills sold, including our Famous Iowa No. 2 for \$12.50. Send for our free catalog.

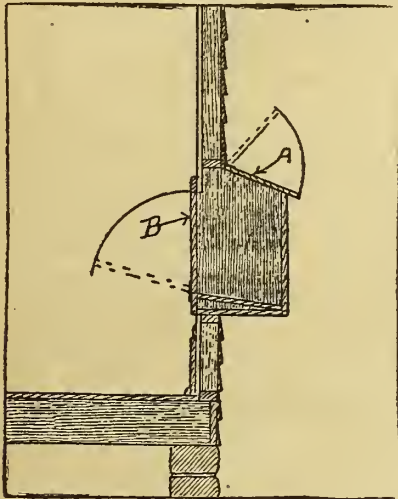
BOVEE GRINDER & FURNACE WORKS, 100 8th Street, WATERLOO, IOWA.

HINTS-SUGGESTIONS-DEVICES AND CONDENSED LETTERS FROM CORRESPONDENTS

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm or something that is connected with the home.

A Handy Coal Box.

One of our subscribers has found that a coal box such as is shown in this illustration will save the housewife much labor, and also many steps for the one who carries in the coal. It is not possible to empty a bucket of coal in the ordinary coal box and keep down the coal dust, or keep it from flying all over the room, and during muddy weather much mud and dirt is tracked in in filling the box. This trouble may all be avoided by using a box such as is shown in the cut. A hole is cut through the wall the proper size, and handy to the range, and the box built in as shown of seven-eighths inch pine lumber. The coal is placed in the box through the door A, from the outside and used through the door B from the inside as required. If desired a compartment for kindling

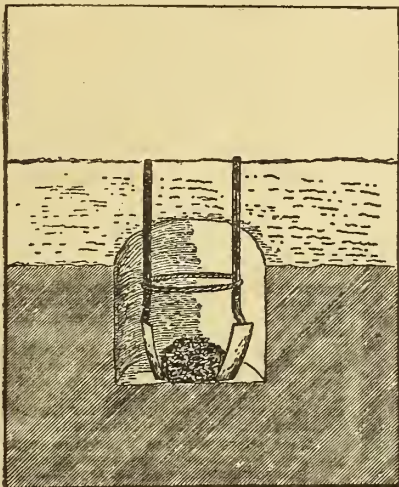


may be made by placing a partition in the box. The size of the box will depend on the number of stoves used and may be best determined by the builder. If possible, build the box un-

der the porch and keep it well painted. As shown, both the top and the bottom parts are built sloping and the more coal placed in the box the greater must be the slope of the bottom to keep the coal from falling on the floor. Some users of this box place a narrow board across the door on the inside and remove same when a portion of coal has been used out.

A Post Hole Kink.

One of our subscribers writes that he lately watched two men digging holes for telephone poles and an accident to their digger, which put it out of business, brought to light the kink shown in the accompanying illustration. The dirt was rather hard and full of gravel and a large chisel-shaped

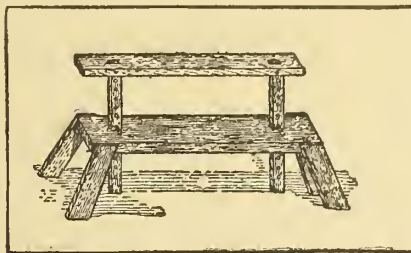


bar was used to loosen it, then it was removed from the hole with the digger. To replace the digger the man made a loop of wire about nine inches long and placed it around the handles of a spade and a shovel as shown. By taking one handle in each hand the operator could, by pushing them apart, easily remove quite a lot of dirt in one operation. The wire was made fast to one handle with a small nail, but worked loose on the other one. If anything the device would remove the loose dirt faster and easier than the digger. We think perhaps the idea may be of use to some one or more

of our readers when his neighbor has borrowed his digger and he wishes to dig a few holes.

A Handy Work Bench.

The horse of bench herewith illustrated has been found by one of our



subscribers to save much labor and bending of the back when repairing the various tools and machines this

winter, as every good farmer should do. To make the bench secure a piece of 2x8 timber about six feet long for each bench. There should be two, and if more than one man works in your shop have two for each man. Build the bench as shown twenty-four inches high, make the four legs of good heavy timbers two inches thick and six inches wide. When all has been well nailed or bolted together mortise two holes as shown and make the center lift. The top for this should be 2x6-inch stock and the two uprights of 2x4-inch stock. Bore one-inch holes as shown and make two oak pins to hold the center in the desired position. The two uprights for the center should be about two feet and six inches long and if for a very tall man, three feet long. By having two of these benches in your shop you can easily raise or lower your work to save many backaches; build a couple.

Little Girl Lifts 200 Lbs.

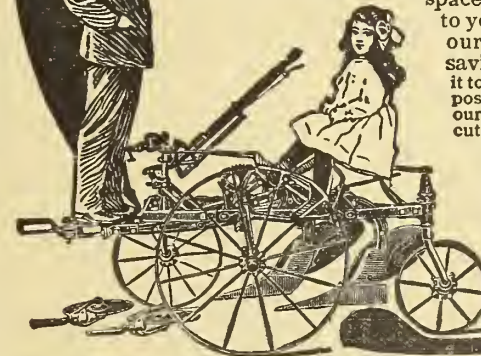
Look at this picture taken from an actual photograph. The child seated on an Emerson Foot-Lift Plow has raised with an easy touch of her foot a 200-pound man. That is the test and the proof of Emerson control. It is all done with the feet. In or out of the hardest soil, there is no plow in the world like

An Emerson Plow for Easy Plowing

THIS picture proves a point that is of vital interest to every user of a sulky or gang-plow in this country. Emerson plows are light-draft plows. No plow is built that lays a nicer furrow, or is lighter of draft, or more durable. By carrying the load on the large wheels—the wheels nearest the team—you save 100 lbs. draft when plowing 6 inches deep, or deeper. The 2000-mile magazine wheel boxes and axles absolutely insure durability.

All the Emerson good points can't be explained in this space, but it will be worth money to you to know them. Write for our book explaining each time-saving, labor-saving point. Do it today. Don't put it off. Send a postcard or letter. Also ask about our famous New Standard Wide-cut Mowers.

EMERSON-BRANTINGHAM
COMPANY
Rockford, Ill.



FREE
BOOK
ON THE
EMERSON
STANDARD
MOWER

Friends—Tell Me Your Power Needs

SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horsepower from a real engine factory. Save dealer, jobber and catalogue-house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. Come to Waterloo and see it. I sell them direct to you for less money than some factories can make them at actual shop cost—I make so many. All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

Anybody can afford and might just as well have a high-grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for in carload lots for spot cash. An engine that is made so good in the factory that I will send it out anywhere in the U. S. without an expert to any inexperienced user, on 30 days' free trial, to test against any engine made of similar horsepower that sells for twice as much, and let him be the judge.

INFORMATION YOU WANT TO KNOW

Here's how the other fellow answers your questions. I have hundreds of original letters like these—A lot more also in my Engine Book. Get it.

How About Cold Weather?

My engine came O. K., goes O. K., I like it O. K., and it is O. K. The engine I had last winter I had a dread of starting it in the morning, but this one is a pleasure; for, instead of 1 barrel of water, 2 pails does the job. I advise anyone wishing an engine to try the Galloway, as it costs nothing to try, according to their terms. W. F. Jennings, Chippewa Falls, Wis.

Is It Powerful and Economical?

When words cannot express a man's thoughts he

is up against it. I think you have the best engine on the market for the money. It is easy to start, it is simple; it is powerful, and it is a smooth-runner. I or no other man knows the worth of an engine till he has used one. I would not think of being without one at any price, and, if I was buying a dozen, they would be Galloways. On the coldest morning, all I have to do is to turn the gasoline on, throw the switch in and turn half over—and are gone. My brother used to sell fair engines and he was up to my place. He said my 5-H.P. Galloway beat anything he ever saw.

Anybody doubting this testimony, I would be glad to hear from them. E. J. Oliphant, Dodge City, Kans., R. No. 1.

Is It Simple and Easy to Start and Run?

I find the 5-H.P. engine that I purchased from you to be all that you claimed it to be. Without previous experience, I have no trouble in operating it, while several of my neighbors, with other makes of engines much higher priced, have to call in experts frequently to put them in order. I certainly would not trade it for any engine I ever saw run. E. Loomis, Gibbon, Neb.

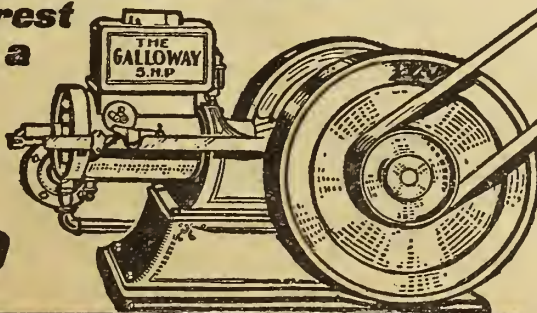
Galloway

Keep the \$100 That I Save You at Home in Your Own Pocket—That's as Near Home as You Can Get.

Sell your poorest horse and buy a

5-H.P.
—Only

\$119.50



Cut out this Coupon and mail to me now:

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WM. GALLOWAY, Pres.
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Here is my name and address—send me FREE your Big New 1910 Galloway Gasoline Engine and Power Book—also Low Prices—30-day Free Trial offer and Special Proposition direct from your factory to me.

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IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. I also make the famous Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader. Also the Galloway Cream Separator. All sold on same direct plan as my Gasoline Engines. If interested, ask for my Spreader or Catalogs—FREE.

Engines. If Separator.....

My prices for any horse-power engine you want are 'way below anybody else's—and you get the very highest quality in every Galloway machine.

2-Horse-power Galloway Gasoline Engine \$59.50

I know that it pays best to have a 5-horsepower engine on your place—but if you want a 2-horsepower, I will send you the best 2-horsepower engine in the world today, and you are the judge on my 30 days' free trial.

2 to 22-Horse-power

GASOLINE ENGINES

Direct to You on 30 Days' Free Trial

How Galloway Engines Save and Make You Money—Their Uses

1. On the Farm—Power for so many kinds of work that they practically save a big share of your hardest labor—and solve the "hired help" problem most of the year.

2. Cream Separator—Run it twice a day, or 730 times a year. Think that over for the women's sake and your own.

3. Churning—Saves all the hard work.

4. Wash Machine—Every week—it saves the woman's work.

5. Grinding—Saves one man's time turning.

6. Shelling, Shredding and Feed Cutting, besides running the Fanning Mill, etc., etc.

7. The Elevator and Silo—Galloway furnishes the power.

8. Sawing Wood—See Galloway's outfit and description at the right, here.

9. Pumping—Power instead of "back work" or the windmill—no matter where your water comes from, you will thank Galloway for this suggestion.

10. Spraying Machines—Cheapest, handiest way to run.

11. Many Other Ways explained on pages 10 and 11 and all through my Big Free Gasoline Engine Book—Free to you if you send your name to Galloway. Do that right away and see about them—with hundreds of illustrations from farms and factories. Write today.

12. Grinding—Are you paying toll to some other man? Why not buy a Galloway and grind all your own feed? You'll be astonished to see how much you have been losing.

Write Galloway—That's the best use you can make of your time right now, while it's on your mind.

Get Galloway's Biggest and Best FREE GASOLINE ENGINE BOOK. Write today for my beautiful, new 50-page Engine Book in four colors; nothing like it ever printed before; full of valuable information, showing how I made them and how you can make more money with a gasoline engine on the farm. Write me—Wm. Galloway, Pres.

THE WILLIAM GALLOWAY COMPANY OF AMERICA

Authorized Capital, \$3,500,000.00. 105 Galloway Station, Waterloo, Iowa

State or County Road Commission

Many prefer a non-political state commission built upon existing highway divisions—others would have committees of road supervisors chosen by separate county boards

WILLIAM HALBERSLEBEN, Sauk Co., Wis.:—I favor the state commission for building better roads for several reasons. First, I do not think the state should invest any money in road building or any other work without supervision to some extent. Second, it would stop any tendency to use state money for road work of a character for which it was not intended, for without state supervision there would be a tendency to use state money for work of too temporary a character to warrant the expenditure. Third, I think we would get better roads of a more permanent character under state supervision. I think the state should at least approve of plans for building roads and also inspect same when finished. In view of what the highway division of the state geological survey has done in surveying and building roads with the force at hand, the last two or three years I do not think that state supervision would necessarily involve any great expense.

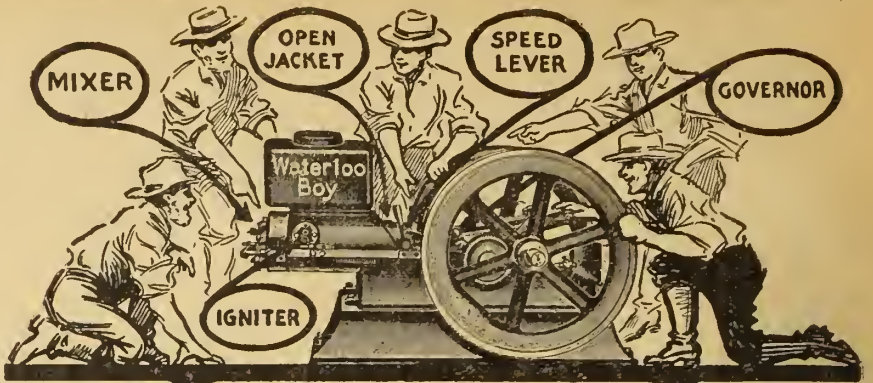
B. T. DALEY, Mt. Horeb, Wis.:—I prefer a county commission because I believe that will be the cheapest and best way. I don't think the state should undertake any road building. Under the old system where the county and town supervised the improvement of roads it worked well and satisfactorily.

A. O. Stromer, Dane Co., Wis.:—Under the circumstances, as for Wisconsin I favor the county idea because Wisconsin is not developed alike, the southern part is more developed than the northern part and land is worth more in the southern part. I believe each county, as it is settled and developed, should take care of its own roads. If all counties in the state were more alike in value and population I would favor state control like, for instance, in Iowa or Illinois, but in states like Michigan, Wisconsin, or Minnesota I should favor county control. Nevertheless, the time has come when the rural districts must adopt one or the other system

and until they do they will never have good roads. I believe, however, that when all the roads have been improved under a system they should then be under state control. We must have a system so we may get a dollar's worth of road for a dollar's worth of money. I have not the time to go into this matter as fully as I should like at this time, but when I have been better posted on the different laws and got more information how other states have it and perhaps other counties I may be able to write more about this all-important question.

C. A. HANAN, Oregon, Wis.:—I believe that county aid and county control would be better, but as we have voted state aid, I think it should be divided as follows: One-quarter by town, one-quarter by state and one-half by county, and that the work be under a county commissioner elected by the county board; and second, that the duties of the geological survey should be enlarged so that they could O. K. the work of the different counties in order to receive state aid, as they would know what kind of roads could be built in the different localities and should require stone macadam, gravel or clay, as their chart of the state showed. I am opposed to any other kind of a state commission.

W. F. PIERSTORFF, Dane Co., Wis.:—My opinion is that if state aid is adopted in this state, the construction and supervision should be left to the county board of each county, and if they choose to appoint a road commissioner, let them do so, but no roads should be made, neither state nor county roads. The supervision should be left to the towns and the liabilities rest there also. If state commissioners should be appointed it would mean a great expense to oversee road making in each town of this state, as there are a great many towns. It would use up the half of the state aid before the money would reach the town where it was to be used. When I say this I speak for



17 YEARS
ON THE
MARKET

**The Waterloo Boy has
all the Good Points that
go into any Gasoline Engine**

5 YEAR
GUARANTEE

and it doesn't take the up-to-date farmer long to discover them and their value to him. It is the number of practical features embodied in an engine that determines the degree of satisfaction it will give to its owner. All gasoline engines have some good points, or there would be no sale for them and they would soon be taken off the market. Some engines have more good points than others, that's why some engines are better than others.

Waterloo Boy Gasoline Engines

have all the good points that go into any gasoline engine, besides many exclusive, patented features that increase their efficiency and durability; make them marvels of simplicity and wonderfully economical engines to operate. That's why we say the Waterloo Boy is the best engine for farm use.

You can buy a Waterloo Boy for less money than you will be asked for engines containing half of the good points we build into our engines. Besides we will send a Waterloo Boy to any responsible farmer and let him try it for thirty days on his farm doing whatever work he has to do. We will pay the freight both ways and return his money if after a month's use he cannot pick out the good points for himself—if he can't see that it is the one and only engine that will give him complete satisfaction.

Now, when you buy a gasoline engine you had better be sure that the engine you get was made by a concern that makes gasoline engines and nothing else. Our efforts are all directed toward making and keeping the Waterloo Boy the best engine in the world. We have no other interests—no side lines.

Don't you want to try a Waterloo Boy? - Don't you want to see how much labor and time it will save you? Remember we are offering you a free trial for 30 days. Better write us today for our catalogue and free trial offer.

YEARLY
CAPACITY
15000 ENGINES

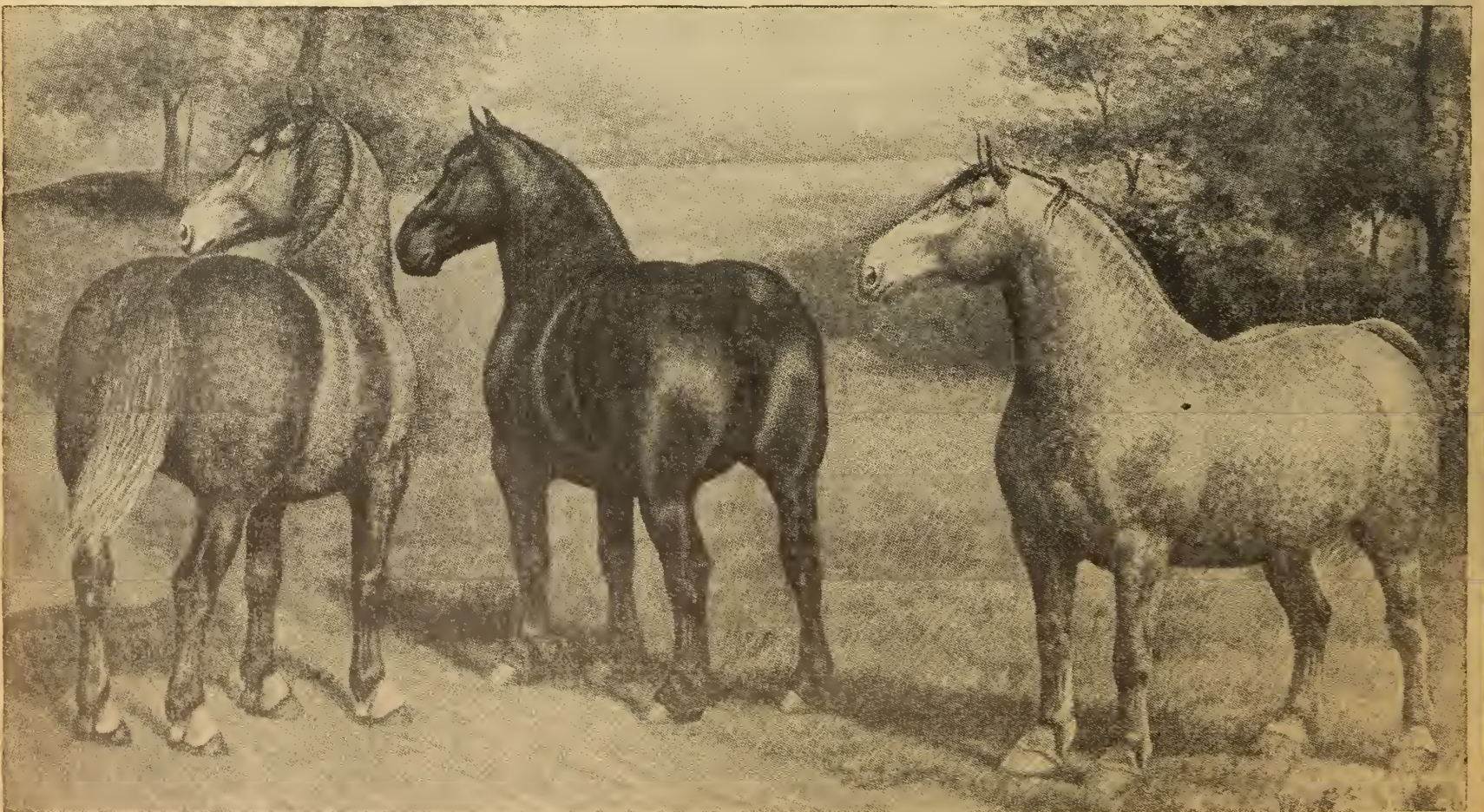
Waterloo Gasoline Engine Company
179 W. Third Avenue, Waterloo, Iowa.

30
DAYS
FREE
TRIAL

practically all the county board of Dane county and a great many taxpayers of this county.

L. B. ROWLEY, Madison, Wis.:—I am in favor of a state commission rather than county commissioners; men who will be above the petty political influence of localities and men who have the subject of good roads at heart. This commission should be helped by the state

geological survey, each county and locality should be charted, the available materials for road building and their location mapped, a standard of roads adopted and classified according to soils and density of population, and state aid both in engineering and money should be extended to localities building their roads in accordance with state plans. All taxes should be paid in money and no road tax be allowed to be worked out, the town, coun-



MAASDAM & WHEELER'S IMPORTED PERCHERONS.

The illustration which appears herewith is an excellent representation of three of the splendid imported Percherons owned by Messrs. Maasdam & Wheeler, of Fairfield, Iowa. These animals are as good as could be secured in the old country, and they belong to the same class as those which were so successful at the late Iowa State Fair and the International Live Stock Exposition of last month. Some information concerning the 150 or more horses for sale by this firm may be learned from the advertisement on page 56. Additional facts may be secured by writing to Messrs. Maasdam & Wheeler, Fairfield, Iowa.

ty and state should equally share the expense of the road, whatever class of road it might be, so long as it conformed to state standard and is inspected by a state engineer. A state commission can accomplish more, do it better, with less friction, less laws, and less expense than ten county commissioners.

JOHAN SCHNEIDER, Sauk Co., Wis.:—I believe a state commission to be too cumbersome and expensive and don't see any material gain neither in placing supervision of road building into the hands of such a commission. I cannot see any reason why a state commissioner should be better qualified or accomplish better results than an able county commissioner would who can devote his whole time among the people whom he mostly knows personally and is, so to say, at home all the time and to a great extent under the eyes of some member of the county board who may retain or remove him from office as his ability or integrity may warrant. In cases where a very extensive piece of work is contemplated or important changes are required, it might be all right to have the county commissioner submit his plans to the state engineer for his approval, but beyond this state supervision need not go. I also believe that abutting property should be taxed from 5 to 10 per cent.

HON. Otto Onstad, Cambridge, Wis.:—The old way of building and maintaining public roads, that is, by the levying of a highway tax payable in labor, is now generally admitted to be expensive, wasteful and wholly inadequate. It is also generally conceded that the state should assume some measure of the responsibility, the control, the expense and the direction of road building and maintaining. The essentials in applying state aid are first, the providing of a thoroughly non-political commission—for this reason I am suggesting one built upon our present highway division—and second, a fair and just distribution of state moneys—the award system seems to me the only absolutely fair and feasible one. Just how much of the expense should be borne by the state will be a difficult matter to adjust in the larger and newer states, as the different parts are at dif-

ferent and unequal stages of development. The county aid law now in operation in Wisconsin must be utilized but it needs a little revision, as it is somewhat ambiguous. This provides that the county shall bear one-half the expense of the cost of construction and the township the other half.

The initiative for road improvement should remain in the township and considerable of the detail work of construction can be very profitably left to the town officials. The principal duty of the state should be to do the technical and scientific work and to undertake the solving of engineering problems, establishing grades, making surveys and furnishing estimates. The state should, therefore, first of all provide a corps of highway engineers whose duties it would be to study methods of road and bridge construction, provide plans and specifications, advise and assist the local authorities with actual inspections of the work during its construction. Wisconsin has such a corps of engineers in its highway division in the state geological survey, the work of this department has so far been only advisory, but it has proven to be of very great value to the localities which have availed themselves of its assistance.

The county is the most natural and convenient unit for the actual work of construction and the township the best unit for the work of maintenance. The county should provide a capable highway superintendent who should see that all his work is up to the standard required by the state engineer. The town chairman should be the active assistant of the county highway superintendent in his own township.

In order that the state may assume the authority to require standards of work it must have the direct financial interest in the work. This I believe can be most fairly accomplished by a system of awards already referred to. The roads should be classified according to the permanency of the material used.

The Feeding of International-Winning Barrows.

To the Editor of The Homestead:

The winning hogs exhibited by the Iowa State College at the recent international were the culls of the boars

of 1908 and 1909. By culls is meant the boars not fit for use.

During last winter the large hogs run in a timber pasture where horses and cattle were fed shock corn. During this time they received their entire feed from what they picked up after the cattle and horses. They remained in this pasture during the summer without any grain feed until August 10th when they were taken up into a small blue grass pasture containing about three acres. At this time they were started on a light feed of dry corn and buttermilk. This feed was gradually increased until they were on full feed by August 20th. No change was made in their feed until October 1st when new corn was substituted for old corn and dry tankage was placed in a box where they had free access to it. From the time these hogs were started on feed no water was supplied them to drink, the reason for this being to force them to take as much buttermilk as possible.

The younger pigs were separated and unsexed about June 1st. They were fed three feeds per day of slop, composed of shorts and buttermilk and all the dry corn they would consume. Fresh water was kept by them all of the time. No change was made in their feed until new corn was substituted for old corn about October 1st. Ten days before the show the shorts and water were taken away when they were forced to consume as much corn and buttermilk as possible. These pigs also had a run of good blue grass pasture during the entire feeding period.

Wilson Rowe.

Iowa Experiment Station.

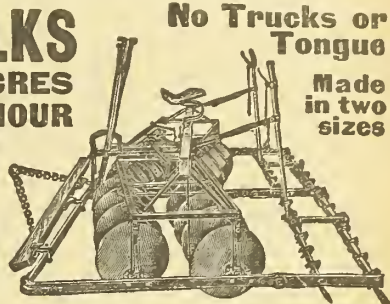
Be patient with the milk cow. Never strike her with a club or with your stool. Keep your feet on the ground, for kicking a cow causes her pain, and she will resent your cruelty by refusing to fill your milk pail.

Ask your neighbor to subscribe for The Homestead.

FROM CORN STALKS TO SEED BED—3 ACRES AN HOUR

This Harrow Completely Discs and Harrows a strip 8 Feet Wide. When the Team Travels a Mile, an Acre of Ground Is Ready for Seed.

NAYLOR 2-ROW DISC and SPIKE HARROW



No Trucks or Tongue

Made in two sizes

You can't afford to overlook this great harrow. There's nothing made that will put the soil in better condition. The double row of discs cultivate every inch of ground, cutting and turning with their side-thrust almost as deep as the plow furrow, and the spike teeth follow to break clods, pulverize and level. Hundreds of farmers are using it on stubble and fallow ground. They secure as good seed beds as if they plowed the ground, and save nearly all the labor.

A Great Tool on Corn Ground

It cultivates deep or shallow. The spike teeth can be given any angle and are held to their work while they pulverize the ground. A single passage cultivates completely an 8-foot strip, ready for the drill or lister. Levers convenient to the seat give perfect control. Drawn with a chain—no tongue or trucks. Two-row principle holds everything steady—no wobbling or trouble in turning.

Write for Full Description and Introductory Offer

We have a special introductory offer to introduce this great harrow into any locality. It will pay you to take advantage of it. Write today. A postal will do.

NAYLOR MFG. CO., La Grange, Ill.
Box 142

Ask For Our Introductory Offer

If You Are a Dealer, Write Us

I'll Make You a Price of Only

\$42³⁰

If You Want It, F. O. B. Waterloo Without Mud-Lugs of Force Feed

—But, remember, you need both, and nobody else can supply you with my Endless-Apron Force Feed, worth \$25 alone in labor saved.

Information You Want to Know

How Does It Compare with \$125 Spreaders?

Hans M. Johnson, Parkston, Minn.: "I would not trade my Galloway for any \$125 spreader I have ever seen."

Garrett Mathias, W. Mathias, Va.: "It is worth two of the —"

Dewey Hicks, El Reno, Okla.: "Have used a —, a \$135 machine. Couldn't think of changing even."

C. C. Johnson, Morrison, Mo.: "The — isn't in it with the Galloway."



WM. GALLOWAY
The Farmers' Manufacturer

Galloway's New Clincher Proposition for 1910

Manure-Spreader Prices Now Based on 30,000 a Year Capacity

I BAFLE all competition combined to equal my new 1910 Proposition. Get it today. I will crack the whip to the full extent of the law on infringers and imitators. They haven't got the spreader nor the patents, and they know it. I have 11 patents on the Galloway and will protect them. Nobody can get around them.

Freight Prepaid (E. of Rockies and N. of Tennessee) to You Anywhere

Direct from Factory ON 30 DAYS' FREE TRIAL

Money Back at 6% Interest After 360 Days, If My Spreader Does Not Prove a Paying Proposition to You. Quick, Prompt Delivery Now

That is my selling plan. Nobody can beat it. Nobody can touch it. It has them all on the run. Galloway is a whole race-track ahead of all competition in spreader proposition and price. Remember, I pay freight. When I added to my factories the Kemp Manure Spreader Factory, conceded to be the largest in the world, formerly owned by the International Harvester Company, now owned and equipped by me with the very latest automatic machinery throughout, I did this: I called in my factory superintendent and said to him—"How many Galloway Manure Spreaders can my make a day now?" He said, "We can make 100 a day—30,000 a year." I said: "All right—get out your pencil. The first thing you do, figure how much you can save farmers on the price, based on 30,000 capacity." He figured it out mighty quick. He says to me: "If you can sell them we can make them. We can save \$5.00 apiece in cash to the farmers if you can sell 30,000." I said: "That is the idea. That's the stuff. We will do it. They will buy them. They know me and they know my spreader."

THIS WAY ALONE I'LL SAVE THE FARMERS \$150,000 EXTRA, BESIDES \$25 to \$50 A MACHINE THIS YEAR IN CASH MONEY. Are you one of them? Try me. Get my new Clincher 1910 Proposition and my Catalog today.

Wm. Galloway, President
The William Galloway Co. of America
109 Galloway Station, Waterloo, Iowa

Spend 1 Cent and Make 50 Dollars BOOK FREE

William Galloway
109 Galloway Sta.
Waterloo, Iowa

Rush your special 30-day, pre-paid-freight proposition to me with your big Galloway free Spreader Catalog.

Name.....

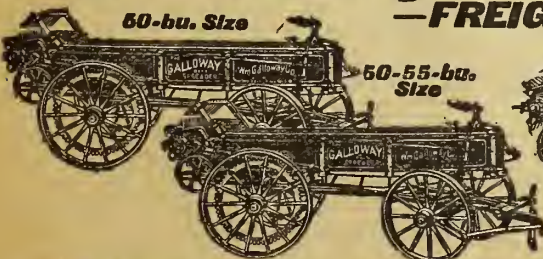
Address.....

City or Town.....

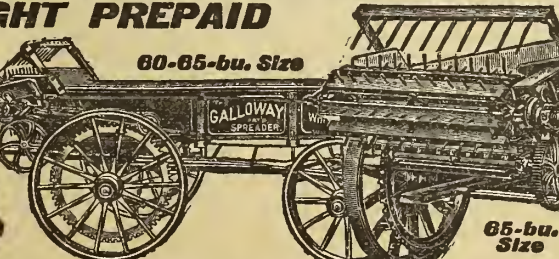
County.....State.....

IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. Besides the Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader, remember, also, the Galloway Cream Separator, also Gasoline Engine on same direct plan. If interested, ask for my Engine or Separator Catalog—Free. Say which.

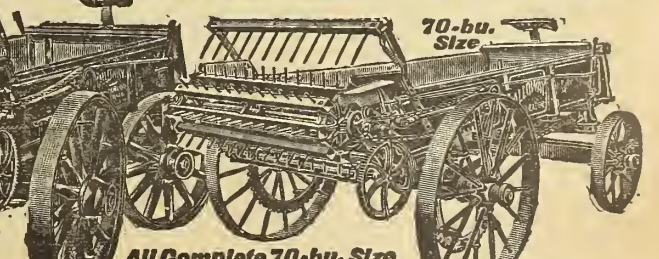
The Great Galloway Line of Spreaders Which One May I Send to Your Farm—for a Month's Free Trial? —FREIGHT PREPAID



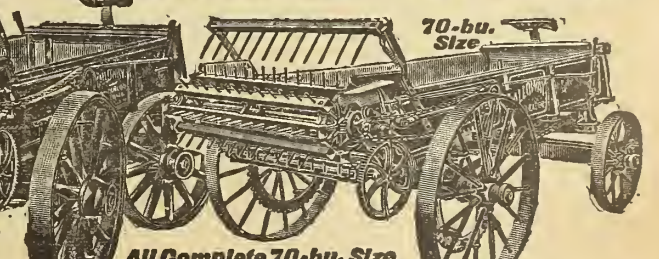
50-bu. Size



50-55-bu. Size



60-65-bu. Size



70-bu. Size

All Complete 70-bu. Size Only \$90, Including Gear, Force Feed and Mud Lugs

Freight Paid East of Rockies and N. of Tenn.

Outlook for Beef and Beef Cattle

A discussion engaged in by practical men—men who are especially posted on the feeding and marketing of beef cattle.

ALEXANDER A. ARNOLD, Trempealeau Co., Wis.:—The high prices of late for corn have often caused loss to the feeder, but from this on for a term of years the prospects are bright for well formed and finished beef cattle. When, as at present, there is a less per capita of cattle in the country than ever before then must a good demand prevail. The prices are not so high as to curtail the demand. The trust and best business men have found that however much they tried to control the market when they have forced it too high they have killed the goose that laid the golden egg. Dairying has been a profitable business of late, but it has glutted the market with what the stock yards men call "clothes frames" and the calves have been mostly sold for veal. Consequently the total amount of cattle is growing less instead of keeping pace with our population. The beef feeder in this beef-eating nation, where the best is none too good and there is plenty of money to pay for it, should produce good beef cattle and no other. A car load of fall-finished steers if properly fed and handled will command fair prices and is a thing of beauty and joy forever.

R. S. BRUNKER, Juneau Co., Wis.:—It has been suggested that beef production will be cheapened by using cheaper feeds. I cannot see how feeds will be any cheaper until lands and labor are lower in price or until prices of all grains go down. There is a point, however, which does not always receive full consideration—range men pay \$2 per head more for a steer without horns than for one with horns. This shows clearly

ly that it cost' in labor and shrinkage of steers \$2 to dehorn even when done on a large scale. Another way of stating the same thing is a herd of cattle intended for beef purposes are worth just \$2 per head more born hornless on the range and surely are worth \$5 per head more to corn-belt farmers if born hornless. (Most farmers are satisfied if they can clear \$5 per head directly from each steer.) I believe beef cattle will stay at or above present prices until labor, land and all feeds go down. Certainly the registered beef breeders have seen dull sales which have brought the producer in many cases less than cost. Fortunately conditions are about to change. Our experience in the past two months has been that we have had the strongest demand and best sales we have had in ten years. We must make minimum feed produce maximum of beef by breeding right and by feeding balanced rations.

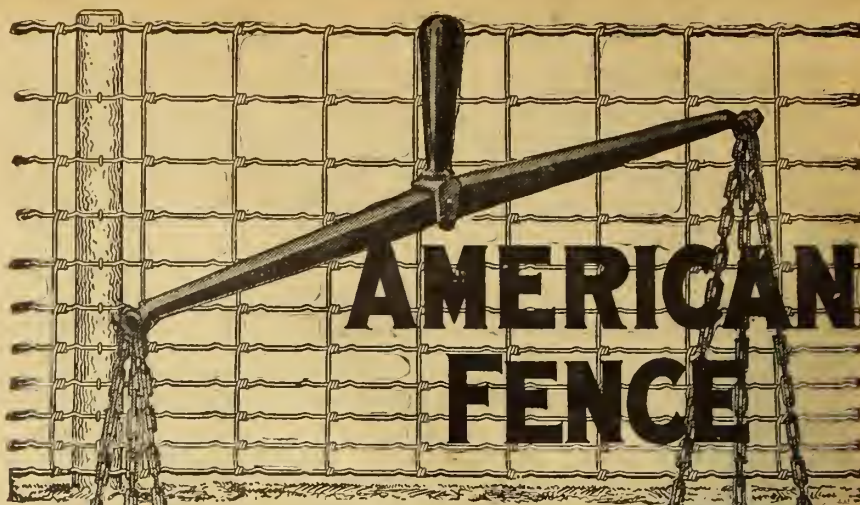
PROF. ANDREW BOSS, University of Minnesota:—In the past cheap food products have led to extravagant methods of feeding and large wastes in food products. There is no doubt in my mind but what the production of beef can be greatly cheapened by the use of coarse forage and hay crops and by limiting the amount of corn and other grains fed. Feeding experiments conducted at several of our state experiment stations seem to indicate that quite as profitable results could be obtained by cutting down the grain ration at least one-half and supplying nutritive but cheap rough feed instead. The closing of the western ranges, it seems to me, is another factor that must be counted in the production of beef in the future. It will only be a few years until all beef must be produced on our smaller farms. While they may not be forced to maturity so rapidly I believe that the general policy will be to grow the young stuff on pasture and cheap rough feeds, giving them a short finish on the by-products of the grain and forage crops. Under these circumstances the supply of beef will be more or less limited and I cannot but believe that the price must go higher. I do not look for four or five-cent beef to again reach the American consumer.

O. H. M., Grant Co., Wis.:—The casual observer when reading the market quotations on fat beefes at the central markets is liable to get his thinking cap out of the closet where it has hung for a few years, for a seven to ten-cent market for anything good to choice means compensation to encourage the breeding and feeding of beef cattle on the small farms, where dairying has been the only source of profit from the bovine family. While dairy products are not on the bargain counter, nor even sliding that way, the beef man is certainly wearing a smile that will take at least five years to wear off. I am an optimist I will admit and why not? First, carefully look over the records of veals sent to market each year running thousands in advance of the year previous. Secondly, the nursery of the western cattle (Texas) culling in the cows and heifers. The high prices of the last season has been an opportune time for the range man to clean up with the balance on the right side of the ledger. In this they are very fortunate. The homesteaders are settling by the thousands where they have turned grass into choice beef. I do not mean to say there is no place left to range cattle, but the area is certainly reduced, to what extent I would be afraid to say.

This much works to curtail the production, while consumption, we must reasonably expect to increase with our increasing population. In the last two years our exports have decreased so that at the present rate in four years we will not have a live beef for John Bull.

Thanking him for past favors we have to turn our attention to the problem of feeding our own people. This

(Concluded on page 18).



Made of Hard, Stiff Wire, of Honest Quality

A Heavy American Fence Costs You No More Per Rod Than Lighter Fences of Other Makes

A roll of heavy fence means big wire. Big wire means more strength and longer life.

Insist upon the dealer weighing the roll of fence he sells you. This will tell the story quicker than any other way, for you cannot always tell the size of wire by eye. American Fence will stand this test against any fence made, and will prove its greater weight. Why, then, pay the same money for a lighter fence?

American Fence is made of hard, stiff steel. It is made of a quality of wire drawn expressly for woven-wire-fence purposes by the largest manufacturers of wire in the world. Galvanized by

latest improved processes, the best that the skill and experience of years has taught. Built on the same elastic hinged-joint (patented) principle, which effectually protects the stay or upright wires from breaking under hard usage.

Test, judge and compare American Fence under any and all conditions and you will find that the steel, the structure and the galvanizing are equal in durability, strength and efficiency to the hardest uses.

**F. BAACKES, Vice-Pres. & Gen. Sales Agent
American Steel & Wire Co.**

Chicago New York Denver San Francisco
NOTE.—Dealers everywhere. See the one in your town and have him show you the different designs and give prices. Also get from him booklet entitled, "HOW TO BUILD A CHEAP CONCRETE FENCE POST," furnished free for the asking.

To Fence Buyers

I Want to Send You This Free Book

before you buy a rod of fence. Take my word for it, it will pay you to give me the chance. It's a book about

EMPIRE

All-No.-9 Big Wire Fence

I've had my say about fence in this book and I want you to read it. Most profitable fence in the world to buy, as I'll show you.

THERE'S A NEW THING ABOUT IT

It's now sold delivered to fence-buyers everywhere—not just in certain sections, but everywhere in the U. S. Plainly priced in the book (factory prices) and the factory pays the freight to your railroad station.

Send me a card or letter for book right away. I'm going to send out 45,000 of these books to farmers this fall, but I'll get them out promptly. Address **FARMER JONES, Fence Man for BOND STEEL POST CO.** 37 E. Maumee St. Adrian, Mich.

14 3/4 Cents a Rod

For 22-in. Hog Fence; 15 3/4-c for 20-in.; 18 3/4-c for 21-in.; 22-c for 24-in.; 25-c for a 27-in. Farm Fence. 50-in. Poultry Fence 33-c. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.

KITSELMAN BROS.,
Box 290 MUNCIE, IND.

BROWN FENCE

For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. We pay freight

The Brown Fence & Wire Co.,
DEPT. 34 Cleveland, O.

FARM FENCE

15 1/2 cts. a rod

For a 26-in. high Hog-tight Fence. Made of heavy wire, very stiff, strong and durable; requires few posts. Sold direct to the farmer on 30 DAYS FREE TRIAL. Catalogue free.

INTERLOCKING FENCE CO.
BOX 17 MORTON, ILLINOIS.

FENCE STRONGEST MADE. Built strong chick-en-tight. Sold to the user at Wholesale Prices. We Pay Freight. Catalogue free.

COILED SPRING FENCE CO.,
Box 20 Winchester, Indiana.

THE WORLD'S GREATEST FENCE

Sent Straight To You on

30 Days' Free Trial

We Pay The Freight

An offer for the farmer who wants the best fence produced at the lowest price a life-time fence can be made for. Advance Fence isn't just a boundary line. It stands for system and advanced value in property. Any farmer who subdivides his land into plots for crop rotation is systematizing his farm business. A built-to-last, sound-value, substantial-looking fence means to the owner of the land, and every man who works on it, exactly what a modern, substantial factory or office building means to every man doing business in the building.

ADVANCE FENCE "The Fence That's Made in Elgin"

Is An Investment That Pays Big Dividends

What the farmer puts money and protection into, he's going to get money and protection out of.

Advance Woven-Wire Fence is the best looking—strongest constructed, longest lasting fence on the market. To prove it, we make our great offer. If the fence isn't O. K. to you, and more, send it back at our expense.

We sell to you direct—no middleman—therefore the price is right—one profit only after making.

Advance Fence is made of Solid Wire, not wire cut and spliced again. A cut wire weakens. Our stay wire is continuous, woven in with the main top and bottom wire running the entire width of the fence from one stay to the next. Made of the best basic, open-hearth steel, galvanized with a heavy coat of 99-per-cent-pure spelter—that means rust proof.

Advance Fence always stays taut—straight and handsome. Prove it for yourself. Write us for all particulars. Remember, we pay freight and guarantee safe delivery.

Don't Pay Two Prices—Write us Today

ADVANCE FENCE COMPANY **BOX 107 ELGIN, ILL.**

I WILL SEND YOU A "DAN PATCH SPREADER" ON
4 MONTHS FREE TRIAL
I'LL QUOTE YOU SPECIAL FACTORY PRICE AND LET YOU PAY ON
LONG TIME EASY PAYMENTS



I'LL PAY ALL FREIGHT
AND GIVE YOU
4 MONTHS FREE TRIAL
ON YOUR OWN FARM

TWO BIG
BOOKS
FREE AND
MANY
SPREADER
SECRETS
REVEALED

I WANT TO SEND YOU A DAN
PATCH SPREADER

for a 4 months' free trial test on your own farm and then if you decide to keep it after 4 months' free trial you can pay for it on long time easy payments. I quote you my special low factory price direct from my big Dan Patch Spreader Factory, and make you the most liberal easy payment spreader proposition you ever heard of. I give you plenty of time to put this spreader to the hardest possible test on your own farm and then I give you plenty of time to pay for it on easy monthly payments so that the spreader will more than earn its cost before you complete payments.

ALL FREIGHT PAID BY US

I not only quote you special low Factory Price, but pay all freight charges besides — so you'll know when you get my special price exactly what your machine will cost you, laid down at your station. My special factory price — freight paid — 4 months' free trial — long time easy payment plan is making a sensation in the spreader business this season and I want you to get my world-beater spreader proposition before you even think of buying, for I honestly believe I can give you a clean cut \$40 excess spreader quality over and above any other spreader made at any price.

REMARKABLE EXCLUSIVE
FEATURES

My Dan Patch Spreader represents ten years' steady application of the best spreader ingenuity and brains ever devoted to the business — I want to tell you about a splendid spreader discovery — the Automatic Load Release — the one thing that absolutely insures

even, uniform spreading of all kinds of manure under all conditions — this is all pictured and described in my big 12-inch, 4-color free Spreader Book.

EASY MONTHLY PAYMENTS

I'm so enthusiastic over the success farmers have had in the past years with my uniform Distributing Spreader Discovery that I want every one of my farmer friends to give this great machine a 4 months' proof-test free and demonstrate to their own satisfaction that I've got the spreader question settled to the satisfaction of every farmer and for all time to come. Send for my big 12-inch, 4-color, free Spreader Book to-day and I'll give you the opportunity to give my great Dan Patch Spreader a full season's test at my risk and expense, and then if you decide that I'm right about this spreader question, you can pay for your spreader in easy monthly payments.

SPECIAL FACTORY PRICE

I make my Dan Patch Spreader in 5 sizes — each size has 5 distinct feeds and I make both the wagon-box spreader and complete spreader. My line of Dan Patch Spreaders is fitted to all uses, purposes and conditions — for small farms and large farms — and every one is sold direct from my factory straight to you at a Bargain Factory Price and all freight paid by me. My regular business, the largest of its kind in the world, enables me to make exceptional spreader offers and quote the lowest prices ever made on quality spreaders, and I can make you a clear \$40.00 quality saving on any one of my five styles. I want you to get my straight-from-the-factory, money-saving, easy payment Spreader Proposition, for it'll prove an eye-opener on this spreader business for a great many farmers.

SEND FOR MY BIG FREE 4-COLOR
SPREADER BOOK NOW AND GET
MY "SPECIAL FACTORY PRICE
EASY PAYMENT" SPREADER
PROPOSITION

You'll be delighted with my Big Colored Spreader Book and fascinated with the many beautiful pictures of Dan Patch 1:55 and my full line of Dan Patch Spreaders in colors. The front cover shows a fine view of Dan Patch and right in the center of the painting there stands a beautiful 4-color view of the greatest spreader discovery known to the business — it's the Biggest Spreader Book ever Published and contains the most complete account of the spreader business ever published — besides that, it contains many pages of startling information about spreader quality and efficiency and reveals spreader secrets that will open the eyes of many who have never had an opportunity to learn the inside of the Spreader Business. Get this great Spreader Book and my "Special Factory Price Easy Payment Spreader Proposition" before you take another step toward getting a spreader. Send me the coupon today. I just want this one opportunity of opening your eyes to these spreader facts; and I'll guarantee my big Spreader Book will repay you a hundred times over for the little effort it will take for you to send me the coupon now.

JUST WRITE ME
THE EASIEST
WAY — ON A
POSTAL, OR
SEND THE
COUPON
NOW.

M. W. SAVAGE, PRES., M. W. SAVAGE FACTORIES CO., Minneapolis, Minn.
Dear Mr. Savage: Please send me your Big 4-color Spreader Book, giving full facts about the spreader business and our 4 months' free trial offer — also fully tell me about the Dan Patch spreaders and our Special Factory Price and Easy Payment Spreader Proposition, and show me how to save money on my spreader purchase.
Name..... Town..... State..... R.F.D.....
Iowa Homestead.

The New Edition of my valuable Book on Manure Values, called "Barnyard Gold" is now ready. If you wish a free copy of this book, also, just put an X in this square.

LISTER'S SHORT-HORN SALE.

One of the good Short-horn sales of the season was held by Mr. John Lister, of Conrad, Iowa, on Tuesday, December 14th. Mr. N. A. Lind, of Rolfe, Iowa, topped the sale, securing the Victoria cow, Victoria Blossom, and bull calf, at \$280, and was a liberal bidder and buyer of the better sorts. Mr. J. L. Reece, of New Providence, Iowa, secured Pleasant Ridge Belle, and bull calf, at \$210, and the two-year-old Orange Miss 4th, and bull calf, at \$150. Mr. E. R. Silliman, of Colo, Iowa, was the buyer of the good two-year-old heifer, Miss Mary, and heifer calf, at \$205. Colonels Bellows and Mason did the selling in a high-

ly creditable manner. A list of animals selling for \$100 or over is given below:

FEMALES.

Imp. Belle of the Archers, ten years, Lordly Archer, and b. c., N. A. Lind, Rolfe, Iowa \$200
Pleasant Ridge Belle, three years, Fearless Victor, and b. c., J. L. Reece, New Providence, Iowa 210
Victoria Blossom, six years, Crimson Chief, and b. c., N. A. Lind, 280
Lady Lovat, two years, Lovat Prince, John Rasmess, Lake City, Iowa 155
Do-Not-Mar, nine years, Victor Baron, and b. c., M. W. Myers, Beaman, Iowa 160
Gladness 2d, three years, Fearless

Victor, same 175
Princess, five years, Fitz Eustace, same 135
Miss May, two years, Pride of Fashion, and c. c., E. R. Silliman, Colo, Iowa 205
Ermina 20th, eight years, Orange Boy, F. H. Ehlers, Tama, Iowa 140
Orange Miss 4th, two years, Fearless Victor, and b. c., J. L. Reece, 150
Dora Victoria, three years, Fearless Victor, and b. c., E. S. King, Grundy Center, Iowa 200
63 Duchess of Gloster, one year, Fearless Victor, N. A. Lind, 160
Sultana Barrington, Village Sultan, M. W. Myers 125
Cumberland Belle, nine years, Cumber-

land, and b. c., G. M. Haskin, Whitten, Iowa 105
Pleasant Ridge Rose, four years, Royal Admiral, and b. c., C. R. Stubbs, Conrad, Iowa 147

BULLS.

Victor Matchless, one year, Fearless Victor, Chas. Randall, Marshalltown, Iowa 100
Fearless Major, one year, Scottish Ensign, E. S. King, Grundy Center, Ia. 150

SUMMARY.

27 females ... \$3,520.00; aver. \$130.40
2 bulls 707.50; aver. 88.43
35 head 4,227.50; aver. 120.81

OUTLOOK FOR BEEF AND BEEF CATTLE.

(Continued from page 16.)

duty naturally falls to the farmers and stock growers. We have to turn our attention to live stock as the only way to maintain the fertility of our farms to grow the grain to fatten our meat-producing animals. I consider cattle the best animals for this purpose, as they are capable of turning corn, hay, straw and such rough forage as we may grow into a marketable commodity in the shape of beef and furnishing a large supply of manure with which to grow larger crops. There certainly seems to be no danger of an oversupply for some time, as we have to produce enough to supply the normal demands, and make a gain to keep pace with the increase, unless there should be some unforeseen obstacle there cannot be danger of a material slump for several years to come.

The production will cost some more to be sure; land values have increased, corn is reasonably sure of a fifty-cent market. "The main factor in making prime beef," can be used more economically by using the silo for part of the crop. Alfalfa grows in every beef-producing state, and with these supplemental feeds we can produce our beef cheaper than by the old method of corn and hay.

I might say in this period of transition we have a new form of beef animal in the yearling, as our markets of the last year and champion car lot at the late International indicate a new era you might say which favors the producer by cashing his stock earlier by a year and saving that calf fat which would be lost in an elder animal. The last 300 pounds are more costly than the first.

The way I view the situation, is, that the man with a herd of beef cattle, has a very valuable asset and the man with a surplus of feed on hand is sure of a good market for it by filling his feed lots with some good, growthy feeders.

STANLEY R. PIERCE, Creston, Ill.:—Referring to the beef situation of today, I think there is surely a marked shortage and this will continue at least for a period of five years. The fat cattle will in the future be produced by the small farmer and fed from the time they will eat and be marketed as yearlings. I have never seen a year since I have been farming that this would not bring good returns; in this way any farmer can keep from ten to 100 breeding cows and be marketing that many yearling steers and heifers; each year in this way he will have the cows to consume his cheap rough feed and graze his waste land and new seeding while the young stock is consuming the grain and making straw into manure. To make good yearlings they should be started about August 1st on grain, weaned the last of October, and fed

until the market wants them, say from holidays on until the next fall. I recently marketed two loads of registered Angus yearlings that were fed and raised in this way. They were short yearlings, weighed 1,150 and 1,220 pounds and brought on the open market \$9 and \$9.25 per cwt. Now these cattle made plenty of money, lots of good manure for the farm and have been a pleasure to care for and look at. They were on grass all of the grass season and only had a full feed of grain the last three months of the feeding period. Now this can be done by any farmer much easier than a dairy business. It is just a chore morning and night to feed a drove of steers.

PROF. J. H. SKINNER, Purdue Experiment Station, Indiana:—I feel entirely incompetent to even prophesy as to prospect of making cheaper beef. I hesitate to make any statement because no one can tell how things are going to work out. I think it is evident that corn-belt farmers will have to produce more cattle on their farms. They will have to reduce the cost of beef by study and an effort to utilize cheaper feeds, which doubtless means that there will be more use made of rough feeds and less of grain. I am also of the opinion that corn-belt farmers will come to grow very much more alfalfa than they are growing at present. Farmers undoubtedly will have to study their crop rotation systems with a view of growing feed for cattle.

BEN E. JONES, LaCrosse Co., Wis.:—I assert that there is a scarcity of beef cattle in this country and to substantiate my assertion, I present a few tables issued by the United States Department of Agriculture, giving statistics of the cattle situation.

Exports of live stock for the first nine months of 1907-8-9:

	No. of head.	Value.
1907	310,159	\$26,570,194
1908	221,460	19,161,530
1909	135,455	11,797,368

The above table shows that 174,704 less cattle were exported in 1909 than during the same period of 1907, making a difference of \$14,772,826.00 in the value of same.

Total number exports of cattle, beef and beef products for nine months of 1907-8-9:

1907	\$56,900,377
1908	38,285,195
1909	25,518,051

These figures indicate a probable decrease in our exports of over \$20,000,00 for the present year.

Receipts of cattle at fourteen of the principal markets of the United States for the first nine months of 1907-8-9:

	Number of head.
1907	8,383,884
1908	7,555,663
1909	7,530,984

Calf receipts for same period, nine markets:

	Number of head.
1907	948,383
1908	885,378
1909	937,418

These figures show a decrease of 852,900 cattle marketed this year as compared with same period of 1907, while the decrease in calves marketed is only 10,665. This indicates a drawing upon the future supply to fill present demands. The International sale of fat cattle averaged \$2.32 higher than 1908 and \$4.97 higher than 1907. Choice fat steers are quoted at \$9.25 at the Chicago market at this writing.

During the past five years the range cattle industry has been practically brought to a close. In the Pan Handle of Texas where the largest breeding herds in this country had been established, the increase in the value of lands has been so great that the large cattle companies of that section are selling their lands to settlers and disposing of their cattle. The same condition is true of all the western states. In the meantime, the population of the country is increasing rapidly, and as population increases the demand for meat increases. America is a beef-eating country and as the foregoing tables show a large decrease in beef cattle, it means higher prices for beef. When are we to get feeders to fill the large feed lots of the middle West? The ranges can no longer fill these demands, as the most of the settlers who have settled in the new country are not able financially to embark in the cattle business.

The small farms of the middle West

A Single Season of Southwest Farming often pays for the farm itself—

Leave the *thin-soiled* acres. Give up *struggling with worn-out* ground. Change *existence into real* living. Enjoy better *health*. Come where the *bank balance* beckons; where *you* can have the best things of life, where your *children* have a *future*, and where you can *save* money *every* year—come to

The Great Southwest

Southwest *onions* and *tomatoes* have sold as *high* as \$300 an acre. Cotton, cane and garden vegetables all *flourish* there. Rich undeveloped lands in Oklahoma, Texas, Louisiana, New Mexico and Arkansas can *still* be bought on *ground-floor* terms. The right *place* for the right *people*.

Write today and tell me what section you are interested in and I will send you free some valuable books that will open your eyes to new possibilities waiting for you in the Southwest.

L. M. ALLEN, Passenger Traffic Manager 97 La Salle Street Station, Chicago

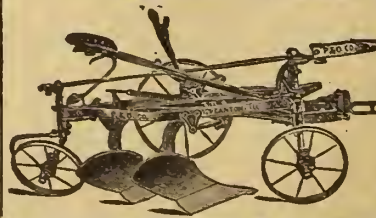
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The Largest and Oldest Permanently Established Plow Factory in the World.

will have to furnish these feeding cattle for many years to come. The high price of all dairy products during the past years have tempted those farmers who had good herds of beef cattle to close them out or they mated them with a dairy beef bull, the set of these bulls are known at Chicago markets as "knot-heads."

The future outlook of the beef cattle industry is certainly a rosy one, but whoever engages in the business must have the right material to work with and must pursue the modern methods of feeding.

Here is another problem for fireside

discussion that is going around: "A train one mile in length is standing on the track with the engine at the depot. The train pulls out and as the caboose comes to the depot the front end of the train and gets off the engine when it stops at the other town depot. The towns are three miles apart. How far did the man walk and bow far did he ride?"

When an Oskaloosa man read in the paper that real estate in New York sold for \$825 a square foot he said. "Guess I would be able to buy just about enough of that to drive a carpet tack in."

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To Be Tanned and Made Into Coats, Robes or Rugs Send for This FREE BOOK Before You Ship to Anyone This Book Tells You Everything

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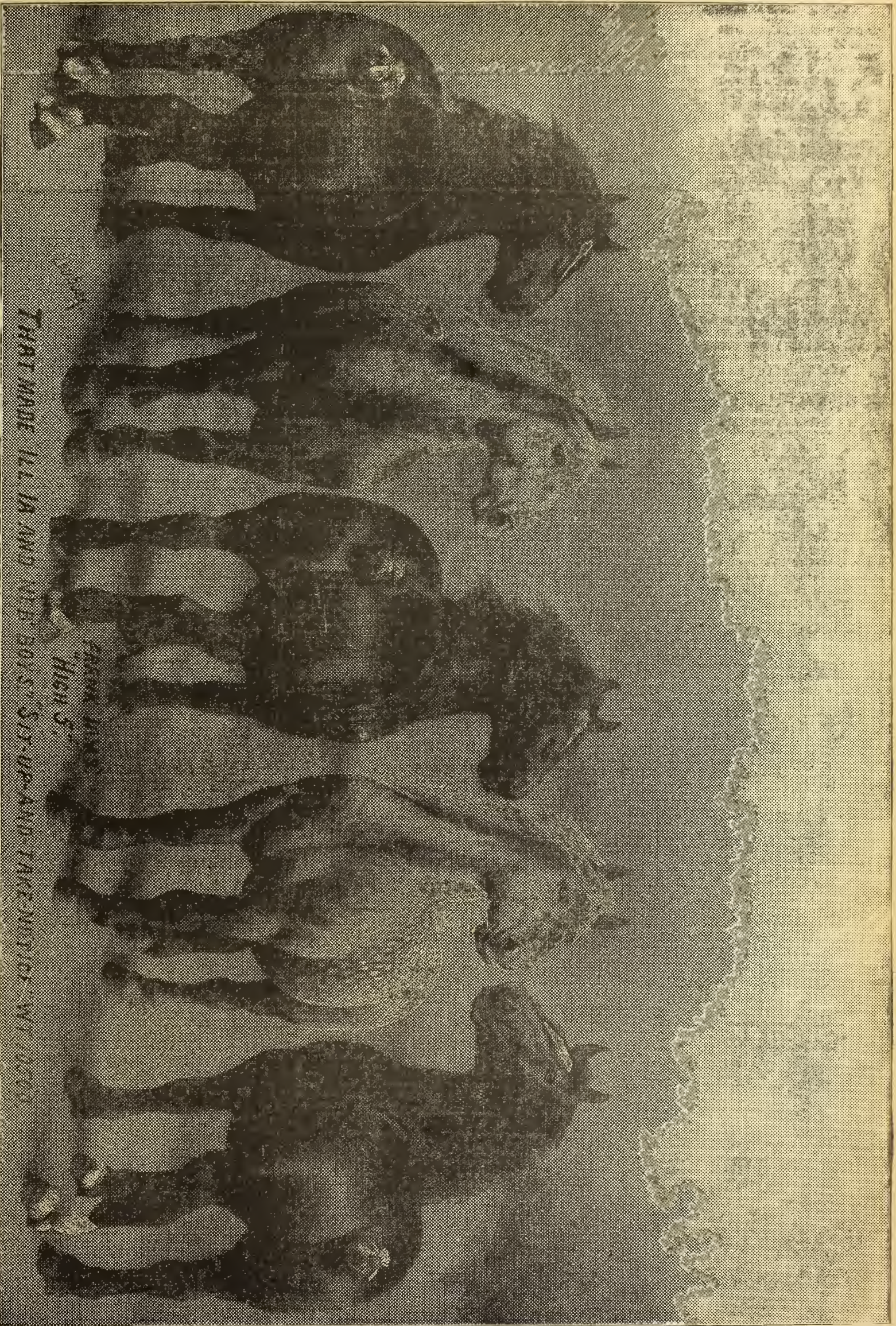
Don't ship a hide until you hear from us. Write for Book-let Today.

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Des Moines, Ia.

IAMS' HORSES.

Mr. Frank Iams, of St. Paul, Neb., is still in business. He has possibly the best string of stallions and mares he has ever owned. Concerning his offering he says: "O, you Ikey stallion buyers! But I love 'Iams, the big horseman,' and his 'Peaches and Cream' imported stallions and mares. He is the 'real money saver' to stockmen. He will save horsemen \$300,000 in 1910, and sell them better and larger stallions and mares. His 1910 new horse catalog (just out) is a 'bunch of gold,' a sure 'eye-opener' to stallion and mare buyers. It is the 'book of books' in the 'horse world'—full from cover to cover of facts, truths, 'business propositions,' and 115 beautiful illustrations of the finest and largest imported stallions and mares in the United States. They are in 'every pose'—(true to life). In fact it is a 'warm book.' It will show you 'Iams' kind'—the 'wide-as-a-wagon drafters'—the real 'peaches and cream' imported stallions and mares that 'cut a bunch of ice' in the United States. It will 'show you' the 'tricks of the stallion peddler' and 'auction block salesman,' and why you should buy horses of Iams. It is the finest, most elaborate, most original up-to-date 'horse book' in the world. Iams' 1909 importation of '200 Percheron and Belgian kings and queens' are better than the illustration and are ready for good selling at bargains. This is what Xmas Ikey and Uncle Hiram said after doing business with Iams for five years, buying five stallions and ten mares that have bought them 'another farm' and a 'new house,' and 'diamonds' for Mary. Iams' stallion buyers—Iams is the 'live-wire' horseman. He has 'the goods as advertised.' He is the 'man behind the dough' that 'shows you' more first-class 'big ton drafters' with big bone, quality and finish than can be seen at any importing barns in the United States for 'money or chalk.' 'Xmas Ikey Boy,' 'waltz me around again' and land me at 'Iams' horse box-office' and 'four mammoth horse barns,' 'filled to the roof' with imported stallions and mares at 'bargain prices' and that I am 'nervous' to see. Iams' Xmas horses, they are 'high class.' Iams' 1909 importation of horses, which is the largest bunch and best lot of big-boned, big drafters ever imported by one man to the United States. Yes, 'papa, dear,' Iams is a horseman in a class by himself and ten years in the lead. 'He stirs up the buyers,' 'hypnotizes' them with big flash horses at fifty cents on the dollar. He cuts the middle out of prices on 'top notchers.' 'Iams' twenty-seven years of successful business makes him a safe man to do business with. Iams actually sells more horses than any ten importers in the United States, but he 'don't want the earth and fence around it' for profits on one stallion. Farmer horseman, be a 'foxy stallion buyer.' Don't let any 'hammer knocker' 'hand you a lemon' by selling you a '\$1,200 stallion' for \$3,000. An imported stallion will make you \$1,000 in service fees in 100 days. Not in the world's history have horses been so high in price, or so scarce. Farmers, 'get into Iams' band wagon,' breed big drafters. All railroads lead to 'Iams' stallion and mare emporium.' Iams is the largest individual owner, importer and breeder in the United States. Send him an order for a stallion and two mares; you will buy better horses for the money than you

IAMS' BIG FIVE—THE BEST FIVE THREE-YEAR-OLDS IN THE UNITED STATES—IAMS' KIND. SEE ADVERTISEMENT ON PAGE 57



would select yourself. He is selling 'peaches and cream' stallions at 'special panic prices for ninety days,' saving buyers \$1,000 on a 'top notcher.' He guarantees to show you the 'best bunch' of big, sound 'imported stallions' and mares owned by one man in the United States, and horses you will wish to buy, or pay you \$500 for your trouble to see them. Iams' 'town of barns' is filled with fresh importation of 200 Percheron and Belgian stallions and mares, two to six years old, weight 1,700 to 2,500 pounds; 90 per cent blacks, 60 per cent ton horses. (Pedigrees do not belong to horse unless he or

she is branded.) Iams' imported stallions and mares are registered and branded and are 'business proposition' that 'jar the chorries' on a wide-awake horseman's hat. They are winners of eighty prizes and medals at Paris and Brussels. 'Sit up and take notice.' Iams sells 'show horses' that will take the mortgage off the farm and a 'little bit more.' For twenty-seven years Iams has 'bumped the heads' of 'stallion peddlers' with better and larger stallions, forcing the importer and breeder with inferior stallions and mares to sell them on the 'auc-

(Continued on page 41.)

Country Road Building.

To the Editor of The Homestead:

There is much written advice nowadays about how to build better roads, a good deal of which is not of a practical nature because it calls for the expenditure of more money for salaries of "expert commissioners," etc., than the taxpayers are willing to stand for. I lay no claims to possession of superior knowledge, but I know that we could have much better roads than we have, were the money raised as "road tax" used to better advantage and existing laws enforced, and possibly a few more enacted and enforced would be a further benefit. One of the principle reasons why much of the road tax is practically thrown away is on account of tax being "worked out" under the supervision of a district pathmaster. He may be ever so competent and honestly endeavor to get results, but his jurisdiction is so circumscribed and his authority so insignificant that the taxpayer "works" him and the road tax about as he pleases.

Were a town road supervisor elected by the votes for a term of three or more years and paid \$1,000 per year and a bond given by him to the town for amount of road tax assessed, he would be very certain to see to it that the bond would not be forfeited, and that something would be done to show results for the money expended by him. His office would be of enough importance to compel obedience to his orders in regard to matters that affected condition of highways. Roads would not be plowed up and farmed within a foot or two of the wheel

tracks; grade ditches filled up and the water turned into the road; obstructions placed just outside of the wheel track to compel travel within a ten-foot strip of road, etc. The road should have no "worked out" tax without his consent but should be paid in cash with other taxes and paid to his order. He could then let a taxpayer "work out" part or all of his tax and pay him the cash for it, provided he saw fit to do so. Were a law enacted to place all fences on a line two rods from center of road and place all telephone poles out to fence them, were it practicable to do so, level the road and seed to grass all of the four rods not required to make grades we could have side tracks for sleds in the winter that would be "good sledding" when the grade was bare. The owners of the land along the road could cut the grass should they choose to do so, if not, they could give the overseer notice in time and he could make arrangements to have it cut while it was of value for hay.

The road grader is a fast road builder and does the work as it should be done when properly handled, but it must have power enough to draw it easily and be kept sharp and in good repair, and have a person handling it who knows how to make a grade right or it is not as good a road tool as a good plow. Were the roads all graded as they should be where a road grader could do the work, and a plow and scraper used to make a grade where dirt had to be carried along the road to make fills in low places, then the "ruts" made by the wheels kept filled by the road drag, we would have "pretty fair roads" a good share of the time. Gravel could then be applied where practicable, also crushed rock broken up as it should be and there are many places where the right amount of sand would be a great benefit on grades, and on many sandy soils. The grades could be covered with the clay and benefited, rocky hills that wash away the dirt and are rough could be greatly improved by a covering of straw or spoiled hay which would hold the dirt and keep the rocks covered and also have a good effect as a preventive of ruts forming in the hill by water running down the wheel tracks.

It is evident to any one that one hour's work on the roads spent in clearing out ditches, when clogged up with leaves and other obstruction blown into them by the wind; filling up ruts before they become deep; and many other small items of repair, would save the expenditure of days in some instances; under a township system of doing the road work, the whole time of the overseer would be spent on the roads. This would insure the repairs being made of bad spots before they became of such magnitude that they required the expenditure of many times over the cost that it would take were the work done when it should have been.

I have noticed a tendency of writers about "good roads" in the farm papers and newspapers to represent that farmers and others of the common herd have not intelligence enough to build a wagon road and keep it in repair without the help of "experts," "engineers" and "road commissioners" at \$5,000 a year salaries, and many other recommendations that were they carried out in full would cost the state enough to build hundreds of miles of fairly good roads. No doubt there should be some state officer to attend to the distribution of state road funds, were there any forthcoming but "experts" and "engineers" would be costly and besides they would be very likely to know less about roads than a farmer.

It is not practicable to make a percent grade on a wagon road. The principle needed on a wagon road grade is to have the grade rounded up evenly and as high as it can be made without being so steep that there will be liability of loads upsetting in turning off from center in teams passing each other. Where hills are too steep and dirt has to be carried to fill at bottom of hill, any farmer of ordinary "horse sense" knows enough to distribute it properly to make the right "fill," and has this in his favor over the "expert" and "engineer." He knows how it should be done as well as they know and charges nothing for the knowledge. Then he does the work

CRESCENT BOILERS

Will cook your feed with less trouble than cooking on an ordinary stove. Simply light the fire, set your pipes and go on about your work. Will burn anything—cobs, chips or other waste. They get up steam in ten minutes, boil a pail of water in one minute, cook a barrel of ground feed, potatoes or other vegetables in thirty minutes; whole grains in forty. We couldn't take a Crescent away from 99 out of 100 farmers to whom we send it for trial. Let

us send you one now on 15 days' free trial. Write for our valuable booklet,

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which explains all about the Crescent Boilers and what others are doing with it.

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The woods are full of cheap, unreliable, short-lived engines that are dear at any price. You can't tell them by their looks always. That's why it pays to know something about who is back of the engine you buy; what goes into it; how it pleases its users, for in buying an engine you expect to buy but once in a lifetime. We have issued folder No. 230 which tells

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never disappoint because they are of the highest quality. Be sure to ask for Folder No. 230 to-day. It will pay you to get posted.

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ALL by going over the field once only with your sulky, disc or gang plow and the Kramer Rotary Harrow Attachment. It levels, pulverizes and makes a mulch of the "moist soil" that is not possible after the ground dries and "sets." Use the original and only successful machine of its kind,—The

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Awarded Gold Medal and Diploma at A. V. P. Exposition, Seattle. Also Diploma by Dry Farming Congress Convention, at Billings, Montana. So light-running that horses hardly notice additional draft. Made in styles and prices to suit every farmer. Implement Dealers everywhere sell on easy and reasonable terms—no freight to pay.

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telling about this wonderful implement, which effectively combines all the functions of the Harrow, Packer, and Pulverizer, in preparing a perfect Seed Bed. The Kramer Attachment is the greatest success of many years. Recommended by Departments of Agriculture everywhere. Don't delay, but ask for Free Book No. 14 and special prices.

THE KRAMER CO., Paxton, Ill.

Lightning Pitless Scales

New Pattern. Solid Channel Steel Frame

Channels are seven inches which is the height of platform from ground. Levers are octagon in shape giving greater strength. Bearing are Toolsteel. This Scale will last a life time with ordinary care. Equipped with compound Beam Free. Furnished absolutely complete except platform planks. Guaranteed accurate and tested to more than its capacity. Write for our prices and description before buying.

KANSAS CITY HAY PRESS CO., 126 Mill St. Kansas City, Mo.

for much less than they would get for telling how to do it. It is the history of human progress from time immemorial, when conditions become insufferable they begin to cure themselves. The first symptom of the change is manifested by loud protests and offer of a "sure cure" from those who know the least and would not dirty their clothes or hands with the work, which is the principal ingredient of the cure. No doubt the time has come, when there will be a radical change in conditions of country roads. But the farmers themselves will be the principal factor in bringing it about.

Howard Staples.

At the beginning of 1909 there were 25,000 acres of public land in Missouri. Now there are only 5,000 acres. Most of this was taken by cash entry, the buyers paying \$1.25 an acre. They sell it at an advance to foreigners who are able to raise remarkable crops on the rocky slopes.

SCOTCH COLLIES.

It is a well-known fact that a good, well-trained Scotch Collie dog has a value of from \$50 to \$100 on any farm. The fact lends interest to the advertisement of Mr. T. A. Stevenson on page 33. This gentleman has been breeding Scotch Collie dogs for many years and has from time to time supplied some of the best of the breed that have been sent out. At present he has a nice lot of youngsters coming on which are

30 FREE TRIAL Send No MONEY

30 Free Shaves

Just send us your name and we'll send you, free for thirty days, an imported Barber's Magnetic Razor. If you don't think, after you have tried it 30 days, that it gives you the smoothest and most delightful shave you ever had, you can send it back.

The Magnetic Razor is hand-forged from best India steel, ground in Hamburg by the most skillful grinders in the world. Full concave, perfectly tempered by Electro Magnetic process. Evenly balanced, medium stiff. Right for all beards. Neither too hard nor too soft; too thick nor too thin. High steel polish, sated shank where thumb comes. White celluloid or black rubber handle. A Dandy.

Dollar Strop Free

With this splendid razor we'll include free, while they last, our regular dollar magnetic Double Horsehide Strop, specially made to keep the magnetic razor in condition—no honing necessary. Use both 30 days. If satisfactory send us \$1.65, otherwise send them back. Thousands are using this Magnetic Razor, saving barber's bills and getting better shaves. Your name and address will bring both, with the reason why we make this amazing offer. Isn't it worth a trial? Send no money with your order.

Write tonight.
U. S. Cutlery Mfg. Co.
164 S. Clark St.
CHICAGO, ILL.

ready to ship or will be at an early date. These are good in individual character, of good color and markings, and will be found to be just about right for buyers. The present is a promising time to buy a pup, as he may be trained during the winter season without any loss of time. Mr. Stevenson's breeding dogs are all recorded and he furnishes pedigrees with each puppy sold and guarantees safe delivery. For prices write to Mr. T. A. Stevenson, Shannon City, Iowa.

DAY BY DAY

AGRICOLA

One great blessing coming as an aftermath of the Christmas holidays is that the culture of the heart has been brought up to an even plane with the culture of the head. Friendship is the greatest thing in all the wide world and a heartless friendship is an impossibility. Let the heaven of Christmas leaven the whole year.

Although friendship is the greatest blessing enemies rank among the things that we can not really afford to be without. A prudent enemy is better than an indiscreet friend.

How would you like to be a king? Do you think you could make good in governing a kingdom? We sometimes flatter ourselves that we could, regardless of the fact that we make somewhat of a botch governing the kingdom of our own individual minds. Self government is the fundamental of all government.

Agricola confesses to feeling a little stuck-up and filled with complacency because he filled the coal bin in the fall while the weather was mild and the roads good.

Our Christmas turkeys sold for twenty-four cents per pounds in Chicago this winter. Pretty expensive dinners some of the city cousins must have eaten.

Too many calves are confined in damp, dark pens. It is their inalienable right to have a dry, clean place and plenty of sunshine.

Corn silage and good clover hay will keep cattle happy, but to put fat on steers and fat in the milk pail, some grain is also needed.

Every time a cow humps her back because of cold she is swearing off from the milk habit.

Some preachers fail because of poor delivery, some because of poor stuff to deliver, but woe is he who has both these faults. So in farming, poor stock and poor feed for them, poor seed and poor cultivation, poor dwelling houses and neglected wives and children in them while the reputed lord and master loafs in town, will never spell prosperity and happiness, no matter what the president puts into his messages.

It is said that the Laplanders are the shortest people in the world and the Patagonians the tallest. I can understand why Jerseys and Holsteins differ in size as they do, but the Laps and Pats are unsolvable problems for me.

The Iowa station considers that it costs three cents per bushel for the farmer to shell and grind his corn at home with a gasoline engine and farm grinder, and says that it is more profitable to feed corn on the ear to hogs. It is comforting to be told that a scoop shovel is the only machine needed to feed hogs most economically, but I like a little ground feed to put into their drink.

To grind ear corn costs three and one-half cents a bushel, and to reground it so as to have it fine costs two and one-half cents more, according to Professor Kennedy. I find that once grinding makes a feed much liked by all kind of stock, and especially good for young stock not able to eat ear corn.

Horseradish does not go to seed in this locality, but it will hold the fort by the toe hold of its roots. I have a patch of it that is more than forty years old. Being in sod ground which

has never been plowed it does not spread, and is just large enough to furnish spring relish for meat victuals.

Honest, my brother, would you like to live in a land which has but one season? We sometimes think so and sigh for a summer land of flowers and all-the-year-around garden stuff, but the four square divisions of the year in the corn belt—winter, spring, summer, autumn—give us variety and each has a rare beauty inherent in itself, as well as by contrast. I do not know, but it may become tiresome in the New Jerusalem to sit under a palm tree and twang a golden harp world without end.

Institute lecturers should not lecture, but talk in terms of common currency. That is the secret of teaching, and the great teacher was a master of that method. Luther translated the Bible with the end in view to "make the apostles speak German." People get little benefit from that which they can but partially understand. We coin our bullion so we can know its value, not to make it more precious. Wisdom should be coined in current phraseology in order to pass current among the people.

Winter is here, friends, but take courage. We have crawled over the ridge pole and the days are getting longer and the sun is climbing higher.

Do not go in debt for luxuries. An eastern paper tells of a town in Maine in which 165 automobiles were sold last year and ninety-five mortgages were put on farms and homes to pay for these cars.

Blessed is he who has good friends. Destiny is ruled by friendship. Good books are among our best friends. We can go to them whenever we wish, and they will never turn their backs to us.

I have been young and am now on the western slope of life, yet never have I heard good music in an unhappy household. The music lover has melody in his soul.

The Week in Kansas.

To the Editor of The Homestead:

Without a change in the weather program, we are still in the grip of genuine winter. Snow has remained on the ground longer than ever before, according to the longest kept records in the state, and there is not yet the remotest sign of a change. Each night the thermometer registers from zero to only a few degrees above, while there is a comparatively slight change from the coldest to the warmest temperature of the day. This makes the weather not at all bad, since stock and people have got used to it.

The continued cold puts a sharp edge on the appetites of all stock, and a very great many who started feeding in the fall confident they would have enough are now wondering if it would not be a good plan to buy what can be picked up close at hand, in order to be more sure of having a plenty. A continuation of this weather for one more month would make all rough feed sell for a premium. Those who kept the corn binder going after they felt sure enough was already in the shock are glad of the extra acreage put up for feed.

The high price of fat stock is everywhere the subject of conversation. With hogs selling for nearly eight cents at the local markets and good beef cattle almost, but not quite correspondingly high, feeders are encouraged to make all possible gains in weight. Instead of selling hogs light, the tendency is to hold them until in prime condition, and when they are finally sold the seller wishes he had as many more of light weight to bring up to the heavyweight class.

The wind is in the southwest this morning, for the first time in several days, but it is blowing cold and there seems no likelihood of the remaining two inches of snow vanishing for awhile. December certainly holds the record for ceaseless winter.

Henry Hatch.

Coffey Co., Kan., Dec. 30, 1909.

ZILLER—THE FARMER SEEDSMAN.

Mr. Jno. D. Ziller, of Hiawatha, Kan., whose announcement appears on page 27, styles himself the "Farmer Seed Corn

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

MILLION ACRES Texas School Land for sale by the State; \$150 to \$5 per acre; only one-fortieth cash. 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands, J. J. Snyder, School Land Locator, 505 Congress Ave., Austin, Texas. Reference, Ansteth Nat. Bank.

770-ACRE Farm; 300 acres fine bottom land; cleared, fenced and in a good state of cultivation and free from stone; balance of tract is upland and has the virgin timber. Buildings fair; plenty of well, spring and running water; 8 miles of railroad station on Iron Mountain R. R., and 2 miles of an inland town. For further particulars address or call on T. J. Sweazea, Piedmont, Missouri.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

COME TO THE San Simon Valley, 50,000 acres of choice land can be homesteaded; land located within two miles of junction of two railroads, climate unexcelled anywhere; best markets in the country; all crops yield exceptionally well; fruit cannot be beaten anywhere. Address San Simon Valley Realty Co., Texvinton, Arizona.

COLORADO—20,000 acres of horticultural, agricultural and grazing land in sunny San Juan section of Southwestern Colorado; some of the best irrigated lands in the West; prices to suit. Our motto: "Let us show you." Liberal commission paid to co-operative agents. The Boyle Realty Co., Durango, Colo.

560 ACRES rolling to level farm land, well watered; ideal for stock; 2 miles to depot; \$5,500. 9 acres; improvements worth price asked; at depot; \$2,500. 80 acres; some fruit; fine springs; 1 mile to depot; \$1,200. Will take part pay in crops. West Florida Fruit Farm, Cottageville, Florida.

OREGON HOMESTEADS—Free government land in Harney County; largest undeveloped region in the United States. Over 3,000,000 acres of vacant land. Send \$1 for complete sectioned map, synopsis of land laws and general information. Archie McGowan, Burns, Oregon.

SELL your property for cash in less than 90 days; properties and business of all kinds sold quickly in all parts of the world. Send description today; we can save you time and money. The Real Estate Salesman, H. Funke Bldg., Lincoln, Nebraska.

FOR SALE or exchange for farm land. 12 head of trotters, yearlings, two and three year olds and brood mares, with records from 2:16 1/2 to 2:24 1/2. All registered stock. Address C. C. L. 817 3d Ave., South Minneapolis, Minnesota.

FOR SALE—North East Iowa farms, \$50 to \$85 per acre. 40 to 640 acres. Home seekers and investors, buy now while the price is low. Write for list, map, Wm. L. Maricle, 2506 East Elm Street, Des Moines, Iowa.

FARM 150 acres. Basement barn, 40x100; concrete floors; 10 room modern house. These buildings fine shape. Excellent farm; \$5,500, \$2,000 cash. Hall's Farm Agency, Owego, Tioga Co., N. Y.

TEXAS Gulf Coast prairie land for sale, suitable for corn, cotton, potatoes and all kinds vegetables. Close to good schools and churches. \$17 to \$37.50 per acre. G. T. Reinhardt, East Bernard, Texas.

COFFEY COUNTY, Kansas, the land of corn, wheat, alfalfa, clover and bluegrass; good water and fine climate; fine farms at \$40 to \$65 per acre. Write for list. Stewart Land Co., Le Roy, Kansas.

NORTH DAKOTA LANDS on ten years' time, crop payments at 6 per cent interest. Stutsman Co. Rich soil. Map and particulars on request. Address Frank L. Kellogg, Cleveland, North Dakota.

FOR SALE—160 acres in Comanche County, Oklahoma, will take full blood mares or stallion for part pay, or will trade for smaller farm in corn belt. Bert Whitcomb, Springfield, Iowa.

500 IOWA CORN farms, \$40 to \$150 per acre. Write for handsome booklet describing them. A. B. Shriver, Ground Floor, Manhattan Bldg., Des Moines, Iowa.

FOR SALE—Southeastern Nebraska's richest corn, alfalfa and diversified farming lands. Free list and information. Nider & Henrichs, Fairbury, Neb.

HAVE 864 ACRES, of which I will sell either 320 or 240 acres; 15 acres orchard; improvements. Write for particulars. B. H. Farman, Jack, Missouri.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

IMPROVED Nebraska farms and ranches for sale; no sand; in Greeley and Valley counties. Write Clem Meyers, North Loup, Nebraska.

FOR SALE—Ideal 240 acre stock farm adjoining O'Neill, Nebraska. Not sold soon might rent. Thomas Carlon, O'Neill, Nebraska.

640 ACRE improved farm for sale near county seat. A fine place. Address owner, Box 35, Akron, Washington County, Colorado.

FARMERS—write today for Idyls of Kansas and our new land list. Ford & Smeltz, Enterprise, Dickinson county, Kansas.

ALFALFA—HOGS—Dollars. Saline county bargains free, write today. Salina Investment Co., Salina, Kansas.

BARGAINS in Kansas land. Write for free descriptions and price list. V. E. Niquette, Salina, Kansas.

ARKANSAS farm land—The eyes of the world are on Arkansas. Address Fred L. Purcell, Warren, Ark.

FOR SALE—Missouri farms in corn belt, for home-seekers, investors. Hugh Tighe, Laddonia, Missouri.

WRITE for list of Kansas and Missouri farms for sale or exchange. W. H. Simonton, Fort Scott, Kan.

FOR EXCHANGES, quick sales and large list. address, Room 6, Continental Block, Omaha, Neb.

WRITE J. M. McCown, Emporia, Kansas, for new special bargain list of farms and ranches.

BOOK OF 500 farms and merchandise, trades free. Grabau Brothers, El Dorado, Kansas.

240 ACRES, highly improved. Write owner, Wm. Kellerman, Westphalia, Kansas.

Grower," and as such he has made a wonderful success and has built up a patronage that extends over many states. His business has grown because of the high-class seed corn he has sold at reasonable figures. As a showman he has been very successful and has developed a variety for which is claimed great yielding qualities and high percentage of show corn. He is also offering a complete line of other field and garden seeds. He is sending a finely-illustrated booklet to all our readers who write him, mentioning this paper.

REAL ESTATE.

FOR SALE or will lease for term years. 850 acres in Hayes county, Nebraska. Nearly all bottom land, bundered in cultivation; abundant running water, improvements good. Eight hundred in Chase county, four hundred bottom land, two fifty cultivated, big stream water, improvements first class. For sale, 640 acres in Adams county. Richard Sberidan, owner, McCook, Nebraska.

FOR SALE—10,000 acres in grain belt of North Texas. Surrounding station on new railroad. Tracts to suit purchaser. Snoddy & Thompson, Wichita Falls, Texas.

POULTRY.

FORTY VARIETIES of standard bred chickens, ducks, geese and turkeys; northern raised, hardy, and fine in plumage. Lowest prices on stock, eggs and incubators and brooders. Large illustrated catalog mailed for 4c. L. X. L. Poultry Yards, Fulda, Minnesota.

STANDARD bred Mammoth Bronze turkey toms, \$5; hens, \$4; large bone. Mrs. Willard McElvain, Denver, Worth County, Missouri.

200 S. C. RHODE Island Red cockerels; big bone; red to the skin; no smut. I breed for size and quality. L. T. Murphy, Essex, Iowa.

SINGLE COMB Buff Leghorn cockerels, golden buff, \$1 each. Rouen drakes, Arthur Worthington, R. 7, Manitowoc, Wisconsin.

SINGLE COMB Rhode Island Red cockerels for sale; some very good birds at \$1.75 each. Frank Morley, Bedford, Iowa.

BUFF P. ROCK cockerels, \$1 each, good size and color. Good 50 egg incubator \$3. Mrs. Frank Dumig, Danbury, Iowa.

PURE WHITE Plymouth Rock cockerels, large fine shaped birds \$1 to \$2. Mrs. C. C. Baker, Brooks, Iowa.

PURE BRED Single Comb White Leghorn cockerels, \$1. Wm. Rockwell, Hubbard, Nebraska.

ROSE COMB Rhode Island cockerels; fine birds; \$1 each. Mrs. J. Holmgren, Rolfe, Iowa.

CHOICE Buff Leghorn cockerels reasonable. Mrs. John Poor, Cowgill, Missouri.

CHOICE Barred Rock cockerels. Jas. Farquhar, Sutherland, Iowa.

HELP WANTED.

WANTED immediately, railway mail clerks, custom house clerks. Many spring examinations. Salary \$600 to \$1,500. Steady work. Short hours. Annual vacations. Salary twice monthly. Thousands of appointments during 1910. City and country residents stand equal chance. Common school education sufficient. Political influence not needed. To advertise our schools we are preparing candidates free. Write immediately for schedule showing dates and places of the examinations. Franklin Institute, Dept. O-24, Rochester, New York.

WANTED—Railway mail clerks. Let us prepare you for spring examination; 100 free scholarships. President of school conducted government examinations. Catalog and free trial lesson. Ozment's College, Dept. 42 R, St. Louis, Missouri.

YOUNG MAN to work his way through college. Bookkeeping, shorthand, telegraphy, railway mail, etc. Great opportunity to enter America's most practical school. Capital City Commercial College, St. Paul, Minnesota. Catalog 7 free.

GOVERNMENT farmers wanted. Salary \$75 monthly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42 F, St. Louis, Missouri.

TELEGRAPHY—By expert operators. Railway wire in school. Official school for the big roads. Catalog free. Wallace Expert School and Capital City Commercial College, St. Paul, Minnesota.

DOGS.

FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successful coon, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

THOROUGHbred coon, fox and wolf hounds, trained and untrained. These dogs are guaranteed. Address Morris Murphy, Bentonport, Iowa.

SCOTTISH Terriers, the world's greatest ratters, pedigreed. S. Harr, Riverside, Iowa.

AGENTS WANTED.

WE PAY \$80 a month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bigler Company, X425, Springfield, Illinois.

AGENTS—Handy Home Fastener. Every horse owner buys at sight. 200% profit. Thomas Mfg. Co., 59 Third St., Dayton, Ohio.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

LIVE STOCK.

FOR SALE—\$15 each; 2 heifers, 2 bulls, fifteen-sixteenths Holsteins, 3 weeks old, nicely marked. Write Box 753, Whitewater, Wisconsin.

10 PERCHERON stallions, 2 and 3 year olds; blacks, grays; weigh 1,600, 2,000 lbs. Nicholas Stamm, Letts, Louisiana County, Iowa.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

AUTOMOBILES.

REBUILT and second hand automobiles which have been taken in part payment for new Ramblers. Write for list, specifications, photographs. \$350 upwards. Rambler Garage Company of Milwaukee, Milwaukee, Wisconsin.

SEEDS AND NURSERY STOCK.

SEEDMEN wanting watermelon seed grown next season, write me. I have had years of experience. Address James Smith, Amorita, Oklahoma.

MISCELLANEOUS.

FARMERS and horsemen, we have the latest and most up-to-date stable supplies on the market. Write today. Particulars free. The Equine Specialty Co., Dept. A, Kokomo, Indiana.

FOR SALE—75 horse power Ajax gasoline engine. Very little used; condition good as new. H. W. Anderson, 340 Bee Building, Omaha, Nebraska.

FROZEN FISH—Fresh frozen Lake Superior fish, direct from the fisheries to consumers. Write E. Kenner (Wholesale Fish), Duluth, Minnesota.

WONDER OIL LAMP FREE

This is a Genuine offer to lamp users, made to introduce the Wonder INCANDESCENT 100-CANDLE POWER Kerosene Oil Lamp in every locality. Many times BRIGHTER, CHEAPER and SAFER than Gasoline, Electricity or ordinary lamps for lighting homes, offices, stores, halls and churches. We ask that you show it to your neighbors. If you accept the proposition we will send you, we will give you a lamp FREE. Send your name and name of your nearest express office. UNITED FACTORIES CO. Largest Lamp House in America. 1017 FACTORY BLDG., KANSAS CITY, MO.



ADVERTISING NOTES.

OF INTEREST TO SEED BUYERS.

The new advertisement of the Sioux City Seed & Nursery Co. will be found on page 26. This concern has been in existence for more than twenty-five years and takes pride in the fact that its trade is today twenty-five times greater than it was the first year. It employs no agents and for fifteen years has been dealing directly with farmers and planters of nursery stock. The company is making a special combination offer that ought to attract and please all lovers of trees and flowers. This offer is fully explained in catalog No. 25 which may be had on application to the Sioux City Seed & Nursery Co., Sioux City, Iowa.

TIME SAVERS AND MONEY MAKERS.

In these days of progressive and perfected farming the implement most highly appreciated is that which does the greater amount of work with the smaller proportion of attention. In this line we are glad to commend the Naylor Double Duty Implements as advertised on page 15 of this paper. These implements save half the time in the preparation of the seed bed which saving comes at a period when time is the most important element to be considered. Complete details, descriptions and prices of the Naylor goods may be obtained from the free catalog prepared for that purpose, for which address the Naylor Manufacturing Company, Box 142, La Grange, Ill.

BULL DOG GRINDERS.

That is no joke. It is the name of a grinding machine made and sold by the Crown Point Manufacturing Company and advertised on page 8 of this paper. The Bull Dog grinds fine or coarse as may be demanded, is durable and effective, and is made in sizes from two to fifty horsepower. The present condition of the corn crop makes it advisable that as large a proportion of it as possible be fed out before next summer. Grinding, therefore, becomes a necessity. The low price at which the Bull Dog is sold makes it one of the more desirable machines in market. For additional particulars or the special price made to readers of this paper write to the Crown Point Manufacturing Company, 123 East Road, Crown Point, Indiana.

"SAVE-THE-HORSE."

From time to time there have appeared in our columns, advertisements of the veterinary remedy, "Save-the-Horse." This has proven a wonderful thing to horse raisers. It is so good that those who have used it are loud in its praise. Mr. G. A. Penny, of Mulvane, Kan., early in the season bought a bottle of it and was so well pleased that he wrote, saying: "I used 'Save-the-Horse' on a hock that puffed and bogged badly and one bottle cured him sound. It is one of the greatest remedies used. I have recommended it to a great many in this town for rhinbone and spavin and every bottle has proven satisfactory." The remedy is sold for \$5 per bottle and may be had, charges prepaid, by writing to the Troy Chemical Company, 3 Commercial Ave., Binghamton, N. Y. See advertisement on page 34.

THE DAN PATCH SPREADER.

Dan Patch has taken up so much of the time and attention of Mr. M. W. Savage, the well-known Minnesota man, that when the M. W. Savage Factories Company took up the line of farm implements he naturally selected Dan Patch as the name for the manure spreader which should be a leader as the product of that factory. The Dan Patch spreader is undoubtedly a good one. Mr. Savage says so, and he knows. He never says anything that he doesn't know to be true. He knows it so well that he is sending out the Dan Patch spreader on a four months' free trial with the additional attraction that it is to be sold at factory prices and may be paid for in easy payments and long time. There does not seem to be much room for argument left on a proposition like this. If anyone wants more information, however, it may be secured from the great big, free, four-color spreader book which gives also the special factory price and easy payment plan. Look at the big advertisement on page 17 and cut the coupon, fill it out, and mail it at once to the M. W. Savage Factories Company, Minneapolis, Minn. Notice that there is also room on the coupon to ask for a book called "Barn-Yard Gold." At the price it would be a good investment to get it also.

FARMING IN OREGON.

The glamour of attraction that hangs over distant lands so often dissolves upon closer inspection that the land seeker is not infrequently disenchanted. Just for this reason the Portland Commercial Club, of Portland, Ore., have undertaken to present the true facts with reference to the climatic conditions of that state, the statistical figures concerning agricultural and live stock products, and also the verified statements of authorities on the lumber and mining industries. All these are important, but to our mind the leading features of interest are the agricultural possibilities and prospects and these will well justify the investigation of land seekers whose attention will be attracted by the Oregon land advertisement on page 36 of this paper. The announcement therein given is only suggestive, but it is a sufficient hint to those who are wise enough to appreciate correct farm conditions on investigation. We note that the assessed valuation of the property in the state of Oregon in 1908 was nearly \$600,000,000. While wheat is the leading crop produced in 1906, nearly 14,000,000 bushels, barley, oats, hay and corn are equally natural products of the Oregon soil. Stock raising is a profitable industry, both with reference to dairy farming and beef raising. Fruit culture is an industry the prominence of which needs no reference in these columns. Taken all in all the wide range of agricultural endeavor cannot fail to attract many people. Success there, as elsewhere, seems to depend only upon the individual energy put into the work. Conditions are all favorable. Prices are good, and up to the present time the cost of land has been of a reasonable order. There are irrigation districts and immense areas of land that are under a highly successful state of cultivation without the aid of artificial moisture. But there are so many details of interest in this matter that it is out of the question to even make a brief reference to them here. Those who are interested should write to the Portland Commercial Club, Portland, Ore.,

asking for copies of the various illustrated booklets issued. These are printed in the most artistic and attractive form and are really souvenirs of art as well as mines of information with reference to the possibilities of the great state in whose interest they are published.

THE ALLEN IMPLEMENTS.

The S. L. Allen farm and garden implements have been in common use for so many years that they are looked upon as absolute necessities by all gardeners and most farmers. In particular the Planet Jr. labor-saving tools have won their way into public approval. They have been perfected to the last point and answer all the purposes for which they were built. The Planet drill seeder, double-wheel hoe cultivator and Planet plow has no equal. It combines almost every useful garden tool in one strong, light, easy-running, simply-adjusted implement. It has so many uses and there are so many of the other Allen implements that we must ask our readers for further information to send for the illustrated fifty-six page catalog for 1910. It may be had free by writing to S. L. Allen & Co., Box 1105 D, Philadelphia, Pa. See page 27.

THE KIMBALL ORGANS.

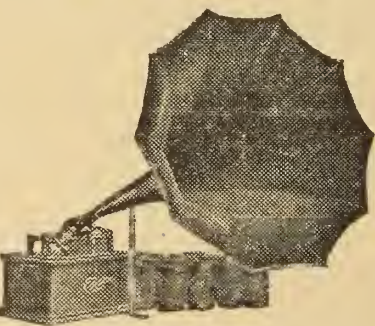
The artistic perfection of the Kimball organs has long been a matter generally accepted by the public. The thousands of families who have installed Kimball organs are loud in their praises. At the present time the manufacturers, the W. W. Kimball Company, of Chicago, as announced on page 29, have started upon a new plan for the sale of their goods. They are offering these organs at factory prices and on easy terms and will give free to each purchaser a complete course of musical instruction. This latter point is a feature of unusual interest to farm families whose opportunities to secure teachers are frequently limited. The Kimball organs are right, the Kimball Company are responsible, and the free trial plan by which any family is able to secure an organ on a thirty days' free trial may all be learned from the catalog, for which write to the W. W. Kimball Company, 368 Kimball Hall, Chicago, Ill.

THE NEW MAYTAG COMPANY.

For several years past the manufacturing interests of the city of Newton, Iowa, have been making such rapid strides as to attract general attention. The two factories most notable were the Parsons Band Cutter and Self Feeder Company and the Parsons Hawkeye Manufacturing Company. These concerns made self feeders, corn shredders, bay presses and various other devices of importance to the agricultural community. The leading spirit in these companies from the start has been Hon. F. L. Maytag. Through his efforts a combination of the two factories has recently been effected under the name of the Maytag Company, with an authorized capital of \$1,000,000. It is expected that the consolidation will bring about a more effective management and more extensive production on the part of both the factories. The same lines of goods will be produced and perhaps additional ones taken on. The move is certainly a good one and means much for the little city of Newton, as well as for the management.

FREE EDISON PHONOGRAPH.

The continued popularity of the phonograph as a means of family entertainment has been a matter of wonder. An interesting announcement with reference to the Edison phonograph will be found in the big advertisement on page 64 of this paper. The proposition offered is that an Edison phonograph will be sent without a cent of money, that you are not asked to keep it, but to accept it as a free loan. After having given it a trial you are at liberty to send it back if you wish. The details are that Mr. Babson, as noted in the advertisement, will send you free a No. 10 Fireside Model Edison Phonograph with one dozen gold



molded and amberol records of your own choosing from the large catalog of records. You are not required to sign any agreements or mortgages or leases or notes. Mr. Babson wants you to be free to judge the phonograph without prejudice. One of the fondest hopes of inventor Edison has been that a phonograph might be found in every home in the country. He has brought it to so high a state of perfection and the manufacturers are using such broad-minded business methods that his hopes bid fair to be realized. As a means of learning all about this offer our readers should procure copies of the big list of music, for which fill out and sign the coupon in the advertisement in this paper or write to Mr. F. K. Babson,

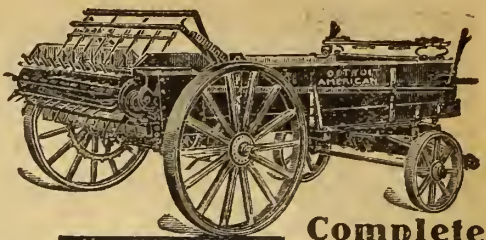
PRICE
Cut to \$83.50

Freight Prepaid

For the Complete Spreader, guaranteed to beat them all. Always the leader, it now jumps many more years ahead of the imitations, with 19 improved features, all found on no other spreader. Yet, note the prices, delivered to you, freight prepaid: In Michigan, \$83.50; in Indiana or Ohio, \$85.00; in Illinois, \$86.50; in Iowa, Minnesota, Wisconsin or Missouri, \$90.00. Write for prices for other states. These prices equal or beat prices asked for other spreaders—yet others are makeshifts when compared with the latest improved—

Detroit-American

Made in all sizes. More steel used than in any other spreader; cylinder all steel; steel rake and end gate; simplest feed—six changes made from seat; the only direct chain drive—no gears; lightest in draft. Prove it. Try one free. Our Wagon-Box Spreader, \$42.50 Freight Paid Delivered in Michigan and only a trifle more



Complete

—with Trucks, Pole and Hitch, Traction Band and everything, all for

\$83.50 Delivered

30 Days' Trial
No Money Down
Cash or Credit

In other states. The limit of big value in a box spreader. Guarantee, trial, credit, all go on this, too. FREE BOOK—The best published on value of manure; how to spread, etc., and how to buy at the right prices on the right terms. Shows and prices the original Tongueless Disc and the finest line of Cultivators, too. Write for book today. American Harrow Co., 113 Hastings St., Detroit, Mich.

Edison Phonograph Distributor, Dept. 3781, Edison Block, Chicago, Ill., or 355 Portage Avenue, Winnipeg, Canada.

A NEW COMBINATION.

The modern improvements of farm machinery are daily approaching more nearly to perfection. Among the very latest of these is the Kramer rotary harrow used as an attachment to any gang or sulky plow. It pulverizes the soil as the furrow is turned by the plow. There is no better time for the harrowing to be done and no more effective way than that furnished by this attachment. It is a time saver because it does away with going over the ground two or three times to effect the same object. The Kramer attachment was awarded the highest honors at the recent Seattle exposition and also at the National Dry Farming Congress at Billings. It is advertised on page 20. As it is a novelty to most people, our readers will be interested in an accurate description of it which may be had by writing to the Kramer Company, Paxton, Ill., asking for book No. 14.

IMPORTANCE OF TIMBER SAVING.

The United States government is annually expending millions of dollars in an effort to bring about a preservation of the forests and the expenditure is justified on account of the growing scarcity of lumber. This fact makes it highly important that every means be taken to preserve our lumber. One of the best processes, particularly for the protection of posts, is treatment with taroleum, a material advertised on page 12 of this paper. Taroleum is made from the residue obtained from petroleum in the manufacture of gas. It is composed of a refined pitch and oils that preserve and can be used for dipping all kinds of wood exposed to the weather as well as wood that it put into the ground. It is also valuable as a paint for outbuildings. Taroleum is said to be one of the best cleansers for stock sheds and poultry houses, as it kills all forms of lice, mites and vermin. There are so many uses to which taroleum may be put that we are unable to give them in detail, but must refer our readers to an interesting little booklet which is sent free of charge to every reader of this paper who writes to the Omaha Gas Company, 1836 South Twentieth St., Omaha, Neb.

JOE CHAPPLE'S "HEART THROBS."

No American of today is better known to famous people or better loved by common people than Joe Chapple, editor of the National Magazine and compiler of that remarkable book, "Heart Throbs," one of the very few volumes deserving of a place alongside the family Bible. Joe Chapple was born on a farm and grew up as an ordinary country boy. But he was endowed with extraordinary ability and drifted into the newspaper business as naturally as a duck takes to water. From running a grain-hell newspaper he graduated into a big eastern publishing house and finally, on the advice of the late martyred President McKinley, established the now famous National Magazine. President McKinley suggested the National as the magazine to appeal to what Abraham Lincoln loved to call the plain people of America. That McKinley's suggestion has been followed out admirably is evidenced by ex-President Theodore Roosevelt who says: "Joe Chapple is doing good work." But Joe Chapple wasn't satisfied with publishing one of the best monthly magazines in the world. He was moved with a great, overpowering idea: to gather in one book the very best and most loved bits of prose and poetry in the English language, the things most loved by the plain people of America. No one man he felt, could he entrusted with so wonderful a task. So he hit on the plan of letting the plain people do their own selecting. He offered \$10,000 in prizes for the best selections in poetry or prose, sad, gay, pathetic or humorous, and over a hundred thousand people entered the contest which was judged by Admiral Dewey and Senator Allison who made the awards. "Heart Throbs," consequently, is a remarkable book, different from any other book ever published, expressing as it does, the faith, hope and sentiment and aim of the American

people. If you are interested in this remarkable magazine, this very remarkable man and this most remarkable book read the advertisement on page 31 of this issue.

RAMBLER AUTOMOBILES.

On page 3 of our issue of December 30th there appeared an attractive announcement of Messrs. Thos. B. Jeffery & Company, manufacturers of the Rambler cars. In this connection it will be of interest to know that the manufacturers have decided that they will, during the next year, build only 2,500 cars. This is strikingly a matter of comment in view of the fact that most manufacturers are devoting all their energies to increasing their output. The Jeffery company, however, plan to give their greater attention to increasing the value of their cars rather than producing greater numbers. A handsome booklet full of pictures, facts and figures on the car question may be had by writing to Messrs. Thos. B. Jeffery & Company, Kenosha, Wis.

HOW EGGS MAY BUY A FARM.

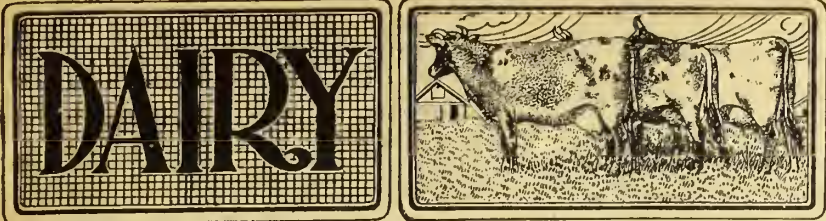
The yearly decreasing amount of available farm lands of value add interest to any statement which presents to the public such lands as those of the famous Koshkonong District of southern Missouri as offered by the Carter County Land & Fruit Company and advertised on page 37 of this paper. The land is right in every way. It is the home of the famous Elberta peach and particularly desirable for fruit and poultry raising, although it is well adapted to the production of vegetables, grains and grasses. The advertisers call our attention to the fact that one of these Missouri farms may be paid for with only six eggs a day. The land in question is sold at the extremely low price of \$10 per acre with easy payments of only twenty-five cents an acre down and ten cents an acre in monthly payments. These figures explain the six-eggs-a-day proposition and prove the statement. Authorities on fruit lands have placed the stamp of their approval upon the district mentioned. For investors as well as those who want homes the opportunity is one of rare interest. Those who wish to learn more of it may obtain free of charge a beautifully pictured catalog containing photographs of the real country and crops grown and other information by sending a postal card to the Carter County Land & Fruit Company, Desk 2, St. Louis, Mo.

CANADIAN DEVELOPMENT.

It seems to be true that at the present time there is no section of country for which the land-hungry farmer can turn with the same chance of securing a satisfactory location as in central Canada. Thousands of farmers from the corn belt of the West have gone to Canada, where it was possible to secure land at from \$3 to \$12 an acre, on which could be produced from twenty to forty bushels per acre of wheat, and from sixty to eighty bushels of oats. The hosts who have taken advantage of the free homesteads of Canada are now in possession of land, with a selling value of from \$15 to \$70 per acre, with the probability of a double advance within the next two years. The element which has brought about this wonderful central Canadian development, to a greater extent than any other, is the Grand Trunk Pacific Railway. This line has opened up new lauds as good as the world affords, and has been the means of starting up villages that have rapidly grown to towns and cities, and now stand for the highest form of North American civilization. These lands are in the true wheat-producing section of North America, and the continued increase in the demand for that cereal must make their value grow to as great an extent as have the lands in older sections. The Canadian government has taken pains to interest farmers and protect their interests. These lands are open prairies, needing no other work to open them up than the old-time breaking-prairie plow. The development that has taken place in the sections already opened up is only a promise of what is to come in millions of acres yet available in this valuable territory.



FEMALES INCLUDED IN THE DISPERSION SALE OF RED POLLED CATTLE BY MR. DAN CLARK, CEDAR FALLS, IOWA, JANUARY 14TH. SEE ADVERTISEMENT ON PAGE 51.



A Few Wisconsin Dairy Cows

By Ray West.

The work of the Wisconsin State Dairymen's Association for the past year has been with the individual cow and her work. It is the individual cows of the numerous herds throughout the state that govern the profits of their owners and until the owners become familiar with the actual profits and losses of the individuals in their herds the chances of stopping the losses and increasing the profits are very slight.

The aim of all dairymen should be to furnish their cows with a ration, at the lowest cost, that will fill the requirements of keeping up their systems and supplying the milk they are capable of producing. This is just as necessary to the average dairyman throughout the state as is the necessity of getting better blood in his herd.

What is meant by better blood? Is it a breed of cows that, by indifferent care and feeding, will produce that same profit which they would under the best of conditions? It is no other than the result of careful care and feeding throughout a number of years. I think all of my readers will agree with me that a majority of the numberless unprofitable cows kept in Wisconsin, as well as in other states throughout this country, could be more or less profitably kept if more attention were given to the needs of the individual cow in the herds.

The question is, how can the owner become familiar with his herd, individually, with regard to the amount of dollars and cents that the individual cow returns him in a year for

a sufficient number of cows in the test so that the expense of paying a man to take charge of the test for the year shall not exceed a dollar a cow per year. This requires at least 350 cows, from that on up, for the more money the association is able to pay the more capable a man they are able to obtain. This man is a graduate of some agricultural college and, besides being able to make the tests accurately with regard to her production and feed, as well as the cost of same.

The tester makes a test of twenty-four hours' milk given by each cow under test once a month, also weighs the feed fed the cow for the day she is tested.

There are twelve tests made during the year. Although a cow may not be giving milk a full twelve months, a record of her feed is kept for the full year and charged against her, thus the actual amount of profit or loss the cow makes is determined.

There are forty associations in the United States, of which eleven are in Wisconsin, having over 4,000 cows under test. The association at Ft. Atkinson, which was the first one organized in Wisconsin, completed its first year's work in October of last year, at which time a number of new members were taken in and the second year's work was started with more work than before and the association was able to employ a more experienced man to do the work. A report of the year's work of a few cows will give some idea of the differences found:

No. of cow	Age	When fresh	In milk	Milk lbs.	Fat %	Fat lbs.	Gross returns	Cost of feed	Net returns	Cost to produce 100 lbs. milk	Cost to produce 1 lb. butter fat	Returns for \$1 expended in feed
1	4 yrs.	Dec. 16 1908	10 mon.	7,512	3.71	279.4	85.74	34.88	50.86	\$.46	\$.46	\$2.45
5	4 yrs.	Sept. 31 1908	10 mon.	6,330	3.00	190.2	58.84	35.52	23.32	.56	.18	1.65
2	2 yrs.	June 10 1909	9 mon.	3,008	3.12	93.9	29.41	34.51	5.10	1.14	.36	.85
3	5 yrs.	Jan. 1 1909	12 mon.	6,847	3.68	252.4	81.82	38.96	42.86	.56	.15	2.10
Average of herd				4,285	3.60	154.4	49.25	36.44	12.81	.85	.24	1.35

the care and feed given her—whether it be more or less than her cost and how much? As one man with whom I recently talked said: "I milk my cows and can tell by looking in the pail how much they give, then by looking at the color of it I can tell just about how much they test." And by this process he claimed he never sold any but his poorest cows. He had his herd tested for a few months, then with the excuse that the test was of no benefit to him, he paid his assessments and withdrew his herd, but in these few months' test it had become evident that he had neglected to dispose of a number of his herd which, according to his own methods of determining the profits of a cow, should have gone to the butcher, or, better still, to have sent her from her mother as a calf to the market to be sold as veal.

There are a great many methods by which the dairymen of the country can and are determining the value of the individual cows in their herds. But the question which came up before the dairy division of the United States Department of Agriculture a few years ago was to find an accurate and economical method by which the average farmer as well as the specialist in dairying can determine what his cows are producing and the cost. The method adopted is as follows: A number of farmers, say, twenty-six, join together in an association, electing their own officers and board of directors who have control of the affairs of their association. It is necessary for the association to have

Cows Nos. 1 and 5 are from one herd and both freshest about the same time. Their milk production for the ten months they were in milk only varied two pounds a milking, but in the amount of fat produced the variation is 89.2 pounds of fat, with a value of \$26.90, making the returns for \$1 expended in feed for No. 1 amount, to \$2.45, while No. 5 only returns \$1.65. Otherwise cow No. 1 returns nearly 100 per cent more profit than No. 5 in the year. Although at first glance these cows seem to be nearly alike in production, by looking over their work carefully it will be seen that No. 1 is inestimably more valuable to her owner, not only as far as she, herself, directly is concerned, but the higher value of her offspring. The whole table is worth a close study.

CALF FEEDING.

The question of substitutes for whole milk for feeding calves is one that is of much importance, especially to dairy farmers. In cases where skim milk is available it becomes a question of substitutes for the butter fat that has been taken out of the whole milk. The availability of various substitutes that have been found fairly satisfactory depends on the purpose for which calves are intended. If calves are intended for veal, then it is desirable to feed to obtain as large a gain in weight with as good appearance as possible in the shortest possible time; if the intention is to raise the calves to maturity, it is desirable to bring them to the point where they can take

1910
DAIRYING
PROSPERITY



The one thing which has contributed most largely to dairying prosperity the world over for the past thirty years has been the DE LAVAL CREAM SEPARATOR, and favorable conditions afford more than usual opportunity for it to continue doing so during the new year of 1910.

The DE LAVAL was the first cream separator and has always led in every step of cream separator development and improvement. DE LAVAL Cream Separators are as much superior to other separators as such other separators are to setting and skimming systems. Creamerymen have long since come to use DE LAVAL separators exclusively, and year by year farm and dairy users are coming to appreciate the equal importance of separator differences in this smaller way.

There was never a better time to make the purchase of a DE LAVAL Cream Separator. The high price of dairy products helps it to save its cost twice as soon as would otherwise be the case. Hence it does this now within a few months over any setting system and within a year over any other separator in use.

DE LAVAL Cream Separators still possess many patent protected features not to be found in any other separator. They have been re-designed and re-built from top to bottom within the past two years and are thus far superior even to earlier DE LAVAL machines. They not only do better work in every way than imitating separators and are much more easily cleaned and handled, but are so much better built that they last twice to ten times as long,—while they cost no more than the poorest of other separators in proportion to actual separating capacity.

No man having milk to separate, whether he now has no separator or an inferior kind of one, can make a wiser or more profitable move than to start the new year 1910 with a DE LAVAL machine, and every day of delay means just so much loss in quantity and quality of product.

It is the duty of DE LAVAL agents to PROVE this to every possible purchaser and they are glad of the opportunity to do it. Catalog and any desired particulars may be had for the asking.

THE DE LAVAL SEPARATOR CO.

165-167 Broadway NEW YORK	42 E. Madison Street CHICAGO	Drumm & Sacramento Sts SAN FRANCISCO
173-177 William Street MONTREAL	14 & 16 Princess Street WINNIPEG	1016 Western Avenue SEATTLE

care of themselves, that is, where they have learned to eat and digest coarse feed in quantity sufficient to maintain satisfactory growth with the least possible expense and labor.

Some years ago a number of the stations studied the question of substitutes for the butter fat taken out of whole milk and reached conclusions, agreeing in the main, in favor of some sort of a grain ration to supplement the skim milk. With the increasing prices of grain the possibility of finding a cheaper substitute seems extremely desirable.

The Virginia station has carried on feeding trials designed to compare the value of different grains as a supplement to skim milk.

The grains used in this trial were: Shelled corn, shelled corn and bran, four parts of the former to one of the latter by weight; corn meal and bran in the same proportion, and cracked barley and bran also in the same proportion. Shelled corn is probably the most available grain for calf feeding, and it seemed desirable to secure some data as to its value in supplementing skim milk, as compared with a combination of shelled corn and wheat bran. Wheat bran has become so expensive in the last few years that it is advisable to substitute a cheaper foodstuff as far as possible. It was also thought desirable to secure a comparison of the whole grain with the same grain in the form of meal. Barley has not been raised or fed very extensively in the South, but on land suitable to its growth it gives a good yield and is a very valuable foodstuff.

Six groups of four calves each were used at the Virginia station, groups one to four being dairy bred and the other two of beef breeds, and the groups were made as nearly uniform as possible.

The method of feeding was as follows:

The calves were confined in stanchions while the skim milk and grain were fed; after this they were allowed the run of the barn with access to the hay rack at all times. The skim milk was fed first, in round-bottomed buckets, and immediately afterwards the grain; the grain and skim milk were never mixed together. It is important that the milk and grain be fed separately, as it is much better masticated, and the digestive juices have a much better chance to do their work. It is probable that some of the failures in feeding calves on skim milk are due to mixing grains that do not go into solution with the milk. The calves were fed for the first week on whole milk, then the skim milk was gradually substituted for it. They would usually begin to eat the grain and hay at ten to twelve days old. It was found that the calves learned to eat the ration containing bran somewhat quicker than they did that of shelled corn alone. Care was taken that the skim milk be fed fresh. A small hand separator was used at the barn, and the milk was taken directly from the cow to the separator, and fed in a very short time after separating. It was found that when handled in this way, only in the very coldest weather was it necessary to use any artificial heat.

The calves were fastened at feeding time to save the time of the feeder and keep them from each other until their noses were dry, and also because it was found that they learned to eat more readily in this way.

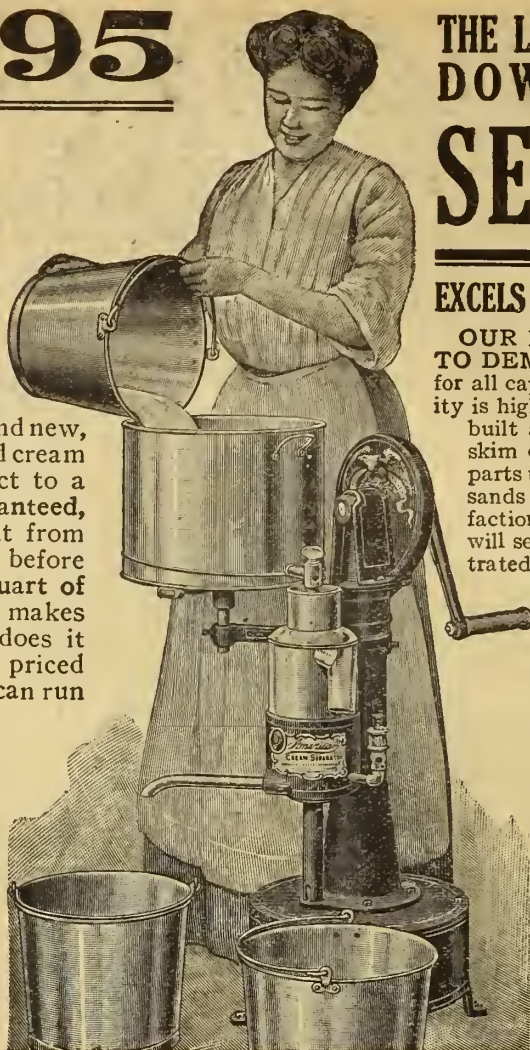
The following rules were observed in feeding the calves and were found quite satisfactory: Ten pounds of milk for the first 100 pounds of live weight, five pounds of milk for the second 100

\$15.95

AND UPWARD

THIS OFFER IS NO CATCH.

It is a solid, fair and square proposition to furnish a brand new, well made and well finished cream separator complete, subject to a long trial and fully guaranteed, for \$15.95. It is different from anything that has ever before been offered. Skims 1 quart of milk a minute, hot or cold, makes thick or thin cream and does it just as well as any higher priced machine. Any boy or girl can run it sitting down. The crank is only 5 inches long. Just think of that! The bowl is a sanitary marvel; easily cleaned, and embodies all our latest improvements. Gears run in anti-friction bearings and thoroughly protected. Before you decide on a cream separator of any capacity whatever, obtain our \$15.95 proposition.



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THE LOW DOWN AMERICAN SEPARATOR

EXCELS ANY SEPARATOR IN THE WORLD

OUR LIBERAL TRIAL ENABLES YOU TO DEMONSTRATE THIS. While our prices for all capacities are astonishingly low, the quality is high. Our machines are up to date, well built and handsomely finished. Run easier, skim closer, have a simpler bowl with fewer parts than any other cream separator. Thousands of machines in use giving splendid satisfaction. Write for our 1910 catalog. We will send it free, postpaid. It is richly illustrated, shows the machine in detail and tells all about the American Separator.

Our surprisingly liberal long time trial proposition, generous terms of purchase and the low prices quoted will astonish you. We are the oldest exclusive manufacturers of hand separators in America and the first to sell direct to the user. We cannot afford to sell an article that is not absolutely first class. You save agent's, dealer's and even catalog house's profits by dealing with us and at the same time obtain the finest and highest quality machine on the market. Our own (manufacturer's) guarantee protects you on every American Separator. We ship immediately. Western orders filled from Western points. Write us and get our great offer and handsome free catalog. ADDRESS,

pounds of live weight and two and five-tenths pounds of milk for the third 100 pounds of live weight. Until the calf was three months old one pound of grain to ten pounds of milk was fed. From three to six months old one pound of grain to five pounds of milk was fed.

The grain consumed per day varied from two and four-hundredths pounds with the group receiving shelled corn and bran to two and twenty-five hundredths with the group receiving shelled corn alone. The group which received shelled corn and bran consumed the smallest amount of skim milk, while the group which was fed barley and bran consumed the highest amount. There was slightly more variation in the amount of hay than of grain. The amount of grain per pound of gain only varied nine-hundredths of a pound. It is evident from this that there is no practical difference in the amount of grain required per pound of gain.

Bran was used to great advantage in teaching the calves to eat grain, but no advantage was secured from adding bran to a ration of shelled corn to supplement the skim milk, either in rate of gain or the appearance of

the calf. The best results were obtained from shelled corn. The calves did not consume as much corn meal per day as shelled corn, nor did they make as large a rate of gain. It did not require as much shelled corn as corn meal per pound of gain. Barley was found to be an excellent grain to supplement skim milk, but owing to the high market price of the barley as compared with corn it did not show as good returns financially. However, it must be borne in mind that barley can be produced pound for pound as cheaply as the corn.

The importance of hay for young calves cannot be emphasized too strongly; they should have access to good, clean hay at all times.

The cost per day varied from five and four-tenths to six cents; or from about \$1.60 to \$1.80 per month. The cost per pound of gain was lowest with the beef-bred calves receiving shelled corn and bran, three and thirty-nine hundredths cents; and the highest with the dairy-bred calves receiving barley, four cents.

The increase in weight per head per day with the dairy-bred calves varied from one and forty-two hundredths pounds with those receiving corn meal to one and sixty hundredths pounds with those receiving shelled corn. The increase per head per day was twenty-tenths greater with the beef-bred calves than with the dairy-bred calves receiving the same ration.

The group of calves fed whole milk made the largest gain, but at the highest cost per day and per pound of gain. They presented a better appearance before weaning, but at eight months of age there was little difference either in weight or appearance between those developed on whole milk and those on skim milk.

Ensilage for Dairy Cows.

To the Editor of The Homestead:

The profitability of feeding ensilage to dairy cows is no longer in doubt. One man says: "In my years of experience with dairy cows, I find nothing to equal good sweet ensilage as a milk and butter producer."

This experience is no doubt the experience of the majority of farmers who have used ensilage for their milk cows during the fall and winter months. There is no doubt but that the actual cost of the ensilage is much less than that of any other ration that can be used for the dairy cow.

In most localities the cost of ensilage will run in the neighborhood of three dollars per ton. This is very small compared to the cost of many food stuffs. Ensilage is simply preserved green feed which is always relished by the cows.

There are many dairymen who are making good money by using the ensilage. If they were compelled to use the regular high-priced food stuffs, they would be compelled to go out of business. I just heard the other day of a man who went into the dairy business on a good large scale, purchasing good cows and building good barns. At the close of the second year he was forced to quit the business because of the expensiveness of the feed. His neighbor who used the ensilage kept right on in the business and made a success. The building of a silo had saved him in the time of high-priced feed.

W. D. Neale.

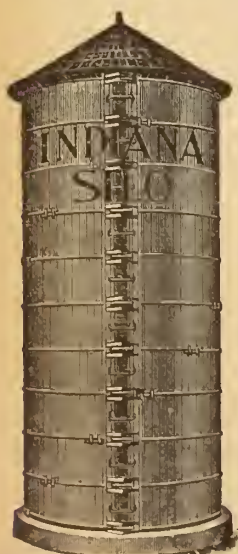
Dairying Possibilities in Iowa.

To the Editor of The Homestead:

Probably no state in the union has greater possibilities in dairy farming lines than has the state of Iowa. For many years this state has ranked at the top as a butter-producing state. When we realize the fact that the vast amount of butter produced in Iowa has been yielded by a very common class of cows it is plainly seen that great increases, both in production and profit, may be realized simply through the improvement in the character of cows milked. Iowa does not need any more cows than she has at the present time. Already the farmers of this state are milking over 1,400,000 cows and the average annual production of butter fat is barely 140 pounds.

It is a fact, of course, that a great many of the cows milked produce very much more butter fat than this and in view of this fact there are certainly a great many cows producing much less, which means that they are being milked and fed twice a day all through the year and returning no profit whatever for the efforts of their owners. This is accounted for in two ways. First, the Iowa farmer has for many years been busy feeding and raising horses, hogs and beef cattle, paying very little attention to the cows that have been paying the bills at the grocery store. Second, the general

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Six thousand in use is absolute proof that Indiana Silos are the best in the world. "Ask the man who uses one." The patented mechanical features make them better. Our self-draining mortised joint doubles the life of the silo.

Our combination steel step and continuous door frame is most substantial and convenient.

The best materials make Indiana Silos by far the best. We own saw mills and timber lands, and thereby get stock selected, seasoned and prepared exclusively for our silos.

We now have ready an enormous stock of the finest silo material, and we are now booking orders for 1910 delivery.

Indiana one-piece stave silos have never been equalled.

An Indiana Silo saves half your feed, it pays for itself in one season. High priced feed makes it imperative that you investigate and decide upon your silo now.

Write for the reasons why "Early Buyers Are Lucky Buyers."

We are in a position to give exceptional service, minimum freight, prompt delivery, etc., from our factories at Anderson, Ind., Des Moines, Iowa, and Kansas City, Mo.

Write for THE SILO ADVOCATE FREE! Today AND OUR SILO BOOK FREE!

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character of the Iowa cow is far lower than it should be. As a result of the first instance it is plain to be seen that many good cows in this state have the ability and capacity to produce much more largely than they do, but lack the opportunity, which might be brought about by better feed, care and attention on the part of the owners. In the second instance, of course, there is only one way to remedy the low production and that is to eliminate the poor cows that are being milked, filling their places with cows of superior merit.

With a climate that is good, a soil that can be very little improved upon, a class of farmers that are thrifty, willing to learn and anxious to attain results and the ease with which clover, alfalfa, corn for grain and for silage, root crops, etc., can be raised, with an agricultural college which stands among the foremost of the world, with progressive men who take great personal interest in dairy farming, with a state dairyman's association, made up of the most progressive dairy farmers and creamery men of the state and a legislature that is willing to stand behind them, it is safe to say that not only are the possibilities for dairying in Iowa extremely great but also that these possibilities are certain of development in the very near future.

Hugh G. Van Pelt.

Recent Holstein Records.

During the last monthly record period 143 Holstein-Friesian cows have made acceptable records. Twenty-four full-aged cows averaged 453.7 pounds of milk, 3.47 per cent of fat and 15.731 pounds of fat; nine junior four-year-olds averaged 393.3 pounds of milk, 3.53 per cent of fat and 13.864 pounds of fat; fifteen senior three-year-olds averaged 382.7 pounds of milk; 3.46 per cent of fat and 13.232 pounds of fat; fourteen junior three-year-olds averaged 343.2 pounds of milk, 3.31 per cent of fat and 11.376 pounds of fat; fourteen senior two-year-olds averaged 323.9 pounds of

milk, 3.35 per cent of fat and 10.855 pounds of fat, and twenty-eight junior two-year-olds averaged 291.5 pounds of milk, 3.31 per cent of fat and 9.657 pounds of fat. This entire herd, of which one-half were heifers with first or second calves, produced in seven consecutive days 46,780.3 pounds of milk containing 1,593.76 pounds of butter fat and showed an average of 3.41 per cent of fat. Each animal produced on an average the equivalent of twenty-six quarts of milk per day and fifteen pounds of the very best commercial butter per week. The test for this herd were mostly made after the pastures had been severely frosted and just as the animals were going into winter quarters. As is generally known, the season of the year in which these records were made is not a favorable time in which to secure the very best results.


Lillian Walker 3d 73170, bred by H. A. Moyer, Syracuse, N. Y., and owned by T. W. Field, of Montello, Mass., in this same period made a most enviable record. In seven days she produced 563.6 pounds of milk and 22.992 pounds of fat; in thirty days she produced 2,333.6 pounds of milk and 90.644 pounds of fat. Snowball Pink 59077, bred by E. E. Randall, of Hustisford, Wis., and owned by Lee Legler, of Juda, Wis., also made an enviable record, producing 486.1 pounds of milk and 18.671 pounds of fat in seven days. A senior four-year-old, Pietertje Mechthilde Beauty 7491, bred by Mr. Albert Babler, of Albany, Wis., and owned by Mr. Legler, produced 511.4 pounds of milk and 18.202 pounds of fat in a week. A junior four-year-old, Barbara Tirania Mechthilde 82263, owned by L. G. Legler, produced 481.9 pounds of milk and 16.658 pounds of fat.

A senior three-year-old, Mutual Korndyke Segis 89611, owned by W. F. Scott, of Blossvale, N. Y., produced 445.6 pounds of milk and 16.843 pounds of fat. A junior three-year-old, Maggie Diantha De Kol 85827, owned by Henry Stevens & Son, Lacona, N. Y., produced 375.4 pounds of milk and 15.731 pounds of fat. A senior two-year-old, Lucy Pietertje Concordia Vale 101199, owned by G. T. Tuckerman, Cassville, N. Y., produced 345.8 pounds of milk and 13.875 pounds of fat. A junior two-year-old, Copia Hengerveld 2d's Buttercup 93139, owned by Henry Stevens & Son, produced 383.5 pounds of milk and 14.389 pounds of fat.

Another Guernsey Record Made.

Missy of the Glen has just completed her record for a year in which time she produced 14,591.7 pounds of milk and 954.86 pounds of fat. For eleven and one-half months her record was 913 pounds and it was expected that the heifer would produce enough more in the remaining two weeks of her period to surpass the record of Jacoba Irene. As will be seen from the foregoing figures her butter fat record for the year fell just below this mark. This wonderful Guernsey cow is a descendant of Polly de L'Epinal, a cow imported by William Barclay to the H. A. C. Taylor Farm at Newport, Rhode Island, sixteen years ago.

Get my Special Proposition which is Real Co-operation Between the Manufacturer and the Farmer



Wm. Galloway President
Wm. Galloway Company, of America

"OK"
By the Farmers and Dairymen of America

Like a \$5,000 automobile, and all other modern machines.

—The only Separator that automatically oils itself.

—The only Separator into which you can pour oil at the top once a month from your oil jug or can, and have it oil itself without danger of running dry, or ruining itself like others. This feature alone worth \$50.00 more than separators built the old way. Cost nothing extra on Galloway.

—No oil cups to remember to fill or turn up twice a day.

—Dust-proof—Danger-proof—All gears enclosed—Simple but standard built and absolutely dependable.

—Has the only revolving supply tank. Worth \$15.00 more on any machine. Costs nothing extra on a Galloway.

—Easiest to clean and the few parts come out easy and can't get back out of place.

—Easiest to run—high crank—low tank. With no high lifting and no "back-breaking" cranking.

—Gets the finest quality cream, and all of it—no lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down.

—Skims closest in any climate or season, no matter whether your milk is warm or cold.

—Is as handsome a machine, compact and substantial as you ever saw or could find. Beautiful finish.

Let us send you all the facts, told in our New Cream Separator Book. Let me write you personally and send you this Big, New Separator Book of mine—postpaid—Free, so that you and your wife and the boys and girls can talk it over and then try one of my separators under my easy plan for you to do it.

You'll call it the best if you test it alongside any of the highest-priced \$85.00 to \$110.00 separators sold by anybody today—makers—catalog houses—supply houses—dealers—jobbers or anybody else.

Wm. Galloway, Pres., The Wm. Galloway Co., of America
Authorized Capital, \$3,500,000.00. 103 Galloway Station, Waterloo, Iowa

GALLOWAY SAVES YOU \$25 to \$50

If You Answer This Ad

Cut or tear out this coupon—or write a postal or letter—and send your name to me before you buy any kind of a cream separator. Keep \$25 to \$50 cash in your own pocket, in savings, and get a better separator than you would pay others \$85 to \$110 for—you be the judge and jury. I promptly quote you prices direct from my factory to you—also send you my big, free separator book and special proposition.

William Galloway Company, of America
103 Galloway Station, Waterloo, Iowa

Name.....
Town.....State.....

NEVER BEFORE in the History of High-Grade Separators could you buy the latest standard, highest-grade machine like the Galloway at such a low direct price as I can make to you now—because I am making so many of them. Only \$33.50 and upward, freight prepaid to you on 90 Days' Approval Test and 20 years' guarantee.

—Any capacity, from 200 to 950 pounds per hour, according to your needs, and I'll save you from \$25.00 to \$50.00 on the price.

—The only Separator whose gearing runs in a "Bath of Oil"




Save \$25 to \$50 on Capacities From 200 to 950 Pounds Per Hour

Only \$33.50 and up
Freight Prepaid

30 Days' Free Trial

90 DAYS' APPROVAL TEST



NEXT TIME YOU GO TO TOWN

be sure to ask your storekeeper to show you a pair of Extra Heavy

PRESIDENT SUSPENDERS

Just give them a try-out as a work suspender. You'll find them so much more comfortable than the rigid-back kind you have been wearing and last so much longer, that you will never want to wear any other kind.

The sliding cord in the back takes all strain from your shoulders, allows freedom of motion, and prevents chafing.

Maker's guarantee on every pair—SATISFACTION, NEW PAIR OR YOUR MONEY BACK. If your storekeeper doesn't have the Extra Heavy Weight, made especially for farmers, we will send you a pair postpaid, upon receipt of price, 50c.

The C. A. Edgarton Mfg. Co.
SHIRLEY PRESIDENT SUSPENDERS

804 Main Street, SHIRLEY, MASS.

The Only Panel Silo

We use tongued and grooved panels, dovetailed at the ends and laid sideways instead of up and down. It makes a Silo tight as a drum which will never shrink, warp or twist out of shape. Every panel is No. 1 Lumber—all bad spots cut out. All uprights in ONE PIECE. You'll never find a stave silo anywhere near so good, durable or long lived as the

Minneapolis SILO
Panel Shrinkproof

We can't begin to tell you all the money saving details here—but our book on Silos, Silage and Economical Feeding tells. Don't think of deciding on any silo until you have read this book and have done some thinking about what our exclusive points of merit mean to you.

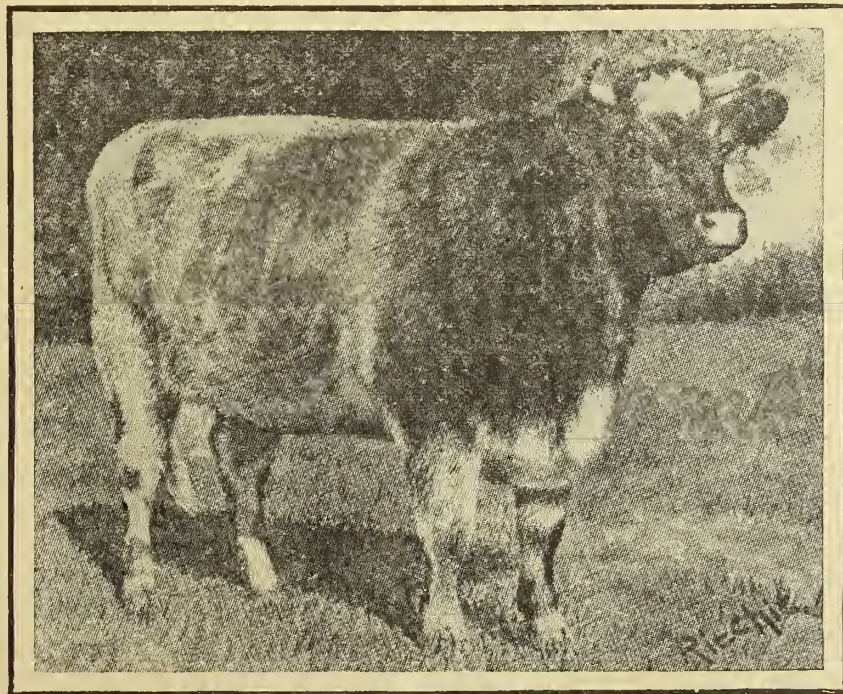
Puffer-Hubbard Mfg. Co., Sta. F Minneapolis, Minn.

Note—We are distributors in the Northwest for the celebrated Climax Ensilage Cutter.

SILOS

EARLY BUYERS SAVE MONEY
EARN IT'S COST BEFORE PAID

HOW? KALAMAZOO & SIOLO



A DAUGHTER OF CHOICE GOODS.

The accompanying illustration is the artist's portrayal of the form of the Brawith Bud cow, Lady Myrtle, one of the Scotch families scheduled to be sold at the Holt sale at Falls City, Neb., January 12th, as advertised on page 54. Lady Myrtle is a beautiful roan and, as almost might be guessed by her appearance, is one of the better daughters of that grand old world's champion, Choice Goods. Back of that she has still further pride of ancestry, her dam having been Third Lady Myra by Galahad. She is a splendid breeding cow, as will be proven when her best son, Double Goods, is driven into the sale ring. Mr. Cruickshank exploited few more popular families than the Brawith Buds, and few animals of that tribe excel in individual merit the cow in question. Facts with reference to the entire offering may be had by sending at once for a copy of the catalog, for which address Mr. W. R. Holt, Falls City, Neb.

Guernseys are known. To this family belong such noted animals as Minx of the Glen, Glenanaare of the Glen, Phillipina of the Glen, Marion of the Glen, Brunhilda of the Glen and Scylla of the Glen. Each of these heifers have been admitted to the advanced register with excellent records and in nearly every instance have won their admission at two years of age.

Iowa heads the list of states when it comes to growing corn, but Iowa has no exclusive right to produce this leading staple. This is made quite clear by B. F. Tillinghast, now in the South, in an article in the Davenport (Ia.) Democrat. Mr. Tillinghast writes: "When corn was cheap there was no incentive to enlarge the field, but since a bushel of corn has been worth more than the silver in a white dollar the maize territory has been growing by leaps. There are 12,500 southern boys at work this year cultivating corn under instructions from the department of agriculture. One of them has received a diploma for raising 152½ bushels of corn on one acre; another has produced 147 bushels; a third, 135 bushels; a fourth, 122 bushels. Iowans who have done better will please report to the Democrat, with affidavit, not for publication, but as a guarantee of good faith."

Don't try to keep too many cows if your farm is small. Keep a few good ones and care for them well. Sometimes good cows and good feed may produce poor results if the management is not right.

TEMPERANCE POST CARDS.

Something new. Twenty Original Artistic designs. Every one a Gem of Beauty. They contain inspiring Temperance quotations and sentiments—charmingly illustrated. They will offend no one—but will make people think. Of special value to the young. May save many a good boy from going astray.

These unique Cards possess character, beauty and intrinsic value. They should be circulated far and wide, for their mission is to make this old world better. They receive unbounded praise from critics everywhere. I give a valuable Premium Coupon, and my Seed Catalog full of bargains Free with every order.

To introduce I will send 20 Temperance Post Cards (all different) for only 15 cts., 40 for 35c., 100 for 60c., postpaid. Please order at once and tell your temperance friends. Club agents wanted everywhere. A. T. Cook, Seedsman, Hyde Park, N. Y.

BIG MONEY IN OATS

STIFF
STRAW
WHITE
BERRY
BIG
YIELDER

Look at
This Cut;
from a
Photograph
Taken of Two
Stalks from
Galloway
Brothers' Field;
Over 200
Kernels to the
Stalk.

GENUINE
REGENERATED
SWEDISH
SELECT

Not Every-day
Swedish Select—
Remember, there's
a Difference.

THE GREATEST
OAT ON EARTH

If You Raise the Right Kind. Here's Your Chance to Get Them. Imported Canadian Seed Oats for Sale.

THEY have proven their worth in this country from different reports we have received from farmers who bought last year—some of them doubling, and in many cases tripling their crops from this seed, as compared with their old run of inbred seed.

Send for free sample which will speak for itself, or send ten cents for good-sized packet of one or both kinds of these oats.

Try some of these wonderful oats. We make a specialty of growing seed oats on our big Canadian farm. New, clean land; no weeds; located at Lajord, Sask., Canada. We have best-known varieties. Regenerated Swedish Select went 116 bushels to acre. Most wonderful oat we have ever seen. This may look like a big yield to farmers of this country, but it is true just the same. They stood 6½ feet tall; have stiff straw, large, plump, white grain, very thin husk, and an early variety. For this seed we originally paid Garton Bros., of England, \$2.00 a bushel for 550 bushels, put them in on specially prepared ground, and will vouch for their quality.

We also have a quantity of Early New Market Oats—Canada's very best-known variety and an enormous yielder.

Here's what farmers write us who bought last year:

W. McConnell, Baldwin, Wis.—"We threshed out 85 bushels per acre; stood up better than any former years! Simply because the farmers have been sowing John Stuppy, Lowell, Ind.—"The came up to my chin and nose before they started to head."

G. F. Gross, Erhart, Ohio—"Sixty bushels per acre, weighing 40 pounds per bushel. Very good oat and do well in this climate."

John F. Otto, Dows, Iowa—"Stood up in fine shape; turnout was good. 80 bushels to acre by weight. They weighed 41 pounds to the measured bushel."

B.B. Maguire, Rush City, Minn.—"I planted eight acres of Early New Market, and have 600 bushels in my granary machine measure. They weighed about 34 or 35 pounds per bushel. Stood up better than two other kinds I had. No question but what you could sell a lot of it here for seed."

W. C. Bryan, Jordan, Minn.—"Threshed 64 bushels per acre. Only wish I had gotten more of them."

Adam Czerwonska, Chetek, Wis.—"Early New Market turned out good. Went 100 bushels to acre. Weighed 34 lbs. per bushel."

Wetzel Bros., Floyd, Iowa—"Your Early New Market oats did just wonderfully; grew 4½ ft. tall; stood up fine till they were cut; went 85 to 70 bu. per acre. Had other oats that went about 25 bu. per acre by measure. Could sell all we raised a dozen times over to our neighbors."

This is what people say who have tried these oats in this country. We believe it will pay you to try some of this new seed. There is more money year in and year out in oats than any other grain, if you raise the right kind. They are easy to raise and generally a sure crop.

Why are oats higher today than they were in former years? Simply because the farmers have been sowing the same old oats over and over again—oats that are inbred and run out, and yet they wonder why they do not get a better crop.

Try some of our new seed. There is big money in raising even 50 and 60 bu. of oats to the acre. At the present price of land you cannot afford to sow inferior, inbred seed any more than you can afford to breed your herd to an inbred bull. It is as easy to put in and harvest a big crop as a small one.

Remember, Northern-grown seed is the kind of seed for this country. All the oats we have to offer are guaranteed to be clean, free from soil seed; and, according to Canadian Government Grain Inspector, they grade No. 1 White—almost an unknown quantity in the United States.

Here is what Professor M. L. Bowman, former professor of Farm Crops, Iowa Agricultural College, says: "I visited Galloway Brothers' big farm in Canada, and was much impressed with the way they farm. I saw these seed oats they are offering. They are fine, pure, clean, big oats, and I believe it will pay any farmer to try ten or twenty bushels of this seed.—N. L. BOWMAN."

If you are interested in any of this grain, write us at once for free sample, or send us ten cents for a packet of one or both kinds. We will also mail you free our little booklet entitled, "Big Money in Oats and How to Grow Them," with authority on how to increase the yield. The oat yield of this country could be doubled if the farmers would follow instructions in this book, gotten out by Prof. M. L. Bowman and Galloway Brothers, Oats Specialists.

Don't wait until it is too late. Many people were disappointed last year in not getting seed from us, because they waited until our supply was run out.

All Minnesota, Wisconsin, North and South Dakota, Montana and northwestern orders will be filled direct from Minneapolis, Minn.

Address all communications to
GALLOWAY BROTHERS, 102 Jefferson Street, WATERLOO, IOWA



HERO Selects the Best Kernels and Grades the Size you Want

The Hero Corn Grader will select the kernels of corn which GROW—the kind with full germ life. It can't make mistakes, and sorts all shapes and sizes in one operation.

Bumper corn crops are not accidental. They are the result of selecting the right kind of seed and all exactly the same size so that your planter will drop three kernels to every hill—not two and not four in some, but THREE in every one.

The Hero will earn its cost from one acre in the increased yield in one year. SENT ON 30 DAYS FREE TRIAL. Send for booklet on corn seeding and full particulars of machine.

C. A. PAULSON

2839 Colfax Ave. So. MINNEAPOLIS, MINN.

12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruiters, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS OF HARDY "BLIZZARD BELT" fruits by next mail. Address

THE GARDNER NURSERY COMPANY, Box 202, Otago, Iowa.

Guaranteed Seed Corn

Reid's Yellow Dent, Wimples' Yellow Dent, Early Murdock, Dakota Gold Mine, Clay County White, Minnesota No. 13, Pride of the North, Farmers' Surprise (white) extra early. All South Dakota grown. Booklet B tells all about it, FREE. Write for it, do it now.

TOTTEN'S VERMILION SEED HOUSE, VERMILION, SOUTH DAKOTA.

SEED CORN SOLD ON APPROVAL

Test it any way you please for 10 days. And if not perfectly satisfactory, return at our expense and money will be refunded. We have 30,000 bushels of select seed ears for sale this season. Largest exclusively seed corn house in the world. Had over 60 men getting out our seed in October. Highest yielding varieties only—Favorite White, Improved Boone Co. White, White Dent, Reid's Yellow Dent, Improved Leaming (yellow). All corn carefully selected as it comes from the field and dried by air shafts, steam pipes and electric fans. Grow our own corn. Ship in car or shelled. Write today for our beautiful corn book and sample. Tells you how to grow a bumper crop of corn. Free for the asking.

The G. D. Sutton Co., Dept. D MASON CITY, ILL.



HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

PROGRESS IN FORESTRY.

There has been a wonderful awakening upon the subject of forestry in the United States. It is not shown so much in the work now accomplished, though that is considerable, as it is in the universal sentiment favorable to doing something.

There has to be a period of study into the facts of a situation before people can be aroused to vigorous action. The statistics "scare figures" published for the last forty years created no alarm. They were too plainly unreliable. People realized that while figures don't lie, liars will figure.

But what startled the public, was the advancing price, because our shingles had to come from Puget Sound, and our pine from the South. These facts have brought thoughtful men to the point where they are willing to favor any and every movement looking to the preservation and extension of our forests. The government has taken a fine lead in the business.

And the plan of furnishing advice and working ideas to private owners has much to commend it. Many large owners of timber lands capable of restoration are being swept into the new movement. What we need at this time is state co-operation. Every state should establish a state forest, large or small according to the resources available. It would be an object lesson of great value. It has been suggested that we go even farther than this and let every county establish a public forest. The tide is setting so strongly in that direction that twenty-five years may see some of the plans which seem dream-like now, carried into execution.

PREPARING FOR HOTBEDS.

This is not a bit too early to begin preparations for the season's hotbeds. Get the fresh horse manure wherever you can, but instead of piling it spread it out thinly over the entire yard, where the beds are to be a little later. Of course, all the frames, and sash have been removed previously. If you get enough manure to make it two inches thick at first, that is enough.

Then the next hauling begin again and spread it all over, except the roads where you drive through, and make these sixteen feet apart. Pile it on in this way until it is three feet thick or more. Throw the snow from the roads, upon the manure, and this will facilitate the heating which is desired. When the yard is all filled, fill up the roads by pitching in the hot manure from the sides. This will draw out the frost, if any is in the ground.

By this time, it will be February, and time to begin making beds. Begin at one side, and pitch in as much manure as is required for the first row. By this time the whole spread will be in fine condition, and there will be no waiting for the beds to heat up.

This is the system adopted by gardeners of long experience, who are working upon a large scale, but it may be adopted to good advantage, by any one who makes hotbeds. Its advantages are that the whole yard will be warmed, and the manure will be in a wet and well mixed condition.

Pure Insecticides and Fungicides.

To the Editor of The Homestead:

At the last session of congress a bill was introduced in both the senate and house providing for the government control of the purity of insecticides and fungicides in much the same manner as the purity of foods and drugs is now controlled. This bill was introduced at the instance of the association of economic entomologists. With the increased use of manufactured insecticides and fungicides it has become very necessary that their quality should be standardized so that definite recommendations for their use may be made with accuracy and so that adulterated and inferior arti-

The confidence felt by farmers and gardeners in Ferry's Seeds to-day would have been impossible to feel in any seeds two score of years ago. We have made a science of seed growing.

FERRY'S SEEDS

always do exactly what you expect of them. For sale everywhere. FERRY'S 1910 SEED ANNUAL Free on request.

D. M. FERRY & CO., Detroit, Mich.

POTATOES PAY

Make them pay by using the machines that really do the work—

CUT, PLANT, SPRAY, DIG and SORT

There's nothing in potato machinery up to

ASPINWALL EQUIPMENT

Write for copy of our free book telling how to make money, growing potatoes.

ASPINWALL MFG. CO.
459 Sabin St., Jackson, Mich., U.S.A.
Pioneer Makers of Potato Machinery



Minn. Grown CLOVER SEED.

Produced on the Virgin soil of our Cold Northwest, possesses the vitality, vigor & hardiness of our rigorous climate. Is free from noxious foul seeds, produces 40 per cent more than seed grown in a mild climate. Our "FARMER BRAND" Government tested Seed stands for the highest quality obtainable & complies with all the Seed Laws. We have the most complete line of CLOVER, ALFALFA, TIMOTHY and other Grass Seeds; also of pure bred Seed Grain. Seed Corn, Seed Potatoes and Garden Seeds.

Write for Prices, Samples and our large Illustrated Catalog. German or English.

FARMER SEED CO.,
Wm. Kueker, Manager,
336 8th Avenue,
Faribault, Minn.

GREGORY'S SEEDS

Guaranteed fresh and pure, and sold at a reasonable price. Try them this year.

Gregory's Improved Crosby Egyptian Beet the darkest and earliest beet ever introduced. A great favorite among market gardeners.

Gregory's Improved Danvers Carrot is a rich, dark orange in color, and a great favorite. The largest and best English houses are purchasing quantities of this seed from us.

Write for a copy of our beautiful new catalogue, the most valuable book for farmers and market gardeners ever given away.

GREGORY'S HONEST SEEDS
J. J. H. Gregory & Son, Marblehead, Mass.

GOOD SEEDS

BIG SEED BOOK FREE

BEST NEW CROP GROWN SEEDS IN THE WORLD AT FARMER PRICES. In addition we give a whole lot of extra seeds with every order. OUR BIG ILLUSTRATED CATALOGUE OF FARM AND GARDEN SEEDS IS NOW READY. It is FREE to you. A postal card will bring it to your door. Write for it today; also send the address of your neighbors who buy seeds. Address,

RATEKIN'S SEED HOUSE, SHENANDOAH, IOWA

1/4 CENTURY OFFER

FLOWERING BECHTEL CRAB FREE

A GEM among flowering trees: A theme for poets. Extra hardy, flowers double-shell pink, delicious wild crab odor. We give it and our **FREE** beautifully illustrated Nursery Catalogue in honor of a quarter of a century in Sioux City! In its honor we make a grand offer to all customers. Four beautiful plants: Bechtel flowering, Crab Grand Paeony, two rare vines, six superb Canas. Too good to miss. Catalogue tells all about it, and how to plant, prune and care for trees. Most complete line **EXTRA HARDY NORTHERN GROWN** trees, shrubs, vines, bulbs, roses, perennials, paeonies, etc., in the northwest. Quality the best. Prices right. Write today for catalog. 25.

SIoux CITY SEED & NURSERY CO. Sioux City, Ia.

CLOVER

Now is The Time to Buy.

Seed crop almost a failure. Prices bound to be higher later.

Buy before advance. Write today for special low prices and free samples of our Pure New Crop Re-cleaned, Tested Clover Seed. Have timothy and all grass seed. It is to your interest to get our prices and samples at once. 1910 catalog free.

A. A. Berry Seed Co., Box 103, Clarinda, Iowa

When writing please mention this paper.

The Planter that Never Misses a Hill

More than 110,000 progressive farmers increased their corn profits last year by using the Hayes Four Wheel Planter.

It never misses a hill. You never have to do any replanting.

Improved drop plants every time. Special lower valve throws the seed, with motion of the team, and checks with absolute accuracy.

You can cultivate one to three days sooner if you plant with a Hayes. The runners are set between the wheels and plant all the seed at exactly the same depth. Corn all up at the same time.

Wheels set at angles leave the soil loose on top for shoots to push through. Wheels positively will not clog. No stringing or scattering.

Harrowing levels the ridges and saves one cultivation.

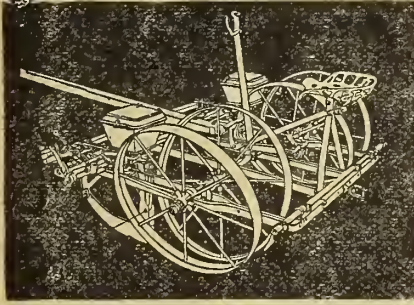
Shortest coupled planter on the market. Therefore lightest draft, and can be turned in shortest space.

Construction simple. It never gets out of fix.

Cut-off positively will not cut or crack the corn. Investigate the Hayes. Talk to any present user.

Get free booklet F. Contains planter facts you ought to know. Detailed description of the remarkable Hayes.

Hayes Pump & Planter Co.
Galva, Ill.



The Great World's Fair Prize-Winning SEED CORN Garden and Field Seeds

WE have the grandest lot of pure-bred seeds ever grown. Also Poland Chinas, Barred Rock cockerels and Scotch Collie dogs. Send now for 1910 catalog; it's full of sensible facts; it's free. J. D. ZILLER, The Farmer Seed Grower, Hiawatha, Kan.

DAKOTA GOLD MINE

THE CORN THAT WILL GROW.
THE CORN THAT GETS RIFE.
THE CORN THAT YIELDS BIG.

Adapted for all central states. Ten other kinds. Write today. Circular and sample free.

L. H. Grill Seed Co., Elk Point, S. D.

CLOVER

"PURITY BRAND" CLOVER is free from foul weeds. It is plump 1909 seed, cleaned and tested. You can't buy better. Prices low. Write today.

The Adams Seed Co., Box 1, Decorah, Iowa.

SEEDS FREE 9 LARGE PACKETS

BIGGEST SEED OFFER EVER MADE
Send 10c for packet of our wonderful Earlibell Tomato and receive four 10c PACKETS FREE of our latest improved varieties: 1 each Cabbage, Cucumber, Melon and Pepper. Also 25c cash certificate for 5 free packets, your selection, or apply as 25c cash order. Send 10c today and receive all above. Our big 100-page catalog free. Address A. A. Berry Seed Co., Box 303, Clarinda, Ia.

SEEDS THAT GROW
Best quality Vegetable, Flower and Farm Seeds, Alfalfa, Clover, Seed Potatoes, etc. We will send free with catalog a pkt. New Coreless Tomato, the best of all tomatoes. **GERMAN NURSERY & SEED HOUSE**
Do not fail to try our Bountiful Collection of Vegetable Seeds, best 5 varieties on earth, postpaid for 40c. We also carry full line of Nursery stock. German Nurseries Box 114, Beatrice, Neb.

CLOVER

New Crop Iowa Grown Re-cleaned TESTED and inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc. at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free. IOWA SEED COMPANY, Dept. D1 DES MOINES, IOWA.

Strawberry Plants THE best varieties Write for catalog. W. W. Thomas, THE STRAWBERRY PLANT MAN, ANNA, ILL. Rubarb and Asparagus roots

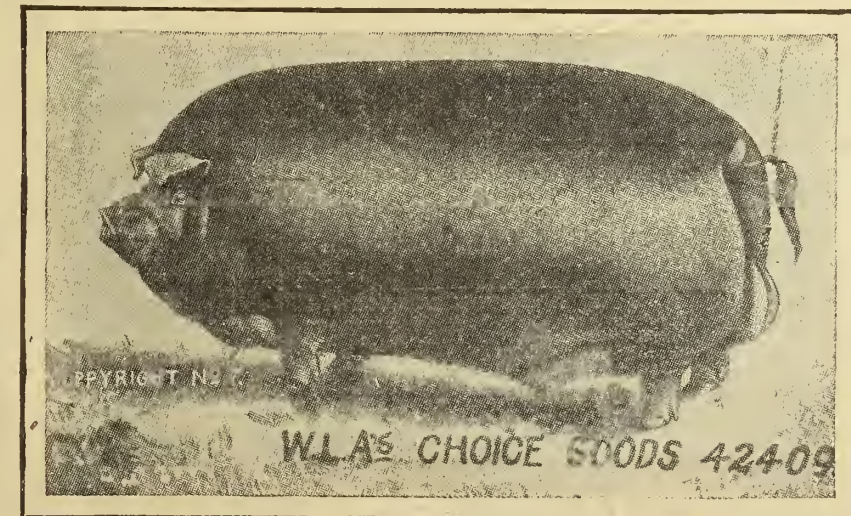
When writing to advertisers please mention this paper.

cles may not be imposed upon the farmer. In view of the fact that many states are enacting such legislation, the manufacturers are warmly in favor of a national law which will govern interstate traffic and which will tend to secure greater uniformity of state legislation. While the passage of such a national law would not prevent state legislation, it would in most cases make special legislation by the states unnecessary and where states desired to legislate they would tend to pass laws similar to the national law. Several conferences of entomologists, agricultural chemists and manufacturers have been held and practically all of the large manufacturers of insecticides and fungicides are heartily in favor of the measure which is drawn to protect the legitimate interests of both the consumer and the reputable manufacturer.

The measure has been again introduced at the present congress in the house (H. R. 2218) by Hon. E. A. Hayes, of California, and has been referred to the committee on interstate commerce. The bill will also be introduced in the senate and an earnest effort will be made by the executive committee representing the entomologists, chemists and manufacturers to bring the measure to a vote before congress. Practically all the leading horticultural and agricultural organizations of the country have endorsed the measure. It seems probable that the bill will be passed by congress if the members of congress became convinced that the people wish and need such legislation. At the last session of congress the bill was favorably reported by the senate committee on agriculture, but this report was so late in the session that pressure of other business prevented vote at the short session. In their report this committee stated as follows:

The bill was referred to the secretary of agriculture with the request for his views thereon and the measure as amended is exactly in line with his recommendation. The legislation has the unanimous endorsement of practically all the organizations of practical growers in the country, as well as the National Grange, the National Apple Growers' Congress, the American Association of Economic Entomologists and in fact all the organizations representing the consumers. On the other hand, practically all of the leading manufacturers are heartily in favor of the measure. Your committee considers the legislation of vital interest to the fruit and truck growers of the country and recommends its enactment in a law.

We hear very frequent complaint of impure or ineffective insecticides. In many cases these complaints are unwarranted and lack of success is due to improper usage rather than poor quality, but there is no question that inferior goods are on the market as shown by the publication of analyses by some of the experiment stations. In the last Year Book of the United States Department of Agriculture it is stated that the bureau of chemistry has analyzed samples of arsenate of lead which were practically nothing but white arsenic. This would, of course, be quite injurious to foliage. The sale of such an article is not only unfair to the consumer, but hurts the



On Monday, January 24th, the old established herd of Durocs owned by Messrs. W. L. Addy & Son, of Parnell, Mo., will be dispersed at public auction. Messrs. Addy & Son have held a unique position in the Duroc world for twenty years or more. Their herd has always been well patronized by breeders and farmers. They have maintained a great lot of brood sows and the boar, W. L. A.'s Choice Goods (illustrated above), has for three years made a fitting head to so good a herd. He sells. Some twenty head of his get go and their greatest sows sell safe in pig to him. The breeder who gets Choice Goods will at once bring his herd into prominence, as he will have added to his herd one of the greatest boars of the breed. Choice Goods is as good today as when a yearling. His great constitution and the judicious handling he has had insure his being useful for years to come. Remember, the sale is Monday, January 24th, also remember that Crimson Chief, one of the best sons of old (Crimson Wonder, sells (he is a great herd boar, too), and that you get a chance at all of Messrs. Addy & Son's best sows. Send today for catalog and arrange to be on hand sale day. See advertisement on page 49.

SAVED 1 1/2 To 2 Bus. SEED PER ACRE

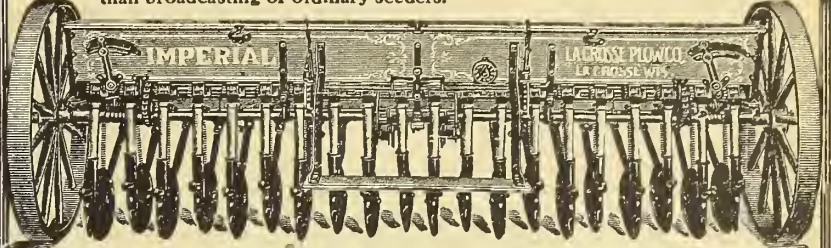
GETS BETTER STAND

than others who sowed more seed. That is, what Paul Lehmann, Earlville, Iowa, did with his Imperial. He says he has used several other makes of drills but the Imperial is the bell-ringer—on account of its Horse-Lift, light draft, ease of handling and saving of time and seed.

Mr. Lehmann sowed in ground where a disc pulverizer clogged. He also sowed in mud and worked in stalks, but still had no trouble.

THE IMPERIAL HORSE-LIFT DRILL

sows evenly and covers every seed, producing a heavier yield from less seed than broadcasting or ordinary seeders.



The Horse-Lift raises the discs at the ends—no work on your part except driving. It's a money, back and trouble-saver. Easy on the horses because there is no neck-weight and the draft is light.

The Imperial not only has the above-named features that others have not, but also has all the other features that are found in other drills.

Don't think of buying a drill before you investigate the IMPERIAL.

Have you our new drill booklet? No? Well then send your name today. We want you to have one before they are all gone. Be sure to write today.

La Crosse Plow Co., Dept. M La Crosse, Wis.

HORSE-LIFT FREE with EVERY DRILL

Planet Jr.

Planet Jr. Farm and Garden Implements do more and better work, and last longer than any other farm implements made. They are fully guaranteed. Over 35 years' actual farming and manufacturing experience is put into every Planet Jr.

No. 6. The newest Planet Jr. Combination Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow, opens the furrow, sows seed in drills or hills, covers, rolls down, and marks out the next row—all at one operation. Also a perfect Wheel-Hoe, Cultivator and Plow.

Planet Jr. 12-tooth Harrow, Cultivator and Pulverizer is a wonderful tool for berry-growers and market gardeners. Works deep or shallow, without throwing earth on the plants, and pulverizes the soil thoroughly. Invaluable wherever fine close work is needed.

Write today for the 1910 illustrated Planet Jr. catalogue. It is free.

S. L. Allen & Co. Box 1105D Philada Pa.

You will be satisfied with the products of Burpee's "Seeds that Grow"

Shall we mail you our New Complete Catalog?
W. ATLEE BURPEE & CO., Burpee Building, Philadelphia.

sale of properly made arsenate of lead, than which there is no better arsenical insecticide. If the fruit and truck growers and farmers of the country desire such legislation for the control of the purity of insecticides and fungicides they should let their congressmen hear from them in favor

of the passage of this measure (H. R. 2218) at once and make their position clear as to the need of such a law.

If you are interested in this write your congressmen at once, stating that the bill is before the committee on interstate commerce and you wish their influence towards favorable report by the committee and prompt action by the house. Write at once, as the matter is being pushed for speedy consideration. If everyone interested will thus show their interest the law can probably be passed.

E. D. Sanderson.

THE NEED OF CLEAN SEED.

Grain dealers each year discriminate more and more in favor of grains which come to them clean and free from foreign matter. This means that there is a more urgent necessity than ever for the sowing of seeds that are not contaminated by weeds. The only way to raise clean grain is to sow clean seed. Grains which come direct from the thrasher are unsatisfactory for use for seed purposes because the thrasher does not separate weed seed sufficiently well. A fanning mill and seed grader, therefore, is an absolute necessity on every farm. As such an implement we recommend the famous Chatham fanning mill, seed grader and cleaner, as advertised on page 4 of this paper. This machine has stood the test of many years and fulfilled every requirement. The manufacturers are so well satisfied with it that they agree to send one to every farmer who reads this paper and pay freight charges on it in advance, giving a free trial of thirty days without asking any money down or any deposit in advance. The manufacturers also publish a fanning mill book that gives some facts and figures that are of intense value to every farmer and grain raiser. For a copy of this book write to the Manson-Campbell Company, Detroit, Mich., asking for their fanning mill book No. 124. Do not put this off, but write at once.

Ask your neighbor to subscribe for The Homestead.

OUR HOME DEPARTMENT

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

It is one of the promising signs of the times that we are learning that the best way to cure crime and disease is by preventing crime and disease.

Years ago both philanthropy and medicine were curative; that is, they dealt with results instead of causes. In consequence there was never any relief in sight—every year saw a fresh crop of criminals, paupers and invalids. At least we are learning better—modern publicists and physicians are probing down trying to find what causes poverty, sin and death. Instead of lopping off the branches of these undesirable trees they are working at the roots.

Physicians are foremost in this new movement. With a public spirit which is most commendable they are holding public meetings, trying to teach people and communities how to avoid ill health, and how to check the spread of infectious diseases.

Attending such a meeting a few evenings ago I was staggered by the statistics quoted by the president of a state medical society, regarding the number of deaths from tuberculosis and the way in which the disease is spread.

The fact is now substantiated that the bacilli or microbe which causes this dread disease is in the sputum coughed up by the person afflicted. Where this sputum is allowed to dry and its particles to infect the atmosphere whole families and, sometimes, a whole neighborhood, is attacked by the plague. Owing to this fact the widest publicity should be given to the fact that expectoration should be in a cup whose contents should be buried deep or burned.

To think of the danger where proper precautions are not observed is to realize how very necessary it is to protect the public which is dependent upon railway carriages for transit and upon hotels and lodging houses for shelter. It is not at all uncommon for consumptives in the last stages of the disease to occupy railway coaches with other travelers, to sleep in berths which are occupied the next night by others and, sometimes, to cough their lungs away on the home journey from some health resort which failed to check the disease.

All this is a menace to the public health and should be remedied, but so long as people are careless as they are about sewage and water supply around their own premises there is little use in agitating for large reforms.

It is time we all gave more thought to these matters. There is special need of reform in the country where each family is, in large measure, a law unto itself.

We need to agitate until stables and

manure piles are removed so far from the dwelling house as to free the home of the plague of flies which too often infest it in summer time. We need to pay more attention to sanitary out-houses and the carrying off of stagnant water which breeds malaria. And we need to take greater precautions to prevent milk and water becoming polluted as they too frequently are by the presence in their neighborhood of garbage and other filth.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

A smile, a word, a touch (and each is easily given),
Yet either may win a soul from sin,
Or smooth the way to heaven.
A smile may lighten the failing heart,
A word may soften pain's keenest dart,
A touch may lead us from sin apart;
How easily either is given!

QUESTIONS.

Got some good reading matter around the house for the boys and girls during the long winter evenings? It's a mighty enjoyable, as well as profitable way to put in idle time near a warm fire while the winter wind is howling outside.

Don't you think it would be a good idea if you and your neighbor visited a little more? There's nothing like talking things over and comparing notes. Men engaged in the same line of business always gain something by frequent contact with each other.

Say, brother farmer, are you and your boys real chummy? Do you take an interest in their troubles and aspirations? Do you ever take a day off and go hunting with them or perhaps to town to see an occasional theater? If you are not doing this, turn over a new leaf. Get into their confidence, enter into the things they enjoy and then see how much more gladly and joyfully they will go at the day's work—how much harder they will try to please you.

P'S AND Q'S.

The company forms a circle, and one person stands in the center as a questioner. In the answers to be given a forfeit is required if anyone names a town beginning with a letter standing before Q in the alphabet. The leader may, perhaps, begin thus:

"Louis Napoleon is at the head of the army in Italy; where is his next move? Tell us where he is going, but mind your P's and Q's."

The unthinking speaker answers "Milan," for which a forfeit must be paid, as it stands before Q in the alphabet; and so the game goes on.

CHILDREN'S STOCKINGS.

It is a good plan to reinforce the knees of children's hose with a round or oval piece cut from old ones of the same color and neatly cross stitched to the wrong side of the hose with cotton threads, and a piece of soft cambric basted in the heels of the children's stockings will save patching, and they will last twice as long as they otherwise would. While stocking darning should receive due attention, it is poor economy to do too much of it, and the elder girl's stockings can easily be remade for the younger ones, thus doing away with so much darning, and a good pattern of any size can be bought for a trifle, but the seams should be carefully run flat so as not to hurt the tender little feet.

Stockings that are outgrown can be made over by piecing them at the top and making new feet from the legs of old stockings, and old socks with worn feet can be made over for the small children.

FOR THE COOK.

Graham Gems Without Eggs.—Two cupsful of sour cream, three cupsful graham flour, one teaspoonful soda, one teaspoonful of sugar and a little salt. Bake in a hot oven fifteen minutes.

Apple Sauce for Roast Goose.—Apples should always accompany goose and pork. You may serve a good apple sauce or peel some fine ones and cut into quarters, removing the cores. Make a sirup of a cupful of sugar and a cupful of water, letting it cook five minutes; then drop in the apples. Cook until transparent, but do not let them break; remove to a dish, boil down the sirup and pour

Cut Down Cost of Bread!

Did you ever stop to think that you should save money on bread? Well, you *can* save—far more than you realize—and get far better bread, too, by baking with

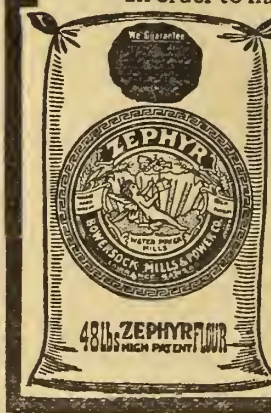
Zephyr Flour

for it makes more bread, biscuits, pies, etc., than any other flour. Better bread for less money—that's our proposition! Such a flour is just what you want, isn't it? Then try a sack of Zephyr flour at our risk to prove that this is your flour ideal. If you are not fully satisfied after using half the sack, return the remaining half to your grocer. He will promptly refund the full purchase price of the 48-pound sack.

Zephyr is the only guaranteed flour. It is guaranteed to fully satisfy you as to greatest number of loaves and as to quality.

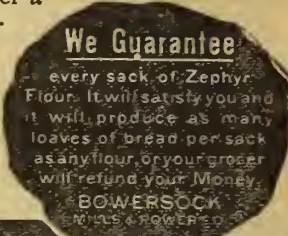
In order to have more and better bread from your flour demand Zephyr flour—insist upon getting it—no other can even compare to this wonderful Kansas hard wheat flour. It *must* "make good" and it will. We take that risk.

Now please learn the goodness of this extra-rich-in-gluten flour—order a sack from your grocery-man today.



Bowersock Mills & Power Company

Lawrence Kansas



over them. Bits of lemon peel may be added if liked.

Sausage Rolls.—Make a pie crust dough; cut off a piece the size of a biscuit, roll it thin and round, and on one-half of it place a cake of fresh sausage; then turn the other half over the sausage, making it half moon shape. Pinch the edges of dough together. Place in a baking pan and bake an hour or more, according to heat of oven.

AMONG OURSELVES.

It seems to be so difficult to get discussion of a subject like the attitude toward Santa Claus started early enough to be helpful at the time that instead of discussing the matter now, as was announced, I think it better to hold over the letters received—there are only a few—and introduce the matter early in November of 1910. This leaves us free today to devote ourselves to other matters of current interest.

Last week M. H. L. was given considerable time and so today we shall give the case of the little wife the precedence. Her letter has struck a responsive chord in the breasts of a number of our readers. The result is a number of letters which should prove interesting to husbands and wives generally. Our first is from Mrs. Kelley:

I will try and tell this little woman, who seems to be so lonesome for a true husband's love, that all she and her husband both need is the real, true and loving spirit of Jesus down deep in their own souls. I will ask her to just tell her own husband how she would like to live and would like for him to be. Try to get to understanding each other better by talking about the things that make men and women better. While on this earth I do not believe that people as man and wife really know each other as they should, but my husband has no secrets whatever that he keeps from me and I have none that I keep from him. I honestly believe that what honest so much misery is just from good, canes people having secrets that they withhold from one another.

The re-establishing of heart-to-heart relations where husband and wife have drifted apart is a difficult task, but it must be accomplished. Mrs. Kelley is right about this.

Clara Wiley does not agree with her that children in the home are a help:

To the sister who wrote to the Home Department regarding the coldness growing between herself and husband, I have found that it is hard for an outsider to give advice except in a general way. I have passed through a like experience and know that it requires an immense amount of determination and tact to carry one safely through. I lacked the necessary tact, so had only a strong determination to carry me through. I read somewhere that "no case was hopeless where the wife possessed determination to succeed, neatness and economy." I felt sure that I possessed these, so I went to work with a will. I have found that cheerfulness and a knack of looking over all the trivial affairs of life

are necessary. "Rise above your trouble, study to develop the nobler impulses of mind and heart." I should ignore the fact that my husband had failed to include me in his plans, but when he mentioned that he is going to town, just very firmly, but decidedly say, "My dear, I believe I will accompany you," and I would make myself so agreeable that he would find that I was indispensable to his happiness. Talk with him some evening when he is in a talkative mood and persuade him to accompany you to church. "All men want to do right," or think that they do. It is rarely a man will forbid his wife going to church if he is approached in the right way. Find out the right way to approach him and half the battle is won. Remember your courtship days, use the same delightful ways to keep your husband's affections that you used to win him. Don't fail to be affectionate, love him and let him know it. Show him that you mean to win him back and don't leave a stone unturned to win. Don't despair if he does not seem to notice at first. "If at first you don't succeed, try, try again." Men are wily creatures and want to be sure that you mean it all. If there are small children, then is when it becomes harder for the mother to devote herself to her husband. He feels that he is neglected and the wife is worn out with the care of the little ones and needs rest or a change. Yet with a strong determination you can succeed. You will find that your husband is the dearest creature on earth and he will wonder how he ever allowed a coolness to come into his manner.

The average woman does not know how it came about that her husband fell in love with her. This makes it a bit hard for her to use the "same plan which won him" except in a general way. The thought is worth consideration, however, because it says broadly, "Be your most charming self," and wives sometimes forget to be this.

Cousin Sallie comes with definite advice which may prove suggestive:

A word to the woman who asks "O do please tell me what to do in a case like this," and begins her wail by saying "I have a good husband." Well, my sister, you have much to be congratulated on, now manage him. You say he seems to be growing cold toward you. Maybe not; perhaps he is just unthoughtful. "He will go to town, never asking me to go along." Don't wait to be asked. Tell him, as one wife did, when you see him getting ready, "I can be ready in fifteen minutes." He will look surprised, but may be really glad of it. "I do all the work without a word." Of course, you will be allowed to do that by many men who are not mean, only a trifle indifferent. "He won't allow me to go to church." Now, my dear, next meeting day show your tact. Get ready for church calmly and pleasantly. If convenient enough, walk; if not, go some other way. If he goes with you, surprise him with pleasing topics. If he doesn't go, kiss him on the forehead, a wifely right, but go with the right spirit in your heart and you will both be helped. There is a saying, "We would love each other better if we only understood." Sometimes we don't try hard enough to understand each other's hearts. Now, let's sum it up. Do you know music? If so, play on that chord of a good husband you can do so much. Sit at the close of the day—maybe it's been trying to both—lay your hand on his, as perhaps it rests on the arm of his chair. Don't say much, but let it be restful. You will find that cold feeling warming, that jealous feeling

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READ HOW THE MONEY ROLLS IN.

Managers—Men and women, at home or traveling, all or spare time to fill orders, appoint, supply, control sub-agents. You can't make a mistake. This is great. Easiest money ever earned. Now makes \$30 weekly. Writes "Sold 15 cleaners today. Success is sure." That's the way they all read—So hurry and write. SEND NO MONEY—Just your name on card. We'll send full instructions and offer good territory. We'll help; we'll start you making money. Write. STRONG MANUFACTURING CO., 439 Alms Bldg., CINCINNATI, OHIO.

fleeing away. God forbid that it should ever come between husband and wife. If doing more than your share, don't do it expecting praise; the praise might spoil you. Just be a sensible helpmate and if he is a good husband he will appreciate it. It may be in his way of showing it, but the "Well done, good and faithful" is sure to come.

Cousin Sallie touches a sensitive note in her last words. A good, loving woman is very apt to do not only her full share, but more, and even a good man frequently takes it all as a matter of course—or seems to—and while the wife does not work for praise her heart longs for appreciation and her love is chilled if it is withheld. It is there the danger lies, for if her love grow cold, if she cease to be affectionate as of old, the breach widens. Here comes the need of a closer understanding, of openness and gentle frankness that the breach may be closed while yet it is small.

A new reader who signs her letter E. writes as follows:

I am more than a little interested in the "little woman" who is asking advice. I think she is a very conscientious person, but feel sure she is not "on the right road." It is no one's duty to do more than their share of work or humoring just to keep peace. And there are but few men who do not have more respect for the woman who stands up for her rights and shows some independence than the one who is his servant and allows him to drive and dictate for her. I think what would be best for her to do is to tell him next time he went to town she wanted to go along, and then be ready and when she sees him getting ready just dress, then go and get in. If he should drive off without her, have it understood that there would have to be a change, that she had taken this treatment as long as she intended to; that in the future she was going more; that she was going to church and would like to have him go with her, but if he would not she would go alone. I think, as she does, that "religion helps with the daily cares." Then if I were she I would attend the church socials and mingle with the good people. I know of a young woman who has tried this plan and says it helps her to bear the unpleasant things of the home life, from one time to another. I would not antagonize, but make things as good as I could for his comfort in the house, without overdoing. She says he is good, but not in what respect. If he is industrious, that is good; if he is a good provider, that is good; but he certainly has some faults that he ought to be broken of, and nothing will do that like independence on her part, but not like

one I know who lives near me. Her husband was surly and spoke to her as he would to his dog and never wanted her to go anywhere. She spoke to me of his actions and I advised her as I have here done, and she tried it, but has gone too far with it. She now tells him to hitch up for her, and if he asks if the meal is ready, she answers, "Just wait till I get it," and has gone so far as to tell him she will not cook for his folks and he need not invite them. But I do not think this "little woman" would go beyond reason. She is only heart hungry and wants love. There are many others like her and they have my sympathy. I do hope others will write on this subject and advise. They may give advice that is better than mine. I hope for the best for this hungry soul and wish I could see and talk with her, but I will remember her to my heavenly father, who never lets a sparrow fall to the ground without his notice.

E. recognizes a difficulty which may be very real—that there may be serious fault on the husband's side owing to defects of character. Where this is the case patience, forbearance and tact are the wife's best weapons. And with the use of them a determination not to allow her life's happiness to be destroyed because of her failure to find in marriage what she had hoped for. A wife is prone to let her home and its interests bound her life's happiness, but it is a mistake. Death, if nothing else, may wreck the life in such a case. To use a homely phrase it is never wise to send all one's eggs to market in one basket. The wise woman cultivates outside interests.

Mrs. A. F. offers some advice, the need of which is hinted in the little wife's letter:

Yes, as the editor says, people usually have their little troubles, but when a woman does her whole duty by a man, and then he acts as this woman's husband does, I say don't waste any love on such a one; he cannot appreciate it any more. Keep on doing your duty, nothing more; look above and beyond him for happiness. If you cannot find it with him, perhaps you have thrown yourself under his feet too long. A real man might tire of stepping on or over his wife. Just act perfectly independent of him and in time he may see where he stands. But don't cast pearls before swine, or—you know the rest.

The American wife usually preserves a certain independence of spirit and her husband respects her the more for it, but we have a large number who come from Europe, where, especially in the lower ranks of life, the wife thinks of her husband as her master and the husband of his wife as one in duty bound to obey and to fetch and carry for him. In such homes for the wife to imbibe the new ideas is to make trouble, though it may make for future happiness. The latter depends upon the character of the two concerned. If the husband is coarse of fiber unless the wife is singularly wise and brave and persistent the experiment is fraught with danger. All of which is a look forward as well as behind.

Mrs. Lucas brings these good words:

This letter is addressed to the woman who appealed to us in last week's issue. My dear sister, I think you and your husband have fallen into a rut which you must get out of before it is too late. You "mind him in everything he says?" A sad mistake, indeed. Don't refuse to do a thing simply for the sake of being contrary, but don't do any more work than your strength will permit you to do. Show him that you have a mind of your own and that you intend to use it, and he will admire your spirit of independence. The next time he calls you "lazy," don't get angry, but jokingly tell him that you guess it's being associated with him so long that has made you so. I think a few little taunts like this will soon "break" him. Then, you are both a little jealous. Jealousy is a bad thing—it breaks both hearts and homes. Now, you should not be jealous of your husband talking with other women so long as he carries himself as a gentleman. And there is no cause for jealousy on his part so long as you act the part of a lady and neither do nor say anything improper. You love him. That is good and no doubt he loves you just as much. Now, fix matters up with him, won't you, and have some good news for us next time?

Sometimes where young men and young women have been a little free and familiar before marriage one or the other resents a continuance of the old manner. Here again discretion is necessary. And there should be such mutual desire to please, as will produce a resolve to forego anything in reason which gives pain.

Olive Green has brought us such good advice in times past that what she has to say at this time will be eagerly listened to:

Well, well! I was never so moved to express myself in my life as when I read the letter from the little woman wanting advice about her husband's treatment. When, by your sixth sense, you know there is to be a trip to town, why just take it for granted you are going and appear all ready,

From Bakery to Farm

Soda crackers are a long time on the road to the country store, and from there to the country home. But

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—no matter how far they journey, never become travel worn. As you open their moisture proof protecting package you always find them not only store fresh, but bakery fresh—clean, crisp and whole.

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hatted, etc., and be so sweet and jolly that there isn't anything said and make the trip to town so jolly that he'll ask you next time. What have you been doing all these years? Where are your winning ways? Don't you use a curling iron and massage cream? Make your home such a pleasant place and yourself so attractive that your husband won't ever think of other women, and then you are a Christian and a church member. Where is your Bible, your faith in God who answers prayer? Why, I would pray without ceasing and fast for forty days to bring happiness into my home. Now, don't say I don't know. I have been married ten years and my husband is still my lover and I wrote a letter to the "Home Department" on something along this line once before and made the assertion (and it has never been disputed in these columns) that a woman has a twine string for a spinal column and sawdust for brains that cannot turn her husband around her finger, and I reiterate it here. So spunk up and see how very much there really is in life for a woman who is married to a good man (make him good) and has a home of her own. Don't you ever have eggs to sell and buy gloves (the boys' gloves, three pairs for a quarter) to keep your hands white and don't overwork. It isn't smart to do it. To M. H. L. Did you explain the state of your heart when this man was proposing so many times and did he still insist that that made no difference? If so, now you have promised and if you thoroughly understand each other, you should marry him and make it your life work to make a happy home. Study your husband and there is a way to reach anyone. I don't know what you could be thinking of to promise to marry a man that drank. Anyway, you undoubtedly took him on probation, and if he lives through that then you have a pleasant task before you of making your life what you wish. Happiness is from within and I wish you Godspeed. I believe I could win in your place and if your determination is sufficient, you will win. Of course, married life has its "ups and downs," but don't you have them when you are single? What is nearer heaven than the love of a good man? What greater joy than a home to keep? Do you never look at your husband, you who are married, with the great and overwhelming joy and pride of possession? Do you make it your chief occupation to see that the answering chord

is theirs in the corresponding feeling when that only man looks at you?

I had not intended that M. H. L.'s affair should come up today, but Olive Green ran on into it so we shall consider her closing remarks as introduction for our next meeting.

Let me say in closing that I believe it would add for home happiness if husbands and wives made a habit of reading *Among Ourselves* aloud together. Try it, friends, and report. Some of the happiest hours the Only Man and I have are when he reads and I rest or busy myself with my needle.

DRESSMAKING—NO. 58.

[This department is prepared specially for *The Homestead*. All inquiries and remittances for patterns described under this heading should be sent direct to *The Homestead*, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

The plain seven-gored skirt is always a satisfactory one. It never goes out of style, it is very generally becoming and in every way satisfactory. This one is adapted to every material that is used for women's skirts, for it can be made plain or trimmed or can be treated in any way that may be liked. In the illustration, however, one of the new diagonal serges is finished with a stitched hem. The skirt can be made in the length illustrated, shorter or in the pretty round length that is so graceful for indoor wear.

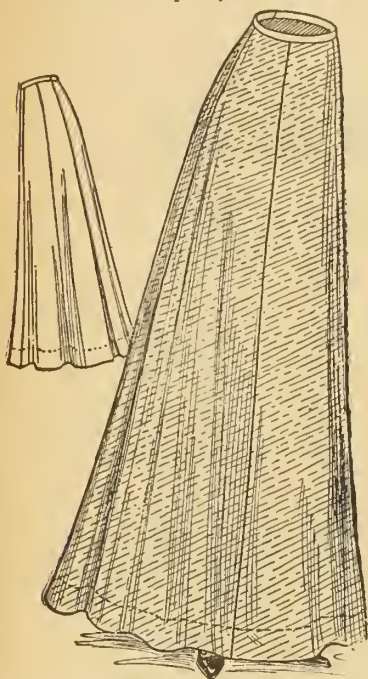
The skirt is made in seven gores. It is fitted with perfect smoothness over the hips and can be laid in inverted plaits at the back or cut off and finished in habit style as liked.

The quantity of material required for the

medium size is 10 yards 24 or 27, 6½ yards 44 or 4½ yards 52 inches wide if there is figure or nap; 7 yards 24 or 27, 3½ yards 44 or 3¼ yards 52 inches wide if there is neither figure nor nap.

The pattern 6514 is cut in sizes for a 24, 26, 28, 30, 32, 34 and 36-inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

Such a plain blouse or guimpe as this one can be made available in many ways. It can be made from all-over lace as in this case, it can be made from plain material braided or embroidered, it can be made from one of the new jetted nets or materials of the sort and it can be worn as a blouse or as a guimpe. Utilized in this last way it is singularly well adapted to wear beneath the new chiffon over-blouses and will be pretty made from flow-

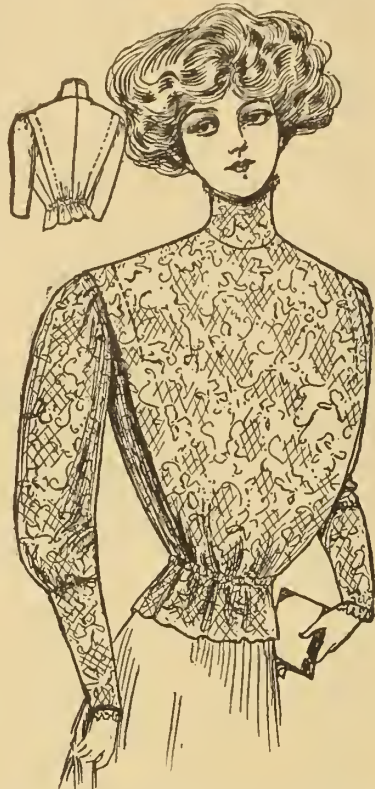


[6514 Seven-Gored Skirt, 24 to 36 Waist, —In Walking or Round Length, With Inverted Plaits or Habit Back.]

ered or fancy material. The tucks over the shoulders mean just becoming fullness without any effect of elaboration and there is a choice allowed of the sleeves illustrated or

of plain ones that can be either long or in elbow length.

The blouse is made with a fitted lining, which is optional, front and back. The tucks are stitched to yoke depth at the front, but for their entire length at the back and the fullness is arranged in gathers at



[6516 Blouse or Guimpe, 34 to 44 Bust.—To be Made With or Without the Fitted Lining, With Fancy or Plain Sleeves, in Full or Elbow Length.]

the waist line. The fancy sleeves consist of deep cuffs and puffs. The plain ones are made with upper and under portions.

The quantity of material required for the medium size is 3¾ yards 21 or 24, 2¼ yards 32 or 1¾ yards 44 inches wide.

The pattern 6516 is cut in sizes for a 34, 36, 38, 40, 42 and 44-inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson II.—Matthew 3, 13; 4, 11.

January 9, 1910.

The Baptism and Temptation of Jesus.

The temptation of Jesus has been declared the most difficult of all the events of sacred history to interpret; but the difficulty is reduced to a minimum if one keeps in mind that Jesus had a true human soul, with all its natural powers. It has been well said that in this fierce conflict Jesus raised himself from the state of natural and instinctive innocence to a holiness of choice—a perilous transit, in which the first Adam fell, but in which the second Adam conquered by the sole arms of faith and prayer, and not by girding on an impenetrable panoply of Godhead. Jesus had become aware of the mighty miracle-working power with which he was invested; also of the lowly and suffering way in which his Messianic kingdom was to be established. These disclosures were enough to impel him to some uninhabited place, where he could develop a plan of procedure. Just as Jesus emerged from his long period of absorbed meditation, and his physical nature asserted its claims, the tempter

injected the thought, "If you really are as you imagine, the Son of God, command these loaf-shaped stones to be changed into bread, and by that means assure yourself of your divinity, and appease your hunger." But Jesus responded, "The Israelites were forty years learning dependence upon the promise of God. With their example I ought to learn the lesson in forty days." Again Jesus felt himself to be standing on a dizzy height. The devil wanted him to entertain in his mind the purpose of casting himself down; but Jesus considered that to make an emergency for the sake of display would be despicable. Finally, Jesus knew he was to set up a kingdom on earth,—slowly, and by his own suffering. Now, the kingdoms displayed to him as in a panorama are offered to him instantaneously by the god of this world, if he will serve him as well as his Father, and make his mission a temporal one, such as the Jews were expecting. The moral nature of Jesus rises to its full height, as he scorns the suggestion, and cries, "Begone!" to the tempter.

The Teacher's Lantern.

In his baptism, Jesus was both identified with and separated from sinners. After all the people had been baptized, he, apart from them, received the rite. And John expressly affirmed that he stood in no need of it as a sign of repentance or cleansing, but for exemplary purposes, he on his own part proposed to submit to it. Some time since there was talk of a patent bullet-proof cloth, which could be cut and made into garments, which should absolutely protect the wearer. Did the divinity of Jesus form such an impenetrable armor? Then, how was he tempted, as we are? His was a sham fight in that case. It is entirely an indifferent matter whether one be-

It's a Shivery Job

Do you remember last winter—thermometer down to zero? You were only half dressed and sleepy. You had to start the fire with coal—shake down the stove—poke out clinkers and sift ashes—nearly frozen. Then the fire went out and you commenced all over.

You didn't like it, did you? If you don't want to repeat your experiences

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The fuel that lasts all night—can be smothered until needed, then a couple of shakes and the house is warm, while you would wait for hard coal to get started. No ashes to sift—no smoke nor dirt. Does not burn out fire-pots or grates.

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\$3.50 and \$4.00**

us your dealer's name if he doesn't handle our shoes, and we'll send the test tag and also the shoes if you tear it. **BENTLEY & OLMSTED CO., Des Moines, Iowa**

Tear Tag for FREE Pair of Shoes

Your dealer has a tag for you—it's a little Buffalo Calf made from the same leather as our Buffalo Calf Shoes. If you can tear the tag, you'll get a pair of Bentley & Olmsted Company's best Buffalo Calf Shoes, absolutely free. They're made from the hides of young, inside-raised, well-fed, summer-killed cattle, and combine all that's good in other work shoes with many valuable features found in no other shoe.

B. & O. Buffalo Calf Shoes

Our leather is all specially tanned to set the fibre closely together, add to the wearing qualities and at the same time get the highest degree of smoothness and flexibility without the use of powerful chemicals and artificial greasing. The soles are made from best grade Hemlock tanned Texas steer hides. Send us your dealer's name if he doesn't handle our shoes, and we'll send the test tag and also the shoes if you tear it. **BENTLEY & OLMSTED CO., Des Moines, Iowa**

believes this a literal approach of a personal devil or a figurative description of a moral struggle entirely subjective. The outcome is the same. In this exposition personification is used merely as a matter of convenience, not as an expression of belief. The devil showed Jesus a short cut to his kingdom. He is doing the same for men today. He whispers to the bank cashier: "Why plod along at this slow pace? Why let these funds lie idle?"

Under your skilful manipulation you can make them double themselves. You can readily replace them, and, if your conscience ever troubles you, you can put a poultice on it by endowing a college." The devil has yet the subtle power to spread a mirage of all the kingdoms of earth, and all their glory and "barbaric gems of gold" before the eyes of the ambitious, and proffer them if only one will install him as master.

THE YOUNG FOLKS

A Little Cripple Boy.

This is Christmas Day, and I cannot get out and I thought I would drop you a few lines to let you know that I am well. I go to school in the second room and in the seventh grade. I am twelve years old and a cripple, and can't walk, and my sister takes me to school. This is a very blustery day here in southeastern Iowa. It is blowing and drifting the snow. I had a hard time to get to the barn to feed my colt which my papa gave me. I attend to it when it is so I can and I have a few pet chickens to attend to. It has been very cold and then I have to keep them shut up all through the snow; they like to be out, but I can't let them, for they will freeze their feet off. Well, I think Santa Claus had a very bad night for getting along last night, but he came all right, for he fetched me a suit of clothes which I was needing and he fetched my older brother a pair of fur gloves. Well, as this is my first letter I will close by

wishing you a merry Christmas and a happy, prosperous new year.
Rome, Iowa. H. O. Fields.

A Busy Day.

It was the 23d of December and there was to be a program and a Christmas tree at the hall in this town. We went and the program was fine and the tree was lighted up beautifully, and then came a delightful time when the presents were taken off and given to the people. As we went out to go home each child was given a sack of candy. The next day we were hustling around getting ready for the next day, which was Christmas Day. That night we hung up our stockings in hopes that good old Santa might not forget to crawl in our chimney, and he did come, too. I got for presents, a pair of scissors, ribbon, a dress and other things; too many to mention. Then we just got the house straightened up and our breakfast eaten when a lot of company came for dinner. We had



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Shopping District.

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roast goose, dressing, potatoes, jam, Christmas cake, pie, apples, oranges and nuts. After dinner was all over we young folks went for a sleigh ride; we went three miles away from home and then we came back and popped corn and ate nuts. Then as it was growing dark the company departed for home. After we had eaten our supper we went to bed, thus ending our Christmas Day.

Ardoch, N. D. Hazel McDonald.

A Visit With Relatives.

I will write you a letter about how I spent my Christmas. I went to my sister's. My papa, mamma, sisters and brother were there. We had a good time. She had two geese, oranges, and other things. She had a big dinner ready for us. We all stayed for supper and then came home to spend the evening. We had music and games, and all enjoyed the Christmas. I am under fifteen years of age, my birthday is the 12th of July.

Randolph, Neb. Hazel Bowles.

Fun With Snowballs.

Christmas eve we were surprised with a Christmas tree. There were about twenty candles burning, and mamma bought lots of decorations, so the tree looked real pretty. We all got many presents. Christmas Day, as my cousins were over, we all went sleigh riding. We took a long ride and came home just in time for dinner. We were all hungry, so we enjoyed a big dinner. In the afternoon we played games and snowballed. We were having such a good time that we forgot all about how late it was getting until mamma called us to supper. I think that was the happiest Christmas I ever had.

Cedar Rapids, Iowa. Emma Klinger.

He Saw Santa Claus.

I live in Ohio near a city of about 6,000 population. We have lived here about one year. We formerly lived in Iowa. I will be ten years of age next March. I go to school in the country. I am in the Fifth Reader, Advanced Physiology, third part of arithmetic, primary history, Long's Language, Primary Geography, and Modern Spelling Book. There are twenty-seven pupils in my school. We had a Christmas entertainment Friday evening. Our teacher gave us a very liberal treat, candy, oranges and lead pencils for head marks. Our teacher's name is Mr. Geo. J. Christman. Christmas morning I went hunting, but did not get any game, as it was snowing so that I could not find any rabbit tracks. After I came back from hunting I read some in a book that was given to me by my uncle as a Christmas present. The subject was "Grit," written by Horatio Alger, Jr. In the evening I went to a Christmas entertainment at a church in the city, where I go to Sunday-school. They had a very good entertainment. I saw Santa Claus; he came in at the front door and went up on the pulpit where the Christmas tree was and said a few words and then went out at the back door. There was a little boy in the audience that wanted Santa Claus

to stay longer. On account of my little brother being sick I went alone, for papa and mamma could not go with me. I arrived home about nine o'clock. I received a number of post cards, lots of candy and oranges, books, a cap and a pair of overshoes as Christmas presents.

Alba Whiteside.

Washington C. H., Ohio.

By a Very Little Boy.

The day before Christmas it snowed and Christmas day the sun shone beautiful. It was a fine Christmas day and everybody seemed happy. Old Santa brought me a boomerang gun, post card album, two books and a toothbrush. I had a fine time shooting the boomerang gun. At dinner time I sat down to a fine dinner. In the evening we all went for a sleigh ride. I am a little boy, seven years old, go to school every day. Myrtle Adams.

Montrose, Kan.

A Visit With Relatives.

Christmas was a very bad day here. It was snowing furiously when I started to my grandma and grandpa's house in Taylorville, with my sister, mother and father. We had a very disagreeable trip through the snow, but reached there in time for the good dinner they had prepared. In the afternoon we went over to one of my aunt's, who lives across the yard from grandma's, where they had the Christmas tree. Several of my aunts, uncles and cousins were there and Santa Claus came and gave us all nice presents. We then had music and played with all the pretty playthings. We returned home about nine o'clock at night, all having enjoyed ourselves very much.

Taylorville, Ill. Laverne Duvall.

Had the Chicken Pox.

I did not spend Christmas very nicely. I had the chicken pox and did not go out of doors very much. In the forenoon I sewed carpet rags for a while and then I played carom. And in the afternoon I sewed some more carpet rags. After a while I went and played with my brother and his toys. I ate candy, nuts and oranges. That night I played carom again and I went to bed and this was the way I spent my Christmas.

Saidora, Ill. Louria Finch.

A Minnesota Christmas.

I will try and write a letter to you. I go to the country school and I learn to read, spell and write. I learn grammar and geography and to sing. I enjoy the school very much. I have many friends and playmates. I play with them at recess. We have an organ at home. I have a nice home and I enjoy it very much. I have four sisters and three brothers; two of my sisters are married. We live four miles from town and one mile from school. We have four rooms down stairs and four upstairs in our house. We have fine weather and fine sleighing up here. We haven't our corn all picked yet; there is too much snow.

Canby, Minn. Adelaide Meyer.

She Enjoys Sunday-school.

I am a little girl nine years old and I am in the fifth grade. My teacher's name is Miss Boyd. Santa Claus brought me some candy and nuts and a new pair of shoes. I go to Sunday-school every Sunday. I enjoy going to Sunday-school very much. My Sunday-school teacher's name is Miss Poire. I have four brothers and one sister.

Quinton, Okla. Flora Fay Ross.

Goose for Dinner.

I spent Christmas at my uncle's and had a pleasant time. We had a fat goose for dinner and it sure was fine. I am thirteen years old and I am going to school and I am getting along nicely. We have got a nice teacher this year. We have had him two years and all the scholars like him fine. I am in the Fifth Reader, spelling, arithmetic and geography, and love to play with my playmates. I live in the country with my father and mother, three brothers and two sisters. I like to live on the farm where birds and flowers grow. We have horses, mules, cattle, sheep and hogs and chickens. I like to raise little chicks.

Sullivan, Mo.

Susie Doyle.

You Should Know

JOE CHAPPLE and his NATIONAL MAGAZINE

At the very heart of national affairs, Joe Chapple and his National Magazine. And here is your chance to make their acquaintance and at the same time get FREE a beautiful book loved in thousands of homes.

Joe Chapple is a man in the midst of things.

He sees with expert eyes all the doings at Washington and tells about them in a way that shows you—as though you saw with your own eyes, and heard with your own ears—all that is done and said in running the tremendous affairs of the government.

No other writer of today has such a remarkable gift of making things live before your eyes—no other so directly, so quickly, so unflinchingly goes to the very heart of things.

Whether he tells about his after dinner smoke with Theodore Roosevelt, or of a chat with Taft about the timber lands, or about a hot, tooth and nail tariff debate in the senate, the magic of his pen makes you live it along with him.

But, best of all for you, Joe sees and writes about things from the farmers' viewpoint. He is a thorough and through farm-reared boy and, as he says himself, will never outgrow it. Naturally, he is keen after the things in Washington most interesting and of greatest value to the farmer. His intimacy with public affairs and public men, and his wonderful gift in writing about them makes his articles on affairs at Washington of fascinating interest and great practical value to everyone, but most particularly, the man on the farm.

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Let us tell you about it.

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No one man wrote this book. Hundreds of authors are represented, selected, not by one or two editors, but by 50,000 of what Abraham Lincoln loved to call "The Plain People." The 50,000 rank and file of people everywhere in this great country, in every station and occupation, entered the Heart Throb contest conducted by the National and judged by Admiral Dewey and Senator Allison, sending verses or prose selection, which, in their opinion, were the best things ever written.

Some selections came from young men and women with all of life and ambition ahead, and their choice were selections that stir to action and inspire with hope, high thought and purpose. Other selections came from those on the other slope of life and from these came gems of thought which have been their towers of strength in dark hours of disappointment, or which have given gentle, sustaining consolation in the hours of deep bereavement.

All are heart throbs, because, at the height of happiness, or in the grave critical moments of someone's life, they have been sources of courage, hope and prompting to better living.

Such a book as this must be loved by everyone in the home, because to everyone it has a special message of tenderness and inspiration.

And this Heart Throb book—the only book of its kind ever published—handsomely bound, and selling at booksellers for \$1.50, we are giving you with six months' trial subscription to the National Magazine, both for only \$1.00. Decide yourself if the National Magazine for six months and this book of Heart Throbs is worth a dollar.

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What To Do For a Cough.

Here is a home-made remedy that overcomes an obstinate cough quicker than any costly medicine you could buy. Any woman can easily make it in five minutes.

Granulated Sugar Syrup....13½ oz.
Pinex 2½ oz.

Put the Pinex in a clean pint bottle and fill up with the syrup, made as follows: Take a pint of Granulated Sugar, add ½ pint of warm water and stir for about 2 minutes. Take a teaspoonful every one, two or three hours. It tastes pleasant—children like it.

This simple medicine is also splendid for colds, whooping cough, bronchitis, incipient consumption, chest pains, etc.

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The full pint of this effective cough syrup can be made for 54 cents. It keeps perfectly, and lasts a whole family a long time.

Strained honey can be used instead of the syrup, and makes a very fine honey and pine tar cough syrup.

One Gallon of Oil For a Hatch

One filling of the lamp; no heat waste; no danger with the

X-RAY INCUBATOR

Thermometer always in sight. Eggs need not be removed during entire hatch. Other incubators require frequent filling and consume three times as much oil as the X-Ray. We absolutely guarantee to hatch 100 chicks with one gallon of oil. The X-Ray controls the flame—burns high or low; generates just enough heat to maintain hatching temperature. Absolutely no waste. Others always use a strong flame and allow the surplus heat to escape.

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Others require 6 or 7 hours. Ventilation complete. Simply raise the lid—all hatching fumes rise instantly. The only really different incubator. Enamel-steel-covered; rosewood finish. Glass doors on top; lamp in center; flame control. Write now for free book and know the greatest of all incubators. Address

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POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc. When they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

Factors Influencing Fertility and Hatching of Eggs.

The conclusions drawn by Professors Pearl and Surface, of the Maine Experiment Station, as a result of considerable experiment work in the hatching of eggs will unquestionably interest a large number of our readers. For instance, there is a small but still sensible correlation between the fertility and hatching quality of eggs. This means that in general or on the average the hen whose eggs run high in fertility will also tend to show a high-hatching quality of eggs (per cent of fertile eggs hatched) and vice versa.

Conditions of housing have a marked and definite influence on the mean or average fertility and hatching quality of eggs. In the Maine experiments it was found that both fertility and hatching quality of eggs were very much better when the breeding was done in a "curtain-front" house, which furnished an abundance of fresh, pure air, than when it was done in what was formerly considered to be a highly desirable type of heated house, without curtain-front, but with a supposedly adequate system of indirect ventilation.

The hatching quality of eggs is in general less variable in proportion to the mean of the character varying than is fertility.

The variability in respect to both fertility and to hatching quality is markedly influenced by environmental conditions (particularly housing conditions).

The individuality of the female bird is a very important factor in the determination of the fertility of eggs. Different individual females have characteristic degrees of fertility of their eggs independent of the character of the male bird with which they are mated. This fact emphasizes the importance to the breeder of trapping through the breeding season at least.

Statistics indicate that there is no correlation whatever between winter (November to March) egg production and the fertility of eggs laid during the subsequent hatching season. In other words, the eggs of the heavy winter layer are not more likely on the average to be infertile than are those of the light winter layer, other conditions being the same.

THE AUTOMOBILE IN PRACTICAL WORK.

The interesting illustration which appears herewith shows an actual occurrence. It is a reproduction of a photograph of a Brush runabout employed in pulling a plow in breaking ground for a new factory of the Brush Runabout Company. The manufacturers assert that while they do not expect this form of power to become popular as applied to plowing, the illustration does show the capacity of their car and the uses to which it might be put in emergencies. The car shown in the picture is the one which climbed Pike's Peak and which has met with so favorable a reception on the part of those who



appreciate a good, reasonable-priced car. The Brush people have been the recipients of such a great demand for their cars that they have been compelled to build one of the greatest automobile factories and one which will be the most completely equipped of its kind in the world. The advertisement of the Brush runabout will be found on page 5 of this paper. While it gives considerable information, buyers will of course want additional facts, which may be obtained by writing at once to the Brush Runabout Company, 173 Baltimore Ave., Detroit, Mich.

Mr. Farmer, Here is a Feed-Grinder Offer



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SENT ON APPROVAL

I offer to ship you a Ditto Triple-Geared, Ball-Bearing, Double-Cut Feed Grinder, without a cent of money in advance, and let it speak for itself in your hands. There are no strings to my

offer—no money in advance, no deposit, no notes, no obligation to keep it if it does not suit. I want you to prove it, on your own satisfaction, on your own farm, that my feed grinder has a larger capacity and runs smoother than any other two-horse-sweep feed grinder ever built. If it doesn't do that, ship it back at my expense.

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The offer is personal to you. I'll not interfere. Try it on your own barn lot, either alone or against any other sweep grinder. You will find the Ditto is the only mill that is ball-bearing throughout; therefore much easier running. It is triple-geared; so both grinding-rings revolve one in opposition to the other, thus giving it a double cut and practically doubling its capacity. It does not choke in grinding green corn or where there has been a job of dirty/husking.

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"OCULUM," a scientific treatment. Cures and renders fowls immune forever to Cholera, White Diarrhea, Roup. Deaths reduced 80%. Successful as vaccination. Doubles egg yield. St inoculates 400 fowls, 600 chicks. Guaranteed. HANCOCK INOCULATUM CO., Inc., Box C, SALEM, VIRGINIA.

There is a distinct correlation between the winter (November to March) egg production and the per cent of fertile eggs hatched during the subsequent breeding season. This correlation is of such sort as to indicate that in general the higher the winter egg production of a particular bird, the lower will the percentage of that bird's fertile eggs hatched probably be and vice versa.

The present statistics do not show any marked superiority of hens over pullets in respect to breeding performance so far as either fertility or hatching quality of eggs are concerned. It must be understood that this is merely a statement of fact and does not constitute any recommendation for the use of either pullets or hens as breeders. That question in-

BEGIN NOW

Now is the time to plan your poultry work for this season. If you need a new incubator or brooder please write us. We will save you money. The materials in our machines this season we bought before the present high prices. We do by machinery what others do by hand. Result—lower price to you. Drop us a postal for our catalog.

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Try Mine FREE

I still have a number of my fine QUEEN Incubators to put out on trial. Drop me a line. I'll send you my new Incubator Book for you to pick out the size you want. I want to show you the incubator that outlasts them all and that's so well made. I prepay the freight and guarantee it for 5 years. Wickstrum, Queen Incubator Man, Box 10, Lincoln, Neb.

SHOEMAKER'S BOOK on POULTRY

And Almanac for 1910 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Daily life. C. C. SHOEMAKER, Box 679, Freeport, Ill.

43 Leading Varieties of pure bred Chickens, Ducks, Geese, Turkeys; also Holstein cattle, Prize winning stock. Oldest and largest poultry farm in the northwest. Stock, eggs and incubators at low prices. Send 4 cents for catalog. LARRIN & HEIZBERG, Box 13 Mankato, Minn.

volves more than the two factors here under discussion.

There is no indication that the fertility of eggs in the pullet year and in the second breeding year are in any way correlated. In other words, a bird whose eggs run high in fertility in the pullet year is as likely as not to produce eggs running low in fertility the second year, and vice versa, when mated with the same male or with males of essentially equal breeding ability as shown by their pen averages.

There is a significant positive correlation between the percentage of fertile eggs hatched in the pullet year and in the second breeding year. In other words, the bird whose eggs are of superior hatching quality in the pullet year will, on the average, show the same characteristic in her second year.

There is no evidence that the character "fertility of eggs" (measured by per cent of eggs infertile) is in any degree or manner inherited. The

character "hatching quality of eggs" (measured by per cent of fertile eggs hatched) is definitely inherited in the female line and probably also in the male line.

POINTERS.

—Rose Comb Brown Leghorn cockerels are offered for sale by Eva D. Tutt, of Alta, Iowa, in her advertisement that appears on this page.

—Mr. J. S. Marshall, of Monroe, Iowa, has Single Comb Buff Orpington cockerels, scored by Judge Russell, for sale. His advertisement appears on this page.

—Mr. Charles Guth, of East Eighteenth street and Logan avenue, Des Moines, Iowa, is offering some choice White Plymouth Rock cockerels for sale in his advertisement on this page.

—Mrs. J. W. Lowe, of Clarksville, Iowa, has Silver Laced Wyandottes (hens, roosters and pullets) for sale cheap, in lots, as per her advertisement appearing on this page of The Homestead.

—Messrs. William Koell & Co., of Hampton, Iowa, are advertising bargains in all the leading varieties of Rhode Island Reds, Orpingtons, Leghorns, Wyandottes and Plymouth Rocks in their advertisement that appears on this page of The Homestead.

—Mr. S. M. Compton, of Newton, Iowa, can furnish Homestead readers with White Plymouth Rock chickens, White Holland turkeys, Pekin ducks and Embden geese. Mr. Compton will quote right prices on this stock. See advertisement on this page.

—Messrs. C. & C. T. Van Lint, of Pella, Iowa, are advertising Buff Rocks on this page of The Homestead. On five birds entered at the Monroe show, they won first on cockerel, first on pullet, first on pen and special for best-colored bird in the show. At the Pella show they won special medal for best bird in show.

—Mrs. J. H. Richardson, of Bristow, Iowa, offers White Holland turkeys for sale in her advertisement on this page. In sending in copy she writes: "I have the best lot of young turkeys this year that I have ever raised. They have large and shapely frames, of good color and I am sure I can please my customers."

—Mammoth Bronze turkeys that were prize winners at the Iowa State Show last week, are offered for sale by Mr. E. H. Bodley, Box 29, Newton, Iowa, in his advertisement that appears on this page. Mr. Bodley also has Single Comb Rhode Island Red and Barred Plymouth Rock cockerels, hens and pullets for sale. He guarantees satisfaction.

—Mrs. F. R. McLaughlin, of Manning, Iowa, in furnishing copy for her advertisement on this page, states that she has a nice lot of choice Silver Laced Wyandotte cockerels, fifty of which score 90, or better, to 93, and as many more that are not scored. She also has a nice lot of Pekin ducks of good size, long bodied, a part of which score from 95½ to 97.

—Mr. Frank Chalupa, of Pleasant Plain, Iowa, is offering fifty Single Comb Rhode Island Red cockerels for farm range, also a number of scored and exhibition cockerels of the brilliant red outer color and salmon under color for sale. These all came from special pens and prize winners. Any reader of The Homestead wanting good cockerels should look up his advertisement on this page.

—Mr. Le Roy Cottew, of Alta, Iowa, writes that he has a very fine lot of Rose Comb Brown Leghorn and White Wyandotte cockerels to sell. He says: "These birds are pure bred, well marked and are farm raised, and are a good, useful lot of birds." Parties who want to get good birds at a fair price should write him at once, as his prices are low for the kind of stock. See advertisement on this page.

—In furnishing copy for his advertisement found on this page of The Homestead, Mr. W. T. Wilkinson, of East Des Moines, Iowa, writes: "The Houdans I am offering for sale are extra fine birds, bred from the very best strains in the United States. I am offering them for sale for the reason that I can't give them the attention they should have, and care for my White Rocks. Parties wanting fine Houdans will make no mistake in buying this stock."

—Mrs. J. C. Cannon, of Crawfordville, Iowa, in furnishing copy for her advertisement, offering Mammoth Bronze turkeys for sale, found on this page, writes: "My turkeys this year are as nice as I ever raised; large, heavy-boned fellows, and very nicely marked. My old tom weighs forty-three pounds and scored ninety-six and three-fourths and was mated with the best hens I could get. To those sending orders soon I can furnish strictly first-class birds."

—Mr. B. F. Cook, of Council Bluffs, Iowa, is holding a closing-out sale of all of his poultry stock, as he intends to quit the business. He has Rose Comb Rhode Island Red and Single Comb White Leghorn cockerels, and English Ring-neck pheasants, on which he quotes prices, two hens and a cock for \$6. His cockerels, which would cost from \$5 to \$10 at regular prices, he is selling for \$2.50. His stock must be sold within the next thirty days. See this page.

—Mr. C. W. Phillips, breeder of Black Langshans, at New Sharon, Iowa, has a little announcement on this page which will be of interest to breeders of that breed of fowls. Mr. Phillips is offering cockerels for sale that are right up to the demands as to requirements from any point of view. Judge Russell has said that this was the best flock of the breed in Iowa. The records made by birds of the Phillips strain in the Iowa state and other poultry shows have been excellent proof of the truth of the statement. Mr. Phillips showed his birds at the Iowa state poultry show for six successive years and five out of the six times captured the highest honors. He bred the pen that won first at the Iowa State Fair last fall and his birds have been winners at other important shows. The high estimation in which the Phillips strain of Langshans is held will be shown from the fact that only last week an old customer came back and bought \$53 worth in one day, and they were not low-priced ones.

either. The range of prices on these cockerels is from \$2 to \$10 each, according to quality. Those who are interested should write their descriptions at once, as there is but a limited number of birds on hand. Address all correspondence to Mr. C. W. Phillips, New Sharon, Iowa.

THE QUEEN INCUBATOR.

The advertisement of the Queen incubator appears on page 32 of this paper. The Queen is an old friend and one which is gladly welcomed by every poultryman. The Queen incubators have given the best of satisfaction wherever they have been in use. They are sold at reasonable prices under as binding a guarantee as can be secured from any other factory, and are right in every way. The Queen Incubator Company have recently perfected an interesting and complete poultry guide and catalog which will be sent free to every reader of this paper who writes for it, addressing the request to the Queen Incubator Company, Box 10, Lincoln, Neb.

DOGS.

COLLIE PUPPIES From our imported studs and photos, giving full description. Hundreds of testimonials. Our Collies work; pairs no akin furnished; prices to suit. We ship to all parts of the United States and guarantee safe delivery. **UNDERHILL KENNELS, Knoxville, Iowa.**

COLLIES Two choice female pups, whelped Aug. 30th; one male July 25th, by Imp. Ormskirck Artist. A registered matron only \$10, half value; all sable and white. Pedigrees furnished. **H. J. ROMPE, SOMONAUK, ILLINOIS.**

SCOTCH COLLIE PUPPIES For sale. \$5 to \$8. Very best breeding; will make fine workers. Write us your wants. **T. A. Stevenson, Shannon City, Iowa.**

Scottish Terriers The woolly, greatest ratters. From puppies to grown dogs for sale. Pedigreed. **S. Harr, Riverside, Iowa.**

Scotch Collie Puppies sired by Rockdale Hall. Write for description and prices to Miss Victoria Saunders, Manilla, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS, Cumming, Iowa.**

LEGHORNS.

Rose Comb Brown LEGHORNS COCKERELS for sale at the Pike Timber Stock Farm as follows: Single bird \$2, two or more \$1.50 each, six for \$1 each. Address **T. A. DAVENPORT - BELMONT, IOWA.**

Scored S. C. B. Leghorn Cockerels, sired by first cockerel at Iowa State Show. Pens and trilos. Write for prices. **Orlando Jacobs - Mediapolis, Iowa.**

PURE-BRED Rose Comb Brown Leghorn ckls \$1.50 each or five or more at \$1 each. **Carey R. Jones, Route 6, Eldora, Iowa.**

NEW choice S. C. W. Leghorn ckls, scored and unscored. Unscored, \$1 each; scored, \$2 up. Wyck-off strain; eggs. **Mrs. W. McIntyre, Red Oak, Iowa.**

For Sale R. C. B. Leghorn cockerels; single birds, \$1.50 each; six for \$5. Write **F. Bowman, Route 6, Eldora, Iowa.**

ROSE COMB Brown Leghorn cockerels for sale, high-scoring, \$1.25 each. After January 15, 1910, \$1.50. Address **Eva D. Tutt, Alta, Iowa.**

WYANDOTTES.

WHITE WYANDOTTE Cockerels; fine, large white birds, with nice, yellow legs, raised on free range, \$1.25 and \$1.50 each. Extra fine ones at \$2 each. No more females for sale. **Roselawn Poultry Farm, Route 2, Keota, Iowa.**

I Have the Best White Wyandottes I ever raised, now ready for sale. \$10 trio a specialty. Quality stock. **J. M. Erickson, Sinter, Iowa.**

Wyandottes Silver Laced, either sex; Buff cocks, hens, ckls, and pullets; white cocks, hens, pullets. **Jos. Morris & Son, Montezuma, Iowa.**

Silver Laced Wyandottes Exclusively Scored or unscored. **Dr. D. C. Garner, Mingo, Ia.**

SILVER LACED WYANDOTTES Hens, roosters and pullets for sale cheap in lots. **Mrs. J. W. Lowe, Clarksville, Iowa.**

LANGSHANS

Phillips' Strain Langshans BLACK Langshan cockerels as good as ever, but not so many of them. Birds that will score high, and from a strain that has always produced blue ribbon winners. Prices low, considering quality. **C. W. PHILLIPS, NEW SHARON, IOWA.**

FOR SALE Black Langshan chickens. Write for particulars. Address **Mrs. E. F. La Rue, Hartington, Nebraska.**

Black Langshans; winners at State Fair and Monroe Show. Have some extra good show birds and utilities for sale. **R. McDuff, Monroe, Ia.**

BLACK Langshan ckls. for sale; scored and unscored birds; scores ranging from 92½ to 94½. Write for prices. **H. M. McKeen, Sac City, Iowa.**

ORPINGTONS.

SPLENDID S. C. B. Orp. ckls. for sale from best thoroughbred stock at \$2 each. Can furnish a few pullets at \$1.25 each. **Mrs. C. E. Couger, Bristow, Ia.**

S. C. Buff Orpingtons, both sexes; choice stock from \$1 up. Also a few good cocks. Address **Nettie Crane, Route 1, Blencoe, Iowa.**

For Sale Single Comb Buff Orpington cockerels, scored by Russell. Write for prices. **J. S. MARSHALL, MONROE, IOWA.**

COCHINS.

Buff Cochins Exclusively 50 large-framed, shapely, even-colored, well-feathered cockerels at \$2 to \$5. Write **W. W. Vaughn - Marion, Iowa.**

HOUDANS.

HOUDANS Hens, pullets, cocks and cockerels; forty quality birds for sale cheap; single, trio or pens. Must close out stock. **W. T. Wilkinson, Box 15, E. Des Moines, Ia.**

MINORCAS.

50 S. C. B. Minorca Cockerels; choice birds at \$1 to \$1.50 each. **Herman A. Wohlsdorf - Lawler, Iowa.**

PLYMOUTH ROCKS.

Barred Rocks for Sale

FROM \$2 to \$5 each, as to age and number ordered. Nothing but strictly choice birds will be shipped. **F. M. PHILLIPS, CENTERVILLE, IOWA.**

100 BRADLEY-BRED P. ROCK COCKERELS

THREE pens, all strongly bred, Bradley bred; one pullet mating and two cockerel matings. Ship none but the best. Address **MRS. L. C. REESE - PRESCOTT, IOWA.**

BARRED ROCKS

A CHOICE bunch of cockerels this year, sired by the best blood in the country. We can furnish you first-class breeders to improve your flock, or exhibition birds to head choice yards. Prices reasonable; write us your wants. **Mason C. Ogg, Monroe, Ia.**

Quality Strain Barred Rocks Have been line bred for ten years from foremost prize-winners in America. Bennett's famous flock has been added as per "Notice of Sale" elsewhere. Cocks, hens, cockerels and pullets, both matings for sale at right prices. **C. C. Drake & Son, Drawer V, La Harpe, Illinois.**

BARRED PLYMOUTH ROCK COCKERELS

100 GRAND Barred Plymouth Rock cockerels of large bone and fine style and plumage from prize-winning stock, scoring to 93½. Prices reasonable. **S. V. LATCHAM, Montezuma, Iowa.**

400 B. P. Rocks For Sale. Cocks, cockerels, hens and pullets. Prize-winners, egg producers; large, vigorous, nicely marked. None better, 15 years a breeder. Mated exhibition and breeding pens a specialty. Prices reasonable. Bargains for quick buyers. **C. H. Iyrell, Sioux Rapids, Iowa.**

B. P. Rock Cockerels---None Better

Ever raised on our farm. Pen birds \$2 each, 3 for \$5. Range \$1.50, four or more \$1.25 each. Address **Mrs. Hattie J. Jennings, Beaconsfield, Ia.**

GUTH'S WHITE ROCKS

Winners at the Iowa State Show. Choice cockerels at \$2 each. **Chas. Guth, E. 18th St. and Logan Ave., Des Moines, Ia.**

White Rock Cockerels, \$2 to \$5 Each

Pullets, \$1 to \$3. Maun's green bone cutter and 50-egg incubator cheap. **F. H. Eckert, Charter Oak, Ia.**

White Plymouth Cockerels; large-boned, pure white; both scored and unscored; birds scoring up to 94; unscored, \$1 each; others according to score. **Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.**

Barred Plymouth Rocks

Pekin ducks, White Holland turkeys; extra large, and first prize winners. **Fred Post, Moulton, Iowa.**

Barred Rock Cockerels Line bred, from cock and weight; fine barring; no brassiness. Ckls. bred from special mating. **C. A. Benson, Elkader, Iowa.**

Buff Plymouth Rocks Special 30-day sale of COCKERELS, BREEDERS and SHOW BIRDS. **C. & C. T. VAN LINT, PELLA, IOWA.**

White P. R. Hens and pullets for sale—one dollar each. Cockerels all sold. **Cora E. Berger, Harlan, Iowa.**

Buff and Barred Rocks 85 large, fine cockerels, extra heavy-boned, scoring 88 to 94½; farm raised. **E. C. Rice, Gray, Iowa.**

White Plymouth Rock ckls. from scored stock of Fishel strain at \$2, \$1.50 and \$1 each. **Mrs. E. C. Turner, R. 1, Griswold, Ia.**

75 Pure Bradley Cockerels for sale at \$1 and \$2. Large, heavy-boned birds. **W. E. RUFFCORN, DEFIANCE, IOWA.**

BARRED Plymouth ROCKS. Largest type, best breeding and marking. Thompson and Bradley strain. **Mrs. S. M. Thompson, Birmingham, Iowa.**

100 Barred Rock Cockerels \$1 each. Large size; good bone. **Earl Bloom - Bridgewater, Iowa.**

RHODE ISLAND REDS.

S. C. Rhode Island Reds

TOMPKINS STRAIN Write for descriptive circular. **P. H. Thiel, Renwick, Humboldt Co., Iowa.**

SEND STAMP FOR PRICES OF EGGS

FROM special matings and scored Single Comb Rhode Island Reds, from one of the best strains in the "Red" Kingdom. Imported Hartz Mountain canaries. A special offer to make. **Mrs. F. W. McIntyre, R. 5, Red Oak, Iowa.**

RHODE ISLAND REDS

Rose Comb Rhode Island Red cockerels for sale. Sire scored 92½ points. **WM. SEXSMITH, ORIENT, IOWA.**

R. C. R. I. Reds Cherry Red strain, scored and unscored. Cockerels for sale. Prices right. **Harry C. Blake, Maquoketa, Ia.**

S. C. Rhode Island Reds A choice lot of scored birds for sale; eggs in season. **Lee Nichols, R. 4, Woodward, Ia.**

Rose Comb Rhode Island Reds. A choice lot of cockerels scored by Todd, for sale. **D. E. Witmer - Polk City, Iowa.**

Single Comb Reds Scored cockerels, prices right as to quality; unscored \$1 each. **Frank Chalupa, Pleasant Plain, Iowa.**

S. C. R. I. Red Cockerels For Sale \$2 to \$5. **Mrs. H. L. Alsop, Sylvia, Iowa.**

S. C. R. I. REDS CHOICE Cockerels for sale at right prices. **C. A. Kenworthy, 1610 S. 9th St., Des Moines, Ia.**

TURKEYS.

White Holland Turkeys Best of breeding stock and choice young birds for sale. **Mrs. J. H. Richardson - Bristow, Iowa.**

DUCKS.

SALE OF PEKIN DUCKS Large size, \$1.75 each or 3 for \$5. **John M. Hall - Blairsburg, Iowa.**

BRAHMAS.

Light Brahma Cockerels

ONE to five dollars each. I have a fine lot of them; no pullets for sale. Eggs in season. Address **FRANK P. HEALY, BEDFORD, IOWA.**

Ottumwa POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. **R. T. Cameron, Ottumwa, Ia.**

LIGHT Brahmas exclusively. 75 large-boned, well-shaped Lt. Brahma ckls. at \$1.50 each; satisfaction guaranteed. **Mrs. Nellie Taylor, Box 83, Barnes City, Ia.**

MISCELLANEOUS.

COCKERELS AND PULLETS

FINE, large, early hatched breeders; farm range stock; Barred P. Rock, White P. Rock, Buff P. Rock and Single Comb Brown Leghorn. Circular free if you mention this paper. **C. E. MATTESON, Pewaukee, Wisconsin.**

S. L. WYANDOTTES

EMBDEN Geese, Bronze Turkeys, Pekin Ducks and Buff Cochins Bantams; better than ever, at bed-rock prices. **J. D. Smith, Montezuma, Ia.**

400 B. PLYMOUTH ROCKS FOR SALE

LARGE boned; nicely marked. A few fine M. B. turkeys; sire a first prize-winner in show in 5 showings, including Central Iowa Show, Dec. 3-16, 1909; Russell judge, won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths. Nothing but first-class stock shipped; prices reasonable. **J. W. Wagner, Monroe, Ia.**

EVERGREEN LAWN FARM

M. HUMMEL, Proprietor, Monroe, Iowa. HAS for sale 225 Barred P. Rocks and M. B. turkeys with large bone and deep barring, bred from high-scoring stock. We won 40 prizes. Write your wants; we can please you with quality and price. Nothing but first-class stock shipped.

WANTED TO BUY

THOROUGHbred Leghorns, White Orpingtons, Plymouth Rocks and many other varieties of pure-bred poultry. Give lowest price and full description in first letter. **Matthew Mertz, 907 West 15th Street, Des Moines, Iowa.**

MAMMOTH BRONZE TURKEYS

FIRST and third tom, first pullet, second hen, Iowa State Show, last week. These winners and lots of others for sale. **S. C. R. I. Red and B. P. Rock** cockerels hens and pullets. Trios and tens mated not akin. Satisfaction guaranteed. Address **E. H. Bodley, Box 29, Newton, Iowa.**

GEESE Mammoth Toulouse, imported or American strains. Ganders \$2.50; geese \$2; gander and two geese, not related, for \$5. White Wyandotte cockerels, scored and unscored, \$1.50 up; satisfaction guaranteed. **G. W. Livingston, Monroe, Ia.**

50 BREEDS Fine, pure-bred Chickens, Ducks, Geese and Turkeys. Send 4 cents for large new Catalog. **W. A. WEBER, Box 906 Mankato, Minn.**

BUFF COCHIN

B. P. Rock cockerels, and White Holland toms, sired by a 35 lb. tom, and Pekin ducks. For good birds at a low price address **Mrs. J. E. Baxter, Walnut Grove, Minn.**

Barred Rock Cockerels, \$1 to \$1.50, according to weight. **S. C. Brown Leghorn** cockerels and pullets, \$1 each. Scored males of both breeds, \$2. **Geo. F. Blake, Maquoketa, Iowa.**

150 Bradley & Thompson B. P. Rocks

Missouri King M. B. Turkeys; size and fancy markings; trios not akin. **H. Schlatter & Sons, Lawler, Ia.**

48 Breeds chickens, ducks, geese, turkeys. Fowls, eggs, and incubators at low prices. America's greatest poultry farm. Send 4c for fine 80-page 16th Annual Poultry Book. **R. F. Naubert, Box 807, Mankato, Minn.**

Quality Stock for Sale In S. C. Brown and White Leghorns, S. L. Wyandottes, Barred Rocks, Buff Cochins and Light Brahmas. **F. W. Johnson, Luther, Iowa.**

Full-Blood R. C. Rhode Island Red cockerels and S. C. White Leghorns \$2.50 each. English Ring Neck pheasants, two hens and a cock, \$6. Am closing out. **B. F. Cook, Council Bluffs, Iowa.**

For Sale—MAMMOTH BRONZE TURKEYS Large, heavy-boned birds, sired by tom weighing 43 pounds and scoring 96½. Also a few Pekin ducks. **Mrs. J. C. Cannon, Crawfordville, Iowa.**

50 Single Comb Brown Leghorn cockerels, \$1 each; good ones. Also B. P. R. cockerels, \$1 each. **C. A. Rasmussen, Harlan, Iowa.**

Truest Buff Turkey Toms, large and beautiful. Fine Muscovy ducks **Mrs. L. C. Demison, Arbela, Missouri.**

Barred Plymouth Rocks and Golden Wyandottes; 200 for sale. Get your order in early. **J. L. Todd, Route 3, Des Moines, Iowa.**

WHITE Wyandottes; stay white kind. Ckls. and pullets. Also a few B. P. Rock ckls, Eclipse strain. Prices right. **N. Woltersdorf, Van Horn, Ia.**

ROSE COMB Rhode Island Red, W. Orpington and S. L. Wyandotte ckls; heavy-boned and extra nice large birds. **P. F. Smith, Montezuma, Ia.**

Indian Runner Ducks and Barred Rocks, winners at Eldon and Bloomfield. **F. L. Reinhard & Son, Ottumwa, Iowa.**

ROSE and Single Comb Red cockerels, the kind that suit most particular people. Also fox terriers, king of the rat terriers. **Sabot Kennels, Pella, Iowa.**

Choice W. Wyandottes and Mammoth Pekin strain. **E. S. DIAS, BELLEVUE, IOWA.**

MAMMOTH Toulouse geese. McClaves strain ganders, geese, Indian Runner ducks; Sawyer Byers strain trained fox hound. **Paul Sels, Pella, Ia.**

Muscovy Ducks \$3 a pair; Rouen ducks, \$2.50 a pair. White Wyandotte ckls, \$1.25 each. **Mrs. T. W. Glass, R. 5, Sac City, Iowa.**

BARGAINS now in all leading varieties of Rhode Island Reds, Orpingtons, Leghorns, Wyandottes and Rocks. **Wm. Koell & Co., Box M, Hampton, Ia.**

BLACK and W. Langshans, BuffOrp's, R. C. R. I. Reds, Lt. Brahmas, M. B. turkeys, scored or unscored. Prices right. **Mrs. S. E. Newell, R. 6, Audubon, Ia.**

FOR SALE—Some extra fine pure-bred Rose Comb Brown Leghorn and W. Wyandotte cockerels. Write for prices. **LeRoy Cottew, Alta, Iowa.**

WHITE P. ROCK chickens, White Holland turkeys, Pekin ducks and Embden geese. Prices right. **S. M. Compton, R. 3, Newton, Iowa.**

Choice Silver Laced Wyandottes and Pekin ducks; scored; unscored. Prices right. **Mrs. F. R. McLaughlin, Manning, Ia.**

Marlin



12 Gauge Repeating Shotgun

The 12 gauge *Marlin* repeater is a gun of perfect proportions, and has one-third less parts than any other repeater. It handles quickly, works smoothly and shoots close and hard.

The *Marlin* solid top prevents powder and gases blowing back; the side ejection of shells allows instant repeat shots; the closed-in breechbolt keeps out all rain, snow and sleet, and the dirt, leaves, twigs and sand that clog up other repeaters.

All 12-gauge *Marlin* repeaters have double extractors that pull any shell, and the automatic recoil hangfire safety lock makes them the safest breech-loading guns built.

THE SIGN OF A
Marlin 12 gauge repeaters in three distinct models, many grades and styles, fully described in our 136-page catalog. Free for 3 stamps postage.

The Marlin Firearms Co.,
135 Willow Street, NEW HAVEN, CONN.

"SAVE THE HORSE" SPAVIN CURE.

REG. TRADE MARK



The most perfect and superior remedy or method known, with greater power to penetrate, absorb and cure than anything discovered in veterinary medical science or practice. Besides being the most humane, "Save the Horse" is the most unflinching of all known methods. It is effective without fevering up the leg, making a blister, or leaving a particle of after effect.

Armstrong, Mo. — Enclosed \$5. Please send me bottle of "Save the Horse." I used your medicine on three different cases with the results hoped for. I gladly recommend it. Ship at once and oblige. Yours truly, GEORGE W. LENOIR, Route 2.

Allen, B. C. — Last year, with one-half bottle only of "Save the Horse" Spavin Cure, a customer of mine treated a spavined tendon of four years' standing—the horse had practically become useless. Many other remedies had been applied without results. "Save the Horse" effected a complete cure.

Yours truly, C. R. BOURNE, Drugs and Stationery.

\$5.00 a bottle, with signed guarantee or contract. Send for copy, booklet and letters from business men and trainers on every kind of case. Permanently cures Spavin, Thoroughpin, Ringbone (except low), Carb, Splint, Capped Hock, Windpuff, Shoe Boil, Injured Tendons & all Lameness. No scar or loss of hair. Horse works as usual. Dealers or Exp. paid. TROY CHEMICAL CO., 3 Commercial Ave., Binghamton, N.Y.

THICK, SWOLLEN GLANDS

that make a horse Wheeze, Roar, have Thick Wind, or Choke-down, can be removed with

ABSORBINE

or any Bunch or Swelling. No blister, no hair gone, and horse kept at work. \$2.00 per bottle, delivered. Book 3 D free.

ABSORBINE, JR., for manking, \$1.00, delivered. Redness Goutre, Tumors, Wens, Varicose Veins, Ulcers, Hydrocele, Varicocele. Book free. Made only by W. F. YOUNG, P. D. F., 37 Temple St., Springfield, Mass.



Death to Heaves Guaranteed

Or Money Refunded.

NEWTON'S Heave, Cough and Distemper Cure. \$1.00 per can at dealers, or express paid. 18 years' sale. Send for booklet, Horse Troubles.

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With rig in every county to introduce and sell family and veterinary remedies, extracts, etc. Fine pay. We mean business. We want salesmen in all states. Write us. **SHORES FARM REMEDY CO.,** TRIPOLI, IOWA.


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A. S. ALEXANDER, V. S.
MADISON, WIS.
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail, \$1.00.



VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

LAMENESS.

I have a buckskin colored mare, twelve years old, that is lame in the left front foot. She has had a side bone, but it was blistered and killed. There is a bunch in front of frog and center of foot is fuller than outside. Hoof is very dry and hard. She has been lame about eight months. She cannot go at all without shoes.

The convexity of the sole suggests a dropped sole from founder which in some comparatively rare cases affects one foot only. Better put on a tar and oakum dressing, a thick leather sole and a flat-bar shoe. Then clip the hair from the hoof head and blister repeatedly with cerate of cantharides at intervals of three or four weeks until she can go sound or much better than before. There is no cure for dropped sole, but affected horses, shod and treated as we have suggested, may do work on soft land.

OBSTINATE WOUND.

I have a bay mare six years old that got cut on wire the last of July, 1909, on left hind leg just under fetlock joint. The wound will not heal over, although I have taken the best of care of her and have used several different kinds of salve and also dry powders. I have tried bandaging the sore and also leaving it open to exposure, and yet it will not heal, but remains raw. The flesh puffs out; I had it cut off once, but still it puffs, although there is no proud flesh. The fetlock joint is swollen some, but it has never made her lame. The mare dropped a mule colt a couple of weeks after she was cut on wire and the colt has done well. The mare eats good at all times. I feed her good light prairie hay and corn and she feeds on blue grass pasture. Any information you can give me will be appreciated.

Cleanse the wound, then dress with a mixture of equal parts of tannic acid, calomel and boric acid, and put on cotton batting and bandage. The bandage should be put on so as to bring firm pressure on the wound and to this end it may be necessary to bind in a roll of cotton batting or oakum above the dressing. Renew the dressing once daily.

ABSCESS.

I have a horse ten years old that got cut with wire on the right hind leg in the hock joint about two years ago. I healed it with cactus oil and in about six months it swelled and broke and then healed again and has kept swelling and breaking about every three months since. He stays in good flesh, but will get lame a part of the time. Can you tell me what to do?

Clip off the hair and cleanse the hock joint thoroughly. When dry blister it by rubbing in cerate of cantharides for fifteen minutes and tie horse so he cannot rub or bite part. Wash blister off in forty-eight hours and then apply a little lard daily. If the pus breaks out again inject once daily a little of a mixture of a dram of iodoform in an ounce of sulphuric ether. When discharge ceases, blister the joint again. Such cases usually are stubborn and even incurable so that we cannot guarantee results of the treatment suggested. It would be best, if possible, to have the case attended to by a local, graduate veterinarian.

WORMS.

I have seven small shoats that are not doing well. I feed them about a peck and a half of corn twice daily, but they do not clean it up; they also get about one gallon each of bran and shorts, in slop, twice daily. I also feed oil meal three days every week. They cough some and do a lot of rooting when the ground is not frozen. They do not seem to be sick, as they are roaming around the pen a good deal through the day. I sometimes think they have worms working on them, but never saw them pass any. They are eight months old and do not weigh 200 pounds. They have been in this condition nearly three months. Can you tell me why they do not make any headway?

Worms certainly are to be suspected, but it may also be that the pigs are too much confined and getting too much rich food. Stop feeding corn and flaxseed meal. Substitute slop of milk, middlings, oatmeal bran and a very little corn meal. Mix limewater freely in this slop once daily at the rate of an ounce to the pint. For worms give turpentine in slop, in place of the limewater, for three successive mornings at the rate of one teaspoonful for each eighty pounds of live weight. Repeat the following week. After they are doing well digester tankage may be added to the slop to

The Endorsement of Other Farmers Should Guide You

DON'T buy any implement till you know its record. Don't let the manufacturer experiment on you. Avery Machines are world-famous and have been in successful use for 30 years. Read what Mr. M. S. Van Bount of Urbana, Illinois, writes in his letter to us, dated October 23, 1909.

"I have used an Avery Perfection Planter three seasons, it being the first one in this section. It is very satisfactory, being light draft, good check and well balanced. Double disc markers are just the thing."

That letter and hundreds of others just like it, has put the farmer's seal of approval on Avery Machines. We illustrate here the machines endorsed by all who have used them.

AVERY PERFECTION PLANTER

AVERY UNIVERSAL CULTIVATOR

Here's a letter from C. K. McClelland, Supt. Ft. Hays Experimental Station, Ft. Hays, Kansas, dated July 30, 1909, about the Avery Universal Cultivator.

"I want to tell you what a pleasant it has been to observe the splendid work of the Universal Cultivator at our station. The new features you have introduced into this successful riding cultivator make it about the best machine of that nature on the station. The man who has been operating it says your claims cannot be disputed. The cultivator is so well balanced, its mechanism so simple of arrangement, and the feature of taking the weight off the horses, making its working a satisfaction to the operator. The simple, handy levers for regulating the depth, and depth-governing springs are the best ever seen."

The Avery Perfection Planter insures a more uniform depth, because short-coupled. A more uniform drop because new automatic side cut-off plants the big grains. Less work for operator because planter has automatic self-lift and two markers. Less work for team because lighter draft.

The Avery Universal Cultivator has such splendid features as adjustable arch, balance levers, accurate depth regulators with cushion springs. All this in addition to the features which years ago made Avery Cultivators famous, including double-acting light springs, rod fenders, special shaped shovels. Avery has the reputation of "Going In," easy handling and long service.

WRITE FOR FREE BOOK

on a Postal—and know what other farmers and Experiment Stations think of Avery Machines. Don't buy till you get our book. It is worth high money to you, but we will gladly send it free and postpaid. Write postal or letter now to

AVERY CO., 169 Iowa Street, PEORIA, ILL.
Makers of Corn Growing, Steam Plowing and Threshing Machinery.



Don't Bury Your Profits

You are not getting the profits your work deserves when your hogs have worms. Worms take the nourishment out of the hogs' food that should go to make pork. They irritate the hogs' digestive organs and in short time work their way into the liver and kidneys. Your hog starves to death and your investment, as well as your profit, is wiped out. It's time for you to wake up and put a stop to these unnecessary losses in your herd. Feed your hogs

Iowa Worm Powder

It will rid your herd of these life destroying, profit stealing pests. It kills and expels the worms and leaves the hogs' stomach and intestines in condition to perform their natural functions. You know that animals cannot make gains when their digestion is impaired. Iowa Worm Powder is a sure worm killer.

Don't Raise Runts. Pigs should have a feed of Iowa Worm Powder by the time they are 5 weeks old. Worms will accumulate in very young pigs stunting their growth and cutting down your profits. Iowa Worm Powder is just as good for your horses and sheep as it is for your hogs. They all are more or less infested with worms.



IOWA STOCK FOOD CO.,
Dept. A
Jefferson, Iowa.



SCARLESS LINIMENT

THE HEALING OIL WITHOUT AN EQUAL FOR ALL SORES, CUTS, BURNS, BRUISES, SPRAINS, ETC., ON MAN OR BEAST. AT YOUR DRUGGIST, or we will send a 25c trial size on receipt of your druggist's name and 10c to cover postage and mailing case.

Scarless Remedy Co., Winterset, Iowa.



form 10 per cent of the food. Allow free range out of doors.

THIN HORSES.

(1) I have a three-year-old colt that is not doing well, gets four quarts of oats twice a day and oat straw, runs out when the weather permits, his hide is not bound, digests well, appetite good. I had him castrated a year ago which proved him to be a ridgling. He got very sick after the operation, seemed to be sick for three weeks. His coat is very rough and heavy and he is very tall and slim for his age. (2) I also have a driving mare that is getting five quarts of oats twice a day and good oat straw. She eats very little straw and does not drink over three or three and a half gallons of water a day. She is very lanky and stays thin, is middle aged. She gets salt once a week. I would like to see her eat and drink more and fatten.

Instead of feeding oat straw alone, add good hay and corn fodder. Feed in place of oats straight a mixture of oats ten parts, corn five parts and bran three parts. Carrots would be useful if they can be given, or a little well-made silage fed once daily will prove beneficial. If neither succulent food can be given add flax seed meal to the ration once daily. Let both run out of doors every day for exercise. If worms are seen in the ma-

nure or there is a fur of scaly substance about the anus, treat for worms, as so often advised in these columns.

RICKETS.

What is wrong with my pigs? They get lame in their hind legs, mostly in the right, and one seems to be paralyzed in the back. They are on a ration of corn and water.

Stop feeding corn. Turn the pigs out for free exercise and feed mixed rations, including middlings, bran, oat meal and digester tankage. Give lime-water freely with the food every day. The trouble is rickets and is induced by incomplete rations, pampering and lack of exercise.

THE ONLY WAY TO BUY A FARM.

Buying land for a home without knowing all about it is blind and foolish speculation. Settlers or homeseekers should go down and investigate conditions for themselves before buying. The Western Louisiana Settlement, at Pickering, now developing, situated along the Kansas City Southern Railway, has issued an illustrated booklet, free on application by any one interested in that coming country, having plenty of rainfall, with healthful and pleasant climate, where good farming and the best fruit and truck land in this country can be had for \$10 an acre, on easy terms. Address J. D. LaBrie, General Land Agent, 539 Keith & Perry Building, Kansas City, Mo.

OUR SHEEP DEPARTMENT

THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

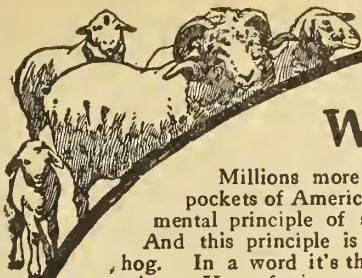
Meeting of Iowa Sheep Breeders' and Wool Growers' Association.

Fully one hundred farmers and breeders of sheep were in attendance at the annual meeting of the Iowa Sheep Breeders' and Wool Growers' Association, held at Ottumwa, Iowa, December 23d, of which thirty-three new members joined the association.

The session began with a paper from Mr. E. S. Owing, of Philadelphia, Pa., one of the largest wool commission firms. This paper dealt with the grade of wool in Iowa compared with other states. He pointed out the best manner of preparing and tying the fleece and referred especially to the importance of tying fleeces with a special wool twine. Wool tied with binder twine is practically worthless. He also stated that the wool merchants this coming season would demand that all wool from the growers be free from foreign matter or only take the grades at their proper value. He urged the breeders to get better sheep and raise the quality of their wool. Following the paper Professor Rail, of Lincoln, Neb., spoke on the subject of "Production of Pure-bred Sheep." In the opening he told how mankind had been dependent upon sheep for clothing and meat before the birth of Christ. He showed how this has increased yearly until it is one of the most profitable lines of animal husbandry. People are consuming more mutton than ever before, was the statement of Professor Rail, and with this increased consumption a knowledge of the various grades of mutton must be had by the sheep breeder. He referred to the increasing demand for pure-bred sheep, both males and females. The address was interesting throughout and eagerly listened to by all the sheep breeders present.

Following this a paper was read by G. W. France, of Oskaloosa, on "Care and Management of Large and Small Flocks." Mr. France is of the belief that about 100 sheep, of mutton type, and 200 of the Delaines are as many as should be kept in one flock. Rolling land is much preferred for the sheep pasture, as the grasses are more nutritious. Good, clean water in troughs he emphasized as being of the utmost importance. Good shelter and a variety of feed was advised. In shearing the fleece nothing but the good, clean wool should be tied up. A spirited discussion followed the reading of Mr. France's paper on the prevention and cure of worm trouble in sheep. The various worm powders which are advertised were discussed. Opinions favorable and other unfavorable were expressed. A very simple and effective remedy was given with many good testimonials. The receipt is: For a badly diseased flock use one gallon of salt, two gallons of wood ashes and a quart of air slacked lime. Put in a box and keep before the sheep all the time, as a preventive use less ashes and lime.

Prof. W. J. Kennedy, vice-director of the Iowa Experiment Station, delivered an address on "Breeding and Exhibiting Sheep." In this address the most suitable breed and the best size flock to select was brought out, the best breed being the one most adapted to the locality and the particular farm where the flock is to be kept. This is where the majority of our American people do not pay enough attention. The foundation flock should be from our best breeders and with the selection of high-class rams, of proper breed type, a flock may be produced of the best quality. In the discussion that followed Mr. Samuel Rail, of Birmingham, Iowa, reported that in the spring of 1907 he had 145 sheep and sold during that year \$1,015 of mutton and wool, had 102 sheep left, having sold all but twenty-eight head of registered breeding ewes. The year 1908 he sold \$600 worth of wool and mutton and had 101 sheep left. Mr. W. S. Merritt, of Seymour, Iowa, had 135 ewes and raised 145 lambs which he sold on the Chicago market at seventy pounds for \$7.15 per hundredweight,



There's a Right Way to Feed Stock

Millions more of good dollars would lie snugly in the pockets of American farmers and stock feeders, if the fundamental principle of successful feeding were better understood. And this principle is the same for sheep, cow, steer, horse or hog. In a word it's this—*keep the digestive function healthy and active.* Your fattening steer, growing sheep or milking cow, must consume large daily rations of rich foods, or they will not produce more than nature requires for maintenance. And—if the digestive organs are not strong, this heavy feeding will result in impaired appetite, stomach derangement and loss. To obviate this danger, Dr. Hess (M. D., D. V. S.) offers an unfailing preventive—

DR HESS STOCK FOOD

Not a food ration, but a tonic, which acts upon the digestive organs, and not only keeps them at healthy, normal activity, but gives added power, so that a feeder may steadily increase the mess up to the capacity of the animal. This is "The Dr. Hess Idea" of feeding, and to follow it on the farm means more milk from the cows; bigger, fatter steers; thrifty, growing sheep; vigorous, handsome horses, and fat, sweet, wholesome pork. Dr. Hess Stock Food is sold on a written guarantee. The dose is small and twice a day is often enough to give it.

100 lbs. \$5.00; 25 lb. pail, \$1.60. Except in Canada and extreme West and South. DR. HESS & CLARK, Ashland, Ohio.

Also manufacturers of Dr. Hess Poultry Pan-a-ce-a and Instant Louse Killer. FREE from the 1st to the 10th of each month—Dr. Hess (M.D., D.V.S.) will prescribe for your ailing animals. You can have his 96-page Veterinary Book any time by asking. Send 2c stamp and mention this paper.

DR. HESS POULTRY PAN-A-CE-A does away with the doubtful side of poultry keeping, and makes it a positively successful venture for the man or woman who uses it. Poultry Pan-a-ce-a aids digestion, promotes assimilation, makes pure blood and good health. Fed in small portions once a day in soft feed as Dr. Hess directs, it increases egg production as no other known preparation will. It is not a condiment but a tonic, and is as beneficial to growing chicks as to laying hens. It helps through the moulting period and fatten old fowls in a short time. It cures Gapes, Cholera, Roup, etc. A penny's worth feeds 30 fowls one day. Sold on a written guarantee.

1 1/2 lbs. 25c; mail or express 40c. 5 lbs. 60c; 12 lbs. \$1.25; 25 lb. pail \$2.50.

Except in Canada and extreme West and South. Send 2 cents for Dr. Hess 48-page Poultry Book, free.

INSTANT LOUSE KILLER KILLS LICE

bringing the nice sum of \$725 and the wool. Mr. Merritt is a strong advocate of a law that dogs should be confined at night, and favors a large bounty on wolves. He believes that a bounty of \$25 each should be paid to eradicate the pests, so the sheep may be left in the fields and fertilize our land. Legislation along these lines will be urged at the next meeting which will be held in the Commercial Clubrooms, Ottumwa, Iowa, in December, 1910.

Next was a paper on the "Selection of the Breeding Ram," by V. G. Warner, secretary of the association, in which breed, type, size and constitution were dealt with. After the reading of this paper the hornless Merino ram was discussed by Messrs. Ellis Rail, V. G. Warner, and Prof. W. J. Kennedy.

The election of officers for the coming year were: President, C. W. Moore, Cedar, Iowa; first vice-president, A. J. Blakely, Grinnell, Iowa; second vice-president, S. H. Lamis, Eddyville, Iowa; third vice-president, Elias Heck-

REGISTERED OXFORD EWES for sale; bred to a choice ram. Address C. S. DARLING - - LYTTON, IOWA.

40 Grand, young, bred, reg. Shrop. ewes, priced to sell. Can ship from Cedar Rapids. B. P. R. cockerels, \$1 each. J. L. Plumly, Robins, Iowa.

art, Douds Leando, Iowa; secretary, V. G. Warner, Bloomfield, Iowa; treasurer, G. W. France, Oskaloosa, Iowa.

ZILLER, THE FARMER SEEDSMAN.

The 1910 catalog of Mr. John D. Ziller, of Hiawatha, Kan., the farmer seed corn grower and prize winner, is one of the finest issued this season. It is not only artistic, but replete with valuable information regarding pure-bred seed and how to raise good crops every year. Notwithstanding the unfavorable conditions last year, Mr. Ziller produced as fine seed corn as was ever put in the ground and, as choice seed is very scarce, orders should be placed with Mr. Ziller as soon as possible. He will send you nothing but the choicest of seeds, and when these are exhausted he will return the money and orders. The handsome catalog will be sent free to all who request it, but parties wanting samples must enclose a two-cent stamp to pay postage on same. If you have not ordered your seed corn, consult Mr. Ziller's advertisement on page 27 and send in your orders at once, and in doing so kindly mention this paper.

SHEEP.



SHROPSHIRE EWES

YOUNG, registered, exceptional size, extreme type. Bred to English stud rams, champions both continents. Obtaining such ewes would mean your success. Won champion ewe any age, champion Shropshire flock, Chicago International, 1909. America's best flocks have been founded with our ewes. Near Des Moines.

CHANDLER BROS., Charlton, Iowa. Shrewsbury, England.

IOWA'S PIONEER BREEDERS AND IMPORTERS OF SHROPSHIRE SHEEP

CHOICE IMPORTED and home-bred registered ewes. Bred to imported rams of the best quality; also rams. Prices reasonable, considering quality.

Daniel Leonard & Sons, Corning, Iowa.

Ewes for Sale

THE IOWA STATE COLLEGE is offering for sale 50 head of pure-bred and grade ewes, mostly Shropshires, at very reasonable prices. Address

DEPARTMENT OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

25--SHROPSHIRE RAMS--25

SPLENDID lot of yearling rams by Imp. Minister, S. A. Minton-bred ram out of descendants of imported ewes. Priced to move.

T. A. DAVENPORT, BELMONT, IOWA.

Pine Ridge Shropshires One thousand ewes bred to the very best imported rams money could buy. These rams are prize-winners, personally selected from the best English flocks last July. Prices reasonable. Write for free booklet, "Hints on Sheep Raising." Address owner, L. M. Hartley, Pine Ridge Farm, Salem, In.

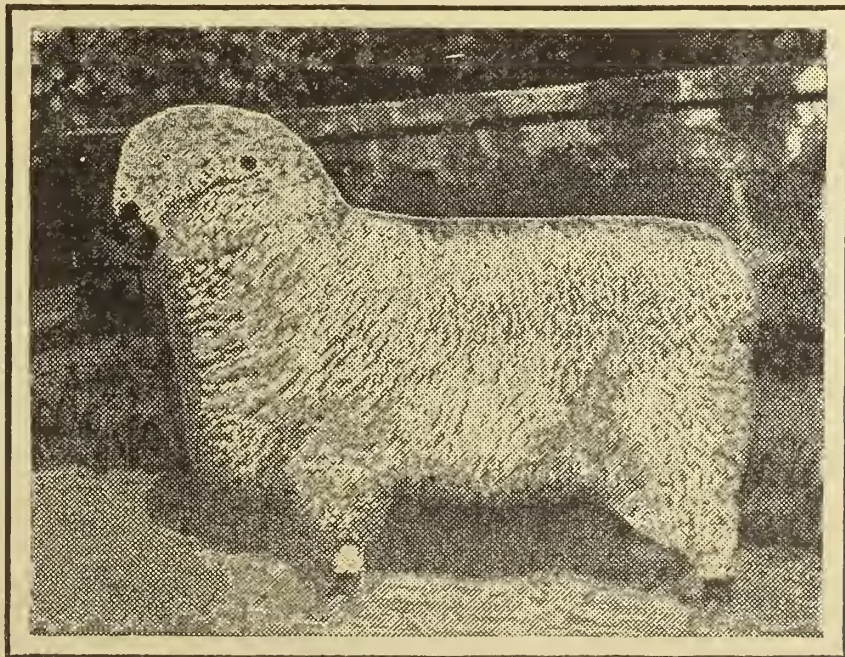
FIFTY SHROPSHIRE EWES

MOSTLY two years old. We wish to sell to make room for more of different breeding, in order to hold our ram trade in this locality. Who can use the bunch at a great discount? Will sell any number. D. M. Norton, Sauthorn, Iowa.

HOME OF THE OXFORD DOWNS. Flock in its forty-eighth year, and finds the Oxford to be the money makers in the sheep family. Both sexes for sale. T. B. Evans, Geneva, Illinois.

Registered Shropshire Rams and Ewes For Sale. The best of breeding and quality. Best imported rams at head of flock. Willard Miller, Anita, Iowa.

CLOSING OUT SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. W. C. Frazier, Atlantic, Cass Co., Iowa.



THE GUTHRIE PUBLIC SALE.

The illustration given herewith represents the imported Shropshire ram, Clover Hill's 396 (08008 R). This is a big, well-formed, nice looking and stands at the head of the flock of Mr. A. T. Guthrie, of Newton, Iowa. He is the sire of perhaps half of the ewes that have been consigned to Mr. Guthrie's sale of January 20th, as announced on page 53. A large proportion of the others have been bred to him, which makes him an important factor in the sale. The ewes in this sale were inspected by a representative of The Homestead last week and were found to be a strictly first-class lot, not fat, but well formed, in fair condition, and with all the better markings of a good Shropshire. For catalogs giving further details of this sale write to Mr. A. T. Guthrie, Newton, Iowa.

THE LOWREY-MORAN PERCHERON SALE.

Fifty head of imported Percheron mares and stallions were sold by Messrs. H. O. Lowrey and John Moran, of Nevada, Iowa, in the live stock pavilion at the Iowa State Fair Grounds on Tuesday, December 28th. The general average of \$465 on the entire offering does not convey the full value of the lots sold. The extreme cold weather no doubt kept many from being present at the sale. Mr. Henry Rolph, of Nevada, Iowa, topped the sale, securing the splendid two-year-old stallion, Huis (73997) 43151, at the bargain price of \$1,375. It is seldom that a stallion of such merit is exposed at public sale and Mr. Rolph is to be congratulated on his purchase. Mr. J. G. Scott, of Cambridge, Iowa, secured the three-year-old stallion, Garant (70610) 42820, at \$950. Mr. E. W. Simmott, of Osceola, Iowa, was the buyer of the splendid two-year-old stallion, Hambard (76252) 42837, at the bargain price of \$755. The mares of breeding age showed heavy in foal and many snaps were to be had. Mr. Dennis Dodd, of Collins, Iowa, topped the sale of mares in buying the two-year-old, Hienie (78063) 43157, at \$745, and was a liberal buyer and bidder of the better sorts. Other buyers were Messrs. E. R. Silliman, Colo, Iowa; S. E. Shugart, Council Bluffs, Iowa; C. T. Spicer, Smithshire, Ill.; C. B. Dannen, Melbourne, Iowa; P. W. Moir, Orange City, Iowa; Chas. Quirn, Marcus, Iowa; F. E. Fricke, State Center, Iowa, and A. F. Borwald, West Point, Iowa. Col. Griff Johnson did the selling in a highly satisfactory manner and was ably assisted by Colonel Donhowe. A list of sales follows:

MARES.	
Herbette, three years, Bibi, Dennis	
Dodd, Collins, Iowa.....	\$ 680
Idalgo, two years, Beauchene, Sheehan Bros., Stuart, Iowa.....	515
Haltere, three years, Paulus, G. H. Dannen, Melbourne, Iowa.....	555
Hellier, three years, Galopin, C. B. Dannen, Melbourne, Iowa.....	515
Hache, three years, Mulot, E. R. Silliman, Colo, Iowa.....	525
Homclie, three years, Besigue, S. E. Shugart, Council Bluffs, Iowa.....	575
Hudie, three years, Coco, E. R. Silliman.....	600
Haoussa, three years, Bibi, Dennis Dodd.....	580
Houlette, three years, Alger, C. M. Dannen, Melbourne, Iowa.....	405
Histoire, three years, Coco, E. R. Silliman.....	505
Guichette, four years, Amant, C. T. Spicer, Smithshire, Ill.....	700
Hotelliere, three years, Paulus, C. T. Spicer.....	640
Hermine, three years, Bibi, C. B. Dannen.....	515
Hachette, three years, Sesigue, S. E. Shugart.....	740
Huchette, three years, Figaro, I. H. Lafferty, Indianola, Iowa.....	565
Hernie, three years, Bibi, Dennis Dodd	745
Habile, three years, Vatel, E. R. Silliman.....	700
Coquette, five years, Talbot, A. F. Doorward, West Point, Iowa.....	300
Infatigable, two years, Fricteur, P. W. Moir, Orange City, Iowa.....	325
Italic, two years, same.....	400
Isterie, two years, Taupier, C. B. Dannen.....	300
Insensee, two years, Medaillon, Chas. Quirn, Marcus, Iowa.....	510
Herienne, two years, Menot, F. E. Fricke, State Center, Iowa.....	310
Insance, two years, Taupier, Chas. Quirn.....	320
Isabelle, two years, Canrobert, F. A. Sayler, Valley Junction, Iowa.....	550
Illegale, two years, Coco, C. B. Dannen	335
Isolec, two years, Villers, Chas. Quirn	510
Illade, two years, Taupier, C. B. Dannen.....	300
Illiers, two years, Villers, H. A. Michael, State Center, Iowa.....	310
Instruite, two years, Alger, A. F. Borwald, West Point, Iowa.....	285
Leona, two years, Monarch, C. B. Dannen.....	275
Ioue, two years, Taupier, Royce Ho-	
man, Colo, Iowa.....	310
Indomptable, two years, Salvator, Chas. Quirn.....	300
Isma, two years, Brule H. L. same.....	350
Chillon, two years, Voltaire, L. L. Houghton, Montour, Iowa.....	265
Irma, two years, Coco, C. P. Dannen	360
Introductive, two years, Coco, P. W. Moir.....	370
Italie, two years, Villers, J. K. Eshel-	
man, Altoona, Iowa.....	325
Ivette, two years, Olivier, S. E. Shugart.....	300
Ida, two years, Cupidon, S. E. Morton, Des Moines, Iowa.....	335
Intrepide, two years, Paulus, G. A. Kelson, Paton, Iowa.....	315
Irene, two years, Coco, S. J. McKee, Stuart, Iowa.....	325
Indienne, two years, Oscar, Chas. Quirn	280
Indiatante, two years, Coco, F. E. Fricke.....	340
Carnation, two years, Iams' Plunger, J. K. Eshelman.....	400
Grivette, two years, Monarch, E. W. Simmott.....	300
Grimpette, four years, Polidor, J. Dauskin, Colo, Iowa.....	720
Lorette, two years, Spokane, K. A. Wilson, Des Moines, Iowa.....	275
Collett, two years, Jupiter, C. P. Dannen.....	300
Momence, two years, Jupiter, L. L. Houghton.....	335
Madeline, one year, Chambord, C. B. Dannen.....	265
STALLIONS.	
Hambard, three years, Cesarewicht, E. W. Simmott.....	755
Garant, four years, Amant, J. G. Scott, Cambridge, Iowa.....	950
Horizon, three years, Coquet, M. L.	

“ROCKFORD” Engines

ALL STYLES FROM 3-TO 30-H.-P.

Before you contract or buy a gasoline engine, write for the “ROCKFORD” Proposition and free catalog.

Address Dept. 47

Rockford Engine Works

Rockford, Illinois

LANDS AND HOMES FOR SALE

BE A FARM OWNER—DON'T RENT

\$1,000.00 DOWN BUYS THIS FARM

Quarter section, improved farm, ready to move onto in the spring of 1910. Located four miles from Ashby and four miles from Elbow Lake, the county seat of Grant County, Minnesota, in the heart of Park Region. 150 acres under cultivation, 10 pasture and hay land; 80 acres fenced.

Buildings, six-room house, stone cellar and cistern; barn 16x30, granary 16x20, sixteen-foot posts; hog house 12x20, chicken house 16x20. Buildings cost over \$2,500. Two good wells, 24 apple trees, two-acre lake thirty feet north of barn.

Will sell for \$8,000; \$1,000 down, balance \$500 per year at 6% interest.

WHELOCK & WHELOCK, 25 WALDORF BLOCK, FARGO, NORTH DAKOTA.

WHAT'S THE MATTER WITH KANSAS?

F. D. Coburn, Secretary of Agriculture, says:—"This year (1909) Kansas produced in farm products and live stock, over 532 Million dollars' worth. The U. S. Government report (December 10th) estimates that Kansas will raise 112 Million bushels of wheat in 1910. This is 30 Million bushels more than the highest estimate of any other state in the Union.

We have nearly 100,000 acres in Hamilton and Greeley counties in the wheat, alfalfa and broom corn belt of Kansas, that we are selling from \$10 to \$17.50 per acre in tracts of 160 acres and up, on five years' time. Our land is near Syracuse, Kansas—only one night's ride from Kansas City—six hours from Wichita. Write us for particulars.

JACKSON REALTY COMPANY (owners), 113 Gibraltar Building, KANSAS CITY, MO.

WESTERN CANADA

Senator Dolliver, of Iowa, says:—"The stream of emigrants from the United States to Canada will continue."

Senator Dolliver recently paid a visit to Western Canada, and says: "There is a land hunger in the hearts of English speaking people; this will account for the removal of so many Iowa farmers to Canada. Our people are pleased with its government and the excellent administration of law, and they are coming to us in tens of thousands, and they are still coming."

Iowa contributed largely to the 70,000 American farmers who made Canada their home during 1909. Field crop returns alone during year added to the wealth of the country close to \$170,000,000.00

Grain raising, mixed farming, cattle growing and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts; 160 acres pre-emption at \$5.00 per acre within certain areas. Schools and churches in every settlement, climate unexcelled, soil the richest, wood, water and building lumber plentiful.

For particulars as to location, low settlers' railway rates and descriptive illustrated pamphlet, "Last Best West," and other information, write to Supt of Immigration, Ottawa, Can., or to Canadian Gov't Act.

W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.

IOWA CORN FARMS

We have over 500 improved Iowa farms for sale at prices ranging from \$30 to \$150 per acre. We are pioneers in selling Iowa farms. Our large colored book of Iowa Farms and map of Iowa and the United States, free to you for the asking. Write or call and see us. We are on the Ground Floor.

A. B. SHRIVER, Manhattan Building, 313 5th St., DES MOINES, IOWA.

LAND OPENING!

The beautiful Jaritas Valley in New Mexico is opening for settlement.

4,000 acres of fine, smooth, IRRIGATED land; every acre within four miles of El Paso & Southwestern Railway. Deep, loamy soil; abundant water; fine climate; reasonable price; easy terms. Water for 1910 crop.

The Jaritas Valley lies close to the Colorado and Oklahoma State lines.

Write today for FREE particulars, map, rates, etc., to

THE JARITAS VALLEY LAND BOARD,

Midland Building, Kansas City, Mo.

FOR SALE

A SECTION of Virgin land in one of the finest valleys in Central Montana. All fenced; free from stone and the whole section can be cultivated. First class irrigation water right. Three fine springs about the center of the section. Two miles from railroad and town of about 500 population. Good school and churches. Fine chance for good farmer. For particulars address "D," care of this paper

IOWA FARMS

OUR 1909 new illustrated catalog of improved farms in Iowa and other states is ready. Be sure to send for it if you want to buy or exchange for land. Also have some good income and other property for sale and exchange.

NORTHERN IOWA LAND COMPANY,

Independence, Iowa.

HOMESEEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address

The Allen Co. Investment Co., Longton, Kan.

CORN, wheat, alfalfa and all other grasses grow to perfection in Northeast Kansas. I have special bargains in 80, 100, 120, 160 and 480-acre farms close to good towns near here. Price from \$45 to \$85 per acre. Dark loam soil, best just right. Some fine tall timber and improved good enough for anyone. Write for free list. S. M. Strawn, Valley Falls, Jefferson Co., Kan.

For Sale By Owner

80 ACRES rich, fertile, smooth land; fine orchard and grove; no buildings; as good land as any in southeast Kansas; one mile to Vernon, Woodson Co.; \$2,400 cash. Write J. E. Seaton, Rt. 2, Spencer, Ia.

SOUTH DAKOTA

FARMERS AND RENTERS—Why not secure one of my farms in Stanley county at \$15 per acre or in Hand county at \$30 before the price has advanced in the spring? JAY P. MOKRILL, Palace Building, Minneapolis, Minnesota.

Anderson, Nevada, Iowa.....	880
Huis, three years, Besigue, Henry Rolph, Nevada, Iowa.....	1,375
Vermouth, two years, Papillon, R. M. Kurtz, Nevada, Iowa.....	290
Eden G., seven years, Glen Eden, Dennis Dodd.....	175

SUMMARY.

53 mares\$21,355; aver.....\$403

5 stallions4,200; aver.....840

58 head26,555; aver.....457

On this page will be found the advertisement of Mr. J. W. Bennett, offering for sale a farm of 360 acres located in Kanabec county, Minn. If desirable to the purchaser, Mr. Bennett will sell eighty acres of this tract with house and barn. The soil is a rich clay loam adapted to stock raising and desirable in every particular. For additional facts or prices write to Mr. J. W. Bennett, 1739 Marshall avenue, St. Paul, Minn.

Ask your neighbor to subscribe for The Homestead.

COLORADO

CALLS THE FARMER

She has the land and water, but needs the farmer who farms. Colorado offers you an opportunity you cannot find in the Eastern states, puts a high premium in crop returns on the willing, industrious farmer. Eighty acres will give you better returns than a half section where you are, with less work and worry.

THERE IS A REASON FOR THIS.

Will you not come and investigate or write us for information? "The Quicker, the Cheaper." Address

NICHOLS & VAN SCOY,

1646 Broadway, Denver, Colo.

Lands in any District.

Money To Loan

On Improved Farms in Iowa and Minnesota

Write for rates and application blanks. Inform us amount wanted and give description of land.

FARM MORTGAGES FOR SALE

Write for list issued each month.

ELLSWORTH & JONES,

IOWA FALLS, IOWA.

IF YOU MEAN BUSINESS

IT WILL PAY YOU TO INVESTIGATE

THIS. 160 acres in Sumner county, Kansas, 3 miles from a good town, close to school; 100 acres in cultivation, 60 acres in pasture; good 4-room house, good barn for 6 head of horses, mow, good orchard and grove. Price \$6,000. We have a number of other farms which we can give you possession of March 1, 1910, at \$40 to \$50 per acre. Sumner county is the Banner Corn County in Kansas.

BRADSHAW & MOTT, MANHATTAN HOTEL BUILDING, WICHITA, KANSAS.

CHOICE TEXAS PANHANDLE

FOR IOWA LAND

WE have some of the choicest land in the heart of Texas Panhandle for cash sale, or will exchange at cash value for Iowa land, income property or merchandise. Can show alfalfa farms worth \$100 per acre near this land. Neighborhood settled with northern farmers. Easy terms for cash. Write today, describing fully what you have.

THE KELLY LAND SYSTEM,

Room H. 17, News Arcade, Des Moines, Iowa.

Snap in Stock Farm

FOR SALE—360 acres good clay soil; 4 miles from railway station, half way between Minneapolis and Duluth; R. F. D., main road, school 1/2 mile, unfinished house and barn; 60 acres cleared; meadows ditched; 80 acres with house and barn. \$20 an acre; whole tract, \$18 an acre, 1/2 cash. J. W. Bennett, 1739 Marshall Ave., St. Paul, Minn.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

400 ACRES of Bluegrass

CORN and clover land in the big crop belt of central Missouri, 90 miles east Kansas City, 200 west of St. Louis; good improvements, no waste; 4 miles from town; price \$50. Well improved farms \$50 to \$80; list free. J. E. McConnell, Ionia, Missouri.

IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advance so rapidly in price. Illustrated literature. Write today. Eugene T. Thomson, Crawford Block, Sedalia, Missouri.

100,000 Fruit, Dairy and Poultry Farms in Missouri

\$2.50 per acre and up. For full particulars ask Mo. State Immigration Commission, Springfield, Mo.

Missouri Farms

GRUNDY COUNTY, MO.

Corn, Wheat, Clover and Alfalfa Lands

HIGHLY improved farms of 80 acres up. Good roads, good schools, good markets. All kinds of fruits, natural groves, mild climate. Many Iowa farmers here, all prosperous. Most natural dairy country in U. S. Taxes very low. Easy terms. Low rate of interest. Small cash payments required. Write me, stating about what you want.

H. J. HUGHES, 317 WATER ST., TRENTON, MISSOURI.

We Want YOU

We want a good, live man to handle real estate and loans in your vicinity. Farmers make the best real estate men. You can make more money selling farms than farming them.

We Pay BIG Commissions

and start you right. We train you from the beginning so you can assist us in handling real estate and loan deals, and to become independent. You don't have to move to town. Work Saturdays. Write for our FREE Book today. NOW.

MORDEN LAND & LOAN CO.,

Instruction Department,

538 Palace Bldg., Minneapolis, Minn.

OREGON

1910

Is the Time

Railroad Development the Reason

FREE Richly Illustrated Booklets from all parts of Oregon, telling of FRUIT GROWING, FARMING, DAIRYING and other opportunities.

ASK QUESTIONS

PORTLAND COMMERICAL CLUB

PORTLAND, OREGON

IS THE PLACE FOR YOU

Near Gulf Coast Region

\$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana in Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit; truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops.

NO IRRIGATION SCHEME. 60 inches annual rain fall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county sea—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet.

J. D. LaBRIE, Gen'l Land Agent Pinaland Mfg. Co., 653 Keith & Perry Bldg., Kansas City, Mo.

IRRIGATED LANDS

In Colorado, under perfect ditch system. Unsurpassed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R. R. Superior local and foreign market. In tracts from 5 to 1,000 acres, at \$100 and up.

ORDWAY LAND CO., ORDWAY, COLO.

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also 1/2 section wild, \$25. B. J. McMahon, Budcott St. Paul, Minn.

DO YOU KNOW

\$35,000⁰⁰ FROM 139 ACRES IS A RECORD WE CAN PROVE FOR SOUTHERN MISSOURI!

WEALTH IN MISSOURI FRUIT

The *LaCleda Blade* in recent issue says: "The peach harvest in the Ozarks is half over, and the crop of Southern Missouri has turned out much better, both as to quality and quantity, than had been expected. The quality was never better. During the past week the choicest Elbertas have sold as high as \$2.40 per crate, or \$1,200.00 per car. Many towns in South Missouri have shipped from three to one hundred cars direct to New York and Boston. Many of the orchardists sold the products of their orchards on the trees to commission men from the East, realizing all the way from \$5,000.00 to \$40,000.00. The larger orchards brought their owners from \$30,000.00 to \$40,000.00 this year. The product from one orchard sold for \$72,000.00."

\$200.00 an Acre Lowest Profit for Years

A commission merchant, Mr. U. G. Davis, says: "I have bought and shipped

RECORD CROPS

Without one drop of irrigation in any shape or form, what do you think of ordinary land that produced on 139 acres, crops to the value of \$35,000.00, an average of \$251.80 an acre. This record is not one grower on one farm, but ten different growers in ten different sections, and the several crops included Peaches, Grapes, Strawberries, Tomatoes and Beans.

Taking the products separately, the average for each crop was, Peaches, \$244.00 an acre; Grapes, \$760.00 an acre; Strawberries, \$716.00 an acre; Tomatoes, \$280.00 an acre; Beans, \$470.00 an acre. These several products covering peach and fruit growing and ordinary farm vegetables, is some farming, isn't it? Is your farm doing as well as this?

The Southern Missouri Elberta Peach District is practically the only section of the whole United States where natural rain lands produce as much or more per acre and at prices equal to and often exceeding the highest priced irrigated land, selling from \$100.00 to \$500.00 an acre.

When the State of Missouri gathers statistics from all over the U. S., and the facts and figures prove it to be the leading peach and fruit State in the Union; when the geological map issued by it shows the land of the Carter County Land & Fruit Co. to be practically in the very heart of the Ozark Fruit Region; when Germany proves the finest fruit soil in the world is from Missouri, you will admit that the weight of evidence is in our favor, and the statements we make, regarding our land, are based upon sound truths that permit of no argument.

peaches from this district for years and have paid from \$1.25 to \$4.00 (per tree) for crops and have made my profit over and above this price. I think \$1.25 to \$1.50 per tree (\$200.00 to \$250.00 an acre) is a conservative estimate for orchards in this district."

PROFITS IN FRUIT GROWING

Of the leading fruits—strawberries, raspberries, blackberries, apples, pears, grapes, cantaloupes, water melons, plums, crabapples, cherries, dewberries, etc., are wonderful producers. Peach orcharding would not be within the means of a man of moderate means were it not for the immediate and remarkable profit-taking from secondary crops. It takes about three to four years before a peach orchard bears enough fruit to make money, and, in the meantime, on the same land set to peach trees, you can be raising other crops, that not only make you a handsome living but put money in the bank; hence you have the advantage of raising two crops on same ground where ordinary land, in other parts of the country, produce but one. This fact alone saves one-half of the labor and taxes, besides doubling your income per acre over ordinary farming.

TERMS-25¢ AN ACRE DOWN 10¢ AN ACRE MONTHLY

WOULD NOT SELL FOR \$1000.00 PER ACRE

Mr. Herman Wisch says: "I have lived in the Southern Missouri district for over twenty years. I own eight acres of vineyard which I would not sell for \$1,000.00 an acre. My vineyard pays me \$250.00 per acre every year. I also own ten acres unimproved land adjoining which I would not sell for \$300.00 per acre."

Dennis McNally picked 400 crates of strawberries from one acre of land. J. J. Jones sold \$381.00 worth of berries from three acres of land.

PROFITS IN GENERAL FARMING

Gov. Hadley says: "The man who wants a home, who wants to get back to soil, no matter if he has made a partial failure in something else, can find no better opportunity than by taking up some of the cheap land in the Ozarks and applying intelligent methods to the development of its resources."

Missouri grows commercially a larger variety of valuable crops than any other State in the Union or the whole world. A farmer on our land has more time in which to plant, cultivate, harvest and market his crops than his Northern or Eastern neighbor, and the plow may be kept going practically every month in the year. The soil has stood the test for 50 years and will not wear, burn or leach out.

The leading farm crops are peas, beans, Irish and sweet potatoes, tomatoes, beets, cabbage, sweet corn, cauliflower, tobacco, peanuts, wheat, corn, rye, oats, millet, kaffir corn, speltz, sorghum, timothy, alfalfa, clover, cow peas, Hungarian hay, bluestem, etc. You must bear in mind that all peaches, fruits and farm products are raised on natural rain land and without one drop of irrigation.

40 to 80 Bushels of Corn to Acre

Mrs. Lizzie Carter, Van Buren, says: "Carter County was named after my family. I own 6000 acres. Corn runs from 40 to 80 bushels to the acre and as fine as can be found anywhere."

Frank Bristol, Barren, says: "I have lived in Carter County 20 years and own 80 acres of land. I raise potatoes that measure 8 inches in circumference."

Carter County Land & Fruit Co.
619 Bank Commerce Building,
ST. LOUIS, MO.

Much of the land we offer you for \$10. an acre is easily worth \$25.00 per acre. It is an ideal country in every respect. Climate, soil, markets, etc. As Gov. Hadley said: "The hills of the Ozarks are not really hills, but rolling high prairie land covered with grass as high as a man's head."

GREAT COUNTRY FOR HOGS, CATTLE, MULES, POULTRY

There are over 50,000 registered cattle in the State. The Missouri mule is famous the world over. Sixty-five per cent of the cattle fattened in State are practically without shelter. Mild winters and cool summers do away with the need of expensive shelters. Grass is abundant for nine to ten and one-half months of the year, and you never have to feed over three months at the outside. Corn and cow peas grow on same land. Mast, wild grass and Japanese clover take care of hogs practically all the year. Sows farrow in the open nearly the whole year round.

J. R. Griffin, Chicopee, says: "Grass comes in March and lasts from nine to ten and one-half months and you never have to feed more than three months at the outside. Blue stem grass grows as high as a man's head on horseback."

Let us send you our book, free, which contains facts and figures about this country you never dreamed of.

Write for it today.

\$10.00 AN ACRE
THE ONLY CHEAP THING ABOUT OUR LAND IS THE PRICE.
Sold in 20 and 40 acre tracts—20 acres on above terms costs you \$5.00 down and \$2.00 monthly—40 acre tracts costs you \$10.00 down and \$4.00 monthly.
FREE BOOK
Write for it Today!

"The Yeast of the Soil."

"The yeast of the soil," as we shall consider it, is not plant food, but low organisms of life which exist in the soil and but for which cultivated soils would be practically barren, says W. H. Bowker in "Plant Food." "The yeast of the soil" is what is scientifically known as bacteria—organisms which thrive in the soil and by means of which unavailable plant food, especially nitrogen in the form of organic matter, such as stable manure (leaves, stalks, etc.) is rendered available. The great discoveries of Hellreigel, the leading investigator along this line, demonstrate that higher orders of plant life are dependent upon lower orders of life. We could not profitably grow a corn or potato crop unless these organisms were growing at the same time in the soil, or had previously existed there and done their work.

We speak of the soil as being cold and non-productive. It may be cold from an excess of water, or because it is too compact and heavy, but the moment we drain it or lighten it by cultivation it becomes productive. The real reason it becomes productive is that we admit air and warmth, which are necessary to develop the crop and also the "yeast plants" (bacteria)

which, in turn, attack the stable manure, or other organic matter (humus) and break it down, rendering it available to plants. Farmers say that they can hear corn grow on warm days and hot nights, which is almost literally true. It is because the weather is favorable to the growth of the nitrifying plants (bacteria of the soil,) which convert the unavailable nitrogen into available and soluble forms.

It is a well-known fact that the yeast used in making bread and the "mother" used in making vinegar are nothing but an aggregation of bacteria "yeast plants" as it were. When the yeast is added to bread under warm, favorable conditions, it begins to grow, and in its growth liberates carbonic acid gas, which causes the bread to rise and become light and porous. In the case of vinegar a ferment or "yeast plant" attacks the sugar of the cider and converts it into alcohol; and the "mother" of vinegar (another kind of bacteria) attacks the alcohol and converts it into an acid which we call vinegar.

Similar forms of life are at work, under warm, favorable conditions, in the soil, preparing plant food for assimilation. Not only are warmth and the right proportion of moisture necessary for their growth, but the soil must be neutral or slightly alkaline for their highest development. In order to produce this condition an application of quicklime or unleached wood ashes is frequently necessary to correct any acidity of the soil resulting from organic acids which are produced under certain soil conditions.

All organic matter or substances which have been at some time organized into plants by the life force, such as leaves, roots, stems, etc., must decay before they can nourish, that is, before they can be absorbed and re-organized into growing crops. Stable manure contains a small amount of soluble salts which are immediately ready to feed the crop, but the bulk of the manure must rot down through the influence of bacterial action before it becomes food; and the process of decay, or rot, is largely in the manure or in the soil, which, as we have seen, are dependent upon certain favorable conditions.

In the spring of the year, when conditions are usually unfavorable for the propagation and rapid multiplication of these soil "yeast plants," commercial manures are found of great assistance in forcing an early growth by supplying forms of plant food which have been rendered soluble by chemical treatment or are, so to speak, pre-digested, and ready for the crop to feed upon immediately. Since most of our cultivated crops make their chief growth in from sixty to ninety days, it will be clear that we must have plant food in the soil that will feed the plant from the beginning to end, especially in the beginning of the season, when the bacteria of the soil, owing to weather conditions, are not active.

SOME INSIDE INFORMATION.

"Something new from Kalamazoo" is not a new expression. It is important, however, in its connection with the Kalamazoo Stove Company and its manner of selling the Kalamazoo direct to you, freight prepaid, and for cash or on time as any responsible buyer may wish. Thirty thousand stoves are nearly always on hand in the great Kalamazoo warehouse. As the immense trade of the Kalamazoo Stove Company makes it necessary that there is a constant sending in and out of stoves so that this great repository is emptied time and again during the year, it will be seen that enormous numbers of the Kalamazoo are sold. It is said that a Kalamazoo stove may be found in each of more than one-third of the postoffices of the country and that the proportion is growing yearly. The Kalamazoo are made as ranges, heaters, gas stoves, wood stoves, and in fact stoves of every kind that the trade may demand. The company is reasonable in every particular and any statements they may make may be relied upon. The Kalamazoo pleases every patron or knows why. For information write for catalog 165 to the Kalamazoo Stove Company, Kalamazoo, Mich.



My Price-List TELLS

The Story

charges. one shipment.

W. R. ADAMS

MAKE A PROFIT ON YOUR FURS

Don't give away 5 per cent of your furs for the sake of selling them. This you do by shipping them to a Commission House. They buy your furs at a profit and then deduct 5 per cent commission, really making two profits. Ship to a man who is satisfied with one small profit. I hold all furs shipped to me for approval of my valuation if requested. If my valuation is not satisfactory, I prepay the return. Let my remittance prove that I am not trying to get rich in a day or on any day. Ship me your next lot of furs. Send at once for my special price list. Address me at 228 Broad Street, Fremont, Neb.



Your Returns PROVE

It True.

WEIL BROS. & CO., FORT WAYNE, IND.

AMERICA'S GREATEST RAW-FUR HOUSE. Established FORTY YEARS. Exporters direct to all the great Fur Markets of the world. Have you a copy of the 1910 Edition, our



Mr. A. Weil

Your Furs always held separate.

FREE TRAPPERS GUIDE

If not, send for it immediately. We want it in the hands of every Hunter, Trapper and Fur Shipper in America. Our FREE PRICE-LIST. It tells the story of the growth of our great business. Get it before you ship another skin. Located in the center of the Fur Industry, yet not in a large city, our shippers need not help pay the heavy expenses other Houses have. Our World's Newest Medical Discovery BAIT, for all animals. Ask for FREE PRICE-LIST describing them. Get ACQUAINTED WITH US. Send us your address. Do it today. Ask for FREE "GUIDE," PRICE-LIST & Tags, Blanks, Envelopes. All promptly mailed without any obligation on your part. You will make money shipping to us. Send a trial shipment and see.



Mr. I. Weil

AMERICA'S GREATEST RAW-FUR HOUSE.

WEIL BROS. & CO. CAPITAL \$500,000. PAID. FT. WAYNE, IND.

1,500 Manu-
facturers
of

FURS

In New York City alone can use quite some skins. They have sold their old stock and are hungry for fresh goods. We sell to most of them. Send for price list and ship to M. F. Pfaffler & Co., 6 East 12th St. (Desk 5), New York.

ESTABLISHED 1890.
Phone 21.



Furs Wool Hides

Get my prices
before selling.
Give me your
name and
address and
I will keep

you posted on the markets. Our aim:
Top Prices and Satisfied Customers

E. D. CLAGG,
323 Central Ave., Fort Dodge, Iowa.

AGENTS WANTED

Farmers, Butchers, Liverymen and all others who can secure hides.

WE HAVE A SPECIAL PROPOSITION FOR YOU

If you ship one hide or a dozen we have a special offer for you to represent us in your community.

SHIP HIDES TO US

Or write for information of this offer. Cow or horse hides, furs of all kinds, tanned and made into robes, coats and rugs. Address

STATE TANNING CO.,
Dept. A, DES MOINES, IOWA.

Ship Us Your Hides

WE are tanners of cattle and horse hides. Make Coats double-breasted with braid down the front, best quality of quilted lining, bar buttons and cord, for \$8; tanning included for \$12.50. Line robes with A No. 1 wool plush for \$4; tanning and lining complete for \$8.50; and guarantee all our work. Write for free price list, booklet and shipping tags.

GLOBE TANNING & MFG. CO.
222 S. E. 1st St., DES MOINES, IOWA.

SKUNK, MINK, FOX, RACCOON

(IVET CATS especially. All other raw furs wanted. Trappers, dealers, large country collectors, if you want honest treatment, reliable prices, quick returns in any form desired, and no commission or expressage taken out of your shipments, you can get it by shipping your furs this way. Twenty-seven years of large experience. Personal assortments. I pay fully 10% more than any St. Louis or New York house can. I will prove this by divided shipments. Send me half, the other fellow half, both alike, and I will prove my assertion. Send for prices issued every month during shipping season. Lemuel Black, Lock Box 338, Hightstown, N.J. Reference: First National Bank, Hightstown, N.J.

When writing please mention this paper.

HO! HUNTERS

Do you enjoy hunting, camping and trapping stories by men who have been there and who write from experience? Then see here **CAMP AND TRAIL** is a fine 16 to 32 page weekly devoted to everything in the out-of-doors line relating to hunting and kindred pursuits. It is the guide and entertainer to the out door clan. Sample Copy 5c, \$1.50 Per Year. **HUNTER-TRADER-TRAPPER** is a big monthly magazine, 160 to 200 pages, about Steel Traps, Snare, Deadfalls, Bait, Trapping, Secrets, Raw Furs, Big Game Hunting, Dogs, etc., and a 64 page Booklet containing **CAME LAWS**, Camping Hints, etc., both for 10c. Yearly subscription, \$1.00. A. R. HARDING PUB. CO., Columbus, O. Box 189

If You Have Your

HIDES TANNED

by our OIL TAN PROCESS you will have a hide that will be just as valuable as buffalo robes. It will wear longer, will be softer and lighter in weight and will make the most beautiful

FUR COATS AND ROBES

Your hides are too valuable to send to tanners you know nothing about. Don't let beginners experiment on them. We have been in business for twenty years. Write us for catalog and shipping tags. Address

IOWA TANNING CO., Dept. C, DES MOINES, IA.

SHIP YOUR HIDES & FURS

direct to Biggs & Koch and you will get the highest prices and save all commissions. A square deal and quick returns. Full weights and honest grading. One hide, one skin or a car load. No matter whether you are a trader or trapper, farmer, dealer we can do you good and make you money. It will pay you to write us for price list and FREE shipping tags. Fur shipments held separate on request, and your furs back if our returns are not O. K. "Trappers Guide" (free to shippers. Write today for catalogue of Trappers Supplies. BIGGS & KOCH, 954 Liberty St., Kansas City, Mo. Largest hide and fur house in Southwest. Estab. 1882

SEND US YOUR HIDES.

We will tan and make them into Coats and Robes at a great saving to you. Do not sell your hides for a few dollars and then buy a coat or robe made from scraps and pieces. But send us a horse or cattle hide and we will make you a Coat or Robe from the whole hide and save you 50 per cent.

Write for Free Catalog. MONARCH TANNING CO., Des Moines, Ia.

BAYER TANNING CO.

Tanners of cattle and horse hides for coats, robes, rugs, harness, lace leather, etc. 40 years' experience; commenced tanning buffalo robes in 1872. You'll get a square deal with no regrets. Write for booklet of information on handling and shipping hides; also price list. Address 105 S.W. 9th St., Des Moines, Iowa.

NEARLY 60 YEARS AGO THE FIRM OF JOS. ULLMANN

WAS ESTABLISHED AND BEGAN HANDLING

RAW FURS AND SKINS

IN A SMALL AND MODEST WAY

By LIBERAL DEALING, both with CUSTOMERS and SHIPPERS, we have grown to be the GREATEST FUR HOUSE IN THE WORLD, with BRANCHES IN EVERY IMPORTANT FUR MARKET.

If you are not already a regular shipper, MAKE US A TRIAL SHIPMENT and we will convince you that it is to your best interest to deal with us.

WRITE FOR PRICE-LIST. Address

JOS. ULLMANN,

146-148-150 E. 3rd St., ST. PAUL, MINN.

Desk 4 (Established 1854).

We pay express and charge no commission.



RAW FURS

Hunters--Trappers--Ship your Raw Furs and Hides to us. We pay higher prices than others because we are manufacturing furriers. Send for price list and compare it with others. With price list we will send you a proposition whereby you can get pair FUR GLOVES FREE. We also tan hides and make Fur Coats and Robes. M. L. Glickman & Co., Dept. A, 205 Court Ave., Des Moines, Ia.

FURS WANTED

We are netting our shippers 30c to 35c for average lots of muskrats; \$1.25 to \$1.75 for average lots of skunk; all other furs in proportion. Ask for price list. Peubler & Hildebrand Fur House, Drawer 5, Osawatomie, Iowa.

Cash Paid for Raw Furs

Beavers, Otter, and all fur-bearing animals. We pay all express charges. Write for price list. GINSENG

BELT, BUTLER CO., 148 Greene St., New York

NORTHWESTERN ROBE & TANNING CO., SIOUX CITY, IOWA.

TANNERS of all kinds of furs, pelts, cattle and horse hides for coats, robes and rugs. Write for prices and shipping tags.

TAN HIDES

SEND us your hides and we will tan them and make your robes, coats, mittens or rugs. All work guaranteed. Water soft and malt proof. Cash paid for hides and furs.

Sioux Falls Robe & Tanning Co., Sioux Falls, So. Dakota.

WE WANT YOUR SMALL CATCH OF Raw Furs and Custom Tanning

W. Weaver, Custom Tanner, Reading, Mich.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD
BY CLAY, ROBINSON & CO.]

Chicago Union Stock Yards, Jan. 3.—Perhaps never before in market history have there been fewer choice to prime beef steers and more plain to medium flesh grades marketed at Chicago for this time of the year. The same story comes from the other central markets. Stormy weather, high-costing corn and miserable condition of feed lots are to a great extent responsible for this state of affairs. Relatively few loads of cattle have been good enough to go above \$7.00 in late weeks, while there has been a big list of sales at \$5.25@6.50. There have been too many of one kind. The better grades have been pushed up to a very high level, while the margin between these and the plainer kinds has been unusually wide. Last winter neither weight nor finish seemed to be appreciated by the buyers. Feeders held onto their cattle in the hope of being remunerated. In this they were disappointed, however. Short-fed cattle were the money makers. This winter conditions have been somewhat reversed. Buyers are showing well-fatted beefs high favor and will likely continue to do so for several months to come. There is a good consumptive demand for this class of beef, while there is a shortage of such offerings back in the feed lots. It should prove a good plan not to follow the crowd this winter. Those who can possibly do so should keep back all good quality cattle lacking desirable flesh until such are in well-fatted condition. There seems to be no question of enough half-fat cattle to come forward the next few months to satisfy all trade requirements. But there is a shortage of strictly choice grades. Unless all signs fail, the feeder will be well paid for the time, expense and trouble expended in getting good quality cattle of plain and medium flesh in good condition for the shambles.

HOGS HIT NEW HIGH SPOT.

Wednesday, two weeks ago, hog prices were at low level for the month. Monday and Tuesday last week rates did an aeroplane stunt. Tuesday's top of \$8.75 was highest of the month, summit for the year and pinnacle for December in modern packing times. Packers were not to blame for the ascension, however. A miniature run, consequent upon observance of the Christmas holiday and snow blockade of country roads, coupled with shipping demand of some urgency, made the performance possible. Big packers put up a strenuous fight against powerful odds to hold rates down and the attempt to conceal their need of swine was almost pathetic times. Since the era of low temperatures they have played a freeze-out game every day and despite famine crops of hogs in the markets the bluff was still made to work. Their attitude at this stage of a winter season can hardly be misconstrued. It appears unreasonable to conclude other than that beyond immediate consumptive outlet they do not care to acquire ownership of hogs. Basing conclusion on apparently carefully garnered reports from producers, some enlargement of receipts of hogs at market may reasonably be looked for during the next six weeks. If a fair increase be forthcoming recession in prices can hardly be avoided. No encouragement can be discerned for hope of other than for less than normal supplies of hogs during late spring and summer months, however. Viewing the outlook impartially, hogs of good weight and fat need selling. Pigs, shoats and light weights need feeding.

STRIKING PHASES OF SHEEP TRADE.

In late weeks sheep and lamb feeders have seen prices drop like a loaded passenger elevator under heavy and congested receipts at Chicago as well as at other central markets. And they witnessed rates take a sky-rocket shoot upward when light supplies were sent in. These phases of the trade are more marked this winter than usual. The first instance indicates how eager buyers are to lower the high cost of the offerings and in the second instance shows how hungry they are for supplies. Even with goodly runs they are not laggards. Mutton and lamb chops were never more popular with the public than now, considering the high cost of the same. All signs point to a continuation of strong prices. Good consumptive demand and smaller visible supplies warrant this view of the situation. Business and industrial affairs are prosperous. The feed lots both in the East and West are shy of material, as compared with recent years. In fact, eastern slaughterers, more than usual, will have to rely upon Chicago for supplies. There should be no pressing of half-fat stock on the market. All conditions certainly warrant converting corn into mutton and lamb meats. The trade will take good care of the well-fatted offerings, provided they are marketed in a judicious manner.

CATTLE PRICES DECLINE.

In spite of the moderate run of beef steers last week, buyers dominated the trade after the start of the week and late trading showed 10@15c loss from the same period of the previous week. Best beef steers offered brought \$8.50, although a prime class would have made \$9.00 had they been available. Bulk of trading was at \$5.50@7.15. Cows and heifers averaged steady for the week, with selling in main at \$3.50@4.75 for butcher grades and \$2.45@3.15 for canners and cutters. Bulls sold largely at \$3.60@4.50. Stockers and feeders went 10c lower, with most of the former offerings at \$3.65@4.45 and bulk of the latter \$4.50@5.15.

BOOMING TRADE IN HOGS.

Light runs and relatively good demand from eastern shippers offset the bearishness of local packers last week, and enabled sellers to boost prices 20@30c over final sales of the previous week. A new top of \$8.76 for the year was recorded and it was necessary to go back to July, 1882, to find a time when a higher price was paid. Most of the sales for the week were at \$8.40@8.65 for offerings weighing 260 pounds and heavier, \$8.25@8.60 for the 200 to 250 pounds average and \$8.15@8.45 for the 135 to 195 pounds average.

RECORD PRICE FOR LAMBS.

Sellers controlled the whelp hand in the sheep and lamb trade last week and boosted prices 25@50c over the close of the previous

week. Receipts were light and buyers were hungry for supplies. Fancy lambs reached \$8.85, with native yearlings at \$8.00 and westerns at \$7.85, the highest price ever obtained at this time of the season for such offerings. The sales were made by Clay, Robinson & Co. A small lot of fed western wethers sold at \$6.25 and a double celt of westerns at \$6.00, these sales being made by Clay, Robinson & Co., which were the highest ever made for this time of the year. For the week the bulk of trading was at \$4.50@5.50 for sheep, \$6.25@7.40 for yearlings and \$7.35@8.25 for lambs.

THE McADOO SALE.

Mr. F. P. McAdoo, of Indianola, Iowa, held a dispersion sale of Short-horn cattle and Shropshire sheep December 28th, as per previous announcements. The weather was extremely cold and so disagreeable that scarcely more than a local delegation were present. Although prices ruled quite low, fifty-seven head were disposed of. Forty-five head of sheep were sold at an average of \$11.84. As the sheep were evidently worth a great deal more than those present were willing to pay for them a considerably proportion remained unsold.

ELLIOTT'S SHORT-HORN SALE.

Mr. W. Byron Elliott sold thirty-seven head of Short-horn cattle at Hartley, Iowa,

If You Have Cattle, Hogs or Sheep to Market

Or Are Thinking of Buying Feeders—

Remember, that upon your choice of a commission firm may largely depend your profits. Any banker, and any live-stock shipper for whom we have ever done business, will tell you that

Clay, Robinson & Co. Are "O.K."

We invite your consignments, whether large or small. Whether you are a feeder who ships only an occasional carload, or a regular shipper, you may rest assured of first-class service and highest market value.

Our feeder-buying service is unexcelled. Send us your orders for anything you want in the line of feeding cattle or sheep, and save money and worry.

Reliable market information and advice cheerfully furnished. Write us at whatever market you intend shipping to.

Clay, Robinson & Co. Live Stock Commission

Chicago
South Omaha
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East Buffalo

Sioux City
Kansas City
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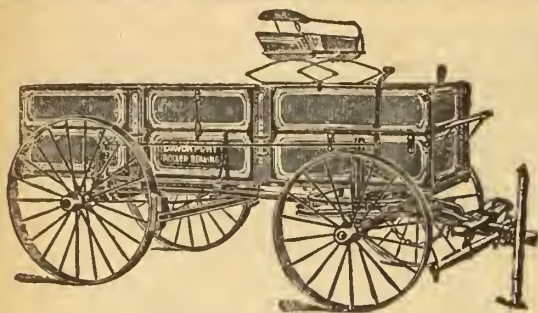
December 28th. There was a liberal attendance of buyers, not only from Iowa, but from Minnesota and South Dakota, and the average on the entire consignment was \$31.40 per head. The average on the eight bulls was \$90, and on the twenty-nine females \$79. As 25 per cent of the offering were under one year old, the prices may be accepted as being fairly good.

MASON-KINZER SHORT-HORN SALE.

Satisfactory prices were received by Messrs. A. P. Mason & Sons and J. H. Kinzer, at Union, Iowa, on Wednesday, December 15th. Messrs. Cahill Bros., of Rockford, Iowa, topped the sale, paying \$202.50 for the beautiful roan heifer by Gloster Marshall. The herd bull, Coming Star 2d, went at the bargain price of \$150 to Mr. W. J. Donnellson, of Alden, Iowa. Colonel Woods did the selling in his usual satisfactory manner. Messrs. E. W. Harmon, E. R. Silliman, M. L. Andrews, Cahill Bros., Wesley Crossman and J. L. Reece were liberal bidders on the best sorts. Animals selling for \$100 or over are listed below:

Scottish Milkmaid 2d, eight years, Landmark, E. W. Harmon, Rhodes, Iowa \$105.00
Scottish Milkmaid 5th, two years, Coming Star 2d, and b. c., M. W. Myers 150.00

Scottish Maiden, two years, Coming Star 2d, and b. c., J. L. Reece, New Providence, Iowa 142.50
Aileen, six years, Double Victor, and b. c., Wesley Crossman, Eldora, Ia. 137.50
Athena, three years, Royal Fashion, and c. c., Ed Mason, Union, Iowa 130.00
Pleasant Hill Blossom, six years, Fearless Victor, Wm. Crider, New Providence, Iowa 100.00
Alcatraz Sixth, four years, Scottish Victor, and c. c., E. W. Harmon, Rhodes, Iowa 160.00
Princess, three years, Prince Victor and b. c., Wesley Crossman 145.00
Daisy Hampton, three years, Hampton Fashion, Cahill Bros., Rockford, Iowa 187.50
Lois, one year, Gloster Marshall same 202.50
Kathleen's Beauty, one year, Goods Ury, E. W. Harmon 115.00
Flynn Farm Beauty, two years, Majestic Earl, Cahill Bros. 100.00
Glendale Phyllis 2d, four years, Roan Duke of Riverside, Wesley Crossman 120.00
Red Lady 2d, five years, Red Trooper, and c. c., same 100.00
Myrtle Star, one year, Coming Star, S. Wettherly, Union, Iowa 132.50
BULLS.
Coming Star 2d, five years, Coming Star, W. J. Donnellson, Alden, Ia. 150.00
Scottish Star, one year, Coming Star 2d, Monroe McKibben, Liscomb, Ia. 135.00



Do You Know a Wagon Bargain When You See It?

You can pay a certain price and get an old style wooden wagon that you and your neighbors have always used.

That will satisfy you as long as you don't know of anything better. But

You can pay just about the same price, possibly a little more, and

See What You Get for Your Money

Buy this Davenport Wagon and you get a wagon that is practically all steel—a wagon that has double the strength and double the life of your wooden wagon. There are no break-downs, nothing to rot, dry apart or work loose. First cost is the only cost. There are no repair bills. You get the automobile hub with its perfectly protected steel roller bearings. Unlike your wooden wagon, it is impossible for sand, dust, mud or water to enter the bearings. You have the straight instead of the tapering spindle. You oil all four wheels in one half minute. You do it without removing wheels. You get the wagon that is all convenience. You get easy running. You save your horses. Two horses pull as much as three with old style wagons.

This Roller Bearing Makes 30 Per Cent to 50 Per Cent Lighter Draft

Which is the better wagon bargain from you? Would you rather have the old style wooden wagon? Or would you rather pay the same price and get the long-lived, easy-running Davenport Roller Bearing Steel Wagon? Write for Catalog C to give you particulars.

DAVENPORT WAGON CO.

Davenport, Iowa



KRASCHER'S ANNUAL DUROC SALE—LAST CALL.

A place where you can always find good Duroc Jerseys is at Mr. M. A. Kraschel's, at Macon, Ill. Mr. Kraschel is not as pretentious as some, but he always has the goods when it comes to his sale offerings. He has well-defined ideas as to a good red hog and keeps busy trying to produce as near his ideal as possible. A boar that has done a world of good in this herd is High Notcher, a show boar and a breeding boar. As a sire he has very few equals and the reports of the Duroc shows at the best state fairs will reveal the fact that about as many of his sons and daughters have been in the list as those of any other boar. Mr. Kraschel holds his annual bred sow sale January 13th and at this time will sell a number of gilts by High Notcher and a number of sows and gilts bred to him. These should be much sought after by good breeders who expect to show in the future. Many breeders know that when they have to show against High Notcher sows that they are hard to defeat. You better get in on some of these. In the writer's opinion the best sow in the sale is the sow by King of Cols. This sow is a show sow and had she been out this fall she might have caused some trouble in the show ring. She is bred to Gold Col., a boar that is now being used in the herd. This fact to those who know Mr. Kraschel is evidence of his superiority. Another good boar that has been used the past year is King's Col., a son of the noted King of Cols. To make mention of all the attractions in the sale would take too much space, but we can truthfully say that this is the best bunch of bred sows Mr. Kraschel has ever offered at auction. They are by the most popular boars of the breed and are good individually. Sires represented in their pedigrees are King of Cols., Ohio Chief, Crimson Wonder Again, Kelley's Pilot Wonder, Advance, Prince of Cols. and others as good. Included is the first prize senior yearling sow at the Illinois State Fair, 1909. She is by Col. S. and bred to Gold Col. This sale follows that of Messrs. Baxter & Comer, at Pawnee, and you will be well taken care of between sales. Send for catalog. Bids sent to Mr. Carlos C. Palmer, of this paper, in care of Mr. M. A. Kraschel will be carefully handled. See page 62.

NEW LONDON, IOWA, DUROC SALE—LAST CALL.

January 14th is the day of the New London, Iowa, Duroc Jersey bred sow sale. The consignors are Messrs. Hanks & Bishop, New London, Iowa, and Druoz & Jenks, Fairfield, Iowa. The former firm have been known as breeders of show stuff for several years and

Colorado Irrigated Land

22,000 acres of irrigated Government land in Southeastern Colorado has recently been opened for entry under the provisions of the Carey act. The State of Colorado has contracted with the Two Buttes Irrigation and Reservoir Company to construct the irrigation works for the reclamation of this tract of land, which is located in Baca and Prowers counties, close to Rocky Ford and other proven districts. Water rights are of incontestable priority and title to land comes direct from the State.

Price of Land 50 Cents Per Acre Perpetual Water Right \$35 Per Acre

Payable \$5.25 per acre cash, balance in ten annual payments. The tract is nearer Kansas City and Mississippi Valley markets than any other Carey act project. Land free from brush and stone, and soil will average 50 feet in depth. Altitude, 4,050 feet; climate best in State; rainfall 16 inches; crops, all grains, alfalfa, sugar beets, vegetables and fruit; no alkali. Local markets for everything. No agents employed and no commissions paid. Farmers wanted, not speculators. For particulars write,

THE TWO BUTTES IRRIGATION AND RESERVOIR CO., LAMAR, COLORADO.

SEED CORN

Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped direct to your own test. Send for free catalog. Brown, LaGrange, Cook County, Ill.

How to Make \$25 to \$40 Per Week

Agents—Make Big Money—No Experience Necessary—Easy Work—Something New—Different—Success Guaranteed to Those Who Mean Business—Anybody that Can Sell Can Make \$25 to \$40 Per Week. Read Our Plan.

NOW IT THE TIME

You can make big money in your spare time or all-time work. Right among the farmers in your own neighborhood—people whom you know and who know you. No need to worry along short of money any more. Take advantage of this lifetime opportunity to make money. The more time you give to this proposition the more money you make. But, even if you give only one hour a day to it, you'll make money fast. The

NEW ERA ROPE-MAKING MACHINE

is the most practical device for farmers ever invented. Nothing beats it. Sell on sight. Every farmer needs one. Make a hay-fork rope, 150 feet long, for \$1.75, which costs \$1.50 at the store. Makes trip rope, 135 feet long, for 68 cents; would cost \$5. Makes 4 halter ropes for 5 cents. Also makes pulley ropes, clothes line and ropes for all purposes, any length, any thickness.

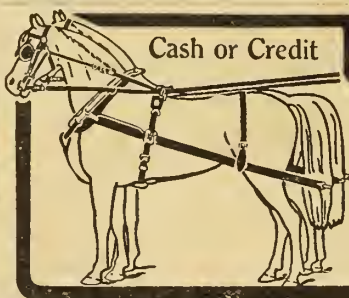
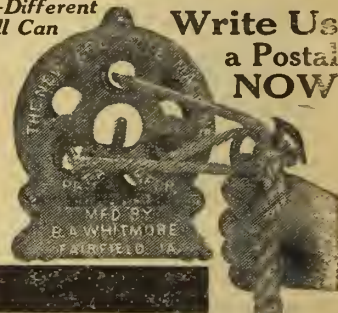
Every ambitious person should write at once to get full particulars, exclusive proposition, restricted territory, and low prices to agents. You can sell this machine simply by showing it to your neighbors and friends. It is so practical and such a convenience and money-saver, that you'll sell them easily. Start now. Every week that goes by, you lose from \$25 to \$40—the money you could have made by selling this machine.

EVERY FARMER WANTS ONE

This machine makes good, strong, pliable rope out of binder twine, of any length when needed, at once or at any time. Saves trips to town and cost of rope. Write today—a postal will do, and we'll tell you exactly why you can sell lots of these machines, and will teach you how to sell them.

B. A. WHITMORE CO., Dept. 25, Fairfield, Iowa.

Write Us
a Postal
NOW



Cash or Credit

SAVE 25 to 50% ON HARNESS \$23.00

\$23.00 buys our Leader No. 53 Farmers 1½ inch Team Harness delivered at your railroad station. If it is not the best value you ever had, send it back and we will refund your money. The above harness is a genuine bargain—a splendidly made 1½ inch Team Harness. All of the best grade Oak Tanned Leather. We are the largest manufacturers of harness selling direct to the user. We issue a 100 page catalog, the finest ever gotten out in the harness line. It is full of money saving offers. We want to convince you there is no better harness made selling at any price. Write for free catalog today and compare our prices with your home dealer.

R. M. KNOX, Pres., Western Harness & Supply Co. 613 Main Street, Waterloo, Iowa.

FREIGHT PREPAID

at the last Iowa State Fair they made the boys step some. At that show they won first in class and grand champion sow on Chief's Jewell by Ohio Chief. This sow goes in the sale bred to B. & C's Col., the champion boar of the year. She raised a fine litter since the Iowa State Fair and will be a little thin on that account, but you know she is a brood sow and not simply a fat show sow. The balance of the offering will be bred to Model Wonder, a prize-winning son of Crimson Wonder I Am and a sire of prize winners; Proud Ohio Chief, third-prize aged boar at Des Moines this year and sired by Ohio Chief, and Proud Col., by Chief's Col. by King of Cols., and out of a Proud Advance sow. Model Wonder needs no introduction to Duroc breeders. Proud Ohio Chief will make a stronger show next year than he did this and as a sire he bids fair to be in a class with a few of national reputation. The writer likes Proud Ohio Chief better every time we see him and see his produce. Proud Col. will have to be reckoned with next year at the shows and we think him an extra good prospect. It will be a good idea to have a litter of pigs sired by him. Another attraction listed is an Ohio Chief sow bred to Defender, the International stock show champion. About twenty head will be sired by Model Wonder and they are good. These are bred to Proud Ohio Chief and Proud Col. A Prince of Cols. sow is bred to Model Wonder. One by Proud Advance, one by Prince Wonder and three by Chief's Col. are bred to Model Wonder. Some gilts by Proud Ohio Chief, B. & C's Col., Col. S. and others are bred to Proud Col. Others are sired by Jenk's Wonder, Model Advance Choice by Model Chief's Advance. This sale follows that of Mr. M. A. Kraschel, at Macon, Ill., and the connections are easy. Don't miss this sale because it is the last of the circuit, as it is one of the most important. These sows will do any breeder good. Send for catalog. The advertisement appears on page 62. Bids sent to Mr. Carlos C. Palmer, Homestead representative, in care of Messrs. Hanks & Bishop, New London, Iowa, will be properly taken care of sale day.

BAXTER & COMER'S SALE—LAST CALL.

Messrs. Baxter & Comer, of Pawnee and Carlinville, Ill., will hold their great B. & C's Col. Duroc Jersey sale at Mr. Baxter's sale pavilion, in Pawnee, Wednesday, January 12th. They will sell twenty sows bred to B. & C's Col. in this sale. A litter by this boar will mean much to the success of your sale next fall. These gentlemen are not expecting high prices, so don't stay away on that account. If you cannot attend, send a bid. You may get a good sow for

less than you think. B. & C's Col. is a wonderful boar. He had to be to win grand championship at the Iowa and Illinois State Fairs, which are the largest in the United States. Another good proposition is a sow bred to Crimson Wonder III., the grand champion of Nebraska, 1908, and winner at Iowa, Nebraska and Illinois State Fairs, 1909. Three good sows by King of Cols. go in the sale bred to Crimson Wonder III. Look after these. Then there will be some bred to McNeil's Model, the sensational under-year boar of 1907, and don't forget his produce were prize winners at the Illinois State Fair, 1908, and at the Illinois, Iowa and Nebraska State Fairs, 1909. Among the good sows bred to B. & C's Col. are sired by Crimson Wonder Again, Red Wonder, Model Top, Proud Advance, Prince Wonder, Helen's Ohio Chief, Valley Chief, King To Be and others. Sows sired by B. & C's Col., Col. S., J. D.'s Improver, Buddy K. IV., Red Wonder, Prince of Cols., King of Cols. II., King of Cols. and others are bred to Crimson Wonder III. Messrs. Baxter & Comer have succeeded in getting an offering that compares favorably with the boars which they are using. This means they have the best offering they have ever listed for a public auction. It is not necessary to say that you will get a square deal here, as everyone knows that. Few opportunities present themselves to the buying public like this. Boars the equal of those to which these sows are bred are scarce. Too few men realize the value it adds to a sow to have her mated with a boar like B. & C's Col., Crimson Wonder III. or McNeil's Model. Our advice would be to attend this sale if possible and if not send a bid on some of these good sows. You yet have time to get a catalog. Bids sent to Mr. Carlos C. Palmer, Homestead representative, in care of Messrs. Baxter & Comer, Pawnee, Ill., will receive proper attention. Their announcement appears on page 62. This sale follows that of Mr. Ernest Pancake, at Ransom, Ill., on January 11th, and the connections are good.

PANCAKE'S BRED SOW SALE—LAST CALL.

We want to impress upon your mind that next Tuesday, January 11th, is the day of Mr. Ernest Pancake's great brood sow sale. The sale will be held at his farm near Ransom, Ill. Mr. Pancake has had several very good offerings, but in the opinion of the writer this is the best one he has ever made from his noted herd. Mr. Pancake's Durocs are known the world over as Durocs of quality. His success in the breeding business is largely due to his seeing the value of a good sire. When he sees a boar he likes better than the one he is using he buys him

regardless of cost, but we may say right here that he started to buy them so good that he has seen very few that looked better to him. Take Prince Wonder for instance. He was considered by many good judges the best individual boar of his time. As a sire he had few equals. A number of his get are included in this sale and this will be the last opportunity to get a sow sired by this great boar. The sows in the sale will be nearly all bred to King Wonder and Defender, without doubt the two best yearling boars in America. Both are sired by King of Cols., the greatest of Duroc Jersey sires. Defender was first at the Iowa and Illinois State Fairs and grand champion at the International Live Stock Show at Chicago in 1909. King Wonder was never shown, but at the Illinois State Fair, 1909, and was only defeated by Defender. This great pair of boars were junior yearlings this year and at Springfield they weighed over 825 pounds each. With this immense size they were full of quality. Do not miss getting a sow bred to one of these boars. Raise your own prize winners next year. A few of the sows are bred to Ransom Chief, the great breeding son of Ohio Chief and Helen Blazes III. As to the sows there is a litter mated to Prince Wonder, daughters of Proud Advance, Stuart's King, B. & C's Col., the 1909 grand champion; Inventor, Perfect Col., Col. S., High Notcher, The Lad For Me and many others. There are several gilts out of Helen Blazes III. and sired by Prince Wonder. They are good and bred just like the junior champion boar at the recent International Stock Show. It is too late to get a catalog, but you can send a bid by mail or wire to Mr. Carlos C. Palmer, of The Homestead, in care of Mr. Pancake, at Ransom, Ill. See page 62.

The ordinary way to break an egg is to hit against another egg or over the edge of the mixing bowl and let the contents stream over the side of the shell, without considering whether the latter is clean or not, says an agricultural department bulletin. But even if there is no visible dirt, the shell may not be as clean as it seems, for it may have come from a dirty nest or have been untidily handled. Eggs should, therefore, always be washed before breaking.

Beef is so high now that the cow no longer prides herself on having jumped over the noon.

IN THE LIVE STOCK FIELD.

Mr. H. M. McKeen, of Sac City, Iowa, has raised Black Langshan chickens for the past eleven years. Last November he picked the largest of his young birds and had Judge Elliott score them. They made an average score of 93 1-13 points. He now has the finest offering of unscored birds that he has ever had, and thinks that he can suit the best breeders in the country this year. See his advertisement on page 33.

FIFTY HEAD SHORT-HORN BULLS FOR SALE.

On page 47 of this week's Homestead we begin the advertisement of the Messrs. Riley Bros., Albion, Neb., who are offering fifty head of choice young Scotch and Scotch-topped bulls for sale. The Riley herd is the largest Short-horn herd in the United States, there being over 400 head now on the farm. At the head stands the splendid bull, Royal Goods, a grandson of Imp, Choice Goods, and he is one of the outstanding bulls today in Nebraska. The boys are offering some good bulls for sale and will sell them singly or in car load lots. Write them for prices and mention The Homestead.

AN IMPORTANT PERCHERON SALE.

An unusually attractive lot of Percherons will be sold at public auction on February 21st, at Waterloo, Iowa, by Messrs. James Loonan and T. F. Glenn. Forty-five mares and ten stallions, imported and American-bred, make up the offering. Included in the good lot of mares are practically twenty head that will tip the scales at 2,000 pounds or better and they are in foal to Superior 40605, a sire of many show-yard winners. At the present time he weighs 2,200 pounds and many of his colts are in the sale. If you are in the market for good, reliably-bred Percherons, keep this sale in mind and write for catalog, mentioning this paper. Further announcements will appear in later issues. Watch for them.

BEERMAN'S DUROC SALE.

On Wednesday, January 19th, Mr. Chas. Beerman, of Webster City, Iowa, will offer for sale at public auction at his breeding farm near that city, thirty head of nicely-bred Durocs of the right type. They are bred to King of Brookside, a good yearling son of A. L.'s Chief, he in turn by I. J.'s Chief, a noted prize winner and sire of prize winners. The dam of this boar was by Tientsin and the cross has resulted in marked improvement of the breed. Others are bred to Gold Prince III, a litter mate to two splendid boars which are being used with much success by Messrs. A. L. Mossman & Son. He is sired by Colonel's Prince and he by Prince of Colonels, dam by A. L.'s Chief. A number are bred to Beerman's Model, one of the good sons of Model Chief and out of an Advance dam. Write Mr. Beerman for catalog as per the announcement on page 50 of this issue and watch for further particulars in our next issue. Kindly mention The Homestead when writing.

PLATTENBERGER'S BIG-BONED DUROCS AT AUCTION.

Mr. R. C. Plattenberger, of Mt. Vernon, Iowa, will sell at public auction on Tuesday, January 18th, Duroc Jerseys that will please the farmer or breeder who is in the market for good, stretchy brood sows that have proven themselves profitable. Mr. Plattenberger has differed from many Duroc breeders in that he has not overlooked the fact that sows to produce big, strong litters must have the size, and in securing size he has lost none of the quality. They are bred to such boars as I Am A Gold Model 91337, admittedly one of the best sons of the champion, Golden Model II, and he gives evidence of making a great sire. Others are bred to Colonel's Ohio Chief 91339, he by Cherry Chief by High Chief by Ohio Chief, and his dam was by King of Colonels, without question, in the minds of careful judges, the greatest boar of his time. A limited number have been bred to Reiger's Kant Be Beat by Kant Improver by Kant Be Beat, and his dam was Model Girl 2d by Golden Model and out of Miss Wonder by Crimmon Wonder. The offering throughout is a strictly good, useful one and Mr. Plattenberger will be pleased to send you catalogs as per his announcement on page 49 of this issue. Kindly mention The Homestead when writing. Bids sent to Mr. Dante M. Pierce will be properly handled.

THE ARP-CLOUSS-CONVERSE RED POLLED SALE.

One of the most important events of the year in Red Polled circles is the forthcoming public sale at Sioux City, Iowa, on January 19th. There will be consignments from such noted herds as Messrs. A. P. Arp, Eldridge, Iowa; F. J. Clouss, Clare, Iowa; and S. H. Converse & Son, Cresco, Iowa. This is a breeders' sale in every way and representative Red Polls of the highest character only are included. Mr. A. P. Arp consigns sixteen head. The majority of these are sired by Nailer or his sons. Nailer has a great record behind him. During his show career he was made champion fourteen times. Not only this, but he is a proven sire of choice individuals. The first-prize get of sire at the great 1909 International was sired by Nailer. Messrs. S. A. Converse & Son are putting in fifteen head. They have long been known as breeders of the highest type of Red Polls. Their many years of experience have been devoted to the upbuilding of the breed and their aim has always been the production of cattle of the choicest individuality and breeding. In buying one of these animals you are getting the fruit of years of experience. You are securing results today that would have taken years to accomplish. Mr. Frank J. Clouss offers a portion of his 1909 show herd. For exceptional merit and show-ring honors this consignment cannot be surpassed. From a circuit, including six fairs, the Clouss herd returned with flying colors. Beginning with the Iowa State Fair, stopping off at Hamline, then carrying the gospel of Red Polled cattle, the great dual-purpose breed, into the West, at Bozeman, Spokane and Seattle, was an unparalleled achievement. Returning from such a trip to win at the International, the greatest show of all, was, indeed, a climax. A portion of this herd makes a tempting offer for this second annual breeders' sale. Most of the young stuff is sired by Logan 13500, in showing records second only to the great Cremona.

Look up the advertisement on page 51 and write Mr. Frank J. Clouss, Clare, Iowa, for catalog, mentioning The Homestead.

COLLIE PUPS FOR SALE.

On page 33 Miss Victoria Saunders, of Manilla, Iowa, is offering a choice lot of Scotch Collie puppies for sale at reasonable prices. Extended pedigree is furnished with each purchase. These are extra choice. Write her at once for further description.

BARGAINS IN POLAND SOWS.

Mr. C. K. Hanson, of Nashua, Iowa, breeder of Poland China swine, is offering forty head of bred sows for sale that will suit exacting buyers. They are strictly of the big-boned, lengthy type, and are bred along the lines that have given to the breed its most profitable specimens. Neither quality nor prolificacy has been overlooked and the sows are certain to prove valuable investments for those who may purchase them. Many of them are sired by Napoleon Chief 84169, a production of the noted Peter Mouw herd, sired by Chief Price 61861 and his dam was Wonderful 178902 by Surprise Wonder 4th. This boar weighed 1,000 pounds and has given to his offspring the strong characteristics—quality, bone, size, style and finish—that are demanded by pork producers. The sows are bred to the good fall boar, Corn Belt Expansion 153155 by King Dido 86645 by Expansion 57691, dam D's Ideal 339936. This boar is a strong, vigorous fellow, with unusual scale and good feet and legs, wide loin with strong back and the cross of Napoleon sows mated with him should result favorably. If in the market for Poland China sows bred to farrow in March and April, write Mr. Hanson as per the announcement on page 47 of this issue, mentioning The Homestead for prices and descriptions.

WALTEMEYER BROS.' GOLDEN MODEL II. SALE.

The record made by Messrs. Waltemeyer Bros., of Melbourne, Iowa, on their noted boar, Golden Model II., and his get, at the Iowa and Nebraska State Fairs and Interstate Fair at Sioux City this year, demonstrates the wisdom of their selections in laying the foundation for a successful Duroc breeding establishment. In making up their offering to be sold at public auction on Monday, January 17th, they have included nothing but what they would willingly add to their own herds were they the purchasers rather than the sellers. The get of Golden Model II. won twenty-six ribbons at the fairs mentioned above and he was second at the Iowa State Fair in the strongest show of aged boars seen in recent years and had many friends for first place, was first-prize aged boar at the Nebraska State Fair and sire of champion sow and champion sow bred by exhibitor, and at Sioux City he was first and champion and sired the champion sow at this show. Twenty sows included in the offering are bred to Golden Model II. The balance, twenty head, are bred to Protection Colonel, he by Colonel Gladness, a full brother to Prince of Colonels and out of Variety 43d by Puckett's Chief by Ohio Chief, making him a double line-bred Colonel-Ohio Chief boar. He was first-prize senior yearling boar at Des Moines, Lincoln and Sioux City this year. Individually the offering is one of the very best that will be sold at auction this season. A number of the show herd are included in the offering. In our next issue we will give further information regarding this splendid offering, but would advise our readers to get catalogs at once and note the breeding. Bids sent to Mr. M. T. White, Homestead representative, will receive proper attention at his hands. See advertisement on page 50 and mention The Homestead when writing.

OGLE'S BERKSHIRES.

In our issue of last week we called the attention of our readers to the noted boar, Premier Belle's Duke, at the head of the well-known herd of Berkshires owned by Mr. J. W. Ogle, of Ames, Iowa. This boar is a champion and sire of champions and many of his get are included in the offering to be sold at public auction on February 21st. They will be bred to Baron Duke 154th, a boar which Mr. Ogle purchased from Mr. N. H. Gentry, of Sedalia, Mo., especially to mate with the get of Premier Belle's Duke. Regarding this boar Mr. Gentry writes: "Your boar is by Baron Premier 40th 194000, full brother to Baron Premier 3d, first-prize junior yearling boar at St. Louis World's Fair. He is by the champion, Premier Longfellow, and out of Lady Premier 4th, litter mate to Lord Premier. Baron Premier 40th has sired me many great things, including my herd boar, Charming's Duke 40th 114100. The dam of your boar is Duchess 311th, possibly as valuable a sow as is in my herd at this time, and she was sired by Lord Premier and out of Duchess 254th. The latter was an own sister to the champion, Premier Longfellow, and won first as aged sow at the St. Louis World's Fair and was also

one of four animals winning first as get of boar and also as produce of sow, and she was one of the first-prize herd as well as one of the champion herd bred by exhibitor. A whole book could be written of the prizes won by the ancestry of this sow. I don't think there is a boar living that descends from more noted ancestry than your boar, Baron Duke 154th. He certainly ought to prove a great breeder. I showed my faith in him by using him in my own herd. He is a good boar all around and I think his head and ears are my ideal." The letter given above shows conclusively the sort of Berkshires Mr. Ogle is raising and is putting in this sale. Plan to be present sale day and write for catalog, kindly mentioning The Homestead as per advertisement on page 47.

A SUCCESSFUL AUCTIONEER.

With this issue appears the initial announcement of Col. J. L. McIlrath, of Grinnell, Iowa, one of Iowa's successful live stock auctioneers. Many Homestead readers are familiar with the excellent work which Colonel McIlrath is doing for his customers. He is thoroughly posted on the individual merit and blood lines of the prominent breeds and his courteous treatment of all has enabled him to secure best values for his customers. Those of our readers who contemplate holding public sales will do well to write Colonel McIlrath for dates. His terms are reasonable and he is a conscientious worker under all circumstances. Kindly mention The Homestead when writing. See advertisement on page 47.

DAN CLARK'S RED POLLED DISPERSION SALE.

In dispersion sales only do buyers have an opportunity to secure at their own prices many animals which have been selected with great care as foundation stock and have, previous to a sale of this character, been absolutely reserved for use in the herd. Such is the case with the offering of Red Polled cattle to be dispersed by Mr. Dan Clark, at Cedar Falls, Iowa, on Friday, January 14th. This herd is one of the strongest of the breed. Beef and milk qualities have been maintained with great care in the herd and the excellence of the offering is certainly a great tribute to Mr. Clark's ability as a breeder of strictly high-class cattle. The show herd, which has been successfully shown at the Iowa, Illinois and Minnesota State Fairs and the International this year, is included. The many times champion bull, Midnight, and the champion bull, Durock, are listed, and the breeder of Red Polled cattle who is in the market for a herd bull will find in these two bulls sires that are fit to head the strongest herds of the country. It is an opportunity seldom given and should be appreciated by discriminating buyers. The females are an unusually attractive lot, representing the most fashionable families of the breed, while the bull consignment is one that will suit those who wish to strengthen their herds. Write Mr. Clark for catalog, kindly mentioning The Homestead as per the announcement on page 51 of this issue. Were it not for the fact that Mr. Clark has had to leave the farm on account of continued sickness in his family, the herd would not be dispersed at this time. The herd is in good breeding shape and the large number of calves at foot are evidence of its prolificacy. Plan to be present on Friday, January 14th. The sale will be held at the breeding farm, one mile south of Cedar Falls. Remember the date.

GOODENOUGH'S HAMPSHIRE SWINE SALE.

An event that should attract the attention of every lover of the belted hog is the public sale of bred sows to be made by Mr. A. L. Goodenough, of Morrison, Ill., on January 29th. Mr. Goodenough has shown many prize winners at the leading state fairs. At the Illinois State Fair, 1909, he won fourteen ribbons in sixteen classes, including grand champion boar and sow. This is, indeed, an enviable record and from such a herd is the place to buy your breeding stock. The reserve champion sow at the Illinois State Fair, 1908, will be sold, as will several of her daughters and sisters. Several daughters and sisters of Beauty's Best, the grand champion sow at the same show, will be sold. These sows and gilts are sired by such boars as Long John 811, champion boar at the Indiana State Fair, 1907; Legal Tender, champion at the Illinois State Fair, 1906 and 1908, and Bon Bon Beauty, the first-prize junior yearling boar at the Illinois State Fair, 1908. A number of the sows are bred to Bon Bon Beauty. A representative of The Homestead recently looked over this offering and can truthfully say that it will compare favorably with any offering of any breed to be made this year. Mr. Goodenough is a natural born hog raiser and looks after all the little needs of his herd, which accounts largely for his great success. Another thing, he bought only the best for his foundation and his herd shows it. He is one of the

breed's strongest supporters and deserves the support of breeders, as there is no good breeder but what can use a sow of the quality that will sell in this sale. The catalogs can be had by writing to Mr. A. L. Goodenough, Morrison, Ill., mentioning The Homestead. Parties who cannot attend the sale can send bids to Mr. Carlos C. Palmer, Homestead field man, in care of Mr. Goodenough, and they will be handled properly. See advertisement on page 47.

NAUMAN'S DUROC SALE.

An offering of forty head of richly-bred Durocs has been selected with great care by Mr. David Nauman, of West Liberty, Iowa, for his public sale on Monday, January 17th. This gentleman is one of the oldest breeders of Durocs in the middle West. He has held many sales and the evidence of his work as a breeder is the fact that many of his best buyers at each successive sale have been former customers. Of the forty head cataloged, six are yearlings and the balance are gilts. The yearlings—five of them—are granddaughters of Bnddy K. IV, and tip the scales at from 350 to 450 pounds and they have been fed for practical purposes and not stuffed for sale. The spring gilts are a uniform lot, of even conformation and are mainly the get of Nebraska Chief, he by the champion, Red Knight. Others are by Double Wonder, the boar selected by Messrs. Johnston Bros. & Newkirk to cross on the get of the champion, Model Chief II.; King of West Liberty by Golden Rule, the boar which has sired more winners in the boar classes at the Ohio State Fair for the past three years than any other boar; King Improver by J. D.'s Improver, the sire of McNeil's Model, the sensational prize winner and sire of prize winners. The offering is bred to Peachie Commodore, a grandson of the great Commodore. This boar won first in Illinois class and second in open class at the Illinois State Fair, 1909, and was selected by Mr. Nauman to head his herd after he had looked over a number of the prominent winners at the leading state fairs. A number of the gilts are bred to Wonder Boy, a great pig of strictly show-yard conformation, sired by Double Wonder and out of Model Lady by the champion, Model Chief II. This boar gives promise of making one of the strong specimens of the breed and sows bred to him should be in good demand. Write Mr. Nauman for catalog as per the announcement on page 50 of this issue, mentioning The Homestead, and arrange to be present sale day.

IAMS' HORSES.

(Continued from page 19.)

tion block" as the last resort. And, Mr. Ikey, no first-class stallions or mares are ever sold by "peddlers" or on the "auction block." Iams guarantees to sell you a "better" stallion at \$1,000 to \$1,400 (few a little higher) than are sold to farmers' stock companies at \$2,500 to \$4,000. Imported mares as good as grow, \$700 to \$1,000, in foal—the kind that bring colts that sell at \$500 at six months old. Many first-prize and sweepstakes winners. Iams has reduced the prices on "show horses" \$100 to \$500, each. "It's not because your name is Maud" that Iams tells you in his "ads" of money he will save you. He wants your business; that's why he advertises. He wants you to smile on him with a visit. He will make the "wheels of business" go round. Iams can place \$1,500 insurance on his stallions. He is an "easy" man to do business with, and his horses are so good they sell themselves. You say, "Why can Iams sell better horses at half the price of others?" Iams buys and sells every stallion himself at his home barns. He buys stallions by "special train-load" 200 at a time. He speaks the languages, saving 30 per cent. Iams is not in the "stallion trust," saving you \$300. He pays no "slick salesman" \$1,000 to sell you a fourth-rate stallion. He gets busy himself and sells more stallions than any ten men in the United States. He does not hire fifty horse salesmen; he sells every stallion himself. He has no two to ten partners to share profits with. He pays spot cash for his stallions, owns his farms, barns, stocks and stallions. He sells stallions by "hot advertising" and having the goods to make every statement good. Iams sells stallions so good that they do not need a "slick peddler" or the "auction block" to sell them. Iams will save you \$1,000 or more in middleman's profits. All Iams' "show horses" and "pets" are for sale. None reserved. You won't get away from Iams with money or bankable notes. He has his "selling clothes" on daily. Sixty per cent of Iams' horses sell at \$1,000 to \$1,400 and 30 per cent a little higher. Imported mares, the best in the land, sell at \$700 to \$1,000. "Special prices" made at my barns only on one or a bunch of horses. Iams' guarantee is backed by a "half million dollars."



GROUP OF YOUNG BROOKMONT HEREFORD BULLS.

The bulls above illustrated are the kind bred at the Brookmont Farm of Mr. A. E. Cook, at Odebolt, Iowa, as advertised on page 51 of this paper. An especially strong consignment of bulls goes into the sale there mentioned.

Dates Claimed for Live Stock Sales.

DUROC JERSEY SWINE.

Jan. 17, Waltemeyer Bros., Melbourne, Ia.
 Jan. 17, D. Nauman, West Liberty, Iowa.
 Jan. 18, G. W. Hockett, Mauney, Iowa.
 Jan. 18, R. C. Plattenberger, Mt. Vernon, Ia.
 Jan. 19, Chas. Beerman, Webster City, Iowa.
 Jan. 19, S. L. Hopper, Neola, Iowa.
 Jan. 20, J. O. Gates, Sheldon, Iowa.
 Jan. 20, R. J. Harding and W. A. Rankin, Carson, Iowa.
 Jan. 21, J. D. McDermott, Wiota, Iowa.
 Jan. 24, T. W. Stoner & Son, Henry, Ill.
 Jan. 25, Stansell & Matern, Henry, Ill.
 Jan. 25, C. E. Veak, Essex, Iowa.
 Jan. 26, R. C. Veener, George, Iowa.
 Jan. 26, S. J. Madison, Nevinville, Iowa.
 Jan. 26, W. R. Hainline, Blandinsville, Ill.
 Jan. 27, Sexsmith & Strong, Greenfield, Ia.
 Jan. 27, C. A. DeVaul, Inwood, Iowa.
 Jan. 28, H. S. Allen, Russell, Iowa.
 Jan. 28, Edwin Hummer, Iowa City, Iowa;
 C. R. Mills, Central City, Iowa; Patten & Morris, Springfield, Iowa, at Cedar Rapids, Iowa.

Jan. 31, Olson Bros., Woodward, Iowa.
 Feb. 1, John H. Tryon & Sons, Lyons, Neb.
 Feb. 1, W. R. Bennethum, Madrid, Iowa.
 Feb. 1, Iseubarger Bros., Battle Creek, Ia.
 Feb. 1, Geo. Schmal, Sutton, Neb.
 Feb. 2, F. B. Butterfield, Ankeny, Iowa.
 Feb. 2, Thomas Gossard, Ponca, Neb.
 Feb. 3, Edmonds, Shad & Co., Kingsley, Ia.
 Feb. 3, Geo. H. Purdy, Mason City, Iowa.
 Feb. 4, H. L. Cantine, Quimby, Iowa.
 Feb. 7, Whitehall Farm, Yellow Springs, O.
 Feb. 7, John Goddard, Harlan, Iowa.
 Feb. 8, S. E. Fakle & Sons, Prophetstown, Ill.
 Feb. 8, Watt & Foust, Dayton, Ohio.
 Feb. 8, S. W. Stewart, Kennard, Neb.
 Feb. 9, Henninger Bros. & Smith, Geneseo, Ill.
 Feb. 9, O. S. Larson, Logan, Iowa.
 Feb. 9, Ira Jackson, Tippicanoe City, Ohio.
 Feb. 9, J. B. Davis, Fairview, Kan.
 Feb. 9, C. E. Walden, Washta, Iowa.
 Feb. 10, Geo. B. Buck & Geo. L. Miller, Sunny Hill, Ill.

Feb. 10, S. E. Merton & Co., Dayton, Ohio.
 Feb. 11, Mahan Bros., Osborn, Ohio.
 Feb. 11, O. E. Osborn, Weston, Iowa.
 Feb. 11, E. J. Brown, Osceola, Neb.
 Feb. 12, A. F. Hager, Avoca, Iowa.
 Feb. 17, Frank Elder, Green, Kan., at Clay Center, Kan.
 Feb. 17, A. W. Lamb, Albion, Neb.
 Feb. 18, A. R. Barnes, Petersburg, Neb.
 Feb. 21, W. C. Cameron, Herman, Neb.
 Feb. 22, R. L. Wilson, Chester, Neb.
 Feb. 23, G. Van Patten, Sutton, Neb.
 Feb. 24, Bardwell & Barnard, McHenry, Ky. (Sale at Louisville, Ky.)
 Feb. 24, Geo. Briggs & Son, Clay Center, Neb.
 Feb. 25, Con McCarthy, Henderson, Neb.
 Feb. 26, T. J. Link, Winterset, Iowa.
 Mar. 9, Lien Bros., Platt, S. D.

SOUTHWESTERN NEBRASKA DUROC SALE CIRCUIT.

Jan. 25, Frank Alldritt, Friend, Neb.
 Jan. 26, Wm. M. Sandstead, Holdrege, Neb.
 Jan. 27, T. J. Current, Hildreth, Neb.

REPERT'S WESTERN SALE CIRCUIT.

Feb. 14, E. Z. Russell, Blair, Neb.
 Feb. 15, M. S. Moats, Missouri Valley, Iowa.
 Feb. 16, C. W. Huff, Mondamin, Iowa.
 Feb. 17, Jno. R. Tupper, Woodbine, Iowa.
 Feb. 18, W. L. Hull, Logan, Iowa.
 Feb. 19, E. B. Ryan, Neola, Iowa.

POLAND CHINA SWINE.

Jan. 18, J. O. James, Braddyville, Iowa.
 Jan. 19, Mastodon Poland Chinas, W. W. Wheeler, Harlan, Iowa.
 Jan. 19, N. B. Freeman, Kearney, Neb.
 Jan. 20, J. O. Thompson, Cambridge, Iowa.
 Jan. 22, Robert A. Schug, Coleridge, Neb.
 Jan. 24, G. W. Seifrit, Lucas, Iowa.
 Jan. 24, Thompson Bros., Indianola, Neb., at Central City, Neb.
 Jan. 25, J. H. Wintermute and Fred Rood, Plockton, Iowa.
 Jan. 25, Henry Dorr, Remsen, Iowa.
 Jan. 26, J. A. Stevenson, Mt. Airy, Iowa.
 Jan. 27, Jno. B. Lawson, Clarinda, Iowa.
 Jan. 28, Wigstone Bros., Stanton, Iowa.
 Jan. 29, Wm. Ray & Son, Defiance, Iowa.
 Jan. 29, Davis & Wray, Defiance, Iowa.
 Feb. 1, E. Gritters, Hull, Iowa.
 Feb. 2, W. J. Crow, Webb, Iowa.
 Feb. 3, Farver Bros., Ocheyedan, Iowa.
 Feb. 3, John B. Lawson, Clarinda, Iowa.
 Feb. 3, C. L. Thuirer, Fostoria, Iowa.
 Feb. 3, John H. Fitch, Lake City, Iowa.
 Feb. 4, D. C. Longreau, Florence, Neb.
 Feb. 8, James Cockerton, Whiting, Iowa.
 Feb. 8, F. G. Paul, Marshalltown, Iowa.
 Feb. 9, G. W. Seifrit, Lucas, Iowa.
 Feb. 9, C. W. Phillips, New Sharon, Iowa.
 Feb. 9, Thos. F. Walker, Alexandria, Neb., at Fairbury, Neb.
 Feb. 9, C. W. Phillips, New Sharon, Iowa.
 Feb. 10, W. H. Cooper, Hedrick, Iowa.
 Feb. 10, H. B. Francisco, Hastings, Neb.
 Feb. 11, R. W. Halford, Manning, Iowa.
 Feb. 14, J. H. Hitch, Geneva, Neb.
 Feb. 15, O. N. Remington, Tekamah, Neb.
 Feb. 16, Cavett Bros., Phillips, Neb.
 Feb. 16, Wm. Lentz, Ankeny, Iowa.
 Feb. 17, E. D. Keasy, Wiota, Iowa.
 Feb. 18, C. C. Polly, Whiting, Iowa.
 Feb. 24, Ruebel Bros., Marathon, Iowa.
 Feb. 24, Mastodon Poland Chinas, W. W. Wheeler, Harlan, Iowa.
 Feb. 25, M. P. Haucher, Rolfe, Iowa.
 Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Feb. 26, J. W. Pfander & Sons, Clarinda, Ia.

BERKSHIRE SWINE.

Feb. 12, Fred Divelbess, Logan, Iowa.
 Feb. 15, W. R. Holt, Falls City, Neb.
 Feb. 15, John C. Miller, Harlan, Iowa.
 Feb. 21, J. W. Ogles, Ames, Iowa.

CHESTER WHITE SWINE.

Jan. 26, A. A. Hummer, Keswick, Iowa.
 Jan. 28, A. A. Rogers, Inwood, Iowa.
 Feb. 8, M. J. Desmond, Waterville, Iowa.
 Feb. 24, J. H. Stewart, Dickens, Iowa.

DUROC JERSEYS AND POLAND CHINAS.

Feb. 4, R. A. Jeffers & Son, Rock Rapids, Ia.
 HAMPSHIRE SWINE.

Jan. 29, A. L. Goodenough, Morrison, Ill.

SHIRES AND PERCHERONS.

Jan. 20, A. T. Guthrie, Newton, Iowa.

JACKS AND JENNETS.

Mar. 1 and 2, L. M. Monsees & Sons, Smithton, Mo.
 Mar. 3, Petty Bros., Sedalia, Mo.

SHROPSHIRE SHEEP.

Jan. 20, A. T. Guthrie, Newton, Iowa.

Dates Claimed for Live Stock Sales.

SHORT-HORN CATTLE.

Jan. 20, Closing-out sale, H. R. Ryan, Sioux City, Iowa, sale at South Omaha, Neb.
 Jan. 20, A. T. Guthrie, Newton, Iowa.
 Feb. 9-10, C. R. Steele, Ireton, Iowa.
 Feb. 17, G. H. Burge, Mt. Vernon, Iowa.
 Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Mar. 15, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 April 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
 Apr. 28, Henry H. Knper, Humboldt, Neb.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 16, N. A. Lind, Rolfe, Iowa.

ABERDEEN ANGUS CATTLE.

Jan. 20, J. O. Thompson, Cambridge, Iowa.
 Mar. 10, M. H. Donohoe, Holbrook, Iowa.
 Mar. 11, Wm. Cash, Williamsburg, Iowa.
 Mar. 16, Breeders' sale, M. A. Martin, Mgr., Wall Lake, Iowa.
 Mar. 17, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 May 31, H. J. Heaa, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 7, James Williams, Marcus, Iowa.
 June 8, Stanley Pierce and John Evans, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Iggo, Palmyra, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 20, C. M. Russell, Carroll, Iowa.

HEREFORD CATTLE.

Jan. 26, A. E. Cook, Odehott, Iowa.
 Jan. 31, D. S. O'Leary, Iowa City, Iowa, sale at West Liberty, Iowa.
 Feb. 10, Dispersion sale, Table-backed Herefords, W. W. Wheeler, Harlan, Iowa.
 Mar. 9-10, combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 Mar. 16, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.

RED POLLS.

Jan. 19, Frank J. Clonaa, Clare, Iowa, and A. P. Ard, sale at Sioux City, Iowa.

HOLSTEIN-FRIESIAN CATTLE.

Feb. 8-9, Henry C. Glissman, Omaha, Neb., sale at So. Omaha, Neb.

ANGUS CATTLE AND P. C. BROOD SOWS.
 Jan. 20, J. O. Thompson, Cambridge, Iowa.

PERCHERONS.

Feb. 8-9, H. G. McMillan & Sons, Rock Rapids, Iowa, sale in Sioux City, Iowa.
 Feb. 17, James Looan and T. F. Glenny, Waterloo, Iowa.

DRAFT AND HARNESS HORSES.

Feb. 1, 2, 3, 4, Breeders' Sale Company, Bloomington, Ill., C. W. Hurt, Mgr., Arrow-smith, Ill.

SHIRES AND FRENCH DRAFTS.

Jan. 24, Union Wrecking Co., Des Moines, Iowa, at South Omaha, Neb.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 Fred S. Larkin, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address 2525 Erskine St., Omaha, Neb.
 A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
 E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Mr. C. E. Walden, of Washta, Iowa, claims February 9th as a date to hold a Duroc Jersey sow sale.

Mr. J. L. Slick, of Lanark, Ill., is advertising some Poland China hogs that will suit the most discriminating buyers. These hogs are bred in the purple and are priced within reach of any good farmer. Mr. Slick is one of our oldest breeders and these hogs are the result of years of careful mating. The advertisement appears on page 60. Look it up and write him at once, kindly mentioning The Homestead.

Poland China breeders should put a circle around February 9th in their calendars. That will remind them that on that date Mr. C. W. Phillips, of New Sharon, Iowa, will sell a consignment of Poland China brood sows that are right up to the top notch of requirements of the breed. They are not only good as individuals, but they carry their high excellence by right of ancestry that has occupied foremost positions in the greatest show rings of America and in breeding circles as well. Additional details concerning this important sale will appear in later issues of The Homestead.

The combination sale of Poland China hogs and Aberdeen Angus cattle which Mr. J. O. Thompson will hold at his farm close to the depot at Elwell, Iowa, January 20th, will include thirteen head of most excellently-bred cattle. Of first interest is the three-year-old herd bull, Floretta's Ito. This fellow has a magnificent pedigree. He is a son of the noted show bull, Prince Ito 2d, and his dam was Floretta of Cherokee, tracing back to Gay Lad, Jim Jams and others of wide note. Five young bulls and two heifers are of his get. This bull possesses a wonderful length, massive character and were he put in a high condition of flesh would be a most attractive fellow. There will be seven breeding cows, one of them with calf at foot. The consignment is well worthy of the consideration of those who need some good, useful cattle. Owing to the fact that so few of them are included in the sale they will undoubtedly go at low figures. All are recorded. For further particulars get a catalog, for

which address Mr. J. O. Thompson, Cambridge, Iowa. See page 50.

Mr. A. A. Rogers, breeder of Cheater White hogs, at Inwood, Iowa, makes a change in his advertisement on page 59 which must be of interest to those who expect to make purchases of brood sows of that breed. He advises us that he is all sold out of boars and that he had demand for many more than he was able to supply. He announces the closing-out sale to take place on January 23th, which will include twelve yearling sows that are the tops of last year's herd, and thirty-five carefully selected gilts. These, he says, are a very choice lot, and will bear out the highest recommendations. For catalog giving additional details, write to Mr. A. A. Rogers, Inwood, Iowa.

The advertisement of Messrs. E. H. Knickerbocker & Son, of Fairfax, Iowa, will be found on page 55. This firm are importers and breeders of Percherons and Belgians and have for sale both imported and home-bred stallions and mares. They keep on hand a number of excellent specimens of both breeds, sell at reasonable prices and are pleased to show their stock at all times. Fairfax is located on the main line of the Chicago & Northwestern railway, a few miles west of Cedar Rapids, and also on the Ottumwa branch of the Chicago, Milwaukee & St. Paul. The barns are less than a block distant from the Northwestern depot, so that those who wish to visit the place may do so with scarcely any loss of time.

This issue contains an announcement of the Richmond Guernsey herd, at Whitewater, Wis., which should interest every breeder of Guernseys living in the corn and dairy belt. The owners, Messrs. Ben Clark & Son, are offering a limited number of yearling bulls for sale. These were sired by the great bull, Glenwood Stranford 9386, a son of Stranford's Princess AR199 (725 pounds of fat) and a half-brother to Dairymaid of Pinehurst, the leader in the Iowa dairy cow contest. One of the grandsires of all the young bulls offered for sale by Messrs. Clark was Glenwood Boy of Haddon, known to be one of the best bulls ever used in the East. The dams of these bulls are all good cows sired by such bulls as King Coral 5238 and Captain Robbie 7146. All stock sold by the proprietors of Richmond are guaranteed to be free from tuberculosis and to produce offspring if being given reasonable care.

Mr. H. W. Miller, of Peterson, Iowa, advertises on page 60 that he has for sale six tried Poland China brood sows as well as twenty fall pigs. The latter he will sell at from eighteen to twenty dollars each. They are the get of Maid's Longfellow and Choice Chief Price. Maid's Longfellow measures seventy-two inches in length, sixty-nine inches in heart, seventy inches in flank, has eleven-inch hock and weight 675 pounds. These sows have been bred to Maid's Longfellow and King Leader. King Leader is a ten-months-old pig that weighs 320 pounds. Mr. Miller's herd contains blood from such breeders as Peter Mow, John Miller, W. W. Wheeler, etc., and includes the breeding of Wonder 4th, Big Bone, Longfellow Jr., Large Wonder, Choice Chief Price, King Perfection 2d, Model Nelson, Victor Price, Columbia Chief 2d, King Mastodon and Mastodon Chief. For additional information concerning this stock write to Mr. H. W. Miller, Route 2, Peterson, Iowa.

Under date of December 27th, Messrs. J. Crouch & Son, proprietors of the La Fayette Stock Farm, at La Fayette, Ind., write: "We wish to announce a recent sale of two imported stallions to parties in Iowa. Both were draft sires of the highest quality. One of the buyers is Mr. G. W. Grigsby, of Madrid, Iowa, who has for years been closely identified with the breeding of good live stock in his section. He selected a massive Belgian horse with bone, muscle, great weight and snappy quality. This is a hay horse with black markings and an individual that it would be hard to beat. He came from one of the foremost breeders of Belgium and the farmers and breeders in and around Madrid are fortunate in having the opportunity to breed to such a specimen of the Belgian horse. The name of this horse is Bon Espoir de Solre 4072 (31720). The other purchaser was Mr. M. J. Nelson, of Cambridge, Iowa, who selected a black imported Percheron stallion, Guy Lussac (69946) 61947, a three-year-old that has few equals for his age. Mr. Nelson came here to buy a horse that would be as good as any now to be found in his state and we believe that he secured just what he wanted. This horse has an exceedingly heavy bone, great weight and a wonderful amount of action for a horse so large and massive, yet withal his proud way of going has a splendid disposition, for which the Percherons are so noted. While the state of Iowa is famous for its good horses, we believe those just mentioned will be valuable additions and render still further assistance in promoting draft horse interests." It is well known that the Crouch stables contain as good specimens of the breeds named as can be found anywhere. Their advertisement will be found on page 55. They will be pleased to furnish any further information concerning the horses they have for sale. If in need of a horse, write to Messrs. J. Crouch & Son, La Fayette, Ind.

POLLED DURHAMS FOR SALE.

On page 59 of this week's Homestead will be found a change of copy for Mr. Wm. Barrans, of Lenox, Iowa, the well-known Polled Durham breeder. He is now offering to sell a number of well-bred Polled Durham bull calves, also a few choice cows and heifers, at prices that will be satisfactory to the buyers. Write Mr. Barrans about these at once and please mention The Homestead.

GOOD POLAND CHINA SOWS FOR SALE.

Those of our readers who want to buy some good Poland China sows at private sale will be interested in the advertisement of Messrs. Williams Bros., of Villisca, Iowa, on page 60 of this week's issue. They have one of the very best herds in the state and they are going to sell their surplus sows this year at private treaty. That means that they are not going to make a public sale and therefore they are making prices on these sows that will move them. Those of our readers who want some good sows can depend on what Messrs. Williams Bros. send them. There is no more reliable firm in the state and you can depend upon what they tell you.

When writing them kindly mention The Homestead.

PODENDORF'S BREED SOWS.

On page 60, Mr. A. J. Podendorf, of Logan, Iowa, makes change of his advertisement and he is now offering a splendid lot of Poland China bred sows and gilts for sale of the big-type, big-boned kind and at prices that anybody can afford to buy. He has a good bunch of fall yearling sows and spring gilts bred to his splendid big-type, big-boned boar, High Price, and they are strictly all right. Write Mr. Podendorf about these sows at once and kindly mention The Homestead. If you order right away you will be able to get some of the very choicest that he is offering for sale.

DORR'S POLAND CHINA SALE.

Mr. Henry Dorr, of Remsen, Iowa, presents his compliments to readers of The Homestead on page 48 and announces his annual public sale of Poland China brood sows. He is going to sell fifty head in all, ten of them being fall sows and the remainder spring gilts. Mr. Dorr's herd is one which has a record of supplying as good individuals of the breed as could be found in any herd in his section of the state. He has kept up with the times in the matter of blood lines and has endeavored to supply his customers with the type of animals for which they called. The fall sows included in this sale are daughters of Dorr's Hadley and King Dodo, while the gilts are by Evergreen Model, Royal Duke and Longfellow. These all trace to strains of blood that have been prominent winners at the Iowa and Nebraska State Fairs and that have been productive of growthiness and size. These sows will have been bred to Dorr's Expansion, Pawnee Lad 2d, Big Price and Exception. Mr. Dorr advises us that he is consigning a highly uniform lot of sows to this sale and that they have as much size and as good length as in other years and that, in addition, they have good bone, good color and stand right up on their toes. The sale will be held at Mr. Dorr's farm near Marcus, Iowa, on Tuesday, January 25th. Catalogs are now ready and may be had on application to Mr. Henry Dorr, Remsen, Ia.

LAST CALL FOR FESSEMEYER'S POLAND CHINA SOW SALE.

On January 15th, at Clarinda, Iowa, Mr. H. Fessmeyer will make his annual Poland China brood sow sale, and he is putting up one of his characteristic offerings that annually come from this herd. The offering comprises thirty head of very choice brood sows and eight head of fall pigs. The spring gilts that he is selling in this sale are all that could be desired—having the size and the finish that breeders so much desire, and the most of them are sired by Big Price, one of the best breeding sows by old Pawnee Lad. Mr. Fessmeyer has had a number of brood sows in his herd that have become quite famous among Poland China breeders, because of their ability to produce high-class stuff. Among these is the great sow, Nelson Superior, that has repeatedly produced boars and gilts that have topped his sale. Matchless Giantess, Giantess 2d and Giantess Again are all well-known brood sows in this herd and all of these are represented by choice gilts in this offering. The two-year-old brood sow, Pawnee Lady 2d, bred to his splendid yearling boar, Chieftain, is a sow that should be looked after by the best breeders. The Peter Sterling sow, Damask, is another good money maker and no man who buys her will go wrong. She is in good breeding condition, but not in high flesh. As a money maker, however, this sow has been one of the mainstays of the herd. It will pay any Poland China breeder who wants brood sows to attend this sale. Write for catalog at once and kindly mention The Homestead. Send a bid to Col. Harve Dnnan on sale day and it will be properly cared for. See page 60.

LAST CALL FOR THE GEO. H. MILLER SHORT-HORN SALE.

A splendid opportunity to buy some good Short-horn cattle will be offered at Harlan, Iowa, on Tuesday, January 11th, when that old reliable breeder, Mr. George H. Miller, makes a public sale. Mr. Miller has been one of the older breeders of Short-horn cattle in Shelby county and he has built up one of the good and useful herds in the western part of the state. Mr. Miller's family has grown up and are now doing for themselves, and not wishing to battle with the help problem he has decided to reduce his herd. The sale offering comprises forty-four head—thirty-two cows and heifers and twelve bulls, five of the latter being Scotch hells, and one of these is his present herd bull, Lord Champion 2d. There will be sixteen head of calves at foot and all the other females that are old enough will be bred. Many of the cows that will be offered are sired by his former Duchess of Gloster bull, Gloster Bud, and he was a sire of short-legged, blocky, beefy type of cattle. He has made a good reputation as a sire in the Miller herd and his get will show for themselves in this sale. Mr. Miller sells several good Scotch cows and heifers, including 58th Duchess of Gloster with a nice heifer calf at foot, and she also has a good yearling bull in the sale. Scottish Queen, another good Scotch cow, sells with a nice bull calf at foot by Lord Champion 2d, and she is also the dam of two of the best young bulls in the sale. There are several nice Scotch heifers in the offering and a splendid lot of Scotch-topped cows and heifers, and many of these have calves at foot. There will be twelve head of bulls in the sale and it will be a good place to buy a herd header. Five of these are Scotch bulls—three are Cruickshank Victorias, one Duchess of Gloster and the herd bull, Lord Champion 2d, which belongs to the well-known Sweet Briar tribe. This bull is a son of Mr. Charlie Saunders' noted bull, King Champion, and his dam is a daughter of Imp. Lord Banff. He was one of the top bulls in the Saunders sale two years ago and since that time has stood at the head of the Miller herd where he has proven himself a good sire. He is an all-red bull, short of leg, quite thick and is one of the best sons of his illustrious sire. The three young Victoria bulls that will be sold in the sale are all sired by him, and the Duchess of Gloster bull is sired by Gloster Bud. They are a good, useful lot of well-bred bulls and those who are wanting a herd bull will be able to find them in this sale. Mr. Miller also sells a splendid lot of Scotch-topped bulls in the

offering. Write for Mr. Miller's catalog at once and if you are looking for Short-horn bargains be sure to attend the sale. The sale will be held in the heated sale pavilion at Harlan, Iowa, on January 11th. Kindly mention The Homestead when writing for catalog. See advertisement on page 52.

STEPHENSON'S POLAND CHINA SALE.

Mr. J. A. Stephenson, of Mt. Ayr, Iowa, will hold his annual public sale of Poland China sows on Wednesday, January 26th, as noted in the advertisement on page 59 of this issue. Mr. Stephenson puts into this offering a most excellent lot of sows, nearly all of his own breeding, highly uniform in character, and very strong in bone, foot and size. Forty of these are March gilts and the remainder matured sows. Most of the gilts are by 2d Pawnee Lad, although there are three by Big Hadley 2d and as many by other sires. Second Pawnee Lad is a hog of considerable size, wonderfully strong on foot, wide, with legs set out on the corners, and a back and boar that are as good as anyone could ask for. Mr. Stephenson made a good selection when he secured this hog to head his herd and the results are proven out in the splendid lot of gilts that go into the sale. Second Pawnee Lad was by Pawnee Lad, he by Klever's Best and he by Happy Perfection. The dam was a granddaughter of Blain's Tecumseh. There is throughout the pedigree a direct line of ancestry reaching to some of the most popular show hogs, as well as best individuals. For several generations they have also shown all the size so much demanded at the present time. His get are very growthy and have a higher percentage of uniform character and strong characteristics than can usually be found on any farm. With the class of brood sows on Mr. Stephenson's farm it is certainly only a matter of a few years until this hog makes a record that will be universally recognized. We urge upon buyers who want size with quality, good feet and strong backs, the importance of attending this sale. There are few consignments equally strong in the points named. It is especially creditable to Mr. Stephenson that he has produced the greater proportion and more valuable ones on his own farm. The dams of these pigs, it goes without saying, are also bred in desirable lines. One of these is Chief's Lady 3d by R's Pawnee Lad, dam Chief's Lady 2d by Longfellow H. She also sells. Three of the gilts are from Anna Price 2d by Pawnee Lad, dam by Black Prince. This sow was bought at the James sale and at the top price of that occasion. Two gilts are daughters of U S Darkness 2d that also sells. She is by U S Standard, he by Standard Chief. Her dam is Darkness 3d by Jumbo. There is a grand lot of high-class breeding in this pedigree. Standard Chief will be recalled as the biggest yearling ever shown at the Iowa State Fair and he was by Chief Tecumseh 3d that for years ranked as a high-class prize winner and a breeder whose record is unequalled. Others of the gilts will be from R's Giantess by R's Pawnee Lad, Big Lady by Big Prospect, Crescent Giantess by Crescent Chief, Faith Giantess by Jumbo, and so on. However, as to details of pedigrees our readers will be better and more fully informed through the catalog, for which address Mr. J. A. Stephenson, Mt. Ayr, Iowa.

J. O. JAMES' GREAT PAWNEE LAD BRED SOW SALE.

One of the sales that has always proved a great drawing card in the state of Iowa is that of Mr. J. O. James, of Bradyville, and he will once again put up a great sow offering on January 18th. The reputation of this herd has been widespread, largely through the great herd boar, Pawnee Lad, that has for several years stood at the head of the herd. We have often said, and we say it again, that a better breeding boar than old Pawnee Lad has not been used in the West in recent years. He has been a boar of great size, and he bred it and quality combined. Some of the best boars in the West today at the head of good herds are sired by Pawnee Lad, and his sows have always been sale toppers in every herd where they went. Thirty-six head in this sale are either daughters or granddaughters of his and eight or ten sows in the sale are bred to him. This certainly should insure the success of this sale, as the quality is as good as the breeding, and the size has long since been one of the characteristics of this herd. Mr. James has for the past two years scoured the country for a boar to follow Pawnee Lad, and he finally secured a good one in Big Ex. 47717, a son of What's Ex. by old Expansion. His dam is Belle Expansion by the Nebraska State Fair winner, Bell Metal, and Mr. James expects great things from the use of this boar. Quite a number of the sows in the sale are bred to him. He is also using Max Dude (sweepstakes boar at the Nebraska and Colorado State Fairs in 1907) and ten head of sows are bred to him. He is also using Big Hadley 2d, a son of Mr. John Blain's noted Big Hadley, and he also has some good daughters of his in the sale. No. 1 in sale is Lady Longfellow 11th, a daughter of Mr. Fred Rood's old boar, R's Claud. She is a trifle thin, but has been one of the great brood sows in his herd. She is bred to Pawnee Lad for an early litter. Pawnee Belle is another good brood sow and is a daughter of Expansion 3d. This sow topped the John Blain sale at the time Mr. James bought her and she now goes in bred to Pawnee Lad. Nos. 3 and 4 are Lady Jumbo and Belva, both daughters of Mr. Jess Wintermute's famous big-type boar, Jumbo, and both of these are bred to Pawnee Lad. Rose Wonder is a good fall yearling out of Rose Perfection, the sow that topped his sale two years ago, and she is also the dam of the McClarnon herd boar, Big King. No. 7 is a cracking good fall sow, a great-granddaughter of old Lad, and she goes in bred to Pawnee Lad. Nos. 9, 10, 11 and 12 are splendid sows, all sired by Big Hadley 2d, and all of these are bred to Max Dude. No. 9 of these is the making of a good show prospect. No. 13 is a cracking big fall gilt sired by old Pawnee Lad and bred to Big Ex. No. 26 is a splendid spring gilt by Pawnee Lad and out of Big Marie, one of his greatest brood sows, and she is bred to Big Ex. Nos. 31 and 32 are also good gilts by Pawnee Lad and out of Anna Price 2d, and both of these are bred to Big Ex. The James offering is a good one from one end to the other and breeders who want something that will add a little luster to their herd should write for catalog and be sure to go to the sale. Mr. C. C.

Carlin, representing this paper, will attend the sale in person and any bids sent to him in care of Mr. James will be properly cared for on sale day. Kindly mention this paper when writing. See page 49.

THE LAST CALL FOR THE NORTHWEST IOWA DUROC JERSEY CIRCUIT.

One of the important Duroc Jersey sow sale circuits of the winter season will be that of the Northwest Iowa, which begins at Messrs. List Bros., Granville, Iowa, on January 11th. Messrs. Alec McCurdy & Son, Alta, Iowa, sell on January 12th; James Williams, Marcus, Iowa, on January 13th; Geo. E. Wall & Son, Cherokee, Iowa, January 14th, and ends with A. Lentz & Son, Pierson, Iowa, January 15th. These breeders are selling a high-class lot of sows and breeders and farmers are cordially invited to attend.

LIST BROS., GRANVILLE, IOWA.

On Tuesday, January 11th, Messrs. List Bros., Granville, Iowa, open up the week for the Northwest Iowa Duroc Jersey Sale Circuit with an offering of forty head of

long bid on this sow. The two-year-old sow, Lady May, a daughter of Savannah Belle's Chief, is also a good proposition and she goes in bred to the same boar. A yearling daughter of old Lafollette also goes in bred to Iowa Notcher. Miss Profit by Bon Bon, Rosebud's Beauty by Dreadnaught, Lady Tolstoy by Royal Laddie are all good sows and all of these are bred to Iowa Notcher. In the gilt line they are selling two by Iowa Notcher, out of Lady May by Savannah Belle's Chief, and these are bred to Sioux Chief, a grandson of Crimson Wonder. Then there are two choice gilts in the sale by Crimson Wonder Jr., a full brother to Glendale Critic, Brighton Wonder and other noted boars. Both of these gilts are bred to Iowa Notcher. They are also selling a few good gilts by Guthrie Chief, out of a Lafollette dam. Another good gilt that they will sell is a daughter of King of Colonels Again, and another is by Winning Sensation. The boys are selling a good bunch of sows and they want all the breeders and the farmers to be with them on sale day. If you have not received their catalog already, write for it at once and

Wonder, that heads the Hanks & Bishop herd, and she is a better sow today than at any other period of her career. She goes into the sale bred to one of the Colonel boars. They also sell some splendid daughters of the great Achiever in this sale, also daughters of old Kruger, Buddy K. IV, Model Chief 2d, King Solomon, Prince of Colonels, Fogg's Colonel and Finch's Colonel. Messrs. McCurdy & Son sold a number of sows in their last sale bred to Prince of Colonels 2d, and we have seen quite a number of his pigs from these same sows in other herds throughout the West and they have been uniformly good. There will not be a cull sow in their sale. This firm deserve the best support of the breeders and the farmers throughout the West. No man in the West has been a better supporter of the sales than has been the senior member of this firm. We therefore urge the boys to come out and assist them by their presence at least. If you have not received their catalog, be sure to write for it at once. Address Messrs. Alec McCurdy & Son, Alta, Iowa, and kindly mention The Homestead when doing so. Send a bid to our Mr. M. T. White, Homestead representative, in their care, and it will be attended to on sale day. See advertisement on page 63.

JAMES WILLIAMS, MARCUS, IOWA.

On Thursday, January 13th, that veteran breeder, Mr. James Williams, Marcus, Iowa, will offer Duroc Jersey breeders an opportunity to pass upon the best lot of brood sows that has ever been run through a sale ring on his farm. Ten head of the best brood sows on the farm, including two good daughters of Ohio Chief, will be sold bred to the noted boar, Iowa Notcher. There will be daughters of the great boars, King Solomon, Iowa King M., Dreadnaught, Winning Sensation, Prince of Colonels 2d and four daughters of King of Colonels Again in his sale. Royal Blossom's Model, a two-year-old daughter of the Iowa State Fair sweepstakes sow, Royal Blossom, is one of his great attractions and she goes in bred to Phallus Perfection, a son of the \$1,500 boar, Phallus, that sold in the Manley & Co. sale. Ohio Pride, a daughter of Ohio Chief with a Nebraska Belle cross, goes in bred to Winning Sensation. Sioux Lady, a daughter of Sioux Brave, first and sweepstakes boar at Sioux City in 1907, sells safe in pig to Iowa Notcher. Crimson Clara, a very large sow and one of the greatest breeding sows he ever owned, is well along to Phallus Perfection. Belle's Tip Top, a daughter of the sweepstakes Nebraska State Fair boar, Hambletonian, and out of a Kant Be Beat sow, sells well along in pig to Winning Sensation. Chief's Fashion is a daughter of Model Chief, is bred to Iowa Notcher, and Golden Beam, a daughter of Ponca Chief by Ohio Chief, whose pigs were the top of his fall sale, will be one of the choice sows in the offering. The gilts are a choice lot and are sired by Iowa King M., Winning Sensation, King Solomon, King of Colonels Again, Prince of Colonels 2d and Cantine's Tolstoy. Get Mr. Williams' catalog at once and then go to the sale. If you cannot be present, then send a bid to our Mr. M. T. White, Homestead representative, and it will be properly looked after on sale day. See Mr. Williams' advertisement on page 63.

Geo. E. Wall & Son, Cherokee, Iowa.

On Friday, January 14th, at Cherokee, Iowa, Messrs. Geo. E. Wall & Son will sell fifty of as good sows as will be sold in the Northwest Iowa Duroc Jersey Sale Circuit. There will be an especially choice attraction in this sale in the way of the herd boar, Model Chief 7th, a son of old Model Chief, out of an Advancer dam. This boar is one of the best sons of Model Chief and he is a boar that any breeder can well afford to own. They are selling the best sows in their herd in this sale, among which is Iowa Belle 2d, a granddaughter of American Royal, and she is bred to Williamsburg Boy, another one of their herd boars, for an early litter. Miss High Tide by Spotless Top Notcher, a grandson of Mr. Henry Allen's old World's Fair boar, Top Notcher Again, goes in bred to Model Chief 7th. The dam of this sow is a daughter of Brighton Wonder. Royal Victoria by American Royal, out of an Albinus dam, is another good sow that will sell bred to Model Chief 7th. Saint Marie, a granddaughter of Top Notcher Chief, out of a daughter of Leo Tolstoy, will farrow a litter early to Model Chief, and Rosetta and Elsie Marie, all very choice sows, will all be bred to Model Chief 7th. Crimson Lady, she by Wonder C., a son of Crimson Wonder, is an excellent sow and she is bred to the same boar. In fact, there are too many good sows in the Wall sale to mention them all, but we will assure you that if you want some good Duroc Jersey sows you will find them in this sale and you will be able to buy them right. When writing for their catalog kindly mention The Homestead. Send your bids to Mr. M. T. White, representing The Homestead, in care of the above firm, and they will be attended to on sale day. See page 63.

A. LENTZ & SON, PIERSON, IOWA.

The last sale of the Northwest Iowa Duroc Jersey Sale Circuit will be that of Messrs. A. Lentz & Son, at Pierson, Iowa, on January 15th. They are putting up an offering that we can highly recommend to the breeders and everybody should make it a point to attend the sale. While it is the last sale of the circuit, it is not by any means the least, and the sows they are selling in this sale are of a high order of individual merit and are bred in the blood of the popular strains of the day. In Violet Blossom, a three-year-old daughter of Proud Advance, they are selling one of the very choice sows of the week. She needs only to be seen to be appreciated and she is bred for an early litter to King Solomon 2d. They are selling a corking good daughter of W. L. A's Choice Goods in this sale bred to King Solomon 2d and another good sow called Rosey Gold Dust is bred to Colonel Scott, a son of Carl's Colonel, the boar that is owned jointly by Messrs. Lentz & Son and Edmonds, Shade & Co. There are several sows in the sale that are bred to Colonel Scott and any one of these will look good in a herd. There are quite a number of yearling and matured sows in this sale and there isn't a poor one in the bunch. The gilts are sired by Lafollette, Advancer's Choice, Ruby Critic, Phallus Model and King Solomon 2d, and if you cannot get what you want among these it will not be the fault of the sows. There is an excellent Ruberta's Jim yearling in the sale bred to Dreadnaught Jr. and there is a good Kentucky sow in the sale

NEXT WEEK'S SALE PROGRAM

Monday, January 10, Duroc Jerseys, Frank Bieth & Son, Millsdale, Ill.

Tuesday,
January 11

Duroc Jerseys, Ernest Pancake, Ransom, Ill.
Duroc Jerseys, List Bros., Granville, Iowa.
Duroc Jerseys, Poland Chinas, Short-horns, Robert M. Young, Cook, Neb.
Short-horns, Geo. H. Miller, Harlan, Iowa.

Wednesday,
January 12

Dairy Cattle, Hazel Dell Dairy Co., Des Moines, Iowa.
Duroc Jerseys, W. M. Putman & Sons, Tecumseh, Neb.
Duroc Jerseys, A. McCurdy & Son, Alta, Iowa.
Duroc Jerseys, Ed. A. Baxter and R. L. Comer, Pawnee, Ill.
Short-horns, W. R. Holt, Falls City, Neb.

Thursday,
January 13

Duroc Jerseys, M. A. Kraschel, Macon, Ill.
Duroc Jerseys, James Williams, Marcus, Iowa.
Short-horns, Sylvanus Haworth, New Sharon, Iowa.

Friday,
January 14

Duroc Jerseys, Fred Steinbach, Yutan, Neb.
Duroc Jerseys, Geo. E. Wall, Cherokee, Iowa.
Duroc Jerseys, Hanks & Bishop, and Drooz & Jenks, New London, Iowa.
Polled Durhams, W. H. Billeter, Carroll, Neb.
Red Polls, Dan Clark, Cedar Falls, Iowa.

Saturday,
January 15

Duroc Jerseys, A. Lentz & Son, Pierson, Iowa.
Poland Chinas, H. Fessenmeyer, Clarinda, Iowa.

well-bred brood sows and they also sell seven or eight head of young Short-horn bulls in the sale, including one Scotch bull. One of the attractions in their sale will be a half interest that they will sell in the great show and breeding boar, Iowa Notcher, and this in itself should be sufficient to attract breeders throughout the West. This great breeding hog needs no introduction to Iowa and Nebraska breeders, as they have not only seen him in the show ring, but they have also been mindful of the high-class stuff he has been siring for the past few years. They sell twenty fall sows, ten head of matured sows and ten choice gilts in this sale. One of their special attractions in the sow line will be Proud Alix II, a three-year-old daughter of Proud Advance. Her dam is Miss Manley by Orion, a line of breeding that has produced so many of our leading show winners. Here is a most excellent sow and her breeding is right and she goes into the sale bred to Iowa Notcher. No breeder need hesitate in sending a good

kindly mention The Homestead. Bids sent to Mr. M. T. White, Homestead representative, in care of Messrs. List Bros., will receive proper attention on sale day. See advertisement on page 63.

ALEC M'CURDY & SON, ALTA, IOWA.

On Wednesday, January 12th, at Alta, Iowa, the Messrs. Alec McCurdy & Son will sell forty head of Duroc Jersey brood sows, and they have drawn upon the very best things they have in their herd for this sale. Their offering this year is practically a tried lot of sows and some of these have been originally purchased at a long price. The major portion of the offering will be bred to Prince of Colonels 2d and Mack's Colonel, two boars that the senior Mr. McCurdy bought after visiting nearly all of the great eastern herds. They are selling a splendid lot of Junior Jim sows in this sale, the best Junior Jim sows we have ever seen. They also sell the great brood sow, May Bloom, the dam of the great boar, Model



German Coach stallion owned by Mr. A. R. Ives, of Delavan, Wis. This horse has proven himself to be as excellent a sire as he is an individual. He is for sale.

sired by Top Notcher 1st, bred to Mackey's King. It is a good offering from beginning to end. Kindly mention The Homestead when writing for catalog and any bids that you send to our Mr. M. T. White will be properly cared for on sale day. See the full-page advertisement in which appears the names of all the breeders who make up this circuit. It is next to the last page in this edition.

SOME GOOD HOLSTEIN COWS AND HEIFERS FOR SALE.

The man who wants to buy some good Holstein cows and heifers should write or get in touch with Mr. C. F. Kirk, of Ponce, Neb., who is offering to sell six or seven well-bred females because of the fact that he is away from home so much and does not care to hire a man to take care of them. These are mostly sired by Sir Piebe Hengerveld de Kol and Gem Pictorie de Kol, two of the very noted bulls of the breed. The cattle are in splendid condition and are excellent milkers. Mr. Kirk says that he will price these cattle right if the buyer will come and take them soon. Write him about them at once and mention The Homestead.

ROOD'S BIG-BONED POLAND CHINAS.

Mr. Fred L. Rood, the well-known breeder of Poland China hogs, Clearfield, Iowa, will contribute eight head of his famous big, smooth sows to the Wintermute sale at Blockton, Iowa, January 25th. Mr. Rood advises us that these sows are as good as he has ever sold, which means that they are as good as the big type can afford. Four of these are granddaughters of the famous old Giantess. One is by Expansion, two are by R.'s Pawnee Lad and one by Big Prospect; all are bred for early litters to a son of King Dodo II., a splendid young son of King Dodo. These are all recorded in the Standard Record, and eligible to any record. All are No. 1 sows, ranging in age from yearlings to three-year-olds, and they are good enough to go into any herd. Particulars in full may be learned by securing a copy of the catalog for which address Mr. J. H. Wintermute, Blockton, Ia. See page 59.

A DAIRY COW SALE.

On page 47 of this paper our readers will find the announcement of a closing-out sale of the entire herd of the Hazel Dell Dairy Co., at Des Moines, Iowa. This has been one of the more successful dairy farms of the city and the herd of cows are those which have been gathered together at great expense, and with the aim to secure the very best. A change of plans on the part of the management now, however, obliges them to sell out the whole lot, and hence this sale, which takes place on Wednesday, January 12th, at the old Redhead farm, one mile east of the fair grounds. Sixty head of high-grade Holstein cows go into this sale, six Jersey cows, one Ayrshire and twenty-two dual-purpose cows. There will also be one two-year-old Guernsey bull and two pure-bred Holstein-Friesian bulls. The Holsteins are practically pure-bred cattle. All of these cattle are comparatively young, a very large proportion being two and three-year-old heifers. All of them are fresh, or will be soon. The scarcity of good dairy cattle throughout the entire country makes this one of the rare opportunities that will present itself this year. Those who attend the sale should take a Grand View car to 32d Street, where they will be met by a conveyance to the farm. For any further particulars write to the Hazel Dell Dairy Co., Des Moines, Iowa.

WINTERMUTE'S BIG POLAND CHINA SALE.

Mr. J. H. Wintermute, of Blockton, Iowa, will hold his annual sale of Poland China brood sows on Tuesday, January 25th, as per advertisement on page 59 of this issue. Mr. Wintermute's public sales in the past have been events of the season in the community in Poland China circles and that which is scheduled to take place on the date named will be no less important than any of the previous ones. It will include fifty head of sows. Ten of these are matured and tried brood sows, ten more fall yearlings and the remainder spring gilts. About 25 per cent of the offering are the property of Mr. Fred Rood, who takes advantage of this opportunity to close out his entire Poland China interests. The aged sows are by Jumbo 81591 and R.'s Pawnee Lad 39941, both of which are noted not only for their own extraordinary size, but for the additional fact that they are producers of size. The fall yearlings are mostly by Big Type, he by Temptation, dam Tecumseh's Daughter by Dorr's Tecumseh; second dam by Columbia Chief. The others are by Jumbo and Dude's Wonder 125269. The gilts are by Jumbo, Big Hadley 2d and 2d Pawnee Lad. They will have been bred to Surprise Tecumseh 13923, Thousand-Pound Prospect and old Jumbo. Surprise Tecumseh is by Miller's Tecumseh, he by Columbia Chief 2d. His dam was Miller's Molly Surprise, she by Surprise Chief, second dam by Chief Price. This is a great, big fellow, having, in fact, all the size that anyone will ask for and with quality enough and general merit that lead his owner to refuse \$200 for him. Thousand-Pound Prospect is another big fellow by Crescent Prospect and tracing to Blain's Tecumseh. Old Jumbo, that has been at the head of the herd for so long, needs little in the way of introduction in these columns. His past record is one which has given him a prominent place in the knowledge of all Poland China breeders. He traces directly on the side of his sire to old Chief Tecumseh 3d, a hog which in his day stood as a show-yard representative of the big hogs of the breed. He is seventy-two inches in length and weighed 850 pounds at the last sale, although he could easily have carried 1,000 pounds. His blood is a very prominent inducement in the offering. A representative of The Homestead who made a personal inspection of the sows that go into this sale is glad to say that they are highly desirable from every point of view, that they have not only size, but quality as well, with all the strong points that have made the great Poland China breed what it is today. They are strong in bone and feet, with good, level backs and if there were anything lacking it is possible that they have not been fed up to the usual point of a public sale offering, but they have not been slighted in any way and the result is that they go into the sale ring in an ideal breeding condition

and one which must satisfy every buyer. Additional details will be given in later issues of The Homestead. In the meantime those who want big Poland China sows that have a lot to their credit should send for a copy of the catalog, addressing Mr. J. H. Wintermute, Blockton, Iowa.

MONDAMIN POLAND CHINAS.

We are pleased to call the attention of our readers to the advertisement on page 60 of the Mondamin herd of Poland China hogs owned by Messrs. Held Bros., at Hinton, Iowa. It will be noted that they are offering for sale both matured brood sows and spring gilts. The latter are the get of their two herd boars, Thicket 2d and Dark Corrector. Thicket 2d descends from Mr. Klever's Thicket, has a line of ancestry that entitles him to careful consideration, and is an individual with real Poland China points that has not many superiors. As a breeder he has also shown a high order of excellence. Buyers who select animals of his blood will certainly be pleased with results. Dark Corrector, while perhaps not the less favorably bred, has perhaps a little more of the size now so much in demand. He is, in fact, a big fellow and his produce have shown the same quality in a remarkable degree. With reference to the cattle the Messrs. Held write in a recent letter, saying: "At our late sale we disposed of eighteen head of bulls, but still have on hand six calves that are eleven months old, several of them from Scotch cows and sired by our great show and breeding bull, Valiant Jr. We also offer for sale a number of cows, some of them with calf at foot and others bred." We are glad to recommend the firm of Held Bros. as being entirely worthy of consideration from every point of view.

THE BILLETER POLLED DURHAM DISPERSION.

On the 14th of January, Mr. W. H. Billeter, of Carroll, Neb., will make a final dispersion of his entire breed of Polled Durham cattle. This will include forty-five head, among them being the herd bull, Orange Marshal, that is also the sire of practically all of the younger things that have been cataloged. This herd is intensely bred in double standard blood. In the selection of the foundation the owner secured nothing but the very best, the low-down, blocky type, and the choicest of breeding. The families represented are Orange Blossom, Missie, Duchess of Gloster and Golden Drop, in which Scotch strains are predominant. The American families are made up of Young Marys, Rose of Sharons, Crocuses and Belinas. The dispersion is made because of the fact that the owner is preparing to move to Canada. It is a matter to be regretted that a herd of this sort should be dispersed, because, as a herd, its influence throughout the country would be of inestimable value. The opportunity is one which will certainly revert to the advantage of farmers and breeders who have a realization of the true value of the cattle that are to be sold. Messrs. John A. Heeren and the Burress Bros. will also consign seven head of cattle. This lot includes their principal herd bull. Mr. Billeter will also dispose of two large, black Percheron stallions, coming three years old. They are described as being of good conformation, heavy boned and of the best of breeding. Mr. Robert Pritchard, of Carroll, Neb., will consign twelve head of Duroc Jersey sows and gilts from his celebrated prize-winning Cherry Lawn herd. Catalogs giving details of the entire sale offering may be had by writing to Mr. W. H. Billeter, Carroll, Neb. See advertisement on page 54.

PROUTY SHORT-HORNS AND POLANDS SELL JANUARY 19TH AND 20TH.

The closing-out sale of Mr. C. L. Prouty, at Council Bluffs, Iowa, on January 19th and 20th, is the dissolution of herds established twenty-five years ago and which have been bred along practical, useful lines for all these years. The Short-horn sale will contain thirty-six lots, nine bulls and twenty-seven females, and the man who seeks a useful, breedy lot of cattle that make good, either at the pail or on the block, will find something to his liking. They will be offered in plain condition, as Mr. Prouty put it, not fitted for show. The catalog reveals many well-bred animals, both Scotch and Scotch-topped. Prince Charles, a valued son of Imp. Pro Consul; Imp. Magenta; Orange Godoy 2d; Victoria Baron, and Ancient Hero are all great Scotch bulls represented in the offering. Among the bulls are several of the good, strong, sappy, thick-fleshing kind, worthy of special consideration. Butterfly Magenta, got by Imp. Magenta, out of Pearl Butterfly 2d by Prince Charles, is a nicely-bred Cruickshank Butterfly, two years past, to whom a part of the offering have been bred. Forest Cruickshank is a roan of practically the same breeding, his dam being a full sister to the above cow, and is a great promise for someone seeking a bull that promises well for future development. He was a year old in September. A Secret by Imp. Magenta, his grandam being by Imp. Cupbearer, is a youngster full of promise. Red Godoy by Imp. Magenta, out of a Sybil cow, one of a lot of very useful cows of this family, is a good, young, red bull of pleasing appearance. The females are a useful lot of cattle and should find ready buyers. Those of breeding ages are bred to the good Scotch bulls, Imp. Magenta or Butterfly Magenta. The families represented, as shown in the announcement, represent the best in Scotch and American-bred sorts. The Iantha family has been a very profitable family and Princess and Promise are a couple of the best fleshers, regular producers and excellent milkers. Godoy's Violet is a cow of the Violet family, a fine, large cow, an excellent breeder and well along in calf. Orange Princess 12th is a magnificent red cow, a great milkster of the Orange Blossom family with two Bates tops. She is one of the good producers. The catalog, which may be had upon application, gives more details. The big Polands, thirty in number, twenty gilts, five tried sows and five yearlings, are all immune and are a valuable lot by true, big-type sires. Chief of these is Expansion Jr., a champion of Nebraska, and by the old prince of sires, Expansion. He and Iowa Prospect, he a son of the well-known breeding boar, Oakland's Prospect, are the sires of the big, smooth lot of heavy-boned gilts that he will sell. They are bred to Owens' Model, a grandson of Mischief Maker's Best and Guy's Price 2d, an outstanding young boar that, if a little older, could be fitted

to good advantage. The older sows are all bred to Expansion Jr. The boars sell also. Anyone seeking a big, useful brood sow should either be present or be represented sale day. Catalog upon request, mentioning The Homestead. See page 48.

POLLED DURHAM BULL FOR SALE.

In a recent letter from Mr. H. L. Summers, of Maivern, Iowa, he writes as follows: "I have a Double Standard Polled Durham bull, calved last April and sired by Orange King, dam by Lavender Champion, that is the best I have ever owned and I want to sell him. He is a red in color with a white underline and a spot in forehead. This bull is well worth \$150, but I want to sell him and I am going to make the price \$85 and the first man who gets his cheek to my place gets the bull."

FRANK IAMS' GREAT HORSE CATALOG FOR 1910.

It is with a keen appreciation of the higher ideals of things equine, as well as from a typographical appearance that we today review the 1910 catalog of that well-known importer and breeder, Mr. Frank Iams, of St. Paul, Neb. It is larger and better than ever, contains over 100 illustrations (a half dozen of which cover two pages) and as we look through it we marvel at the elaborateness of the undertaking. As we have often said before, Mr. Frank Iams does not do things by halves, and when it comes to getting up a catalog, he makes them all sit up and take notice. This work comprises 180 pages, exclusive of cover, which is printed on a heavily calendared brown, with the name "Frank Iams" heavily embossed on the top of page. Beneath this is a picture of himself in characteristic pose selling a couple of his 2,000-pound "peaches and cream" stallions. Mr. Iams lays claim to the fact that he and he alone selects, imports and sells his own horses—without any middlemen to share in the profits, and this is why he claims that he can sell a horse for as little money as can be bought anywhere. The catalog is full of life from cover to cover, not alone in the horses that are pictured within its pages, but also in the reading matter introduced therein. The whole life of Mr. Frank Iams and his business is reflected in this catalog, and if he does not convince you that he has got what you want, it is no fault of his nor the catalog. It is a work of art typographically, and should be interesting to every lover of a draft horse. Mr. Iams' specialty is black Percherons and Royal Belgians, and to see these right you must send and get his 1910 catalog. It will be sent free to readers of this paper when mention is made of it in writing. See page 57.

THE BROOKMONT COWS.

The sale of Hereford cattle at Brookmont Farm, Odebolt, Iowa, January 26th, as advertised on page 51, is an event which both farmers and Hereford breeders will be interested in to the limit. In our last issue considerable attention was devoted to descriptions of the bulls in the offering, of which there are twenty head that are good enough to speak for themselves. The female consignment, however, numbering eighty head, is one of absorbing interest. It is composed of cows whose blood represents the bluest strains of the breed, that range from one to four years of age, and they are, as Mr. Cook says, as near a perfect type as it is possible to make them. A number of the better ones are daughters of the principal herd bull, College Militant. One of these is Belle 267622, a cow that has massive and well-finished makeup, and is, in addition, a regular producer. Sparkle III., whose dam is a daughter of Imp. Albany, has bred characteristics that should please the most critical breeder, and she would certainly be a credit to any herd. The cow that has exceptional breeding on both sides, and that is also a splendid individual, is Primrose 206780, sire March On, dam by Imp. Chesterfield. Pearlina 232334 is by Sailor, a splendid cow and a regular producer, being the dam of one of the best bull calves ever bred at Brookmont. Marion Albany 237064 is one of the best of daughters of Sir Albany. March On is also represented by Alma March On and well represented, too, as she is one of the best young cows of the herd and has great promise as a breeder. Choice Lad has three most excellent daughters in the sale. One of these, Choice Jessamy, dam by Richard, is an exceptionally fine heifer and a prospective show cow. Another is Arkana, dam by Thicket. She is rather more than an excellent heifer and has promise of becoming a breeder of the choicest of stock. The third is Sylvia Choice, dam Sylvia by Climax. Here is a line of breeding that is hard to beat, and the cow herself stands as one of the very greatest productions of the Brookmont Farm. Then there will be other daughters of Sir Albany, Brookmont Actor and Lord Brookmont, whose dams are by March On, Sailor, Imp. Southington, Imp. Chesterfield and College Militant. The Homestead takes pleasure in advising its breeders of the importance of this sale. It realizes the strenuous efforts which Mr. Cook has taken to produce the very best in the land, and knows that the action has been based upon such an expenditure of money as few breeders would care to make, but the ends have justified the means, and the Brookmont herd of today is one of which not only Mr. Cook, but the whole West may well be proud. It has become a distributing center from which there has radiated some of the very best specimens of the breed. The sale consignment at present in question, contains just as good animals as are left on the farm. It includes those which can be used to advantage in the best herds, as well as those which are absolutely necessary to the farmer who intends to continue to farm on the high-priced lands of this country. As stated in the advertisement, all of these cows are in splendid shape and perfect health. Too much stress cannot be laid upon the fact that they have successfully undergone two tests for tuberculosis, made by government experts, and are, therefore, guaranteed to be absolutely free from any contagion of this character. The cows of sufficient age have been bred to one or another of the good herd bulls of the farm. Do not forget either, that the sale will be held in a heated, well-lighted pavilion, that furnishes every comfort; that care will be taken that every visitor receives

cordial treatment and is afforded opportunity to investigate all the affairs of the greatest farm and breeding institution in the state of Iowa. Catalogs giving complete information as to the animals in this sale may be had by writing to Mr. E. A. Cook, Odebolt, Iowa.

BIETH & SON'S DUROC SALE—LAST CALL.

We want to call your attention to the sale of Messrs. Frank Bieth & Son, of Joliet, Ill., next Monday, January 10th. In past issues we have given you particulars in regard to their offering. It is good and it is up to you to attend this sale if you want a good sow. You haven't time to get a catalog, but be present sale day or send a bid by mail or wire to Mr. Carlos C. Palmer, Homestead field man, and it will be properly handled.

VANDERSLICE BROS.' CHESTER WHITE OFFERINGS.

Messrs. Vanderslice Bros., of Cheney, Neb., report a very satisfactory trade on boars, having shipped pigs all over Nebraska, Iowa, Kansas and Colorado. They are now offering twenty good gilts of March, April and May farrow, bred and safe in pig for March and April farrow. These gilts are sired by All O. K. 12095 and Lincoln 12443 and have been bred to Tony Kerr. Messrs. Vanderslice Bros. are among the leading showmen of the country and have always bred a class that goes out and makes good in the hands of their customers, meaning many repeat orders. We gladly recommend their offerings to our readers. Kindly mention The Homestead when writing. See advertisement on page 47.

GRANT HOCKETT'S BROOD SOW SALE.

On January 18th, at Manning, Iowa, Mr. G. W. Hockett will make his annual Duroc Jersey brood sow sale and those who know Mr. Hockett will realize that he will have something in this sale that the boys will want. He has cataloged forty head and twelve of these will be daughters of his noted Iowa State Fair prize-winning boar, I Am Advance. Two of these are spring gilts and the others are fall sows. He is selling two good Ohio Chief sows—one yearling and one two-year-old, and these are bred to Golden Model 3d and Model Chief 3d. Golden Model 3d is a son of Mr. Waltemeyer's noted sweepstakes boar, Golden Model 2d, and he was one of the best of the fall boars that these boys showed at Des Moines. Model Chief 3d is a full brother to Messrs. Johnson Bros.' sweepstakes boar, Model Chief 2d, and he is one of the best breeding boars that Mr. Hockett or any other breeder has ever used in the state of Iowa. He also sells two good yearling daughters of Buckeye Chief, a son of Ohio Chief, that Messrs. Johnson Bros. are using in their herd. These sows are out of Lulu Advance 12th, a full sister to I Am Advance, Proud Advance, Jim Advance, Advancer and other noted boars. They are bred to Golden I Am, Mr. Hockett's new boar, owned jointly by himself and Mr. Harry Sexsmith. He sells a good yearling daughter of old Iowa Notcher, a sow with lots of quality, and she is bred to Golden Model 3d. There will be two daughters of Perfection King in the sale and he was a litter brother to King of Iowa out of Lucy D. 8th, a full sister to I Am Advance. These sows are bred to Golden I Am for an early litter. Queen of Portsmouth is a four-year-old sow that is one of the best brood sows he is selling. She is an Advance-bred sow and she is bred to Model Chief 3d. Nearly all the gilts in the Hockett sale will be bred to Model Chief 3d and Golden Model 3d, and if this is not good breeding we don't know where you will find it. Write for a copy of Mr. Grant Hockett's catalog at once and be sure to go to the sale. Any bids sent to our Mr. M. T. White, Homestead representative, in care of Mr. Hockett, will receive proper attention on sale day. Kindly mention The Homestead when writing for catalog. See advertisement on page 50.

ADDY & SON'S DUROCS IN DISPERSION.

On Monday, January 24th, at their farm adjoining Parnell, Mo., Messrs. W. L. Addy & Son, of that place, disperse their herd of Durocs. In the sale will be their two great herd boars, W. L. A.'s Choice Goods and Crimson Chief, and about fifty sows and gilts. Twenty years of hard study mating hogs for results is represented in this offering. The Messrs. Addy have stayed by the Duroc as have few breeders. They recognized merit in a good hog wherever he was found, and were always on the alert to introduce fresh blood into their herd when convinced it would better the quality of their hogs. They reared a great herd of brood sows, they bought many good brood sows, and to find a fitting head for this herd they hunted far and near and some four years ago when they found W. L. A.'s Choice Goods he was bought. Some said to place an untried pig at the head of such a herd was a mistake, but time has proven this the best move the Addys ever made. His breeding is so well known that comment is unnecessary at this time. To assist Choice Goods these gentlemen landed Crimson Chief, one of the few living sons of Crimson Wonder, and again their judgment has been found excellent, as these two boars cross particularly well on each other's get. Twenty daughters of Choice Goods are listed, thirty sows are bred to him, several daughters of Crimson Chief are listed and the daughters of Choice Goods are bred to him. Among the great sows that would be held were the herd not to be dispersed is found such matrons as Belle of Iowa Banner Herd, her daughter by Prond Advance and her daughter by Dandy Orion; Lady Orion Dandelion by Prond Advance; a daughter of Crimson Wonder Agin; one daughter of Nebraska Belle's Ohio Chief; Bethany Bird by Model Chief II.; two yearling daughters of Valley Chief; three daughters of Crimson Chief; Ohio Lady, a line-bred Protection, and four daughters of Chief's Col. With the exception of the four Chief's Col. gilts these are the brood sows Messrs. Addy & Son held to produce the pigs. They are a great lot, are producers of more than usual merit and are sows that mate particularly well with their herd boars. It will be an opportunity seldom equaled to get high-class Durocs, and the breeder who places either herd boar at the head of his herd will make a step that will, if he does his part, place his herd in the limelight with a breeding boar whose get make good. Messrs. Addy & Son do not like to quit, they may find another herd some day, but not

until after they have found another good farm and become settled. Send for a catalog. It tells the story, and kindly mention this paper when doing so. See page 49.

TWELVE HEAD DUROC JERSEY BOARS FOR SALE.

Those readers who have not as yet purchased their Duroc Jersey boars should write Messrs. John H. Tryon & Son, Lyons, Neb., who have twelve head of good spring boars on hand. These carry the blood of Obio Chief, Proud Advance, Orion and other noted sires and this firm wants to close them out at once. They are offering them for \$25 each to close them out, and the pick of the bunch goes with the first orders. Therefore, it will be well to write them at once and send your order without delay. Please mention The Homestead when writing them.

LAST CALL STEINBACH'S RED WONDER DISPERSION.

In this issue we make the final announcement of the dispersion sale of Mr. Fred Steinbach, of Yutan, Neb., on January 14th, the last day of the Nebraska Cbampion Circuit. Mr. Steinbach has one of the strongest herds of the middle West, each individual being unusually strong, and forty out of forty-four of this lot have been bred to the grand champion, Red Wonder. There will be seventeen tried sows, nine fall yearlings and eighteen gilts. The tried sows include such animals as Clay Center Belle, a popular Nebraska champion of 1907; Fancy Maid, a winner of second place three times, after having raised a litter each season; Rosebud Pride by Medoc; Lady Wonder by Farmer Burns; Belle's Jennie by Kruger Lad; Belle's Top Beauty, Hazel 7th by Tip Top Chief by Ohio Chief; Lincoln Topsy by Lincoln Top; King's Lady by Ecco King; Royal Princess by Ohio Chief, litter sister to Gold Dust Chief; Hiawatha by Belle's Chief, and Red Bud II. by Golden King and several more. Only good brood sows of proven merit are included. In the gilts Model Chief To Be has a couple out of Belle's Jennie that are very strong; then comes a Lincoln Wonder gilt out of Clay Center Belle. Tientsin Lass by Tientsin contributes one by I Am Advance. Lincoln Top is represented by some choice daughters out of Rosebud Pride by Medoc. Then there are several good fall sows, three very good ones being by Pride's Kant and out of Royal Princess by Ohio Chief. See announcement on page 61 and get a catalog. Remember Red Wonder and Gold Dust Chief, an Ohio Chief-Gold Dust Jim-bred boar, also sell. If unable to attend do not fail to be represented.

SEFRIT'S BIG-TYPE POLAND CHINA SOW SALE.

On January 6th, at Lucas, Iowa, (the sale to be held in town) Mr. Geo. Seffrit will hold his annual brood sow sale, at which time he will sell forty head of well-bred, big-boned, big-type, quality Poland China brood sows. It is an offering that we can highly recommend to breeders and farmers, and it will be a sale where buyers can secure sows at their own price. The corn crop in this section of the state was only fair and this is the reason why we think it will be a good place to buy bred sows. The same condition prevailed here last fall and the buyers got some great bargains. The forty sows that Mr. Seffrit has cataloged for this sale are just as good as anybody will sell this winter and they are in splendid condition. They are sired by Surprise Chief 2d 50514, a grandson of old Chief Price; Pawnee Lad 2d 50363, a grandson of old Pawnee Lad, and Crow's Special, a son of Long Dude. The blood of the larger strains of Poland Chinas will be found in these pedigrees, but Mr. Seffrit has more than that. He also has the quality to go with it, and those of our readers who want this kind of Poland China sows will find them good and plenty in this sale. There will be about twenty head of fall sows and twenty head of spring gilts in the sale. Some of these are out of Fair Girl, a daughter of Long Chief; some are out of Galtry's Model; one good fall sow is out of P. W. Giantess, and there are two good granddaughters of old Nodaway Belle in the sale that are strictly all right. Nodaway Belle is perhaps the greatest brood sow Messrs. Williams Bros., of Villisca, Iowa, ever owned. The spring gilts are a high-class lot from beginning to end. They have plenty of size and bone, are good on their feet and have reasonably good heads and ears. These are mostly all bred to Guy's Prospect, one of the best fall boars that was sold in any sale last fall. We again repeat to readers of The Homestead that they will find the Seffrit sale an excellent place to buy Poland China bred sows. Send for his catalog at once and kindly mention The Homestead. If you cannot be present in person send your bid to our Mr. M. T. White, Homestead represen-

tative, in care of Mr. Seffrit, and it will be properly looked after on sale day. See advertisement on page 49.

THE RYAN SHORT-HORN SALE AT SOUTH OMAHA, NEB.

On January 20th, Mr. H. R. Ryan, of Sioux City, Iowa, will make a public sale of Scotch and Scotch-topped Short-horns at the sale pavilion at South Omaha, Neb., and he will offer some well-bred cattle at that time. There will be about twenty head of Scotch cows and heifers in the sale and about ten or twelve head of bulls, half of which are Scotch, ranging in age from twelve to twenty-six months. In the female offering he is selling Lovely 33d, Lovely 35th and another daughter of the noted sweepstakes cow, Lovely 30th, and they are all bred to Missie's Master, a thick-fleshed, roan Marr Missie bull that is now being used in the herd. These are choice Scotch cows that are good enough to go into any herd. Orange Blossom Pro Bampton Bates 4th is a good cow (notwithstanding the length of her name) and she sells with a beifer calf at foot by Missie's Master. Golden Flower is a daughter of Golden Gloster and she has a good bull calf at foot by Challenge Victor. Mina 8th is a ten-year-old cow, but is one of the best bred cows in the sale. She is a daughter of Diamond Jubilee, one of the most noted bulls of his day. She is a Cargill-bred cow and one of the good breeding cows to be sold in the sale. There will be one of her daughters in the sale and she will be well along in calf herself. Nona is a well-bred Orange Blossom cow that is well along in calf to Missie's Master. This cow is the dam of one of the best young Scotch bulls in the sale. This bull is Orangeman, a son of Missie's Master, just turned a year old, and he is one of those mellow-fleshed roan bulls that will make a good herd bull when matured. Breeders who are looking for a good herd bull proposition should keep this fellow in mind on sale day. There is a good Crimson Flower bull in the sale and a number of others that will bear inspection. Write Mr. H. R. Ryan, Sioux City, Iowa, for a copy of his catalog and then go to the sale. Kindly mention The Homestead when writing for it. See advertisement on page 53.

BARDWELL & BARNARD'S DUROC SALE.

It is always a pleasure to recommend a good offering to the buying public. This is the case with the Duroc Jersey bred sows that Messrs. Bardwell & Barnard, of McHenry, Ky., will sell in their sale to be held at Louisville, January 20th. The writer, a representative of The Homestead, recently inspected the sale sows and found them a good bunch. We do not think five as good sows as the best five they are selling will be sold in any one sale east of the Mississippi river this winter. The five top sows in their sale are Miss Orion by Orion Chief, a sow that was grand champion at the Ohio, Indiana, Kentucky and Tennessee State Fairs, 1909; Phyllis by Macon Chief, which was junior champion sow at the Iowa State Fair and second in class at the Indiana, Kentucky and Tennessee State Fairs, 1909; Proud Maid by Proud Advance, first in class at the Tennessee State Fair, second at Indiana and Kentucky and fourth at the Ohio State Fair, 1909; Colonel's Variety by King of Colonels and The Chief's Daughter by The Chief by Ohio Chief, and her dam by King of Colonels. The above five sows are a great lot and any one of them would look good in the best herd in the country. They are all bred to their great herd boar, Model Top, a prize winner at four state fairs and grand champion boar at the Kentucky State Fair, 1909. As a sire he has a bright future, judging from his first crop of pigs. The fourth-prize under-year sow at the Illinois State Fair, 1909, sired by Macon Chief, will be included. There will be four sows by Prince of Colonels, seven by Model Top, two by Muncie Chief, others by Perfect Colonel, Chief Success, High Chief, The Chief, High Notcher, Prince Wonder, Model Chief's Advancer, Cherry Chief and McNutt's Model. Twenty-three of the sows are bred to Model Top, thirteen to King Wonder and four to Model King of Colonels by King of Colonels. King Wonder is sired by Nebraska Wonder by Crimson Wonder. King Wonder was grand champion at the Tennessee State Fair, 1909. It will be to the interest of western breeders to attend this sale and get some of the good sows. Messrs. Bardwell & Barnard have enlarged their quarters for sows and, with what they buy, expect to have fifty sows farrow for their own use this coming spring. This firm are ambitious to have a herd of Durocs excelled by none and they have almost reached this ambition, but will not be content until they are sure of this. They have in Model Top, King Wonder and Model King of Colonels three boars that are hard to find in any one herd. Their catalogs are ready to mail and can be had for the asking. Their advertisement appears on page 48.

When writing kindly mention The Homestead. Kids sent to Mr. Carlos C. Palmer, care of Willard Hotel, Louisville, Ky., will be carefully handled.

IRVINE'S BELGIANS.

Mr. Chas. Irvine, of Ankeny, Iowa, advertises on page 47 that he has for sale a few excellent Belgian mares. These mares range in age from weanlings to four-year-olds. They have the size and quality that are essential for the improvement of the draft horse. Mr. Irvine has exercised judgment in the care of these horses and buyers will find them to be a lot that have been kept in such a way as to insure good results. They have not been overfed. The older ones have been worked and all have been given enough exercise to insure health and thrift. They are, in fact, kept in breeding form and this point is one which buyers should appreciate. Mr. Irvine has for a number of years been a successful exhibitor at the Iowa State Fair. In 1908 he showed one stallion and three mares at that show, taking second on stallion, first on three-year-old mare and third on two-year-old mare. Last fall he showed two stallions and five mares, winning fourth on aged stallion and first and reserve championship on the two-year-old stallion, Imp. Rober II. de Rum. The prominence of the Belgian grade is shown by the fact that at the last Iowa State Fair the five Belgian grade mares shown took second on three-year-old, first and second on two-year-old, first on yearling, and first and second as farmer's team. The matured mares that will be offered for sale have been bred either to the reserve champion above mentioned or Imp. Coquette, his other stallion that has been a winner at the Iowa State Fair two years in succession. Mr. Irvine, owing to the manner in which he keeps his stock, is prepared to make prices that cannot fail to prove attractive and profitable to buyers. The mares are in good form in every respect and excellent specimens of the breed. For particulars write to Mr. Chas. Irvine, Ankeny, Iowa. He invites a personal inspection of the stock.

THOMPSON'S ANNUAL POLAND CHINA SALE.

Mr. J. O. Thompson, of Cambridge, Iowa, will hold a public sale of Poland China hogs and Aberdeen Angus cattle on Thursday, January 20th. A portion of the Poland Chinas that go into this sale are contributed by Mr. S. H. Coughenour, of Maxwell, Iowa. This sale is advertised on page 50. A representative of The Homestead saw the Poland Chinas cataloged for this sale last week and although he has inspected herds without number he has not for many a long time seen any one sale consignment which so nearly approached his ideal as to what a good Poland China should be. Not only are these sows good, but they are all good and they are good by right of inheritance. There is uniformity throughout that is remarkable because it is so unusual, yet, as a matter of fact, it is a natural result of correct lines of breeding. The sale includes thirty-five head of sows. Sixteen of them are spring gilts, the remainder fall yearlings and matured animals. The older sows are by Longfellow, Twilight Dude and perhaps one or two other sires. The gilts are mostly by Satisfaction 3d 134815. The herd is largely descendant from one grand old sow, May Wilkes, she by a son of Chief Tecumseh 3d and her dam tracing back to the strongest of Tecumseh and Wilkes strains. Her daughters and granddaughters go into this sale and they are so uniform in all their good points as to be rather of a sensational order. Three of her fall gilts and two of her spring gilts, all by Satisfaction, go into the sale, and quite a number of others trace directly to her. One of the good old sows that sell is Princess II. by Hands Down, he by Hand-spring, a Kansas City winner, and he again by that other great old winner, Mischiefs Maker. Two gilts from this sow by Impudence Leader go into this sale. Two other excellent gilts are by Kingsley Chief, he a grandson of Chief Tecumseh 3d and their dam is Logan Belle, a sow of excellent breeding. The herd boar, Satisfaction, above referred to, was bred by Messrs. W. Z. Swallow & Sons, of the Pioneer herd, and was by them denominated one of the best pigs they ever raised. He is a hog of the most growthy character, a son of Satisfaction that was one of the biggest hogs ever used in the Swallow herd. His dam was Midwood U. S. 4th and the second dam Midwood U. S. that was not only a prize winner at the Iowa State Fair, but a producer of prize winners at that great show. Practically all of the sows that go into this sale that are not by this hog have been bred to him. His gilts, however, will have been bred to Longfellow Prospect, a March pig by Big Prospect, he by Blain's Tecumseh. His dam traces to Chief Tecumseh 3d and back of that to a family

of brood sows that have been of world-wide merit. The pedigree is a good one and the pig is a worthy representative of it. There will be a number of Aberdeen Angus cattle in this sale also. For particulars write for catalog to Mr. J. O. Thompson, Cambridge, Iowa.

BLOOMINGTON HORSE SALE.

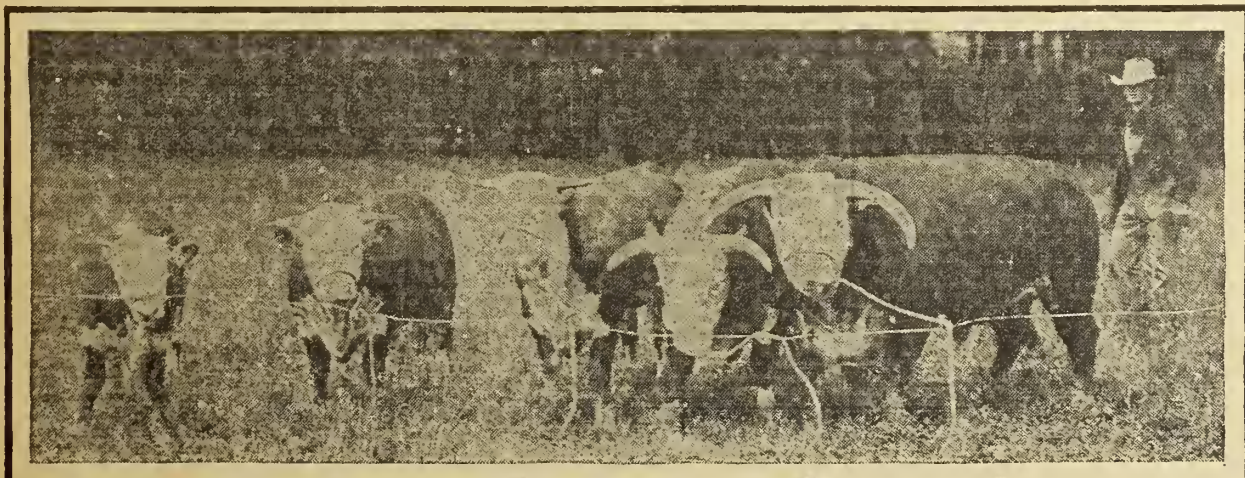
Mr. C. W. Hurt, manager of the Breeders' Sale Company, of Bloomington, Ill., advises us that the sale of imported and home-bred horses to be held in the Coliseum at Bloomington, February 1, 2, 3 and 4, 1910, will surpass anything of its kind yet held at Bloomington. These sales have been very popular in the past and the coming sale promises to be the most successful one ever held at this place. The offering includes about 400 head, about half of which are imported and the balance good American-bred horses. At these sales you have a large number to select from and they are yours at whatever you see fit to pay for them. Some of the leading importers and breeders of America are consigning to this sale. Many of the mares are heavy in foal and we would advise anyone looking for a good mare or stallion to write for a catalog and attend this sale. All inquiries should be addressed to Mr. C. W. Hurt, Arrowsmith, Ill., as per announcement on page 56. When writing mention The Homestead.

HOPLEY'S PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES.

On page 59 of this week's issue will be found the change of advertisement of the firm of Messrs. Peter Hopley & Son, of Lewis, Iowa, who are just now offering a grand lot of Percheron, Belgian and Shire stallions and mares for sale. It will be remembered that this firm made the highest average on mares this fall, the average being \$740, and this in itself signifies the kind of horses that this firm are handling. They also showed eight horses at the International and won seven premiums in one of the strongest shows that has ever been seen in this country. Among these were first and reserve championship on two-year-old Shire stallion, and first on three-year-old Shire mare, Nottingham Energy, considered to be one of the greatest Shire mares that has ever been shown at the International. They also secured first on yearling Percheron stallion, first on yearling Belgian filly, second on Belgian stallion, second on four-year-old Belgian mare and third on three-year-old Belgian mare. It was a showing that made all of the "big ones" sit up and take notice and these few horses are but a reflection of the others that this firm have at home. They write us as follows: "Trade has been excellent with us since we arrived home from the International and we have been selling some good horses, and at prices that are satisfactory to the buyers. Mr. Hopley, the senior member of this firm, sailed from New York recently and we expect to have another importation here by February 1st, and another forty head will arrive about March 1st. We have a grand lot of Percheron, Belgian and Shire stallions now on hand and we extend a special invitation to all lovers of draft horses of these breeds to call on us and inspect these horses on our 1,600-acre farm, where we handle and sell them without the aid of any middlemen, and thereby save the buyer all outside profits."

LAST CALL FOR W. W. WHEELER'S MASTODON POLAND CHINAS.

One of the earlier Poland China events that is attracting considerable attention just now is the "Mastodon" sale of that prince of breeders, Mr. W. W. Wheeler, at Harlan, Iowa, on January 19th. He has cataloged forty-one head for this sale and if it is the big-type, big-boned kind of Poland you want, then you should by all means attend this sale. The four boars today at the head of the Wheeler herd are noted for their size and bone, as well as for their ability to reproduce themselves. Columbia Chief 2d is noted as a breeding boar and his get have been much sought after by breeders throughout the West. He is a grandson of old Chief Tecumseh 3d, out of a daughter by L. S. Chief Rival. He sires both size and quality and his get have great feeding qualities. Several of his daughters are in this sale and he will also be bred to many of the sows that will be sold. A Wonder 107353 is a son of Surprise Wonder 4th and is in all probability the largest boar in the state today. If there is a 1,000-pound boar today in the West in condition, it is A Wonder. He is the sire of the sensational boar, Big Bone, that topped the Peter Mouw sale, and many of his boars now stand at the head of some of the leading big-type herds in Iowa, Nebraska and South Dakota, and a number of them have gone into other good herds in other states. There will be four of his daughters in the sale and quite a few of the sows are bred to him. His get have been in great demand and it is a good time to get a sow bred to him or secure one of his daughters for a foundation sow. King Mastodon, a son of old Mastodon, and Mastodon Chief, a son of Surprise Wonder, have also been extensively used in the herd this year. There are a few of their daughters in the sale and many of the Columbia Chief and A Wonder sows are bred to them. There are quite a number of daughters of Mastodon 2d in this sale. This boar was used quite extensively in the Wheeler herd and he proved an excellent sire of big-boned, large-type Poland Chinas. Those who attend the sale will be impressed with his get when they see them on sale day. There are also four daughters of Mr. Frank Long's Monarch Jr. and Long Chief in the sale, and they have always been good sellers. Lady Mastodon 91st and Lady Mastodon 92d are two-year-old daughters of Mastodon 2d and are out of Lady Mastodon 6th, one of the very best brood sows ever owned in the Wheeler herd. Lady Mastodon 92d is as good a sow as he ever owned and, as she is bred to A Wonder, ought to be in demand on sale day. Lady Mastodon 7th, a daughter of Columbia Chief 2d, bred to A Wonder, is one of the desirable sows in the offering. She has raised three litters to the same boar and they have always been good sellers. In fact, these Columbia Chief sows are all desirable animals to put into a herd and no man will go wrong that buys one of them. It is unnecessary for us to mention all of the sows in the sale, but we will say to the breeders and the farmers of the West who are looking for the big-type kind of Poland Chinas,



A STRING OF BROOKMONT BEAUTIES.

The engraving given herewith is a photographic representation of the Brookmont Hereford herd bull, Sailor 93833, and four of his sons, all the property of Mr. A. E. Cook, Odebolt, Iowa. Some of the youngsters in this picture go into the public sale January 26th, advertised on page 51 of this paper. A good many of the others carry the blood of the old herd bull. Catalogs giving additional and interesting facts may be secured by sending post card request to Mr. A. E. Cook, of Odebolt, Iowa.

that they should by all means attend the Wheeler sale. The catalog will be sent to all readers of The Homestead who mention this paper when writing. Bids sent to Mr. C. C. Carlin, Homestead representative, will be properly handled on sale day. See advertisement on page 52.

DEATH OF THE FAMOUS DIRECTUM.

Horsemen the world over will realize the loss to the horse interests in the death of the great trotting stallion, Directum, which took place at the International Stock Farm, at Savage, Minnesota, a short time ago. Directum was the world's champion trotting stallion for seven years and for sixteen years he had been the world's champion four-year-old trotting stallion. For sixteen years owners and breeders have been trying to lower his great four-year-old record of 2:05 1/4, but Directum died the unbeaten champion for that age and was universally admitted to be one of the greatest harness horses the world has ever seen.

FRANK ALLDRITT IS SELLING RICHLY-BRED SOWS.

Mr. Frank Aldritt, of Friend, Neb., whose change of announcement appears on page 47 of this issue, is selling sows and gilts representing the blood of the most famous sires of the breed at the prices quoted. He is leaving the farm March 1st and everything must be disposed of before that date and anyone seeking some choice sows and gilts, well bred and good individuals, will find that they can secure them worth the money. Billie Davis by Tom Davis, out of Red Bud I. by Medoc, and out of Rosebud Lady, a valuable sire in service, is a bear to whom many are bred. He is a large fellow, with great quality and wonderful fleshing propensities, good feet, a broad, short head, good ham and a great body. He can be secured at a bargain price. Crimson Wonder Jr. by I. Am. A. Crimson Wonder, the sensational pig at Nebraska in 1908, full brother to Crimson Wonder 3d, is another bear to whom a number are bred. He would make a strong bear to fit for another year. See announcement and write, Mr. Aldritt, mentioning The Homestead.

CLYDESDALE HORSE SALE.

Admirers of Clydesdale horses will have an excellent opportunity to secure some specimens of that breed at the public sale which Mr. Alfred Bailey will make at Anita, Iowa, on Friday, January 24. Mr. Bailey is a native of Scotland, with all the Scotch admiration for the great Clydesdale breed, and in all his breeding operations he has been careful to use none but straight Scotch-bred animals on both sides. In this sale he will offer to the public one imported stallion, four American-bred stallions and four recorded home-bred mares. Perhaps the leading point of interest in this sale will be the aged stallion, Merrimac 12358, imported by Messrs. McLay Bros. As a sire, Merrimac has been wonderfully successful. He can show the best colts ever raised in Cass county, some of them weighing around 1,500 pounds at a year. He is the sire of the mare, Ladylike, that was champion Clydesdale mare at the great International show two years ago. His dam was a great prize winner in the old country. Debonair 12976 is a September three-year-old, weighing 1,800 pounds. His, also, is a line of breeding of exceptional prominence. His dam was Princess Handsome 9758, a mare that was three times the first-prize winner at the Chicago International show and prominent as the ribbon taker at Illinois, Iowa and Wisconsin State Fairs. The other stallions named in the advertisement are all good, not only with reference to breeding, but in all the points of excellence that go to make the very best of Clydesdales. Both stallions and mares have been broken to harness and the three older mares named have done all the work on Mr. Bailey's quarter-section farm. This is a sort of cleaning up and reducing sale on the part of Mr. Bailey, and for that reason he will sell, in addition to the horses, four Scotch-topped Short-horn cows and their calves. Three of the latter are summer calves and two are yearling heifers. There will also be a contribution of grade cattle and hogs at the same sale. For further particulars write to Mr. Alfred Bailey, Anita, Iowa. See page 48.

STANSELL & MATERN'S DUROC JERSEY SALE.

Messrs. Stansell & Matern, of Magnolia and Loutan, Ill., will hold their annual sale of Duroc Jersey bred sows at McNabb, Ill., on January 25th, the day following the Stoner sale at Henry, Ill. These gentlemen have been breeding Durocs for a number of years and have used boars of the most desirable blood lines. The Professor by Ohio Chief is now the chief sire in use. The Professor must be considered one of the good breeding boars of the country. His first crop of pigs were good enough to win thirteen ribbons at the last Illinois State Fair. They won seven firsts, five seconds and one third. That is going some at a show like Springfield. Seven gilts by The Professor will sell in the sale. The other boars that have been used this fall are Colonel Case, a good son of Perfect Colonel; Crimson Wonderful by Crimson Wonder Again, and Colonel A. by Chief's Colonel. These four herd boars represent the cream of Duroc Jersey pedigrees and no one can go wrong on a sow bred to any one of the above boars. Three of the sows are yearlings by Prince Wonder, two by Inventor, out of a Helen Blazes sow, and one by Model Wonder. There are three gilts by Inventor out of a Model Wonder dam. A special attraction is Professor's Queen, the second-prize gilt at the Illinois State Fair, 1909, bred to Defender, first at Iowa and Illinois State Fairs and International champion, 1909. This gilt helped to win six ribbons at Springfield this year. There are three gilts by Chief's Colonel out of the top sow in Mr. L. E. Thomas' sale last year. There are five other gilts by Chief's Colonel, three by Perfect Colonel, one by Model Wonder, three by Macon Chief, one by High Notcher and several by Kant Be. The offering contains a combination of the best blood lines, as well as do the boars to which they are bred, namely, Kant Be, Beat, Ohio Chief, Colonel, Pilot Wonder and Crimson Wonder. There are a number of show prospects to sell in this sale and old breeders had better spend this day with Messrs. Stansell & Matern and help themselves to some of these good sows and gilts. Send for catalog, kindly mentioning The

Homestead. See announcement on page 47. Sale a block from depot in McNabb. Send mail or wire bids to Mr. Carlos C. Palmer, Homestead field man.

THE GATES DUROC JERSEY SALE.

Mr. J. O. Gates, of Sheldon, Iowa, will make a closing-out sale of his entire herd of Duroc Jersey hogs, on Thursday, January 20th. The consignment will include forty head, eight of them being tried brood sows and the remainder gilts. The former are daughters of Notcher's Model, Royal Triumph, Jumbo Giant, and Star Marshal, while the gilts are by Longfellow, Sioux Chief, Bon Bon 2d, Royal Triumph and Custer's Top Notcher. They will have been bred to Longfellow and Emperor Weiser, the latter a son of Budweiser. A representative of The Homestead who recently inspected this herd announces that it is one of the good lots that will be dispersed this year. The tried brood sows, he says, are exceptionally fine and the younger things have unusual promise. Mr. Gates makes this dispersion because of having sold his farm with the intent to move to Colorado. There will also be included in this sale one two-year-old Short-horn bull, Gay Champion, sire Gay Lothario, dam Mina Lass 12th, which is a straight Scotch pedigree and an animal of considerable excellence. The usual accommodations will be furnished as noted in the advertisement on page 60 of this paper. For catalogs write Mr. J. O. Gates, Sheldon, Iowa.

LAST CALL HOLT'S SHORT-HORN DISPERSION.

In Double Goods and several other good things by Imp. Choice Goods, Mr. W. E. Holt offers sufficient attractions in his dispersion sale of Short-horns, at Falls City, Neb., on January 12th, to attract buyers from the ranks of the foremost breeders and of such a class as any of the smaller breeders should aspire to own. Double Goods by Imp. Choice Goods and out of Lady Myrtle, a daughter of Imp. Choice Goods, is a two-year-old of wonderful breeding character, mellow, thick fleshed, very low, good lines, great quarters and altogether is no doubt one of the most valuable sons of Imp. Choice Goods. There will be many cows in the offering safe in calf to him, as well as some twelve or fourteen calves got by him selling with cows. His dam, Lady Myrtle, and Silene's Goods, a daughter of Silene 2d, the dam of Messrs. Bellows Bros.' Good Choice, make up some star attractions seldom found in any sale. Silene 2d and 3d Lady Myra are Scotch cows, the foundation of all this useful stock, which should appeal to any man seeking a first-class breeding cow of outstanding individuality. In a couple of younger bulls, both Secrets, sons of Silene 2d and got by the pure Scotch-bred Sulmo by Imp. Daydream's Pride, formerly in service, Silene's Duke, the older, an April yearling, is a very straight proposition, possessing finish, scale and great back, loins and very low down. The bull that is an outstanding good one in any company is Prince Silene, of the same breeding also, a half-brother to Good Choice and certainly a prospect for a show and breeding bull. He is good enough individually to attract the attention of any breeder. Several other good Scotch cows, such as Queen Secret, Gloster's Beauty, Gloster's Beauty 2d, Miss Gloster and several more are big, roomy, high-class individuals. Mr. Holt is offering a lot of big, useful, breedy females and every one is selling with a guarantee on them. Readers who are in the market for something useful will do well to attend the sale. The announcement which appears on page 54 gives more details. When writing for catalog mention The Homestead.

GUTHRIE'S COMBINATION SALE.

Mr. A. T. Guthrie announces a combination sale of Short-horn cattle, registered draft horses and pure-bred Shropshire sheep to take place on the fair grounds at Newton, Iowa, on Thursday, January 20th, as noted in the advertisement on page 53. The sale is one which cannot fail to prove of interest because the various consignments include animals of the most useful sort and of high individual merit. In particular the horses are worthy of looking after. Half a dozen or more of them are English Shire mares and they are good ones. One is an aged mare with strong Shire characteristics and a colt producer that has a most excellent record. Two of her daughters, one four years old and the other two years old, are included in the sale and they also are good examples of the breed. There are, in addition, a nice pair of five-year-olds. All these are good breeding mares and have been bred. There will also be a good bay two-year-old Shire stallion and one that promises to develop into something more than ordinary merit. The Percheron consignment includes a fine pair of three-year-old black mares, a pair of imported gray four-year-olds, well matched, one two-year-old, a nice pair of bays and perhaps one or two others. That all these Percherons are good ones, we will be borne out in the judgment of those who attend the sale. In addition there will also be sold two standard-bred stallions, a yearling and a two-year-old. The Short-horns, of which there are thirty head, include a number of animals of most excellent lines of breeding, several of which are really of more than ordinary individual merit. Eight of them are contributed by Mr. Ray Carrier. Among the females of Scotch lines of breeding is a nice two-year-old by Silver Star, her dam tracing to Imp. Claret of Kinaldie. Among the other Scotch cows will be one Generosity, one Butterfly, one Golden Drop and two or three others. The more plainly-bred sorts are simply good money-making individuals. They will be well worth the price at which they will sell. All these cows of sufficient age will have been bred, several of them to a splendidly-bred Orange Blossom bull by Viscount Secret, his dam having been a cow by Lavender Viscount. Only five bulls have been cataloged and two of these are of choice Scotch breeding. One of them is said to be an extra good calf. The consignment of sheep, of which there will be sixty-five head, will be really more meritorious than are usually sent forward in a sale ring. A large proportion of them were raised by Mr. Guthrie himself and are the get of an imported ram, while most of the others are bred to him. The entire sixty-five head are ewes and one or more imported. These ewes are only in plain condition of flesh as, in fact, are all the animals consigned to the sale. They have not suffered for lack of care or feed,

but they are just in good farm thrift such as is a guarantee that they will continue to do well in the hands of new owners. Catalogs of this sale may be had by applying to Mr. A. T. Guthrie, Newton, Iowa.

MORGAN FARM BERSKSHIRES.

From 300 to 700 pure-bred Berkshires are maintained upon the Morgan Farm, at Beloit, Wis. This is the largest and best conditioned herd for breeding purposes in the country. It was established in 1900 and the manager and proprietor have bred for type and condition. They describe their Berkshires as having model heads, good hams, good backs and feet. They are good feeders and growers. They are the normal breeding Berkshires; good mothers, with healthy, uniform litters. The management gives the very closest attention to orders coming through the mail and absolutely refuse to ship a poor hog to anyone at any price. They will take genuine pleasure in sending descriptions and prices to anyone interested. See page 60.

SCHUG'S POLAND CHINA SALE.

Mr. Robert A. Schug announces a public sale of Poland China hogs to take place at Coleridge, Neb., on Saturday, January 22d. Mr. Schug has cataloged forty-five head of big Poland Chinas for this event. Nine of them are tried brood sows that have always raised big litters; five are choice fall gilts and thirty-one are big, growthy, selected spring gilts. The younger things are daughters of Monarch Chief and Hadley's Surprise. The aged sows are by Miller's Tecumseh, Jewel Leader, King Sunshine, Long Chief and Dry Creek Chief. They will have been bred to Hadley's Surprise, Billy Victor, Chief Nelson, Big Dude and Monarch Chief. In this sale there will be found some strictly big hogs, the aged sows weighing right around the 700-pound mark and the gilts close to 350 pounds. They have plenty of length and stretch, good heads and ears, excellent feet and bone, and with quality and finish. The herd has a record for the prolific character of its brood sows. Last year fourteen of them farrowed 156 pigs and raised nearly all. The sale will be held under cover and those in attendance may be assured of perfect comfort throughout. There will be free entertainment for parties from a distance and free transportation to and from the farm. Those who go by way of the Burlington will be met at Belton and returned there after the sale without charge. Should any of our readers be unable to attend they may forward bids to Mr. E. T. Parker, representative of The Homestead, who will be in attendance. For catalogs, which are now ready, write Mr. Robert A. Schug, Coleridge, Neb. See advertisement on page 59.

LAST CALL PUTMAN & SONS' DUROC SALE.

Messrs. W. M. Putman & Sons, of Tecumseh, Neb., will, on January 12th, the second day of the Nebraska Champion Circuit, sell forty-five head of the best Duroc sows ever coming from their good herd. They have been bred to four great sires, Ohio Colonel, Royal Critic, Blue Ribbon Chief and Lincoln Top. The sows include such useful brooders as Royal Blossom 5th, a four times sweepstakes winner; Lucy Advance by Proud Advance; Lincoln Lady by Lincoln Top; Crimson Beauty by Crimson Wonder Jr.; Model Queen by Prince of Colonels; Wood River Belle, a grand brood sow by Imp II.; Ohio Chief's Pride by Ohio Chief; State Queen, a magnificent brood sow by Crimson Jim; Miss Topsy by I Am A Wonder, out of an Orion dam, and others by John's Colonel, Crimson Jim, W. L. A.'s Choice Goods, Prince Wonder, Belle's Perfect King, Ohio Chief, Valley Chief, Tom Davis, Von Billie K., Mac's Improver, American Royal, Crimson Wonder III, and other well-known sires. There are a number of these grand sows which have proven valuable brood sows, some of which Messrs. Putman have paid a good long price for and are going to prove valuable in the herd of the man who has the nerve to go out and take them home and give their pigs the right kind of care. Among the gilts some Valley Chief gilts out of Briggs' Peach by Belle's Model and another litter out of Sutton Girl by Tom Davis. A Crimson Wonder 3d, out of Wood River Belle, is also among the choice things. The announcement which gives full particulars is on page 61 and the catalog may be had upon application to Messrs. Putman, mentioning The Homestead.

THE HARDING-RANKIN DUROC JERSEY BROOD SOW SALE.

One of the greatest offerings of Duroc Jersey brood sows that will be sold in the West this year will be that of Mr. R. J. Harding, of Carson, Iowa, and Mr. W. A. Rankin, of Carson, Iowa, the sale to be held in the sale pavilion at Carson, Iowa, on January 21st. These two well-known breeders will sell fifty head of sows in this sale and we will say without hesitation that a greater offering of Duroc Jersey brood sows has never before gone through a western sale ring. Twenty head of these sows are daughters of the immortal Ohio Chief, a boar that has never had an equal as a sire of high-class sows. It was with pleasure that we looked over these Ohio Chief sows and we don't remember of ever seeing as many choice brood sows in one bunch and we know we never saw so many really high-class sows in one sale. We know this, that Mr. Bob Harding or Mr. W. A. Rankin never before put up for sale such a high-class lot of sows as they have selected for this sale. This is a strong statement, but we stand behind the facts. About fifteen or twenty head in the sale are granddaughters of Ohio Chief, making a total of thirty-five or forty head of daughters and granddaughters of Ohio Chief in the sale. We could go into details on the individuality of the Ohio Chief sows these breeders are offering, but the entire lot is of such high order that we refrain from mentioning each separately. They are also selling daughters of I Am Advance, Crimson Critic, Tientsin, Nebraska Belle's Ohio Chief, G. C.'s Col., Proud Advance, Belle's Chief I Am, Bob's Critic and other noted boars. A large per cent of these sows are bred to their great boar, Harding's King of Cols., winner of second prize at the Nebraska State Fair and one of the greatest Colonel boars that has so far been seen in the West. Others are bred to Crimson Critic, Belle's Chief I Am and other sires used in these two herds. Duroc Jersey breeders who are looking for some of the greatest sows of the breed will certainly find them in this sale. If you

are interested in this breed you cannot well afford to not be at this sale, as it is one of the greatest offerings of brood sows that will be sold this winter. If you cannot be there in person, send a bid to our Mr. M. T. White, Homestead representative, and let him select a sow for you in this sale. Please mention The Homestead when writing for catalog. See page 49.

GEO. SCHMAL WILL MAKE DUROC SALE FEBRUARY 1ST.

Mr. Geo. Schmal, of Sutton, Neb., one of the hustling young Duroc breeders of Nebraska, is making an offering of some thirty-three head on February 1st that are a good lot, taken all through, and are a very strongly-bred lot. There will be twelve tried sows and sixteen gilts and five fall yearlings by such sires as Commodore Lad, Improver II, Medoc, Kant Be Beat, Red Reuben, Billie K. Medoc, Red Knight, Beauty Wilkes, Cherry Boy, Mac's Improver, Buddy Baxter 4th and Red Top, a valued son of Echo Top. The catalog will be ready for mailing January 15th and one may be had by addressing Mr. Schmal as above and mentioning The Homestead.

THE BLOOMINGTON HORSE SALE.

Those who are interested in horses will not fail to notice the advertisement of the big Bloomington sales on page 56. It is actually a series of four sales beginning on February 1st and continuing over the 2d, 3d and 4th, and including nearly five hundred head of the various breeds of horses. Four hundred and sixty of them are registered draft horses and of these one hundred and fifty are imported Percherons and Belgians that will land just in time for the sale. These lots will be taken from importations of Messrs. Stream & Wilson who bring over sixty head of one and two-year-old stallions and mares and from that of Mr. W. H. Ritter, who comes from France with more than half a hundred head. Among others who consign large numbers are Mr. Augustin with Percherons, Moots Bros. with imported Percheron mares, Robert Burgess, Finch Bros., John C. Baker, and a hundred others. It is planned to sell 125 horses each day of the sale. The event will take place in the Coliseum, well lighted and heated with ample accommodations for all who may wish to attend. Good hotel facilities exist. Catalogs are now ready and may be had by sending a request to Mr. C. W. Hurt, manager, Arrowsmith, Ill.

STONER'S DUROC SALE.

A firm that have been breeding Duroc Jerseys for some twenty years is Messrs. T. W. Stoner & Son, of Henry, Ill. These men have figured largely in Duroc history and they are still breeding hogs and have kept improving them until at present they have a herd second to none. These gentlemen will hold a bred sow sale in Henry, January 24th, and at that time will sell fifty head of choice sows, consisting of twenty-four fall gilts, nine yearling sows and fifteen spring gilts. Ten are sired by Royal Robin by Cock Robin by Top Notcher, twenty by Colonel Stoner, by King of Colonels, out of a granddaughter of Ohio Chief and eight are by J. S. C. by Kant Be Beat. The balance are by Advance, Colonel Royal Robin, Chief of All and Commodore King by Commodore. Write for a catalog and look over the breeding. The following numbers in the catalog are the best ones in the offering: Four, 11, 13, 14, 15, 17, 19, 28, 32, 33, 36 and 50. Any one of these are good and if you can't come send a bid on one of them. The offering is bred to Colonel Stoner, J. S. C., Ringworm Choice and Duchess Colonel. Duchess Colonel is a young boar they purchased from Mr. R. J. Harding, of Macedonia, Iowa. He is sired by Harding's King of Colonels and out of Gold Dust Duchess by Ohio Chief. Mr. Harding considers this pig one of the very best he has ever bred and that means a great deal when coming from a man like Mr. Harding. These gentlemen will appreciate the attendance of breeders whether you wish to buy or not. They will furnish free accommodations to all who attend. The sale will be held in town and Henry is easy of access, being on the Peoria branch of the C. R. I. & P. Ry., which connects with the main line at Bureau Junction. Mention The Homestead when writing for a catalog. See advertisement on page 47. Send mail or wire bids to Mr. Carlos C. Palmer, of The Homestead, in care of Messrs. Stoner.

LEE HOPPER'S BROOD SOW SALE.

On January 20th, at Neola, Iowa, Mr. S. L. Hopper will make a public sale of forty head of Duroc Jersey bred sows and it is an offering that is far ahead of the bunch he sold last year. It will be remembered that Mr. Hopper made the top sale here in the West last winter, but we are here to say that he is selling a better lot of sows in this sale than he sold at that time. In many ways it might be practically called a Tip Top Chief sale, as there are many daughters of this well-known herd boar in the sale, and he is also bred to a great many sows in the sale. Besides these he is also selling two daughters of Proud Advance, bred to Guthrie Chief and Ohio Col. (the latter boar being a Colonel-Ohio Chief cross). Both of these are good sows and fit to go into any of our best herds. He is also selling a daughter of Messrs. Hanks & Bishop's boar, Model Wonder, and she is out of a Proud Advance dam. The dam of this sow cost Mr. Ernest Panache \$750 and she is the best sow in his herd. This Model Wonder yearling is by far the best daughter we have ever seen sired by that boar, and few better sows will be sold this year. She is bred to Guthrie Chief for an early litter. Harlem Belle, a granddaughter of old Crimson Wonder (the best sow Colonel Reppert says he has ever sold) goes in bred to Guthrie Chief. Col.'s Princess is a large, massive sow. She is a two-year-old daughter of the noted sire, Prince of Cols., and she is also bred to Guthrie Chief. Mr. Hopper sells a fall sow, a daughter of A. L.'s Chief (he by Ohio Chief) and her dam is the noted sweepstakes sow, Ruberta G. She is one of the choice things in the sale and she goes in bred to Guthrie Chief. He also sells a fall sow, a daughter of McNeil's Model, and she is bred to Tip Top Chief. There is a good fall sow in the sale sired by Guthrie Chief and out of a Lafollette dam, and she is bred to his excellent young boar, Ohio Chief I Am. The Ohio Chief I Am gilts that Mr. Hopper is selling are mostly out of Guthrie Chief dams and are all bred to Tip Top Chief for March farrow, and the Guthrie Chief gilts are all

PUBLIC SALE OF DUROC JERSEYS

AT HENRY, ILL., MONDAY, JAN. 24, 1910

50 BRED SOWS 50

Good enough for any breeder. All the up-to-date families represented.

We have been breeding Durocs for over twenty-five years and think we can safely say this is the best offering in both individual merit and breeding that has ever come from our herd. And we feel warranted in saying that no better nor more useful lot of hogs will be offered at public auction this season. Neither will you find thicker-fleshed Durocs with better feeding qualities, and they get their easy-feeding qualities by inheritance. The intending purchaser will find it difficult to find a herd of equal number where he could be more satisfactorily fitted out with a foundation for embarking or advancing in the breeding of this practical "farmer's hog." The great breeding boar, Col. Stoner, by King of Cols., is one of his best sons, and as his pigs will show, he is going to make his mark as a sire. Several other boars of more than ordinary merit and breeding are used in this herd. The sows are of the best blood of the breed, being of the Colonel, Protection, Advance, Orion, Top Notcher, Wonder and Kant Be Beat families. If you are looking for Durocs of the best individuality and breeding—the profitable sort, the kind that look well and do well—you will not be disappointed in the offering January 24th. They include tops that have been especially retained for this sale. Sale will be held in Henry. You are cordially invited to attend. Write for catalog, mentioning The Homestead. Send bids to Carlos C. Palmer, Homestead field man, in our care. Auctioneers: Cols. Fred Reppert, Nelson Kraschel, C. C. Sawyer.

T. W. STONER & SON, HENRY, ILLINOIS.

TOO LATE TO CLASSIFY.

\$25--Bred Sows and Gilts--\$40

The blood of Ohio Chief, Crimson Wonder, Glendale Critic and Improver II. represent the sows. Billie Davis by Tom Davis and Crimson Wonder Jr. by I Am a Crimson Wonder are the boars the sows and gilts are bred to. Write your wants. Address **FRANK ALLDRITT, FRIEND, NEBRASKA.**

J. L. McILRATH
GRINNELL, IOWA.

Fine Stock Auctioneer

Duroc Jersey and Poland China hogs and Short-horn cattle my specialty. My customers my references. Ask them. Write me.

BELGIAN MARES

IMPORTED and American-bred Belgian mares, safe in foal by a reserve champion stallion at the Iowa State Fair. They are good ones, none over 4 years old, broken to harness, and in an ideal breeding condition. Also some mares not yet of breeding age. Among them are some that have been winners at the Iowa State Fair. Write for prices or come and see them. Address **CHAS. IRVINE, ANKENY, IOWA.**

When writing to advertisers please mention this paper.

bred to Ohio Chief I Am. He also sells a nice Chief's Col. gilt in the sale. Write for Mr. Hopper's catalog at once and be sure to go to the sale. If you cannot be there in person send a bid to our Mr. M. T. White, Homestead representative, in his care and it will be cared for on sale day. See advertisement on page 50.

IMPORTANT SHORT-HORN SALE.

Our old friend, Mr. Sylvanus Haworth, of New Sharon, Iowa, who has for a number of years been prominent in both cattle and swine breeding circles, now finds it necessary to change his location on account of the health of his family and for that reason makes a public sale on short notice. As stated in the advertisement on page 48, he will, on Thursday, January 13th, offer in connection with a general farm sale about seventeen Short-horn cows and heifers and four bulls. The cows are all producers and have each raised a calf regularly each year. They are good, useful, money-making, plainly bred stuff. Mr. Haworth, having concluded to make this sale on short notice, will not be able to issue a catalog, but will be glad to give any required information. For anything further than may be learned in the advertisement, write to Mr. Sylvanus Haworth, New Sharon, Iowa.

Ask your neighbor to subscribe for The Homestead.

DAIRY COW SALE

At Redhead Farm Near Fair Grounds
DES MOINES, IOWA, JAN. 12

We are closing on sixty high-grade Holstein cows and heifers (all fresh or will be soon), six Jersey cows, twenty-two dual-purpose cows, one Ayrshire cow, one Guernsey bull and two pure-bred Holstein bulls. These are cows we got together for our own herd and they are the best we could get. S. K. Noland, auctioneer.

Hazel Dell Dairy Co., Des Moines, Ia.

PREMIER BELLE'S DUKE

Is the sire of many of the offering to be sold at public sale February 21, 1910. They are bred to Baron Duke 154th by Baron Premier 40th. Write for catalog.

J. W. OGLE, AMES, IOWA.

GUERNSEYS

FOR SALE—I am overstocked and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

POLAND CHINAS

FORTY BRED SOWS—BIG TYPE
BIG-TYPE Polands with big-type blood lines sired by Napoleon Chief 84169 and bred to Corn Belt Expansion 153155 for March and April farrow. Write for prices and des. **C. K. Hanson, Nashua, Ia.**

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address **Riley Bros., Albion, Neb.**

Vanderslice's Chester Whites

Our show records stand unsurpassed. We have 20 gilts, March and April farrow, sired by All O. K. 12035 and Lincoln 12443 and bred to Tony Kerr. Get our price on your wants. 12 miles south-east of Lincoln. **Vanderslice Bros., Cheney, Neb.**

DUROC JERSEY BRED SOW SALE

TO BE HELD AT

McNabb, Ill., Tuesday, Jan. 25

50-HEAD-50

Fifteen Bred to THE PROFESSOR by Ohio Chief

THE get of The Professor won seven firsts, five seconds and one third at the last Illinois State Fair. One bred to Kant Be and balance bred to Col. Casey by Perfect Col. The offering includes three yearlings by Prince Wonder, two by Inventor, one by Model Wonder, one by S. & M.'s Proud Chief, eight gilts by Chief's Col., seven by The Professor, three by Inventor, three by Perfect Col., one by High Notcher, three by Macon Chief, one by Model Wonder and three by Kant Be. Write for catalog, mentioning The Homestead. Carlos C. Palmer, Homestead field man. Cols. H. L. Igleheart and Fred Reppert, Auctions.

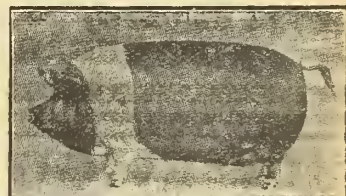
ADDRESS EITHER

HENRY MATERN, LOSTANT, ILLINOIS,
or **J. B. STANSELL, Magnolia, Illinois.**

PUBLIC SALE OF PRIZE-WINNING HAMPSHIRE SOWS

AT MY FARM NEAR
Morrison, Ill., January 29, 1910

50 HEAD TOPS



They are sired by such boars as Long John 811, champion Indiana State Fair, 1907; Legal Tender, champion Illinois State Fair, 1906-1908; Bon Bon Beauty, first-prize junior yearling boar Illinois State Fair, 1908. My winnings at Illinois State Fair, 1908, were fourteen out of sixteen classes, including seven firsts, five seconds and both championships. I will sell Maud, the reserve champion sow at Springfield, 1908, and several of her daughters and sisters. Several daughters and sisters of Beauty's Best are also cataloged. Sows are bred to high-class boars. Will sell my dapple gray Percheron stallion, Cosack 40297, weight 1,700 pounds. Send for catalog, mentioning The Homestead. Sale under cover. Parties who cannot attend can send bids to Carlos C. Palmer, Homestead field man, in my care. Auctioneers: Fred Reppert, H. L. Igleheart.

A. L. Goodenough, Morrison, Ill.

CLOSING-OUT SALE SHORT-HORNS and POLAND CHINAS

AT FARM THREE AND ONE-HALF MILES N. E.
COUNCIL BLUFFS, IOWA, JAN. 19-20, '10

THE offering of Short-horns which we will present on January 19th will consist of 36 head, 9 bulls and 27 females. A lot of useful, breedy, dual-purpose females; a business lot in every sense, and a very vigorous, sappy lot of bulls, among them a couple of great prospects. They represent such good Scotch families as Sybil, Butterfly, Secret, Victoria, Violet, Orange Blossom, and such noted American sorts as Young Mary, Flora, Rosemary, Ianthe, Adelaide and Mrs. Motte. All females of breeding age are bred to the grand Scotch bulls, Imp. Magenta and Butterfly Magenta. A couple Double Standard cows are included. **Big Polands on January 20th.** 30 head; 20 gilts, 5 tried sows and 5 yearlings, every one immune. The gilts are sired by Expansion Jr., Nebraska champion, 1902, and Iowa Prospect, a son of Oakland's Prospect, and are bred to an outstanding young boar, Owen's Model, he a grandson of Mischief Maker's Best and Guy's Price 2d. All the tried sows are bred to Expansion Jr. by Expansion. The herd boars, Exp. Jr. and Owen's Model, also sell. Big bone, prolificacy, size and early maturity. Send bids to Fred Larkin, representing The Homestead. Cols. J. West Jones, I. W. Holman, A. G. Stageman, W. H. Dutrow, auctioneers. Send for catalog now ready, to

G. L. PROUTY, COUNCIL BLUFFS, IOWA.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

**W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM,
CEDAR RAPIDS, IOWA.**

HOMEWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron, Belgian and Shire STALLIONS AND MARES

SIXTY head of stallions arrived August 10th. 40 head of Percheron mares arrived on Nov. 5th. We also have a choice selection of American bred Percheron mares, fillies and stud colts. If in the market for a first class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. **Our Motto:** Prices right, terms to suit, satisfaction guaranteed. No misrepresentation or disappointment on arrival. Write our home bank for reference. Homewood is on the main line Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly from the city. Bell 'phone Homewood 204.

Don't fail to see our exhibit of 60 head at the coming International.

S. METZ & SONS, HOMEWOOD, ILLINOIS.

MISSOURI AUCTION SCHOOL

DURING the successful progress of our school we have had thousands of letters from parties who were anxious to learn auctioneering, but could not leave home for so short a time as four weeks, and for this class of individuals we have formulated a Scientific Correspondence Course for study at your home, and should you ever wish to attend the school in person, the money you have paid on the Correspondence Course will apply upon the tuition here. **Catalog Free.** **WM. B. CARPENTER, TRENTON, MISSOURI.**

BARDWELL & BARNARD, McHENRY, KY.

DUROC JERSEY Bred Sow Sale

LOUISVILLE, KY., JAN. 20, 1910

At Louisville Transfer Co.'s Annex Barn,

JEFFERSON STREET, BETWEEN EIGHTH AND NINTH.

Will Sell 40 Sows

Bred to Model Top, King Wonder and Model King of Cols. Sows sired by Prince of Cols., Perfect Col., Prince Wonder, Model Chief Advancer, High Notcher, Chief's Col., Orion Chief, Macon Chief, King of Cols., Model Top, Chief Success, Muncie Chief and other noted boars.

Special Attractions: Miss Orion by Orion Chief, grand champion sow at Ohio, Indiana, Kentucky and Tennessee State Fairs, 1909. Phillis by Macon Chief, junior champion sow, Ohio State Fair; second at Indiana, Kentucky and Tennessee State Fairs, 1909. Proud Maid by Proud Advance, fourth at Ohio, second at Kentucky and first at Tennessee State Fairs, 1909. Col's Variety by King of Cols, full sister to Col. S. The Chief's Daughter by The Chief, dam by King of Cols.

Send bids to Carlos C. Palmer, Homestead field man, in our care, at Willard Hotel, Louisville, Ky., after January 15th. Breeders from a distance will be entertained at Willard Hotel at our expense day of sale. Write for catalog, kindly mentioning The Homestead.

BARDWELL & BARNARD, McHENRY, KY.

Cols. H. L. Igleheart, Fred Reppert and Nelson Kraschel, Aucts.

Only Once In Your Life

will you see this advertisement. It will not appear again. Better read it carefully. I have sold my farm—nothing strange. I am going to move West—not uncommon, either.

I have 21 head of good, useful, plain-bred

MONEY-MAKING SHORT-HORNS

There are 17 cows and heifers and four bulls. The cows are all producers. They don't raise a calf occasionally. They have never failed to raise a calf every year. All of suitable age are now bred. On

THURSDAY, JANUARY 13, 1910,

I am going to hold a general farm sale, preparatory to moving. Don't get the date wrong. I am going to sell these Short-horns at the same time to the highest bidder, and on the same terms given at farm sales generally. Sickness in my family, combined with other unfavorable circumstances, have forced me to offer these cattle without any special preparation. I expect them to sell ridiculously cheap. There will sure be some "persimmons" for the man who is on hand ready for the "windfalls".

If interested, "get busy" and be on hand January 13, 1910.

Sylvanus Haworth, New Sharon, Iowa.

EVERGREEN FARM POLAND CHINA SALE

MY ANNUAL SOW SALE WILL BE HELD AT

REMSEN, IOWA, TUESDAY, JANUARY 25, 1910

I WILL sell 50 head of bred sows. Ten are fall sows by Dorr's Hadley, by Big Hadley and King Dodo by Expansion. The 40 gilts are by Evergreen Model by Big Hadley, Royal Dude by Max Dude, the Nebraska sweepstakes hog, and Longfellow by Longfellow 2d. They are bred to Dorr's Expansion by old Expansion, Pawnee Lad 2d by Pawnee Lad, Big Price by Dry Creek Chief and Exception by Varsity Expansion. This is a very uniform bunch, with as much size as usual; good length, plenty of bone, good color and right up on their toes. Sale will be held on the farm, six miles southwest of Marcus. Parties coming by train will stop at Marcus. Col. J. A. Benson, auctioneer. C. W. Dorr, clerk. For catalogs address **Henry Dorr, Remsen, Ia.**

CLYDESDALE DISPERSION

AT BAILEY FARM, THREE MILES WEST OF

ANITA, IOWA,

JANUARY 24 1910.

THIS sale includes registered stallions and mares and Short-horn cattle. The stallions are Imp. Merrimac 12353 (sire Baron's Pride, dam Princess Allx 113564) a great show mare; Debonair 12976 (foaled September 1, 1906; sire Noranbank 11951, dam Princess Handsome 9758); Laird of Anita 12157 (foaled April 23, 1905; sire Prince Kirtlebridge 9221, dam Jess of Anita 10061); Royalist 13417 (foaled June 13, 1907; sire Royal Defender 9692, dam Jess of Anita); Claymore 13918 (foaled August 25, 1908; sire Merrimac, dam Jess of Anita). There are four mares—Jess of Anita, Queen 13916, Rose of Anita 12710 and Jean of Anita 13917. Four Short-horn cows, 3 summer calves and 2 yearling heifers. Also grade cattle and hogs. Col. J. West Jones, auctioneer.

ALFRED BAILEY, ANITA, IOWA, and ANITA HORSE COMPANY, ANITA, IOWA.

Choice Short-horns at Bargain Prices

(CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fane 19798, and bred to my Chukchank Flora bull, Narcissus King 23956. One extra good bull 16 months old by Royal Fane; 14 younger bulls, mostly by Narcissus King. A choice lot of select front at bargain prices; singly or car load. Address **R. J. COX, GRINNELL, IOWA.**

PLATTENBERGER'S ANNUAL BRED SOW SALE

AT MT. VERNON, IOWA, ON
TUESDAY, JAN. 18, 1910

**50 HEAD OF RICHLY-BRED
Duroc Jerseys**

I HAVE selected the tops of my entire herd of big-boned, growthy Durocs for this sale. They are sired by La-follette 2d, Model Chief 2d, A. L.'s Chief, A Top Notcher and others of note. They are bred to I Am A Golden Model, one of the greatest sons of the champion, Golden Model II.; Colonel's Ohio Chief, a richly-bred Colonel boar by Cherry Chief; Reiger's Kant Be Beat, a grandson of Kant Be Beat; Lafollette II. I breed for bone, size and early maturity and have the largest, growthiest bunch of sows that will be sold at auction this season. Write for catalog, mentioning The Homestead. Send bids to Dante M. Pierce, Homestead representative, in my care. Address

R. C. Plattenberger, Mt. Vernon, Ia.

Col. Fred Reppert, Auctioneer.

ADDY & SON'S DUROCS

IN DISPERSION AT
Parnell, Mo., Monday, Jan. 24th

60 Head--W. L. A.'s Choice Goods, 20 of his daughters; 30 head bred to him **60**

CRIMSON CHIEF, one of the few living sons of old Crimson Wonder, also sells. Some grand, good sows are by him and a number are bred to him. Also see his yearling son. Belle of the Iowa Banner Herd, her daughter by Proud Advance and her daughter by Dandy Orion; Lady Orion Dandelion by Proud Advance; one daughter of Crimson Wonder Again; one daughter of Nebraska Belle's Ohio Chief; Bethany Bird by Model Chief II.; two yearling daughters of Valley Chief; three daughters of Crimson Chief; Ohio Lady, a line-bred Protection, and four daughters of Chief's Col. are sows we would not sell were we retaining any. The balance are by our present herd boars. We have never made such an offering and would not now had we not sold our farm. You get the benefit of our twenty years' efforts at your price. Cols. Luther and Zaun, Auctioneers. A. T. Cole, representing this paper. Send for our catalog.

W. L. Addy & Son, Parnell, Mo.

Harding-Rankin Sale DUROC JERSEY BROOD SOWS

CARSON, IOWA, JANUARY 21, 1910

**The Greatest Offering of Brood Sows
That Will Be Sold in the West This Year**

**50 Head Matured Brood Sows, 50
Yearlings and Spring Gilts 50**

TWENTY daughters of Ohio Chief, all bred to Harding's King of Cols. Fifteen granddaughters of Ohio Chief. One daughter of Proud Advance. Also daughters of I Am Advance, Crimson Critic, G. C.'s Col., Tientsin, Bob's Critic, Belle's Chief I Am, Nebraska Belle's Ohio Chief and other noted sires. It is the greatest offering ever sold in the West, and these sows are bred to the most noted boars of the breed. Write for our catalog at once and come to the sale. Bids sent to M. T. White, Homestead representative, in care of above breeders, will be properly cared for on sale day. Address

**R. J. Harding, Macedonia, Ia.
W. A. Rankin, Carson, Iowa.**

Cols. F. F. Luther and Fred Reppert, Auctioneers.

**GEORGE SEFRIT'S SALE BIG-TYPE
POLAND CHINA BROOD SOWS
LUCAS, IOWA, MONDAY, JANUARY 24, 1910**

40 HEAD--20 BIG-BONED YEARLINGS, 20 BIG-TYPE GILTS

I AM selling, I think, as good an offering as was ever sold in southern Iowa of the big-type—quality kind, and they are certainly good. These are sired by Surprise Chief 2d 50514, Pawnee Lad 2d 50363 and Crow's Special 52713. The gilts are all bred to my splendid new boar, Guy's Prospect, one of the best boars sold last fall. The blood of old Giantess, Anna Price, Pawnee Lad, Crow's Model and Big Prospect will be found in my sale offering. There is not a better place in the state to buy Poland China bred sows this winter, as the corn crop in this section of the state is limited and you can buy these sows at your own price. Write for my catalog at once. Address, mentioning this paper, to

GEORGE SEFRIT - LUCAS, IOWA.

Col. H. S. Duncan, Auctioneer. Bids sent to M. T. White, Homestead representative, will be properly handled on sale day.

**J. O. James' Great "Pawnee Lad" Offering
POLAND CHINA Bred Sows
Braddyville, Iowa, January 18, 1910**

40 Head Matured Sows---Yearling Sows---Spring Gilts

36 HEAD of these are daughters and granddaughters of my old herd boar, Pawnee Lad, considered by the best of breeders to be the greatest breeding boar used in Iowa in recent times. There will be 8 or 10 sows in the sale bred to him. This offering has been selected with great care, and is one of the most practical and best lot of big-boned, big-type Poland China brood sow sales that will be made in the state of Iowa this winter. The sows are safe in pig to Pawnee Lad, Max Dude (sweepstakes boar at Nebraska and Colorado state fairs), Big Hadley 2d and my splendid new boar, Big Ex 47717, an Expansion-bred boar. Bids sent to C. C. Carlin, field man for this paper, in care of Mr. James, will receive proper attention on sale day. Col. Harve Duncan, Auctioneer. Write for my catalog at once. Address

J. O. JAMES, BRADDYVILLE, IOWA.

NAUMAN'S BROOD SOW SALE

WEST LIBERTY, IOWA, MONDAY, JANUARY 17, 1910.

40 HEAD--6 Yearlings--34 Spring Gilts

THE bulk of the offering are sired by Nebraska Chief by Red Knight, Buddy B. II. by Buddy K. IV., Double Wonder by Crimson Indicator, King Improver by J. D.'s Improver, King of West Liberty by Golden Rule. They are bred to Peachie Commodore, first in Illinois class and second in open class, Illinois State Fair, 1909, and Wonder Boy by Double Wonder. This offering will consist of sows and gilts in good condition, and fed and bred with a view to giving the buyer good results, individual excellence in keeping with the blood lines. Sale in heated pavilion. Write for catalog, mentioning Homestead. Send bids to Dante M. Pierce, Homestead representative.

Cols. Fred Reppert and Pliny Nichols, AUCTIONEERS. D. NAUMAN, West Liberty, Iowa.

GOLDEN MODEL II.

BRED SOW SALE TO BE HELD AT MELBOURNE, IOWA, MONDAY, JANUARY 17, 1910

40 HEAD---INCLUDING SHOW WINNERS OF 1909. 15 YEARLINGS AND AGED SOWS, 25 GILTS---40 HEAD

The offering is bred to Golden Model II., second-prize aged boar, Iowa State Fair, 1909; first-prize aged boar, Nebraska State Fair, 1909; first and champion, Sioux City, 1909, and Protection Colonel, first-prize senior yearling boar, Iowa, Nebraska and Interstate Fairs, 1909. The get of the following noted boars is included in sale: Golden Model II., Inventor, Red Wonder, Golden Model, Lincoln Wonder, H. A.'s Choice Goods, Savannah Belle Chief, Kelly's Pilot Wonder, Phallas Model, Proud Advance Jr. and Keep On II. The strongest lot of sows bred to boars of rich blood lines and individual merit that will be sold this year. Bids sent to Mr. M. T. White, Homestead representative, will be properly cared for. Write for catalog, mentioning The Homestead, to

WALTEMEYER BROS., COL. F. LUTHER, AUCTIONEER. MELBOURNE, IOWA.

GRANT HOCKETT'S
DUROC JERSEY BROOD SOW SALE
Manning, Iowa, Tuesday, January 18, '10

40 Head MATURED SOWS, YEARLINGS and SPRING GILTS 40

THERE will be twelve daughters of my noted Iowa State Fair first prize winning boar, I Am Advance; two daughters of Ohio Chief; also daughters of Iowa Notcher, Model Chief 3d, Tientsin, Proud King, Golden Model 2d, Perfection King, Buckeye Chief and other noted sires. These are bred to Model Chief 3d, Golden Model 3d, Proud King and Golden I Am. I am selling an offering that the breeder will appreciate and the farmer will want. Write for my catalog at once. Address

G. W. HOCKETT - MANNING, IOWA.
Cols. F. F. Luther, Auctioneer. Bids sent to M. T. White, Field Man for Homestead, in care of Mr. Hockett, will be properly cared for on sale day.

BEERMAN'S DUROC SALE
AT WEBSTER CITY, IOWA, ON
Wednesday, January 19, 1910

30 HEAD 14 YEARLINGS and AGED SOWS 16 SPRING GILTS

THE offering is sired by Beerman's Model, Top Notcher Jr., King of Brookside, Advancer IV., Jr. Jim Jr., Ohio Chief, Iowa Jim Jr., Manley Orion, King George, Iowa Chief, Crimson Chief and others of note. They are bred to King of Brookside, Gold Prince III. by Colonel's Prince by Prince of Colonels; Beerman's Model by Model Chief. A good, useful lot of sows especially selected for this sale. Send bids to Dante M. Pierce, Homestead representative. Cols. O. L. and A. L. Mossman, auctioneers. Write for catalog to

CHAS. BEERMAN, WEBSTER CITY, IOWA.

Poland Chinas and Aberdeen Angus
IN A COMBINATION SALE AT
Elwell, Iowa, Thursday, Jan. 20th

The thirty-five head of Poland China sows are from the herds of J. O. Thompson and S. H. Coughenour. Half of them are yearlings and tried brood sows. The other half are spring gilts that, from start to finish, will have no equals in any sale ring of the season. They are full of the blood of Chief Tecumseh 3d and other sires of note because of their size and quality. They are show sows. Most of them are by Satisfaction 3d 134815, and bred to Longfellow Prospect by Big Prospect and out of a sow strong in the blood of Chief Tecumseh 3d. The consignment of cattle includes a three-year-old herd bull, son of Prince Ito 2d, five bull calves, two heifers, and seven breeding cows, one with calf at foot, and nearly all safe in calf. All are recorded. Be sure to send for a catalog and see what a grand lot of breeding we sell. H. S. Duncan, auctioneer. Sale eighty rods from depot at Elwell. Trains met at Cambridge.

J. O. THOMPSON, CAMBRIDGE, IOWA

S. L. HOPPER'S OFFERING
DUROC JERSEY BRED SOWS
NEOLA, IOWA, THURSDAY, JANUARY 20, 1910

40 HEAD---35 YEARLINGS and MATURED SOWS, 5 GILTS

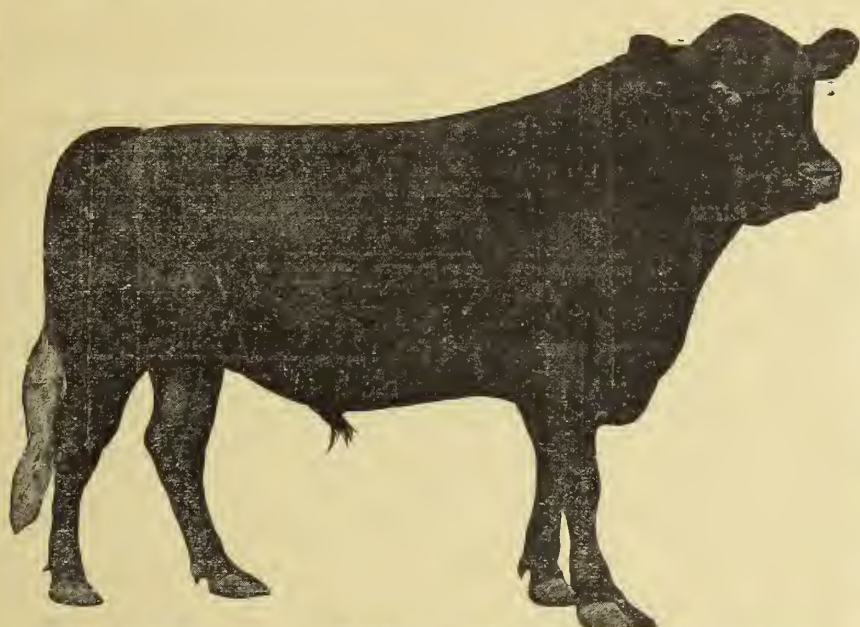
FELLOW BREEDERS—I am selling the greatest lot of brood sows I have ever sent through a sale ring. There will be two daughters of Proud Advance in my sale bred to Guthrie Chief; one cracking Model Wonder yearling out of a Proud Advance dam, bred to Guthrie Chief; Harlem Belle C, the best sow Reppert says he ever sold, goes in bred to Guthrie Chief; Col's. Princess, a daughter of Prince of Cols. and Ruberta G 2d, a daughter of the sweepstakes sow, Ruberta G, both go in bred to Guthrie Chief. Also daughters of Ohio Chief I Am, Guthrie Chief, Chief's Col., McNeil's Model, Tip Top Chief and other sires. Boys, it is by far the best offering I have ever sold and I want you all to come to my sale and see for yourself. Write for my catalog at once. Address, mentioning this paper, to

S. L. HOPPER - NEOLA, IOWA.
Cols. F. F. Luther and Fred Reppert, Auctioneers. Bids sent to M. T. White, Homestead representative, in care of Mr. Hopper, will be properly cared for on sale day.

DAN CLARK'S PRIZE-WINNING RED POLLS AT AUCTION

AT MY FARM

CEDAR FALLS, IOWA, FRIDAY, JANUARY 14, 1910



GRAND CHAMPION BULL, MIDNIGHT, INCLUDED IN THE OFFERING.

DAN CLARK, CEDAR FALLS, IOWA.

OWING to sickness in my family I am compelled to leave the farm and disperse my noted herd of Red Polled cattle. This herd has proven its worth as producers of show animals and is made up of breeding matrons that have given good account of themselves as milkers. The best strains of the breed are represented in this offering. My entire winning show herd of 1909 at the IOWA, ILLINOIS, MINNESOTA STATE FAIRS and INTERNATIONAL, including champion bull, MIDNIGHT, and prize-winning bull, DUROCK, are included. Cols. Carey M. Jones and J. W. Ford, Auctioneers. Write for illustrated catalog, mentioning Homestead, to

SECOND ANNUAL BREEDERS' SALE OF RED POLLED CATTLE

TO BE HELD AT SALE PAVILION
SIOUX CITY, IOWA, JANUARY 19, 1910

CON-SIGNORS { A. P. ARP, ELDRIDGE, IOWA
FRANK J. CLOUSS, CLARE, IOWA
S. A. CONVERSE & SON, CRESCO, IA.

We are offering you as choice a lot of Red Polled cattle as ever passed through the sale ring. A large per cent of the consignment have been shown the past fall and have a great record of winnings to their credit. In breeding the offering cannot be surpassed, rich as they are in the blood of Nailer, Abbotsford, Irwin, Cremo and Logan, the most noted sires of the breed during the past ten years. It is our purpose to present these animals in good breeding condition, not excessively fat, but in useful shape. Our aim then is to put before the public in this sale the best of the Red Polled breed, believing that this opportunity of getting choice individuals will not be overlooked.

A. P. Arp's contribution to this sale consists of eight bulls and nine females; most of these are sired by Nailer or his sons. Nailer besides having a wonderful show record has proved an exceptional breeder. The first prize get of sire at the last International were Nailer calves. Here is an offering of seventeen head that for breeding cannot be beaten.

Frank J. Clouss consigns thirteen head, three bulls and ten heifers. The bulls and a part of the heifers were included in the show herd which made a circuit of 4,300 miles the past season. Space does not permit a record of their winnings, it may be obtained from the catalog. Most of this is Logan stuff, as a show bull second only to Cremo, as a sire one of the foremost producers of good calves. He sired the first prize get at the 1908 International.

S. A. Converse & Son, the old reliable breeders, offer eighteen head, a half of them bulls. No one has worked more persistently for the good of the Red Polled breed than Mr. Converse; he has a consignment which anyone would be proud of. Here is a chance to secure individuals that in breeding and merit cannot be surpassed. Products of one of the largest and most noted herds of Red Polls. Write for catalog, mentioning The Homestead, to

FRANK J. CLOUSS, CLARE, IOWA

COL. FRED REPERT, AUCTIONEER.



FIVE OF OUR CHOICE BULLS INCLUDING SAILOR 93833.

Brookmont HEREFORDS

IN ANOTHER

GREAT AUCTION SALE

IN THE BROOKMONT PAVILION

ODEBOLT, IOWA, WEDNESDAY, JAN. 26th

THIS is a special consignment of 100 head of Hereford breeding cattle that are second to none, either in blood lines, breed merit or promise of profit. Twenty young bulls head the list. The eighty females include a grand lot of producing cows that have raised calves and are again carrying calves to the service of some of the best Brookmont herd bulls, as well as a splendid bunch of heifers whose promise for the future is very flattering. We make no reference to the breeding. It is good enough and can be found in the catalog. What we want to talk about is the cattle. The Brookmont Herefords have been kept because they were money makers. That is a fact that ought to interest buyers for they are sure to continue to do so. Send for a copy of the catalog at once. Auctioneers—Cols. Woods, Reppert and Teaquist. Address, mentioning this paper, to

BROOKMONT FARM, ODEBOLT, IOWA.
A. E. COOK, PROPRIETOR.

FIVE OF OUR CHOICE BULLS INCLUDING SAILOR 93833.



GEO. H. MILLER'S SALE

SCOTCH AND SCOTCH-TOPPED

SHORT-HORNS

IN HEATED SALE PAVILION

Harlan, Iowa, Jan. 11, 1910

44 Head--32 Cows and Heifers with 16 Calves at Foot--12 **44**
Bulls, 5 of which are Scotch

I INCLUDED will be my present Scotch herd bull, Lord Champion 2d, a son of the noted King Champion out of Cherry Sweet Briar by Imp. Lord Banff. There will be five Scotch bulls in the sale and a number of Scotch cows and heifers of the Cruickshank Victoria and Duchess of Gloster tribes. The prolificacy and milking qualities of this herd is one of the marked characteristics of the offering. Write for a copy of my catalog and be sure to come to the sale. Address

Geo. H. Miller, Harlan, Ia.

Col. Geo. P. Bellows, Auctioneer.

WHEELER'S MASTODONS

SELL AT

Harlan, Ia., Wednesday, January 19, 1910

FORTY MASTODON SOWS BRED TO MASTODON BOARS

I EXTEND to all lovers of the big type Polands a hearty invitation to attend my sale on Wednesday, January 19th, in which I am going to sell the best offering of Matron sows that you have ever seen go through a sale ring in one day. They consist of sows that have been doing regular duty in the Mastodon herd, and their daughters, and they are the ones that have won for me the reputation of growing the BIGGEST STRAIN OF BIG BONED, BIG LITTER, BIG HOGS IN AMERICA. These sows are bred to the best battery of BIG TYPE POLAND BOARS IN EXISTENCE. There is not a sow in the offering but that will put you on the ground floor if you are just starting a herd of this type. If you are already a breeder of the larger strains you will find that adding one of these Mastodon sows to your herd will prove a paying investment. Mastodon sows are the kind that will soon flood your farm with pigs if you do not keep selling. If you are going to buy only one sow this winter buy here in this sale, for Mastodon sows have a habit of farrowing a few more pigs to the litter than any other strain. I want you to get my catalog and note the breeding of these sows, and especially the boars to which they are bred. A Wonder 107353, Columbia Chief 2d 91499, King Mastodon 134121. A Wonder is a boar that stands in a class by himself when you are talking about big hogs. He stands 40 1-2 inches high on an eleven inch bone and weighs 1,000 pounds in breeding condition. You will have few chances this winter to buy sows bred to a boar of this size and weight. Columbia Chief 2d is the big quality boar that weighs 900 pounds in condition; stands on a 9 1-2 inch bone, and is the sire of ten of the best brood sows in the herd. King Mastodon is another Mastodon bred boar that will suit you. He weighed 610 pounds at 18 months and is the foundation of a half ton boar next fall. Cols. H. S. Duncan and W. L. Brady, Auctioneers. E. H. Mayes, Manager. C. C. Carlin, Field Man, who will care for all bids. Send for my catalog; it will wake up the natives. Don't forget date of sale. Please mention The Homestead when writing. Address



W. W. Wheeler, Harlan, Iowa.

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If you want to buy or sell a Farm, City Property or Subdivision, no matter where located, write for terms and dates.

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CLEARFIELD, IOWA.
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Thoroughly posted in pedigrees and sales cried anywhere. Write us for dates.

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SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed.
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Live Stock Artist. Write me.

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Fifteen years' experience
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Write for Terms and Dates.



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MACON, ILL.

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Geo. W. Dykes Live Stock
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Pedigreed Live Stock
Maryville, Mo.

GUERNSEY CATTLE.

GUERNSEY CHAMPION FOR SALE

THE two-year-old bull, Gratify, first prize winner at Iowa, Seattle and the Fourth National Dairy Show, and second at Minnesota and Wisconsin in 1909, and junior champion at Wisconsin in 1908 as a yearling. He is an excellent individual and should head a good herd of Guernseys.

Fox Bros., Waukesha, Wis.

The Guernsey was the First Breed to Register on basis of Years Records with Public Supervision.
Best Milk Record: 17297.51 lbs.
Best Butter Fat Record: 857.15 lbs.
(Equivalent to 1000 lbs. Butter.)
THE MONTHLY GUERNSEY BULLETIN and information regarding the breed free by addressing
Guernsey Club, Box 12, Peterboro, N. H.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Straunford 9386, a son of Straunford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairy maid of Pinehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls.
Ben Clark & Son, R. 1, Whitewater, Wis.

GUERNSEY CATTLE.

SUNNY VALLEY GUERNSEYS

HERD headed by Lord Waukesha 10148 and Eva-lin's Yeksa 10232, two of Wisconsin's noted bulls. Herd numbers 50 head. Some very choice young bulls for sale. Herd tuberculin tested.

WM. M. JONES, WAUKESHA, WISCONSIN

BONNY BOY GUERNSEYS

I have a few young bulls for sale at this time. They are from some of my best milking dams. Address:

RALPH TRATT, WHITEWATER, WIS.

BROOK HILL FARM Pure-Bred Guernseys

FOR SALE Bulls from three to fifteen months of age. Dams have made from four to seven hundred pounds of butter in one year, official test. Send for sale list.

David W. Williams, Supt.,
GENESEE DEPOT, WISCONSIN.

JERSEY CATTLE.

JERSEY BULL CALF FERNS LORD PILOTTA

SEVEN months old. This calf is a prize-winner, handsome and well grown, sired by a son of Golden Ferns Lad (see cut) and out of a sweet-milking, 7,000-lbs. cow; \$75.

Sunny Peak Farm, Elm Grove, Wis.

King Sappho King Jerseys

WE offer a few mature cows for breeding purposes, a few young cows and heifers and a magnificent lot of young bulls sired by King Sappho King 65362 and Lavetta D's Champion Son 77002.

J. Q. Emery & Son, Elzertown, Wis.-consin.

VALLEY FARM

IS offering a few yearling bulls, sired by Blue Bell's Eminent 74774. Also a few bull calves. These are a fine bunch and will be sold cheap. For particulars, write Fred Stibley, Black Earth, Wis.

Wineland Farm Jerseys

OUR cattle are of the richest breeding and are bred for money makers as milk and butter fat producers. See us or write. Address
H. C. Young, Lincoln, Neb. (On street car line)

DISPERSION SALE

SCOTCH AND SCOTCH TOPPED

SHORT-HORNS

SOUTH OMAHA, NEBRASKA
THURSDAY, JANUARY 20, 1910

50 Head ¹² BULLS ³⁸ FEMALES 50

EVERY bull is a SCOTCH BULL and there will be TWENTY SCOTCH FEMALES in the sale, including three daughters of the champion cow, Lovely 30th. The Scotch families represented are Cruickshank SECRET, LOVELY, MISS RAMSDEN and MISSIE. A large per cent of the females have calves at foot. Send for catalog at once, mentioning The Homestead. Address

H. R. RYAN, Sioux City, Iowa

Col. Geo. P. Bellows, Auctioneer.

HOLSTEIN-FRIESIAN CATTLE.

HIGH GRADE HOLSTEINS
(COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want.)
RIVERSIDE STOCK YARDS, ALGONQUIN, ILL.

Registered Holsteins (Established 1876.)
THE two greatest sires of the breed, Paul Beets De-Kol and Heugerveld De-Kol have more sons and daughters in this herd than any herd in the world. Plenty of stock for sale.
R. E. HAEGER, ALGONQUIN, ILLINOIS.

Rock Brook HOLSTEINS

All females cataloged for my Fourth Annual Sale at South Omaha, Feb. 8-9, 1910. A few bulls and bull calves at private treaty. Send for my catalog of 125 head to be sold in sale.
HENRY C. GLISSMAN, Station B, OMAHA, NEBRASKA.

MONONA FARM HERD

(F) pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.
F. W. ALLIS, MADISON, WISCONSIN.

20 HOLSTEIN BULLS

From two weeks to eight months old. Fashionable breeding, large milking dams. Six Netherland Cornucopia, whose two nearest dams average thirty pounds butter, and six nearest dams twenty-five pounds in seven days at head of herd. Prices moderate. Send for sale list.

WOODLAWN FARM, STERLING, ILL.

HOLSTEIN

HEIFERS—COWS—BULLS
Anything you want and at popular prices.
W. R. GATES, Fort Atkinson, Wisconsin.

Holstein-Friesian Bulls

WE have bulls of serviceable age and bull calves for sale; fine individuals, well bred and well grown. Their dams are all heavy producers.
JESSE R. ELLIOTT, WOODWARD, IOWA

AYRSHIRE CATTLE.

Ayrshire Cattle

YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. Fred Tschimly & Sons, Monroe, Wis.

When writing to advertisers please mention this paper.

HOLSTEIN

BULLS

TWENTY sons of Reka Ormsby Duke for sale. This splendid sire is a grand son of Homestead Jr. De Kol and Duchess Ormsby and therefore combines blood of the two greatest families in the breed.

Albert Babler, Jr., Monticello, Wis.

HOLSTEINS

LAKE MILLS, WISCONSIN

100 HEAD to select from, bred from the leading strains. Parties wanting bulls or females to improve their herds, write us, we can supply you. High-grades in car lots picked up on short notice.

WM. EVERSON & SONS

MAPLE LANE Holsteins

MALES and females for sale. Herd numbers eighty head. Tuberculin tested. We guarantee our stock. T. J. BARMORE, Monroe, Wis.

ABERDEEN ANGUS CATTLE.

Angus Bulls For Sale

WE are offering a splendid young Blackbird bull for sale; also one Jilt, one Pride and one Sybil. These are choice and we are pricing them right. Address Isenbarger Bros., Battle Creek, In.

ABERDEEN Angus bulls for sale. We have as fine a lot of young bulls for sale, from 1 to 2 years old, as can be found anywhere. All of the fashionable families, and can suit the most particular buyer or anyone wanting a good bull at a reasonable price. Located 17 miles east of Des Moines on C., R. 1. & P. and I. O. Rys. R. Wilkinson & Sons, Mitchellville, Ia.

ALFALFA HERD ABERDEEN ANGUS
Erics, Blackbirds, Prides, Queen Mothers or sale. Harrison & Harrison, Indianola, Neb.

Guthrie's Combination

AUCTION

IN STEAM HEATED FAIR GROUND PAVILION
NEWTON, IOWA
THURSDAY, JAN. 20, 1910

Percheron and Shire Mares

The lot includes 15 choice recorded mares, all of breeding age and safe in foal; one good two-year-old Percheron stallion and two young trotting-bred stallions.

30--SHORT-HORN CATTLE--30

Twenty-five cows and heifers of breeding age and all safe in calf. Quite a proportion of them are Scotch, of the Generosity, Butterfly and Golden Drop families, and the remainder have good Scotch top crosses. Two of the bulls are of good Scotch breeding. A portion of the cattle are consigned by Ray Carrier.

Registered SHROPSHIRE EWES

The consignment of sheep is an extraordinarily good one, 55 head or more. More than half of them are spring lambs by the imported ram, Clover Hill's 396 (08008 R.), and none are of advanced ages. All are bred, many of them to the ram mentioned.

For catalogs, write to the address given below.

A. T. GUTHRIE, NEWTON, IOWA.

Cols. McGuire, McCord and McMurray, Auctioneers.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

(COMPRISING the allied herds of P. J., M. H. and Mike Donahue, of Holbrook, Iowa, and P. Leahy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Krics, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 24. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

INVERNESS

ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Kunitize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, - IOWA CITY, IOWA

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thickset Blackbird. 10 young bulls by Glenfoel Thickset, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfoel Thickset, priced right for quick sales. Farm in city limits. O. V. Buttles, Maquoketa, Iowa. W. P. Brown, Herdsman.

ABERDEEN ANGUS BULLS

I have a number of high-class young bulls for sale of the Blackcap, Blackbird, Trojan Erica and other famous strains. Address H. L. CANTINE, QUIMBY, IOWA.

ANGUS BULLS, COWS AND HEIFERS

8 BULLS for sale, some of them 2 years old. They are sired by top bulls and out of one of the best cow herds in the state. I have 1,800-lb. cows as good as can be found. All the leading families represented. Call or write A. G. Messer, Grundy Center, Ia.

RED POLLED CATTLE.

Wiles' RED POLLS

CHIEF STOCK BULL—GLOSSON 13280.

For sale—Several good bulls and females from very fine milking families and great fleshers. Prices right. Call on or address LUKE L. WILES - PLATTSBOROUGH, NEB.

When writing please mention this paper.

RED POLLED CATTLE.

Bulls Bulls Bulls

Seven half-brothers to MIDNIGHT, champion bull at three leading state fairs, 1909. These bulls are a handsome lot and priced worth the money. Write for descriptions and prices to

Dan Clark Stock Farm, Cedar Falls, Ia.

SEAMAN'S Red Polled Cattle. 50'h'd, the equal of any ever sold in Ia. 7 yrlg. and 2-yr.-old bulls, 40 to 50 cows and heifers of the greatest milking families known to the breed. Part of the old W. H. Seaman herd, Davenport, Ia. Visitors can be shown 125 head of as good Red Polls as can be found in U.S. Gus C. Seaman, R. 5, Davenport, Ia. Telephone to farm.

SPECIAL OFFERING OF RED POLLS

SIX young bulls sired by Ben 14305 for sale. Ten heifers sired by Jerome 10505 and bred to Roger 18555, priced right. My herd is noted for heavy milking qualities. Write for full information concerning herd. Carl H. Van Evera, Davenport, Iowa.

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

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GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Wm. M. Smith & Sons, West Branch, Iowa.

WE HAVE FOR SALE 48 Head of Short-horn cattle, 36 females and 12 bulls, half pure Scotch, including imported cows, 12 head bulls, Scottish Fame and Col. Carval. We have 24 head of Percheron stallions and mares, three yearling studs, three stud colts, 18 mares and fillies. Will sell any or all. Address Smith & Barnhart, South English, Iowa.

CHAS. C. NORTON, CORNING, IOWA,

11 AS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Holt's Short-horns in Dispersion

AT FEED YARD

FALLS CITY, NEBRASKA, WEDNESDAY, JANUARY 12, 1910

50 Head---40 Females, Many Scotch---10 Bulls and 10 Calves

DOUBLE GOODS, a Cruickshank Brawith Bud, is an attraction worthy of the consideration of any breeder in America. Individually carries the substance, mellowness and constitutional vigor of his sire, and a great promise for a herd bull. He is a double-bred Choice Goods and a worthy one. Prince Silene and Silene's Duke are a couple of youngsters, half brothers to Good Choice, that are outstanding. These are got by Sulmo, a great breeding Scotch bull by Imp. Daydream's Pride. Of the cow offering about one-half are Scotch. Lady Myrtle, the dam of Double Goods, she by Choice Goods; 3d Lady Myra, her dam, and a great breeding cow, Silene 2d, the dam of Bellows Bros.' great herd bull, Good Choice, and her daughter, Silene's Goods, a full sister to Good Choice; Red Bird, Queen Secret, a great Cruickshank Secret, and a number of Duchess of Gloster females make up one of the cleanest offerings to be sold this season. Every animal is guaranteed also, and every cow of breeding age will either have calf or well along. Secure a catalog, now ready, and plan to attend the sale. Will sell 50 Berkshire sows at same place, February 15, 1910. Write me now. Address, mentioning The Homestead,

Col. Geo. P. Bellows,
Auctioneer.

W. R. HOLT, FALLS CITY, NEB.

SHORT-HORN CATTLE.

35 SCOTCH SHORT-HORN BULLS

FOR SALE--From one to two years old, of the blocky, beefy type; herd leaders also. 25 heifers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address

L. BARR & SON, DAVENPORT, IOWA.

LEAVING THE FARM

OUR farm manager, having been with us fifteen years will leave March 1st, so we are obliged to sell our entire herd of registered Short-horns. We have used sires of Golden Rule, the great H. F. Brown bull, Imported Mable Chief, \$3,000 sire, March Knight, owned by N. P. Clark, another Imported Craibstone Victor. This herd numbers about sixty head and will be sold for one half the actual cost, at private sale. A rare opportunity for someone to own one of the choicest lots in Wisconsin. Address D. C. Coolidge, Downing, Wis.

Scotch and Scotch-Topped Short-horn Cattle

IMPORTED JERSEY CATTLE

Imported Percheron and Clydesdale Horses

IMPORTED and fashionably bred Short-horns, headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited. **White Bros., Centerville, In.**

Phillip Funke, Greenfield, Ia.

BREEDER OF

Scotch and Scotch-Topped Short-horns

I am offering a splendid lot of Scotch bulls for sale of Orange Blossom, Dainty Dame, Fleur de Lis, Mina and Strowan Buttercup tribes. I am pricing these bulls right. Write or come and see me.

S. H. Thompson's Sons

IOWA CITY, IOWA.

WE will sell 15 head Scotch Short-horns in conjunction with Messrs. Smith & Barnhart, at West Liberty, Iowa, Jan. 5, 1910. Have a splendid lot of Scotch bulls of most fashionable families, at private sale. Write for descriptions and prices.

WILDWOOD SHORT-HORNS

2 SCOTCH and 2 Scotch Topped bulls, 12 to 16 months old for sale. Also the grand breeding bull, Headlight, by Imp. Red Knight, dam Imp. Strawberry Girl. All are growthy bulls with much natural flesh and they will be priced right. Visitors always welcome. Address

W. W. VAUGHN - MARION, IOWA.

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns.

HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address

GEO. H. WHITE, EMERSON, IOWA.

Springdale Stock Farm

OFFERS in short-horn bulls by Bar None and Julius Victoria; also a few fine cows and heifers. We guarantee everything we ship. Write, or visit

W. J. Hather - Ord, Nebraska.

Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all reds; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at five and let-five prices.

R. M. Young, Cook, Johnson Co., Nebraska.

SCOTCH BULLS

I have for sale several richly bred and splendid individual bulls, reds and roans. The herd is headed by the Scotch bulls, Ringmaster and Choice Prince. Nine straight Scotch bulls, two Scotch topped, now ready for service. Farm adjacent town. Address

G. H. GEORGE - MONTICELLO, IOWA

BATES BULLS

SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd leaders. Bred from milking strains. Send for my bull catalog. Address **O. M. HEALY, BEDFORD, IOWA.**

BREEDERS AND ADMIRERS OF Double Standard Polled Durham Cattle

GENTLEMEN:--

You are all most cordially invited to attend my Dispersion Sale of Double Standard Polled Durham cattle, which will be held in the large sale pavilion at CARROLL, NEB., on FRIDAY, JANUARY 14, 1910. While I regret to part with this herd of Polled Durhams, yet it will be a pleasure to have lovers of the breed, or lovers of any good cattle, attend the sale and pass judgment on their value, for I have been assured by competent judges and by the field men that there is no better herd to be offered at public or private treaty. In buying the foundation stock, I purchased only large cows of most pleasing individuality, and by selection and good care and feeding I have gradually improved both the size and the quality. Each animal is intensely bred in Polled blood, many of them having four or more tops. The Scotch families represented are Orange Blossom, Golden Drop and Duchess of Gloster. The American sorts are the ever popular Young Mary, Rose of Sharon, Crocus, Belina, etc. I expect to have practically every animal in good sale condition; not stuffed, but in such shape that they will not need any excuses, and you will be pleased to have your neighbors see your new purchases. The bulls are of good size and quality, so that it should be an easy matter to select a herd bull. There is only one cow with horns, and only two of the young things have even so much as scurs.

John A. Heeren and Burress Bros., of Carroll, consign seven head, including one herd bull. In all there are nine bulls cataloged. For the most part there are cows of breeding age, but there are a few heifers too young to breed.

The usual terms and guarantee will be given. Col. Bellows will occupy the block. Again, I extend to you a most hearty invitation to be with us sale day. Come; we will show you good cattle. Ask for a copy of the catalog.

Yours very truly,
W. H. BILLETER, CARROLL, NEBRASKA.

I will also sell two large black Percheron stallions that are two years old.

SHORT-HORN CATTLE.

We Want Registered Bulls

SHORT-HORN, HEREFORD, GALLOWAY and ANGUS cattle sold on commission. We need bulls at once to fill our orders. Write us immediately and consign your bulls to us at once. Address

A. J. BRAGONIER & SON, SOUTH OMAHA, NEBRASKA.

Plain View Stock Farm

6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address

GEO. A. HANS, NEWTON, IOWA.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, **JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.**

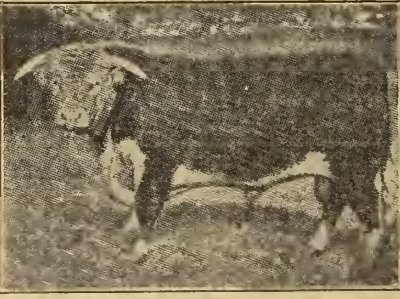
HEREFORD CATTLE.

FIVE YEARLING AND TWO-YEAR-OLD HEREFORD BULLS FOR SALE

These bulls are intensely bred in Anxiety 4th, Corrector Dale and Earl of Shadeland 41st blood lines. They will be sold at bargain prices for this quality of cattle. Come and see us at the farm at Ryan, Ia.

CARROTHERS BROS., RYAN, IOWA.

MENTION THE HOMESTEAD.



Polled Herefords

WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.

Warren Gammon & Son, Des Moines, Iowa.

Originators of Polled Herefords.

High-Class Hereford Bulls FOR SALE

A FEW good two-year-old Hereford bulls, 20 yearling bulls or under. The two-year-old bulls all sired by Perfection Yet, a bull exported to South America. Herd headed by Improver's Hesiod 107727 and British Captain 283067, a son of Imp. Britisher, out of an Anxiety Monarch dam. 100 head in herd.

D. S. O'Leary, Prop., Iowa City, Iowa.

15 HEREFORD BULLS

FOR SALE, from 12 to 30 months old, sired by Advance 129531 and McKinley 95219. Address

Z. T. KINSELL - MT. Ayr, Iowa.

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ABNEY'S Prize-Winning Galloways.


HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, 1da 3d of Otee and other cows equally well known. Write your wants; we can suit you. **A. G. Abney, North Loup, Valley Co., Neb.**

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CHAMPLIN BROS.

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Percherons, Belgians, Shires and French Coachers.



WE can show the best lot of horses for the money that have ever been offered by any importing firm. Good young ages, solid colors, style, boue, action and size. Prices right and terms the most liberal. See us before you buy, as by our modern selling methods stallions are bound to pay for themselves with practically no expense on the buyer's part. Our former patrons are our best boosters. Write for any information you may desire and plan to visit us. Our barns are in the city.

Champlin Bros., Clinton, Ia.

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THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY."

Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.

W. J. BUTLER, OTTAWA, ILLINOIS.

Long Distance Phone.

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PERCHERONS, Belgians, German Coachers

AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

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30 HEAD imported Clydesdale and Percheron stallions and mares for sale. High-class horses at farmers' prices. Will sell teams of mares, fillies or two and three-year-olds. Horses handled right on my farm. Can save you middlemen's commissions. Address

R. O. MILLER - LUCAS, IOWA.

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Fifty head of imported and home-bred mares, two to six years old, bred to the best sires. Ten head of stallions, one to three years old. They are the right kind and priced right. Come and see and you will buy.

WELCH & PECK, LEXINGTON, ILL.

Double Standard Polled Hereford Bulls

WE have for sale, of serviceable age, a few extra good Polled Hereford bulls; also a few with their horns on, ages from 12 to 24 months, of the Anxiety and Lord Wilton strains. Write for prices and descriptions to Obrecht Bros., Havelock, Iowa.

WHEELER'S TABLE-BACK HEREFORDS

25 Bulls and 25 cows and heifers. I have sold my farm and they must be sold. You can buy them at beef prices. Do not wait to write. Take the first train to Harlan. **W. W. Wheeler & Son, Harlan, Ia.**

Polled HEREFORDS

THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

J. W. WYANT, BLYTHEDALE, MISSOURI

B. W. GREGORY, HARLAN, IA.

Breeder of HEREFORD Cattle

I have a few choice young bulls for sale at private treaty. Write, or come and see me.

When writing to advertisers please mention this paper.

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1878 TRUMANS' CHAMPION STUD 1909

100 Shire, Percheron, Belgian and Hackney Stallions 100

ELEVENTH IMPORTATION SINCE AUGUST, 1908, ARRIVED SEPTEMBER 27, 1909.

OUR WINNINGS AT 1909 INTERNATIONAL:

Grand Champion Shire Stallion.
 Champion three-year-old and over Shire Stallion.
 First, Second, Fourth, Fifth, aged Shire Stallion.
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 Second, Fourth, two-year-old Shire Stallion.
 First and Second, five best Shire Stallions.
 Grand Champion Shire Mare.

First, Second, Third, aged Shire Mare.
 First, Second, Fifth, two-year-old Shire Mare.
 First, Second, three best Shire Mares.
 First, Shire Mare and Colt.
 Gold Medal (English) Shire Stallion.
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 SEVEN SILVER CUPS.

50 IMPORTED SHIRE MARES FOR SALE. Address for catalog and other information, mentioning this paper when writing

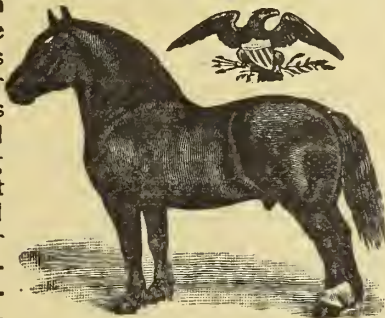
TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October and one in November. Another shipment will arrive before the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

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THE CLYDESDALE SPECIALISTS

HEADQUARTERS of the breed in America. More prizes at nine Internationals than any competitor. Two importations this year. We can buy better, we can buy cheaper, than any. Our expense is much less. We want less profit. We also breed them. Eventually, if not now, these facts must appeal to you. Your own interest demands it. Come and see. Wire or write us.

STATIONS—JANESVILLE OR AVALON.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

FRANK L. STREAM, Creston, Iowa.

Percheron and Belgian STALLIONS and Mares Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot; 1/2 mile north of C. M. & St. P. R. R. depot. E. H. Knickerbocker & Son, Fairfax, Iowa.



LA FAYETTE STOCK FARM

ANNOUNCEMENT! The season for buying stallions has opened. We are ready for business with the grandest lot of uniform high-class horses ever offered.

PERCHERONS A great selection of blacks and grays, ages two to six years, with the bone, weight and quality, including every first prize-winner as well as other horses in the money at the 1909 Paris show, and the largest prize-winners at the American shows this year. Our entire lot of Percherons are the very best money will buy.

BELGIANS A most remarkable lot of horses of this well-liked breed, great big massive horses of wonderful good make-up. Stock horses that will produce the big market horses so profitable to the farmer. All the good colors, combined with other good qualities, that will suit a buyer for a Belgian.

SHIRES We have them in every way up to the standard of our other draft breeds, from the best blood in England. They stand out strong in all the points that go to make a good Shire horse.

GERMAN COACH AND HACKNEYS The right kind of a Coach horse is the Coach horse to buy, a German Coach or Hackney stallion from the La Fayette Stock Farm, where you have plenty to select from—a lot that have a national reputation in the show rings, east as well as west, for their excellence, for breeding purposes.

We offer over 200 head of stallions and mares of great merit at most reasonable prices and a good honest guarantee. Do yourself justice by seeing our horses before you buy.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.
 W. A. Dobson, Iowa Agent, 1374 21st Street, Des Moines, Iowa.

IF YOU WANT TO BUY A STALLION

—EITHER—

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any banker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer.

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. For the asking. Address BOX 63.

Belgians and Percherons

Second importation for 1909, sixty head, arrived August 10th; third importation, thirty head, December 8th

120 STALLIONS AND MARES

Upon my farms; my four barns full. Eight miles west of Cedar Rapids; two railroads; electric car every hour.

SEND FOR NEW CATALOG

HENRY LEFEBURE, FAIRFAX, IOWA.

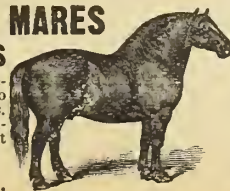


PERCHERON MARES

BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

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25 IMPORTED AND AMERICAN-BRED

Percheron Mares

At prices less than the cost of production. All acclimated and bred. Do not miss this opportunity to secure the best. None reserved.

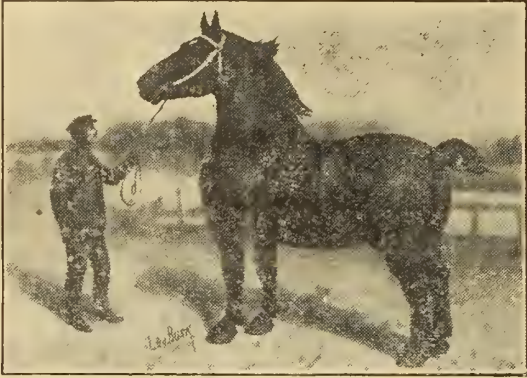
Holland Stock Farm, Springfield, Missouri. The largest importers and breeders in the Southwest.

HORSES AND JACKS.

PERCHERONS

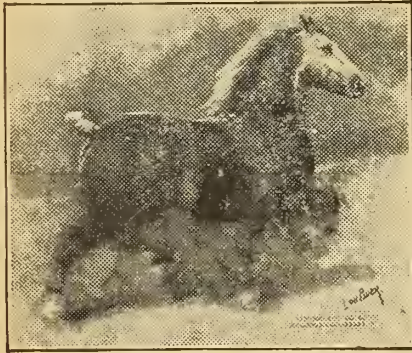
WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of this year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA.
C.O. Keiser, Keota, Iowa

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

DUNHAM'S PERCHERONS

Fourth large importation with in the year arrived Nov. 23d, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses—horses with bone, quality, size, action and best breeding, stallions or mares; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit

OAK LAWN
Catalog shows the place and the horses.
W. S., J. B. & B. Dunham, Wayne, Ill.

Fairview Jack and Jennet Farm

A FINE ASSORTMENT of the best MAMMOTH JACKS and JENNETS that grow 14 to 16½ hands high. JACKS WITH LOTS of BONE and SUBSTANCE. Everything guaranteed as represented. Prices right. Address

J. C. Huckstep, Eolia, Mo.



SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

Men writing to advertisers please men-

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IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and ex-



perience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address **GEORGE W. BILBO, CRESTON, IOWA.**

HORSES.

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450-HORSES-450

In Coliseum, Bloomington, Ill.

FEBRUARY 1, 2, 3 and 4, 1910

ON TUESDAY, WEDNESDAY, THURSDAY AND FRIDAY WE WILL SELL
350 Imported and Native Bred Registered Percheron, Belgian, French Draft, Shire and Clydesdale Stallions and Mares

150 HEAD of imported stallions and mares that will land by sale day.

100 HEAD of imported stallions and mares that have been here a year.

150 HEAD of the BEST registered mares that ever went in an auction ring.

100 REGISTERED Stallions

Of the very choicest of breeding and individuality.

FRIDAY, FEBRUARY 4, '10

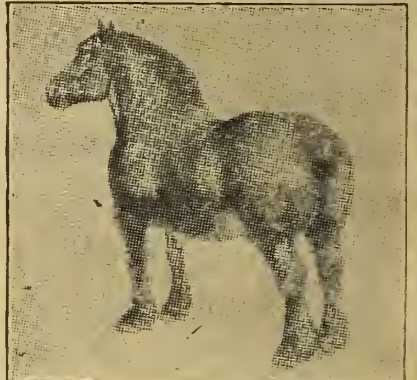
We will sell 100 head of registered trotters, grade draft, saddle and all-purpose farm horses, stallions, mares and geldings.

CONSIGNORS---Moots Bros., John C. Baker, A. M. Storms, Downs Bros., Miller Bros., W. S. Halane, H. I. Messinger, W. C. Baughman, O. R. Thompson, J. Wilt, John Yoder, M. G. Murray, Leemon Bros., Enos Stewart, W. H. Ritter, Sass Bros., D. D. Brotherton, J. W. Cavanaugh, W. H. Welch, T. Hix, Fred Musselman, Chas. Stewart, T. Stubblefield, W. A. Turnipseed, D. Augstin, Stream & Wilson, Wm. Zundahl, A. J. Dodson, Ralph Moore, Geo. Rasor, L. C. Wheaton, R. E. Johnson, Ed Hodgson, C. W. Funk, Rogers & Allen, John Taylor, Simon King, Dr. D. Sigler, L. C. Judy, G. B. Loper, Hemphill Bros., G. H. Behrens, Ewing & Tavenner and forty others.

CATALOGS READY JANUARY 15, 1910

BREEDERS' SALE COMPANY

C. W. HURT, MANAGER, ARROWSMITH, ILL.



PERCHERONS AND BELGIANS

IN looking for stallions or mares don't buy until you have seen what E. J. Heisel is offering, as he buys and sells every stallion himself. Your first purchase at this establishment means another life-long, satisfied customer. Some of the best stallions and mares that were imported to the United States are in the importation which arrived August 10, 1909. Address all correspondence to



E. J. Heisel, Fremont, Mahaska Co., Iowa.



PERCHERONS, SHIRES, BELGIANS

100 HEAD of imported Stallions now in our barns to select from. The best that money could buy in the old country. We invite inspection. Write for our new catalog. It will show you over 60 kodak pictures of the stallions now in our stables.

Watson, Woods Bros. & Kelly Co., Lincoln, Neb.

Imported Percheron and Belgian stallions and mares, with size, quality and action; develop from 1,700 to 2,300 lbs.; do not handle any but the best and reliable stock that makes friends after sold. Price them to sell with good guarantee. Inspection invited. Joe Rousselle & Son, Seward, Nebraska, 29 miles northwest of Lincoln, Nebraska

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$650 each.

A. Latimer Wilson, Creston, Iowa.



FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. ½ ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

FRANK IAMS' XMAS HORSES

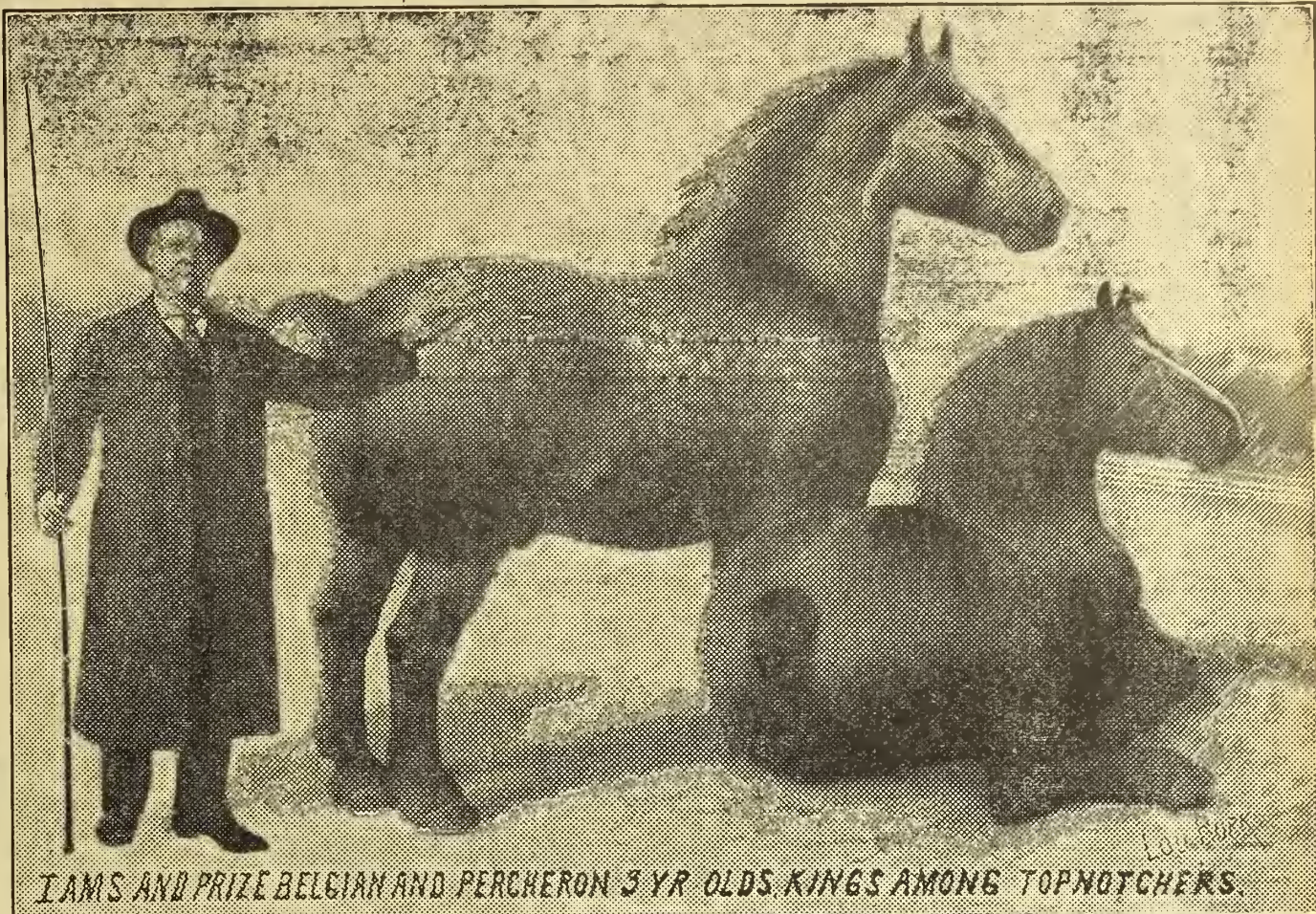
Are "real peaches and cream" "top-notchers," "winners and sons and daughters of winners." His mammoth "horse emporium" at the good old "Quaker town" of St. Paul, Neb., is an "eye-opener." His daily "horse show" is a "stunner." Better than any "International show." Worth taking your son (or your sweetheart) 2,000 miles to see. Iams is a "big fly in the ointment" in the "horse business." He cuts a "wide swath," sells horses and has "all competitors skinned to a frazzle." Iams sold 200 horses in 1909 and saved buyers \$200,000.00. In 1910 he will save buyers \$300,000.00 and sell them "real drafters," so good that he don't resort to the "auction block" or "peddling business" to sell "Iams' kind." Iams' 1909 importation of

"200 PERCHERON and BELGIAN KINGS and QUEENS"

are ready for a good selling at bargains.

This is what Xmas Ikey and uncle Hiram said after doing business with Iams for 5 years, buying 5 stallions and 10 mares that have bought them "another farm" and a "new house" and "diamonds" for Mary.

Xmas stallion buyers—Iams is the "live-wire horseman." He has "the goods as advertised." He is the "man behind the dough" that "shows you" more first-class "big ton drafters" with big bone, quality and finish than can be seen at any importing barns in the United States for "money or chalk." "Xmas Ikey Boy" "waltz me around again" and land me at "Iams' horse box-office" and "4 mammoth horse barns," "filled to the roof" with imported stallions and mares at "bargain prices," and I am "nervous" to see



IAMS AND PRIZE BELGIAN AND PERCHERON 3 YR OLDS KINGS AMONG TOPNOTCHERS.

IAMS' XMAS HORSES. THEY ARE "HIGH CLASS"

Iams' 1909 importation of horses, which is the largest bunch and best lot of big-boned, big drafters ever imported by one man to the United States. Yes, "papa, dear," Iams is a horseman in a class by himself and 10 years in the lead. "He stirs up the buyers," "hypnotizes" them with big flash horses at fifty cents on the dollar. He cuts the middle out of prices on "top-notchers." Iams' 27 years of successful business makes him a safe man to do business with. Iams actually sells more horses than any ten importers in the United States, but he "don't want the earth and fence around it" for profit on one stallion.

Farmer horseman—be a "foxy stallion buyer." Don't let any "hammer knocker" "hand you a lemon" by selling you a "\$1,200 stallion" for \$3,000. Write for

IAMS' 1910 MILLION DOLLAR HORSE CATALOG

and eye-opener. It is a diamond in the rough. It will show you "Iams' kind"—the wide-as-a-wagon drafters. The real "peaches and cream" imported stallions and mares that "cut a bunch of ice" in the U. S. It will "show you" the tricks of "stallion peddlers" and "auction block salesmen," and why you should buy horses of Iams. It is the finest, most original, elaborate, up-to-date "horse-book" in the world. (Just out) "A Bunch of Gold."

An imported stallion will make you \$1,000 in service fees in 100 days. Not in the world's history have horses been so high in price, or so scarce. Farmers, "get into Iams' band wagon," breed big drafters. All railroads lead to

"IAMS' STALLION AND MARE EMPORIUM"

He is the largest individual owner, importer and breeder in U. S. Send him an order for a stallion and two mares; you will buy better horses for the money than you would select yourself. He is "selling peaches and cream" stallions at

"SPECIAL PANIC PRICES FOR 90 DAYS"

saving buyers \$1,000 on a "top-notcher." He guarantees to show you the "best bunch" of big, sound "imported stallions" and mares owned by one man in U. S., and horses you will wish to buy, or pay you \$500 for your trouble to see them. Iams' "town of barns" is filled with fresh importation of 200 Percheron and Belgian Stallions and Mares, 2 to 6 years old; weight, 1,700 to 2,500 pounds; 90 per cent blacks, 60 per cent ton horses. (Pedigrees do not belong to horse unless he or she is branded.) Iams' imported stallions and mares are registered and branded and are "business propositions" that "jar the cherries" on a wide-awake horseman's hat. They are WINNERS OF EIGHTY PRIZES AND MEDALS at Paris and Brussels. "Sit up and take notice."

Iams sells "Show Horses" that will take the mortgage off

the farm and a "little bit more." For twenty-seven years Iams has "bumped the heads" of "stallion peddlers" with better and larger stallions, forcing the importer and breeder with inferior stallions and mares to sell them on the "auction block" as the last resort. And, Mr. Ikey, no first-class stallions or mares are ever sold by "peddlers" or on the "auction block." Iams guarantees to sell you a

"BETTER STALLION AT \$1,000 TO \$1,400"

(a few little higher) than are sold to Farmers' Stock Companies at \$2,500 to \$4,000. Imported mares as good as grow, \$700 to \$1,000, in foal—the kind that bring colts that sell at \$500 at six months old. Many first-prize and sweepstakes winners. Iams has reduced the prices on "show horses" \$100 to \$500 each. "It's not because your name is Maud" that Iams tells you in his "ads" of money he will save you. He wants your business; that's why he advertises. He wants you to smile on him with a visit. He will make the "wheels of business" go round.

IAMS CAN PLACE \$1,500 INSURANCE

on his stallions. He is an "easy" man to do business with, and his horses are so good they sell themselves. You say "why can Iams sell better horses at half the price of others?" Iams buys and sells every stallion himself at his home barns. He buys stallions by "special trainload" 200 at a time. He speaks the languages, saving 30 per cent.

IAMS IS NOT IN THE "STALLION TRUST"

saving you \$300. He pays no "slick salesman" \$1,000 to sell you a fourth-rate stallion. He gets busy himself and sells more stallions than any ten men in U. S. He does not hire 50 horse salesmen; he sells every stallion himself. He has no two to ten partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions. He sells stallions by "hot advertising" and having the goods to make every statement good. Iams sells stallions so good that they do not need a "slick peddler" or the "auction block" to sell them. Iams will save you \$1,000 or more in middlemen's profits.

ALL IAMS' "SHOW HORSES" AND "PETS" ARE FOR SALE

None reserved. You won't get away from Iams with money or bankable notes. He has his "selling clothes" on daily. 60 per cent of Iams' horses sell at \$1,000 to \$1,400, and 40 per cent a little higher. Imported mares, the best in the land, sell at \$700 to \$1,000. "Special prices" made at my barns only on one or a bunch of horses. Iams' guarantee is backed by "HALF MILLION DOLLARS."

ST. PAUL, NEBRASKA.

HORSES AND JACKS.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians so we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the highest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners.

We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

100 RHEA BROS.' ACCLIMATED PERCHERONS 100

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

ARLINGTON, NEB.,

Percheron Stallions

WITH SIZE AND QUALITY

PLENTY of bone and good action. That's my specialty, and I can suit the man who wants a good stallion, as both the horses and my prices are right. **COME TO SEE THEM** and you'll buy, because you'll not be able to get better bargains anywhere else. I have a choice lot of stallions for sale now—home-bred and imported horses, carefully selected in France. Inspection especially asked. Notify me and I'll meet you at Ames. Farm 7 miles N. E. of Ames.

S. B. FREY, AMES, IOWA.



The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on Imported Clydesdale Stallions and Mares; also a few choice bred hackneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U. S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

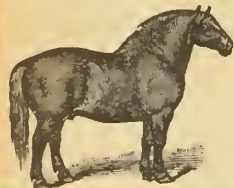
La Fayette is located on the C., R. I. & P. Railway, forty miles northwest of Peoria, Illinois.



REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES

WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.**



CLYDESDALE MARES

I HAVE just received from Graham Bros., Claremont, Ontario, Canada, America's foremost importers and breeders of Clydesdales, two car loads of very choice, young, registered brood mares, imported and Canadian bred, with much size and quality and of good ages, all bred and many now showing heavy in foal. To move them quickly I am making very attractive prices on a limited number of these good mares. It will pay any intending purchaser of one or more registered mares to see them before buying.

LEN H. LAMAR - - STORM LAKE, IOWA.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



Shires, Clydes, Belgians, German Coachers

OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing these where every farmer can buy. Come and see us. Address: **Imben Harrison & Son, Prescott, Iowa.**

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

**RENO & MORRISON,
BATAVIA, IOWA.**



CHESNUT STUD FARM PERCHERON STALLIONS AND MARES

TEN head of stallions and mares for sale, ranging from 2 to 5 years of age. Home-bred horses, \$500 to \$1000. Write, or come and see me. Address **L. C. BARNETT, INDIANOLA, IOWA.**

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. **Frank L. Stream, Creston, Iowa.**

Shires and Welsh Ponies

OF the best type and most popular strains of blood can always be found at my stables. It is the **Breeding Ring** and not the **Show Ring** that tells the story of **Profit or Loss**. Of the many hundred stallions imported by me in the past **35 years, over 95 per cent** have been satisfactory breeders. I have now added to my line of imported horses, the true

WELSH MOUNTAIN PONY

FOR FULL PARTICULARS, ADDRESS

GEO. E. BROWN, AURORA, ILLINOIS.

Aurora is 37 miles from Chicago by C. B. & Q., C. & N. W. and also by trolley; trains every hour. Also connected by trolley with Joliet, Geneva and De Kalb, and with Ottawa by the Fox River Line.

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS

WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

**FORD & HARRINGTON, PARKER, SOUTH DAKOTA.
FAIRBURY, ILLINOIS.**



Ensign's PERCHERONS

OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write

**S. A. ENSIGN, CLEGHORN, IOWA
C. A. PINGEON, Sale Manager.**



M. L. AYRES, SHENANDOAH, IOWA

Thirty Years a Breeder and Importer of

PERCHERON HORSES

A FINE selection of young two and three-year-old home-bred stallions for sale. The noted Brilliant bred stallion, BLANDE 36577, at head of stud. Anyone looking for a herd heading stallion will do well to patronize me. For bone, size and quality our stallions are unsurpassed. 125 to 150 head of horses on the place all the time. Come and see them or write for full particulars, mentioning The Homestead.

PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 15th. **Ernest L. Humbert & Son, Corning, In.**



Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1908 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.



New Importation of Percheron, Shire and Belgian Stallions

EXTR weights, bone and quality; solid colors. Prices always moderate. Large assortment at each time. Come make your selection. **PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.**

I Have the Largest Jacks

IN the world, in both imported and home-bred, I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. **W. L. DeLOW, Cedar Rapids Jack Farm, Cedar Rapids, In.**



Shetland Ponies The cream of Scotland; any kind you want; we sell them reasonable. **CLARKE BROS., Anburn, Neb.**

Large Heavy Boned Mammoth Jacks

FOR SALE: from 15 to 16 hands high, for \$350 and upwards. Farm located 8 miles west of Cedar Rapids **JOHN HENRY FAIRFAX - IOWA**



When writing to advertisers please mention this paper.

When writing to advertisers please mention this paper.

100-TWO BIG SALES OF BIG POLAND CHINA SOWS-100

8th Annual Sale on Farm Near Blockton, Iowa, January 25, 1910

J. H. WINTERMUTE and FRED ROOD will put into this sale an extra consignment of fifty of the best of great big growthy sows. Ten are matured and tried breeders, ten are fall yearlings and thirty are spring gilts. They are the get of JUMBO 81591, R.'s PAWNEE LAD 39941, DUDE'S WONDER 125269, BIG TYPE, BIG HADLEY 2d and 2d PAWNEE LAD. They will have been bred to SURPRISE TECUMSEH 13923, THOUSAND-POUND PROSPECT and old JUMBO. Every pedigree in this offering represents as much size and growthiness as can be found in any sale offering of the season. They will not be in high flesh but will be big because they carry the blood that makes them so. Our previous sales are a good promise of what buyers will find in this one. Come and see them, even if you do not want to buy. A few Short-horn cattle will also be sold. Col. H. S. Duncan, Auctioneer. Catalogs are now ready.

J. H. WINTERMUTE, BLOCKTON, Iowa

Annual Brood Sow Sale at Mt. Ayr, Iowa, January 26, 1910

T HIS lot will be made up of about fifty head. Half a dozen or more will be tried brood sows, good enough for those who want the best, a few fall yearlings and the remainder March gilts that are as good as I have ever sent forward to a sale. They are uniform in make-up and with a growthiness that must recommend them to all who want size. Most of the gilts are by 2d PAWNEE LAD 47788, a boar with size and quality that entitle him to consideration in any company. Three are by BIG HADLEY 2d, a boar whose blood lines trace to some of the best the breed has produced. Most of them are bred to GIANT JUMBO, whose pedigree runs directly to CHIEF TECUMSEH 3d, the foundation of much of the size of the breed today. He is a big fellow and as good as he is big. Col. H. S. Duncan, Auctioneer. Catalogs are now ready and tell all about it. Please mention The Homestead when writing for catalog. Address

J. A. STEPHENSON, MT. AYR, IOWA.

HORSES.

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES



We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLY & SON, LEWIS, IOWA.**

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE

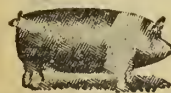


My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. **Nothing for sale at private treaty.** 50 bred sows will be sold in my sale January 29, 1910. Write for catalog.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, **E. C. STONE, ARMSTRONG, ILL.**



HAMPSHIRE SWINE

SOME fine young boars fit to head any herd, for sale at reasonable prices. A few grand, good gilts for sale, which we will breed for March and April farrow. Order early and get first choice. We ship over C. R. I & P., C. B. & Q. or N. W. R. R. For prices, address **WOOD & WESCOTT, SHEFFIELD, ILLINOIS.**

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**



WAYSIDE HAMPSHIRE

WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead. **MIKE SHARP, COAL VALLEY, ILL.**

HAMPSHIRE SWINE

Stock of all ages for sale and of fashionable families. Write **GEO. LIPPERT, Magnolia, Illinois**



25 Head of Spring Boars
5 Head of Yearling Boars
All good ones and guaranteed breeders. Prices reasonable.

H. D. DeKALB, DeKALB, IOWA.

We Have for Sale

Spring boars ready for service, sows either bred or open, young pigs in pairs or trios no kin, a fine bunch of gilts either bred for spring or open; prices reasonable. Write us before you buy.

L. C. MILLER & SON, R. 2, Canton, Illinois.

POLLED DURHAM CATTLE.

Clovermead Polled Durhams for sale. A few bull calves, cows and heifers; quality and prices right. **Wm. Barrans, Lenox, Iowa.**

Schug's Big Poland Chinas

AT PUBLIC AUCTION

COLERIDGE, NEB., SATURDAY, JANUARY 22, 1910

45 HEAD Included in the sale. Nine of them are tried sows that have always farrowed and raised large litters; 5 choice fall gilts and 31 growthy spring gilts of early farrow. The fall and spring gilts were sired by Monarch Chief and Hadley's Surprise. The sows were sired by such well known big boars as Miller's Tecumseh, Jewel Leader, King Sunshine (the sweepstakes boar), Long Chief and the great Dry Creek Chief. They are bred to Hadley's Surprise, Billy Victor, Chief Nelson, Big Dude and Chief Monarch. These aged sows will weigh close up to the 700-lb. mark, and the gilts close to 350 pounds; a few may go beyond. Free entertainment to visiting breeders. Parties wishing to leave over the Burlington will be taken to Belden free of charge. Catalogs now ready; write for a copy. **Come here for your big ones that are good.**

ROBT. A. SCHUG, COLERIDGE, NEBRASKA.
Col. H. S. Duncan, Auctioneer, E. T. Parker, Field Man.

CHESTER WHITE SWINE.

Iowa Herd of Improved Chester White Swine

40 Aged sows for sale, reasonable, sired by such noted boars as Monarch Jr., Jerry S., Captain, Col. Sutton, Chief Commander and Allright. These sows will be bred to White Rock and Christopher 1st; latter won first and champion, Iowa State Fair, 1908; first and champion, Nebraska and Illinois State Fairs, 1909. Also two aged boars and a number of spring, summer and fall gilts. If in need of anything in this line, write me today or visit my herd. 1 ship on approval; if not satisfied, no sale. Mention Homestead. **Thos. F. Kent (Successor to Geo. H. Lawshe), R. 2, Walnut, Iowa.**

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 2d 5165, champion Iowa State Fair, 1909, and Minnesota State Fair, 1908; and Modeler 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented. **W. F. HEMMERLING, DIKE, IOWA.**

SOLD OUT OF BOARS

DEMAND for more than could supply. Great need of more Chester White breeders in Iowa and Dakota. More good foundation stock cannot be found anywhere than will go in my **Closing Out Sale on Jan. 28, 1910.** The 12 yearlings are tops of the last year's herd and 35 gilts have been carefully selected and nothing but the best will be offered. Send for catalog to **A. A. ROGERS, INWOOD, IOWA.**

O. I. C. The World's BEST HOGS

Seventy-five boars from 100 to 200 pounds and fifty gilts, same weight, of leading prize-winning blood lines—big-boned, good footed and good backs. Bred sows and fall pigs—special proposition—under guarantee. Write me now. Address **I. M. FISHER, BOX H, HASTINGS, NEB.**

SCARFF'S O. I. C.'s

AM offering a fine bunch of O. I. C. males and gilts with extra length and bone, sired by sweepstakes boar, Norway Chief, and Ohio Chief. Prices \$20 and up. Write for descriptions. **J. T. SCARFF, SALEM, IOWA.**

CHESTER WHITES

FALL yearlings and early spring boars all sold. Write for prices and description of boars farrowed in May, 1909. Also gilts bred to farrow in April and May, 1910. **Isaac Arnold, Leland, Illinois.**

INTERNATIONAL HERD OF CHESTER WHITES

BOARS all sold. Have a fine lot of yearlings and gilts safe in pig to as good boars as money can buy. Anything you want sent on approval. **J. L. BARBER, R. 3, HARLAN, IOWA.**

CHESTER Whites. Gilts and sows bred to first-class males, to farrow in March and April at the low dollar. **E. J. Trumbauer, St. Charles, Iowa.**

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. **Fred Ruebush, Sciota, Ill.**

When writing to advertisers please mention this paper.

Mear's Chester Whites

4 fall boars and a great string of pigs by

NEPONSET ED. 16711

Are ready to ship any day. All are strictly high-class. Write or come.

E. L. MEAR, LAMAR, MO.

AMERICAN HERD OF IMPROVED CHESTER WHITES

Thirty choice spring gilts for sale, bred to Attractor 19289, a boar of extra length and bone, for March and April farrow. Call and inspect them or write for prices and descriptions. **ALDEN ANDERSON, RADCLIFFE, IOWA.**

BROOD SOWS—Reserving nothing but the aged

sows; will let go best stuff I have raised. Bred to such boars as Joker, that has won more premiums than any hog living or dead. A "Triumph" hog that sold for the largest price of any hog of the breed. Weighed at 19 months, 720 lbs., and two extra good young hogs. **J. H. Mahannah, North English, Iowa.**

Evergreen Herd Chester Whites

A CHOICE lot of gilts now on hand. The best I have ever raised. My prices are always reasonable. Write me at once. Address **W. H. DUNBAR, JEFFERSON, IOWA.**

MEHRING choice O. I. C., strong-boned, smooth, well-quartered gilts for sale; some fine Shropshire ewes; low price. **H. C. Mehring, Manson, Ia.**

When writing please mention this paper.

CHESTER WHITE SWINE.

25 FALL PIGS
FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Aledo Belle and Delta Girl. These pigs will be priced worth the money.
E. L. NAGLE & SON, Deep River, Iowa.

Crosier's Choice O. I. C.'s

AM offering the strongest lot of spring boars sired by Kerr Dixon and Kerr Solomon, and out of Kerr Garnett, White Oaks and other equally as well bred sows. Get price and description. Address Chas. W. Crosier - Audubon, Nebraska.

Two Good Chester White Herd Boars for Sale

THESE are May yearlings, or will exchange one for another herd boar. Also fall boars and choice spring boars for sale. Prices reasonable.
S. J. Philson - - - - - Harlan, Iowa.

CHAMPION CHESTER WHITE SWINE

Write me for choice stock of either sex for breeding stock, and show stock, a specialty.
F. P. WHITE, NEW HAMPTON, IOWA.

VANDERSLICE'S CHESTER WHITES

THE records of prize-winners are unsurpassed. See at Lincoln. We are pricing the tops of 60 growthy spring pigs and several fall boars. Write or call. Vanderslice Bros., Cheney, Nebraska. (12 miles southwest Lincoln)

I PAY EXPRESS

CHARGES and ship C. O. D. Choice Chester White bred gilts, no akin. Catalog free. Address B. M. BOYER, FARMINGTON, IOWA.

CHESTER swine. Only 3 male pigs left for sale; 20 good gilts. Will not ship poor ones. Write for particulars, prices. H. F. Gustoff, R. 1, Coon Rapids, Ia.

POLAND CHINA SWINE.

POLAND CHINA
BOARS

Ten choice boars weighing 150 to 200 pounds each, sired by MEDDLER U. S. and CHALLENGER. Every one a good one. None better bred. Prices reasonable. Write soon if you want one.
J. L. SLICK & SON
LANARK, ILLINOIS.

ELLERBROEK'S POLAND CHINAS

50 Bred spring and fall gilts of the large-boned, lengthy type. These gilts are bred to Giant 2d 151933, A Wonder 143421, Big Bone 2d 151743. Their sires are A Wonder Next 149557, A Wonder 143421, Long Price 2d 146679, and others. Their dams are by Chief Price, Longfellow 3d, A Wonder 107353, etc. Come and see my stock or let me know your wants. Farm adjoining 3 railroads, 2 blocks from depot.
PETER ELLERBROEK, SHELTON, IOWA

SELECT BRED SOW SALE
FEBRUARY 10, 1910.

BIG-TYPE Polands, with big-type blood lines, 20 tried sows, the largest and most noted of the breed. 40 big gilts, the progeny of the largest Poland boars and sows in the world. Bred to boars of equal merit, such as Big Ex., the 1,070-pound son of Pawnee Chief; Chief Price, the 800-pound yearling; Superior Look, the most noted son of Long Look. Send your address early for the catalog.
W. H. COOPER - - - - - HEDRICK, IOWA.

PIONEER POLAND CHINAS
HERD OF

PIGS sired by Adviser 140657, sire Corrector 63379, now at the head of my herd, and W. Z. Meddler 117287 by Meddler 9999. Some nice spring boars and gilts. Also the second prize spring gilt at the Iowa State Fair, 1909; her dam, Chief Tecumseh 3d. All will be sold at reasonable prices. Address
W. Z. Swallow & Sons, Route 1, Wauke, Iowa.

FOR SALE
6 Tried Sows

BRED to large-type boars, Maid's Longfellow and B King Leader. 20 fall pigs, either sex, for sale at \$18 to \$20. Sired by Maid's Longfellow and Choice Chief Price. Address
H. W. Miller, R. 2, Peterson, Iowa.

Poland China Bred Sows

WE have for sale some choice, tried, aged sows, bred for March and April farrow; also 25 growthy last March gilts, sired by several different herd boars, bred for March farrow. Write for description and prices. Bridgford & Nesbitt, R. 3, Aledo, Ill.

BIG 4 POLAND CHINA BOARS

BIG type, big litter, big bone, big quality. If you want one of that kind, come or write. Also Scotch herd bull for sale.
M. P. Hancher - - - - - Rolfe, Iowa.

100 POLAND CHINA

SPRING PIGS sired by King Corrector, Winning Perfection, Long Dude and Chief Tec. 4th, out of choice dams. For prices and further description write JOHN SCHMIDTKE, Reusens, Iowa.

GATES'

Duroc Jersey Dispersion

ON THE FARM 1 1/2 MILES SOUTHWEST OF
Sheldon, Iowa, Thursday, Jan. 20, 1910

40 HEAD in the sale; 8 tried sows and 32 gilts. The aged sows are daughters of Notcher's Model, Royal Triumph, Jumbo Giant and Star Marshal. 32 gilts are daughters of Longfellow, Sioux Chief, Bon Bon 2d, Royal Triumph, Custer's Top Notcher. They are bred to Longfellow and to Emperor Weiser by Budweiser. The Short-horn herd bull, Gay Champion, by Imp. Gay Lothario, dam Mina Lass 12th, is also included in the sale. Free entertainment at the Howard hotel for visiting breeders, and free transportation to and from the farm.
J. O. GATES, SHELTON, IOWA.
Col. Frank Meyers, Sheldon, Iowa, } Aucts. E. T. Parker, Field Man.
Col. F. O. Cabbage, Battle Creek, Iowa, }

Fessenmeyer's Big-Type Brood Sows

CLARINDA, IOWA, SATURDAY, JANUARY 15, 1910

30 Head high-class Brood Sows; 3 tried Brood Sows; one Fall Yearling, 26 choice Gilts; 8 head Fall Pigs (4 Gilts, 4 Boars) 30

Included in my sale will be the great brood sows, Pawnee Lady 2d, a granddaughter of old Pawnee Lad and Dumask, a daughter of old Peter Sterling. I am also selling a yearling daughter of Chief Price out of the great brood sow, Giantess 2d. There will be 26 extra choice, big-boned, big-type quality gilts, as good I think as were ever sold in Southwestern Iowa. Let me send you my catalog, so you can see what I am selling. Write for it at once. Col. H. S. Duncan, auctioneer.
H. FESSENMEYER, CLARINDA, IA.

POLAND CHINA SWINE.

FIFTY LARGE-TYPE, BIG-BONED BRED SOWS
25 EXTRA GOOD BOARS

TRIED sows, fall yearlings and spring gilts, sired by P. W. Giant, Hadley, Jumbo and Long King. Bred for March, April and May farrow to Hadley, Jumbo and Victor. Last named boar sired by Big Victor, second aged boar at Lincoln, 1909. They are smooth and well grown and in fine condition. Sold 900 head in seven years; shipped to eight states, many on mail order, with perfect satisfaction to buyers. Can furnish testimonials from all buyers. My herd boars are the tops of the best herds of the big type. Farm 1 1/2 miles north of town. Pedigree time of sale. Write name and address plainly to
F. W. MCINTYRE, Route 5, RED OAK, IOWA.

WELLMAN HERD OF POLAND CHINA HOGS
AND SHORT-HORN CATTLE.

25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August 2d and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd headers a specialty. 10 head of choice young bulls, 8 to 15 months old; all deep reds; sired by Masterlord 265763, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address
C. F. SHAFFER, R. R. 4, WELLMAN, IOWA.

Miller's Tecumseh 117017

1,000-Pound Boar heads my herd. I have a grand good lot of spring boars sired by him, also by Major Hadley and Multiplier. If you want the big type, big boned, stretchy fellows, write me or come and inspect my herd. Address H. PRITCHARD, WISNER, NEB.

50 Big-Type, Big-Boned Bred Sows

WE are offering 50 head of extra fine, big-type, big-boned, quality kind. These are sired by our invincible trio of big boars, viz.—W.'s Major, 45237, Young Look 4772, Pawnee Price 4771, and bred to above named boars and a grandson of Grand Look and Expansion. Twenty-one sows farrowed 210 pigs in 1909. For size, quality and prolificacy, these cannot be beaten. Guaranteed as described. Priced right. Call or write.
WILLIAMS BROS., Route 3, VILLISCA, IOWA.

PODENDORF'S BIG-TYPE
Poland China Bred Sows

I AM offering a splendid lot of strictly big-type, with quality combined, Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.
A. J. PODENDORF, LOGAN, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickest 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton.
HELD BROS., HINTON, IOWA.

Oakside Herd of "Monster Pattern" Poland Chinas

Herd headed by Monster Pattern (weight 360 pounds at seven and one-half months old, 800 pounds yearling, eleven-inch bone), Oakside Chief (750 pounds yearling, 900 pounds at maturity) and K. O. P. Ideal (size, quality and eleven-inch bone). Herd Sows large and prolific. The blood of Chief Tecumseh 3d, One Price, Blain's Tecumseh, Keep On and Chief Perfection 2d. Open and bred sows for sale at very close prices. Special low prices for quick sales. Ask for catalog and get posted. There is a "tip" in it for every prospective buyer. Direct shipping facilities. Address
A. S. JUCKETT & SON, Oakside Farm, R. 2, Fremont, Neb.

BIG VICTOR SOW SALE FEBRUARY 4

I WILL sell 45 head of big-boned, big-type Poland China sows in my February 4th sale, bred to Big Victor, Guy's Price 2d and Big Tom. Write me early for catalog. Address, mentioning this paper, D. C. LONERGAN - FLORENCE, NEB.

Twenty Registered Poland China Boars

ASO 20 gilts; of good length and big bone. Parents are mature stock; best breeding. Old customers are our references. Polled Durham bulls and heifers. 1 1/2 miles northeast of city.
P. S. & S. Barr, Box 11, R. 4, Davenport, Ia.

20 Head of Bred Gilts

OF the big type, bred to Big Price 154369, one of the good big ones. A Chief Price bred hog, with size and quality galore. Prices right.
SCHAIN & KEEP, ATLANTIC, IOWA.

10--POLAND CHINA FALL BOARS--10

JULY, August and September farrow; 60 to 125 lbs., sired by Max Dude (winner of first and sweepstakes at Nebraska 1908) out of Big King and Pawnee Lad sows. Choice \$15 for next thirty days.
L. R. McCLARNON, BRADYVILLE, IA.

BERKSHIRE SWINE.

PRINE FARM
BERKSHIRES

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address
George S. Prine, Oskaloosa, Iowa'

Choice Berkshires for Sale

LUSTRE'S Combination J. 2d, prize boar at Iowa State Fair, and gilts sired by him, open or bred; also two tried brood sows at reasonable prices
Orlando Jacobs - - - - - Mediapolis, Iowa.

When writing please mention this paper.

BERKSHIRE SWINE.

Aristocrat of Hogs

A \$50 sow that produces a litter of 8 pure Berks, two of which sold for \$67.50, is a good sow to tie up to.

BERKSHIRES

This is a type of Morgan Farm hog flesh—all purebred Berks. Morgan Hogs win laurels everywhere. Hardy and best of breeders. Command highest prices and biggest profits. 50 Bred Sows now ready for sale. Be sure and write before buying.
MORGAN FARM, Beloit, Wisconsin

Premier Belle's Duke
102620

GRAND champion boar Iowa State Fair, 1909. 20 spring boars by this noted boar, out of dams by Lord Premier 50001, and Masterpiece 77000. Priced to sell to quick buyers. Visit my herd or write.
J. W. OGLE, AMES, IOWA.

HOLT'S PRIZE-WINNING BERKSHIRES

THE records of leading state fairs show the superiority of my stock. Am pricing the tops of my boar crop by Matchless Premier and Governor, by a son of Imp. Lord Mating. Write for prices. Bred sow sale in February. W. R. Holt, Falls City, Neb.

DUROC JERSEY SWINE.

DUROCS

WE are breeding a string of sows and gilts for our winter sale that you'll like. All the popular blood lines. "Always trying to better the best." Watch this space—we'll tell you more about it.

C. W. HUFF, MONDAMIN, IA.

Duroc Jersey Boars \$20
\$25

Sired by King's Col., King Solomon, I Am a Crimson Wonder, Belle's Proud Chief and Model Chief 3d. These are special prices to close them out. Address August Hager, Avoca, Ia.

Beermann's Durocs

ALL sold out of boars. Bred sow sale January 19, 1910. The sows are doing well and will be in excellent shape by sale day. As good as best.
CHAS. BEERMANN, R. 5, Webster City, Ia.

J. O. REECE & COMPANY
ELDORA, IOWA.

OFFER an excellent lot of spring boars at farmers' prices. Sired by Gold Bud, he by Golden Rule and Iowa Notcher, he by Top Notcher. Write for particulars and descriptions.

10 Fall Boars For Sale

ASO a choice lot of spring boars and one great litter out of the great sow, Ohio Anna 8th. These are herd headers. Write me at once.
J. E. WEHR - PORTSMOUTH, IOWA.

GOLDEN BEAUTY 51083

FOR sale at bargain price. An entirely out of boars. Extra choice lot of gilts for sale, sired by Mayor Jr. Wonder, third prize senior boar, Iowa State Fair, 1907. Prices right. Address
H. W. Lineweaver, South English, Iowa.

REES' DUROCS

SPRING pigs, either sex, with size and quality. Sired by J. E.'s Chief 65007, Tip's Pride 71597, Investor 82487. Dams of equal breeding. Prices reasonable. Guarantees as represented. Address J. E. Rees, Grand Ridge, Illinois.

J. D. Wright, West Liberty, Ia.

OFFERS spring pigs of either sex at bargain prices. Fashionable families. Individual excellence to suit discriminating buyers. Write for prices and descriptions or visit herd.

DUROC JERSEY BOARS FOR SALE

6 YEARLING and fall boars sired by Crimsou King, a son of Crimson Wonder; 30 spring boars sired by Lafayette, Model Prince, Crimson King and other boars. Prices reasonable. Address
E. B. RYAN - - - - - NEOLA, IOWA.

Crimson Wonder I Am

GO out winter boars by this great sire now ready to go out. All of them crackers. Three fall boars by American Crimson Wonder. Nothing but show yard quality to offer. U. G. Davidson, Scranton, Iowa.

YOUNG'S DUROC JERSEYS

HEADED by Kants Crimsou, an outstanding boar of Kant Be Beat and Crimsou Wonder breeding. Will price good males of March farrow; also a fall yearling of great promise. Write for price and description. E. K. Young & Son, Havelock, Neb.

GOLDEN MODEL

THE noted sire of show yard winners heads my herd. A limited number of high-class boars for sale. Fashionable dams. Write your wants.
O. A. OLSON - - - - - MADRID, IOWA.

BROOD SOW SALE JAN. 25th

I WILL sell forty of the best Duroc Jersey brood sows in my Jan. sale that have ever been driven through a sale ring. Write for my catalog at once
C. E. VEAK - - - - - ESSEX, IOWA.

Frontier Duroc Jersey herd. Best breeding. Boars and sows of March farrow for sale at reasonable prices. Solon Elmaker, Batavia, Ia.

BRED sows for sale; safe in pig by Crimsou Rambler, Model Chief 9th and Crimsou King. Prices reasonable; sows guaranteed. Jno. Justice, Ankeny, Ia.

Duroc Jersey Sows and gilts, by an 800-pound sire, bred to a son of Muncie Chief. Address E. O. Smith, Winthrop, Iowa.

DUROC JERSEY SWINE.

KING ORION

CHAMPION boar, bred by Exhibitor, Iowa State Fair, 1909, heads my herd. Pigs sired by King Orion, Chief's Col. and Wonder Boy, for sale. Write me, mentioning The Homestead.

CHAS. COOPER, FERRIS, ILLINOIS.

COL'S KING

Full brother to CHIEF'S COL. and ARTHUR'S CHOICE

FIRST prize boar Illinois State Fair, 1907, head my herd. For sale—5 September boars by Arthur's Choice and 125 spring pigs, both sexes, sired by Col's King, Arthur's Choice, Inventor, Kelly's Pilot Wonder, Orion Chief, Locust Lane Chief and Joe Orion. Write for prices.

ARTHUR L. PARKS, IELAND, ILLINOIS.

FIRST PRIZE BOARS FOR SALE

KANT Be Beat Again, first prize junior yearling Ohio State Fair, 1909; sired by Good E Nough, dam Our Pride, a second prize-winner at St. Louis. Nuggett, first prize under year and junior champion Ohio State Fair, 1909; sired by Golden Rule, dam Cedarvale Queen 8th. He is a full brother to Good E Nuff. Write for prices and description. Mention The Homestead.

WATT & FOUST,

Cedarville, Ohio.

Xenia, Ohio.

MUNCIE CHIEF

LITTER mate to King of Colonels heads herd. Spring pigs by Muncie Chief, Nebraska Belle's Ohio Chief 71911, Savannah Belle's Chief I Am, and other noted sires.

A. P. ALSIN, BOONE, IA.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

S. E. EAKLE

PROPHETSTOWN, ILLINOIS,

Offers a great bunch of spring pigs by S. E.'s Model by Model Chief, Model Wonder, Col. King, Model Again, Nebraska Belle's Ohio Chief and Gold Cloud. Size, finish, bone and quality. Priced to move quickly. Write for descriptions.

HIGH-CLASS DUROC JERSEY BRED SOWS FOR SALE

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel boar. These are good. Will not hold a sale and am selling them privately. Address

J. D. McDERMOTT, WIOTA, IOWA.

Boars All Sold

We are breeding a splendid lot of sows to Golden Model, Proud Wonder and Golden Model I Am, for our brood sow sale, January 31st. Remember the date.

OLSON BROS., WOODWARD, IOWA.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY. Write Your Wants.

Herd Boar For Sale

ROYAL Advance \$1963 by I Am Proud Advance \$4843 for sale at a reasonable price. A great breeder of excellent individuality. Address C. E. LONGNECKER, MAXWELL, IOWA.

CRIMSON WONDER AGAIN

DUROC boars for sale—herd headers in type, style and finish. 60 spring pigs sired by Iowa Chief and out of Proud Advance dams. Some excellent fall boars for sale at farmers' prices.

C. O. THORNBURG, Pleasantville, Iowa.

20 DUROC JERSEY BOARS FOR SALE

AM offering some splendid boars for sale, sired by H. E.'s Choice Goods, Massena Chief, Iowa Critic, Iowa Model and Chief Matchless. Must sell, so am pricing them right.

Mark W. Eddy - - - Fountinelle, Iowa.

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banker 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows. VON SEGGERN BROS., WISNEI, NEB.

DUROC JERSEY SPRING PIGS

Sired by King Orion, Wonder Boy, Peter The Great and Bartlett's Tip Top. Prices reasonable. Correspondence solicited.

EVERETT BARTLETT - COLUSA, ILL.

NEBRASKA GRAND CHAMPION CIRCUIT

ROBERT M. YOUNG

SELLS AT FARM

COOK, NEBRASKA
JANUARY 11, 1910

I am putting in a select line of some 25 sows and gilts whose individuality and breeding are of the very best. Having used the well known sire Blue Ribbon Chief one of Ohio Chief's valued sons quite successfully, I am selling a number of his daughters and others bred to him, also several sows by or bred to Lincoln, a son of the Champion Lincoln Top. Big Polands—About 20 big, growthy Nebraska type Poland Chinas, having bone and quality. They are sired by C.'s O. K. for the most part, he the sire of Prince You Tell and are bred to a son of Big Hadley. Ten Scotch Topped Short-horn bulls of servicable ages. Send for catalog—now ready. Send bids to auctioneer or fieldman. Address

ROBERT M. YOUNG,
COOK, NEBRASKA.

PUTMAN & SONS

SELL 45 HEAD

TWO BLOCKS FROM DEPOT AT
TECUMSEH, NEB.
JANUARY 12, 1910

We are selling 21 tried sows and 24 gilts absolutely and without any "strings," the best lot we have ever sold throughout. Daughters of Valley Chief, Ohio Chief, Lincoln Top, Prince of Cols., Prince Wonder, Lincoln Wonder, Crimson Jim, I Am Advance, Proud Advance, Crimson Wonder III, King's Col., Chief's Col. and other top liners and bred for early farrow to our great quartet of head liner herd boars, Ohio Col. 87047, Royal Critic, Blue Ribbon Chief 56533 and Lincoln Top. Royal Blossom 5, Wood River Belle, Lucy Advance, Crimson Beauty, State Queen and several more are equally great attractions. See field note and send for catalog—now. Bids may be sent to auctioneer or Homestead representative. Address

W. M. Putman & Sons
TECUMSEH, NEBRASKA.

RED WONDER
DISPERSION SALE

AT FARM NEAR DEPOT

YUTAN, Nebraska
JANUARY 14, 1910

On account of my family's health am obliged to seek another climate—for that reason Red Wonder, the grand champion of Iowa and Illinois in 1907, together with 44 of the most famous Duroc sows and gilts all bred to him, will be sold on the above date. Clay Center Belle, Neb. Champ. '07, Fancy Maid, three times winner, and others equally as famous as brood sows sired by such boars as Ohio Chief, Medoc, Farmer Burns, Kruger Lad, Tip Top Chief, Lincoln Top, Pride's Kant, Belle's Chief, Golden King, Model Chief To Be, I Am Advancer, Tientsin, Advance, Model Chief Kant be Beat, Gold Dust Chief and Lincoln Wonder. Such a coterie of outstanding sows are seldom sold. Send for catalog now. Bids may be sent to auctioneer or Homestead representative in my care.

FRED STEINBACH,
YUTAN, NEBRASKA.

E. J. Brown sells forty great brood sows at Osceola, Neb., on January 13th. Colonel Callahan does the selling. Bids will be properly handled if sent to Fred Larkin, in our care. Catalogs are now ready. Kindly mention The Homestead.

DUROC JERSEY SWINE.

Boars, Bred Sows and Gilts \$25

AND UP. Can spare BILLIE DAVIS, a son of I Am A Crimson Wonder, and MODEL LADD. Also several select sows and gilts. Am leaving farm and they must sell at once. Address

FRANK ALLDRITT - - FRIEND, NEBRASKA.

Chapin & Nordstrum's Durocs

LITTERS by King of Cols. H. G. C.'s Col., G. C.'s Kansas Col. and Kelley's Pilot Wonder. Dams by Model Chief Again, C. E.'s Col. 2d, W. L. A.'s Choice Goods, Morton's Decree, etc. Three yearling and 3 fall boars for sale; good ones. Also some bred gilts for fall litters. Chapin & Nordstrum, Green, Kansas.

High-Class Duroc Jersey Boars for Sale

I HAVE two litters by my great State Fair winner, Guthrie Chief, out of Belle Advance by Advance. Also two litters by Ohio Chief I Am out of a Tip Top Chief and a Guthrie Chief sow. Also some splendid Chief Col. boars, as well as others by other noted sows. These are good and I am pricing them right.

S. L. HOPPER - - - NEOLA, IOWA.

HARDING'S HERD HEADERS

WRITE me now if you want DUROC JERSEY BOARS. I have several yearlings by Ohio Chief, out of Proud Advance dams; one yearling by Ohio Chief out of Nebraska Belle; 15 fall boars by Crimson Critic, and a grand lot of spring boars. Address

R. J. HARDING, MACEDONIA, IOWA.

Elder's Durocs

KING OF COLS. II, G. C.'s COL., and 30 of Grant Chapin's best brood sows were purchased and from these I have 125 choice spring pigs. Herd boars and choice breeding sows will be my specialty. Write your wants.

FRANK ELDER, GREEN, KANSAS.

REEDS' DUROC JERSEYS

BOARS all sold. We now offer high-class bred sows, sired by Model Chief 94969 and Advancer 28773, and bred to such noted boars as Model Chief 44969, Advancer 28773, the grand champion; Model Chief 2d 53753, and White Hull King 15977.

C. W. & WM. REED, ROSE HILL, IOWA.

Bargains in Bred Sows

SPRING, \$25; fall yearlings, \$30; old sows, \$35 to \$50. Our herd contains the blood of Tip Top Notcher, Crimson Wonder Again, Top Notcher Again, Proud Advance, Orion, Educator and other noted sires. Our sows are noted for producing large litters of strong, vigorous pigs. A few good spring boars left at \$20 each.

WOODLAWN FARM, STERLING, ILL.

GOLDEN MODEL

HEADS herd, assisted by Advancer 1st. Have some great sows and gilts bred to Golden Model for early farrow. Public sale February 1, 1910.

W. R. BENNETHUM - MADRID, IOWA.

KEAN'S DUROC

Bred gilts, popular breeding at moderate prices. Address

FRANK KEAN, MT. PLEASANT, IOWA.

Junior Yearling Show Prospects

WE are offering for sale two junior yearling boars that are show prospects. One by Col. Gladness, and one by The King. Write us if in need of a show boar or a breeding boar.

J. A. Shelton & Son, Manilla, Ind.

DEFENDER and KING WONDER

First and second-prize junior yearling boars at Illinois State Fair, 1909, both sired by King of Colonels, head my herd of Durocs, assisted by Ransom Chief by Ohio Chief. The sows in my brood sow sale, January 11, 1910, will be bred to these boars. Catalogs ready January 1st. Write for one, mentioning this paper.

ERNEST PANCAKE, RANSOM, ILLINOIS.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

Duroc Jersey Boars, \$25 Each

20 BIG-BONED fellows, sired by Col. Chief and a son of Russell's Critic. These are the pick of 150 head. \$20 while they last. Address

J. P. PETERSON, IERMAN, NEBRASKA.

15 Boars

April and May farrow, and sows and gilts of all ages for sale at moderate prices. S. J. Butts, Mason City, Iowa.

DUROC JERSEY SWINE.

BAXTER & COMER'S DUROC JERSEY SALE

JANUARY 12, 1910

We will sell 50 sows bred to B. & C.'s Col., Crimson Wonder 3d and McNeil's Model. Nothing at private sale. Address for sale catalog, either

ED. A. BAXTER, PAWNEE, ILL.
R. L. COMER, CARLINVILLE, ILL.

CHIEF'S COL.

BOAR PIGS

OUT of the great brood sow, Helen Blazes, and sows by Ohio Chief, Proud Advance and other great boars. Pigs ready to ship. Address for price and description.

H. E. Browning, Hersman, Illinois.

Do You Want a Well Bred Duroc Jersey Boar

I HAVE them and they are good, sired by such noted boars as Crimson Wonder Again, Guthrie Chief, I Am Advance, Golden Model 2d and others. Write me for prices on these boars.

GEO. H. MILLER, CHARITON, IOWA.

High Notcher

Forty sows bred to High Notcher, Glad Col. and King's Col. will be sold in my bred sow sale January 13, 1910.

M. A. Kraschel, Macon, Ill.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

For Sale—My Duroc Herd Boar Ruberta Belle's Wonder 81351; also a few of his pigs. L. L. WOODS, GRINNELL, IOWA

ILLINOIS ^{AND} EASTERN IOWA CHAMPION DUROC JERSEY SALE CIRCUIT

ERNEST PANCAKE'S GREAT OFFERING

AT RANSOM, ILLINOIS,
TUESDAY, JANUARY 11, 1910

50 HEAD OF BRED SOWS

Fifteen head bred to DEFENDER, first at Iowa and Illinois State Fairs, first in class and grand champion at International Live Stock Show, 1909. Twenty-five head bred to KING WONDER, only defeated by Defender at the Illinois State Fair, 1909. Five bred to RANSOM CHIEF by Ohio Chief, and five bred to Prince Wonder II., the best son of Prince Wonder. Thirty tried sows, among them several sale topers. Thirty spring gilts. Among the sows are BELL CHARITON by PROUD ADVANCE, DECATUR GIRL, a litter mate to PRINCE WONDER, USEFUL BELLE by STUART'S KING. Others by PROUD ADVANCE, PRINCE WONDER, I AM ADVANCE, THE LAD FOR ME, Belle's Chief I Am, Belle's Proud Chief, White's Proud Advance, Tip Top Notcher (out of Fairview Maid), Col. S., and Model Wonder. Six spring gilts by B. & C's Col., grand champion at the Iowa and Illinois State Fairs, 1909. Others by Prince Wonder, Model Top, Perfect Col., High Chief and King Wonder. This is the best offering Mr. Pancake has ever had. This sale follows that of Messrs. Frank Bieth & Son, Joliet, Ill., January 10th. Catalogs ready.

ERNEST PANCAKE, RANSOM, ILLINOIS.

Cols. Fred Reppert, H. L. Igleheart and Geo. B. Buck, Auctioneers.

BAXTER & COMER'S CHAMPION SALE

To be held at PAWNEE, ILL.,
WEDNESDAY, JANUARY 12, '10

40 HEAD SOWS and GILTS

Forty head bred to B. & C's Col., grand champion boar at Iowa and Illinois State Fairs, 1909, CRIMSON WONDER III., grand champion Nebraska State Fair, 1908, and McNEIL'S MODEL, first at Illinois, Indiana and Ohio State Fairs, 1907. Twenty yearling and tried sows and twenty spring gilts, three by King of Cols., bred to Crimson Wonder III., one by Buddy K. IV. (dam Proud Zeda), one full sister to McNeil's Model, two by Col. S., one by Prince of Cols., one by King of Cols. II., one by McNeil's Model, one by B. & C's Col., all bred to CRIMSON WONDER III., one by Proud Advance, one by Crimson Wonder Again, two by Model Top, one by Valley Chief, one by Prince Wonder, one by Helen's Ohio Chief, one by King to Be, one by Model Wonder and two by Red Wonder, all bred to B. & C's COL., three by Col. S., one by Orion Chief, one by B. & C's Col., bred to McNEIL'S MODEL. There are several others bred to these three great boars. Be sure and attend this sale and get some of this champion blood. Remember the sale will be held at PAWNEE. Address for catalog,

**ED. A. BAXTER, Pawnee, or
R. L. COMER, Carlinville, Ill.**

Cols. Fred Reppert, H. L. Igleheart, N. G. Kraschel, Geo. B. Buck, A. C. Manifold, Aucts.

M. A. KRASCHEL'S SELECT OFFERING

AT MACON, ILLINOIS,
THURSDAY, JANUARY 13, 1910

40 HEAD---20 Yearling and Tried Sows and 20 Spring Gilts 40

Forty head, twenty yearling and tried sows, twenty spring gilts bred to HIGH NOTCHER, a state fair winner and sire of state fair champions, KING'S COL. by King of Cols., and GLAD COL. by Col. Gladness. As a special attraction, Mr. Kraschel is selling a sow by King of Cols., bred to GLAD COL. This sow is a show sow and one of the very best sows to be sold this year, a show sow by Col. S., bred to GLAD COL. This sow was first senior yearling at the Illinois State Fair, 1909. Look after her. Other sows bred to GLAD COL. are sired by Kelly's Pilot Wonder, Advancer and Prince of Cols. Two good gilts by Chief's Col., two by Col. S., two by Red Wonder, all bred to HIGH NOTCHER, ten select High Notcher gilts bred to King's Col. and Glad Col., four fall sows by Macon Chief by Ohio Chief, and one by Helen's Chief. This offering is up to any yet made from the Kraschel herd, which is saying a good deal. Don't miss this sale. For catalog, address

M. A. KRASCHEL, MACON, ILL.

Auctioneers---Cols. H. L. Igleheart, Fred Reppert, Geo. B. Buck and J. C. Monk.

EASTERN IOWA CHAMPION SOW SALE

AT NEW LONDON, IOWA,
FRIDAY, JANUARY 14, 1910

50 HEAD OF BRED SOWS

SPECIAL ATTRACTION, CHIEF'S JEWELL BY OHIO CHIEF, GRAND CHAMPION SOW AT THE IOWA STATE FAIR, 1909, BRED TO B. & C'S COL., THE GRAND CHAMPION BOAR AT THE IOWA AND ILLINOIS STATE FAIRS, 1909. We will also sell an OHIO CHIEF sow, dam by CRIMSON WONDER, bred to DEFENDER, first at Iowa and Illinois State Fairs and grand champion at International Live Stock Show, 1909. Ten sows bred to MODEL WONDER, ten to PROUD OHIO CHIEF, third at Iowa State Fair, 1909, and thirty to PROUD COL., the best son of CHIEF'S COL. Sows by Proud Advance, Chief's Col., Prince Wonder, and Prince of Cols., bred to MODEL WONDER. Other sows are sired by Orion Chief, Model Wonder, B. & C's Col., Col. S., Proud Ohio Chief, Jenks' Wonder, Model Advancer Choice and others, are included. This is a grand good offering and all Duroc breeders should have a catalog, which can be had by addressing either

**HANKS & BISHOP, NEW LONDON, IOWA,
or DROOZ & JENKS, FAIRFIELD, IOWA.**

Cols. Fred Reppert, H. L. Igleheart and N. G. Kraschel, Auctioneers

NORTHWEST IOWA DUROC JERSEY BROOD SOW CIRCUIT

Greatest lot of sows ever sold in Northwest Iowa will be included in this week of sales. Daughters of the most noted sires of the breed, bred to some of the most noted boars of the day.

List Bros., Granville, Iowa, Tuesday, January 11, 1910

40 HEAD---20 fall sows, 10 gilts, 20 aged and yearling sows---40 HEAD

We are selling daughters of PROUD ADVANCE, SAVANNAH BELLE'S CHIEF, IOWA NOTCHER, GUTHRIE CHIEF and IOWA MORTGAGE LIFTER. We will also sell a one-half interest in our great show and breeding boar, IOWA NOTCHER. It is by far the best offering we have ever sold from our herd. Write for our catalog at once. Address

Col. F. F. Luther, Auct.
M. T. White, Field Man.

LIST BROS., GRANVILLE, IOWA.

A. McCurdy & Son, Alta, Wednesday, January 12, '10

40 HEAD---NEARLY ALL TRIED BROOD SOWS---40

Bred to the great boars, PRINCE OF COLS. 2d and MACK'S COL. We are selling the greatest lot of sows ever sold from this herd. Daughters of PRINCE OF COLS. 2d, FOGG'S COL., FINCH'S COL., JUNIOR JIM, BUDDY K. IV, MODEL CHIEF 3d, ACHIEVER, KRUGER, and the great sow MAY BLOOM, the dam of the great boar Model Wonder. Every one guaranteed a breeder and a good one. Write for our catalog at once. Address

Col. F. F. Luther, Auct.
M. T. White, Field Man.

A. McCURDY & SON, ALTA, IOWA.

James Williams, Marcus, Iowa, Thursday, Jan. 13th

40 HEAD---15 aged sows, 5 fall yearlings, balance spring gilts---40

These sows are sired by PRINCE OF COLS. 2d, KING OF COLS. AGAIN, KING SOLOMON, MASTERPIECE, WINNING SENSATION, IOWA KING M., OHIO CHIEF, MODEL CHIEF and COUNT TOLSTOY. I am selling a high-class lot of sows bred to the best boars of the breed. Send for my catalog and come to the sale. Address

Col. F. F. Luther, Auct.
M. T. White, Field Man.

JAMES WILLIAMS, Marcus, Iowa.

Geo. E. Wall, Cherokee, Iowa, Friday, Jan. 14, 1910

50 HEAD---35 matured and aged sows, 15 choice fall and spring gilts---50

I am selling all my best sows in this sale, daughters of AMERICAN ROYAL, TOP NOTCHER CHIEF, WONDER C., CHAS. BLYTHE, ROYAL AMERICAN, SPOTLESS TOP NOTCHER, and other well known sires. I will also sell my great herd boar MODEL CHIEF 7th 77235, one of the greatest sons of MODEL CHIEF, and out of an advancer dam. Write for my catalog at once. Address

Col. F. F. Luther, Auct.
M. T. White, Field Man.

GEO. E. WALL, CHEROKEE, IOWA.

A. Lentz & Son, Pierson, Iowa, Saturday, Jan. 15th

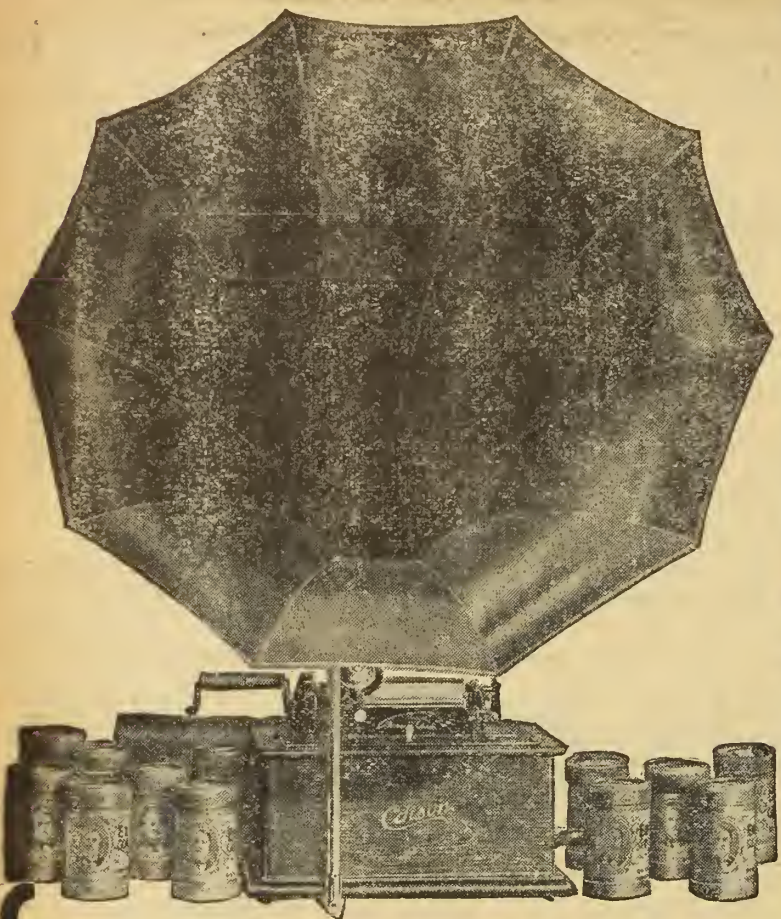
45 HEAD---35 yearlings and Matured sows, rest fall and spring gilts---45

Included will be the great sow VIOLET BLOSSOM, a three year old daughter of PROUD ADVANCE, also one of the best daughters of W. L. A.'s CHOICE GOODS, and others by KING SOLOMON, MASTERPIECE CHIEF, LINCOLN TOP NOTCHER, KING SOLOMON 2d, LAFOLLETTE, RUBY CRITIC, PHALLAS MODEL, MACKEY'S KING and ADVANCER'S CHOICE. These are bred to our great boars COL. SCOTT, a son of Carl's Col.; KING SOLOMON 2d, MACKEY'S KING and Dreadnaught Jr. A better lot of sows never went through a sale ring. Write for our catalog at once

Col. F. F. Luther, Auct.
M. T. White, Field Man.

A. LENTZ & SON, PIERSON, IOWA.

Write each of the above parties for catalog and kindly mention The Homestead. Bids sent to our Mr. M. T. White, Homestead representative, in their care will be properly treated on sale day.



The Edison!

The Latest Style EDISON Phonograph in Our New Outfit No. 10—this superb entertainer, Mr. Edison's latest, final improvement of phonograph—shipped

FREE!

Yes, free. I don't ask a cent of your money—I don't want you to keep the phonograph—I just want to give it to you on a free loan—then you may return it at my own expense.

Read the Offer:

I will ship you free this grand No. 10 outfit, Fireside Model, with one dozen Gold Molded and Amberol

records. You do not have to pay me one cent C. O. D. or sign any lease or mortgages. I want you to get this free outfit—the masterpiece of Mr. Edison's skill—in your home. I want you to see and hear Mr. Edison's final and greatest improvement in phonographs. I want to convince you of its wonderful superiority. Give a free concert, give a minstrel show, music, dances, the old fashioned hymns, grand opera, comic opera—all this I want you to hear free of charge—all in your own home—on this free loan offer.

MY REASON—My reason for this free loan offer, this extra liberal offer on the finest talking machine ever made—see below.

MR. EDISON Says: "I want to see a Phonograph in every American home."

The Phonograph is the result of years of experiment; it is Mr. Edison's pet and hobby. He realizes fully its value as an entertainer and educator; for the phonograph brings the pleasure of the city right to the village and the farm home. Now, the new Fireside Edison Phonograph of our outfit No. 10, 1910 Model, is the latest and greatest improved talking machine made by this great inventor. Everybody should hear it; everybody must hear it. If you have only heard other talking machines before, you cannot imagine what beautiful music you can get from the outfit No. 10. This new machine is just out and has never been heard around the country. We want to convince you; we want to prove to you that this outfit is far, far superior to anything ever heard before. Don't miss this wonderfully liberal offer.

My Reason

I don't want you to buy it—I don't ask you to buy anything. But I do feel that if I can send you this great phonograph and convince you of its merits, of its superiority, you will be glad to invite your neighbors and friends to your house to let them hear the free concert. Then, perhaps, one or more of your friends will be glad to buy one of these great outfits No. 10. You can tell your friends that they can get an Edison Phonograph outfit complete with records for only \$2.00 a month—\$2.00 a month—the easiest possible payment and, at the same time, a rock-bottom price. Perhaps you yourself would want a Phonograph, and if you ever intend to get a phonograph, now is the chance to get the brand new and most wonderful phonograph ever made, and on a most wonderfully liberal offer. But if neither you nor your friends want the machine, that is O. K.; I simply want you to have it on a free loan, and perhaps somebody who heard the machine will buy one later. I am glad to send it on a free loan offer anyway. I will take it as a favor if you will send me your name and address so I can send you the catalog—then you can decide whether you want the free loan. There are no strings on this offer, absolutely none. It is a free loan that is all. I ask not for one cent of your money, I only say if any of your people want to buy a phonograph, they may get one for \$2.00 a month, if they want it.

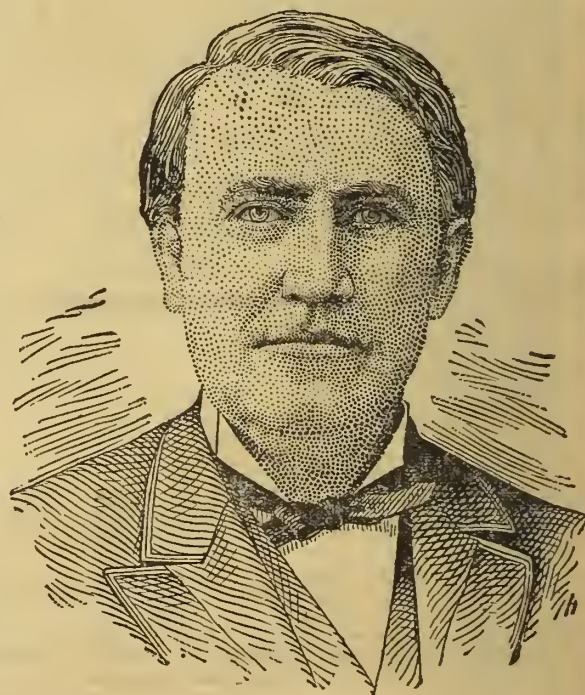
Now, remember, nobody asks for a cent of your money I want every responsible household in the country, every man who wants to see his home cheerful and his family entertained, every good father, every good husband, to write and get these free concerts for his home. Remember, the loan is absolutely free from us, and we do not even charge you anything C. O. D.

Write for the FREE Edison Catalog

In this catalog you will find a complete list

of music and vaudeville entertainments. You can pick out just the kind of records you want for the entertainment you want on this free loan in your own home. Get this catalog at once, then you can decide whether or not you want a free loan and when you want it. You can also decide just the music you want. Remember, I will appreciate it as a favor if you will give me the opportunity of sending you this latest style machine—the climax of Mr. Edison's skill—on this free loan offer. I will appreciate it especially if you will send me your name and address anyway right now, so I can fully and clearly explain our methods of shipping the Edison Phonograph on a free loan offer. **SIGN THE COUPON TODAY. Do it right now.**

F. K. BABSON, Edison Phon. Distributors, Dept. 3781, EDISON BLOCK, CHICAGO, ILL.
CANADIAN OFFICE: 355 Portage Avenue, Winnipeg, Can.



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Just sign and mail the coupon at the left, and get this **FREE** catalog. Write **TODAY**

CUT OUT AND USE THIS COUPON

Without obligations on me please send me your Great Edison Catalog, and also full explanation of your Free Loan Offer on the Edison Phonograph.

Name.....

Address.....

DEPT. 3781, EDISON BLOCK, CHICAGO, ILL.

355 PORTAGE AVENUE, WINNIPEG, CANADA.

No letter necessary; just sign and mail this free coupon right NOW.

TODAY.



VOL. LV. NO. 2.

DES MOINES, IOWA, JANUARY 13, 1910.

WHOLE NO. 2727

OPEN-MINDEDNESS A VIRTUE.

At a time when leaders in the industrial world are pointing out to us that the day is near at hand when the United States will not produce enough wheat to make her own bread, it behooves farmers in general to be somewhat liberal in their views over the matter of accepting the advice of others. We have particularly in mind the individual farmer that is found here and there, who absolutely cannot be shown that his method or the methods of his father are out of date.

Possibly we cannot adopt any better plan of making our meaning clear than to give a few illustrations. Take for example the thousands of farmers that have left the corn belt for certain sections of the West, where the rainfall is about one-half of what they have been accustomed to. We are told that in the great majority of instances these farmers carry with them the agricultural methods which they have been accustomed to since boyhood, refusing in many instances to adopt in the slightest degree the methods that have been worked out by specialists, and have been found to be practical. Farmers of the corn belt have been known to settle down in the so-called dry-farming country and actually starve out year after year, while neighbors have been raising grain crops running in value anywhere from \$15 to \$30 per acre.

Another instance has recently been called to our attention, where a farmer has led himself to believe that he has discovered the law governing the determination of sex. By a series of chances that he has observed in his live stock, he reasons that the law he has discovered is inviolable, and that he has, therefore, made the greatest discovery of the age, or of all ages. As a matter of fact, his theory has been known to the world for half a century and it has been found by an extensive series of investigations, conducted by scientists, that the exceptions are so numerous that the rule itself is rendered null and void, but can this farmer be convinced that the work of these scientists is of greater value than his own guesses or surmises? He stands, and will remain until doomsday, absolutely unconvinced that his theory is unsound. Instances could be given by the score that show a serious state of narrow-mindedness on the part of a certain percentage of our farmers. How many of us would take the word of a scientific man on the question of length of hitch on draft? Would we believe the scientist when he told us that if the line of draft is not changed, the length of hitch cuts no figure? We certainly would not, at least

the majority of us. We simply "know" in some intuitive way that we cannot explain, or cannot be explained, and our opinion has more weight than the opinion of the man who has tested the matter out with the proper kind of equipment. Now all this merely stands for a state of mind, and it is that which we deplore. The illustrations given in themselves, no matter if these false notions are held by thousands of people, cut little figure, but this general state of mind that is too commonly found among farmers stands in the way of our material advancement.

When it comes to crop growing, or the carrying on of a system of agriculture that will maintain fertility, every man should be open-minded and tolerant of the views of recognized leaders. By "leaders" we mean, in the main, our best farmers. What scientists have to say concerning the meaning of fertility, or on the subject of increasing productiveness, generally includes only the why and wherefore of what successful men are doing. We by no means imply that men should be easily led to follow fads and fancies, nor that they should change their line of production to suit the whims of a special class. What we mean is that they should hew out for themselves a sane, sensible system, and after that, they should adopt an open-minded attitude toward the suggestions that may from time to time come from the specialist, whether he be a farmer or a scientific investigator, in order that the best from modern teaching may be adopted and that the worthless from old-fashioned dogmas may be discarded.

BROOD SOW IN COLD WEATHER.

The last half of the sow's gestation period is possibly the most important two months in the whole year of the

average corn-belt farmer. It costs something to carry a sow over and unless she is handled so that she will raise at least six pigs the profits a year from now may be placed on the wrong side of the ledger.

We have had a cold winter thus far and the probabilities are that there will be more than the usual amount of cold weather during January and February. As a result of such conditions sows will not, of their own accord, take the usual amount of exercise so that it is up to the swine man to adapt his method of care and handling to these conditions.

One of the most successful swine raisers in the corn belt believes so strongly in the virtue of exercise that he recently expressed the opinion that, even with corn only, sows may be handled in such a way so that they will farrow strong pigs and have plenty of milk for them at farrowing time. His views in substance are expressed in this way:

For many years I have never raised less than an average of seven pigs per sow, and I mean by that that I have not merely saved them at the time of farrowing, but I have actually had that average when they were marketed at nine months. I have never had a weak litter, nor have I ever seen a case where the forceps had to be used at farrowing time. I attribute my success to the emphasis which I have placed on the matter of exercise. Of course, my method of feeding may have had something to do with my success, because I generally feed a good many oats to my brood sows. I will say, however, that in a few instances I have been short of oats and have carried my sows through on corn alone. If it is not fed in too large quantities it has protein enough in it to keep the sow in condition and to prepare her in such a way so that she has plenty of milk at farrowing time. I believe the average man, however, feeds mill feed in connection with corn.

I want to say another word on the importance of exercise. About two months before farrowing time I turn my sows away from the fattening cattle so that their supply of corn becomes limited; they are given comfortable quarters to sleep in, but every day they are forced to spend several hours

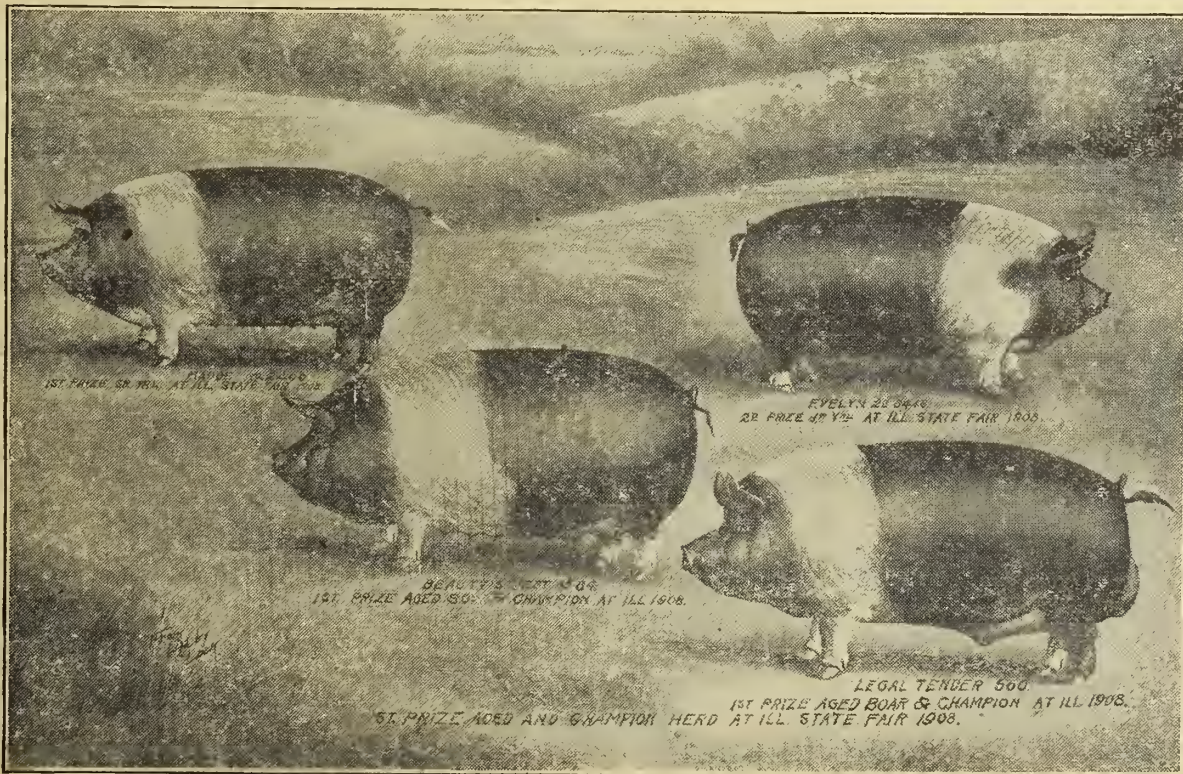
in quarters where there is absolutely no straw. I generally scatter the feed on the ground rather than put it in troughs and as a result it takes them at least an hour in the morning and an hour in the evening to eat their grain. Of course, there is reason in all things and one must not force the sows to stay outside when the weather is dangerously cold, but when it is dry and the sun is shining there is no reason why they cannot spend three or four hours out in the open every day. This is even more important in the case of old sows than the young ones, because naturally the gilts are more active anyway. If circumstances force the old sows to do a great deal of walking every day during the last two months of the gestation period it amounts to the same thing as taking out an insurance policy on the little pigs.

This kind of doctrine has been preached in this paper for many years and it will be repeated over and over again. The sow that has to rough it will in nine cases out of ten be a much more satisfactory breeder than one that is pampered. Corn as a ration produces laziness in all animals and if a brood sow is allowed to hang around and have her own way and be her own judge of the amount of exercise she needs, she cannot be expected to farrow a strong litter of pigs, nor to have milk enough for them when they come into the world.

REMOVING PLANTAIN FROM CLOVER.

A subscriber living along the state line between Kansas and Missouri writes that he had a very good crop of clover hay last summer, which he cut and stacked early in order to obtain a seed crop. Considerable plantain was in the clover, but he thought not enough to seriously affect the grade of the clover seed. Now he finds the seed is badly infested, so much so that local buyers will not offer what he considers a fair price for it. He wants to know if there are mills made that will separate plantain from clover.

Fanning mills and cleaners are now made that will do a good job of taking plantain from clover seed, but none will get it all; in fact, the very best will leave enough in the clover so if the seed is sown there will be plantain enough to produce about the same old ratio of plantain in the field. Plantain is one of the few plants that is able to hold its own against very adverse circumstances. Man may guard against it, may clean it the best he can from seed he sows and even carry the warfare into the field with a hoe, all to little purpose. We would advise our subscriber to sell the seed he has for the price offered, no matter if one-half of what he must pay to get clean seed to take its place. An expert with a good mill might clean it so it would pass an inspection not too critical, but we doubt if our subscriber could obtain a result that



The above is an illustration of the champion herd of Hampshires, exhibited by Mr. A. L. Goodenough, of Morrison, Ill., at the Illinois State Fair, 1908. Some of the above sows and a number of their sisters and daughters are included in his bred sow sale to be held January 29th. See advertisement on page 59.

would satisfy him if his seed is as badly infested as he gives us to understand it is. For the small difference in the price between pure seed and seed of a low grade, no one can afford to proceed on the cheap plan. The best is usually none too pure and clean from obnoxious weed seed, and the best is never so much higher in price than the poorest that it is the most expensive to use. The fact that one has inferior seed of his own raising should in no way make a difference.

DOUBLE TAX ON RURAL SCHOOLS

Country people in Iowa last year paid in tuition to city and town school districts, for country children sent to these schools, the sum of \$203,375.75. In commenting on this showing State Superintendent Riggs says the amount is only a part of the tribute which the country districts annually pay to the city and town schools, as in almost every good town of the state there are families of farmers who have moved in to educate their children. The state superintendent adds that a very considerable portion of this annual tuition toll represents schooling in grades below the high school. He continues:

It seems to be difficult to convince the people of the rural communities that there is any need of improvement in their schools. A great many of them take the stand that their schools are all right and as good as it is possible to be and they will listen to no suggestion of change in the system. But the patrons of these rural schools, by the very fact of their willingness to pay so much tuition for better school facilities, confess that there is really some need of improvement in the rural schools of Iowa.

Iowa is by no means alone among the grain-belt states in this matter. In every state the toll paid every year by country patrons of town and city schools is heavy enough to improve the rural school buildings, their courses of study and their teaching force so as to make them far more attractive and efficient. This matter is strikingly emphasized by Mr. J. R. Roberts, commissioner of schools in Greene county, Mo., who declares that the barns in his county excel, in many instances, the rural schoolhouses. He intends to have photographs taken of barns and schoolhouses and to display them, side by side, so as to shame the people into necessary action. He is quoted in a daily newspaper as saying:

I intend to show some of the patrons that they are sending their children to school buildings that are not nearly so substantial as their barns. If these parents are contented to see their mules and horses housed in comfortable quarters while their children are trying to gain an education in some of the dilapidated buildings to be seen, it is because they have never given the matter any thought. Most of our rural schools are well built, but there are others which, when compared with the barns I shall have photographed, will show how the school patrons are neglecting their children. I hope the result will be a general awakening and a movement for better buildings.

That the rural school advantages of Iowa, Missouri and every other state of the grain belt could be improved without additional taxation is easily proved. The Iowa Department of Public Instruction has issued a booklet giving plans and specifications of model rural frame schoolhouses ranging in cost, for the ordinary school district, from \$1,200 to \$2,000. The \$1,200 building is sufficient in many, perhaps most, cases, but taking \$1,500 as the average cost of a model rural frame schoolhouse, the \$203,375.75 which rural districts paid as town and city school tuition last year would build 135 new model rural frame schoolhouses. Five years' tuition toll would result in seven new rural schoolhouses in each county of the state. But not all of the existing buildings need to be rebuilt; many could be made sanitary and slightly by simple remodeling at an expense ranging from \$100 to \$500.

The advantages of town and city schools are a lure to hundreds of country boys and girls and this is not to be wondered at. But that a large percentage of these same boys and girls could be kept on the farm if the rural schools were improved is conceded. Rural education is in a bad condition when barns are better built and better kept than schoolhouses. And rural education cannot hope to compete with city education so long as it suffers this annual toll of hundreds of thousands of dollars in city tuition. The time has come when better business methods must prevail in the management of country schools,

to the end that children and parents' money may be kept at home.

IS THE FARMER TO BLAME FOR HIGH PRICES?

The attempt to saddle the high cost of living on the farmer is both unjust and absurd. It does not take into consideration the vast increase in the output of gold, the increase in the standard and the luxury of living and the increase in population far in excess of the increase in acreage production.

The department of agriculture, at the suggestion of President Taft, is engaged in an investigation of this matter. The investigation has proceeded far enough to warrant the assertion that "the farmer is not getting the exorbitant profits out of the beef he raises, while the same condition prevails in most other lines of farm products." When the complete report is forthcoming it will be an important document and worthy of the closest scrutiny.

Next to the insistent and persistent question, "What is the cause of the burdensome cost of living?" the question most necessary to answer is "Who gets the increase?" There has been a widespread attempt to hold the farmer responsible, yet the farmer sells his beef for six and seven cents a pound and the consumer in the city pays from twenty-five to thirty-five cents a pound; the farmer sells his eggs for twenty-five cents a dozen and the consumer in the city pays thirty-five to forty cents a dozen; the farmer sells his milk to the wholesale distributors for four and one-half cents a quart and the consumer in the city pays eight, nine and even ten cents a quart. Must the farmer be held responsible for the middleman doubling the price which he is paid?

Is it just, moreover, to hold the middleman solely responsible? President Taft concluded his recent message to congress with a brief discussion of high prices, which he attributes to the increase in the output of gold, "the increase in population and the more expensive mode of living of the people which have not been accompanied by a proportionate increase in acreage production." The department of agriculture is not convinced that the middleman is entitled to the blame; that is, not all of it. "Farming area is not keeping pace with demands for foodstuffs," it reports. "The cities seem to have more attractions for the laboring man than the rural communities. The horde of immigration, as well as the ever-increasing native population, must be fed and the farm is expected to furnish the food." It is the old law of supply and demand. Vast as is the number of people who are migrating to the Southwest and Northwest and taking up land, still vaster is the horde of immigrants coming to this country to be fed and clothed and housed. The tendency of the day is undoubtedly toward the cultivation of smaller tracts of land, until the exponents of intensive farming become so proficient that they can raise on ten or twenty acres as much as they formerly raised on sixty or eighty the supply must fall below the demand. There must inevitably result a period of uncertainty and depression before conditions can adjust themselves.

Nor must the fact be overlooked that the real test of the cost of living is not what we pay for things so much as what we are able to pay and what we get for our money. Men point out the fact that the natives of India live on one cent a day, but they omit to point out the fact that they work for a cent and a quarter a day. The real test is whether one has enough to buy the things of life and still has something left over? The old story of how George Washington threw a dollar across the Potomac river is now explained on the theory that a dollar went farther in those days. But it did not buy as many luxuries, while even the necessities of life were not so generally enjoyed. The people of fifty years ago did not spend half the money the people of today spend. They did not have it to spend. They worked just as hard, possibly harder, yet they had no more left at the end of the year or of their lives and in the meantime they did not live nearly so well. The people of today spend their money freely on things, looked upon as necessities, which

were considered the luxuries of millionaires a few years ago. As one newspaper commentator points out: "In the one matter of tropical fruits, we are today enjoying what was impossible to the rich and even to royalty a couple of generations ago. We have upon our tables the bananas of Honduras, the pineapples of Florida, the oranges of California and look upon them as necessities."

Would any of the people who shriek in dismay at the high cost of living today be willing to exchange places with their grandfathers? Would they not admit that today we live, while yesterday we only existed? The statement is made, and not disputed, that the American workingman of today daily sits down to better meals than Queen Elizabeth of England ate. With all the increased cost of living, bank deposits are growing and the average of prosperity and contentment is higher.

The farmer is not to blame for the high cost of living; it is doubtful even if the middleman is to blame. America is confronted by a situation which is the inevitable result of commercial and geographical evolution. To attempt to foist the cause on the farmer is to injure the good name of the man who is the real producer of the nation's wealth, the one who most conscientiously tries to make conditions better, even while he knows that he has set himself a practically hopeless task in view of the natural agencies which are contending against him.

VALUE OF GASOLINE ENGINES.

This paper has always believed in a policy of supplying its readers not with a lot of fanciful theories promulgated by men who are not face to face with practical agriculture, but with the unvarnished, every-day, living truth as it is presented by men who know what they are talking about. With this preliminary statement we hereby insert a communication from one of our contributors, dealing with a subject that is increasing in importance:

My father used to feed cattle and he always shelled all the corn he fed, using self-feeders for the cattle. The cobs were used for fuel and they were very nice to start fires with. He used a two-hole corn sheller and an old eight-horse power, but used only two and four horses on it. On account of old age and not longer being able to run the farm, he retired from farm life and moved to town. The corn sheller and power were left on the old homestead, and I moved onto it and used them. Often when I wished to shell corn the track would be very muddy for the horses and the old power would run hard, as it was getting all out of line, and I decided to investigate gasoline engines.

I was expecting to get about a three or four-horsepower, but I secured prices on different sizes and ordered a seven-horsepower. The factory sent a man to install and start it. I have been running the engine ever since, and have never had an expert or anyone else to examine it and it runs just fine. I run a four-hole corn sheller, feed grinder and two pumps; one is sixty rods and the other is 150 feet from the engine, and I can have water for my stock whenever I want it, wind or no wind. I grind a great deal of chicken feed in the spring for my neighbors and at the same time pump water for the stock, and what I charge for grinding helps pay for the gasoline, and a very small quantity of gasoline is required to do all the work. I would not do without the engine for almost any price if I could not get another.

In 1905 I had a room built near the dwelling, secured a small two-horsepower gasoline engine, and this runs the churn, washing machine and the house pump from the well, which is forty-four feet deep, while I have a double-cylinder force pump and have hose handy, which in case of fire can be attached to the engine. My two smaller girls, eight and fourteen years of age, can start the engine, and Monday morning, while the engine is running the washing machine, my wife can sit and talk over the telephone, or in the rocking chair and read the news.

After I installed the smaller engine, which I did all by myself, a neighbor saw it and ordered one for his own use, and another neighbor came and saw the work it was performing and did likewise.

The gasoline engine is a great labor saver on the farm at a small cost. There are a great many things it can be applied to. There is no other machine that will go farther in solving the help problem on the farm. An expert engineer is not required to run it. When the oil cups and supply tank are filled with gasoline it can be let go. I would not let him afraid to start my engines and let them run a half day without any attention. If anything should go wrong they would stop. I think the gasoline engine will fill a long-felt want on every well managed farm.

Of course no reader of this paper doubts the practicability or the utility of the gasoline engine as a farm power, and the phase of the question presented by this contributor that is of special interest, is that relating to the great variety of uses to which an engine may be put. While the experiment stations have never enthusiastically

ally endorsed the practice of grinding grain, yet as a matter of fact their experiments, taken as a whole, have never been conducted on what might be called a practicable farm basis. To shut up a bunch of hogs and feed them ground corn for three or four months and to feed a similar bunch whole corn may result in a measure in giving one some idea as to the relative value of the two kinds of feed. On the other hand, because the gains made by the hogs fed ground feed are not sufficient to cover the cost of grinding does not signify that there is no place for a grinder on a farm. The man who says that you cannot make larger gains by sensibly feeding ground feed under certain conditions to farm animals, either says it out of ignorance or through a malicious desire to deceive.

On the average stock farm where colts, calves, hogs and lambs are being raised, there is scarcely a week in the year when a little ground grain cannot be used to advantage. At times the growing calves will utilize corn and cob meal to very great advantage, making as large gains out of a pound of that mixture as they would on pure corn, and thereby saving practically 15 per cent of the feed. At other times hogs can be fed corn and cob meal to very great advantage, this being particularly true in the case of brood sows. Toward the end of a finishing period on a bunch of hogs it is frequently a most excellent practice to give them one meal of ground feed a day, as a sort of change from their dry grain. Even with a bunch of steers, when they are getting heavy and fat, one can put on the last finish at a less cost by using a little ground grain than he can with whole grain, and the right kind of a finish may mean an additional half-dollar per hundred on the whole weight of the animal. When a three-year-old or four-year-old colt is put to heavy work he is able to make most excellent use of ground grain, because his teeth are in bad shape. Dozens of similar instances could be given by practical stockmen, showing that with a grinding outfit on hand it is possible to do much more skilful or scientific feeding than if one has to resort to the use of whole grain at all times, and where a large amount of stock is kept, making the grinding of a considerable quantity of feed necessary, there is no question but what the gasoline engine is solving one of the stockman's most difficult problems.

THE BEST READING MATTER.

These long winter evenings are the ones in which to settle down comfortably in an easy chair and enjoy to the full a favorite paper. The information stored away in this period of enforced inactivity will result in increased yields next summer, in a broadened mind and a more comprehensive understanding of the problems which beset not only the farmer, but all classes of workers as well.

But while the mind craves food at this time of the year, it is as highly important that only the best mental food should be secured as it is that only the best, unadulterated physical food should be eaten. Reading poor, trashy or unreliable journals is worse than reading none at all. The publisher of The Homestead had this fact in mind when he made up this year's Red Letter Subscription Offer. He personally reads all the papers which he offers and knows they are high grade, beneficial and worthy in every respect.

The Red Letter Subscription Offer is simply this: Remit \$1.50 to The Homestead, Des Moines, Iowa, and the following six splendid papers will be sent you one entire year: The Homestead, The Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. The regular price of these six papers is \$3 a year. You are getting them at exactly half price through The Homestead. Do not delay, but send in your remittance at once. It will insure you a full year of the very best reading matter.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

There is one logical way to reason about this continued zero weather: it is the season of year for winter. Better have it now than late in the spring.

One of the boys suggested, the morning after what he calls a "good rabbit snow," that one can chop wood any day, but there would be no day better than that one to hunt rabbits. He went hunting.

Somehow I cannot see where it pays to chop wood, except to fall the trees, when a few quarts of twelve-cent gasoline furnishes the power to saw it faster than a half dozen men and boys can chop. Even the boy who would otherwise be out of a job cannot compete with a buzz saw propelled by a gasoline engine. If there is nothing else to do there should be good books to read.

I pity the boy who dreads the time when school does not keep, the holiday vacations and Saturdays, because it means hard work for him every hour of daylight. Something is wrong in the management of his home.

The other day a neighbor tried to persuade me that speltz is a better grain for horses than oats, "because it weighs more." This is putting weight before quality.

The millers stuff their bran sacks like my mother used to stuff cloth bags with sausage, and then I often wonder if they get the 100 pounds in. They seem to forget that sacks may be made larger.

The six papers that are being offered in the Red Letter combination at this time constitute a collection of most interesting and valuable reading matter. The list includes The Homestead, The Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. These papers are not designed to cover the same ground, but each is a specialist in its own field. It is a splendid collection of papers and the combination only costs \$1.50 for a whole year.

The boys have just finished an evening of argument on this problem: A stranger goes to a shoemaker to buy a \$5 pair of boots. He gives a \$10 bill in payment and the shoemaker

takes it to the drug store next door to get change. After the stranger has left town the druggist discovers the \$10 bill is counterfeit, and he calls upon the shoemaker to make good. How much does the shoemaker lose in the transaction? The boys didn't settle it until they made paper money and one acted as stranger, one as shoemaker and the other as druggist.

When it comes to hauling home a big load of coal, the road from town is no better than the worst half mile.

The women are beginning to talk chicken raising over the telephone, a sure sign that spring is on the way. Those who have no incubators talk of buying this year. In this neighborhood the old hen has almost lost her sitting job.

Feeding horses on molasses isn't the latest, but it is a new thing to most of us. I, for one, never have tried it, but those who have tried it say it makes them fat. If this is true, I would like to suggest to some I know that they make sorghum molasses next year and feed it on their farm.

Since nearly all the other disagreeable jobs have been mentioned, hedge trimming should not be forgotten. An old hedge that has been side trimmed isn't so bad to handle if one cuts it clean to the ground, but to pick a few trees out of a bushy hedge—deliver me. Posts they make are good, but the scratches are bad.

All the troughs have a way of filling up with ice this weather, and when one of the boys comes along to chop it out he sometimes lets his ax slip and the trough suffers. One day one of them tried a pick instead of an ax, and since then it's the pick that is used. Use the broad point and work with it between the ice and the trough, instead of picking from top to bottom.

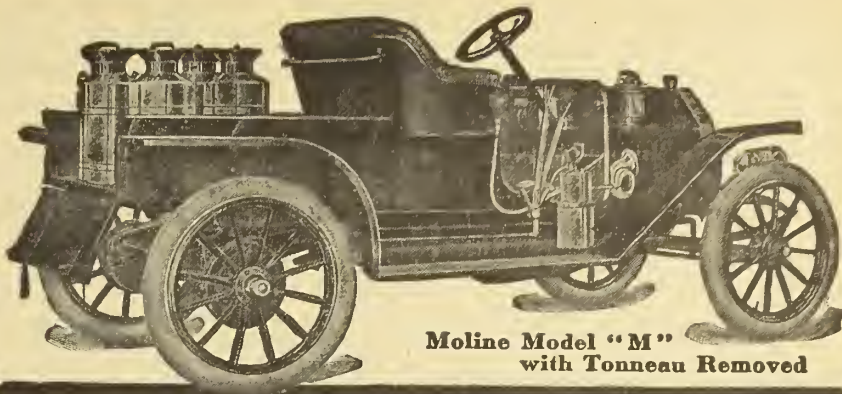
One of the professors of an agricultural college advises farmers to walk their product to market. Feeding all grain raised on the farm where it grew is sound doctrine, and it can then be walked to market on the legs of a steer or hog, although not many of us drive our hogs to market now. It is cheaper to haul them, even if the station is only two miles away.

Speaking of walking farm products to market, the other day I was in a store when a customer brought in some butter that was thoroughly capable of walking to town. It could have trotted behind his buggy with perfect ease, and I am not sure but what it could have kept up with Smith's auto. No doubt the customer's wife had "salted" down that butter when the price was lower and, of course, the merchant must now pay full price for it or make another customer mad.

Some folks work for money and money alone. Improvements and the better things of life do not appeal to them—it's the money they are after. When they get it what better off are they? Ten thousand dollars owned through life, and finally left for the children to quarrel over, does a man and his wife less good than \$100 judiciously expended for comforts while living.

The older I get the less I like to hurry. Time was when the day's work was planned beforehand and, in order to get just that much done that day, I would go to almost any length. Now I recognize the fact that another day is coming, and if the work planned for a day takes longer than a day, it is carried over into the next.

There are some things a man learns only through experience. A few years ago I learned never to attempt to crawl through a 2x4-foot door leading to an inside sow pen while the old sow was inside. The Old Rip waited until I could neither go ahead nor retire quickly, being half in and half



Moline Model "M" with Tonneau Removed

The Car for Farmers

The Perfect Score

Moline

30 h.p. 4 cyl. \$1500

There are a good many reasons why the Moline is the car for the farmer. Its removable tonneau makes it especially desirable. Can be quickly converted into a 2-passenger roadster, leaving a big rear platform for transporting milk, tools, grain, etc., from one part of the farm to another or to town.

Again, it is a dependable car. In the 1909 Glidden Tour it made the

2640 Miles Without a Flaw

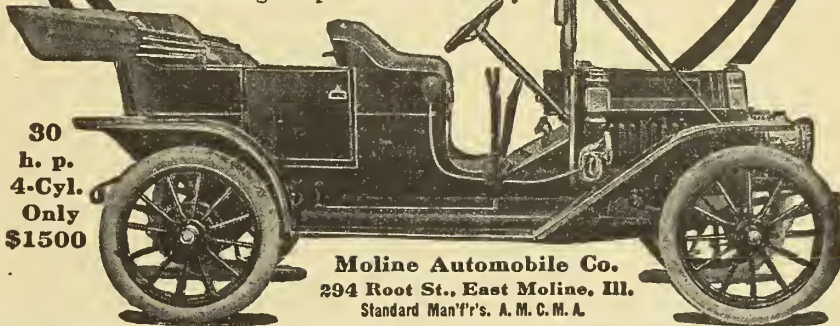
proving its wonderful efficiency and dependability beyond all doubt.

Its big wheels, big tires, long wheel base, long springs, roomy seats, powerful engine and simplicity of mechanism have made it very popular with farmers. J. W. Southwick, Kalona, Iowa, writes:

"I am more than pleased with my Moline. Have not had a cent of repairs. There are seven Molines in my neighborhood all in the hands of inexperienced farmers like myself—all giving perfect satisfaction."

WRITE FOR CATALOG NO. 294

Don't buy until you hear what Moline users say about the low cost of up-keep—its hill climbing ability—its easy riding—control and great power and durability.



Moline Automobile Co.
294 Root St., East Moline, Ill.
Standard Man'r's. A. M. C. M. A.

HERE'S A SHOE THAT WILL SATISFY YOU—

It's the Menz "Ease." Made for everyday, outdoor service in all sorts of weather, especially for your kind of work, and it's the easiest, most comfortable shoe you can buy. The upper leather is our own special Menz "Ease" Process of Tannage. So soft and pliable it reminds you of glove leather, very easy on your feet, neither heat, water nor service will harden it, and yet it's the toughest, strongest upper leather tanned.

Menz "Ease"

Menz "Ease" shoes are absolutely solid and thoroughly honest—must be or we would not hear of them giving one to three years' service and the uppers outwearing two to six pairs of taps. They will satisfy you in every way. Always fit perfectly—will give you solid comfort all the day long—will wear like you want a shoe to wear—and best of all will save you money.

We are everyday shoe specialists devoting our entire factory and all our time for years to two shoes—the Menz "Ease" for men and its duplicate for boys—the "AMERICAN BOY."

SENT FREE—CATALOGUE R

Illustrating from photographs over 120 Menz "Ease" and "American Boy" styles in all heights from 6 inch work shoes to 18 inch hunting boots.

Menz "Ease" illustrated is the plain toe blucher—standard screw fastened, our medium weight sole, sizes 6 to 12, EE width, and a money saver at **\$3.50**

When you send for catalog we will tell you if you can buy the genuine Menz "Ease" and "American Boy" in your town. If you can't, you can get them direct from us at the regular retail prices, delivery charges prepaid. We caution you never to buy a shoe from anyone except ourselves or our authorized agents for the genuine Menz "Ease" or "American Boy" unless you find the name on sole and the yellow label.

Menzies
Shoe
Company
Makers
Detroit,
Michigan

Dept. 12

2 1/2 H.P. weighs only 300 lbs.
3 1/2 H.P. weighs only 450 lbs.
5 H.P. weighs only 600 lbs.

NOVO
Gasoline
Engines
Most Compact Engines Made

EASY TO MOVE—but strong as any engine made, for every working part is large—the base only is made lighter. Besides, they

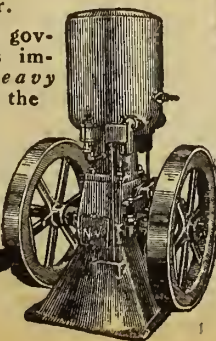
CAN'T FREEZE UP and break—an open cooler prevents. This and all our claims are guaranteed.

NO SEPARATE TANK in the Novo to bother.

The improved governor responds immediately to heavy work. Send for the

Novo Engine Booklet

(it's free) and it will explain fully.
HILDRETH MFG. CO.
14 Willow St.
Lansing Mich



out, then she made a bolt for the exterior.

The town school dad stopped me on the street the other day and asked if I thought production was keeping pace with the increase in population. I told him it depended a great deal on what line of production he meant.

"Well," he said, "farm products." Again I was compelled to ask him to explain what farm product. Some folks seem to think that the production of one farm product cannot increase without all do.

Smokers find Lewis' Single Binder 5c cigar better quality than many 10c brands.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

THE PRESIDENT'S MESSAGE.

President Taft has submitted to congress a message dealing with the interstate commerce commission and trusts. Briefly summarized, the president's recommendations are as follows:

1. The establishment of a United States court of commerce (consisting of five federal judges appointed for life) which shall have jurisdiction over all appeals from the interstate commerce commission, the only appeal from which court shall be to the United States Supreme Court.

2. Enlarging the scope and increasing the powers of the interstate commerce commission so that it may act on its own initiative in investigating the fairness of any rate or practice (and not be dependent on complaint filed by an individual) and giving it the right to investigate proposed increases in rates when first suggested by the common carriers and not compelling it to wait until these rates have been put into effect.

3. Denying to railroads the right hereafter to acquire any interest of any kind in the capital stock or purchase or lease of any rival railroad.

4. Granting to trusts now in existence "a means, without great financial disturbance, of changing the character, organization and extent of their business into one within the lines of the law under federal control and supervision, securing compliance with the anti-trust statute."

5. The enactment of a law providing for federal incorporation of concerns which may desire to operate under national supervision.

In common with President Taft's former messages, the present document is clear, concise and eminently dignified. It was conceived in fairness and completed without prejudice.

Whenever you see
an Arrow
Think of
Coca-Cola

The all the year round best beverage for all classes, ages and sexes.
Delicious—Wholesome
Thirst-Quenching
So Everywhere

**The Coca Cola Girl
Calendar for 1910**

Send us 2c for postage and we will send you our beautiful 1910 Coca Cola Girl Calendar and our interesting booklet "The Truth About Coca-Cola". Tells all about Coca-Cola—what it is and why it is so delicious, wholesome and beneficial. It gives analyses made by scientists and chemists from coast to coast, proving its purity and wholesomeness. Your name and address on a postal will bring you the booklet by itself.

THE COCA COLA COMPANY, Atlanta, Ga.

ELECTRIC Handy Wagons, Steel Wheels.

Save your strength a thousand times with the low lift. Easier on the horses; easier on you. Wagon for all work. No shrinking, no breakdowns or repairs. All widths of tire, 20 to 60 inch wheels. Send for free catalog of up-to-date farm wagons to

ELECTRIC WHEEL COMPANY,
Box 58 Quincy, Ill.

Plow Business Revolutionized

Think of this—one single plow, suited for all soils, all conditions, all purposes—a **Universal Plow**. Implement makers for 40 years have tried to make it and failed. **WE HAVE SUCCEEDED.** A year of field testing has proved it to ourselves and hundreds of enthusiastic farmers.

Think of this—a plow that will turn over SOD without kinking—turn under STUBBLE of any kind and not leave a bit of trash showing—turn under CORNSTALKS with the same perfection, every stool covered—which will turn a furrow 2 inches deep and cover all sod, stubble or cornstalks perfectly—or a furrow 8 inches deep under the same conditions equally well.

And, furthermore, will do this in ALL SOILS—sand, clay, waxy bottom, gumbo—stony or gravelly—and leave a perfect furrow with the bottom clean as a floor. No dirt spilled over into the furrow or slopped forward onto the land.

It seems almost too good to be

Note the peculiar corkscrew, auger-like twist of the mouldboard. A slice of any thickness spreads out evenly over the surface without crimping, and turns clear over, burying all trash completely. No spilling over into the furrow or slopping forward onto the land.



The president has displayed his courage in this message as never before. In the first half he proposes means by which railroad domination may be curbed, the rights of the shipping public protected and railroads be brought to bar without delay or subterfuge. In the second half he defends concentration of capital (commonly known as trusts), holding that "it should be the care of the government to permit such concentration of capital while keeping open the avenues of individual enterprise and the opportunity for a man or corporation with reasonable capital to engage in business." In other words, the president refuses to condemn trusts as a whole, notwithstanding the clamor and contention in many sections that while there may be good trusts as well as bad trusts yet all trusts inevitably tend to stifle competition and are to be dealt with summarily. President Taft would not have the Sherman anti-trust law repealed, yet he would have the government and all the world take cognizance of what he believes to be a fact: that "nothing could be more destructive to the property of this country than the loss of that great economy in production which has been and will be effected in all manufacturing lines by the employment of large capital under one management." The president has delivered himself of what must long stand as the supreme test by which to measure trusts to see whether they are reprehensible or commendable. He says:

It is possible for the owners of a business of manufacturing and selling useful articles of merchandise so as to conduct their business as not to violate the prohibitions of the anti-trust law and yet to secure to themselves the benefits of the economies of management and of production due to the concentration under one control of large capital and many plants. If they use no other inducement than the constant low price of their product and its good quality to attract custom, and their business is a profitable one, they violate no law. If their actual competitors are small in comparison with the total capital invested, the prospect of new investments of capital by others in such a profitable business is sufficiently near and potential to restrain them in the prices at which they sell their product. But, if they attempt by a use of their preponderating capital and by a sale of their goods temporarily at unduly low prices to drive out of business their competitors, or if they attempt, by exclusive contracts, or by other methods of a similar character, to use the largeness of their resources and the extent of their output compared with the total output as a means of compelling custom and frightening off competition, then they disclose a purpose to restrain trade and to establish a monopoly and violate the act.

Herein is evidenced the impartial, judicial mind of the president. He is essentially the judge who has considered both sides of the controversy and lets slip the knife from the hands of the blind goddess of justice, let the hurt attach where it belongs. The president brings to the nation's problems a ripe, well-trained, judicial mind, the very kind needed. The people

true, but we have proven it under every condition that will ever be met in farming—by field tests from the wheat fields of Canada to the cotton fields of the South, and from the sands of California to the waxy lands of Texas. It never fell down once, and practically every farmer who saw one of these field tests ordered a plow. It's the biggest thing for the farmer that has happened for years. It makes one plow do all the work that any kind of a plow will ever be called upon to do—and do it RIGHT. No wonder farmers get enthusiastic about it.

Performance Guaranteed

ROCK ISLAND UNIVERSAL (G.T.X.) BOTTOMS

Now Ready on our Liberty Gang Plow

Our wonderful invention has already started to revolutionize the plow business, and inside of a year or two there won't be a plow in the country which is not equipped with this modern miracle of mechanics. We shall eventually equip all our plows with this bottom. Our celebrated Liberty Gang Plow is already equipped. It has kept us so busy filling orders for this that we haven't been able to get to the others. The Liberty Gang has become so well known for ease of operation, easy draft and wonderful durability during the years it has given satisfaction in all parts of the United States, that no description is necessary, further than that it has all the good points of all gang plows with their weaknesses and disadvantages overcome.

If you can use a Universal—all-purpose plow, which in one implement will do better work than all the plows you can buy put together, you must ACT QUICKLY. Our mammoth factory is already clogged with orders—it's a case of first come, first served. So order from your Dealer NOW for delivery as soon as possible, or when you need it—either one. Don't be put off—don't even look at anything else. There is NOTHING just as good or a hundredth part of it.

Write us if you want descriptive circulars and nearest dealer's name. Will answer promptly, so the delay won't count against you.

ROCK ISLAND PLOW COMPANY

Rock Island, Ill.

Plow and Harrow at Same Time

This plow attachment pulverizes and levels the soil as it is fresh turned and moist, thereby making a perfect seed bed before the ground gets lumpy and dries out. It is light running and requires no more horses than for ordinary plowing. Made for sulky and gang plows.

The cutting blades are made of the best plow steel, with plenty of curve to the blade so that it produces a draw cut. These blades are self-cleaning and cornstalks or trash cannot lodge.

THE NATIONAL ROTARY HARROW ATTACHMENT

Is destined to become the greatest farm labor-saver of the age! It does the work far better and easier than the old drag, because of the draw cut blades, and also because the ground is easiest pulverized and leveled when it is fresh turned. When your plowing is done, your harrowing is done! By all means SEE this great machine attachment. It will save you dollars, time and trouble. Ask your dealer to show it to you today. If he hasn't it, write us today and we will see that you are supplied. [1]

NATIONAL HARROW COMPANY, Box 122, LEROY, ILL.

ple have decided on their policy; it is now up to the president to see that what is done is well within the law, that no constitutional rights are injured, but at the same time that no legal technicalities allow the guilty to escape. The president has advised congress in a judicial, dignified message. It is up to congress to uphold him in his recommendations or answer to the people for their dereliction.

CLOVER IN BLUE GRASS PASTURES.

A subscriber at Genoa Bluff, Iowa, sends the following communication:

What is your idea about the advisability of sowing clover seed on an old blue grass hog pasture? I have just such a situation to deal with, and it will not be practicable to plow up the blue grass because the field in question is the only one on the farm that I have fenced hog tight. How soon would the blue grass choke out the clover, even if one succeeded in getting a stand? Would it be practicable to sow the seed broadcast and afterward disk in the seed? Would the clover be of any benefit the first year?

It is entirely practicable to sow clover in the blue grass pasture. Indeed, we are getting to that point where the man who does not use legumes in his pasture is greatly handicapped as compared with the man who does.

There is a right and a wrong way of sowing clover on a blue grass sod. No doubt the ideal way to get it established is to use a disk drill, but good results may be obtained by disking the sod early in the spring while the land is somewhat soft. As a matter of fact, the best results are often obtained by disking the ground before the frost is entirely out—say at a time when four or five inches of the surface is soft and the lower soil frozen hard. The object of doing work at that time is to get the most effective kind of work out of the disk. A good, double disking at such a time will generally stir the soil sufficiently to enable one to get a fair covering of the clover seed by the free use of the harrow after sowing. There need be no fear about impairing the stand of

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blue grass if it is a good, tough sod to begin with. Even if the entire surface is scarred in the process of disking and harrowing the grass will come on in the spring even better than if no disking whatever were done.

As to the length of time that clover will last, it may be said that throughout a greater portion of the corn belt red clover is a biennial plant, that is, it lives two years, so that naturally it may be necessary to repeat the process of sowing clover in the pasture biennially.

A thorough disking up of an old blue grass sod will not only make a seed bed for clover, but it will actually result in improving even a stand of blue grass. Many pastures become what is known as "sod-bound" and when they get into that condition it always pays to give them a good surface stirring or a liberal dressing of farmyard manure.

The clover will furnish considerable pasture the first year.

THE SIX BEST PAPERS.

Six papers better adapted to the all-around, all-the-year-round needs of the farmer could not be selected than The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and National Swine Magazine. All six of these papers can be had one entire year by remitting \$1.50 to The Homestead, Des Moines, Iowa. Here is an unparalleled opportunity to get six of the best papers in the country, filling every need and desire of every member of the household.

THE REMOVAL OF PINCHOT.

In ordering the secretary of agriculture to remove Gifford Pinchot from the office of chief forester, President Taft makes it clear beyond the shadow of doubt that he intends to administer the affairs of his high office in a determined, dignified manner, without fear or favor. Aside from any and all questions of the personal merit or integrity of Forester Pinchot and Secretary Ballinger, an issue was involved which the president could not overlook. That issue was the insubordination of an assistant. Mr. Pinchot deliberately took it on himself to question the acts of a superior and when called on for proof of his allegations refused to furnish this proof to the proper authorities, but went outside of his jurisdiction and foisted the matter on congress, contrary to the direct instructions of his chief, the secretary of agriculture. President Taft, in his letter of dismissal, does not hesitate or quibble. He says:

Your letter was in effect an improper appeal to congress and the public to excuse in advance the guilt of your subordinates before the act and against my decision in the Glavis case before the whole evidence on which that case was based could be considered. I should be glad to regard what has happened only as a personal reflection, so that I could pass it over and take no official cognizance of it. But other and higher considerations must govern me. When the people of the United States elected me president, they placed me in an office of the highest dignity and charged me with the duty of maintaining that dignity and proper respect for the office on the part of my subordinates. Moreover, if I were to pass over this matter in silence, it would be most demoralizing to the discipline of the executive branch of the government. By your own conduct you have destroyed your usefulness as a helpful subordinate of the government, and it therefore now becomes my duty to order the secretary of agriculture to remove you from your office as forester.

Mr. Pinchot's term of usefulness as a public servant was at an end when he carried his tale of woe, not to his superiors, but to an outside body, to wit, congress. This is not to say that he is not as good an authority on reforestation today as he was yesterday, that he is not as honorable a man or as gifted a speaker or writer. It is to say, however, that any man who sets himself above his superior officials, who refuses to carry the regular matters of business to them, but takes these matters to outside parties, seeking sympathy and support, is guilty of insubordination and manifests a spirit of conflict which, if allowed to proceed unchecked and unrebuked, would disintegrate the most perfect working organization in the world. Mr. Pinchot was out of step with his associates and chief. To have kept him would have been to put a premium on insubordination.

There is but one course for the patriotic citizen to pursue in this matter and that is to uphold the president. A congressional investigation has been ordered and all the facts in the case will be brought out. The question is not that of conservation. That policy has been decided on and vigorously pursued by the government. It is not the policy, but men to whom has been entrusted the work of carrying out the policy that congress must investigate. It is exceedingly unfortunate that partisanship has been injected into the controversy. It is not a question of factionalism; it is a question of harmonious organization and co-operation. There is a too considerable element in the president's own party searching the highways and byways for excuses to belittle, condemn and even openly oppose the president. He is entitled to party support, to patriotic support, so long as he honestly and conscientiously administers the affairs of his high office and seeks to gather and to keep about him men in harmony with his own ideas and his party's platform.

MORE LIVE STOCK AND MORE GRAIN.

Mr. J. J. Hill, the railroad magnate, has recently called attention to the fact that this country will be importing wheat inside of the next twenty-five years, unless methods of production are greatly changed. He believes that by the year 1950 the United States will have a population of 200,000,000 people and at the present rate of consumption this will mean that they will consume 1,300,000,000 bushels of wheat while producing 900,000,000 bushels. While we believe that Mr. Hill is performing a patriotic service to his country when he points out the future danger of having our trade balance against us instead of in our favor, yet we believe that the productive capacity of this country is such as to keep pace with consumption for an indefinite period of time. This will be true not only in wheat but in corn. It will be done by a system of scientific soil tillage.

Another leader in the industrial world, Mr. John A. Spoor, President of the Union Stock Yards, Chicago, has given his views in an exchange on the necessarily co-ordinate character of grain and live stock farming. Among other things Mr. Spoor says:

The feeding of live stock upon farms is essential to the preservation of soil fertility. A permanently successful agriculture would be impossible without stock raising. Only well-bred animals will yield an adequate return for the labor and feed consumed. The most wealthy, populous and progressive states of the Union are those where first-class live stock raising and improved crop growing are carried on together.

A decade or two ago the general managers of railroad companies were indifferent about live stock growing in the corn belt, and in some instances stated frankly that they preferred to haul the grain rather than have it fed to live stock and haul the latter, because the grain gave them more tons of freight to carry.

They do not claim that now. They perceive that where grain alone is raised and shipped to market, the resulting loss of fertility shown in annually decreasing yields points eventually to barren, abandoned farms in the West, such as are seen today by thousands in the older states of the East, where live stock raising for market was abandoned when the more cheaply productive West was settled.

They also perceive that if crops of grain and forage are raised and fed to live stock on the farm, and the elements of fertility returned to the soil in the shape of manure properly handled, the railroads will not only haul more live stock, but eventually more grain also, and that the increasing prosperity of the farmers, along with the increase in the fertility of their lands will enable them not only to ship more grain and live stock, but also to order more liberally of return freight in the shape of comforts and luxuries of life, as well as its necessities, so that the railroads will eventually receive increased tonnage both ways in consequence of farmers pursuing the right course.

It therefore comes back to a sensible system of live stock being the basis of the whole matter. There may be profit in grain farming for a time and it may be the ideal system of

Victor O, \$17.50



YOU can afford this Victor

Don't say, "It's right after Christmas, and I haven't the ready money." You can have this Victor sent to your home right now, and take your time to pay for it. It will be paid for in a few months, and in the meantime you'll be enjoying its fine entertainment all these long cold days and evenings and then have it "all yours" for years to come.

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You surely ought to own this Victor. What's \$17.50 for such a fine musical instrument!

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You need only to pay a little now, and then a small amount each month. There's a Victor dealer in the town nearest to you who will let you have it at once on these terms. He'll put it in your parlor right away without any fuss or red tape, and you can have its unmatched entertainment immediately.

What's the use of sitting around wondering what to do next, when you can have all the fun and music and pleasant hours that this \$17.50 Victor will bring to you! You know how hard it is to amuse yourself this cold weather, and you certainly ought to welcome this jolly Victor, especially when you can buy it so reasonably, and on such easy terms.

Go to the Victor dealer to-day, and hear this wonderful instrument sing and play, and you'll be sure to take it back home with you. If you don't know who the Victor dealer is, let us know and we'll tell you his name. Don't put it off a day.

And drop us a postal right now for the beautiful Victor catalogues, describing this and each other style Victor; giving a complete list of 3000 Victor Records; and showing pictures of the famous singers and musicians. Just say, "Send me the Victor catalogues." We'll send them at once.

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Berliner Gramophone Co., Montreal, Canadian Distributors
To get best results use only Victor Needles on Victor Records



A WOMAN DOCTOR

Was Quick to See that Coffee was Doing the Mischief.

A lady tells of a bad case of coffee poisoning and tells it in a way so simple and straightforward that literary skill could not improve it.

"I had neuralgic headaches for 12 years," she says, "and suffered untold agony. When I first began to have them I weighed 140 pounds, but they brought me down to 110. I went to many doctors and they gave me only temporary relief. So I suffered on, till one day a woman doctor told me to use Postum. She said I looked like I was coffee poisoned.

"So I began to drink Postum and I gained 15 pounds in the first few weeks and continued to gain, but not so fast as at first. My headaches began to leave me after I had used Postum about two weeks—long enough to get the coffee poison out of my system.

"Since I began to use Postum I can gladly say that I never know what a neuralgic headache is like any more, and it was nothing but Postum that made me well. Before I used Postum I never went out alone; I would get bewildered and would not know which way to turn. Now I go alone and my head is as clear as a bell. My brain and nerves are stronger than they have been for years."

Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

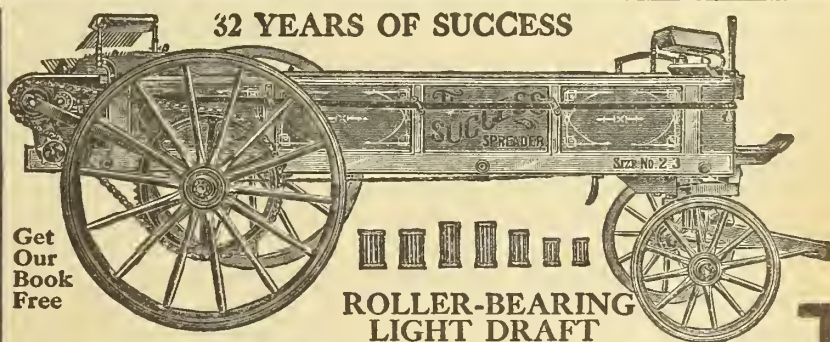
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farming because it cuts labor to the minimum, but year by year the yield becomes less until soon the point is reached when there is no profit left for the man who has the investment. Turn the matter around and feed a sensible proportion of the crop and all the roughage and follow this up by sensible returning of manure to the land and it will not be unreasonable to expect crops to double in many localities. There are thousands of farms in the central West today that are not producing more than thirty or forty bushels of corn to the acre that could be brought up to a sixty-bushel average in five years by a proper system of rotation and manuring. A year in handling live stock may not show any profits but the man that stays with it year after year is bound to reap the benefit by the increased productivity of the soil, so that in the end he becomes even a larger seller

of grain than he was in the beginning.

EVERY ONE INTERESTED.

Every member of the household, from the youngster up to the grandparents (and not forgetting the hired man), will be interested in the Red Letter Subscription Offer of The Homestead. Six of the best papers published, designed to supply the best reading matter exactly suited to young and old, will be sent one entire year if you will remit \$1.50 to The Homestead, Des Moines, Iowa. The list comprises The Homestead, The Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and National Swine Magazine.

I GIVE BEAUTIFUL WATCHES FREE

as a Premium for a \$3 Seed Order. Boys and Girls are most successful Club Raisers. Full Particulars and outfit free. A. T. Cook, Seedsman, Hyde Park, N. Y.

Checking the Dread White Plague



Farmers More Susceptible to Consumption than any Other Class of Men, Yet Prevention and Possible Cure Lie Within Easy Reach at their Very Homes---Some Practical, Expert Advice, by an Authority in One of the Grain Belt States, Which it Would be Well to Follow



THE ranks of farmers supply more patients to the Iowa State Sanatorium for the Treatment of Tuberculosis than any other classification of workers, with the single exception of housekeepers. Of forty-nine men admitted to the state sanatorium during the first five months of its existence seventeen (35 per cent of the total) were farmers. No other single profession or calling in which men engage supplied more than four patients out of the total of forty-nine.

Why does it come to pass that farmers (who spend the greater part of their lives out of doors and who have daily access to the most wholesome food in unlimited quantity) thus fall victims to the white plague in number greater than any other class of men?

The answer is that farmers do not, as a rule, pay the strict attention to dietary and hygienic matters that is essential to perfect health, to the prevention and cure of tuberculosis.

Tuberculosis, or consumption as it is more generally called, claims no less than 200,000 victims each year in the United States alone. Assuming that half these victims are men and that the Iowa ratio is maintained throughout the nation, the number of farmers who become victims of this dread disease each year is 35,000. Any advice which can be given to farmers to check the ravages of this disease should therefore be accorded the most careful attention and followed to the letter.

It is important to note that since January, 1908, forty-three states and territorial legislatures have enacted sixty-four laws relative to consumption. Twenty-eight states have appropriated \$4,000,000 to be used toward its suppression. Twenty-seven states now have, or are preparing, institutions for its treatment. Every state east of the Mississippi river except Illinois, West Virginia, Kentucky, Tennessee, South Carolina and Mississippi has provided state hospitals for consumptives. It has remained for a grain-belt state, however, to take the lead in making possible the establishment of county hospitals.

The last session of the Iowa legislature passed a bill by which it is obligatory on the county board of supervisors, on petition of 200 resident free-holders, to call an election on the question of whether a special tax (not to exceed two mills on the dollar for a period not to exceed twenty years) shall be imposed to build a county hospital, one department of which shall be given over exclusively to the treatment of consumptives. In this hospital treatment shall be given any resident of the county, regardless of his poverty, the county footing the bill if the patient is unable to pay it himself. Already a half dozen counties are preparing to put this county hospital question to the voters in the spring. The state sanatorium is doing a good work, but home treatment must be provided and the burden rests on the counties.

"Home Treatment" is the tuberculosis slogan of the day. The time has passed when it was felt absolutely necessary to go to Colorado or New Mexico to check or cure tuberculosis. Just as good results can be accomplished at home. But how? That is the question, a question which Dr. A. E. Kepford, state lecturer of the Iowa Board of Control, has answered below. By following his advice farmers may check, or alto-

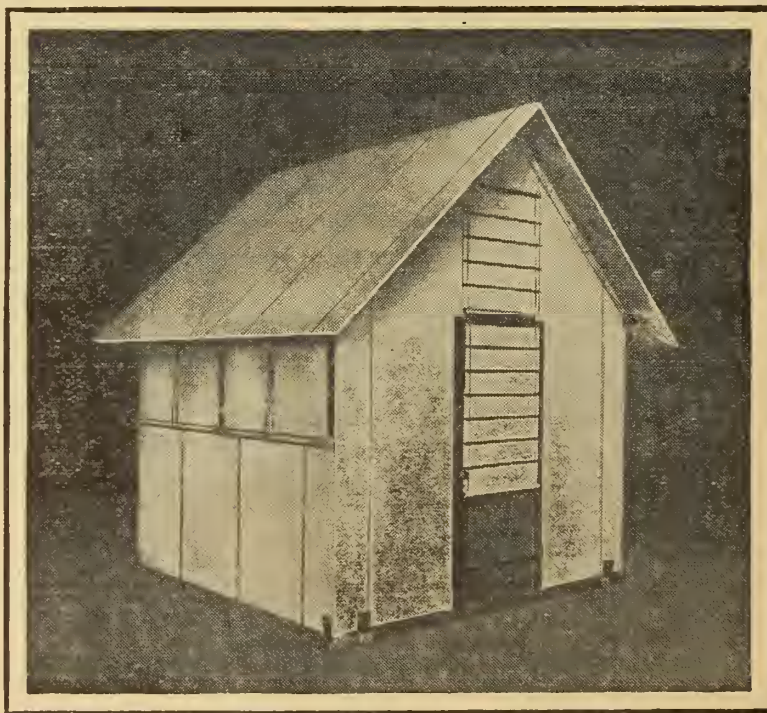
gether eradicate, this awful plague which is yearly demanding such terrible toll of them.

Fresh air is the great factor in the treatment of tuberculosis. You cannot recover without it and you must have it twenty-four hours every day. Tuberculosis being a house disease, you must find



DR. A. E. KEPFORD.

Iowa is one of the grain-belt states which employs a man to do nothing else than lecture to check consumption.



MODEL TENT FOR CONSUMPTIVE PATIENTS.

This style of tent is recommended by those who declare consumption can be successfully treated at home.

your relief either by inviting into your house the fresh air, or by yourself moving out into the open air. Should circumstances make your treatment within a room necessary, carpets, lace curtains, and tapestries should be removed, as they may make your room less sanitary and become covered with infection and dust. The windows should be at once removed and heavy canvas curtains should replace them. These curtains should never be drawn unless to exclude storm or rain. If this proves impossible of arrangement, then your bed should be placed beside the open windows.

Better than the open window is the screened porch. The porch may be on any side of the house, but an east or south front is preferable. Your bed is thus placed on the porch and this becomes your sleeping apartment.

Another method which may be employed is the tent. The tent, however, must be properly ventilated, having openings possible on all sides with large vents in the top for the escape of foul air.

But an ideal way to take the open-air cure is, where practicable, to build a shack in the front or back yard. The shack is constructed of rough lumber and with special reference to the treatment of tuberculosis. The floor is raised several feet above the ground and all sides are boarded up at least three feet above the floor. The roof is supported on eight-foot posts, affording ample protection against rain or storm. The sides are canvas, capable of being opened at will to let in the largest amount of sunshine and air.

Tuberculosis is a disease of malnutrition, attacking the underfed. Its treatment naturally suggests a building up of the lowered vitality. This can be done only by the use of large quantities of food. The food must be of the highest quality, plain, substantial, and abundant, and taken from five to seven times a day. Dr. W. A. Evans, of Chicago, says the best of meat, eggs, milk, bread and butter, with vegetables, juices, and fresh fruits to maintain a balance

are required. The feeding often has to be forced, as one may have no appetite, or if there be an appetite it may be variable and erratic. So important is this matter that the most exact and regular habits must be established with reference to it. The tuberculous patient on home treatment must always bear in mind that because he is taking his treatment at home he assumes a tremendous responsibility unmitigated by the beneficent influence of the supervision of a sanatorium. He is the custodian of his own program and on his intelligent, loyal conduct in his own behalf his cure depends.

In a disease the nature of which is to sap the vitality by degenerating the blood, the condition of the patient is frequently anemic. He is susceptible to the cold, and as a consequence shuts himself up in a room where the air soon becomes vicious and foul. In a climate like ours, you must be sufficiently clothed to protect yourself against the rigors of the weather, the body must be kept warm, and the clothing worn ought to be adapted to the changes of the seasons.

In the home treatment for tuberculosis you need to carefully guard yourself against taking too much exercise, and should you have an afternoon temperature you should take no exercise at all. The fever is the consumption and is the destructive force in the disease. Hence, if you have fever, you



LIVING OUTDOORS IS THE SECRET OF HEALTH.

Exterior and interior views of the Iowa State Sanatorium for the Treatment of Tuberculosis, at which a majority of the men patients are farmers.

SEED CORN FAMINE

TESTS AT CORN SHOWS INDICATE
A VERY SMALL AMOUNT OF
SEED FIT TO PLANT.

Mr. C. E. Twamley, who has been officially appointed to conduct tests at the Iowa State College Short Course and Corn Show now being held at Ames, has issued an advance statement to the effect that the corn being tested, which includes samples from practically the whole state of Iowa, is showing up no better than in the tests made at the Iowa State Corn Show held in Des Moines early in December. It will be remembered that the tests at that time showed a surprisingly low state of germination.

In the single ear class at Des Moines where there were 159 entries tested, only forty ears germinated perfectly. In the ten-ear class, out of 173 entries, there was only one perfect group of ears. Only seventy-four groups gave better than 80 per cent germination. The average germination on the ten-ear class, therefore, was about 65 per cent.

When it is taken into consideration that the ears tested at the Iowa Corn Show were selected and brought to Des Moines as possible prize winners, it is reasonable to presume that the average ear used by the farmers of the Corn Belt for planting this year will be much inferior and show a much lower germination than this show corn.

These tests only prove the truthfulness of warnings which have been issued by various authorities. Early in November, Professor Chappel, head of the Iowa Weather and Crop Service, issued a bulletin saying that, because of the early freeze in October, 50 per cent of the corn in Iowa would not be fit to use as seed.

Professor Holden, the well-known corn authority, at about the same time stated that Iowa corn growers were facing a crisis for next year, and predicted that if the frost-bitten seed is planted generally, the state's yield for next year will fall far below that of an average year.

The farm papers of the Corn Belt for the past few weeks have been advising every farmer to test his corn ear by ear as soon as possible. They have warned the farmer against believing his seed to be all right without giving it a thorough germination test.

AN ACCURATE TEST SHOWS ROOT DEVELOPMENT.

Some very interesting and important experiments have been carried on during the past two years on testing seed corn. Formerly it was considered that planting in soil was the most natural and best way to test. Since the invention of a water tester many experiments have been made, and it is found that while the old-style dirt or wet sawdust testers are better than not testing at all, they are far from perfect. You cannot see the root system and do not get the best seed by this method of testing. The soft, starchy, immature kernels take the moisture quicker than the hard, oily kernels and germinate quicker, so that in a week or when the tallest sprouts are up two inches, other sprouts are just coming through the soil, and many farmers save the ear that produces these tall sprouts. They are really saving the immature and weaker corn.

To get a perfect test all corn must first be thoroughly soaked or saturated. With the water tester, known as Holden's Ideal corn tester, manufactured by National Seed Tester Co., 1105 Walnut St., Des Moines, Iowa, all kernels are kept under water until thoroughly soaked, and the soft kernels are held back, as no corn will germinate while under water. It requires heat and air as well as moisture to germinate corn. This gives all kernels an even chance, and when the water is drawn off they all begin to germinate at once, and then when the test is made you can see the root system and pick out the strong, mature corn. By planting this strong seed you will almost entirely eliminate barren stalks. The barren stalks are caused by the lack of food supply, which may come from weak seed, too dry or too wet a season, or improper cultivation or cutting off the roots. You must have good roots to produce good corn. If all farmers will see that every ear of seed corn they plant is capable of producing a good, strong root system, they will not only have a better stand, but will have an ear on every stalk, instead of so many barren stalks.

Experiments also have proven that nature provides protection for all seeds. Grass and weed seeds will lay in the frozen ground all winter and grow in the spring. This is also true of corn. Fully matured corn is high in oil and will resist the entrance of water until the ground is warm. You can

DANGER!

"50% of the Seed Corn This Year Will Not Grow"--Prof. Chappel of the Iowa Weather and Crop Service

Test Your Seed Corn! Don't Plant Damaged Seed!

There are millions of bushels of corn in the Corn Belt this year, which, because of the early October freeze, will not germinate 50 per cent. Will you be foolish enough to throw away a season's profits by planting damaged and weak seed? Do not depend on your corn being strong in germination because a neighbor, by testing, found his corn in good condition for even different parts of the same field have shown this year a widely varied vitality. Nor should you be satisfied because your corn appears hard and firm. Some of the best appearing corn of this year's crop has shown a germination of less than 20 per cent. Here is what the editor of The Iowa Homestead who is an extensive corn grower had to say last week.

"This paper is not inclined to shout 'wolf, wolf' when there is no wolf. While we do not desire to unduly alarm our readers about the prospect of the seed corn to be used in planting the 1910 crop, we are concerned about the matter.—Each individual farmer should discover for himself the germinating quality of his seed supply. This ought to be done early."

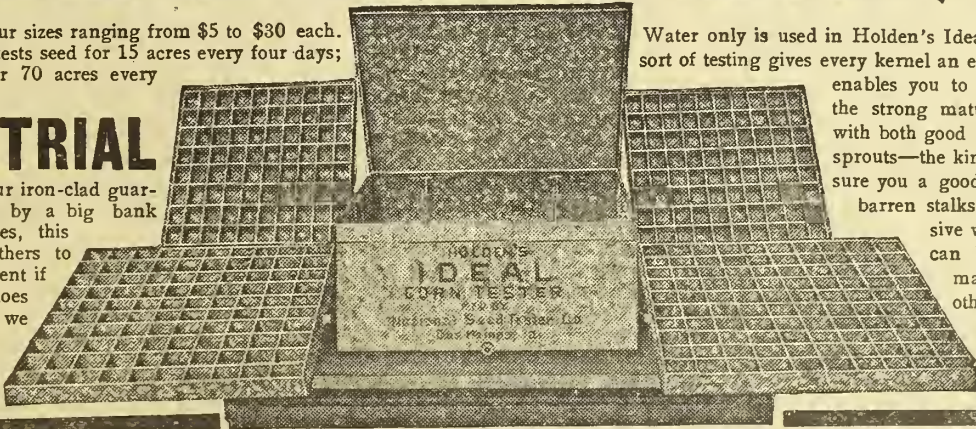
GET HOLDEN'S IDEAL CORN TESTER

ENDORSED BY EXPERTS AS THE SAFEST, SUREST AND QUICKEST

Made in four sizes ranging from \$5 to \$30 each. The smallest tests seed for 15 acres every four days; the largest for 70 acres every four days.

FREE TRIAL

covered by our iron-clad guarantee backed by a big bank in Des Moines, this paper and others to return every cent if our tester does not do what we claim for it. No risk, order today and begin testing.



Water only is used in Holden's Ideal Tester. This sort of testing gives every kernel an even chance and enables you to pick out easily the strong mature seed—those with both good roots and good sprouts—the kind that will insure you a good stand and no barren stalks. This exclusive water test feature can be used by the manufacturer of no other tester as it is covered by patent on file at Washington.

Holden's Ideal tester is a great improvement over any other tester and so much more reliable and trustworthy than the other makes or home contrivances that comparison is out of the question. No dirt, sawdust or sand to hide the development of the roots which should be watched as closely as the tops. It insures an even sprouting of all kernels. This is very important. Some testers cause the soft, starchy kernels to show up to the disadvantage of the hard, oily corn which is slower to germinate but of greater value. You will not be safe without a Holden Ideal Corn Tester.

What Will Half A Stand Mean To You?

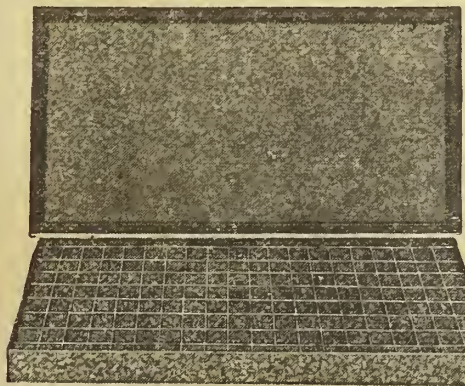
Just figure for a minute how much you will lose next year by getting only half a stand. Yet this will most certainly be the predicament many farmers will face next June. The hours spent this winter in testing with a Holden Ideal Tester may increase your crop one-half or two-thirds. Do away with the field test. Better to test your corn with a Holden Tester before planting than to follow the old method of planting in the field and then replant where seed fails to grow. A stand is what you are after, brother farmer.

Profit By Your Brother Farmers' Negligence!

Thousands of farmers are not going to heed the warnings recommending testing by the U. S. Department of Agriculture, agricultural papers, Professor Holden and hundreds of other experts. Many will just "trust to luck" and plant without testing. This points toward a crop shortage for next year and high prices. Demonstrate to your neighbors that you are a shrewd farmer by raising a bumper crop on a high price market year. Holden's Ideal tester will do this for you.

A
FREE
BOOK FOR
THE ASKING

A Few Dollars Insures A Bumper Crop



The price and capacity of the HOLDEN IDEAL TESTERS are as follows:

No. 1, Box Tester, tests 35 acres in 4 days, \$10
No. 2, Cabinet Tester, 35 acres in 4 days . . . 15
No. 3, Cabinet Tester, 70 acres in 4 days . . . 30
No. 4, Tray Tester, 15 acres in 4 days . . . 5

Why delay? Send in your order and begin testing at once. We are selling them fast. You will run no risk. We are responsible, (the publisher of this paper says so).

USE THIS COUPON

NATIONAL SEED TESTER CO.,
1105 Walnut Street, DES MOINES, IOWA.

Dear Sirs:—Enclosed find \$_____. Send me your No. _____ tester with the distinct understanding it is to be returned and my money refunded if not up to your claims.

SIGN _____
No. 4 Holden Tester. Ship at once.

not wash an oily cloth in cold water, but put it in warm water and the water will dissolve the oil. It is the same with corn. If placed in the ground when the weather is cold and wet, this oily corn will not absorb moisture, but wait for the warm sunshine to heat the ground and drive the moisture into it. It will then germinate strong, while the soft, immature corn will take the moisture at once and germinate, only to be killed by exposure or smothered on account of too much water in the ground shutting off the air before the corn is up through the surface. This is the cause of

so much replanting in a wet spring. The immature corn germinates, but never gets through the ground. The hard, oily mature corn would have resisted the moisture until the ground was warm.

These experiments have been carried on since the invention of the water tester, and this kind of a test is rapidly becoming recognized as the only practical test. Mr. John Sunberg, of Whiting, Iowa, who raised 153 bushels of corn on one acre last season, used the water test in selecting his seed, and states that he believes that it is the only way to tell good, strong seed. Nearly all

the leading corn men of the corn belt have the same opinion of the water test, and it seems certain to become the only kind of test for the future. It has certainly developed many new lines of study, and proven that we must work under the ground and develop a good root system if we ever hope to eliminate the barren stalks and make record yields. When one man can raise 153 bushels of corn to the acre, and many who make a study of corn raise from eighty to 100 bushels, it seems a shame that the average yield of corn is only about thirty bushels to the acre.



(+) These boxes with the cross contain non-germinating kernels from a dead ear.

Good, vigorous roots from a healthy ear.

Make Big Money This Winter

With An American Saw Mill

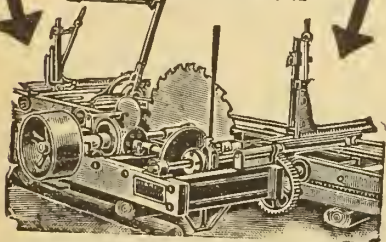
All Sizes

This simple, light running mill makes more and better lumber with less power and less help than any other. You can set up and operate any American mill with the directions before you. If you have no timber, your neighbors have. Don't let your engine lie idle.

124-Page Book, Free

Containing valuable suggestions about the care of saws, fully describing the features that make our mills best, giving prices and guaranty and full information about our Wood Saws, Shingle Machines and other wood working machinery. Write for book today.

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203 Hope St., Hackensack, N. J.
1693 Terminal Buildings, New York

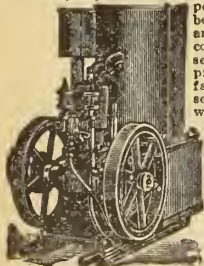


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30 Days Free

Gasoline Prices Rising.

You can't run a farm engine profitably on gasoline much longer. Price of gasoline going sky high. Oil Companies have sounded the warning. Kerosene is the future fuel and is now five to ten cents cheaper than gasoline. The amazing "Detroit" is the only engine that uses common lamp kerosene (coal oil) perfectly. Runs on gasoline, too, better than any other. Basic patent. Only 3 moving parts. Comes complete ready to run. We will send a "Detroit" on free trial to prove all claims. Runs all kinds of farm machinery, pumps, saw rigs, separators, churns, feed grinders, washing machines, silo fillers and electric lights. Money back and freight paid both ways if it does not meet every claim that we have made for it. Don't buy till you get our free catalog. 2 to 24 h. p. in stock. Prices \$29.50 up. Special demonstrator agency price on first outfit sold in each community. 2000 satisfied users. We have a stack of testimonials. Write quick. (20)



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develop the full rated horse power and more. Guaranteed for five years and shipped on ninety days' approval. Best and simplest engine made. Just the engine for the farm. Runs cream separators, churns, pumps, feed mills, corn shellers, washing machines, wood saws, drilling, etc. We will refund your money and freight charges if our engine does not please you in every way. Write for our literature and see the money we can save you.



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An American Harrowing Attachment on your sulky plow or gang saves one harrowing, does the work better and adds practically nothing to the draft. You can get one without extra cost when buying American implements, and you

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Our Walking Plows, Disc Harrows, Cultivators, Sulky Plows and Gangs are all sold to the farmer at a big saving in price.

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and every implement is guaranteed on the money-back basis. Write for large Free Implement Book and get all the particulars.

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should not even sit up, you should lie down. This is an important point and those who imagine that they should take vigorous and heroic exercise should have their minds disabused at once. (A person who is below normal weight should take no exercise at all until he has regained his usual weight.—Kirschner.) Your exercise should always be directed by your physician. This rule must not be violated.

Let it be understood at this juncture that your treatment must be under control of a competent physician. The control of your case is a very large per cent in effectuating a cure. The daily program laid out by the physicians must be followed without alteration or equivocation. Progress toward cure will be affected favorably or unfavorably by your attitude in this matter.

The sputum (spit) of the tuberculous person is infectious, as it is filled with the germs of tuberculosis (tubercle bacilli) and so becomes dangerous when carelessly expectorated. It will be seen that your sputum must be expectorated into some receptacle where it can be destroyed. The sputum should be burned in the fire or expectorated into a cuspidor in which an antiseptic solution will act as a germicide. A paper device for this purpose, to be burned immediately on use, can be easily arranged. Rags or cloths should not be used. This is vitally important under any conditions, but especially so should there be any children in the house. It is plain that if you are taking home treatment the utmost care must be exercised by you to prevent infecting the other members of the household. Your sputum must not be swallowed, but should be expectorated. Other parts of your body may be infected by the germs being carried through the stomach and intestines.

There is no drug known to the medical profession today that will cure tuberculosis and after long experience on the part of the profession it has been found that few drugs are indicated in the treatment of this disease, and when medication is necessary it should always be directed by a competent doctor. On the loyalty of your stomach the hope of future cure depends, and if that organ is taxed by having to digest large quantities of nostrums its power will be impaired, and the chances of your recovery lessened appreciably.

If you are a user of intoxicating strong drink you must cease at once as one cannot be cured who insists on using intoxicants. Remember that you have a "consumption" burning the vitality from your blood more rapidly than nature can restore it. If upon your already devitalized condition you impose an additional burden you may as well abandon hope of recovery. You must leave liquor alone.

Remember there is no sure cure for tuberculosis other than that earned by painstaking and intelligent action. Avoid all nostrums and other cures as you would a venomous serpent. These drugs can do you no good and may do untold injury. The so-called "cold"

Get 10 Bushels More Oats Per Acre Using The New Peoria Drill

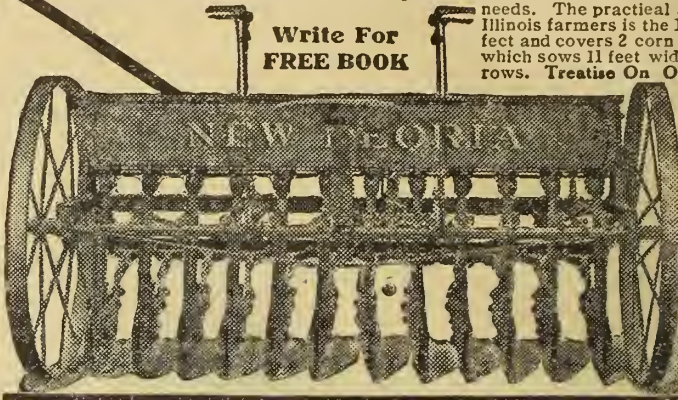
You can get these results, and with a saving of one-third on the Seed, because our disc deposits all the seed in the furrow and properly covers it. No seed is left on top, subject to the weather or for the birds to pick up. Every seed sown by the Peoria Drill counts. Send for the proofs.

The Peoria is equally superior to all others in time and labor-saving features. It has two levers instead of only one, making it extremely easy for driver to handle. Levers are handy to the seat, making regulation of depth so simple that a boy can operate the Peoria with ease. It is the only drill with a drop frame, making it the strongest and simplest made. Has fewer parts than any other. We guarantee to furnish free any disc bearings that wear out.

High Wheels—Light Draft—Double-Run Feed—Sows all Varieties of Small Grain; Also Corn, Peas, Beans, etc., Without Injury To Seed.

Other drills have wheels 42 inches or 44 inches high. Ours are 48 inches, with long hub and wide tires. Means easiest pull. Made in 18 sizes—one for every man's needs. The practical size for Iowa and Illinois farmers is the 12-7, which sows 7 feet and covers 2 corn rows; or the 18-7, which sows 11 feet wide, covering 3 corn rows. Treatise On Oats Raising—Free. Send postal now for this valuable book, also catalog of Peoria Drills and opinions from men who know by experience what this drill will do. Address

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FREE BOOK



Peoria Drill & Seeder Co.
2424 N. Perry Street,
PEORIA, ILL.

and "cough" cures are frequently destructive agents and will hasten to a fatal conclusion your disease. Do not invest one cent in any of these advertised remedies and spend no time with the so-called "specialist" who advertises that he can cure consumption. He cannot cure you. No one can cure you. If you are to get well you must earn your own cure.

Bodily and mental rest are essential in your treatment. So necessary are those conditions that they stand far up in the category of demanded things. Physical depletion and mental worry are large assets of the plague. They must be overcome. Resting easily in bed or reclining in a chair, breathing deeply of the oxygen from pure air flooded with sunlight (the greatest germicide known to man), eating generously of wholesome foods, enjoying the fellowship of loved ones near and inspired by a feeling of trust in the great curative forces of nature around you, vitality will flow into your physical being like floods from the melting snows on the mountain.

Taking your treatment at home, as you are, a word about climate will be of value here. Statistics show that tuberculosis is about the same per centum curable in any climate. The chief need is the getting an abundance of pure, fresh air constantly into your lungs. The colder the weather, if your body is well protected, experience has shown, the better the results. You need not fear the night air, for you can have no other air to breathe at night and it is free from dust, and so purer than day air. The climate in which you are taking your treatment is splendid, but you must give it a chance.

Cleanliness is essential to the well-

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being of the patient. The poisons which are being constantly eliminated through the pores of the skin make frequent bathing necessary. The bath should be taken twice each week when the patient rises from bed and should be of short duration. Also the chest should be sponged each morning. Cold water should be used, but until the patient becomes accustomed to it he may use tepid water.

This disease is spread by contact of the tuberculous patient with the members of his household. The infection is the germs found in the expectoration (spit) coughed up by the patient. You must expectorate into some receptacle from which it can be destroyed in its moist state. During the act of coughing or sneezing you should place a paper napkin before your face to prevent flecks of bacilli-laden matter from being dissipated into the air. These papers should be immediately burned. The intimate social contact of the home which finds expression in the handshake and kiss must be avoided, as you may transmit the germs in this way to those who are dear to you.

A ton of wheat takes \$8.50 worth of fertility from the soil on which it grows and sells for about \$30. A ton of butter fat, on the other hand, sells for about \$500 and takes only fifty cents' worth of fertility from the soil. Selling wheat is selling soil, while selling butter is selling air, sunshine and water. A dairy cow returns to the soil three-fourths of the fertility in the food she eats. The dairy cow produces several times as much food as a beef animal. She yields on the average about 1,000 pounds of dairy food matter each year for about six years. The average beef animal, according to careful computation, produces about 240 pounds of dry food matter in a year and has to die to yield it.

We notice that Lucy Gaston Page is taking up the crusade against undressed poultry on the ground that it is immodest to display the form of a knock-kneed rooster to public gaze, says an Iowa country editor. Lucy probably thinks that the deceased ought to be attired in a sunbonnet and pantalettes. People have queer ideas. Lucy kicks on giving a hen a close shave, but she will hobnob with the society push who can show more scrawny necks in one evening than a barnful of plucked pullets.



Prize-winning Red Polled bull included in the Red Polled sale of Messrs. Arp-Clouss-Converse, at Sioux City, Iowa, January 19th. See advertisement on page 52.

CURRENT EVENTS

CONGRESS has reconvened after the holiday vacation and has settled down to business. Representative Humphrey, of Washington, has introduced a ship subsidy bill which is said to have the approval of President Taft. It provides an increase in pay to American ships carrying the mails to South America, China, Japan, the Philippines and Australia, bringing it up to \$4 per mile for an outward voyage of 4,000 miles or more. A resolution has been adopted calling for an investigation of the charges made against Secretary Ballinger of the interior department by Mr. Glavis of the forestry bureau, co-worker with Chief Forester Gifford Pinchot. Mr. Pinchot has written a letter to Senator Dolliver, chairman of the committee on agriculture in the senate, sustaining Glavis as a "most vigorous defender of the people's interests, despite the fact that President Taft has declared Glavis unfit longer to remain in the public service." This letter has precipitated a merry row, the president calling his cabinet advisers together to consider disciplining the chief forester severely. Committees have been appointed in both the house and the senate to consider all the Glavis charges thoroughly and it is probable that much valuable information as to the procedure both in withdrawing and restoring public land to entry will be disclosed. In the meantime congress will wrestle with the ship subsidy, the central bank of issue, the parcels post and the postal savings bank. It has plenty of work mapped out and most of the matters are highly important.

GOVERNOR HUGHES has taken another determined stand against horse-race betting, asking the New York legislature to pass a law making oral betting punishable as well as regular bookmaking. His stand is opposed by one member of the legislature, who declares the governor is fighting a small gambling evil and overlooking a large one: Wall street stock exchange, which he calls "the biggest gambling institution in the world, driving men to suicide, robbing widows and orphans, playing with a stacked hand, playing with marked cards." This counter attack will not deter Governor Hughes, however, from pushing his race-track crusade. He is entitled to credit for driving the bookmaker out of business in New York, and closing up the pool rooms. He is a stalwart power for righteousness and proposes to do all he can to remove temptation from the weak and the reckless.

MARK TWAIN, broken in body and spirit, has returned to the West Indies to try and regain his health. A couple of years ago his wife died. A fortnight ago his favorite daughter, Jean, was found drowned in the bathtub. She was subject to epileptic fits and succumbed when one attacked her during the bath. Her sister had recently married the famous Russian pianist, Ossip Gabrilowitsch, and was out of the country at the time, so that Twain had no kin near him in his time of great grief. The famous humorist is said to be badly broken up, and it is doubtful if he will ever write any more. He is probably the greatest American writer of the day and has made millions happy because of his quaint, homely philosophy and humor.

COMMANDER PEARY, having had his claim to discovery of the North Pole substantiated, is said to be considering an expedition in search of the South Pole. It will be recalled that Lieutenant Shackleton, a British navy officer, came within 110 miles of the South Pole last summer. Commander Peary believes his good ship, the Roosevelt, and his splendid party of navigators and assistants would be as successful in the antarctic as in the arctic regions. Mrs. Peary is very anxious for him to give up exploring and settle

down at home, as he has spent twelve years of the past twenty-three away from home, in arctic regions. But Commander Peary is intrepid, ambitious and fearless and it is highly probable that a year or two from now he will be southward bound. He seems to have effectually disposed of Dr. Cook's claims to priority at the North Pole, although Cook's relatives still maintain he will make good his claims at some future date. In the meantime, however, no one has located Cook, and his flight adds credence to the charge of faking.

JOHAN D. ROCKEFELLER, JR., is foreman of the special New York grand jury which is investigating the white slave evil, as the traffic in immoral girls and women is called. When Mr. Rockefeller was called he tried to be excused on the ground of business, but the judge declared he owed a debt to the community and should pay it. Mr. Rockefeller at once withdrew his request for excusal. Jury service is not always pleasant, but it is a duty and should be considered as something to be done to the best of one's ability rather than something to be shirked on any and all pretexts.

THE Wright Brothers have applied for an injunction restraining any foreign aviators from making aeroplane flights in America on the ground that their machines violate the Wright patents. The Wrights have already organized a company with a capitalization of \$1,000,000 to control airship manufacture and sale in the United States.

It would appear now as though they were trying to get an exclusive monopoly on the world as well. They have already reaped immense financial returns from their genius and their efforts to stop competition is reprehensible, especially in view of the fact that aerial navigation is simply in its infancy and needs many men and many minds to bring it to perfection.

CHARLES W. MORSE, the New York banker, has begun serving his fifteen-year sentence in the federal penitentiary at Atlanta, Ga., but not until he had exhausted every legal subterfuge to escape punishment. Mr. Morse is extremely bitter, declaring his "the most brutal sentence ever pronounced against a citizen in a civilized country." He seems to forget, however, the misplaced confidence of thousands of depositors who trusted their all with him. Misplaced trust should be held most reprehensible among the failings and crimes to which humanity is prone.

THE panic of 1907 was the cause of the decrease in births in New York in 1909, according to Prof. F. H. Giddings, of Columbia University, who reviews the statistics just issued by the health department. "Although the financial depression began in the fall of 1907," comments Professor Giddings, "it was not generally felt in the industrial and commercial world until 1908. Everyone was hard up and the immediate effect was postponements of marriage. The figures show that the number of marriages went from 37,599 to 41,483 in 1909, an increase of 3,884. This is not due to any unusual popularity of marriage, but to the number who delayed weddings in 1908 until times should get better. Now, this decrease of marriages in 1908 had little effect upon the number of children until 1909, and for that year we find, very naturally, a fall of 3,429 from a total of 126,865

in the previous year. It is by no means a coincidence that the increase of marriages in 1909 is approximately equal to the decrease of births for the same period. The figures prove how closely marriage follows prosperity and how there is an immediate effect of financial depression upon the birth rate."

WILLIAM J. GAYNOR assumed the duties of mayor of New York City on New Year's day and immediately issued a statement paying tribute to Charles F. Murphy, the Tammany leader, who, Mayor Gaynor says, is not nearly so black as he is painted. The mayor denies that he is at all controlled by Tammany Hall or its leader, but asserts that simple justice demands the statement from him that Murphy is a better man and a cleaner politician than he is given credit for being. The tribute is small consolation to Murphy and Tammany Hall, however, for while Mayor Gaynor is thus friendly, the board of estimates (which has the control of all the city's money) is decidedly anti-Tammany. In some respects the office of mayor of New York City stands second only to the presidency, there being thousands of employees to appoint and millions of dollars to be spent each year. Mayor Gaynor finds his hands tied by a board of estimates which while not positively hostile is committed to reform and economy and acknowledges no allegiance to Tammany Hall. The result may be a cleaner administration for New York, but it is likely to cause heartburnings to Tammany and all connected therewith.

EFFICACY IN EXTERMINATORS.

An exterminator of real merit for Rats and Mice should clear them out for six months. Any exterminator worthy of the name should not be wanted for Rats and Mice oftener than twice a year. Rough on Rats meets these requirements—the old reliable that never fails, the unbeatable exterminator; Don't Die in the House; equally effective for Roaches, Ants and Bed Bugs. 15c., 25c., 75c., at druggists.

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It was the first and still is the only genuine. All other "tongueless" discs are weak imitations of the Detroit-American—old shifts—old style discs with tongue cut off and trucks stuck under in front. Remember, that the Tongueless Disc is sold only by us, direct from factory to farm. Let no dealer or mail-order man give you an imitation. We sell to no dealers—only direct, at low factory price. Get our book. Then you'll be prepared to tell all the others that you can do better.

Don't get into another season without this savor of horses—this savor of bother—this better working harrow. Does away with the tongue-thrashing and jamming of horses, that pulls them down or puts them out of use entirely, just when most needed.

Just let us send you one on

30 Days' Free Trial—No Money—No Deposit
Cash or Credit—Take Your Choice

We want to quote you a price that you will find mighty interesting and we want you to try this harrow entirely at our risk. Use it a month—or even more. If it does the work as we say it will, send us the price—if not, return the machine. We take care of the freight in both cases; the test won't cost you a nickel.

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Not only best Harrow book published, but best book on Manure Spreaders—the famous Detroit-Americans at cut prices, best book on Cultivators—all at lowest factory prices and on same liberal terms. Send coupon or postal for this guide to the right harrow at the right price.

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Better than Ever—at the Same Low Factory Price—the One Genuine Tongueless Disc

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In five years this machine has revolutionized disc harrowing on the farm—revolutionized the harrow business—and made a reputation for itself that no other disc has ever made. **All-steel frame.** Hard-maple bearings take up end thrust; sections do not run together in the center; rigid steel adjustable standard; pipe oilers away from dirt and most convenient; shifter bars and adjustable bumpers; double levers; indestructible steel spools between blades; steel sections; no breaking.

17 Sizes and Styles—Cut From 4 to 10 Feet



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Send me your new, big book, free, and quote me your low, direct factory price.
Name..... Town..... R. F. D..... State.....

WHEAT AND CHAFF

BY E. N. BAILEY

Somehow it gives me great delight
To see a dog and tomat fight;
To watch Sir Tommie's "swell" prelude
Just when he strikes an attitude—
and spits.

To hear the dog's aggressive howl,
Also the cat's defiant yowl;
To see their methods of defense
About the time they both commence—
their dialogue.

A man without brains is preferable
to brains without manhood.

A typewriter without a ribbon and
one that can spell and punctuate is
a mechanical device that is wanted
the world over.

Too many promising youths keep on
promising all their lives and never
pay. Give us a promising youth that
develops into a paying man.

A promising young man has two
suits each year; he buys one in the
spring on promises and has a lawsuit
before he pays for it in the fall.

A Dago working on a western road
was warned to beware of the rattle-
snakes, but told that they always
rattled as a warning before they bit.
The Dago accidentally sat down on a
cactus, when he ran to the boss howl-
ing, "Rattlesnaka bita ma lega, no
ringa da bella."

It's Not a Square Deal.

Scientists claim that the sun is six
million miles farther from the earth
in summer than in winter, and that
the reason it is hotter in the summer
than in winter is because it strikes

us square in summer. Who believes
it? How can a round sun hit a
round earth square? Would that be
a square deal anyhow? Now, if it
were a three-cornered sun, hitting a
rhomboidal earth, or a parallelobi-
pedal sun striking a cylindrical earth
there would be some sense in the
contention. To prove this, just sit
cornerwise and you will be just as
hot as though you sat squarely. This
proves the fallacy of the square argu-
ment, and a man often gets hotter
when cornered than when he is up-
right and square, either summer or
winter.

The Tuberculin Test.

One of the most remarkable dis-
coveries of modern times is the tu-
berculin test. It ranks alongside of
the discovery that by putting green
spectacles on a cow you can make
her believe that rye straw is hay and
can then winter her on it, but the
cow usually dies of starvation the
second week. Up to the time of the
discovery the cow had roamed at will
with only one lung, or a part of one,
leaning against the fence when she
listed or rolling her tail over her back
in fly time in glad abandon. The red
corpuscles in her blood might be as
scarce as hen's teeth, but so long as
she would "give down," "hist" and
"so" when told to, no one ever thought
of investigating her inside works or
attempting to solve the mysteries of
her true inwardness. Then came the
discovery that her milk caused con-
sumption, warts, St. Vitus' dance,
hangnails, whooping cough and vari-
ous other ailments incident to man.

There are a variety of ideas as to
the proper method of applying the
test, but probably the surest way is
to kill the cow first and apply it
with a mop. This is better than to
apply it while the cow is alive, for
she has to be killed anyway before
you can find out if the test is any
good and it is frequently best to hold
the post-mortem while the cow is
alive.

Should your cow look sad, dejected,
down in the mouth and eat bran mash
without running her tongue up her
nose at least a foot, she should have
the test prior to scientific dissolution.
You can load the test into a double-
barreled shotgun and shoot it into
her, or run a joint of stove pipe down
her throat and pour it in with a dip-
per. Either way is best. Should she
respond to the test by belching or
shaking her head she has got it bad,
and if she only looks sorry and holds
her head down she has probably got
it anyhow.

Let it work a spell and then turn
her on her back and open her and
watch the convulsions of nature. Re-
move everything but the tenderloin
and the big casino. If the lungs are
diseased, throw them away; if not,
give them to the dog. One good,
healthy lung will last a liver-colored
bird dog until the gophers come and
have considerable lung left then. Look
the heart over carefully and see if it
has ventricles; if so, remove them or
she may have ventriculosis and that
is usually fatal. Take the hide off,
as it is in the way anyhow, and be
careful to not cut holes in it so it
will leak. A leaky hide is an abomina-
tion to the meat trust and to the
hide and leather heads.

Probe the liver for microbes and
hookworms; possibly your cow was
lazy, and now you are at it find out
all about it. If you need anyone to
help take the cow apart hire a corn
husker—he is used to taking things
apart. In case you find hookworms,
destroy them; they may get into the
human race and cross on those al-
ready there. It would be horrible if
a lazy man should get inoculated and
also have the dry murrain, and these
may be the cause of the extreme dif-
fidence, indolence and insouciance of
your cow. Investigate the stomach
for trichina and rabies; she may have
impaction of the omasum caused by
the nonchankableness of the cudibus.
Search the kidneys faithfully for
traces of fusil oil.

If all these organs are found to be

About Those New Buildings Mr. Farmer

Build them of Concrete

There is no other one
thing that causes you so
much trouble as rats. It's
money in your pocket to
make your floors, cribs and
barns rat proof—make them of
Chicago "AA" Portland Cement.

They'll Be Rat-proof — Fire-proof — Repair-proof

The uses you can find for Chicago "AA" Portland Cement on your
farm are almost without number. Silos, cribs, barns, dwellings, fence posts,
floors, watering troughs are a few. No other building material is so cheap
—no other building material is absolutely indestructible. There is as much
difference in the quality of the various brands of portland cement as there
is in horses, but there is only one quality brand—

Chicago "AA" Port-land Cement

It never varies in fineness, color, composition and purity. Scientific-
ally tested before leaving the mills—it is easy to work and

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Farm buildings built of Chicago "AA" are better
buildings because they are rat-proof, fire-proof,
time-proof and cost less than wooden ones.

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They tell you
in plain, easy
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ities, how to plan and erect concrete struc-
tures, how to mix concrete, giving tables and
rules for the amount of material required for
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valuable information—yours for the asking.

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Better Farming A John Deere Book —Just Out A Farmer Can Get It Free

If interested in farming, get our FREE
book called "BETTER FARMING."
It tells all about—

Alfalfa	Making Hay
Dairying	Fighting Frost
Seed Wheat	Silos
Corn Crops	Cultivation
Stock Feeding	Cotton Crops
Art of Plowing	Soil Fertility
Boll Weevil	Gasoline Engines
Controlling Weeds	Adjusting Plows

Hired Help Costs Big Money

Your land is high priced and hired help expensive.
There is only one way to make big money—use im-
plements that cut down the cost of your crops. Isn't
it true that when you break something on a plow it
is nearly always a cast part? Wherever strain comes
on a John Deere Plow there you will find steel—tool
steel. Take any plow that has had hard work for
five years, put it along side of a John Deere which
has been in service that long—and see the difference.
Then there is no paint to cover up poor material.
You can see the wear and the defects. The John
Deere will be solid, staunch and ready for the hard-
est job. Then you begin to know that quality counts.

You can take pride in owning a John Deere—
the standard plow of the world for
two generations.



We will send you the 80-page, illus-
trated book free if you write and ask for

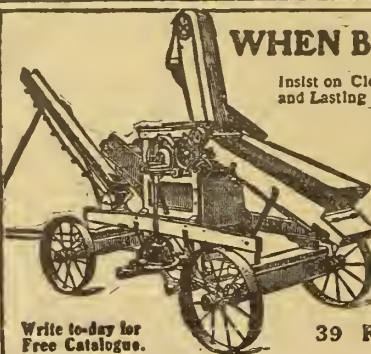
Package No. 27

Mention the package number sure, then
you will get exactly the right stuff.

DEERE & COMPANY, MOLINE, ILL.

WHEN BUYING A CORN SHELLER

Insist on Clean Shelling, Thorough Separation, Large Capacity
and Lasting Qualities. These are Distinctive Features of



Write to-day for
Free Catalogue.

The NEW HERO

2-hole and 4-hole Custom and 2-hole
Farmers' Positive Force-Feed Shellers

They have Chilled Working Parts and other points of
strength and convenience. We make Horse Powers,
Wood Saws, Huskers, Farm Trucks, Manure Spreaders,
etc. We guarantee our Goodhue Wind Mills for five
years.

APPLETON MFG. CO.,
Batavia, Ill., U. S. A.

39 Fargo Street

normal, then your cow did not need
the test; however, it will be best to
butcher her, as she will never be the
cow again that she was once. Save
the lips; nothing is nicer than
cowslips for greens. If the tongue is
rough like the cylinder of a clover
huller, and the color of a claybank
mule, it will be fine pickled with
onions and horseradish. Cows tested
in this manner will not impart tuber-
culosis through the milk.

This is the regular way that all
modern scientists go at it, except
that it generally takes another cow or
two to pay the bills. Follow these in-
structions and you will not lose more
than the one cow. A cow saved is
worth two ground up into fertilizer.

Charlie's Sad Case.

A young man writes asking advice
under singular circumstances. "My
girl has told me that I can't come to
see her any more; her mother threw
a bucket of swill all over me, and her
father kicked me out of the house
and over the gate and set the dog on
me. What would you advise me to
do?" he asks.

Your case is an extreme one,
Charles, but not altogether hopeless.
It does not come under the head of
"favorable auspices," yet it is not in
the class with "the deceased who
died is now defunct and there is lit-
tle hope that his remains will be re-
suscitated."

It might have been worse. You do
not say that the swill was hot, nor

that the dog was one of those canines
with teeth like a smoothing harrow
and a mouth like the grand opening
of a department store.

Go back, Charles, and wear a rub-
ber overcoat that will shed swill, put
a pillow in your trousers where it
will do the most good and feed the
dog a biscuit with a "deadener" in it.
Tell your dulcinea that though the
heavens open and the earth dissolves,
neither lightning, bad weather nor bugs
will deter you from occupying a po-
sition at her right hand. Snuggle up
to her close, awful close, and lose no
time. Some of the most confirmed
scalawags of the age have captured
the best of wives in this manner and
neither boots nor dogs have succeeded
in breaking the ties that bind closer
than a summer resort closed for win-
ter. Depend upon it, Charles, if you
make your attack aggressive and
swift, you will have her leaning up
to you like a sick kitten to a hot
brick, and they can't throw swill on
you without throwing it on her, too.
If the old man has gone to bed before
you get there, Charles, pour molasses
in his boots; it will soften them ma-
terially in case of stress.

The Hill railroads are not so called
especially on account of their steep
grades, any more than are those that
Vanderbilt.

Some men spend time, money and
talent enough in the promotion of ras-
cality to make millionaires of them-
selves in legitimate business.

DAY BY DAY

AGRICOLA

Probably the main reason why the fireless cooker receives so cool a welcome is that cooking is done by women and they are suspicious of new-fangled methods. Mere man would get the thing and try it and throw it into the junk heap if it didn't make good, but his sweeter half feels offended at any hint that her cooking can be improved upon in methods or results. If this is not the reason, what in the name of Samuel Hill, D. D., is the reason.

I have noticed that the man who can put up the most successful bluff is generally a big fat man who knows when to keep his mouth shut.

Queer as it seems, the fast man is soon overtaken by misfortune.

The man who is always on the go needs a good wife's counsel to tell him how to stop when he gets there.

What is there in a fish pole that is so destructive to a man's veracity?

Loss of character is always deplorable, but it would be the tip top of good luck for some men if they could lose their reputation.

Seldom will even a vain and unreliable woman give an untruthful answer if you ask her about her age. She will say it is none of your business.

It is a comforting thought that people are not generally so black as they are painted—not even negro minstrels.

Trust in Providence is beautiful and blessed, but if you jump into holes with your eyes open and think Providence will pull you out you are a sucker.

Old age brings experience. This rule sometimes works backwards.

The butter market is in a measure the thermometer of national prosperity. It is high in good times and low in hard times. Farmers do not milk cows for fun nor for health, and many will not milk even for profit unless the force of dire necessity compels. Butter is unusually high because it is unusually scarce. So are other food products high because of the demand. But the supply of butter can be increased at will, the supply of grain depends more upon weather conditions.

Another reason for butter scarcity is that too many dairymen keep milch cows instead of milk cows. Milk is necessary in butter making and not all cows give enough milk to pay for their board.

There is a constantly increasing sale of oleomargarine right here in the heart of the dairy industry. With butter retailing at forty cents and oleo at twenty-two and a half cents, the prudent housewife buys a pound

THE KNOX BIG GRINDER

The Fifty-Bushel Per Hour Mill

From Factory to You
At Wholesale Price

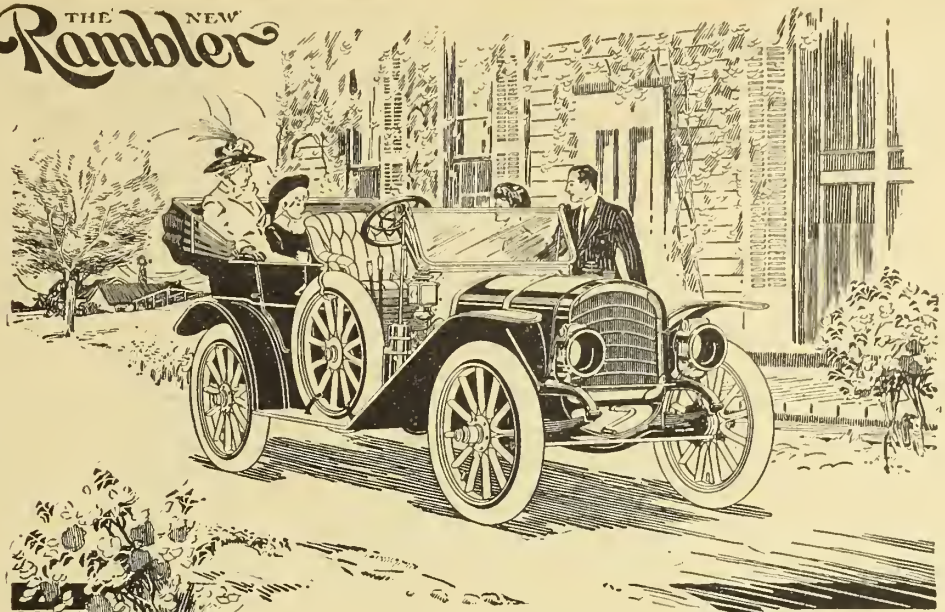
If it is not the best grinder you ever used we will refund your money



We also make Power Mills, Feed Cookers, Gas Engines, Tank Heaters, Etc.
Write for free catalog and wholesale price.

WESTERN HARNESS & SUPPLY CO.,
614 Main St. WATERLOO, IOWA

THE NEW Rambler



When Mother Goes to Town

Does she spend half the day on the road behind a good-natured plodding horse? With the new Rambler one of the boys or girls can take her in, leave her to do her shopping and return later in the day. She will come home refreshed instead of wearied. Many women drive the new Rambler. It is so easy to operate and safe to start. There is an air of good taste and refinement about it. It's so noiseless in its motion—so dignified in every appointment.

With big wheels and tires, long wheel-base and Rambler upholstery, it's more comfortable than a carriage. You feel as safe as in a low phaeton. With offset crank-shaft and straight-line drive the Rambler never hesitates on the hills or in sand or mud. The Spare Wheel obviates tire trouble. With clean and durable aluminum front floor, with every part protected against dirt, there can be no fear of soiling the most delicate gown. These features are essential in a car for use on country roads. Experience will show that they are not mere talking points.

A postal card will bring you our new booklet full of pictures, facts and figures

Thomas B. Jeffery & Company

Kenosha, Wisconsin

of white oleo with a capsule of color furnished gratis, works in the color in the sanctity of her kitchen and puts it on the table unannounced by name. Even some farmers who sell milk buy the imitation butter, but Agricola is not in that class.

I suppose a man with no bad habits would be a saint, but I am not sure that he would be an interesting companion. Even that very useful person, the genius, is abnormally developed in some line to the dwarfing of some other natural talent.

A friend sent me a Christmas present of a billbook. I at once made a search for bills to put into it, but being at the close of the Christmas purchasing had but one left, and that for \$1, and I owed seventy-five cents.

I paid the debt and shut up some hogs to fatten and hope to have use for that billbook later.

Sickness is generally preventable, therefore unnecessary, therefore a punishment. Colds do not bother those who live as they should, but of course children must live in close, ill-ventilated houses if their parents so order things. Germs are always attacking all of us, but generally we are in good enough condition to be immune.

Water to flush out the impurities of the system is better than a dose of pills. Drink it between meals and bid defiance to headaches and colds.

The canning factories have advanced the price of sweet corn to \$5.50

per ton for 1910. This is fifty cents higher than it was last year. The corn is weighed as it comes from the field, husks and all.

There are times when the rural mail carrier can not make his rounds, but he starts out and goes part way. This makes me glad that I live on the first portion of the route, and he always gets to my house if he gets anywhere.

I have not lost a hog by swine plague or hog cholera since the new method of making them immune has been published by the investigators, nor did I lose any before that great discovery.

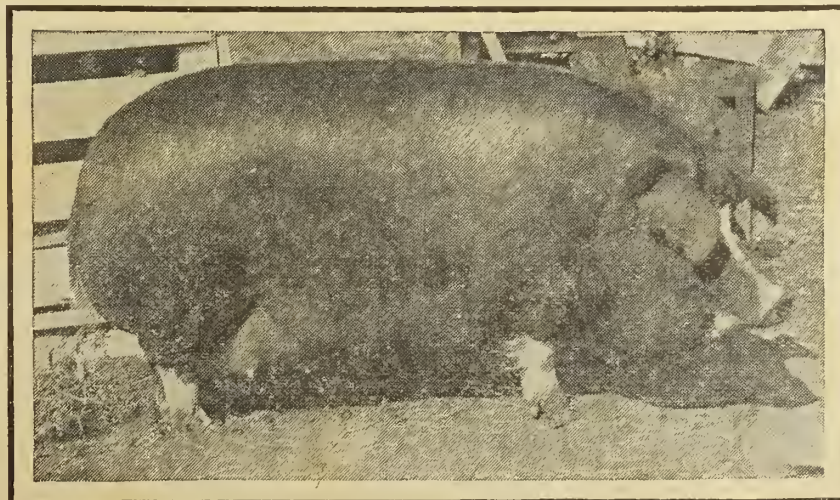
Co-operation among farmers has been more generally successful in butter making, cheese making, and marketing fruit than in other lines, so far as I am informed. I found one beet sugar factory in Michigan last winter, however, which was owned and run by farmers and was a marked success. But in mercantile business co-operative stores seem to find it hard sledding.

The back-to-the-land boom is close to being a land craze, and a craze of any kind has an unhealthy reaction.

THE ONLY WAY TO BUY A FARM.

Buying land for a home without knowing all about it is blind and foolish speculation. Settlers or homeseekers should go down and investigate conditions for themselves before buying. The Western Louisiana Settlement, at Pickering, now developing, situated along the Kansas City Southern Railway, has issued an illustrated booklet, free on application by any one interested in that coming country, having plenty of rainfall, with healthful and pleasant climate, where good farming and the best fruit and truck land in this country can be had for \$10 an acre, on easy terms. Address J. D. LaBrie, General Land Agent, 539 Keith & Perry Building, Kansas City, Mo.

Ask your neighbor to subscribe for The Homestead.



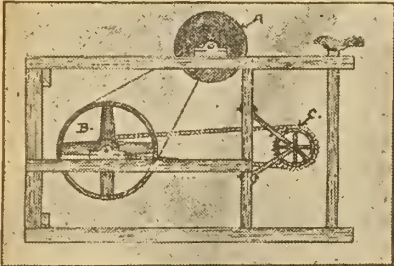
Proud Giantess, the grand champion Poland China sow of Nebraska and Kansas, 1909, to be sold safe in pig to the seventeen times first and champion, Grand Look, in Messrs. Thompson Bros.' sale, at Central City, Neb., January 24th. Their address is Indianola, Neb., and the catalog is now ready for distribution. See page 52.

HINTS-SUGGESTIONS-DEVICES
AND CONDENSED LETTERS FROM CORRESPONDENTS

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm or something that is connected with the home.

A Home-made Grinding Machine.

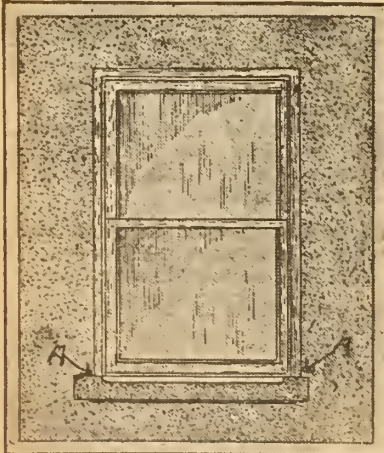
The grinding machine herewith illustrated was built by a sixteen-year-old Missouri farm boy, at a cost of \$5.75. The emery wheel and shaft with boxes, etc., was secured from a mail order house for \$5.50; the drive wheel B was bought from the old iron man for twenty-five cents and the belt, sprocket wheel and chain C, the wood work and seat were found on the farm. The frame work was built as illustrated and made fast to the side of his shop, close to one of the windows. The small sprocket wheel of his bicycle was made fast to the shaft, or mandrel, of wheel B and the large sprocket wheel was fastened in place with a part of the old bicycle frame



as shown. The drive wheel B has a three-inch face, is iron, and twenty-four inches in diameter, and the belt wheel on the grinder is three inches in diameter. The emery wheel is one and one-half inches thick and ten inches in diameter. For grinding disks and almost any farm tool that requires grinding, the machine is hard to beat. A similar machine in the same neighborhood cost \$22.50, and it is said that the home-made machine "beats it a forty-acre corn field." The wheel B may be made of wood, if an iron wheel cannot readily be secured; the mandrel, lock nuts, etc., however, should be purchased with the wheel and at this price, considering the saving on disk plows alone, the machine will soon pay for itself.

Window Sills.

That cement on the farm has proven of great benefit to the farmer no one will attempt to dispute. However, lack of experience brings from time to time complaints about cement, but usually investigation shows that the farmer or user of the cement is the one to blame. One of our subscribers writes that he lately saw a building built of cement and more than two-thirds of the cement door and window sills were cracked because they had been improperly placed in the wall. The workman in attempting to do the job a little too good had set the sills in a full bed of mortar their entire length. The result was that as soon as the weight of the wall above the window rested on the window frame it was, of course, resting on the outer ends of the sills, with no weight in



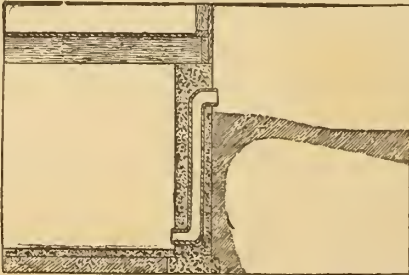
the center of the sill; the mortar in the center acted as a fulcrum, under a lever, and would break or crack any stone or cement sill, in fact, this method of setting sills has been known to crack cast iron sills. The proper way to set the sill is to bed about four



inches of either end in mortar below points AA and leave the center open as indicated by the heavy black line below the sill in the accompanying illustration. When the building has been completed these spaces may be filled in, as the work will by that time have settled sufficiently for the purpose. The stone or cement caps over the windows and doors should be set in the same manner and you will have no cracked and unsightly sills and cap stones.

A Cellar Ventilator.

One of our subscribers, who was a builder before moving to the farm, was lately asked to suggest a remedy for a cellar that was always damp, musty, and foul smelling. The walls were well built of concrete, plastered with Portland cement both inside and out, but



the cellar had always been damp and sweat stood on the walls, except in very dry weather. The cellar was ventilated as shown in the accompanying drawing, a section of the wall ten or twelve inches wide was removed, and the three-inch tiling shown fixed in place and the opening again filled in with concrete. Three of these tile ventilators were placed in the wall, one on the east, south and west. As the cellar had only one small window, and was 18x22 feet square, three windows were also placed in the same walls, using eighteen-inch by thirty-two-inch transoms for the sash. The tile opening on exterior of the cellar was six inches above grade, and the lower end about the same distance above the cellar floor. The work was done about September 20th, and at this date the cellar is giving perfect satisfaction. The windows were double and both sash swung on hinges; the ends of the tile were covered with fine brass screening to keep out insects and rodents. Galvanized iron caps were made to cover the outer ends of the tile, during cold and

windy weather, one or more of them were closed to keep out the cold, they were also covered during many of the hot summer days to keep out the heat, but were many times removed during the night, to cool the cellar by the cool night air. The cost of the work was slight and made a worthless cellar as good as the best.

Grange Organized at Iowa Agricultural College.

Monday, January 3, 1910, W. H. Saffner, of the National Grange of the Patrons of Husbandry, organized a subordinate grange at the agricultural department of the Iowa State College, with a large membership and the following officers duly elected: Master, Profs. P. G. Holden; overseer, Martin Mortensen; lecturer, A. H. Snyder; steward, E. N. Wentworth; assistant steward, H. H. Kildee; chaplain, G. R. Bliss; treasurer, L. C. Burnett; secretary, Laurenz Green; gatekeeper, J. F. Barker; cures, Mrs. S. A. Beech; pomona, Mrs. L. C. Burnett; flora, Mrs. C. F. Curtiss; lady assistant steward, Prof. Miss Neale E. Knowles.

Nearly all the agricultural colleges of the United States have good working granges, and are earnest in advocating the true principles of the organization.

FLOYD KNAPP'S SALE AVERAGES \$60.96.

The sale of Mr. Floyd Knapp, at Redfield, Iowa, on January 3d, brought out an excellent lot of breeders and farmers and the forty head averaged \$60.96. The top of the sale was Minnie, a Chief's Colonel Gilt, that went to Mr. Ernest Peddicord, Perry, Iowa, at \$205. Considering it was the first sale of the season it must be considered very successful. The offering was high class and was well received by the breeders. Col. F. F. Luther cried the sale. Below we give a list of those sold:

1	Sam Ellis, Redfield, Iowa.....	\$ 32
2	S. Spencer, Audubon, Iowa.....	55
3	Sexsmith, Strong and Madison, Orient, Iowa.....	54
4	James Williams, Marens, Iowa.....	50
5	C. W. Huff, Mondamin, Iowa.....	55
6	S. L. Hopper, Neola, Iowa.....	90
7	G. Linn, Spirit Lake, Iowa.....	26
8	A. P. Alsins, Boone, Iowa.....	58
9	Sam Stewart, Kennard, Neb.....	73
10	James Williams.....	95
11	Frank Butterfield, Ankeny, Iowa.....	48
12	H. E. Browning, Hersman, Ill.....	69
13	Ernest Peddicord, Perry, Iowa.....	205
14	A. McCurdy & Son, Alta, Iowa.....	36
15	R. J. Harding, Macedonia, Iowa.....	40
16	F. Bilderback, Earlham, Iowa.....	50
17	J. A. Shade, Kinslev, Iowa.....	50
18	W. R. Hairline, Blandinsville, Ill.....	55
19	W. M. Sells, Indianola, Iowa.....	100
20	Fd. Maulsby, Redfield, Iowa.....	60
21	T. J. Link, Winterset, Iowa.....	69
22	P. N. Poffe-greer, Redfield, Iowa.....	49
23	Theodore Schwerr, Earlring, Iowa.....	64
24	E. E. Henby, Carroll, Iowa.....	45

26	John Tupper, Woodbine, Iowa.....	50
27	H. R. Moore, Dexter, Iowa.....	62
28	F. J. Wilkins, Adel, Iowa.....	42
29	Claud Huffman, Scranton, Iowa.....	61
30	Geo. Everts, Audubon, Iowa.....	48
31	J. C. Danner, Yale, Iowa.....	50
32	List Bros., Granville, Iowa.....	85
33	James Williams.....	77
34	M. S. Moats & Son, Missouri Valley, Iowa.....	38
35	Carey & Geary, Noble, Okla.....	49
36	C. M. Poffenberger.....	55
37	Lee McLaughlin, Panora, Iowa.....	69
38	O. S. Larson, Logan, Iowa.....	49
39	Fred Poffenberger, Adel, Iowa.....	45

Extra sows not cataloged were taken as follows:

A. P. Alsins.....	66
Ira Sapp, Coon Rapids, Iowa.....	47
H. R. Moore, Dexter, Iowa.....	32
John Goddard, Harlan, Iowa.....	38

THE SMITH & BARNHART-THOMPSON SALE.

The public sale of Short-horn cattle held at West Liberty, Iowa, January 5th, by Messrs. Smith & Barnhart, of West Branch, Iowa, and S. H. Thompson's Sons, of Iowa City, Iowa, took place under the most discouraging circumstances. The snowstorm of the previous day so completely demoralized railroad transportation that very few buyers from a distance were able to be in attendance. For practically the same reasons, country roads being in a state of blockade, local buyers were notable because of their absence. However, Colonel Bellows put the sale through in good shape and succeeded in realizing an average of \$103.50 on thirty head. It was a very desirable consignment and, while under more favorable circumstances a higher range of prices would certainly have been maintained, the gentlemen who made the sale have reason to feel that, all things considered, they did fairly well. Below we give a list of those that sold for \$100 or over:

COWS.	
Reese Bud 3d, seven years, Royal Gloster, and b. c., Marcus Halter, Hills, Ia.....	\$110
Flora Archer 2d, three years, Bold Prince 2d, L. E. Leach, West Liberty, Iowa.....	125
Lady Lavender 6th, four years, Ringmaster, W. M. Smith & Son, West Branch, Iowa.....	110
Lady Lavender 7th, four years, Ringmaster, and b. c., J. D. Coldes, Berlin, Iowa.....	200
Princess Royal 18th, four years, Flora's King, and b. c., J. R. Alderman, West Branch, Iowa.....	220
Claudia 5th, six years, Prince Royal, R. Palmatier & Son, Greene, Iowa.....	107
Narcissus Goldie, three years, Golden Rule, J. Cardell, Walcott, Iowa.....	110
Violet Queen, seven years, Young Prince of Maine Valley, and b. c., Henry Koehler, Edgar, Neb.....	105
Alexandrina's Beauty 2d, eight years, Sunset, H. Peedy, Durant, Iowa.....	100
BULLS.	
Red Prince, three years, Violet King 2d, F. Burney, Buffalo, Iowa.....	225
Victor Baron, two years, Challenge Mysie, David Renoll.....	120
Remus 2d, two years, Challenge Mysie, J. W. Rickey, Winfield, Iowa.....	125
Advance, two years, Challenge Mysie, W. R. Johnston, Leclair, Iowa.....	125
Scottish Master two years, Scottish Fame, McLaughlin Bros., Wapello, Iowa.....	150
SUMMARY.	
9 bulls.....\$ 995; aver.....	\$110.55
21 females.....2,120; aver.....	100.95
30 head.....3,115; aver.....	103.50

No Danger From Fire When You Build With Concrete

A fire can wipe out in an hour what it may have taken a life-time to build.

Did you ever drop a lighted lantern in the barn or the wagon shed? You know how quickly the flames begin to dance about the floor and reach the wall. Every farmer has had this experience, and many have been sorry over the consequences.

You will never worry about fires if your barn or shed is built of concrete made with

ATLAS Portland Cement
Makes The Best CONCRETE

ATLAS is the best cement manufactured. It is made of genuine Portland Cement Rock. It contains no furnace slag.

ATLAS has the greatest sale because of its uniform quality and absolute purity. There is only one quality of ATLAS manufactured—the best that can be made and the same for everybody.

The United States Government ordered 4,500,000 barrels of ATLAS for the Panama Canal. You get the same quality as the Government if you order only one bag.

Our Free Cement Book

"Concrete Construction About the Home and on the Farm" illustrates hundreds of different ways of using concrete. It will show you how to make and place the concrete mixture in the best and most economical way. It gives complete instructions and illustrates them with photographs, diagrams and plans. Send for the book now.

Ask your dealer for ATLAS. If he cannot supply you, write to

The ATLAS Portland CEMENT Co.
Dept. 111 30 Broad St. New York

Daily Productive capacity over 50,000 barrels—the largest in the world



None Just as Good

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

INADEQUACY OF LAW.

When a purchaser of personal property is given time within which to pay the price he may get advantage of the seller by delaying the payment, or failing to pay at all, but the buyer never cheats the seller where a sale is made for cash and the price is paid.

It is nearly always the buyer of property who is made the victim of misrepresentation or other fraud in a contract.

But very few sellers of property communicate with this department concerning their rights, and the proper methods of enforcing them, but we are constantly receiving inquiries from people who have bought property and paid the price, or given their notes for it, and afterwards found out that they were cheated by false representations, or promises not complied with, on the part of the seller. For instance, the seller of a horse represents it to be sound, free from disease, and a good worker, or he warrants it to have these qualities, and the buyer after paying the price, takes the animal home and presently discovers that it has the heaves, or is spavined, or moon-eyed, or will not work. What is to be done in such a case? Well, theoretically, the buyer has a complete remedy at law—or rather two remedies, with the right to choose either one. If he acts promptly, he may at once rescind the contract by taking the horse back to the seller, and demanding the price he has paid, or the notes he has given—or he may keep the horse, and sue the seller for damages, and recover the difference in money between what the horse is actually worth, and what it would have been worth if it were as represented.

If the seller refuses to rescind the bargain, or pay damages, the buyer can enforce his remedy only by litigation, which will be expensive and

vexatious. It often happens where the plaintiff is successful, that such a lawsuit costs more to the plaintiff in attorney fees, expenses at court, trouble in procuring the attendance of witnesses, and loss of time, than the amount of the judgment obtained.

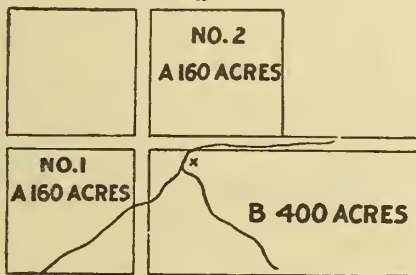
Another Case.—A farmer wants to buy pedigreed stock; the breeder assures him he has it for sale, and a contract is made which involves the giving of a pedigree certificate to the buyer. For some reason the certificate is not ready just then, and the seller promises to forward it in a few days. The farmer departs with his stock. The few days lengthen into many, and the farmer writes about the certificate, but gets no satisfaction, and sometimes no answer at all from the seller—or if a certificate is forwarded, it proves to be inadequate and not sufficient to enable the farmer to have his stock registered—what is to be done? The farmer has theoretically the same legal remedies outlined in the first case, and the same expense, trouble and vexation attend his steps, in case the seller refuses to do him justice.

Suppose in either case, that the seller has parted with the consideration he received for the property—has spent the money, or transferred the notes to an innocent party, and is insolvent, what then about a legal remedy? Clearly the buyer has none at all in any practical sense. Blood may not be gotten out of a turnip even by law. Justice is blind, and the law is impotent in such a case. They are to the buyer, twin nonentities—the unreal fantasies of an iridescent dream. The only real protection for him is to deal with responsible people, exercise great care and skill in the examination of property, and rigidly demand that the seller shall promptly deliver the goods, and all of them, and with all of these, he must still take some chances. There is never absolute safety for him.

LAW QUESTIONS CONSIDERED.

SURFACE WATER.

A Subscriber, Emmetsburg, Iowa.—A and B own adjoining farms, as shown in diagram. Surface water runs across A's No. 1 tract, then across the road and east over B's land about ten rods, where it formerly turned southeast over B's field, but B built



a levee or dike all around his farm to keep the water off, and this has the effect of turning the water at the point marked X, upon the road, so that when heavy rains come the water flows upon A's tract No. 2 and injures his crops. At first B turned the water inside his fence and later the ditch filled up, then B dug out into the road and turned the water there. A and B constructed a grade in the middle of the road three years ago, but it is not high enough, and the water runs over it when heavy rains come, and floods A's land as before. (1) Whose duty is it to look after the matter so far as it affects the public road? (2) Can A compel B to turn the water into its old course, south from the point marked X, or can A do it himself?

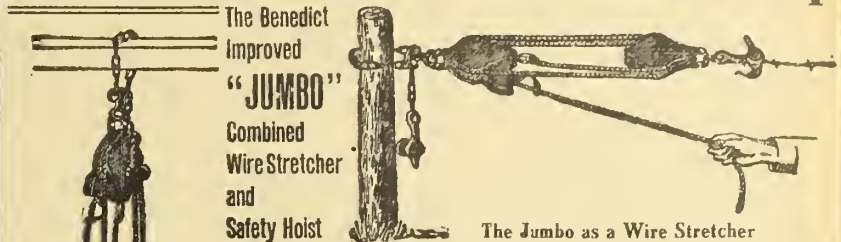
Answer.—(1) The road superintendent, or township trustees. (2) A cannot compel B to turn the surface water into its old course, neither can he lawfully do it himself.

PASTURING STOCK—LOSS.

A Subscriber, Minden, Neb.—A owns a large pasture and for certain compensation allowed B and C to put colts in it to pasture during the summer. B lost one of his colts and C also lost a colt during the summer. Who is liable for this loss under the laws of Nebraska?

Answer.—If A simply hired the pasture to B and C for so much per head of stock turned in, and made no special agreement to be responsible to them for the safety of the animals, then B and C must each bear the loss of his own colt, and A is not liable unless his actual negligence or carelessness caused the loss of the colts—in other words, in order to make A liable, the loss of the colts must be the result of his fault, and not accident, theft by somebody, or the colts getting out and running away. B and C took the risks of all these things, unless A agreed to care for the colts

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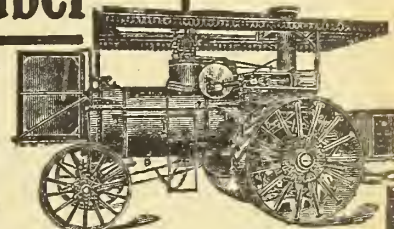


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cylinder—with its expansive force at its greatest. These two features alone make the New Huber Traction Engine the one you should investigate—the one you cannot afford to pass by if you are interested in traction engines. Let us send you the proof that the New Huber is the safest, most economical, most powerful, most durable on the market. Write to-day for our free book.

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and return them safely aside from furnishing pasture.

DOCTOR'S BILL.

A Subscriber, Denison, Iowa.—In the early part of last July a disease broke out in this vicinity and was said to be typhoid fever. On account of the number of people who were afflicted at about the same time, the doctor changed his house into a hospital, and he had as many as twelve patients there at the same time, and he had seven nurses employed. I was one of the doctor's patients for eight weeks. He charged me \$62.50 per week, or \$500 in all. I have neither money nor property of any kind. (1) Does the law allow a doctor to make such charges for treatment? (2) Can the doctor recover his charges against me?

Answer.—(1) The law does not specify what charges a doctor may make for treatment in any case. Where there is no agreement as to what charges shall be made the doctor may make any charge that is reasonable. What is a reasonable charge is a question of fact to be decided by a court or jury, where such a controversy gets into court. If a doctor sues, he must prove that his charge is reasonable. (2) If you have neither money nor property, the doctor might get a judgment against you, but he could not collect it till you acquired property.

TUBERCULIN TEST OF COWS.

A Subscriber, Newton, Iowa.—Does the law of Iowa require a dairyman who sells and delivers milk in a city of 4,000 people to have his cows tested for tuberculosis?

Answer.—It does not.

RAILROAD FENCES—TIMBER LAND.

A Subscriber, Nugent, Iowa.—(1) My farm is all fenced with a hog-tight fence except along the railroad right-of-way. I have requested the railroad company to make its fence hog tight, but it will not do so. How must I proceed to compel the company to make its fence hog tight? (2) Is the owner of land which is used exclusively for timber required to make half of the partition fence between such land and adjoining cultivated land hog tight, under the new fence law?

Answer.—(1) In such case, the company is guilty of a misdemeanor under the laws of Iowa, and may be fined for each offense not exceeding \$500. Every thirty days' continuance of neglect or refusal to make its fence hog tight, after notice in such a case as yours, constitutes a separate and distinct offense, and a fine may be

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This mill is strongly constructed, and takes less power than any other mill of its capacity. The lathe-centered burrs insure fine, even grinding. The new feed regulator gives perfect regulation on ear corn as well as small grain. The burrs may be changed in three minutes. This feature is worth the price of the mill to a good many.

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Try it. No money down. I trust you. Keep it if satisfied, if not, return it at my expense. I can't afford to have any dissatisfied customers. I want you to prove for yourself that it is the fastest grinding, easiest running and in every way the best mill made. Do this at my expense. I take all the risk. Write for my FREE catalog today.

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Put this wonderful invention, the Day-Bright Burner (formerly called Sun-Lamp Burner), on your own lamp and flood your home with white light 100 candle power strong—like sun light. You can match dress goods, see every stitch in sewing and the finest print.

Cuts Down Oil Bills Two-Thirds 6 TIMES BRIGHTER THAN ELECTRICITY

You are saving money by getting this Burner, not spending it. It pays for itself and saves money besides. Does away with odor and a lot of chimney washing. Burns any kind of kerosene coal oil—operates like any other lamp. Absolutely safe; fully guaranteed in every way; inexpensive. Write today for Free Illustrated Circulars and Remarkable Special Offer to people who write now.

Long winter nights are ahead, get better light—save money on oil. Write today for Special Offer.

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ing some children. Will C's children have any claim on the estate after B's death? (2) A and B were husband and wife. A died, leaving a will by which he devised his estate to B, but he never deeded it to B. Can B sell all or a part of said estate and give the purchaser a clear title to it?

Answer.—(1) C's children will get nothing by the will at B's death, because the legacy left to their mother lapsed at the mother's death—but when B dies, the estate reverts to the heirs of A and becomes, so to speak, the estate of A, and his heirs are entitled to it; therefore, C's children will as heirs of A inherit the property, but not because of the will. (2) The will of A if properly drawn and executed, transfers the property to B, just the same as a deed, but, of course, the will must be probated and A's estate settled and his debts paid, and then whatever remains belongs to B, and she can sell it and give the purchaser a clear title to it.

HUNTING LAW.

A Subscriber, Williams, Iowa.—(1) Does the law of Iowa require a person to have a license in order to trap animals on another man's premises if the owner consents to it? (2) Can a person lawfully dig skunk or other burrowing animals out of holes in another man's land with his consent, and without a hunting license? (3) Can a person lawfully hunt rabbits without a license?

Answer.—(1) The law of Iowa does not require a person to have a license unless he hunts with a gun, but it is against the law to kill, trap or ensnare beaver, mink, otter and muskrats on anybody's land between the 1st day of April and the 1st day of November, except when it is necessary to protect private or public property. (2) Yes, as to skunk—as to other burrowing animals, see answer to first question. (3) A person who desires to hunt rabbits with a gun, in Iowa, must have a license unless he is owner or renter of the land on which the hunting is done, or a child of such owner or renter.

BAD FENCES—INJURY TO CATTLE.

A Subscriber, Charter Oak, Iowa.—A and B own adjoining farms of 160 acres each, and there is a partition fence between them. A has kept his part of this fence in good condition, but B's part of the fence has not been kept in good repair and is in very bad condition. A's land along the entire fence is in pasture and B had corn growing on his side. A's cattle broke through B's part of the fence into B's corn field and ate so much corn that some of them died. (1) Is B liable for the loss of the cattle? (2) In case B's farm was occupied by a tenant, who is liable for the loss?

Answer.—(1) B is not liable for the loss of A's cattle. The law of Iowa provides a way in which A could have compelled B to keep his part of the partition fence in repair, but he neglected to do it, and took chances on his cattle being injured, with full knowledge of the situation. (2) It makes no difference in this case whether B occupied his farm, or a tenant occupied it.

TAX TITLE AND POSSESSION.

An Illinois Subscriber.—A man owned 100 acres of land in Illinois. He died, leaving a wife and children. The widow allowed the land to be sold for taxes and two of the boys bought it in, and afterwards sold it and deeded it to the purchaser. This was twenty years ago. The present owner holds the land by virtue of the conveyances mentioned. Is his title a good one?

Answer.—The title of the present owner is good. Possession of land by a person, who holds it by virtue of a tax title for more than seven years, and pays taxes on it, renders the title good, under the laws of Illinois.

PARTITION FENCE—NEBRASKA.

A Subscriber, Pierce, Neb.—F and J own adjoining farms, with a partition fence between them. F's part of the fence consists of two wires tightly strung and fastened to posts set two rods apart. The wires on J's part of the fence are loose and the posts are four rods apart, and one

corner of the fence is down altogether. F has taken his corn crop from his land and wants to pasture cattle on it. He asked J to fix his part of the fence, but J refuses to do so. (1) If F should turn his cattle on his ground, and they should break through J's part of the fence and do injury, would F be liable to J for damages? (2) If F puts a lawful fence on his part of the line, can he compel J to do likewise?

Answer.—(1) We think not. The law of Nebraska provides that if any domestic animal break into any enclosure, the person injured thereby shall recover the amount of damages done, if it shall appear that the fence through which said animal broke was a lawful fence. (2) F should choose a fence viewer, and notify J in writing to choose one, and if J fails for eight days to do so, F can choose, and the two fence viewers will meet and assign to each owner the portion of the fence he is to make and keep up—then if J refuses or fails to do so, F can do it at J's expense with costs.

BREACH OF CONTRACT.

A Subscriber, Ashton, Neb.—G rented a farm from B, and the contract provides that G was to put in sixty acres of winter wheat. Recently, B went on the land to inspect it, and found that G had only put in forty acres of winter wheat, and failed to put in the other twenty acres, which was oat ground that B particularly wanted sown to winter wheat this fall. What can B lawfully do in regard to the matter?

Answer.—B can recover damages from G for the latter's failure to comply with the contract, but the amount of damages which he would likely get, would hardly compensate him for his trouble and expense.

DIVORCE SUIT.

An Iowa Subscriber.—A husband and wife living in a certain county in Iowa have been separated from each other for two years. Can either of them go into another county of Iowa and get a divorce without residing there for a time? Neither of them has any property.

Answer.—In a divorce case, where the defendant resides in the state of Iowa, the suit must be brought in the county where he or she resides, and could not properly be brought in any other county.

HOSPITAL FOR INSANE.

A Subscriber, Pella, Iowa.—I have a relative in the Mt. Pleasant hospital for the insane. My husband has been appointed her guardian. (1) What is the law in regard to paying for the keeping of a patient? (2) Can a patient who is more than fifty-five years old be compelled to work all day? (3) How can a patient be taken out of the hospital by friends? (4) How can a person ascertain how patients are treated in the hospital?

Answer.—(1) The expense of keeping a patient in the hospital is first paid by the county from which the patient was sent; but the estate of the patient is liable therefor, and the board of supervisors may direct the county auditor to collect such expense from said estate. However, if the board of supervisors deem it to be a hardship, it may relieve the estate of such burden, and allow the county to bear it. (2) This matter is entirely controlled and regulated by the management of the institution, the law of the state containing no specific rules as to labor of patients. (3) By application of near relatives or friends of the patient to the county commissioners, who have power to make provisions for patient's care, and authorize her discharge from hospital. (4) Only from the regular visiting committee appointed by the governor, unless a physician or employee of the hospital will give the information.

Agricultural Convention Week in Nebraska.

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I challenge the world to produce an engine of equal merit to my **Caldwell Special** that can be bought for the price I offer you my engine. Give me a chance and I will prove to your satisfaction that the **Caldwell Special** is the engine for you to buy, because I can give you better value for your money than any one else. I sell my engine direct from factory and can save you the dealers', jobber's and catalogue house profit. If this money is as good to you as to the other fellow, write me and I will prove to you all that I say.

All I ask is for you to take the engine, try it free for sixty days on your own farm and if you are not fully satisfied with the engine and convinced that I have saved you money, return the engine to me and I will pay freight charges both ways and it will not cost you one single cent to secure the proof I offer.

I have satisfied and saved money for thousands of purchasers and know that I can satisfy and save you from \$25 to \$100 on the price of your engine.

All my engines are well built, finely finished and guaranteed against defective material for five years. My engine is so simple that you would not have the least difficulty in starting and successfully operating it at all times. I mean just exactly what I say and will put my engine up against any engine in the world.

If you are going to buy an engine I want to ask you to write for my free catalogue; compare my engine with any or all engines you know of, then put my prices along side those of others and see for yourself what I can save you.





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voting practically a whole week to a convention held in the interests of agriculture. This convention has been held in Lincoln, most of the meetings being carried on at the agricultural college. This year the convention will begin January 17th and will continue for five days. There is an organization in Nebraska for practically every breed of live stock, for crop improvement, as well as in the interest of horticulture and forestry. These various associations will hold special meetings during the week of the convention.

The programs, as they are made up from year to year, include speakers of national reputation. Indeed, the program is always made up with the idea in mind that the specialist must be given first place. Of course

each address or paper is discussed at length, and that is to be encouraged to the greatest possible extent, but as said before, convention week is a time when the specialist is virtually given the floor.

We hope that our readers who are in position to take a few days off for this convention will make it a point to attend. It affords the best opportunity in the whole year for one to meet his fellow workers, and the man who cannot take enough away to pay him for his time and trouble, saying nothing of the pleasant relationships that he establishes is certainly one who takes little to the meeting. The headquarters of the meeting this year, as usual, will be held at the agricultural college adjoining the city of Lincoln, and the dates, as before mentioned, are from January 17th until January 21st, inclusive.

Keep the cows from the storms of sleet and snow. A cow that must shiver in the corner of a barbed wire fence while the blizzard covers her body with snow and sleet, will not be very profitable as a milk producer. A good shelter the cow will enjoy, and she will turn her food into milk instead of an extra amount of heat for her body. This will be her reward to you for properly housing her from the cold and storms of winter.

FREED'S DUROC SALE.

The sixth annual sale of Mr. S. P. Freed, at Ames, Iowa, on January 7th, was a successful one. Forty-one head sold for \$1,851, an average of \$45.14. Colonels Luther and Reppert did the selling. A detailed report will appear in our next issue.



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I want to quote you a price that will cause you to sit right up and take notice on the grandest, best plow that ever turned a furrow. I can do it because we are the actual manufacturers, and sell direct to you. We don't have traveling salesmen—don't sell to dealers nor even to catalogue houses. You save those expenses and profits when you order direct from our factory. But that isn't all. You get a better plow. I say to you that the

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will prove easier for you to handle, easier on your horses and will do your work better than any plow you can buy, regardless of price. Tell you why the draft is lighter. It's positively the only plow that actually carries the beams on top of the frame. No pressure on bottom of furrow—no friction against bank of land, can't be for there's no land side. Don't need any. The plows ride on the wheels—wheels, frame and driver can't ride on the plows as they do sometimes with other makes. Besides, we have a Direct Beam Hitch, Single Ball and Horse Lift; and "Point First" action, which is easiest and quickest going into and coming out of the ground. I'll give you a chance to prove every one of these claims, and we'll pay the "damages"—freight both ways—if we "fall down" in a single assertion.

I want to tell you all about these plows and our other implements—Walking Plows, Cultivators, Tongueless Disc Harrows, Spike Tooth Harrows, Harrow Carts, Harrow Attachments for Plows, and Farm Gates—all sold at factory prices. Satisfaction guaranteed. Just write a postal for our complete catalog. It's free. Write to me, The Plow Man, with

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Lightest Draft Plow Made

Tenth Annual Short Course at Ames

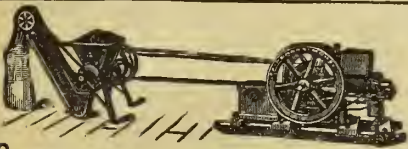
To the Editor of The Homestead:

More corn than has ever before been shown in Iowa at one time, the biggest exhibit of small grain ever brought together in the state, and an attendance fully equalling last year's high record—this is the record of the tenth annual short course at Ames. It was feared when the Iowa Corn Show was taken from Ames to Des Moines that the days of a big corn show at Ames were over. The contrary has been proven true. There are 841 entries in the corn classes, twice as many as at the Iowa Corn Show last year, and 100 more than at Des Moines this year. There is three times as much small grain as at Des Moines, and twice as much as in the Iowa department at Omaha. The quality is surprisingly good. The quality of corn is even better on an average than at the Iowa Corn Show. The half bushel of hard winter wheat shown by Henry George, of West Union, which won the championship

The Reason Why.

Thousands of the most progressive farmers in every part of the grain growing world are using Superior Drills. Why? Because you can sow any seed from the finest grass seeds to bush lima beans, you can sow any commercial fertilizer or granular lime and it will sow it right and in quantities desired. You can reseed worn-out and run-down pastures and meadows. The Superior puts the grass seed under the sod without turning it. It is strong, light draft, accurate and will do your work right. It sows evenly—every feed exactly the same amount. No skipping, no bunching or choking. The Superior Disc Drill will run and do good work wherever a disc harrow will run. Stalks, mud, pea vines, crab grass and any other trash has no terrors for the Superior. "The name tells a true story." Drilled oats and small grains will withstand the drouth much better than when broadcasted. You can get a good stand of clover if you sow it in the spring at the same time you do your oats or wheat, because the young clover plants get a good stalky growth at a very critical time—when they need sun and air.

The Superior Drill is manufactured in many styles and sizes by The American Seeding-Machine Co., Incorporated, Springfield, Ohio. Write them for a Superior catalog, read it carefully. Go to your nearest implement dealer, and ask him to show you a Superior, which is fully guaranteed to do your work.



Correct Grinding

of corn on cob is easily accomplished with the

Fairbanks-Morse Steel Feed Mill

The high price of feed makes it important that you do your feeding on a scientific basis. FAIRBANKS-MORSE FEED MILLS are best on account of their light draft, large capacity, strength and long life. They are designed for slow speed, which reduces friction and wear. A 2 H.-P. Jack-of-all-Trades Engine will run one of these mills, crushing ear corn and grinding it fine in one operation. Shelled corn or other small grains, separate or mixed, can be ground fine in one operation. Made in two sizes: Sacking Elevator can be used with either size. Moderate price; greatest value ever offered. Send for Fairbanks-Morse Feed Mill Catalog, No. LD603 which also shows corn shellers and Fodder cutter.

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Fairbanks Scales

When writing please mention this paper.

prize, was pronounced by the judges to be the best sample of wheat ever shown in Iowa. The sample of timothy seed shown by John Burgy, of South Amana, received the same verdict.

A gratifying feature of the shows is the large number of new exhibitors that have been brought out. Out of the 600 exhibitors in the corn show, probably not more than 100 have ever shown at a big show before.

The small grain show is under the auspices of the Iowa Small Grain Growers' Association, which was organized last year. The corn shows are being put on by the extension department. They are divided into two departments, the junior and the senior or Kellogg show. The Kellogg show is backed by W. K. Kellogg, of corn-flake fame, who donated \$1,000 to be given in premiums. In addition, Paul C. Taff, the manager of the senior show, has secured \$2,000 worth of live stock and machinery to be given as prizes. The prize list of the junior show, which is managed by Wm. McArthur, amounts to \$5,000. The entries are very evenly divided between these shows, there being 421 in the junior and 420 in the senior.

The interest created among the boys and girls of the state by the junior show is very great, and Professor Holden states that the extension department will hold such a show every year from now on. Early last spring the department secured the names of probable contestants, and sent them printed instructions for caring for their corn at frequent intervals all summer. Special classes at the short course have been arranged for the juniors, and many of them are in attendance.

The greatest interest in the animal husbandry department centered around the meat demonstration January 10th, which was conducted by "Uncle John" Gosling, of Kansas City. These annual meat demonstrations have always been one of the most interesting features of the short course. Added interest is given this year because of the fact that Roan Jim, the world's champion steer at the recent International, is included in the demonstration. In addition the following International prize winners are being used: Champion Shropshire wether lamb, two first-prize Berkshire pigs under two months and one under one year, and the first-prize junior yearling grade steer. A number of other animals representing the various market grades are also being used. The class worked on these animals on foot during the first week, so as to get familiar with their external appearance before they were slaughtered.

The college stock is supplemented for judging work by a car load of Short-horns from the herds of Carpenter & Ross, and by a car load of Burgess & Son's Percherons and Belgians.

In the small grain show Henry George, of West Union, won first on large white oats in northern section; Frank Kouba, of Blairtown, in central section; and Ed. R. Trites, of Oakville, in southern section. Sweepstakes went to Frank Kouba. He was also awarded grand championship in oats, winning the Milwaukee binder.

In large yellow oats Henry George won first in northern section, and J. H. Burgy, of South Amana, in central section. Sweepstakes went to Henry George.

In small white oats J. C. Mawdsley, of Burt, won first in northern section, J. W. Coverdale, of Elwood, in central section, and Ed. R. Trites in southern section. Coverdale was given sweepstakes, and championship for small oats.

C. A. Swindell won first in northern section on small yellow oats; E. B. Glenn, of Union, in central section, and J. M. Maxwell, of Crawfordville, in southern section. Glenn was given sweepstakes.

In hard winter wheat Henry George was given first in northern and central sections, and grand championship of all wheats. Ludwig Bengston, of Essex, was given first in southern section. John Junstice, of Ankeny, took first on red winter wheat for northern and central sections, and J. M. Maxwell first in southern section. Frank Harker, of Milford, took first for northern section on spring wheat, and

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REAL ESTATE.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$5 per acre; only one-fortieth cash, 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands, J. J. Snyder, School Land Locator, 505 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

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COLORADO—20,000 acres of horticultural, agricultural and grazing land in sunny San Juan section of Southwestern Colorado; some of the best irrigated lands in the West; prices to suit. Our motto: "Let us show you." Liberal commission paid to co-operative agents. The Boyle Realty Co., Durango, Colo.

FREE GOVERNMENT farms. Our official 112 page book "Vacant Government Land" describes every acre in every county in U. S. A million acres vacant. How to secure 160 acres by entry. 1909 diagrams. All about irrigated farms. Price 25c, postpaid. Webb Pub. Co., Station 4, St. Paul, Minn.

560 ACRES rolling to level farm land, well watered; ideal for stock; 2 miles to depot; \$5,500. 9 acres; improvements worth price asked; at depot; \$2,500. 80 acres; some fruits; fine springs; 1 mile to depot; \$1,200. Will take part pay in crops. West Florida Fruit Farm, Cottageville, Florida.

RIO GRANDE Valley farm; thirty three acres fruit, alfalfa; six room house; out buildings. Lots in Clint, center of rich community, twenty miles east of El Paso; two trunk lines; asphalt pipe to city; perpetual sunshine. C. M. McKinley & Co., Clint, Texas.

SELL your property for cash in less than 90 days; properties and business of all kinds sold quickly in all parts of the world. Send description today; we can save you time and money. The Real Estate Salesman, H. Funke Bldg., Lincoln, Nebraska.

WANTED—Farms and businesses. Don't pay commissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties free. American Investment Association, Minneapolis, Minn.

MUST SELL 160 acres 3 miles from town, 90 acres cultivated, ponds in pasture, 5 room house, barn for 12 horses, other buildings, 36 acres wheat, some alfalfa, lease land adjoining; \$45 acre, easy terms. Address John W. Webb, owner, Salina, Kansas.

206 ACRES—13 room slate roof house; 5 barns, silo; 4 1/2 miles from Owego. \$1,500 worth of timber; 40 cow stalls; running water in stables. \$6,000, 1/2 cash. This is a fine farm. Hall's Farm Agency, Owego, Tioga county, New York.

READ!—Snap in Oregon. 1,000 acres choice apple land at \$20. Will be worth \$75 soon. Farms 80 acres up, close to town and in our delicious climate. Do you want any? Write quickly. Wm. Ritchie Land Co., Albany, Oregon.

FOR SALE—North East Iowa farms, \$50 to \$85 per acre. 40 to 640 acres. Home seekers and investors, buy now while the price is low. Write for list, map. Wm. L. Maricic 2506 East Elm Street, Des Moines, Iowa.

CASH for your business or farm. No matter where located or what your property is worth, if you want to buy, sell or exchange, address Frank P. Cleveland, 1279 Adams Express Building, Chicago, Ill.

COFFEY COUNTY, Kansas, the land of corn, wheat, alfalfa, clover and bluegrass; good water and fine climate; fine farms at \$40 to \$65 per acre. Write for list. Stewart Land Co., Le Roy, Kansas.

FOR SALE—10,000 acres in grain belt of North Texas. Surrounding station on new railroad. Tracts to suit purchaser. Snoddy & Thompson, Wichita Falls, Texas.

FOR SALE—Southeastern Nebraska's richest corn, alfalfa and diversified farming lands. Free list and information. Nider & Henrichs, Fairbury, Neb.

SO E. Z. To get a nice farm home in the mild climate of Virginia. May we tell you how? Casselman & Co., Est. 20 years, Richmond, Virginia.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

FARMERS—write today for Idyls of Kansas and our new land list. Ford & Smetzel, Enterprise, Dickinson county, Kansas.

ALFALFA—HOGS—Dollars. Saline county bargains free, write today. Salina Investment Co., Salina, Kansas.

BARGAINS in farms and school leases; good soil, fine climate. Circular free. A. J. Haskins, Hunter, Oklahoma.

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WRITE for list of Kansas and Missouri farms for sale or exchange. W. H. Simonton, Fort Scott, Kan.

FOR EXCHANGES, quick sales and large list. address, Room 6, Continental Block, Omaha, Neb.

WRITE J. M. McCown, Emporia, Kansas, for new special bargain list of farms and ranches.

BOOK OF 500 farms and merchandise, trades free. Graham Brothers, El Dorado, Kansas.

240 ACRES, highly improved. Write owner, Wm. Kellerman, Westphalia, Kansas.

Fred McCulloch, of Hartwick, first for central section.

C. A. Swindell received first on barley for northern section, and Frank Kouba first for central section. Swindell was given first on speltz. J. H. Burgy took first on clover seed for northern and central sections, and J. M. Maxwell first for southern section. McArthur & Son, of Mason City, took first on timothy seed for northern section, and J. H. Burgy first for central section, and sweepstakes.

C. V. Gregory.

Ames, Iowa.

POULTRY.

FORTY VARIETIES of standard bred chickens, ducks, geese and turkeys; northern raised, hardy, and fine in plumage. Lowest prices on stock, eggs and incubators and brooders. Large illustrated catalog mailed for 4c. I. X. L. Poultry Yards, Fulda, Minnesota.

BARRED PLYMOUTH Rocks, 60 cockerels. Well shaped bodies, good size, heavy bone, fine plumage, lusty fellows. Mrs. W. H. Gaylord, Cylinder, Iowa.

SILVER LACED Wyandottes exclusively. Winners at several shows. Fine cockerels for sale at \$1.50 each; three, \$4.15; six, \$8. Circular free. John A. Johnson, Route 2, Pilot Mound, Iowa.

BLACK LANGSHAN cockerels and pullets, R. C. R. 1. Red cockerels, \$1.25 and \$2 each; big bone, good color. Mrs. H. Osterfoss, Hedrick, Iowa.

SINGLE COMB Buff Leghorn cockerels, golden buff, \$1 each. Rouen drakes. Arthur Worthington, R. 7, Manitowoc, Wisconsin.

BUFF ROCK cockerels and Pekin ducks of good size and color. Prices right. Mrs. John Martin, Mason City, Illinois.

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ROSE COMB Rhode Island cockerels; fine birds; \$1 each. Mrs. J. Holmgren, Rolfe, Iowa.

LARGE PEKIN ducks and Toulouse geese; prices reasonable. Frank Martin, Clare, Iowa.

30 BREEDS geese, ducks, chickens. Catalog free. Mink & Co., Mapleton, Minnesota.

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CHOICE Barred Rock cockerels. Jas. Farquhar, Sutherland, Iowa.

HELP WANTED.

WANTED immediately; railway mail clerks, custom house clerks. Many spring examinations. Salary \$600 to \$1,500. Steady work. Short hours. Annual vacations. Salary twice monthly. Thousands of appointments during 1910. City and country residents stand equal chance. Common school education sufficient. Political influence not needed. To advertise our schools we are preparing candidates free. Write immediately for schedule showing dates and places of the examinations. Franklin Institute, Dept. O-24, Rochester, New York.

WANTED—Railway mail clerks. Let us prepare you for spring examination; 100 free scholarships. President of school conducted government examinations. Catalog and free trial lesson. Ozment's College, Dept. 42 R, St. Louis, Missouri.

GOVERNMENT farmers wanted. Salary \$75 monthly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42 F, St. Louis, Missouri.

DOGS.

FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successful coon, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

THOROUGHbred coon, fox and wolf hounds, trained and untrained. These dogs are guaranteed. Address Morris Murphy, Beutonsport, Iowa.

FULL BLOOD fox-hound puppies 3 months old, for sale cheap. Chas. Walker, Gibson, Nebraska.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

POST CARDS.

POST CARDS—(To introduce) 20 gems of worth and beauty, 15 cents; 40 for 25c. Absolutely unlike all others. Get the best. Premium coupon and seed catalog free with every order. A. T. Cook, Hyde Park, New York.

TEMPERANCE post cards. 20 gems of worth and beauty, richly illustrated, for 15c., 40 for 25c., 100 for 60c. I give a premium coupon and seed catalog free with every order. A. T. Cook, Hyde Park, New York.

AGENTS WANTED.

WE PAY \$20 month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bigler Company, X425, Springfield, Illinois.

AGENTS—Handy Home Fastener. Every horse owner buys at sight. 200¢ profit. Thomas Mfg. Co., 59 Third St., Dayton, Ohio.

LIVE STOCK.

FOR SALE—A three year old Percheron stallion; registered, weight 1,900 lbs. J. Floyd McKinstry, Grant Park, Kankakee county, Ill.

FOR SALE—A registered yearling Red Polled bull. Write for prices and particulars. Jas. M. Osborn, Butler, Illinois.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

AUTOMOBILES.

REBUILT and second hand automobiles which have been taken in part payment for new Ramblers. Write for list, specifications, photographs. \$350 upwards. Rambler Garage Company of Milwaukee, Milwaukee, Wisconsin.

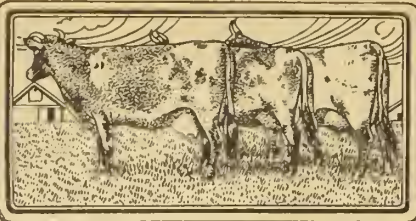
MISCELLANEOUS.

THE HOME Laundry Washer washes anything good and quick without labor. Sample only \$1. Guaranteed. Yarham Washing Machine Co., Grand Junction, Iowa.

FOR SALE—75 horse power Alax gasoline engine. Very little used; condition good as new. H. W. Anderson, 340 Bee Building, Omaha, Nebraska.

FROZEN FISH—Fresh frozen Lake Superior fish, direct from the fisheries to consumers. Write E. Kenner (Wholesale Fish), Duluth, Minnesota.

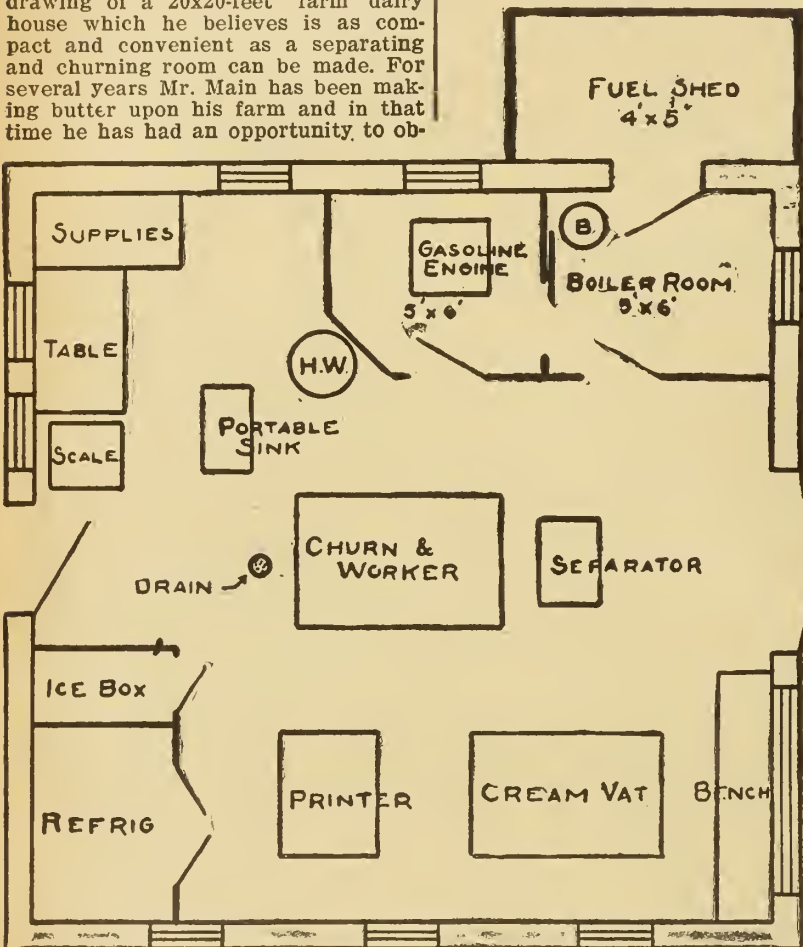
YOUR CHECK protected with a Handy Check Protector, postpaid 25 cents. H. S. Sales Company, 1615 Crocker Street, Des Moines, Iowa.



MODEL DAIRY HOUSES.

Mr. H. A. Main, of Jefferson county, Wis., has supplied the editor of this paper with the accompanying drawing of a 20x20-foot farm dairy house which he believes is as compact and convenient as a separating and churning room can be made. For several years Mr. Main has been making butter upon his farm and in that time he has had an opportunity to ob-

least ten feet from the floor. A good way to cover such a building is to have a four slant roof, coming to a point in the center. Of necessity, the

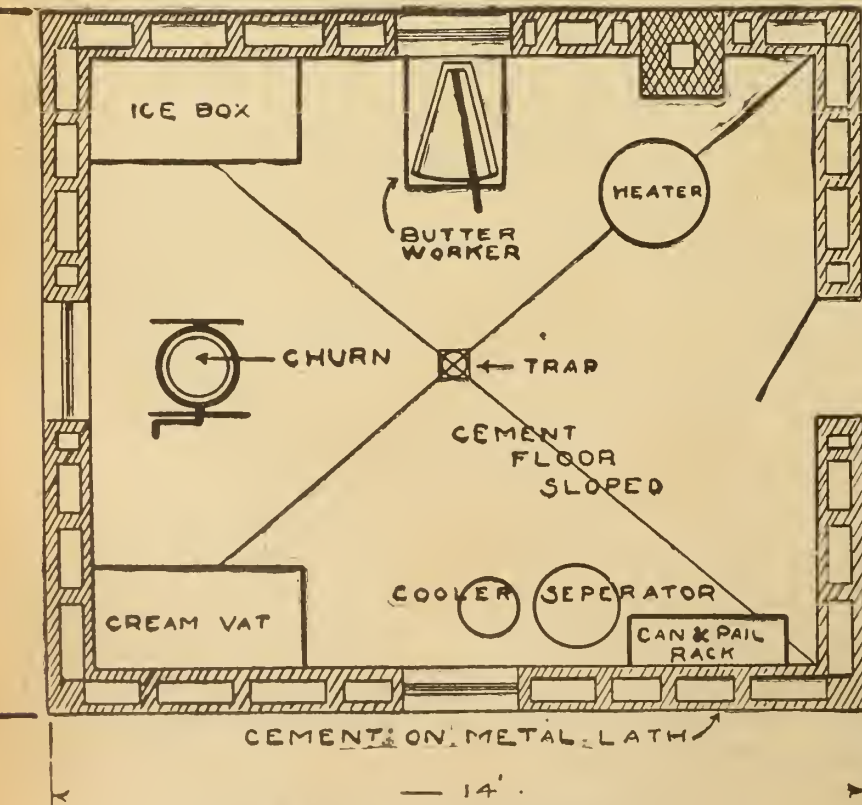


GROUND PLAN OF MR. MAIN'S DAIRY HOUSE.

serve wherein his farm dairy does not meet the desirable requirements. The plan which we are herewith presenting to our readers, therefore, embodies all of his present ideas of a model milk and butter room.

The building may be built of hollow concrete blocks or with four-inch stud-

building should be placed upon a firm foundation and the concrete floor should be sufficiently rigid and solid to carry the various machines in good manner. The entire floor should slant gradually toward the drain that all waste water may be carried off readily. With but one exception all windows are two feet two inches,



DEPARTMENT OF AGRICULTURE PLAN.

and one of paper upon the outside and one thickness of rough boards on the inside. This rough lumber is covered with wainscoting, the strips running up and down and painted a cream or light gray color. The ceiling should be tightly boarded and at

with two single pane sashes and all doors are two feet eight inches. The hot water can, which in the drawing is marked H. W., is connected by an overhead pipe with the boiler and by another with the water supply tank, which is elevated suffi-

Keep \$25 to \$50 in Your Own Pocket-That's as Near Home as You can Get

"I'll Treat You Square"



Friends—

SEND me your name—just tell me how many cows you milk, and I will write you my personal advice so you can try for 30 days free the best Galloway Bath-In-Oil Cream Separator to do your work—over 200 to 950 pounds capacity per hour, according to your needs.

Spend a cent now, this way, for a postal and you can just as easily save from \$25 to \$50 as not. Why pay more when for only \$33.50 and upward, I prepay the freight to you on 30 days' free trial—90 days' approval test, if you say so, and give you my 30 years' guarantee? You cannot get a better offer—to make you more money or save you more money on any separator made—and I will send you the best separator in the world today and you can prove it without any salesmen there to talk you over. Why not send Galloway

way your name today and let me write you personally and send you my splendid, big color-illustrated separator book right away.

Let Me Send You My GALLOWAY Bath-In-Oil SEPARATOR On My Real 30 Days' Free Trial

YOU can test the Galloway alongside of the highest-priced \$85 to \$110 separators sold by anybody today—to prove that my new Bath-In-Oil principle is the greatest invention in separators in history. Gears run in oil like a \$5,000.00 automobile. Dust-proof—no oil-hole. Impossible to heat or wear or put out of commission the splendid mechanism which gets you the biggest profits—all the cream—all the butter-fat. All gears enclosed—handsomest machine made (as you can tell below by the illustration); milk and cream spouts high for cans; lowest revolving milk tank, only 38 inches high; so no high lifting. The Galloway is the easiest to clean, with few parts, which come out easy and cannot get back out of place; easiest to run; high crank; low tank; no high-lifting and no "back-breaking" cranking. Gets the finest cream qualities—and all of it. No lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down. Skims closest, in any climate or season, no

matter whether your milk is warm or cold. This handsome machine, compact and substantial, with beautiful finish, cannot be beaten at any price. And you cannot get my new Bath-In-Oil principle on any other separator. Remember, that this is most important. It proves to you why I can afford to give you a 30 years' guarantee because I know that the parts cannot wear this out—get hot—clog—or clash and put the separator out of commission like others do where you have to be remembering to oil them all the time. The Galloway is the only separator into which you can pour oil at the top once a month from your oil jug, or can, and have it oil itself without danger of running dry or ruining it like others. This costs you nothing extra—is worth \$50.00 more than separators built the other way. Remember, that I am an actual manufacturer—not a supply house, catalog house, dealer or jobber. You get the lowest direct factory price from me every time. Write me today for my big separator catalog and let me quote you prices that will astonish you.

Wm. Galloway, President THE WILLIAM GALLOWAY COMPANY OF AMERICA 103 Galloway Station, Waterloo, Iowa

The illustration shows a large, vertical separator machine with a hand crank. It has a 'Revolving Milk Tank Only 38 inches High'. The machine is labeled 'No. 14' and 'Galloway'. To the right of the machine, a list of features is provided: 'All Capacities From 200 to 950 Pounds Per Hour', 'All Gears Encased and Run in Bath of Oil', 'Positive Insurance Against Wear', 'No Oil Cup or Oil Holes', 'No Danger From Getting Ought', 'Highest Crank', 'No Stooping', 'Closest Skimmer', 'Easiest to Clean', 'Simple and Sure', 'Big Book FREE', 'Prompt Shipments', '\$33.50', 'FREIGHT PREPAID', and 'and Upward'. A large, stylized 'OK' is written next to the machine.

ciently to carry the water anywhere in the room. The boiler should be filled by gravity, as an injector seldom works well on small, low-pressure boilers. Without steam pressure the filling can be easily done if supply can be connected to the boiler and placed high enough to force water into it.

In the cold storage room, if spring water is available, it can be run through a tank in which the milk and cream cans are kept. For a churn it is well to have the dairy sized combination churn and worker which, with the separator, can easily be belted by overhead line shafts to the engine. The cream vat should be equipped with water jacket and ice box on end and be connected by overhead steam pipe to boiler. The cream vat faucet should be placed on end nearest to the printer, so that cream when drawn will be handy to the churn.

The bench to the right of the cream vat is for separator parts, pails, cans, etc. This side of the building is really supposed to face south in order to provide a better sun bath for the milking utensils.

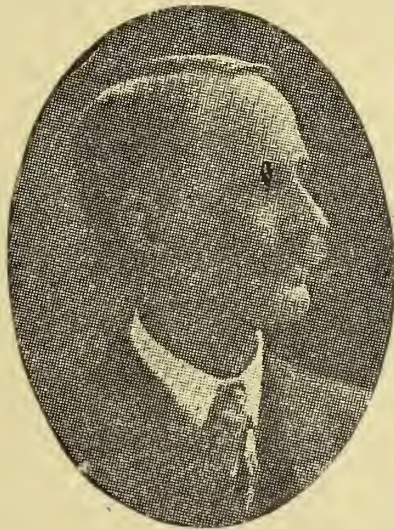
With Mr. Main's excellent plan we are also presenting one furnished us by the dairy division of the United

States Department of Agriculture. This design is intended to be particularly suited to a twenty-five or thirty-cow dairy. Both are exceptionally good plans.

Iowa's New Dairy Commissioner.

The announcement that Governor Carroll has appointed Mr. W. B. Barney, of Hampton, Iowa, as state dairy and food commissioner will be most favorably received by dairymen of Iowa. The present commissioner, Mr. H. R. Wright, was not a candidate to succeed himself, and in view of that the appointment of the governor is, The Homestead believes, a singularly fortunate one.

Mr. Barney has for many years been president of the State Dairymen's Association, and as such he has filled an important office, because that association has stood for many things that contributed to the development of dairying in Iowa. Mr. Barney has shown remarkable ability in the building up of a dairy herd and although he has not devoted his entire time to dairying, yet he has succeeded in bringing up from the right kind of a foundation one of the best Holstein herds



W. B. BARNEY,
Iowa's New Dairy Commissioner.

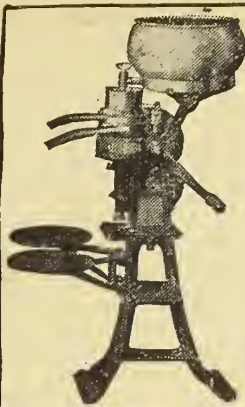
in the United States. As a showman he has few, if any, superiors, and his love for that work has always been based more on a desire to advance the dairy interest than to increase his own personal prestige. His work has resulted in greatly popularizing the noted breed with which he has so notably succeeded, and in this regard he has contributed much to the advancement of the dairy industry.

Mr. Barney takes up the work when it is in a well-organized condition, as the present incumbent of the office, Mr. Wright, has been a most zealous state officer during the last twelve years. As food commissioner there is a splendid work to be done, and The Homestead believes that Mr. Barney is the right man to enforce such sensible laws as are now on the statute books and to formulate new laws and new regulations to meet future needs.

Sixth Month of Iowa Cow Contest.

The report of the sixth month of the Iowa Cow Culture Club Contest shows that several changes have taken place during the past 30 days. It will be borne in mind that this is the report for the month of October. The three Guernsey cows owned by W. W. March still stand at the head of the list with phenomenal records. Dairy-maid of Pinehurst, who has been first ever since she was entered in the contest, made over 101 pounds of butter fat during the 30 days. She received, in addition to this, an allowance for age of over 25 pounds, giving her a total credit of 127 pounds. Jedetta of Pinehurst, an older cow, made a record of 101.46 pounds, but does not receive any allowance for age. Glencoe's Bopeep ranks third with a record of 88.14 pounds. Dairy-maid has produced in the five months since she entered the contest 439.12 pounds of butter fat; Jedetta of Pinehurst has made in the same length of time 418.46 pounds.

The third cow, Glencoe's Bopeep, has given 304.35 pounds of butter fat in three and a fraction months. She was entered in the contest considerably later than the other two cows.



JUST PLAIN COMMON SENSE

It doesn't take an expert mechanical engineer to recognize the superiority of the Improved 1910 De Laval Cream Separator. Plain common sense will do that. Consider each and every part of the machine, and not one single deceptive, freakish or non-sensical feature will be found.

At the top you find the De Laval seamless, sanitary, globe-shaped supply can—the most practical can ever designed for the purpose. Next comes the simple, compact, center-balanced De Laval separating bowl, extremely convenient to handle, and washed as easy as a tea-cup. Inside the bowl you see the patented De Laval "Split-Wing-Disc" system of construction, which is common sense itself and today generally recognized as the only correct method of bowl construction. Next comes the bowl spindle, entirely separate and detached from the bowl, but which may be quickly and easily taken from the machine if desired. Supporting the bowl spindle top and bottom are the special De Laval bearings, ideally efficient and simple. Next you see the remarkably simple De Laval gearing, consisting of only three wheels, which are so strong and so nicely adjusted that they are practically everlasting under daily use. You find no ball bearings or complicated nests of delicate gear wheels, and the whole machine may be completely unassembled by anyone within five minutes' time.

The frame of the De Laval is remarkably artistic and convenient. It has adjustable shelves for the cream and skim milk receptacles and a special drip shelf is a part of the frame, which prevents drippings of oil or milk from running to the floor. The base of the machine is open, so that the floor beneath may be kept clean. Inside and out the 1910 De Laval machine is the result of merely plain, common, mechanical sense.

The De Laval catalog tells the whole story. Ask for a copy.

THE DE LAVAL SEPARATOR CO.
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YOU WON'T FIND A DEFECTIVE PLANK

in the Minneapolis Panel Silo—it's all No. 1 lumber from the cap to the foundation. Everybody knows what this means—LIFE-LONG DURABILITY. And note this: Because of our unique construction this good lumber silo costs no more than you will have to pay for the old-style stave silo, which must be made from poor stock to get it anywhere within reach of the average farmer's pocketbook. We use PANELS 2 feet long, tongued and grooved, dovetailed at the ends. All uprights are ONE PIECE. Every bad spot is cut out on the

Minneapolis Panel Shrinkproof SILO

We can't begin to tell you all its good points or what they all mean to a farmer and stockman in this small space—hnt take our word for it, everyone of them means a handful of dollars to you. So in your own interest write us NOW before you forget, and ask us to send you our book on Silos, Silage and Economical Feeding. Don't think of deciding on ANY silo until you have read this book and done some thinking about what our exclusive points of merit mean to you.

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Note—We are distributors in the Northwest for the celebrated Climax Ensilage Cutter. (3)

Six Thousand Indiana Silos IN USE ON THE Finest Farms in America

Is absolute proof that "Indiana Silos are the best in the World."
Ask Any Man Who Uses One!
An Indiana Silo saves half your feed, it pays for itself in one season. High priced feed makes it imperative that you investigate and decide upon your silo now.
The best materials make Indiana Silos by far the best. We own saw mills and timber lands, and thereby get stock selected, seasoned and prepared exclusively for our silos.

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Write for THE SILO ADVOCATE Today AND OUR SILO BOOK FREE

These contain much valuable information you should have. Address all communications to the General Offices of the INDIANA SILO CO., 321 Union Building, Anderson, Indiana. We are the largest Silo Manufacturers in the World

YOU NEED THIS FREE SILO BOOK

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LANSING SILOS are far the best. That the one you choose from our 200 styles and sizes will make the most profits. Made of good, old-fashioned, soft-cork pine, or choice of 6 other woods. Have strongest All-Steel Hoops with Draw Lugs—and patented Continuous Doorway, with Ladder Front.
Write Now for best book ever written on silos. Read what Experiment Stations say; also evidence from our customers that the Lansing pays best.
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EARLY BUYERS SAVE MONEY
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HOW? KALAMAZOO TANK & SILO CO. MICHIGAN

THE VICTORY MILL costs no more makes. Does more and better work than them all. May we send Free Circulars? No obligation to buy. Address, **SPERRY MFG. CO.,** 105 Vine Street, OWATONNA, MINN.

\$15.95 AND UPWARD

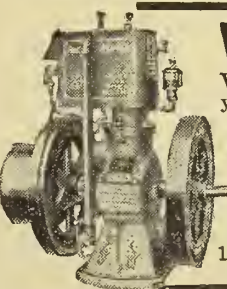
THIS OFFER IS NO CATCH.
It is a solid, fait and square proposition to furnish a brand new, well made and well finished cream separator complete, subject to a long trial and fully guaranteed, for \$15.95. It is different from anything that has ever before been offered. Skims 1 quart of milk a minute, hot or cold, makes thick or thin cream and does it just as well as any higher priced machine. Any boy or girl can run it sitting down. The crank is only 5 inches long. Just think of that! The bowl is a sanitary marvel; easily cleaned and embodies all our latest improvements. Gears run in anti-friction bearings and thoroughly protected. Before you decide on a cream separator of any capacity whatever, obtain our \$15.95 proposition.



THE LOW DOWN AMERICAN SEPARATOR EXCELS ANY SEPARATOR IN THE WORLD

OUR LIBERAL TRIAL ENABLES YOU TO DEMONSTRATE THIS. While our prices for all capacities are astonishingly low, the quality is high. Our machines are up to date, well built and handsomely finished. Run easier, skim closer, have a simpler bowl with fewer parts than any other cream separator. Thousands of machines in use giving splendid satisfaction. Write for our 1910 catalog. We will send it free, postpaid. It is richly illustrated, shows the machine in use giving all about the American Separator. Our surprisingly liberal long time trial proposition, generous terms of purchase and the low prices quoted will astonish you. We are the oldest exclusive manufacturers of hand separators in America and the first to sell direct to the user. We cannot afford to sell an article that is not absolutely first class. You save agent's, dealer's and even catalog house's profits by dealing with us and at the same time obtain the finest and highest quality machine on the market. Our own (manufacturer's) guarantee protects you on every American Separator. We ship immediately. Western orders filled from Western points. Write us and get our great offer and handsome free catalog. ADDRESS,

AMERICAN SEPARATOR CO., Box 1073, BAINBRIDGE, N.Y.



WATCH YOUR NEIGHBOR

Who owns a **WATER-COOLED** engine and you **WILL NOT** want one; then investigate

The "New-Way" AIR-COOLED

We will refer you to plenty of people who have used both kinds and would not bother with the old style water-cooled again at any price. Write for catalog No. S.

15 Ash Street **The "New-Way" Motor Company** LANSING, MICHIGAN, U.S.A.



FOR ALL WORK

These three great dairy producers have yielded in the past five months 1,161.94 pounds of butter fat. This is more than the average Iowa herd of 15 cows would have yielded in the same length of time.

The cow taking fourth place in the contest is Vale Ormsby Aaggie, owned by R. B. Young, of Buffalo Center, Iowa. Mr. Young will be remembered as the man who brought the world-famous bull, Paul Beets De Kol, to Iowa a few years ago. He has, furthermore, established for himself a unique record in that he is the first breeder of Holstein-Friesian cattle who has followed the plan of testing every cow in his herd, in order to give them official yearly records. Mr. Young has been putting all of his cows in the A. R. O. class with 12 months' records, instead of 7 and 30-day rec-

ords. His winning cow this month produced 1,678.5 pounds of milk and 55.44 pounds of butter fat. The allowance for her age brought the total credit up to over 67 pounds. This is a remarkable record for a heifer.

The fifth cow is Minnehaha Gerben De Kol, a registered Holstein belonging to C. A. Nelson, of Waverly, Iowa. Her record is 1,606.9 pounds of milk and 49.79 pounds of butter fat, with a total credit of 62.24. Mr. Nelson's herd contains the four cows that yielded him, during the year 1908, \$600 for milk alone. The output was delivered to a condensary at the same price that was paid for milk all through Bremer county; thus, in making this remarkable record, the cows had no advantage over other cows throughout the state. Mr. Nelson's herd, furthermore, gives a remarkable

MORE CORN WITH LESS WORK

You save one cultivation and the trouble of replanting missing hills if you use the **Hayes Four Wheel Planter**. You save the time wasted trying to make an old machine work or to fix a complicated new one; save work for yourself and your horses and prevent loss from washouts. In fact the Hayes Planter saves you about 40% of the trouble connected with planting.

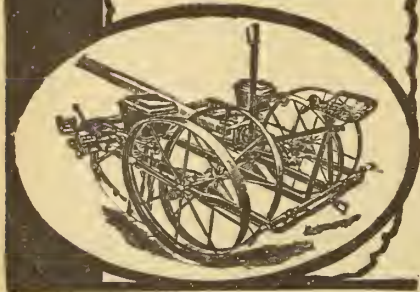
The wheels are set at angles. They imbed the seed from the side, leaving soil loose on top for shoots to push through. *Guaranteed not to clog in mud nor "string" or scatter the corn.*

Special improved drop and lower valve insure positive planting and accurate checking wherever a team can travel, whether you drive fast or slow.

Plants all seeds at exactly same depth. All corn npt at same time. Cultivation one to three days earlier. The construction is simple. It never gets out of fix.

Powerful foot lift aids the hand lever and makes handling easy. The machine is shortest coupled on the market, lightest draft and can be turned in shortest space. Write for free booklet "F of planter facts. Good reading whether you have a planter or not.

Hayes Pump & Planter Co.
Galva, Ill.



\$8.50 Lowest Price
On Best Spreader

New F.O.B. Factory Price **Ever Made. Complete ALREADY To Hitch To.**

Largest Capacity
Saves Wagon Gas Trucks and All

Get New Catalog and Special Offer Today

The Grinnell is sold with or without the trucks on 90 days free trial, direct from factory to you. Will save you \$25 to \$90 on your spreader investment. The greatest machine ever invented in the manure spreader line. You want to know more about it. Write for catalog and special offer without fail today. Address

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POINTER**

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Don't compromise in the selection of your seed. That doesn't pay. Get the best cleaner, separator and grader you can find. It doesn't pay to compromise in the selection of your fanning mill either. To be dead sure, you get the very best uniform, plump, healthy seed. Get the

NEW SUPERIOR FANNING MILL

There is a dealer in your town, who sells it and he will be glad to show you how it works. If there isn't write us, and we will send you one without cost until you are satisfied it does all we claim. Don't buy a Fanning Mill Until You Have Seen a New Superior. Call on the dealer or write us for particulars. **J. L. OWENS CO.,**
613 Superior St., Minneapolis, Minn.

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Hundreds of positions open for steam railway firemen and brakemen, and electric railway motormen and conductors. Experience unnecessary. Write immediately for full particulars stating position desired.

RAILWAY ASSOCIATION,
267 Reliance Bldg., Kansas City, Mo.

illustration of what can be done by a practical farmer in the development of a real milk-producing herd of cows.

Creeta H. 2d Spot 2d ranked sixth in the contest with a milk production of 1,481.5 pounds and a butter fat production of 57.43 pounds. Her total credit is 62.03 pounds. She is a young Holstein-Friesian owned by J. C. Guthrie, of Shenandoah. Mr. Guthrie will be remembered as the young man who had charge of the cow-testing work organized by Kimball's Dairy Farmer in Black Hawk county, Iowa, three years ago. At the present time he has a very fine herd of cows and is producing certified milk and cream for the retail trade in Omaha. The Alba Dairy, of which Mr. Guthrie is proprietor, is a thoroughly up-to-date, modern plant.

The next place is taken by Roxey Success De Kol, a Holstein-Friesian owned by T. J. Julian, of Algona. Her butter fat yield was 61.14 pounds. Mr. Julian is well known in all of the dairy circles of Iowa. He has established a reputation for himself both as a breeder and dairyman.

Home Cheese Making.

To the Editor of The Homestead:

Any person having one or more cows can make cheese at home with the utensils found in every household. The rennet tablets are the only essential thing to buy, which can be secured of druggists or dealers in dairy supplies. Some makers color their cheese, but I find that when it is aged properly it is quite satisfactory for home use without coloring. It is much the same as coloring butter and depends upon one's opinions and tastes.

To make the cheese, take of night's and morning's milk sixteen or eighteen quarts, put it in a wash boiler or a large dish pan and set it on the back of the stove without much fire. Heat to about eighty-five degrees. Then take one rennet tablet dissolved in a glass of cold water and add to the milk, stirring slowly. Leave it alone until it gets thick and ready to cut.

For cutting use a common butcher knife, cutting both ways so as to make blocks about one-half inch square. It is then ready to be cooked. Remove two to three quarts of whey, heat it to 100 degrees and pour over the curd. Cook it one and one-half or two hours. When pressed in the hand, it should feel velvety and elastic and when bit in two should squeak against the teeth. Then remove the curd from the whey slowly.

In about half an hour salt with about one ounce to twenty pounds of milk to suit the taste. Do not let the curd mat together until it has been salted. For pressing, a half peck measure with small holes bored in the sides will do. Place a cheese cloth in this around the sides and on the top after the curds are put in. Then place this where you can put a long pole over it with a weight on the end to act as a lever in pressing.

Leave the weight on about twenty-four hours when the cheese can be taken out and placed in a room of sixty degrees temperature for curing. Rub a little butter on the outside of it each day to keep it from molding. It takes about five weeks for a five-pound cheese to cure.

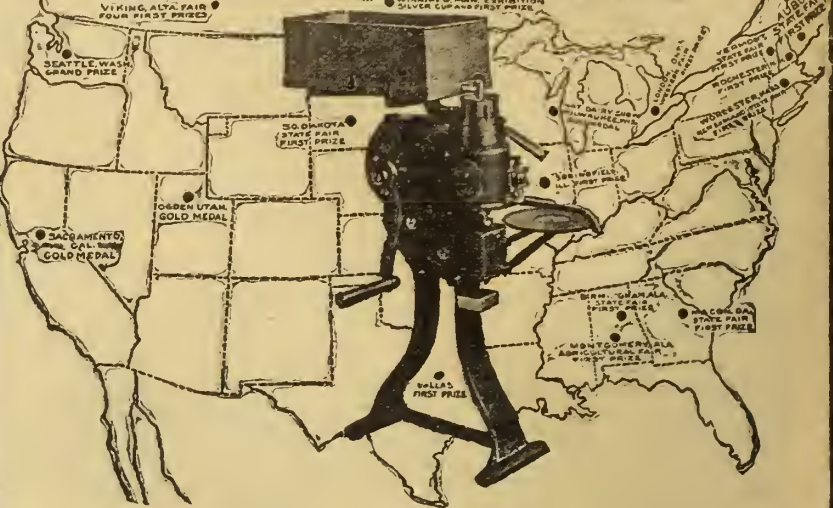
Illinois. W. H. Underwood.

Methods of Detecting Tuberculosis.

Tuberculosis among cattle and swine has increased rapidly during the last few years. It is becoming a generally recognized fact that something must be done to check the spread of this malady. Before anything definite can be done in the way of preventive measures, some sure method of detecting the disease must be available. The tuberculin test is the only means that has been discovered so far by which the disease can be detected with certainty in a live animal. This test has been much abused and misrepresented. In Bulletin No. 107 of the Iowa Experiment Station, Dr. Stange shows the fallacy of the stand taken by those who oppose the test, and proves that it is reliable when properly administered by citing a long list of experiments which the veterinary section has constructed along this line.

The latter part of the bulletin gives the results that have been ob-

From COAST to COAST and BAY to GULF



United States Separators and their Products Win All Important Awards in 1909

IN keeping with its usual successes and accomplishments, the year 1909 has been another record-breaker for the United States Cream Separator. The few awards we mention are far from all. These are a few of the more important ones.

THE GRAND PRIZE (Highest Award) on Separators at the **ALASKA-YUKON-PACIFIC EXPOSITION**, Seattle, awarded the U. S. This was positively the highest award received by any separator.

GOLD MEDAL (Highest Award) on Separators at the **Intermountain Four State Fair**, Ogden, Utah, awarded the U. S.

Butter made from U. S. Cream by Jas. H. Toomer, Morgan, Utah, also won **First Prize** and **Gold Medal** at this Fair.

GOLD MEDAL (Highest Award) on Separators at the **Sacramento, Cal., State Fair**, was awarded the U. S. Separator.

FIRST PRIZE (Highest Award) on Separators at the **Texas State Fair**, Dallas, awarded the U. S. Separator.

FIRST PRIZE (Highest Award) on Separators at the **State Fair**, Birmingham, Alabama, awarded the U. S.

FIRST PRIZE, also **STANDARD SILVER CUP** (valued at \$100.00) was won by Mrs. Alex. Simpson, of Atwood, Ontario, at the **Winnipeg Industrial Exposition**. Mrs. Simpson has used a U. S. Separator for years, and has always been a prize winner on butter.

FIRST PRIZES (Highest Awards) at the great **New England Fair**, Worcester, Mass., were awarded to Harry C. Shepard, of Sturbridge, Mass., on Dairy Butter and Cloverdale Creamery, Tunbridge, Vt., on Creamery Butter. Both U. S. users.

THE GOLD MEDAL (Highest Award) at the **NATIONAL DAIRY SHOW**, recently held at Milwaukee, Wis., was awarded to J. Gilbert Hickcox, of Whitefish Bay, Wis., on market cream obtained by the U. S.

FIRST PRIZE (Highest Award) at the **Illinois State Fair**, Springfield, on Dairy Print Butter, was won by Robert Moren, Morrison, Ill., a user of the U. S.

FIRST PRIZE (Highest Award) at the **Vermont State Fair**, White River Junction, was awarded L. R. Dana, Pomfret, Vt., on Dairy Butter. Mr. Dana also uses a U. S. Separator.

FIRST PRIZE (Highest Award) at the **Maine State Fair**, on Dairy Tub Butter was won by Mrs. L. S. Brimmer, of Tilden, Me., user of a U. S. Separator.

FIRST PRIZE (Highest Award) **South Dakota State Fair**, on Dairy Butter won by Mrs. M. F. Andrews, of Huron a U. S. user.

FIRST PRIZE (Highest Award) on **Home Dairy Butter**, **Western Fair**, London, Ontario, awarded Mrs. Alex. Simpson, Atwood, Ont., a U. S. user.

FOUR FIRST PRIZES, **Viking Agricultural Fair**, Viking, Alberta, Canada, Oct. 5th, 1909, Dairy Butter, Mrs. S. Stenberg swept all four First Prizes. Another **Great Victory** for the United States.

FIRST PRIZE, **Georgia State Fair**, Macon, Ga., October 27th to November 6th, 1909, **First Premium** on both **Separator and Exhibit**, awarded to **United States Separator**.

Don't let the hypnotic statements of unscrupulous advertisers, claiming the earth, with no records to back their claims, influence you in the least.

If you keep two or more cows and handle their milk by any other means than with the U. S. Separator, we can show you the way to a greater profit. Ask for Catalogue No. 81 and we will attend to the rest.

Remember, you can try a U. S. Separator before you pay one cent. This does not mean the bogus free trial some advertisers offer, who require the cash deposited in the bank before they ship the goods. Agents in every dairy community will give **absolutely a free test**, and in case you buy, favorable terms. Could anything be more fair?

VERMONT FARM MACHINE CO.

INCORPORATED 1873

BELLOWS FALLS, VT., U. S. A.

tained in quarantining affected animals and using them for breeding purposes. Condensed reports of experiments that have been conducted by the animal husbandry section to determine whether or not tuberculosis can be transmitted from cattle to hogs are also given. This bulletin is a mine of information to stockmen and others interested in the tuberculo-

sis problem. Copies can be obtained free as long as the supply lasts. Address Chas. F. Curtiss, Director Iowa Experiment Station, Ames, Iowa.

The farmer who marketed his corn in the hog yard and who is now marketing the hogs can look any man in the face and tell him to go to any old place.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

KEEPING POULTRY FOR PROFIT.

On many of our farms chickens "just grow." The farm flock is given no particular attention other than to open the coop door in the morning, throw in a shovel of feed and a fork of litter and in the evening to close and padlock the door against the night agents. Here, then, is another place where the law of the survival of the fittest is allowed to work out to final conclusions. That such management does not return the greatest profits goes unsaid.

Prof. J. G. Halpin, who has lately been placed in charge of the newly formed department of poultry breeding in the Wisconsin College of Agriculture, recently outlined a system of management which he has reason to believe will be more productive of good results. A paragraph from his paper in the college publication follows:

As to feeding the flock, probably no better directions can be given than to carry out the analogy of summer conditions. Thus in winter we should try to feed the flocks so that they will get very much the same food as they would on a good range in summer. We will, therefore, under winter conditions have to supply meat in some form to take the place of the insect life found about the place in the spring and summer. Again, we must furnish green food in some form, as clover chaff from the barn floor, mangels, cabbages, etc. Then, too, we must feed some of the grains that are raised upon the farm to complete the ration. In summer the flock rises early in the morning and under ideal conditions feeds practically all day long, gathering a little here and there as they go back and forth over the fields or yards. In winter the days are much shorter and thus the time for acquiring feed is much shortened, as a consequence. We should, therefore, use a method of feeding that will coax the birds from the roosts just as early as possible in the morning, keep them exercising and eating just as much as possible during the day, and then send them to roost at night with their crops full of feed to be ground out during the night. Apply an ordinary amount of common sense to the matter of handling poultry, remembering that they, like other animals, must have certain essentials, such as fresh air, exercise, good, fresh, clean water, etc. Learn to give to each essential its due and you will have an excellent start in progressive poultry culture.

Some are inclined to think breed of utmost importance and to attribute success or failure to that one source. This, however, is a very superficial view, for we find men who are succeeding and others who are making abject failures with the same breed.

The secret of successful poultry raising seems to be very largely, if not alone, in management. The man who can and will supply his flock with as near summer conditions as is possible the year round will meet with success and contrary to a somewhat common opinion success in poultry breeding and feeding is no mean accomplishment.

Earth Floor for Chicks.

To the Editor of The Homestead:

With considerable interest I have just read, for a second time, the article furnished by W. D. Neale, entitled "Saving Chicks by Millions," setting forth the wonderful discovery of Mr. Ernest Kellerstrass, the millionaire poultryman of Missouri, in regard to the terrible mortality among young chicks. I do not wish to criticize this article as a whole—in fact, I wish to clinch in stronger terms many things Mr. Kellerstrass has set forth.

Two points in particular I wish to endorse is the fact that young chicks should not be compelled to live on a board floor and I think that brooder manufacturers are committing a wrong in sending out brooders constructed in such a way that they are confined on this floor. My argument has always been (and is backed up with twenty-three years' good experience) that a brooder should be so constructed that the chicks have access to an outside run at all times, be it ever so cold a night or day. Many brooders are constructed with a closed-in pen outside the house with top and all on, claiming it is economy in fuel. Yes, it is economy, but very poor economy at that, for it is at the expense of the life of many a chick, and right there is where I wish to bump in pretty hard, not at the writings of Mr. Kellerstrass, but to bring to bear with all my might that a little chick must have air. Warmth alone will not successfully brood a chick. They must have pure air. In artificial practice the natural practice must be imitated just as much as possible. Just put an old hen with a brood of chicks in one of the boxed-in houses and see how many chicks she will raise, the while intestinal trouble will show itself just the same. Now as to the use of earth on a brooder floor, this cannot be spoken of in too high a term, but to say it is a discovery, I will not consent to it. Why, the veteran poultryman, James Rankin, southeastern Massachusetts, outlined to me the benefits derived from that practice nearly twenty-five years ago, and it has been my practice ever since; and I have proclaimed it far and wide in my lectures at our Wisconsin farmers' institutes for the past twelve years. Anyone who has followed my writings will note I have always condemned the use of anything but an earth floor for poultry, not only for the brooding, but for the adult fowls as well. It is a natural condition that they should not be deprived of and you will surely suffer a loss sooner or later if they are deprived of it. Immediately under the house I try to have clover chaff if I can get it, but outside the house on all sides I want free access to fresh earth. Our pens

Friend: This is My Double - 10-Year Guarantee to You

I Guarantee every Ideal exactly as I say, or your money back. For 10 years I will replace all Ideal parts if defective in materials or work.

Over 80 Per Cent Hatches

Here's how my customers prove up my ideals:

Mrs. F. E. Buell, Charles City, Ia., got 103 chickens from 105 fertile eggs.
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Get Today My "Tell-How"

BOOK FREE

YOU—man or woman, friend-of-mine-to-be—can find how profitable, easy, satisfactory and creditable it is to be in the chicken-raising cash business, with Ideal incubators and brooders, if you'll send me your name for my Big, New 1910 Ideal Incubator and Brooder Book.

Don't let yourself miss my this-year's book.

Beginners and old-time-experienced Poultry Raisers tell the story—with photographs and helpful advice, which will prove how you can start right and make the most money.

Only \$7.50 to start.

Why pay more? Quick delivery—freight prepaid—complete—ready to hatch with. No disappointments.

This price based on my new 50,000 capacity. Write today.

I have something NEW to tell you about 1910 Chicken-Raising for BIGGER PROFITS this year. Let me write it to you PERSONALLY. I tell you the Freight Prepaid Price of my Ideals HERE (Only \$7.50 Complete—No Extras). But let me Write You My Own Chicken-Raising Best Experiences. And Also Send You My Big, NEW 1910 FREE BOOK.

Address me Personally—J. W. MILLER, Proprietor
J. W. MILLER COMPANY, Box 305, FREEPORT, ILLINOIS
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Send Me Your Name For My Big "Chicken-Cash" Book FREE

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Send me your Big, Free 1910 Ideal Incubator and Brooder Book—postage paid.

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IMPORTANT.—Cut or tear out and mail me this Free Coupon or Postal, or write me a letter right away to Get Ready, and get my Lowest-Factory-Capacity Price—Freight Prepaid—complete, if you want my Incubator at only \$7.50 when you read my book.

YOU need not pay more than \$7.50 now, complete, freight prepaid, for the highest-grade, 10-year-guaranteed Ideal Incubator. My price is now based on 50,000 capacity. Every machine guaranteed perfect—direct to you. Ideal to start. Runs itself, with least watching. Handsome, substantial, safe; givensized-also-top, ends sides and bottom; covering best-seasoned-wood case—insulated perfect-heavy wool felt making hatching sure in any climate. Tubular copper tank and copper boiler. Perfect circulation; no cold corners or hot centers. Metal-jacket heater-head uses heat twice saving half on oil cost. Most convenient egg trays and nursery. Every part made on combined best experiences of thousands, so you can hatch and raise the most strong, healthful chickens with

1910 IDEAL INCUBATORS and BROODERS

(120, 175 or 240-Egg Capacity)

CAUTION.—Don't confuse my low price with "knock-down" prices, or experiments, or "cheap built" machines. Ideals, as high quality machines as can be made for most practical use. You get my 50,000-capacity savings in the price of one. I bought 12 tons of copper before the rise—also steel (enormous quantities), also wood, long ago, to season it properly. That's the only way I could make you such a machine at such a low price.



Facts You Should Know

1. No extras to pay for. Comes complete, ready to use.
2. Automatic regulator—FREE.
3. Automatic ventilator—FREE.
4. Metal Lamps; Egg Testers; Thermometer the best made, to get the most strong chicks—FREE.
5. See free catalog for the whole story of Ideals.

ONLY
\$7.50
(120-Egg Capacity)
COMPLETE

(Ready to Use—No Extras to Pay)
FREIGHT PREPAID
(East of Missouri River, north of Tennessee. Freight allowed that far on points beyond.)

SAVES 2/3 COST OF HATCH+WORK

One gallon of oil and one filling of oil tank makes complete hatch. Turn eggs without removing tray. Central double heating system gives equal radiation. 70 days trial. If not satisfied return and money refunded. We pay the freight.

Write today for FREE BOOK
THE RAYO INCUBATOR CO.
Burt St. BLAIR, NEB.



BEGIN NOW

Now is the time to plan your poultry work for this season. If you need a new incubator or brooder please write us. We will save you money. The materials in our machines this season we bought before the present high prices. We do by machinery what others do by hand. Result—Lower price to you. Drop us a postal for our catalog.

Geo. Ertel Co.
171 Kentucky St. CHICAGO, ILL.



\$7.55 Buys Best 140-Egg Incubator
Freight Prepaid

Double cases all over; best copper tank; nursery; self-regulating. Best 140-chick hot-water Brooder, \$4.50. Ordered together, \$11.50. Satisfaction guaranteed. No machines at any price are better. Write for book today or send price and save waiting.

Belle City Incubator Co., Box 52 Racine, Wis.

Breed Prize Winners
We have the stock at right prices—all leading varieties; 100 pens. Write us. Booklet on "How to Raise 48 Chicks Out of 50 Hatched," 10c; Poultry Paper, 1 year, 25c. Catalog Free.
ROYAL POULTRY FARM
Dept. 306 Des Moines, Iowa



SAILOR AND GARDEAU

The pair of Hereford bulls illustrated herewith are two of the four best bulls owned by Mr. A. E. Cook, of Odebolt, Iowa, whose great public sale of Herefords takes place Wednesday, January 26th. It is scarcely necessary to go into details with reference to these bulls. Their blood lines are right, as is shown by the catalog, and their individuality is right, as is evidenced by the picture. They are just the sort that farmers need for the purpose of bringing their common cattle up to the high standard which commands the top figure at the Chicago markets. Do not forget the day and date of this sale and plan to attend. It will be a treat even if there be no desire to make purchases. See advertisement on page 51.

tion of it should be kept wet. They seem to enjoy the moist earth. Leg weakness is brought about by disuse. As we all know, the most active members of our body are the first to suffer from disuse. I have not had a dozen cases of this trouble since I built my regular brood house, where I could promote exercise under all conditions of the weather, and right there is where I always condemn the use of outdoor brooders. The weather conditions are likely to be such that your chicks must be confined too long without sufficient exercise, and hence indigestion (the white intestinal trouble) and leg weakness sets in and a heavy mortality follows.

Now, I hope Mr. Neale will pardon me for just one criticism, and that is where he quotes Mr. Kellerstrass as saying those weak legs are caused by kidney troubles. Now, if a fowl of any kind has kidneys, then my teachings in this great state of ours (Wisconsin) have led many a person in the wrong path, but I have little fear of this, for the fact remains that fowls of all kinds have no urinary organs (kidneys). Kidneys are for the purpose of secreting the urine and, as we all know, the fowl has no means of urinating. That is why in the care of fowls of all ages that care must be exercised throughout that nothing is done to create an abnormal thirst, they not having the urinary organs to take the impurities from the water; the work is thrown on the digestive tract and there we are again with that "white intestinal trouble" bowel complaint.

I want to say to our readers in conclusion to not dwell at too much length on this terrible disease (intes-

tinal) being contagious, but in the brooding of your chicks study the natural conditions of the old hen and her brood and furnish them, and but little, if any, of this trouble will enter your broods. If the mortality in my broods reached the enormous number of 60 per cent, or even half of that, I would go out of the business at once.

Wisconsin. C. E. Matteson.

Preserved and Powdered Eggs.

To the Editor of The Homestead:

A new method of preserving eggs comes to us from an English firm of importers. They claim by this method eggs six months old are made to retain their new-laid freshness. We quote:

Acting on the theory that an egg decomposes owing to entrance of bacteria through the shell, eggs by the new process of preservation are first disinfected, then immersed in a vessel of hot paraffin wax in a vacuum. Air in shell is extracted by vacuum, and atmospheric pressure is allowed to enter vessel, when hot wax is pressed into pores of shell, which hermetically seals it. Evaporation of contents of eggs, which has a harmful effect, is thereby prevented, and egg is practically sterile. Yolk of pickled eggs and others artificially preserved will frequently break on being poached, but eggs preserved by this novel process are free from such fault. It is claimed for this process that eggs will bring \$11.66 per 1,440 more than those preserved in lime water, and \$7.78 more than those kept in cold storage.

This is hardly practical for farmer folk, but the principle it shows is of great interest, and may lead to some modifications of it that will put it within reach of those with ordinary facilities.

Not quite so new, but no less interesting is the evolution of the powdered egg. This product—as we are

told—is, in fact—dried eggs—eggs from which the shells have been removed by process of evaporation. Moisture and water are driven off. After this yolks and whites are ground together, making dessicated or powdered product. Eggs in this powdered form have been adopted for use in the United States Navy, and have so satisfactorily met a real need that this food has established itself as a permanent feature in regular navy rations.

This invention has special interest for farmers and poultry raisers, as it opens to them a new market. If the powdered egg proves the success it promises, it will be possible to save eggs that heretofore have spoiled before reaching the consumer. Its convenience in many ways will also increase the consumption and greatly enlarge the demand for eggs.

Some amusing things have been told of the powdered egg as introduced in the navy. The men were full of jokes regarding this old friend in new form, and declared themselves able to detect inferiority of dessicated eggs to fresh eggs. Finally this was carried so far that on one of the ships the commissary sent ashore and privately bought sixty dozen fresh eggs, which were made into omelet and served just as those made from powdered eggs had been. The men were, of course, unaware of recent purchase, and vigorous complaints were more pronounced than usual. This convinced the officers of the ship that complaints were, as they had suspected, based solely on imagination; that in fact it was impossible to tell whether fresh or powdered eggs had been used in the omelet.

It is claimed that powdered egg serves well not only in omelet form, but also in cakes and puddings. If this is true, it greatly widens usefulness of this new product. It seems to have come to stay, and it will materially add to profits of the poultry raiser.

A Question of Feeding.

To the Editor of The Homestead:

A reader from West Branch, Iowa, sends the following query:

In a recent issue you recommended feeding middlings, oil meal, ground oats and corn meal to fowls. I have 125 hens and would like to know how much of the above feed to give them in the morning, and what proportion of each. Should this feed be fed dry or soaked over night or fed warm? I have a large furnace room and plenty of hot water. I could soak the feed or mix it up with hot water. I haven't the clover hay or potatoes to feed. How would it do to mix ground alfalfa in with the rest?

Upon the feeding question there is a great diversity of opinion. The ranks of poultry folks are divided into two great classes—the advocates of dry feeding, and those who feed mash. Those of each party present arguments cogent at least to themselves, and the amateur must decide between them. Experience is the best teacher.

Now there is a difference in feeding penned birds and fowls on range. Our correspondent fails to tell how he manages his 125 hens, so the advice must be of a more general character than if particulars had been given.

The writer is a thorough believer in dry feeding. In years past, the mash formed part of the ration, but experience has taught a better way. There is much danger in careless mash feeding. If the mash is hot, or even quite warm, it makes the fowls susceptible to cold, and opens the door to roup and kindred diseases. It also requires much care to feed it in a sanitary manner.

The mixture of grains recommended is good, but since fowls are as fond of variety as their human masters, I have found it better to use different grains so as to vary the ration as much as possible. Since the suggested grains are all finely ground, it must be that the suggester uses them in mash form. If it is desired to use them in this way, it is a good idea to mix them with boiling water the night before, keeping closely covered—taking care that the whole is a crumbly mass—not a wet, sticky pudding.

But let me urge you to avoid giving this mash as an early morning feed. Your fowls will fill up on it—and sit around instead of taking the vigorous exercise they need. If you

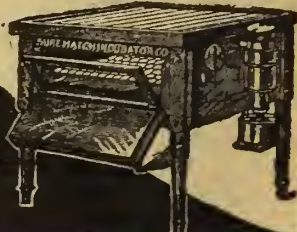
The Million Dollar Bonded Incubator

There is only one—The Sure Hatch. It is in a class by itself. No other incubator is built of such high grade materials. No other has such a record of results in hatching, nor such a liberal guarantee. Every purchaser of a **Sure Hatch Incubator** actually receives a \$1,000,000 Surety Bond issued by the great Bankers' Surety Company of Cleveland, Ohio. That bond places the entire resources of this great corporation behind the **Sure Hatch Guarantee**.

No other incubator is good enough for Bonding Companies to risk their money in backing. The Bankers' Surety Company could not afford to let their name be used, let alone back up our guarantee if the **Sure Hatch** were not the best incubator on the market. They didn't agree to issue bonds on the **Sure Hatch** without first looking into the machine, its construction and record.

Now, can you see any chance to lose on an offer like that when we pay the freight and allow you 60 days' Free trial? Write to-day for complete information about the only **Bonded Incubator** and for Free Poultry Book.

Sure Hatch Incubator Co.
Box 16 Fremont, Neb.



Chicago, Ill., Aug. 20, 1909.
"Jan. 1st I had 27 hens. Since then I have hatched over 500 chicks. Sold \$108.00 worth of broilers and eggs and have at least 350 chickens left. I have tried three other incubators but I consider the **Sure Hatch** best and easiest to run."

MISS L. A. POPE.

Split Hickory—Let Me Pay The Postage To You

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No year in history has seen such splendid Split-Hickory Vehicle Styles as this—or such low prices. I promise you also just as great savings on big-grade Harness. Just send me your name this season—right away, sure, for my new, Big Free Book of over 125 styles to select from. Select just the made-to-order, direct-from-factory Split-Hickory you want. I'll send it promptly on **30 DAYS' FREE ROAD TEST** and **2 Years' Guarantee**. You save \$26.50 or more.

Make your own selection from my book—trimmings and finish to suit you best—all materials and workmanship and values just as represented or money back without question, from the largest exclusive carriage and harness factory in the world. Write for my Book, Free, today—personally to **H. C. Phelps, Pres. OHIO CARRIAGE MFG. CO.** Station 31, Columbus, Ohio.

"I save you \$30 to \$35 on this Split-Hickory Auto-Seat Buggy."

Over 125 other styles at even bigger savings—See Free Book.



Free and Clear to Your Depot on 30 Days' Trial

NO MONEY DOWN—NO CONTRACT

This big money-maker is yours, for 30 days' use, anyway, no matter where you live, without a penny of expense to you. I'll pay the freight. I don't want any money in advance—any deposit—any contract. All I want is your permission to ship you a—

CHATHAM FANNING MILL, SEED GRADER AND CLEANER

Then, if you want to keep it, pay me my bedrock, factory price—on easy terms. I think you'll want it for keeps when you know how fast it makes money by giving you clean, graded seed to plant and sell. One means full crops—necessary when land is so high; the other means top prices when you sell. **MY FREE BOOK**, No. 124, will tell you all about it. Send your name and address, now, so I can make you my remarkable offer. Ask for Book No. 124. Use nearest address. **Manson Campbell, President, THE MANSON CAMPBELL CO.,** Detroit, Mich.; Portland, Ore.; Kansas City, Mo.; St. Paul, Minn.

GET FREE BOOK NO. 124



WHAT IS YOUR POULTRY WORTH?

It has a value, but that value is determined by and dependent upon health conditions. Best and surest poultry health can be obtained and maintained by using

GERMOZONE

A preventive and cure for Roup and Cholera unexcelled in efficiency. Germozone is a germicide, a cure and preventive of Cholera and Roup. It is a system builder. It goes to the seat of trouble and usually effects a permanent cure.

Given in the drinking water twice a week it cures disease, prevents contagion and keeps the fowls in a healthy, vigorous condition. Prepared either in tablet or liquid form, 50c. We pay postage on tablets.

Germozone is the best health insurance you can have for your poultry. Cost is small and it is sold on an absolute guarantee.

Germozone is not an experiment. It has been doing for years for Mr. Lee just what he is telling it will do for you.

LEE'S EGG MAKER



is not a medicine. It is a scientific food product compounded by Mr. Lee, who is a poultryman of 25 years' experience. If it were not for the success claimed for it Mr. Lee would never have offered it to the public. That is one broad, sweeping assurance any poultryman has who buys Lee products—they know his own flock has demonstrated their worth to him.

READ THIS GUARANTEE

We guarantee that no matter what you are feeding, and regardless of the number of eggs you are getting at the present time, if Lee's Egg Maker is added to the daily ration—made a portion of it—the increased egg yield resulting therefrom will more than pay the cost of the Egg Maker, cost of labor required, and 100 per cent profit on said labor.

25c, 50c, \$2 sizes. The smallest size is large enough to prove you ought to buy more. A larger size would do it quicker—and you would get a little more in proportion to the price.

Write for free copy Lee's "Chicken Talk," written by Geo. H. Lee himself. Also free Mandy Lee Incubator catalog. Yours by first mail.

GEO. H. LEE CO.

1173Harney St., Omaha, Neb.

General Agents in ALL large cities. Write for name of one nearest you.

90% Hatches

from the Cyphers—in every country and climate—for old-timers and beginners. For you.

CYPHERS INCUBATORS and Brooders are non-moisture, self-ventilating, self-regulating. Write for 160-page Catalog. Address: Nearest City.

Cyphers Incubator Co., Department 42 Buffalo, N. Y.; New York City; Chicago, Ill.; Boston, Mass.; Kansas City, Mo.; Oakland, Cal.



Send Us a Postal for a Price

Just your name and address on a postal brings prices on all sizes of celebrated

Racine Incubators and Brooders—guaranteed to hatch highest percentage of eggs. Liberal Trial Plan. Best Incubator Proposition on the market. Postal brings all printed matter and prices at once. Address

Racine Hatcher Company

Box 135, Racine, Wis.



Poultry Supplies

As we are the largest as well as the oldest dealers in poultry supplies west of the Mississippi River, we can offer many items of interest to poultry breeders. We also handle thoroughbred poultry and **EGGS FOR HATCHING**. Don't fail to send for a copy of our new illustrated price list. Complete catalog of seeds, plants, etc., also free if you mention this paper. Write at once.

Iowa Seed Co., Dept. 1 Des Moines, Ia.

43 Leading Varieties of pure bred Chickens, Ducks, Geese, Turkeys; also Holstein cattle. Prize winning stock. Oldest and largest poultry farm in the northwest. Stock, eggs and incubators at low prices. Send 4 cents for catalog. **LARKIN & HERNBERG, Box 13 Mankato, Minn.**

arrange matters that the smaller and weaker birds shall have an equal chance with the rest.

Mrs. S. B. Titterington.

When Spurs Appear.

To the Editor of The Homestead:

Mr. M. O. D., Sycamore, Ill., writes asking at what age spurs begin to grow on a hen. There is no stage of the age of the fowl when spurs are liable to show themselves, in fact, it is only a freak if they show themselves at all. When spurs mature on a hen at any age it simply shows there is a slight weakness in their ovarian glands thereby showing a more masculine appearance and it must always follow where there is a growth of spurs that the fowl will crow also. I have had pullets show this weakness before they were a year old, while with others it would show itself from one to two years of age. It is just as liable to show itself on young birds as on old ones and it is quite common

Know My Incubator — Know My PLAN.

My plan is so liberal that you will enjoy dealing with me, and my "QUEEN" incubator is such a good, substantial money maker for your farm that you and I will both be more than satisfied to become poultry friends.



I Pay the Freight.

Just drop me a line, so I can explain my proposition and let you see pictures and letters of my farm friends who use "QUEEN" Incubators. Please do it to-day. I am still including one of my handy Poultry Record Books with my Catalog. It enables you to keep exact figures on hatching and to know how much you are making. I want you to know these facts when you try out a "QUEEN," because it will prove conclusively that you are getting all the poultry profit that can be made.

Pick out from my catalog the size you want and I will just fix you up to your entire satisfaction—make you a low price, a long time guarantee and allow you an extended trial. Write me to-day or you may forget it.

Wickstrum, The Queen Incubator Man,
Box 10, Lincoln, Neb.

Free Farmer's TAPE MEASURE

Also an interesting little book telling "How Farmer Gus Made Good." Write us a post card request, telling us about the number of rods of fence on your farm, and we will send both the book and the 10-foot tape-measure in nickel-plated case, free. In addition we will tell you about



All troubles with hilly ground are overcome with APEX fence. Besides it is the strongest and most durable fence on the market. We guarantee every rod of it. Write today for full information and the free Tape-measure and booklet.

Janesville Barb Wire Co., 207 So. Franklin St., Janesville, Wis.

125-Egg Mankato Incubator \$7.25 245-Egg \$9.50

The high-grade hatcher now down to bedrock price. Well built of best material. Has double walls, heavy copper hot-water tank and boiler, self-regulator, nursery, high legs, safety lamp, egg tester, thermometer, etc. None better at any price.

Sold direct from factory under binding guarantee and long-term trial. The result of 15 years' experience with incubators and raising poultry.

120-Chick Brooder \$3.75—240-Chick Brooder, \$4.50 Write for big free catalogue, or order direct from this ad.

MANKATO INCUBATOR CO., BOX 827 MANKATO, MINN.

HERE'S CERTAINTY

For beginner, old-timer—every body. Don't guess or experiment—don't have mishaps. The 16-year-old

SUCCESSFUL Incubators and Brooders make you sure. Thousands have proved them the world's greatest. Booklet on "Proper Care and Feeding of Chickens, Ducks, and Turkeys, 10c. 60c Poultry paper 1 year, 25c. Catalog free. Des Moines Incubator Co., 60 2nd St., Des Moines, Iowa

14 1/2 Cents a Rod

For 24-in. Hog Fence; 18 3/4-in. for 26-in.; 18 3/4-in. for 31-in.; 22c for 34-in.; 25c for a 47-inch Farm Fence. 50-inch Poultry Fence 33c. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.

KITSELMAN BROS., Box 290 MUNCIE, IND.

BROWN FENCE

For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. We pay freight.

The Brown Fence & Wire Co., DEPT. 34 Cleveland, O.

Cheap as Wood.

We manufacture Lawn and Farm Fence. Sell direct shipping to users only, at manufacturers' prices. No agents. Our catalogue is free. Write for it today. UP-TO-DATE MFG. CO. 927 10th St., Terre Haute, Ind.

Ornamental Fence Cheaper than wood for Lawns, Churches, Cemeteries, Public Grounds. Also Wrought Iron Fence. Catalogue free. Write for Special Offer. THE WARD FENCE CO., Box 450 Decatur, Ind.

BOWSER SWEEP MILLS

Different from all others. 4 or 2 horses. Gears 16 to 1 or 7 to 1. Grind Corn with shucks or without. And all small grains including Oats and Wheat. (Also make 8 size belt mill.) E. N. P. Bowser Co., South Bend, Ind.

FENCE STRONGEST MADE.

en-tight. Sold to the user at Wholesale Prices. We Pay Freight. Catalogue free. COILED SPRING FENCE CO., Box 20 Winchester, Indiana.

for such birds to attempt to serve her feminine associates. It is the masculinity showing itself which causes this. Such birds should be subjected to the block and hatchet at first signs of such a growth, for they are of no earthly use. They are the drones of the flock. I will add, however, there are exceptions to all rules. I have stated the rule. The exception would be that it sometimes happens that such a bird will lay, hatch and brood the same as any ordinary fowl, but even in that case I would advise dressing her for the table just the same for all though she made an attentive mother and lay a goodly number of eggs it is not advisable to keep her for fear her same weakness will be propagated into future generations. Such a fowl would be disqualified in a show room owing to the liability of her transmitting the weakness to her offspring.

C. E. Matteson.

STEEL SHOES FOR FEBRUARY THAW.

One of the most disagreeable times of the year is during February and March, when the winter's snow is melting. Ordinary shoes become soggy and of little use. The steel shoe, manufactured by the Steel Shoe



Company, of Racine, Wis., an illustration of which accompanies this article, has been found by many farmers to be a solution for the trouble that is ordinarily experienced at this time. A full description of these shoes, with all details, even price, etc., will be found on page 33 of this issue.

ONLY EIGHTY CENTS PROFIT ON HIS INCUBATOR.

Mr. M. M. Johnson, well known as "Old Trusty" Johnson, of Clay Center, Neb., and also as a celebrated incubator manufacturer, has issued plain figures this year showing how he can afford to make less than 8 per cent on each incubator which he sells. As his incubators sell for less than \$10, all freight prepaid, his profit on each machine is therefore less than eighty cents. Mr. Johnson reports making over 50,000 "Old Trusty" Incubators each year. He says his manufacturing cost, "overhead charges" he calls them, is just about the same as when he only made 5,000. His present output he

Johnson's "OLD TRUSTY" INCUBATORS

HOW TO MAKE MONEY
With Incubators and Brooders

Every Page a Poultry Sermon

Egg Farms	Poultry Fancies
Winter Eggs	Poultry Farms
Broiler Raising	Turkey Raising
Poultry Foods	Geese and Ducks
Lice Killers	Egg Records
Poultry Lectures	Incubator Tables

By M. M. JOHNSON, Clay Center, Neb.

says is more than any other manufacturer ever made in a year. Because of the large quantity he manufactures, he can sell them cheaper. Mr. Johnson's incubator book this year is bigger and better than ever. It is printed on the finest kind of paper with numerous colored illustrations and pictures. Send your name to Johnson, Incubator Man, Clay Center, Neb., on a postal card today for his booklet and information about his less than \$10 price Old Trusty Incubator; also his generous free trial offer to prove the Old Trusty will be satisfactory to you in every way. Mention this paper when writing. See advertisement on this page.

THE RAYO INCUBATOR.

An incubator catalog that gives the reader intelligent and practical reading matter from the viewpoint of the poultry raiser, has just been issued by the Rayo Incubator Company, of Blair, Neb. It departs from the old lines, having a large amount of material that is not only readable, but highly important. The manufacturers of the Rayo Incubator are to be congratulated for issuing such a catalog. The inventor of this famous incubator has spent more than ten years in the careful study of the incubator problem, and has applied his knowledge in a practical way. The Rayo Incubator has been successfully used for a number of years in a certain limited territory, its reputation being so high in this territory that the factories are not able to supply outside demands. The company is now prepared to sell all over the United States, and it is probable that within a short time the Rayo Incubator will be acknowledged nationally as one of the best incubators in the world. The Rayo Incubator catalog is

My Big Poultry Book is Ready

SEND me your name and address now for my Big 1910 Free Book about MY 1910 "OLD TRUSTY" Incubator. It's like my Incubator and Brooder Factory—built by practical people to do the practical work. I write my book every year myself—put my life-experience into each number—include the experience of successful chicken-raisers out of the 150,000 who have bought "OLD TRUSTIES," and this year I give you over 200 pages of common sense on chicken-raising, illustrated with over 1,200 (mostly new) photographs, which have been sent me by my friends from all over the world.

If you know the kind of a book that I write for you, you'll want this one. It's the best I've ever written. Just write me, and I'll send it to you if you are interested in raising chickens for the Biggest Profits.



M. M. Johnson
(Incubator Man)

GET MY PRICE

Write Me a Postal Now, or on the Coupon Below, and I'll Tell You How Much Less than \$10 It Will Be Anywhere You Live; All Freight Prepaid by Me, East of the Rocky Mountains.

"Old Trusty" is made of California Redwood—metal-encased—practically runs itself—double-walled, and has a heating system absolutely superior to any other incubator, because the heat is radiated evenly in all parts of the egg chamber. It has a double direct-acting regulator, so reliable that "Old Trusty" could actually be run without using a thermometer, though equipped with best one made. Patent jacket, enclosing boiler, saves 15 to 50 per cent of the oil. Nothing superfluous—everything practical. Every part made for use.



Safe and Sure
Johnson Pays the Freight

My 1910 Old Trusty Safe and Certain Incubator

It's Metal-and-Asbestos-Encased All Around the California Redwood from Top to Bottom—Logs Metal, Too

40, 60 or 90 Days' Trial

(Enough to get three hatches)

Freight Prepaid

To Your Railroad Station Anywhere East of the Rocky Mountains

10 Years' Guarantee

(Johnson's Own Guarantee of Durability)

Also 75 Per Cent Better Hatches Guaranteed

Remember—I just ask you to write me a postal card or a letter, or the coupon below, and let me send you my new book, telling the successful experiences of thousands of beginners and old-timers at chicken raising. You decide for yourself what you think of Johnson and his New "Old Trusty" when you read my book. I just want you to let me quote you a price on an "Old Trusty," so that you can try it on my plan, which is the most liberal in the world. When I hear from you I'll tell you how much less than \$10 an "Old Trusty" will cost you, anywhere you live; and I'll pay the freight to you east of the Rockies to let you prove it out. Prompt shipments, too.

Now, just write me, no matter whether you are an old friend of mine or a new friend.

M. M. Johnson
(Incubator Man)

Clay Center,
Nebraska

M. M. Johnson, Clay Center, Neb.

Send me Your New 1910 "Old Trusty" Incubator Book, Free, and Price (less than \$10)—Freight Prepaid to my station.

Name.....
Town.....

State.....

something every member of a family will be glad to read. Our readers can get it free by writing to the Rayo Incubator Company, Burt St., Blair, Neb. See page 19 of this issue.

A GUARANTEED INCUBATOR.

The Bankers' Surety Company, of Cleveland, Ohio, have put out an issue of bonds backed by their entire capital and surplus amounting to millions of dollars. The entire league backs the guarantee of the Sure Hatch Company, of Fremont, Neb. One of these bonds will be sent to every purchaser of the Sure Hatch Incubator. This company have always given a liberal guarantee with their machines. They will continue to do this, but are backing it up with one of the surety bonds of the Cleveland company. Their guarantee is to hatch all fertile eggs in the severest weather. The buyers of the Sure Hatch, we feel sure, will find it a great satisfaction in knowing they are holding a cash bond guaranteeing such results. Write today to the Sure Hatch Incubator Company, Box 16, Fremont, Neb., and get full information about their bonded incubator. See advertisement on page 20.

POINTERS.

—Mr. A. T. Sanders, of Perry Iowa, is offering Rose Comb Rhode Island Red cockerels of the best stock for sale in his advertisement that appears on page 22. Mr.

Sanders is also receiving orders for eggs to be delivered in season.

—Messrs. Rinner Bros., of Noble, Iowa, are offering White Wyandotte cockerels and cocks for sale in their advertisement appearing on page 22.

—Mrs. L. M. Estes, of Audubon, Iowa, advertises thirty White Wyandotte hens and thirty pullets for sale in her advertisement appearing on page 22.

—Cockerels and hens of several of the leading varieties of poultry are advertised for sale on page 22 of The Homestead by Mr. W. C. Frazier, of Atlantic, Iowa.

—Fifty White Holland turkey toms are advertised for sale by Mrs. H. A. Sexsmith, Greenfield, Iowa, on page 22. These are choice birds from the very best of stock. Write Mrs. Sexsmith about these birds at once.

—The new advertisement of the Sabot Kennels, of Pella, Iowa, appears on page 22. In furnishing copy for same they write: "We are entirely sold out of Rose Comb Rhode Island Red cockerels. These Rose Comb cockerels were choice specimens and, as we priced them reasonably, sold them fast in lots of two to twelve at a time. Have now in the Red line but a few choice Single Comb cockerels. We have fifty-two head of the most excellent Fox Terrier pups, ranging in age from three to six months old. These pups are all in tip-top, thrifty condition, beautifully marked, richly bred and from the very best dispositioned

and game to death working parents. Parents wishing a very choice Fox Terrier pup or a pair of them not related will do well to write us for prices."

—Mr. George M. Deyoe, of Mason City, Iowa, announces in an advertisement on this page that he has for sale a number of Buff Wyandotte cockerels and a few pullets. These are from prize-winning strains and are good birds well worth the low prices at which they will be sold.

—Seventy-five large-boned, nicely-barred Plymouth Rock cockerels from prize-winning stock are offered for sale by Mrs. T. C. Churchill, of Monroe, Iowa, in her advertisement appearing on this page. Mrs. Churchill has been a breeder of Barred Plymouth Rocks for fifteen years.

—Mrs. Sophia Rader, of Laurel, Iowa, in furnishing copy for her advertisement on this page of The Homestead, writes: "My Rhode Island Reds are of the very best strains, both Single and Rose Comb, with no smut among them, red to the skin and in a healthy, thrifty condition. My supply is limited."

—A closing-out sale of prize-winning Partridge Wyandottes is announced by Messrs. Good Bros., of Montezuma, Iowa, in their advertisement that appears on this page of The Homestead. They invite Homestead readers to write them their wants, and believe that they will be able to please our readers, both in quality and price.

—Mr. J. H. Howarth, of Moulton, Iowa, has for sale a fine lot of Rouen ducks, which he is offering for sale at reasonable prices. The birds include not only good breeding stock, but also a number possessing strictly show-yard character. He also has a lot of first-class, large-boned Barred Plymouth Rock cockerels which he will price at reasonable figures. Note the advertisement on this page and write for prices.

—Mr. J. W. Wagner, breeder of Barred Plymouth Rocks, Monroe, Iowa, calls our attention to a mistake made in a recent Pointer in regarding the winnings of his flock at the Central Iowa Show. The following are the correct winnings of his Barred Plymouth Rocks: First, second, third and fifth on pullet; first on pen; third and fifth on cockerel; first on cock; second on hen; silver cup for best pen; silver cup for best colored female, and special cash prize for highest-scoring ten.

—Mr. W. S. Gregory, of Keota, Iowa, who is offering White Wyandotte cockerels and pullets for sale in his advertisement on this page, writes: "The most of the cockerels we have left for sale are from the later hatches, but they will make good breeders. They are pure white and have nice, yellow legs, and are of the very best breeding. We have decided to spare a few more choice pullets and those wanting same should order at once. Our prices are right for the kind of stock we will send out."

—Mr. M. E. Birchard, of Hazelton, Iowa, breeds Single Comb Rhode Island Reds and advertises them on this page. Mr. Birchard is now offering for sale cockerels and pullets and at a very low price when the quality of the stock is considered. Being a true fancier and putting his entire time and energy into the poultry business, Mr. Birchard produces a class of stock which cannot fail to meet the approval of buyers. Those who write early will, of course, get the advantage of the stock on hand before the choice is picked.

—Mrs. Sarah F. McKeen, of Sac City, Iowa, is offering Black Langshans of both sexes for sale in her advertisement that appears on this page. In furnishing copy, Mrs. McKeen writes: "My Langshans are of the best in the country. I have spared neither pains nor money to improve my stock, which I think is as near perfection as it is possible to get them. Have both scored and unscored stock. I am daily receiving orders from former customers. My flock this year was headed by a sweepstakes prize winner and first-prize cockerel, also other high-scoring males and females."

—On this page of The Homestead will be found the advertisement of Mrs. Edith Eggabroad, breeder of Silver Laced Wyandotte chickens and Mammoth Pekin ducks, Grundy Center, Iowa. Mrs. Eggabroad, in furnishing copy for her advertisement, writes: "This winter is the first I have ever sent any of my Pekin ducks to a poultry show; I sent six ducks to the Iowa Falls show and won first and second on old drake; first, second and third on old duck; first on young duck hen and first on best pen of ducks. I also won at Fort Dodge, first and second on drake and first and second on duck hen. I have just as good and a little better all-around flock than I ever had. I also have a few choice Silver Laced Wyandotte cockerels for sale."

—Mr. J. M. Erickson, of Slater, Iowa, writes as follows in regard to his White Wyandotte chickens, an advertisement of which will be found on this page: "My winnings at the Des Moines Poultry Show were first on pen of ten; second on pen of five; second and fourth on cock; third, fourth and fifth on cockerel; third on hen, and fifth on pullet. At Ames last week I won second and third on cock; first, second and fourth on cockerel; first and third on hen; third, fourth and fifth on pullet, and first on pen of five and first on pen of ten birds. Just think, our winnings the past three years have been eighteen firsts, ten seconds, eleven thirds, nine fourths, ten fifths, eight sixths. This record, in such shows as Des Moines and Ames, ought to prove quality."

—Those who are interested in Wyandotte chickens should read the advertisement of Mr. A. L. Anderson, of Indianola, Iowa, which appears on this page. With reference to these Wyandottes, which belong to the White, Buff, Golden and Silver Laced strains, Mr. Anderson writes: "I have 200 cockerels that I want to sell between now and March 1st, and I do not know of any better way to sell them than to put an advertisement in The Homestead. I am wintering my birds in open farm houses and find them to be the best houses I ever used. My birds are wintering in better shape than I ever had them do before, with neither roup nor colds." Quite reasonable prices will be quoted on these birds. Some of them, as will be noted in the advertisement, were winners at the late Iowa State Fair. Address Mr. A. L. Anderson, Indianola, Iowa.

DOGS.

COLLIE PUPPIES From our imported studs and bitches. Write for our catalog and photos, giving full description. Hundreds of testimonials. Our Collies work; pairs no akin furnished; prices to suit. We ship to all parts of the United States and guarantee safe delivery. **UNDERHILL KENNELS, Knoxville, Iowa.**

COLLIES Two choice female pups, whelped Aug. 30th; one male July 25th, by Imp. Ormskirk Artist. A registered matron only \$10, half value; all sable and white. Pedigrees furnished. **H. J. ROMPF, SOMONIAUX, ILLINOIS.**

SCOTCH COLLIE PUPPIES For sale. \$5 to \$8. Very best breeding; will make fine workers. Write us your wants. **T. A. STEVENSON, Shannon City, Iowa.**

Scotch Collie Puppies sired by Rockdale Hall. Write for description and prices to Miss Victoria Saunders, Manilla, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS, Cumming, Iowa.**

RHODE ISLAND REDS.

S. C. Rhode Island Reds TOMPKINS STRAIN Write for descriptive circular.

P. H. Thiel, Renwick, Humboldt Co., Iowa.

SEND STAMP FOR PRICES OF EGGS FROM special matings and scored Single Comb Rhode Island Reds, from one of the best strains in the "Red" kingdom. Imported Hartz Mountain canaries. A special offer to make. **Mrs. F. W. McIntyre, R. 5, Red Oak, Iowa.**

RHODE ISLAND REDS Rose Comb Rhode Island Red cockerels for sale. Sire scored 92½ points.

WM. SEXSMITH, ORIENT, IOWA.

S. C. Rhode Island Reds Choice utility ckls. and pullets at very reasonable prices, as I must have room for breeding pens. **M. E. BIRCHARD, Hazelton, Iowa.**

R. C. R. I. Reds Cherry Red strain, scored and unscored. Cockerels for sale. Prices right. **Harry C. Blake, Maquoketa, Ia.**

S. C. Rhode Island Reds A choice lot of scored birds for sale; eggs in season. **Lec Nichols, R. 4, Woodward, Ia.**

Rose Comb Rhode Island Reds. A choice lot of cockerels scored by Todd, for sale. **D. E. Witmer, - - - Palk City, Iowa.**

Single Comb Reds Scored cockerels, prices right as to quality; unscored \$1 each. **Frank Chalupa, Pleasant Plain, Iowa.**

S. C. R. I. Red Cockerels For Sale \$2 to \$5. **Mrs. H. L. Alsop, Sylvia, Iowa.**

S. C. R. I. Red cockerels; fine birds, from \$2 up to \$5. A few R. C. R. I. Red cockerels at a bargain. **Mrs. Sophia Rader, Laurel, Iowa.**

A Few Choice Rose Comb R. I. Red cockerels. Orders for eggs booked now. Best of stock. Address **A. T. Sanders, Perry, Iowa.**

WYANDOTTES.

WHITE WYANDOTTES CKLS., \$1.50 each, to close out. Have decided to sell 30 more nice pullets at \$1.25 each. Order quick. **Roselawn Poultry Farm, R. 2, Keota, Iowa.**

I Have the Best White Wyandottes I ever raised, now ready for sale. \$10 trio a specialty. Quality stock. **J. M. Erickson, Slater, Iowa.**

WYANDOTTES White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. **A. L. Anderson, Indianola, Ia.**

PARTRIDGE Wyandottes. Closing-out sale of prize winners and breeding stock. Write us just what you want. We can please you both in quality and price. Address **Good Bros., Montezuma, Iowa.**

Silver Laced Wyandottes Exclusively Scored or unscored. **Dr. D. C. Garner, Mingo, Ia.**

SILVER LACED WYANDOTTES Hens, roosters and pullets for sale cheap in lots. **Mrs. J. W. Lowe, Clarksville, Iowa.**

White Wyandotte Cockerels and cocks, scored and unscored, \$1.25 up. Write your wants. **RINNER BROS., NOBLE, IOWA.**

30 White Wyandotte Hens--30 Pullets \$1 each. **Mrs. L. M. Estes, Route 2, Audubon, Iowa.**

Buff Wyandotte Cockerels, bred from show yard strains, for sale. Also a few pullets. **Geo. M. Deyoe, Mason City, Ia.**

LANGSHANS.

Phillips' Strain Langshans BLACK Langshan cockerels as good as ever, but not so many of them. Birds that will score high, and from a strain that has always produced blue ribbon winners. Prices low, considering quality. **C. W. PHILLIPS, NEW SHARON, IOWA.**

Black Langshans of both sexes, for sale. Cockerels—single bird, \$2, or 3 for \$5. Hens or pullets from \$1 to \$2 each. Address **Mrs. Sarah F. McKeen, Sac City, Iowa.**

FOR SALE Black Langshan chickens. Write for particulars. Address **Mrs. E. F. La Rue, Huntington, Nebraska.**

BLACK Langshan ckls. for sale; scored and unscored birds; scores ranging from 92½ to 94½. Write for prices. **H. M. McKeen, Sac City, Iowa.**

ORPINGTONS.

S. C. Buff Orpingtons, both sexes; choice stock from \$1 up. Also a few good cocks. Address **Nettie Crane, Route 1, Blencoe, Iowa.**

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BLACK and W. Langshans. Buff Orp's. R. C. R. I. Reds, Lt. Brahmas, M. B. turkeys, scored or unscored. Prices right. **Mrs. S. B. Newell, R. 6, Audubon, Ia.**

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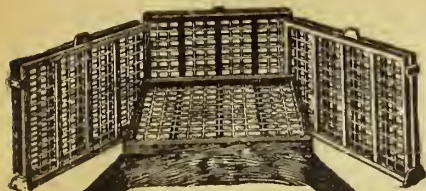
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HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

RABBITS AND APPLE TREES.

The general prevalence of a coat of ice and snow over the ground for a number of weeks past has resulted in a great deal of damage to young orchards. Rabbits, finding their ordinary supply of food covered up, have resorted to apple tree bark to such an extent as to most seriously damage a very large proportion of the young trees in many orchards. Of course, it is not too late to advise the precautionary measures that should have been taken earlier in the season. However, it seems that if immediate action is taken a good proportion of the damaged trees may be saved and some of them with scarcely any backset. Last winter an instance came to the notice of the writer where rabbits had gnawed young trees from the ground up as high as they could reach, with the almost certain probability that the trees had been killed. However, pains were taken to immediately coat the gnawed portions of the trees with beeswax and wrap these with paper and over that several thicknesses of burlap. This was permitted to remain all summer and, in fact, up to the present time. There seemed to be no check in the growth of the trees and to every evidence they are nearly or quite as healthy as those which had not been attacked by the rabbits.

THE SHELTER BELT.

There are symptoms of this being an "old-fashioned winter." December has brought us a lower temperature than any other December in years, and it has been of the persistent variety. Stock seek shelter at all times, except when hunger and thirst drive them out; cattle exposed to the cold winds hump up in their usual manner of showing discomfort; horses find the interior of the barn more to their liking than the open lot, after the first race is over; hogs pile up and squeal if their quarters are not all they should be.

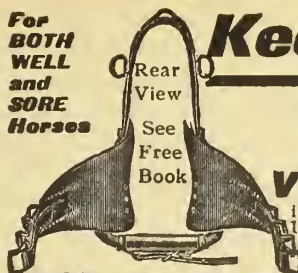
All this brings to mind the tempering effect of a grove around the farm's buildings and lots. The planting of forest trees has not been neglected on many farms, but it has been woefully neglected in some cases, while the planting of evergreens has been neglected on almost every farm. There is no tree that affords the winter protection of the evergreen. An evergreen hedge along the west and north, and if possible, some of the way along the east, is equal to a board fence for shelter. That there are no more evergreen hedges than there are can be accounted for only by the fact that the mind of the farm owner ran to other things to such an extent that he was too busy to "monkey" with tree planting.

A timbered feed lot is more comfortable than a lot on the high prairies provided with a shed, but without tree protection, except when moisture falls. A combination of timber and sheds is the best there is for all stock cattle. Hundreds of farmers are now wishing they had set out a grove ten years ago, but they think little about setting out the grove in the spring to make good a similar wish due ten years hence.

A belt of evergreen trees affords shelter earlier in life than any of the leaf-shedding forest trees. Leafless trees must be thick and tall enough to support many branches before becoming a barrier to the icy winds of the north. An evergreen hedge of four or five rows set in dodge fashion build a wind wall as fast as they increase in height.

The expense of setting an evergreen hedge or grove is not great. Trees may be bought in lots of fifty or 100 at very reasonable rates, and in many sections they may be had for the digging in a natural grove. Well set in the spring and kept well mulched through the summer is about all there is to be said concerning the start. If fenced to keep the dogs away, those lost will be fewer in number. A shelter belt of evergreens soon grows to be a thing of beauty as well as of utility, and adds dollars to the value of the farm.

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Haul a little manure into the orchard. And little, as used in this connection, means a good deal. For an orchard twelve or fifteen years planted, a two-horse wagon load will not be too much for two trees. Trees respond to the application of manure as quickly as any other crop. And anything which increases the vigor and health of the trees, adds to their ability to produce fruit.

For young orchards upon rich prairie soil, manure is not advised, but after ten years of growth, the soil needs re-

enforcement. It was formerly taught as a cardinal principle that a new tree should never be planted where an old one has been removed. But practical men no longer regard this view. They make the old spot rich with fertilizers and plant the trees there just the same. And the tree blooms just as well as any well-planted tree should.

Successful fruit men do not pasture their orchards, neither do they cut and remove crops of hay. Everything which grows upon the surface is returned to the soil.

In the application of manure never pile it about the body of the tree, but spread it out over a surface as large as the spread of the tops. In many cases this will mean covering the whole surface. If you can plow it under when spring comes, that is better. But if you cannot do this, much

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IOWA SEED COMPANY, Dept. D1 DES MOINES, IOWA.

of the nutriment will get down to the roots, through the medium of the spring rains.

If your fruit is poor and small, it is not fair to lay it to the depravity of the tree, or the insects every time, for often it is the lack of fertility which causes failure. Help the tree to do its work, by feeding it liberally.

BELLS IN APPLE TREES.

The Ozark counties of Missouri are becoming famous as fruit growing sections. Their greatest drawback is the late frosts in the spring of the year. During these later days the smudge pot has come into general use. They are lighted and burnt beneath the trees so that the smoke and heat will raise the temperature in vicinity of trees from ten to fifteen degrees.

In the development of the smudge pot, there has been invented a system of alarms to be sounded automatically. These are little bells to be hung in the trees and are made to tinkle by the falling of the temperature, giving alarm to the farmers who will immediately light the lamps to protect the trees.

There is one orchard in Greene county of two thousand acres, containing one hundred and fifty thousand trees. It is called the Hazeltine Orchard. The owners have lately ordered twenty thousand smudge pots to be used in this orchard. Last year experiments were made with smudge pots and it was a great success. So the smudge pot will be given a more thorough trial in the Hazeltine Orchard.

Winter Care of the Wood Lot.

To the Editor of The Homestead:

This is the slack season about the farm and is the time for us to attend to the odd jobs that are quite apt to be overlooked. Let us get after that grove back of the house and see if we can't get it to yield some returns instead of keeping it simply as a wind-break. After grinding our ax we go into the old grove to look it over. All of it was planted at the same time, but why are some of the trees twenty-four inches in diameter while others are only ten to twelve inches? If you will notice the tops of these smaller trees you will see that the crowns of the larger ones are spreading far and wide above them, keeping the sunlight from the smaller. If these trees were left alone the big, healthy ones, with their overshadowing crowns, would eventually kill the trees beneath them, to make more soil room for the more profitable trees. These little trees have been given the same chance as the rest and have produced only one-fourth as much cord wood per acre as the larger ones. These should be taken out of the grove, just as certainly as the unprofitable cow should be taken from the dairy herd.

To begin the work, we go through



GREAT WESTERN

LET US POINT OUT THE MANY GOOD FEATURES OF "The World's Best"

GREAT WESTERN Spreader

This picture shows the front end of the GREAT WESTERN Manure Spreader.

It looks good, doesn't it?

Let's begin at the bottom and tell you more about GREAT WESTERN construction—The front axle is made of cold-rolled steel shafting. Mounted on this is a big, heavy, OAK axle cap, clamped on with FIVE clips. Above the axle cap is securely bolted a great, big, strong, 16-inch MALLEABLE circle, or fifth-wheel, braced front and back with MALLEABLE braces. These braces are bolted solidly to the axle cap and take in the steel axle as well. This makes the front end of a Great Western so strong that you can put on the largest load of wet, heavy manure, and hitch on as many horses as you wish. WE GUARANTEE you can't pull the front end out or break it.

On top of this big 16-inch fifth-wheel, you will see two short OAK braces, and bolted on to them are the two big, heavy, 3x5-inch OAK BOLSTERS.

The big, strong iron brackets on each end of the bolsters weigh 25 pounds each, and the connection with the sills or frame is SOLID.

The Great Western has the only automatic oscillating fifth-wheel made. If one front wheel drops into a hole or a dead furrow, it opens up just like a spring wagon and the body is not twisted out of shape. You can see that this twisting of the frame, going over rough ground, makes the manure bind on the sides of the bed. That means heavy draught.

WHAT DOES THIS MEAN?

The FRONT END of the manure spreader is a VERY important part of the machine, because you pull from it. The spreader always carries a heavy load, and you need the BEST material and STRENGTH in spreading manure on frozen ground, in corn stubble, going across dead furrows, etc. IT NEEDS great strength, doesn't it?

LET US REPEAT—with the GREAT WESTERN construction you can't put horses enough on or load enough on to pull the front end out or break it.

PLEASE REMEMBER that every stick of wood shown in the above picture is OAK, and that the 16-inch fifth-wheel and all braces and clips are the best MALLEABLE—and NOT cast iron.

The Great Western is the "World's Best" today, and all we ask is that you make comparisons, investigate and THINK before buying. Breakdowns with a manure spreader are expensive and dangerous to both the man and team, so you want to buy quality.

BECAUSE of the great strength and proved superiority of the GREAT WESTERN Spreader; because it stands head and shoulders above all cheap imitations and light machines on the market.

We Guarantee Every Great Western Manure Spreader to Have

50 per cent less breakage 50 per cent more strength

More OAK, Hickory, malleable and high-grade steel; 50 per cent more wear and service than any other spreader made.

It's true, that a big-grade machine, like the GREAT WESTERN, built out of the very best material that money can buy, cost more to start with, but it's by far the cheapest in the end. Don't let anyone sell you something that they say is just as good, and charge you as much as you would have to pay for a GREAT WESTERN. Don't be fooled. When you go to buy a spreader, know for yourself what every part is made of. Take your knife and see that the timber is OAK; take your rule and measure the parts; take a sledge hammer and pound the fifth-wheel. It pays big to buy the best.

If you are interested in increasing your crops and building up your farm, please write us to our nearest office for our large free Art Catalogue No. D42. We will gladly post you on what to look for, and what construction means in a manure spreader.

Smith Mfg. Co., 158 E. Harrison St., Chicago

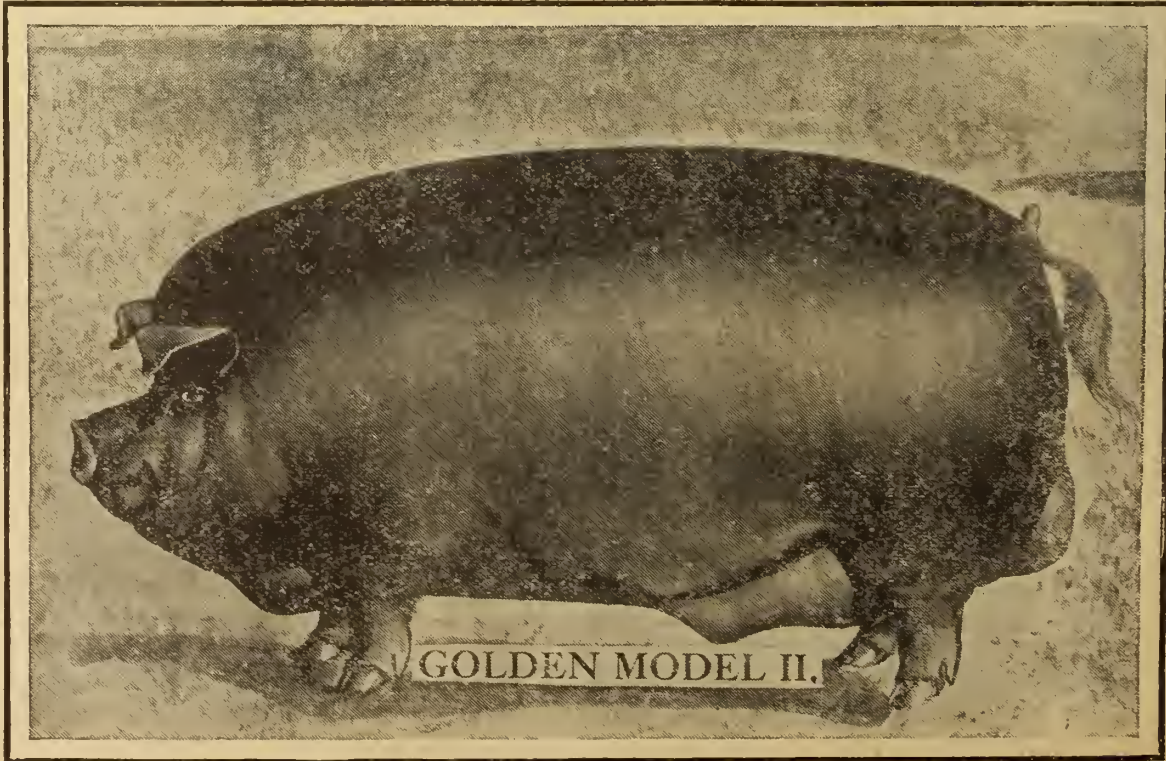
Minneapolis, Minn. Columbus, O. Omaha, Neb. Kansas City, Mo. Indianapolis, Ind.

GREAT WESTERN

the grove and wherever the tops of the trees are crowding each other, we select the tree that has its crown beneath the top branches of its associates. Such a tree usually appears stunted, many of its branches are dead, its bark is quite often scaly or peeling off. This tree we blaze with the ax—that means it is to help supply the cordwood for the cook stove during the following summer.

Many of the soft maples in the grove have several of their upper limbs broken off by the wind, and their tops are rather open, presenting a less thrifty appearance than some of their neighbors. This means that they have become old and will grow

but very little if left in the grove, these we also mark with a blaze. The old cottonwood that had its top broken off by the wind or lightning several years ago, that is slowly rotting in the splintered stem, is also marked for cutting. Crotched trees, crooked individuals, and all trees that are in any way defective are branded with the fatal mark—just as the unprofitable dairy cow is marked for the feed yard. If the grove is a large one we may have more wood to remove than will be necessary to keep the stove going. In that case we had better just mark half of the grove and leave the rest for next winter. Before beginning the cutting of the



Golden Model II., noted prize-winning boar, owned by Messrs. Waltemeyer Bros., Melbourne, Iowa. Many of the offering to be sold at public auction on January 17th are sired by or bred to this noted boar. See advertisement on page 54.

trees, we will save time by making a trip to the hardware man and securing a four-foot, one-man saw, that has a supplementary handle which makes it a two-man saw when desirable. Such a saw need not cost more than \$2.50, and with a man on either end of it, is the most effective means of cutting down the trees and in sawing them into eighteen-inch blocks.

After the trees have been felled and sawn into proper lengths for stove-wood, we next wait for a good, cold day, when the big blocks will crack open straight and clean from one light blow of the ax. Don't attempt this job on a warm day or profanity is liable to result and the job will take a great deal longer. Now we haul the wood to the wood shed, or pile it up handy to the back kitchen door, care being taken to raise the lower layer of wood on two poles to get the air beneath it so that it will dry readily. This job done the grove is healthier and in better growing condition, and the coal bill for the following year has been canceled.

W. G. Baxter.

SEEDSMEN AND THEIR CATALOGS

FREE SPRAYER OFFER.

The H. L. Hurst Mfg. Co., 301 North St., Canton, Ohio, in an effort to help fruit growers who have lost their crops in the last year, have decided to send them spraying outfits on a free trial. No money in advance. The buyers can pay when they are able to. We suggest that our readers write to this company for their free spraying guide and catalog.

KELLOGG STRAWBERRY BOOK.

A recent publication of unusual merit on the subject of strawberry growing is "Great Crops of Strawberries and How to Grow Them," which is presented by the R. M. Kellogg Company, of Three Rivers, Mich., and is advertised on page 24. The fact that this firm has been engaged in strawberry culture for a generation fits it for the preparation of such a book. Not only is the matter given apt, pointed and strictly practical, but the illustrations show what may be accomplished and are highly attractive. The Kellogg farm consists of nearly 250 acres of land, half of which is devoted to the cultivation of strawberry plants. The book named will be sent free of charge to those who write for it to the R. M. Kellogg Company, Box 770, Three Rivers, Mich.

THE OATS PROBLEM.

There is no one crop which is quite as troublesome, all things being considered, as oats. It is, therefore, worth while for every farmer to investigate oats raising at every opportunity. We are glad to recommend as one of the means of accomplishing this end the reading of the "Treatise on Oats Raising," as published by the Peoria Drill and Seeder Company, whose advertisement will be found on page 8 of this paper. The Peoria Drill and Seeder is a tested implement, through the use of which the manufacturers claim they will be able to raise ten bushels more oats per acre than can be done otherwise. Read the statements made

CLOVER

IOWA SEEDS FOR IOWA FARMERS

"PURITY BRAND" CLOVER is free from foul weeds. It is plump 1909 seed, cleaned and tested. You can't buy better. Prices low. Write today.

The Adams Seed Co., Box 1, Decorah, Iowa.

The Great World's Fair SEED CORN

Price-Winning Garden and Field Seeds

WE have the grandest lot of pure-bred seeds ever grown. Also Poland Chinas, Barred Rock cockerels and Scotch Collie dogs. Send now for 1910 catalog; it's full of sensible facts; it's free.

J. D. ZILLER,

The Farmer Seed Grower, Hiawatha, Kan.

DAKOTA GOLD MINE

THE CORN THAT WILL GROW.
THE CORN THAT GETS RIPE.
THE CORN THAT YIELDS BIG.

Adapted for all central states. Ten other kinds. Write today. Circular and sample free.

L. N. Grill Seed Co., Elk Point, S. D.

OATS

NEW SEED OATS. Big money in right kind of oats. Here's your chance. Imported Canadian seed oats, raised on Galloway Brothers' big farm in Canada. New, clean land. Regenerated Swedish Select went 116 bushels to acre; Early New Market 110 bushels to acre. Farmers who bought this seed from us last year raised as high as 75 to 100 bushels in this country, and found out their old seed was inbred and run out. Change your seed. Try some of this new seed. Send for free sample, or 10 cents for large packet. Will also send our free booklet, entitled "Big Money in Oats and How to Grow Them." Galloway Bros., 102 Galloway St., Waterloo, Ia.

SEED CORN

Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped subject to your own test. Send for free catalog. L. C. Brown, LaGrange, Cook County, Ill.

Strawberry Plants THE best varieties. Write for catalog. W. W. Thomas, THE STRAWBERRY PLANT MAN, ANNA, ILL. Rhubarb and Asparagus roots



\$500 in Gold Given Away

Name This Corn and You Get \$500.00 in Gold! Said a prominent agriculturist: "Salzer has startled the agricultural world in discovering a most remarkable breed of corn—the largest mortal eye ever saw!" The new corn will not be on the market, however, for a year. There is not enough in existence to fill the heavy orders that would soon pour in. Only sample packets of this precious cereal can be obtained now. Meanwhile, the important question, what to name it, will have to be answered.

Mr. Salzer's novel plan is to offer, absolutely free, \$500 in gold to the person who names this new corn. "Tell my farmer friends," he says, "that I am willing to give five hundred dollars for a name suitable and characteristic of my great corn."

Send Now For Sample of This Great Corn—Then Name It

Now, somebody is going to win, and that "somebody" might as well be you. All you have to do is offer the name that best suggests this very finest breed of corn. That name may seem quite common-place, but if it fits, you win. Begin thinking up this name now! If you succeed, you will be richer by five hundred dollars; if you do not, you are not out a penny—and you will have received generous sample of this "Nameless" Corn big enough to grow a half bushel of seed.

The Judges

Hon. John J. Esch, Congressman for Wisconsin; Prof. R. A. Moore, Wisconsin Agricultural College, Madison, Wis. and Hon. Robert Calvert, U. S. Customs, LaCrosse, Wis., all prominent men, will act as judges. They are not only men of integrity, but of keenest judgment, as well. The name you offer will be sent to them when it comes to us. They will choose a name without knowing who suggested it. Contest closes in a few weeks. Every seed buyer, regardless of age, sex or residence, has an equal chance.

TO ENTER THE CONTEST—Write for sample packet of "Nameless" Corn. Enclose two 2c stamps. (You will receive with the Sample Packet and our Mammoth New Seed Book, a FIVE CENT CASH COUPON worth face value when you purchase 25c worth of Salzer Seed). Examine "Nameless" Corn; its remarkable appearance will at once suggest a striking name! You will be promptly notified, and the money delivered to you, should the judges decide your way. If you suggest the same winning name that somebody else does, you get the prize anyhow if your letter is postmarked first. So get your "Nameless" Corn Sample at once and be ready to win the Big Prize.

Salzer's Farm Seed

The age and foremost standing of the great Salzer Seed House need no mention. Through 35 years of hard, intelligent work, John A. Salzer became the leading Seedsmen of the United States. His fixed policy of giving a dollar in seed value for every dollar received has made his House famous. It established his reputation for reliability. 35 years of increasing patronage, without a disappointed customer is a record seldom equaled.

Try this year Salzer's Wonderful "6 Weeks" Potato! Earliest variety known; brings top market prices. See page 126 of the Salzer Seed Book. On pages 101-102 will be found full particulars regarding the prize of 160 acres of Wisconsin farm land that Mr. Salzer offers for the largest yield of White Bonanza Oats during the season of 1910. Better send for a copy and see what he has to say about it. Brimful of rare, heavy-yielding Farm and Vegetable Seeds—140 big, interesting pages on Farm Seed, Plants and Tools. Let it be your helpful guide in selecting every kind of reliable, fertile farm seed you want. It is FREE. Send 4c in stamps for Corn Sample and enter Contest.



JOHN A. SALZER SEED CO. 124 S. 8th St. LaCrosse, Wis.

Burpee, Philadelphia, Burpee, Philadelphia

Seed Catalog—provided you intend to have a garden this season. A book of 178 pages with colored plates painted from nature. It tells the plain truth about The Best Seeds that Grow. We have the Largest Mail-order Seed Trade in the World and it is sufficient to address simply

may be had by enclosing two red stamps for each sample. For the book named or any other information, address Ratekin Seed House, Box No. 387, Shenandoah, Iowa.

\$500 FOR A NAME.

The John A. Salzer Seed Co., La Crosse, Wis., are offering \$500 in gold for a name of a new corn. In the language of prominent agriculturists, "Salzer has startled the agricultural world in discovering a most remarkable breed of corn—the largest mortal eye ever saw." The corn will not be on the market, however, for a year. Sample packages only may be obtained. The important question now is to find a name for it. Mr. Salzer offers absolutely free

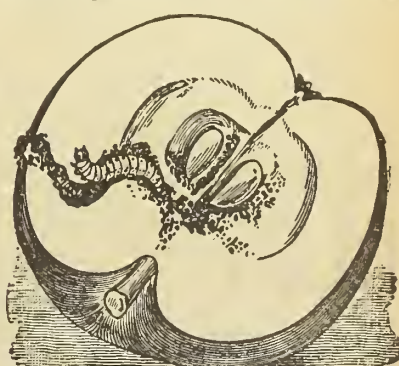
\$500 in gold to the person who names this corn. Look up the very interesting advertisement of the John A. Salzer Seed Co., 124 S. 8th St., La Crosse, Wis., on this page and read about the offer.

GUARANTEED SEEDS.

The publisher of this paper has long felt that some seed company should take the initiative and guarantee their seeds. We are, therefore, pleased to advise that the A. A. Berry Seed Co., Clarinda, Iowa, have decided to give their customers a binding guarantee that their seeds will grow. Full information with reference to their guarantee, and the company's 100-page free catalog of field and garden seeds will be sent upon application. There has been a general feeling among the farmers of the corn belt for years that they should have some protection in buying seed. Much seed of low germination has heretofore been sold, and the seed buyer is nearly always in doubt until he sees the plants come above the ground. Write to the A. A. Berry Seed Company, Box 203, Clarinda, Iowa, whose advertisement appears on page 23 of this issue and secure full information about their liberal offer.

RAISING PERFECT FRUIT.

Conservation is such a popular word these times and is so apt in its application to the purpose that we feel we would fail in our duty to our readers if we did not urge upon them the need of conservation of fruit qualities. This means that the way, and the only way, to be assured of perfect fruit is to adopt a system of spraying through the season, which shall at once destroy insect life which is responsible for damaged fruit. Codling moth, canker worm, fungus and numberless other forms of insect and parasite life attack the trees



through the bloom period and their effects are seen through the entire fruiting term. Spraying is best done with such sprays as those manufactured by the William Stahl Sprayer Company, whose advertisement appears on page 23. This company also publishes a valuable little booklet which, in addition to being a catalog of their goods, gives a large amount of necessary information on the subject of spraying and spraying compounds. Copy of this will be sent free to those who send a post card to the William Stahl Sprayer Company, Box 103A, Quincy, Ill.



Duchess of Limavady 13204, one of the Clydesdale mares imported and exhibited by Messrs. McLay Bros., of Janesville, Wis. She was a first-prize winner in Scotland and has been considered one of the very best mares ever sent to America. She was sired by Flash Sturdy, that was by Prince Sturdy, a son of Cedric, a winner at the Highland and Royal shows. Cedric, it will be remembered, was a son of Prince of Wales. Both sire and son were famous horses and known throughout the entire Clydesdale world. The dam of the McLay horse was Duchess of Dungenby by Lord Glenelg, also a grandson of Prince of Wales. Duchess of L. was shown at the last International and in strong competition was placed in fourth position, although many experts considered her perfectly qualified for first or second premium. For further particulars concerning the McLay stud see page 63 or write Mr. James Z. McLay, Janesville, Wis.

VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

REMOVING BOTS.

(1) Will you please give me a remedy for removing bots from a horse's stomach, as I have good reason to believe that bots cause heaves in horses. (2) I have a Poland China hog, eighteen months old, which was all right and in good order until one morning about two months ago, following a thunderstorm, when he acted queer. He seemed somewhat blind and deaf and any noise would startle him and he would start off suddenly and perhaps roll clear over. On regaining his feet, after getting steady, he could stand, walk and eat all right except that his tongue and jaws seemed to be stiff as though partially paralyzed. His appetite has always been good. He was a boar at that time, but has since been castrated. He is gradually getting steadier on his feet and less nervous; has had no medicine, his feed consisting of slop of ground rye and barley with milk and water, also a few ears of corn daily. I am feeding him light with a view of getting him back to normal, then fattening for meat and lard. Do you think there would be anything harmful about the meat, making it unfit for use? Can you give a remedy which would be of benefit?

(1) Bots do not cause "heaves," neither do they cause any appreciable disturbance in the horse's stomach. They may be found in the stomach of every horse that has been pastured. It is not necessary to attempt their removal and no drug strong enough to kill them in the stomach can be given without killing the horse. We have had bots live ten days or more in a strong solution of formaldehyde and they also will live for some time in absolute alcohol. (2) The meat will be fit for use if the hog is in good flesh. Medicine will not hasten recovery. Leave the case to nature.

SWELLING.

I have a gray mare four years old that got kicked on the hind leg two weeks ago. It is on the outside of the hock joint on the large tendon. The joint is not injured, neither is there any lameness, but it shows so much there that I would like to get it removed. I suppose it would be called a puffed sinew. If you can let me know anything that will take it away, I will count it a great favor.

Clip off the hair and very thoroughly hand rub the part twice daily and each other day rub in a bit of 10 per cent oleate of mercury lightly. If that does not suffice try painting it with tincture of iodine each other day until the skin becomes irritated; then stop for a time, but repeat when the condition of the skin will allow.

TESTING FOR TUBERCULOSIS.

(1) Can the dairyman do his own testing for tuberculosis? (2) How much per head should a veterinarian receive for the test of cows? (3) How long before and after a cow is fresh is it best to test her? (4) Is there less lime in the bones of a tubercular animal than in one not affected? (5) If one gland is diseased, are not all the glands similarly affected? (6) How long does it take the system to decline in strength

Don't Have a Blind One

"VISIO"
Wonderful
Discovery



DISEASES of the EYE
successfully treated with
this NEW REMEDY.

AN ABSOLUTE CURE

for Moon Blindness, (Ophthalmia), Conjunctivitis and Cataract, Striking horses all suffer from diseased eyes. A trial will convince any horse owner that this remedy absolutely cures defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO," use it under our GUARANTEE; your money-refunded if under directions it does not effect a cure. "YOU PAY FOR RESULTS ONLY." \$2.00 per bottle, postpaid on receipt of price. Visio Remedy Ass'n., Dept. D, 1933 Wabash Ave., Chicago, Ill.

LUMP-JAW

positively cured in less than 3 weeks with one application of—

ADAMS
Rapid LUMP-JAW Cure

Easy method, little expense, no pain or scars. Written guarantee with each bottle. REMOVAL—Beats "Em All" for Sprains, Curb, Bog Spavin, all lameness. Sold on money-back guaranty. Free—Treatise on curing animal diseases. Write for copy today.

H. C. ADAMS MFG. CO.
Dept. 14, Algonia, Iowa

KENDALL'S SPAVIN CURE

The Remedy You Can Depend Upon

No other preparation has done as much for the horse and horsemen. Kendall's has saved millions of dollars in horse values for thousands of owners during the past 40 years. It is the quick, sure, safe, dependable remedy for

Spavin, Ringbone, Curb, Splint, Swellings, Cuts, Sprains, Bruises, all Lameness

\$1 a Bottle—May Save Hundreds

CURES SPAVINS, CURBS, SPRAINS, MAKES CHEAP HORSES VALUABLE
Galen, Mich., Jan. 6, 1909.

Dr. B. J. Kendall Co.
Dear Sirs: I hesitate no longer in buying horses with Spavins or Curbs, in fact with blemishes of any kind, for I know what your medicine will do. I always make a handsome profit buying such horses cheaply, cure them up with your medicine, and sell them for a grand price. Your medicine can't be beaten.
Respectfully yours, J. S. HAAS, (R. R. No. 2)

WONDERFUL FOR MAN AND BEAST
1317A Kentucky Ave., St. Louis, Mo., Apr. 23, 1909.
Dr. B. J. Kendall Co., Enosburg Falls, Vt.
Dear Sirs: In regard to your Spavin Cure, I must say that it is one of the best medicines that was ever put on the market for sale. I have been using it for the last three years in my stable, and find it one of the best I ever tried for every kind of lameness or sore. It is a wonderful remedy for man or beast. I advertise your remedy every time I have a chance, because I know what it will do.
Yours truly, HUGO KING.

ALSO FAMOUS AS A FAMILY REMEDY

Accidents will happen and the greatest "First aid to the injured" is the old standby, Kendall's Liniment. Sold by druggists everywhere at \$1 a bottle, 6 for \$5. Prepare today for the emergency of tomorrow. Stop at the druggist's and be sure you get Kendall's. Ask for a copy of "A Treatise on the Horse and His Diseases," or write direct to

DR. B. J. KENDALL COMPANY, - ENOSBURG FALLS, VT.

so it will not resist the germs? (7) Is not the tuberculosis germ as active in butter as in milk?

(1) The tuberculin test should be made by a graduate veterinarian. (2) Charges vary and we cannot say what your veterinarian will charge. It will depend upon how many cattle have to be tested and how far the veterinarian has to travel to do the work. (3) A month before calving and two weeks after calving would be safe. (4) Not necessarily. (5) No. (6) The disease spreads slowly in a well-fed cow that is stabled in a clean, ventilated, light barn and allowed plenty of outdoor exercise. It may spread rapidly under the opposite conditions and circumstances. No definite statement can be made as to the exact time necessary for the spread of the disease through the body. (7) No.

SCALY CALVES.

I have some little calves and they get scaly around the eyes. I feed them oats and hay night and morning and I also give them a little shelled corn sometimes instead of oats. Could you tell me what to do for the calves?

The disease is ringworm due to a vegetable parasite which also lives on damp woodwork, walls, fences, etc. Clean up, disinfect, ventilate, light and whitewash the stables. Scrub each scaly spot clean and when dry rub in iodine ointment each other day. See that it does not get into the eyes.

TUBERCULOSIS.

I would like to know whether the meat of a cow we butchered is fit to eat. She was in good condition, but when we cut her open one lung was all right and the other one was hard and red on the outside and filled with snotty matter.

The lesions point to tuberculosis, as the disease affecting the lungs and the flesh of an animal so affected would not be fit for human food. It would be best, however, to have an examination made by a local graduate veterinarian, as one cannot be sure what was the matter without making a personal examination.

STERILITY.

I have a bay mare six years old that raised a colt one year ago last spring, and I had her bred three times the same season without success, and had her bred five times last spring and still she is not in foal. Is there anything I can do to get her in foal? She has never been sick and seems to be healthy and in fair condition.

If the mare has normal periods of heat she should conceive when bred if there is no mechanical obstruction present. It would be well to open the mouth of her womb when she is in heat and then have her impregnated by means of a capsule or the impregnating syringe.

TUMOR.

Will you please let me know what I can do for a cow that has a large raw lump on her shoulder, about twice as large as a man's head? It is a nasty looking thing with a very bad smell. When I first noticed it it was about the size of a hen egg.

I did not think much of it, so opened it, and ever since it has been growing and running. The cow seems to be in good health and looks good.

Employ a qualified veterinarian to remove the growth by dissection and then cauterize the wound. It will not return if it happens to be a simple tumor; but it may be malignant and cancerous and in that case it will grow in again and be accompanied possibly by many similar tumors (metastatic) internally and elsewhere on the body.

THRIFTLESS PIGS.

I have thirty August pigs that never thrived. They run out all the time and have lots of separated milk. They cough a great deal and would not weigh twenty-five pounds each, yet. I would like to know what to do for them.

Feed the pigs on slop of milk, middlings, oatmeal, bran and corn meal and mix limewater freely in the slop once a day. Also sprinkle some shelled corn for them to root for under litter on a shed or barn floor. Give them a dry place to sleep. If cough continues lung worms may be suspected and there is no certain remedy for these pests. Turpentine may be mixed in the slop at the rate of one teaspoonful for each eighty pounds of live weight of pigs and fed three mornings in succession and again the following week.

ABSCESSSES.

Will you please tell me what to do for a cow seven years old that has a bunch under her ear as large as a goose egg, and one right under her ear back of the jawbone that is about twice as large as the one on the other side? Would it be all right to lance them? They have been coming on for about three months. About a year ago she was tied up with a rope halter, which she fought. Would that be the cause of it? She has not been hurt any other way that I know of. She is with calf and apparently doing well.

We suspect that the enlargements are filled with pus and so are abscesses possibly due to bruising as suggested. But such abscesses also may be due to tuberculosis or actinomycosis, hence it would be wise to have an examination made by an expert veterinarian. It is likely that he will open the abscesses and make an examination of the pus to decide its true nature. Actinomycosis (lump jaw) is curable; tuberculosis is incurable and may easily be determined by testing with tuberculin.

BULLNOSE.

I would like to know what is the trouble with my hogs. I have about 100 head and there are about a dozen of them that have something wrong with their noses. They begin to sniff around and their noses will shrink and turn up and they finally stop growing and turn into runts.

We suspect that the disease is "bullnose" or "snuffles" which is incurable. In this disease the bones of the snout become distorted and enlarged and press upon the air cham-

You Can't Cut Out

A BOG SPAVIN, PUFF or THOROUGHPIN, but

ABSORBINE

will clean them off permanently, and you work the horse same time. Does not blister or remove the hair. Will tell you more if you write. \$2.00 per bottle at d'l's or d'l's d. Book 4d free.

ABSORBINE, JR., for mankind. \$1 bottle. Reduces Varicose Veins, Varicose, Hydrocele, Ruptured Muscles or Ligaments, Enlarged Glands. Allays pain quickly. Horse Troubles.

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Heave, Cough and Distemper Cure.
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Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail, \$1.00.

HORSES

Going Blind, Bary Co. Iowa City, Ia. Can Cure.

bers of the nostrils and head so that breathing becomes difficult. It is associated with rickets in some cases so that the hogs are lame and have enlargements of the limbs. Affected animals should be destroyed. Outbreaks of the disease show the need of using new boars and cleaning up, disinfecting and whitewashing the pens. Lime-water should be freely used in the slop and corn fed lightly to young growing animals and breeding stock. All hogs should have abundant exercise in the open air. We cannot determine whether or not the disease is present, hence a qualified veterinarian should be employed to make an examination.

SICK CALVES.

I would like to know what is the matter with my calves. They keep getting poor and their hair looks rough. They finally take staggering spells and fall down repeatedly for about a day and have the scours at the same time. They run at the nose, their eyes look dull, and finally they get

down and cannot get up. They double their legs up and bellow and strain as if in great agony. They only live about three days after the first staggering spell and about the time one dies another gets in the same condition. I have been feeding them alfalfa and clover hay with no grain. The hay is fed in a hay feeder in the barn where they can get it when they want it.

Indigestion and especially stoppage of the bowels, caused by the feeding of bulky, coarse food without succulent food is the probable cause of the losses reported. Feed the calves a proper ration of bran, corn meal and flax seed meal. See that they get plenty of water and, if possible, provide a succulent food such as roots, or good silage will do. If calves are quite young, give them skim milk three times a day and in it mix flax seed jelly. If they then have indigestion mix limewater freely with the milk. Lessen the amounts of roughage fed.

INDIGESTION.

I have three young colts born last April which are in good condition, but have such a craving to eat old pine boards that they will chew and eat wherever they can find them. When weather permits they run in the fields in daytime and nights are in the barn. I feed them twice a day, one gallon to the three, of each shelled corn and barley. They were weaned in September. I have given them salt peter and copperas, but it did no good. Hope you can tell me what to do.

Stop feeding barley and let the corn form one-sixth of the ration along with whole oats and bran. Allow free access to rock salt. If the craving continues mix in the feed twice daily a dessertspoonful of a mixture of equal parts of powdered wood charcoal, salt, powdered gentian root and bicarbonate of soda.

RINGBONE.

Will you let me know how to cure a horse of ringbone? I have a roan mare seven years old that has a ringbone on her left hind foot, close to the hoof. She goes lame and stands on three feet. I have tried two doctors, but they haven't helped her. I had some red salve to rub in it every two days, but it did not help, so I tried another doctor and he gave me a recipe for some liniment, which I got and rubbed in every day, but it hasn't helped. I would like to have a doctor blister it, but I would have to go forty-three miles to find one. Can you give me a remedy through your paper?

Were it possible to employ a graduate veterinarian it would be best to have him puncture-fire and blister the ringbone and then allow the horse six weeks' rest in stall. As you cannot have this done, then clip the hair from the ringbone, tie the horse up short in stall so he cannot lie down and then blister the ringbone every two weeks by rubbing in for fifteen minutes a mixture of half a dram of biniodid of mercury and one ounce of cerate of cantharides, which you can buy from the druggist. Wash the blister off in three days, then rub in a little lard daily. It may be necessary to blister the ringbone three or four times and we cannot guarantee that the lameness will subside without firing the part.

POISONED HORSES.

I have six head of horses that I put in twenty acres of corn stalks only one day. In the evening when they came into the barn they were all sick. They were dull and seemed to be stiff. One mare in foal was worse than the rest. My son drenched her. They were in the stalk field yesterday and he says she seems to be resting easy, out will not eat or drink this morning, and the rest only eat or drink a little. Will you give me the cause?

The horses ate poisonous matters in the corn stalk field. Cattle often are killed by so-called "corn stalk disease" and horses may be similarly affected. In some cases poisoning has come from large quantities of salt peter in the corn stalk joints, in others bac-



SAL-VET



Stops Losses From Worms

Keep your stock in prime condition. Do away with losses and increase your profits. The worst enemy of stock is **Worms**. They eat the food that should strengthen and fatten stock—they eat up your profits. **SAL-VET** is a scientifically medicated salt that is easy to feed and costs little; only one-twelfth of a cent a day for each sheep or hog and one-third of a cent for other stock.

This powerful remedy not only destroys worms in your stock, but it acts as a tonic and conditioner. It goes direct to the worms—kills them—expels them, fitting the animals' stomachs and intestines to perform their proper functions, so that what the animal eats will make profit for you. **SAL-Vet** will positively prevent parasitic infection.

At marketing time every pound that you can add to your cattle, sheep or hogs is just so much more money in your pocket. You know that it is almost impossible to fatten stock if their digestive organs are out of kilter, or if they have worms.

Your stock is now on dry feed—**SAL-Vet** will stimulate their appetite—aid digestion and keep them healthy, vigorous and worm free.

Weight in stock is not due to the amount of feed they eat, but to the amount they digest and assimilate.

PRICES:—40 lbs. \$2.25; 100 lbs. \$5; 200 lbs. \$9; 300 lbs. \$13.

Don't Send Any Money

We will send you enough **SAL-VET** to use for 60 days. Don't pay us if it fails to do what we claim.

Just fill in the attached coupon and tell us how many head you own and we will send enough **SAL-Vet** to feed them for 60 days as above. Fill in and mail the coupon now.

CUT OUT—MAIL TODAY
S. R. Feil Co., Cleveland, O. Send me enough **SAL-Vet** to feed my stock 60 days. If it does what you claim I will remit. If not you are to cancel the charge. Jan.—1. H.

THE S. R. FEIL COMPANY
Dept. 1. H. CLEVELAND, O.

What Geo. Allen, of Lexington, Neb., Says of "SAL-VET"

From one of the most prominent live stock authorities.

I have used "SAL-VET" for over a year and ever since then my lambs have been absolutely free from worms. I attribute their satisfactory condition to the "SAL-VET," which I keep before them all the time. I heartily recommend "SAL-VET" to all sheep and hog men.

(Signed) Geo. Allen, Lexington, Neb.

teria have been the cause, while others have found poisonous matters apart from the corn stalks. In one instance cattle were poisoned by wild mustard which had ripened in a corner of the stalk field where the corn had been killed by flooding and the part had afterward grown up to weeds.

INDIGESTION IN STEERS.

We have lost four steers this winter, caused by indigestion, as we have proven by examination. As we have not had any cases before this winter, we don't know what causes it. This year the corn is somewhat frozen and not sound. We feed good hay and salt cattle regularly. We would like to have your treatments as soon as possible.

You do not say what the steers were eating at the time, nor do you describe the symptoms they showed when sick. It consequently is impossible to give a confident opinion or prescribe intelligently. If the steers were going on corn stalks they may have died of so called "corn stalk disease." Frozen or frosted corn which has fermented or molded may also prove poisonous and in both cases poisoning rather than indigestion would be the cause of death. In indigestion there is bloating, loss of cud, weakness, stoppage of the bowels and death. At the outset of such an attack a full dose of physic should be given such as a pound and a half of epsom salts, a cupful each of salt and molasses, half an ounce of ground ginger root and three pints of warm water as one dose. In emergency cases a few drops of croton oil may be added to the drench to make it more effective. A veterinarian should be called in to give further treatment. Other steers should be fed so as to prevent the attacks.

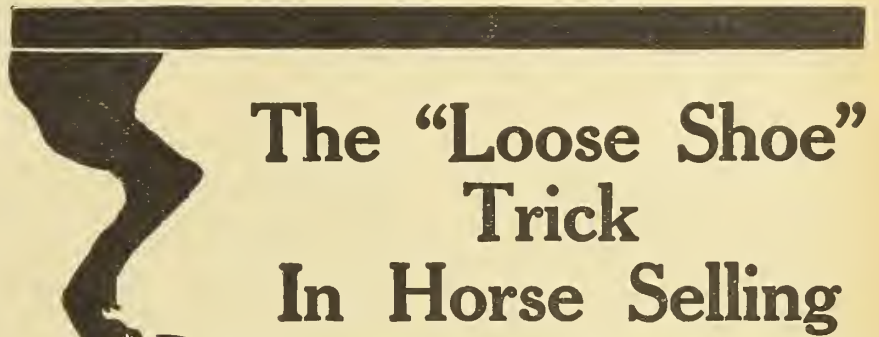
LAMENESS.

I have a sorrel mare coming nine years old, weight 1,500, that got lame in her left hind leg last August. She likes to carry the leg while standing in the barn, and lifts the leg as high as she possibly can. When traveling she hits the ground with the toe first and she can hardly lift the leg over a 2x4 when out of doors. I have seen a veterinarian about her and he told me to blister her on the cord that goes from the hip down to the stifle, but it did not do any good. He then told me it was a spavin and I have blistered her now twice on his advice, but she is getting worse instead of better. She is getting poor, although I feed her ten ears of corn a day and good bottom land hay. She has a good appetite and seems to feel good. Three years ago she had a wire cut on the right hind leg and she was standing on three legs for almost a month. Do you think that is the reason for her lameness now? Please tell your opinion and cure, if any.

Have the mare examined by another graduate veterinarian who may find that there is an occult spavin or a ringbone present. It seems likely that a spavin may be the cause of lameness, but an examination would be necessary to determine that. If it is a spavin the veterinarian should fire and blister the hock joint and then the mare should be kept tied up in stall for at least six weeks.

CHEAP HOG FENCE.

The character of the present winter has demonstrated the fact that it is good economy to have every farm fenced hog tight. The question then remains of what is the best fence. This is answered largely by the announcement of the Interlocking Fence Company, of Morton, Ill., who are selling a twenty-six-inch hog-tight fence for fifteen and three-fourths cents per rod, a thirty-four-inch fence for twenty-one and one-half



is a mighty plausible way to account for lameness and a bad gait. It is just one of the scores of tricks that the "gyp" or dishonest horse-trader has up his sleeve to deceive the unwary buyer. There is one way to fool these tricksters and to beat them at their own game. That is to know the tools they work with—the dodges they use—and how to detect them.

We Will Tell You These Horse Secrets

We offer you a book that fully arms you with this knowledge that will save money to any man who buys, trades or sells horses.

"Horse Secrets," a practical book for the horse-owner—just off the press, written and compiled by Dr. A. S. Alexander, Head Veterinarian of the Wisconsin State Agricultural College, turns broad daylight on the trickster's secret methods.

It tells you how the dishonest dealer "fixes" a horse to conceal the heaves, lameness, spavin, broken wind, weak eyes, deafness, poll evil, scars and bad habits. Gives the secrets of "shutting a 'heaver'" and of "plugging a 'roarer,'" and how to detect them.

Secret of "bishopsing"—doctoring a horse's teeth to make him appear young; the secret of artificial plumpness and how to detect it. Turpentine and gasoline tricks—cocaine doping for lameness; and scores of others.

Besides these secrets, the book contains a wealth of vital material about how to raise a horse from a foal by the best methods of feeding and conditioning.

Gives Dr. W. J. Kennedy's secret of fattening young draft horses for market in quick time at small cost. Dr. W. H. Dalryple's secret of molasses feeding for horses.

Secret of silage feeding for stallions, mares, geldings and colts. Secret of curing various vices—balking, halter-pulling, stall-kicking, tail-switching, cribbing, etc. And a complete list of market terms and horse slang with meanings. And a list of authorized stud books endorsed by the Government. Note our

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It is the Standard Publication for the Farm and Home—30 years young.

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HERE is the farmer's road to bigger profits—this year and every year. The illustrations speak volumes for themselves. But look at the PROOF—and I've got even better than that for you. Corn—corn and more of it means cash. Cash and more of it—as much as a quarter more of it in profits if you'll take the experience of thousands of farmers who are writing me like the letters below—the first PROOF. With Corn—or any kind of grain, or crop; no matter where you live, or what your farm is like, it's the same story, if you'll take the

advice of the most successful farmers in the country today. Take their advice—I don't ask you to take mine alone. Here is my share—what I'll do for you. Here's the second PROOF—I'll give you 12 months to prove out these facts if you'll write me a postal. You can start at once at my risk for 30 days. But I'll first prove to you, by hundreds of letters like these below, just what you can start and do right now to make the most money on your farm this year—for 12 months from now and on into 1911 and year after year if you'll do it.

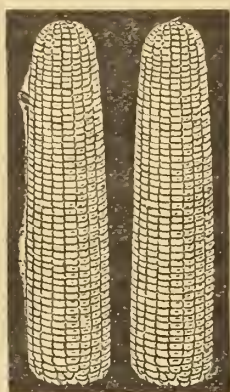


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President
The Farmer's Manufacturer

The Difference Between Manured and Unmanured

1. Big Bumper Corn—25 more bushels per acre. Figure it up 50 cents a bushel and see how quickly you pay for a Galloway Spreader and how much you'll make besides.

2. This stalk is only 34 size. In a corn field where a Galloway is used you can go out and see the mark (by bigger corn) left where the spreading stopped.



3. Here are the kind of champion ears grown on Galloway Manure-Spread Land. It's just as much a waste of money to leave your manure in a pile as to throw your crop away.

4. I am Telling a Million Farmers About This and I'm Going to Prove It to Them—and to You.

My New Clincher Proposition To You

Here is how to make the extra money. First. Get your name in to me. Don't wait until tomorrow. Do it even before you start out to do your chores. Second. Pick out from my Big Galloway Manure Spreader Catalog, which I'll send you free, any spreader you want out of my big line of five different styles and sizes including my Complete Steel Truck Spreader.

Third. Here is the new part—and I repeat it again in full. If at the end of twelve months after you order a spreader, it isn't a paying investment to you, I will pay you back your money and you send me back my spreader. How's that for a proposition? Could I do it if I didn't have the spreader and knew what I was talking about? No—never in the world.

Could I keep on advertising and selling these spreaders by the thousands if they were not head and shoulders better than anything else? Ask the editor of this paper what he found out.

There are just two things I want to impress on

you. If you do these things I can make you money: First, get that postal card in to me, and then, second, prove for yourself that the Galloway Spreader is the best spreader ever made by human genius. Forty thousand farmers have already stamped their O. K. on it. That ought to be proof enough.

The concern, whether manufacturer, mail order house, agent or dealer, who says anything contrary to the merits of the Galloway Spreader, are either ignorant and don't know what they are talking about or are deliberately lying and misrepresenting our goods. Whose word would you rather take? The word of forty thousand farmers who have tried my machine or the word of some dealer or agent, who will simply say anything that comes into his mind, because I stand between him and a profit of from \$25 to \$30?

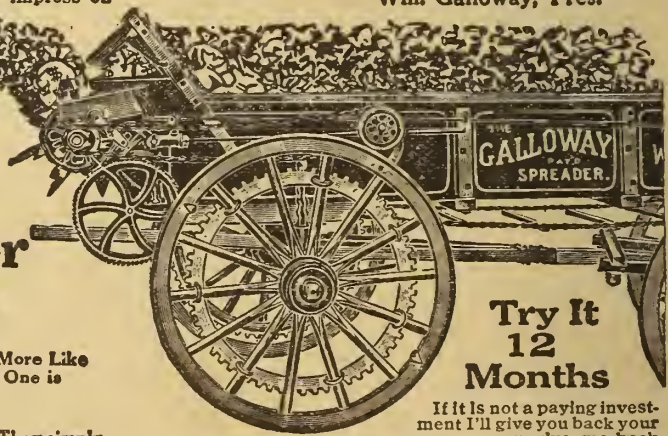
Send postal today and get my new, personally signed proposition.

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Further Proof

Have in My Office Thousands More Like These. \$1,000 in Cash Paid if One is not Genuine

I Have Never Met Any of These Men, They simply Saw My Advertisement and Ordered



Try It 12 Months

If it is not a paying investment I'll give you back your money; you give me back my spreader.

Is It Light Draft?

T. F. Stice, Oswego, Kans. "Often pull it with my small buggy team. Does good work. Have always used the Galloway much the best. If going to buy a dozen more they would all be Galloways." C. Carlson, Haddon, Kans. "Loads handler than big four horse machine. All I need is plug team and 16 year old boy." J. W. Ramsdell, Sandusky, Ohio. "My two horses of 1100 lbs. that play to run the Galloway, while other manure spreaders make three or four horses pull hard." W. K. Neeley, Wayne, Nebr. "A success in every way. Used different spreaders. Like wagon box best. Lighter draft, can haul with two horses. Put it on any old wagon."

Does It Need Many Repairs?

Fred J. Bowen, Longford, Kans. "It has never cost cent for repairs or minute's trouble. Hauled all kinds of manure." Edward Anderson, Niagara, N. Dak. "Not given me a bit of trouble. Hauled out 300 loads." James W. Anderson, Leonardville, Kans. "There is nothing to get of place or wear out." John J. Houtz, Merwin, Mo. "Tried my best to break or clog it by overloading. It did the work as represented." W. W. Banfield, Paradise, Kans. "There does not seem to be anything to wear out about it. Have not been out sets for breakage." T. J. Oban, Loyalton, S. Dak. "Used it two years. Never broke a nickel's worth."

How Does It Compare With \$125 Spreaders?

Hans M. Johnson, Parkston, Minn. "I would not trade my Galloway for any \$125 spreader I have ever seen." Garret Mathias, Mathias, W. Va. "It is worth two of the—A \$135 machine. Couldn't think of changing even." C. C. Johnson, Morrison, Mo. "The—Isn't in it with the Galloway."

G. A. Entz, Newton, Kans. "It spreads evenly any kind of manure with two horses as good as any \$125 spreader with four." Ewaldt Redman, Wanatah, Ind. "Your spreader certainly proved what you said. We tried a—spreader last spring. Couldn't do anything with it. It cut down eight inches and three horses couldn't pull it."

J. A. Gilmore, Waterloo, Ill. "Used it this winter when others couldn't use their spreaders." Theo. Blanke, Lawrence, Nebr. "I can haul as much manure with it as any \$125 spreader."

Does It Come Up to All Our Claims?

John J. Houtz, Merwin, Mo. "Used hardest kind of feed for manure. Tried best to break or clog it by overloading and placing load to disadvantage of spreader. Found it did work as represented. My entire satisfaction. Hauled 265 loads without breakage or trouble." J. V. Bradley, Rockville, Mo. "Found it exactly as represented."

A. C. Courtney, Ackerland, Kans. "Will do all that Wm. Galloway says and more. Would not purchase any other kind." Herman Walker, Avon, S. D. "You can't recommend it too high. It is all you say it is in catalog."

James Munro, Patterson, N. D. "The minute I saw your machine work I knew it was all and even a great deal more than you claim for it. Neighbors who have seen it claim it is the best they ever saw. Force feed simply immense. Leaves nice clean bottom."

Peter Boysen, Schleswig, Iowa. "Got my horses on a trot. Slammed it in gear. Failed to break machine. Test enough for me. Would not trade mine for any other make for three reasons. 1st. Cost only half. 2d. Get strong set of running gears at low price and still save \$20 on whole outfit. 3d. Can use spreader with two horses and use running gears whenever desire."

Is It a Money Maker?

W. H. Cress, Spaulding, Iowa. "Best investment in farm machinery I ever made."

M. B. Sparlin, Seneca, Mo. "Spreader all right. Would not sell it for ten times what it cost if I could not get another." J. A. Hush, McCune, Kans. "Hauled 100 loads last winter. My hay made double. Think it will pay for itself in one year. 50 loads to haul out a year. Can't beat Galloway for good work and wear. Price is right."

J. W. Carter, Amite, La. "By using spreader you do more work, haul more loads and increase value of manure three-fold. On my 140 loads saved \$140 in labor and increased value over hand spreading."

D. M. Miller, Warrensburg, Mo. "Would not give it for all commercial fertilizers you can scratch up. It works to a T. Draft is light. Fits any wagon. Will pay for itself in one year." J. B. Baker, Rushville, Nebr. "Potatoes top dressed. Made nearly 25 bu. to the acre more than those not top dressed."

S. J. Woodring, Chester, Okla. "Have \$1000 worth of machinery. Your spreader is best tool on the place."

How Does It Work?

Ralph Hovis, Clintonville, Pa. "Was agreeably surprised with the thoroughness with which it did its work." John Kasmer, Shawnee, Okla. "It is a master in its line of work."

E. Dolle, Jr., Seguin, Texas. "Have spread wet and dry, rotten millet and corn stalk manure. Works fine." F. J. Duffy, East Grand Forks, Minn. "Loaded spreader twelve inches above box with toughest manure could find. It did the work."

Levi V. Beyer, Maudsall, Pa. "Best machine I ever saw work."

G. A. Entz, Newton, Kans. "It is O. K. all around and a machine for any kind of farmer, for the large or small." H. Guberson, Gladbrook, Iowa. "Works fine. Spreads all kinds of manure better than any spreader I ever saw. So simple, nothing to get out of repair as compared with other spreaders."

Ernest Nelson, Chanute, Kans. "Could not do any better. Surprised at the way it does its work and easy draft. Neighbors think best ever seen."

R. A. Jongwood, Litchville, N. D. "Complete success. Several advantages over other spreaders. Can be loaded in barn. Two horses handle it with ease. Boy can operate it with ease." G. B. Clary, Fairbury, Neb. "Works as well as the owners represented it and more. Least expensive spreader I know of."

The Farmers of America Are With Me on This I Can and I Will

My price direct to your station—freight prepaid on 30 Days' Free Trial and 12 Months' Approval Test is doing the business. Here are facts about the Galloway which is the only successful Wagon-Box Endless-Apron Force-Feed Manure Spreader ever made. Beware of imitations.

My new, wonderful roller feed is the greatest ever contrived by human genius. Made of 15 pounds bull metal malleable. Can't wear out. We do with it what others try to do with 250-lb. cogs and gears. Read proof above.

Read These Boiled-Down Facts to Remember About the Galloway

—Saves you 50% on the price—Lowest price ever made on a first-class spreader—Fits any truck

I've Set My Stakes for 30,000 Galloway Spreaders This Year. I've Got the Factory that Can Make Them—and It Shall. I Can Sell Them if I Make the Price—and I Am Doing It. My Price is Based on this Quantity.

regardless of make—Don't break up two teams—Takes only two horses—Thirty days' free trial, you alone to be the judge—Then twelve months' approval test to prove that it's a money-maker—\$25,000 guarantee—I prepay all freight charges to you—Works up and down hill—On side hills—Winter or summer—In snow, ice, rain and mud—Only endless-apron force-feed ever made which alone is worth \$25.00 and found only on a Galloway—Easy to get through your barn doors and around your yard—Eleven different patents—Made in five different styles and sizes, including the Complete 70-bn. Steel Truck Spreader—So simple repairs are almost eliminated—Has the O. K. of forty thousand American farmers.

Then consider these facts and the PROOF and you'll send me your name on a postal for my New Clincher Proposition and Big New Galloway Spreader Book—Write today.

Wm. Galloway Company of America (Authorized Capital \$3,500,000.00)

109 Galloway Station, Waterloo, Iowa

The Hog House Floor

The Opinion of Practical Men on a Most Practical Subject, Wherein the Earth, Plank and Concrete Floors are Each Complimented and in Turn Condemned.

ROBERT A. MATHEWS, Buchanan county, Iowa:—I have had some experience with concrete hog house floors. I used this floor two winters with good results. I contemplate building a new hog house next summer which shall have a concrete floor—a mixture of one part Portland cement to four or five parts clean, coarse sand makes about the right mixture—will make a floor which should stand any kind of farm usage.

L. S. WINDLAND, Des Moines county, Iowa:—I have not had as much experience in handling hogs or in building hog houses as some men, but I have had some experience with the three kinds of floors, viz., the concrete, the earth and the plank. I have no use for cement floor, only as a floor to feed on, and for this I think it can't be beat. I think the dirt floor for a pig bed is the only floor. I always scrape in dirt enough to elevate the floor about a foot to fifteen inches, then if at any time the hogs root any holes in the floor I always haul in dirt and level up the floor in the fall and try to keep it level to go in to winter with; then with a small amount of bedding I have an ideal bed for a litter of pigs. I prefer plank to concrete, because the concrete is so cold that unless one uses lots of bedding the pigs will

chill, and too much bedding is not good.

GEORGE D. ROBERTSON, Wapello county, Iowa:—I have not had as much experience with concrete as some farmers. I think concrete all right for feeding floors. In the first place, it is not expensive to build when you consider the durability; secondly, it is sanitary; thirdly, there is no telling how long it will last if properly constructed. I have tried concrete floors in hog houses—like it all right in summer, but don't like it in winter—it is too damp and cold. I covered my cement floors with one-inch lumber to get rid of the dampness. This makes an ideal floor; rats do not burrow about it. Concrete should be laid in blocks of about three feet square, so if the frost should heave it up it would not crack it. I used a piece of building paper between the blocks. Almost any farmer can mix and lay concrete, but if you can secure help that have had some experience in this line, it will help you out considerably. I find concrete the least desirable for farrowing pens of any place I ever used it. It is almost impossible to keep little pigs dry and warm in damp weather.

VIC WILEY, Moultrie county, Ill.:—I have used concrete floors, also wood floors, and the Mother Earth, and haven't found any that I could settle down to entire satisfaction yet. At present I use all three kinds. If one has a bunch of fat hogs, and it is the last of winter or springtime, a concrete is a good feeding floor, and from May to December the earth is the best floor. Feed in a different place each feed. Concrete won't do at all for sleeping places. I don't know what is best. I saw one breeder who had a nice brick hog house with concrete floors. He had both farrowing pens and sleeping quarters in this same house, and he kept the floor bedded all the time. In winter he kept about four inches of damp sand on the floor. He cleaned this out every other day, and it seemed to be very satisfactory. In the sleeping quarters, I believe that the bedding has more to do with the thrift of the hogs than the floors. We all know that hogs won't fatten, not even thrive, when bedded on oat straw or clover chaff, and leaves are not much better. If you have your sleeping quarters dry, then bed your hogs with wheat or rye straw or millet hay, cut in one-inch lengths. They will not take cold or steam on coming out of their beds and their coats will shine and they will thrive well on good corn in winter weather, and look and feel fine.

D. W. B. KURTZ, Boone county, Mo.:—The subject, "Hog House Floors," is one that I think cannot be definitely determined as most suited for all seasons and localities. For extremely cold and humid climates, concrete being an excellent and rapid conductor of heat, would be an ideal floor for very warm, dry weather, but would be just the opposite in extremely cold and damp weather. Wood floors have the advantage of being a non-conductor of heat, and therefore, preferable in cold, damp, freezing temperatures, which would result in more comfort, less feed, more growth, thrift and better health. The earth floor is by far the most common in use, and for the majority of farmers under the ordinary farm practices is in many respects better than either the concrete or wood. Earth is one of our best disinfectants, deodorizers and germ eradicators. Then it is following closely nature's plans, as attested continually every day by the hogs themselves. By earth floors I do not mean that the house should be built on any flat place, but should have its floor space filled up above the water line, so that it will at all times send the moisture

EVERY FARMER SHOULD START THE NEW YEAR RIGHT

Don't Do Another Thing Until You Investigate the Merits of
THE INDEPENDENT HARVESTER CO.

THE FARMERS' COMPANY, PLANO, ILL.

We Want You to Know of the Organization and Working of the Greatest CO-OPERATIVE Enterprise in Existence.

We want to show you how through Co-Operation of farmer, dealer and manufacturer, we are breaking the shackles of trust despotism—insuring your freedom from trust dictation.

Cut Out and Mail to PLANO, ILL.

INDEPENDENT HARVESTER CO.,
Box 6, Plano, Illinois.
Send me complete information about the
Farmers' Co-Operative Machinery Co.

Name.....

Town.....

State.....

Box.....

Route.....

We want to show you that through our Co-Operative plan we are saving thousands of dollars every year to farmers and dealers everywhere.

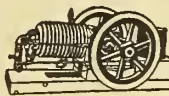
Don't delay, but get in immediate communication with this great Farmers' Company, and learn of the liberal inducements received by becoming members of this great enterprise.

Own Your Own Factories—Manufacture Your Own Machines

Fill Out the Little Coupon and send to

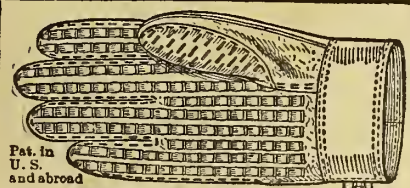
The Independent Harvester Co., Plano, Ill.
The Farmers' Company NOT IN THE TRUST

Air Cooled GASOLINE ENGINES



Have no cylinders to freeze. Our engine is noted for compactness, simplicity, durability, power, ease to start, speed fully controlled by governor. Battery dry cell type. Economical to run. Has many special features found only on our engine. It is fully guaranteed. Write at once for our money-saving offer. Sold direct to farmers. CATALOG FREE.

CEDAR RAPIDS FOUNDRY & MACHINE CO., CEDAR RAPIDS, IOWA.



Try a Pair of Hickory Steel-Grip Gloves!

Here is the finest thing for rough out-door work—winter or summer—that you ever saw in your life. Gloves of waterproof calfskin. Wearing surface faced with Napa leather straps, tough as rawhide but will not shrink like rawhide. The straps or thongs are stapled and clinched by 175 separate ribbon-steel stitches, which save all wear on the leather and give greatest elasticity. Seams outside, sewed with steel wire. Warm linings. Most comfortable gloves made.

Protection Against Thorns, Briars, Slivers, Sharp Stones, Etc.

You can handle anything and everything with safety and comfort! Work in wet snow or zero weather with warm, dry hands! A farmer invented these gloves. He knew what was needed!

One Pair Saves Several Dollars!

One pair Hickory Steel-Grip Gloves will outlast several pairs ordinary gloves. Best old-style gloves soon go to pieces—fingers and palms "shot full of holes"—seams ripped—then you must buy a new pair! Get "Steel-Grips" and save money!

Cash with Order—or on Approval—Take Your Choice!

Price, any size, \$1.50. Send 10 cents for postage and packing if you wish to see gloves first. Or take our word for it that they are all we claim, send the \$1.50 and we will pay postage and packing. That's a fair proposition. Every penny back if gloves not found O. K.

Glove Book Free. Send at once! Get a pair on your hands without delay. Tell your friends about "Steel-Grips." We will appreciate the favor. They will, too.

HICKORY STEEL-GRIP GLOVE CO.
Dept. B, (1) 182 La Salle St., Chicago

\$1.00 AN HOUR FOR YOUR TIME "Keenoh" Does It

AGENTS MAKING \$50.00 to \$150.00 WEEK REGULAR

L.A. Flinker, sworn state agent says: "I earn one to three dollars every hour devoted to sale of 'Keenoh.' Always make \$50.00 to \$150.00 a week, regular." Others doing just as good. Flinker saw great opportunity "KEENOH" offers, grasped it and won. You can do same. You have equal chance to beat biggest record. Men in every walk of life want to shave with comfort, and quickly buy "KEENOH," because it is the great razor shaver, the only one that hones as well as shaves any kind of razor—old style or safety—and does it like magic. Ends every razor trouble; makes shaving a pleasure. Guaranteed to keep razor sharp for life. Every test proves "KEENOH" most wonderful invention of the age. Agents say "KEENOH" fastest order getter and biggest money maker they ever saw—all building permanent business of their own, we help them do it by big advertising campaign. Exclusive territory given. Certainly splendid opportunity. Write for particulars. THE "KEENOH" CO. 1350 W. Fort St., Detroit, Mich.

away instead of into the shelter. My experience has led me to adopt large sheds instead of the ordinary house, and in the sheds I sometimes make temporary divisions to suit my needs, and sometimes, for the time being, I put in temporary floors for specific reasons; for instance, I desire to put a sow and very young pigs in a pen to themselves, I make a plank floor in part of the pen on which I arrange their sleeping quarters and leave the rest dirt floor. The essential thing in hog houses, large or small, is to have them supplied with plenty of fresh air with no drafts, perfectly dry underfoot and plenty of clean, fresh bedding. Don't be afraid to drive the manure spreader into the shed once a week. It is worth \$4 a ton to your land, and the best preventive known to disease. This is something of my practice for years, and I have not had a case of swine plague and cholera for twenty years. Now, while I have not endorsed any one kind of floor for hog houses, I find that what I have said will furnish, perhaps, some useful hints to all swine growers, whether they raise many or few, whatever kind of floors they may use, either in large, small, stationary or portable houses.

SAMUEL E. TURNER, Caldwell county, Mo.:—I presume no farmer who has made hog raising a success, will for once question the absolute necessity of having some kind of a floor for his hog house, or for his hog sheds. Then if that be true, the question for our discussion is, what is the best, cheapest and most profitable floor we can use for this purpose. Now I hesitate to answer, unless I knew all the conditions and circumstances of the one who was intending to build a new hog house. For my part, fifteen or twenty years ago I had plenty of cheap, native lumber of my own and would build good, substantial hog sheds very cheaply, with floors made out of fencing, that answered every purpose for about ten years. Then it was quite inexpensive to renew this floor for another ten years. In fact, I built one hog shed and used yellow clay for a floor, about six inches thick, when the clay was just moist enough so that it would ball by being manipulated in my

hands. Then by pounding it down solid and level and allowing it to dry out perfectly before using, this kind of a floor lasted very well for a while, but was not entirely satisfactory, as the old sows would at last root it up, making holes in it, endangering the lives of the little pigs, making the floor dusty, hard to clean and unsanitary, so much so that I confined myself to fencing for floors, raising up the frame of the building about twelve inches from the ground, then putting in six-inch floor joist and filling in dirt between them, up to the level of the floor joist, so that no draft of cold air could creep up through the cracks in the floor or keep the floor cold all the time. At the time my hog houses were built, the general impression was that cement was very high and that it required a skilled workman at high wages to handle it, but late years have demonstrated the fact that lumber is very much higher and cement much cheaper and that the manufacturers of cement send out, free of cost, little booklets telling just what proportion of cement to use with sand and gravel, and how to manipulate the concrete so that almost any ordinary farmer can handle it successfully that can make a square box. Had I new hog houses to build I should most assuredly try a concrete floor for an experiment, at least, for my nephew has built one about two years ago at my suggestion, and he likes it well. It is 8x35, making five pens 7x8, with movable partitions so that he can use it for his sow at farrowing time, or for fattening about forty head of hogs or more, according to size. The floor is left rough, not troweled down smooth, so that neither sow nor pigs slip down any quicker than they would on a board floor. Then again, it is claimed the concrete floor is colder than plank. True, but when they get warm they remain warm longer, and it is so solid that no drafts of cold air can come up underneath and a proper amount of bedding will make the concrete floor comfortable, sanitary and more profitable in the long run than that made out of any other kind of material, as I now see it.

Ask your neighbor to subscribe for The Homestead.

ADVERTISING NOTES.

On another page of this issue the Smith Manufacturing Company, 158 E. Harrison St., Chicago, Ill., have an advertisement calling attention to one of the important features of their famous spreader, The Great Western. This book gives the reader an idea of the thought and material that are put into the construction of this famous spreader. It illustrates by pictures and tells why the front end of the manure spreader is a very important part of the machine; why there is great strength needed there; and touches upon other features of importance. The Smith Manufacturing Company, 158 E. Harrison St., Chicago, Ill., guarantee the cent less breakage, in other words, 50 per cent more strength than other spreaders. Look up their advertisement, which will be found on page 24 of this issue, and write for their Art Catalog No. D 42.

A FREE SILO BOOK.

A book on feeding silage which gives about all the points that are possible to crowd between two covers of a fair-sized book, is put out by the Severance Tank & Silo Company, Dept. 312, Lansing, Mich. It also tells why the Severance Tank & Silo Company's silos are the best made, and describes the 200 styles and sizes; made of good, old-fashioned soft cork pine, or with choice of six other woods. Write today for this booklet, addressing the company at the above number. See page 17.

TRAPPER'S GUIDE FREE.

The constant increase all over the country of numerous varieties of fur-bearing animals has made trapping not only an interesting, but a profitable winter employment for a great many men and boys. Young men on the farms, in particular, are finding it a means of accumulating considerable surplus money. For this reason a book on trapping is especially valuable. That which is advertised by Messrs. Weil Bros. & Co., on page 38 of last week's issue is one of the most complete in all its departments. It not only describes in detail all the important fur-bearing animals, but gives every fact connected with trapping, game laws, and hints that cannot be obtained from other sources. The publishers, Messrs. Weil Bros. & Co., are reliable fur buyers located at Fort Wayne, Ind. They have the highest financial responsibility, have been in business more than forty years, and have built up a patronage that is the best endorsement that any business concern could have. For a copy of this free trapper's guide or any other information on trapping or shipping of furs and pelts, address Messrs. Weil Bros. & Co., Fort Wayne, Ind., asking for price list G.

DAN PATCH AND MINOR HEIR.

Recent advice from the Savage stables at the International Farm indicate that the two great speed horses mentioned above are furnishing extraordinary entertainment for speed horse lovers on the Pacific coast. Early in July Dan Patch and Minor Heir started out on an exhibition tour from Canada to the Gulf of Mexico and from Detroit to the Pacific coast. This is said to be one of the longest and most successful seasons ever undertaken by Dan Patch or any other exhibition horse. Unfortunately, early in the season, Dan Patch received injuries which prevented him from lowering his notable world's record, but in spite of this the opinion is firmly expressed that there never was and never will be another Dan Patch. In spite of all the difficulties, Dan went to half-mile post at Phoenix recently in fifty-nine and three-fourths seconds and finished the mile in the face of a heavy wind at 2:02 1/4. Minor Heir has, during the season, faced great difficulties in the way of bad weather and bad tracks, and this would necessarily have its effect upon his condition. At Phoenix recently he went the mile in what those present declare was 1:59 flat, and it is their belief that he should now hold the world's record. It is a great satisfaction to Mr. M. W. Savage that Minor Heir has not only paced a mile in the remarkably fast time of 1:59 1/4, but has also shown such wonderful gameness and staying qualities.

DEVELOPING FARM IDEAS.

For the benefit of farmers, more money has been expended in developing ideas for farm devices, implements and conveniences than has ever been devoted to any other class of people. This is gleaned from a perusal of the patent records of the United States government at Washington. Tremendous sums have been sunk into one single device. Years and years are necessary in many cases to pay back the cost of producing the implement, device or tool. One notable instance is that of creating the famous Liberty Gang Plow of the Rock Island Plow Company. This tool, now being handled by all first-class dealers, is an example of the get-out-of-the-rut policy of the Rock Island concern, for the Liberty is unlike any other plow made. The cost of producing the Liberty along original lines, so as to do the work better and with least draft, amounted to a large sum, and today farmers are realizing its benefits in a practical way. Its levers and footlift are within easy reach of the operator and the seat is well back. The plow bottom of new design commences to turn the furrow the instant it is cut loose from the land by the coulter. The dirt is not forced straight against the breast of the plow. The turning movement begins early in the cuts. The tail of the moldboard has little to do but keep the loose dirt from falling back into the furrow. Comfort and durability are combined. A cushion spring permits the land wheel to pass over ridges and uneven ground without disturbing the level running of the plow or jolting the seat. Throat clearance is unusually good, thus preventing clogging in trashy ground. All these, with scores of other points, cost large sums to develop, yet they are to be secured

by the individual farmer at extremely low cost. More about the Liberty gang plow can be learned from the large advertisement of the Rock Island Plow Company, Rock Island, Ill., which will be found on page 4.

HARVEY BOLSTER SPRINGS.

These springs make every wagon a spring wagon, and save their price many times a year to the farmers who have fruit, vegetables and eggs to sell. They save this sort of things from ruin caused by jolting. The Harvey Spring Company, 734 17th St., Racine, Wis., have a special proposition to make to the readers of this paper. Write them today for it. Read their advertisement on page 31 of this issue.

ORNAMENTAL FENCE.

Handsome ornamental fence is made by the Ward Fence Company, Box 450, Decatur, Ind. This fence is cheaper than wood for lawns, churches, cemeteries and public grounds. The firm is an old, established company and is guaranteed to be reliable by the publisher of this paper. They have a special offer that they would like to make all our readers, which we believe is a good one. Look up their advertisement on page 21 and write them at the address given above.

A ROPE-MAKING MACHINE.

On page 40 of the last issue of The Homestead there appeared an advertisement of the B. A. Whitmore Company that will be of note and interest to those who have a little spare time during the winter. The advertisement deals with the New Era Rope-Making Machine which, as will be noted, is a most simple affair and one that may easily be operated by even a boy. By its use ropes of any sort or length may be made and from almost any available material on hand. It will certainly save its price many times over on any farm. The manufacturers want agents to take up the work of selling this little machine in their neighborhoods. For full particulars as to the very liberal terms that may be had, write to the B. A. Whitmore Company, Dept. 25, Fairfield, Ia.

U. S. SEPARATOR AWARDS.

In their advertisement in another part of this paper, the Vermont Farm Machine Company publish a list of prizes won by the United States Separator and its products during the year 1909. The list includes the grand prize given at the Alaska-Yukon-Pacific Exposition in Seattle, the gold medal at the National Dairy Show held in Milwaukee and first prize at a large number of state fairs and dairy shows. The long list, the manufacturers claim, is but few of the awards that were granted. The company also give the information that the awards in 1909 are not more numerous than those granted in former years. We suggest that every reader of this paper look up the advertisement on page 18 and spend quite a little time going over the information contained in it.

A FENCE INVESTMENT.

There is no investment on the farm which will pay as good results as that of a good woven wire hog-tight fence. The present season, when, owing to the conditions of the winter, an immense quantity of corn must necessarily go to loss, illustrates the need of providing some means by which this loss can be prevented in later years. Unquestionably, if a field were fenced hog tight, hogs would profitably take care of practically every grain of corn that is now covered by snow and which must necessarily be lost in the spring owing to the weather conditions. There are plenty of farms where the entire cost of a hog-tight fence would have been paid for by the loss of corn this year. There are a good many arguments in favor of woven wire fences. If you want to learn about them write at once to the Advance Fence Company, Box 107, Elgin, Ill.

PROFITABLE EMPLOYMENT.

The Railway Correspondence School, of Freeport, Ill., presents an opportunity through which young men of the farm who have inclinations for other work may so perfect themselves in pleasant lines of business as to grow into capable business men in lines where high salaries are commanded by the men who are able to earn them. The school in question makes a specialty of preparing young men for the various positions of railway brakemen, firemen, electric motormen and conductors, and, in fact, all positions connected with railroad work. The demand of the railway companies is more and more calling for the employment of men who have had special preparation for their work. The school guarantees positions to its graduates and makes its guarantee good under a legal bond. It is able to do this for the reason that it is the only official school. For catalog giving complete information write to the Wenthe Railway Correspondence School, Central Office 354, Freeport, Ill.

THE JOY OF THE RAMBLER.

The new Rambler catalog is out. It describes the Rambler Automobile. It not only tells what the Rambler is, but what it does, what it is doing and what it will do. Briefly, the catalog starts out by saying that the Rambler is a necessity on the farm, that it rides like a Pullman car, requires less gasoline, is silent and easy running, is built for hard usage, furnishes utility and pleasure, is easy to handle, is a hill climber without question and has advantages that will recommend it to every practical man. The catalog contains many illustrations of the Rambler in trying tests as well as details connected with its production in the factory. Farmers who contemplate the purchase of an automobile will do well to read the advertisement on page 11 and then send for a copy of this catalog, for which address the manufacturers, Messrs. Thos. B. Jeffery & Company, Kenosha, Wis. There is no disguising the fact that the automobile, to an extent perhaps as great as any other vehicle, has become an essential in the equipment of every good farm. This is not because of its element as a pleasure maker for the farmer and his family, but equally as advantageous from the fact that it can be utilized as a carrier for the conveyance of farm products of almost any character. A recent investigation as to the sales of automobiles by Chicago houses developed the fact that 75 per cent of the sales of those city dealers were for

the country trade, indicating that the farmers are realizing the importance of the automobile.

KENDALL'S SPAVIN CURE.

There is no doubt that throughout the country thousands of horses are permanently disabled because of the effects of spavin. This means a loss of practically 50 per cent of the value of the horses affected. In a majority of cases this loss is entirely unnecessary; the old reliable Kendall's Spavin Cure, which is advertised on page 26 of this paper, has been so successful as a remedy that there need be no further losses on account of spavin. This statement is borne out by hundreds of farmers and horsemen who have given it a trial. Among these is Mr. Palmer, of Nellsville, Wis., who, having given it a trial, writes as follows: "I have been using Kendall's Spavin Cure and Blisters, and find them a sure cure for spavin and ringbone." Kendall's Spavin Cure may be had from druggists at the rate of \$1 a bottle, or six bottles for \$5. An interesting book entitled "Treatise on the Horse," is sent free to all readers of this paper who write for it to Dr. B. J. Kendall Company, Enosburg Falls, Vt.

THE PLOW MAN'S BOOK.

The Monmouth Plow Company, of Monmouth, Ill., have a man in the office whom they call "the plow man." This man's duties are to tell farmers who know what good implements are, all about the implements manufactured by this company. He has gotten out a book which is one of the best and most interesting of its kind ever published. He wants to send it to every reader of this paper. It tells of the low price at which this company sell their tools direct from firm to factory, freight prepaid. It also tells of the liberal free trial proposition made by this company. No man should miss reading this book. The implements manufactured by the Monmouth Plow Company are designed to do the most work in the least time, with the least strain on the horses. They are made right and of the right material. It would be wise for our readers to write to "The Plow Man," of the Monmouth Plow Company, 515 So. Main St., Monmouth, Ill., and secure a copy of this booklet. Use the coupon in their advertisement on page 14.

ECONOMY IN SHOES.

Advertisement of Menz "Ease" shoes on page 3 of this paper certainly ought to attract the attention of every farmer who appreciates a shoe that fits. This shoe is waterproof and one that has wearing qualities. It is made by the Menzies Shoe Company, of Detroit, Mich. While the object is to produce a shoe from expressly tanned leather, that is easy on the feet, is not affected by heat nor water and one that will outlast several pairs of soles, pains are always taken to give it a handsome appearance so that it is pleasing under any circumstances. It is not an uncommon circumstance for a pair of shoes of this make to outwear from two to six pairs of soles. That means a good deal of satisfaction to the wearer, because it means that it will fit like an old shoe for a good long time. This shoe is sold direct to the farmers, with express charges fully prepaid and at prices which ought to make it popular everywhere. These prices to you, with other valuable information, are given in the new catalog, for which address the Menzies Shoe Company, Dept. 12, Detroit, Mich.

HORSE FLESH TOO VALUABLE.

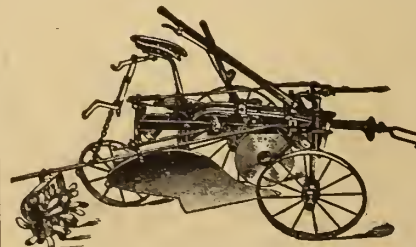
Prices on horses are so high that it behooves the farmer to use every appliance he can secure to procure from them the largest amount of work at the least possible exertion, thus prolonging their lives and enabling them to do more work each day. This naturally brings up the subject of eveners. The Heider eveners are made in sizes suitable from two to six horses, with an even distribution of the pull, no matter how many horses are used. Their four-horse plow eveners work four horses abreast



on gang, sulky or disk plow, or one horse in the furrow, three on the land. They have no side draft, and are easy to attach. The Heider Company make clevises to attach their eveners to all plows. They also manufacture three-horse wagon eveners, wagon doubletrees, singletrees, neck yokes, etc. In eveners insist on getting Heider's if you want good ones. If your dealer can't supply you write at once to the Heider Manufacturing Company, Dept. 16, Carroll, Iowa. See their advertisement on page 31 of this issue.

PLAN YOUR HARROWING NOW.

Of course the time for harrowing seems a good ways off, but after all it will be here before half of the farmers are prepared for it. Then, with the prospect of spring work coming all in a bunch, there is every need that the best and most effective means of doing the work shall be outlined. The advertisement of the American Plow Company on page 8 of this paper presents one of the most thoroughly effective labor savers that any farmer can obtain. It is a harrow attachment used in connection with a sulky or gang plow. By its use the ground is



thoroughly pulverized at the same time it is plowed. It is a very simple little affair, as shown in the illustration herewith, and it saves the use of one man and team without extra cost when buying American Plow Company implements. If you want to know how, write for full particulars to the Amer-

ican Plow Company, 2315 Fair Oaks Ave., Madison, Wis.

NOVO GASOLINE ENGINES.

The Novo Gasoline Engine, which is advertised on page 3, is made in two and one-half, three and one-half and five-horsepower sizes. It is a wonderfully compact little machine and business from the word go. The form in which it is made renders it particularly handy on the farm, where it is oftentimes found necessary to move the engine from one location to another. It can't freeze up, has no separate tank, and in a dozen other ways has advantages not possessed by other motors. All these are fully described by the new Novo Engine Booklet, which will be sent free to those who write for it to the Hildreth Manufacturing Company, 14 Willow St., Lansing, Mich.

MORE CORN.

Of course the fellow who has fifty or sixty acres of corn standing out in about two feet of snow doesn't think much of the talk of more corn just now, but after while it will begin to strike him that more corn—if it can be secured with less work—is a most desirable attainment. One of the ways by which this object may be brought about is the use of the perfected Hayes four-wheeled planter, as described on page 18 of The Homestead. We haven't time or space now to enumerate all of the points that prove our statements. All, however, are given in booklet "F," issued by the Hayes Pump and Planter Company, of Galva, Ill., and sent free to all readers of The Homestead who write for it.

HOW TO TAN HIDES.

There is an art in the tanning of horse and cattle hides as well as in any other occupation. It takes skill and long experience to produce a hide that will be soft and pliable and that will hold the hair when made up into coats and robes as will be noted in their advertisement on page 39. The Des Moines Tanning Company do work of this sort, do it well, and guarantee every hide shipped to them to be tanned by the best and most satisfactory process. Their workmen have been employed in this line for so many years that they know practically everything about it that can be known. Many farmers have had cattle and horse hides made up into robes, coats and rugs, and for the latter purpose horse hides are very handsome. For a free book telling all about hides, how to care for and prepare them for shipment, write to the Des Moines Tanning Company, Dept. A, Des Moines, Ia.

SOUTH DAKOTA LANDS.

Many farmers from the corn-belt states have made as much money in the last ten years by investing in South Dakota lands as they have from the harvest of their corn-belt farms. Land in Hand county has advanced from \$1.50 to \$30 an acre and is still going up. Mr. J. P. Morrill, Palace Bldg., Minneapolis, Minn., was a resident of Miller, S. D., for fifteen years and is thoroughly familiar with land values in central and western South Dakota. Mr. Morrill owns many farms in Hand and Stanley counties, in addition to those listed with him for sale. Those interested should write Mr. Morrill for information regarding some of his Hand county farms which he is now offering at \$30 per acre. He states that he has several exceptional quarter sections in Hand county at \$15 per acre. Readers of this paper are requested to refer to the advertisement on page 36 under "Lands and Homes for Sale." Mr. Morrill is very reliable and may be depended upon in all business dealings.

A NEW WALL FINISH.

The requirements of the more modern sanitary doctrines are forcing out the use of wall paper as being neither clean nor safe to use in the home. The latest article presented is "Alabastine." This is a sanitary wall covering which is easily applied and in which neither paste nor glue nor other injurious substances are used. It is very inexpensive, costing less than the cheapest wall paper, and is at the same time more durable. It can be used in various colors, thus adding a splendid means of attractiveness to rooms. The big advertisement on page 32 gives much useful information with respect to Alabastine. Still further in the way of suggestions as to the decoration of walls may be learned by cutting out the coupon in the advertisement and forwarding it to the Alabastine Company, 31 Grandville Avenue, Grand Rapids, Mich., on receipt of which the manufacturers will send a copy of the Alabastine book about wall decorations. This will be extremely helpful in any home, as through its aid the clean room may be made highly attractive at a slight expense.

MODERN FARM ECONOMY.

The employment of a cream separator has long since become an economic necessity on every farm. The use of the separator, however, has been considered profitable only when a sufficient number of cows were kept to justify the no inconsiderable expense of purchase. The enterprising manufacturers of the American separator have met this situation by the production of a cream separator that is truly a wonder, both with reference to the work it does and the price at which it is sold. The selling figure for this complete separator, made according to the latest and most perfect design, and of the best obtainable material, is only \$15.95. It skims over a quart of milk a minute and does it with the same perfection as does the larger machines. The American Separator Company offer to send this machine absolutely on trial, affording the opportunity to test and compare it with any other separator made, no matter what its cost may be. The simplicity and perfection of the machine make it particularly valuable, yet it has additional arguments in its favor in the fact that it is easily operated and fully guaranteed. The advertisement of the American Separator Company will be found on page 17 of this paper. The firm have issued a handsomely illustrated catalog which describes in full their entire line of separators, explains their system of selling direct to the user, thus saving agency and middlemen's profits, and, in addition, gives full particulars with reference to the above free trial offer of the little separator referred to. For a copy of this circular or other information write to the American Separator Company, Box 1073, Bainbridge, New York.



ANCHOR FENCE
is built on the most approved plan and of material that gives lasting service. Free sample and catalog. Anchor Fence & Mfg. Co., Dept. H, Cleveland, Ohio.

Rotation and Sensible Soil Culture.

To the Editor of The Homestead:

During the winter while we have leisure is a good time to discuss the more thorough preparation of the seed bed for all crops. Mr. J. J. Hill, the great railroad president, greatly deplores the present method of robbing the soil and the lack of proper rotation and preparation of the seed bed and says that soon there will be a bread famine if present methods are continued, and Mr. B. W. Snow, the Chicago grain statistician, says that the available wheat land is nearly all occupied and that if the wheat area is increased that other crops will have to suffer in consequence. Now as a farmer who understands the situation I do not believe that we will have to import wheat for a hundred years yet if we will only give our crops a better rotation, better preparation of the seed bed and better seed and cultivation.

The wheat acreage can be largely increased without encroaching on other crops. Large areas are being drained and planted to corn and waste patches are being cleared and devoted to pasture, leaving a greater area from the now cultivated fields of wheat. And there is a large area in the newer states well adapted to wheat yet to be brought under cultivation. But what I wanted to say is, that the yield per acre can be largely increased, nearly doubled by better rotation, better preparation of the seed bed if more care is taken to plant only the very best seed adapted to a given locality. It is a well-known fact that as often as the yield per acre is doubled that the profits are quadrupled and this applies to all crops grown and it is another well-known fact that with slipshod methods of farming the soil appears to depreciate faster with the small crops raised than where large crops are raised with more improved methods. And it is another fact that the extra time employed in the more thoroughly preparing the seed bed brings a larger profit for the time employed than for the time usually taken to only fairly well prepare the same seed bed. For instance, the fall of 1908 in this locality was very dry and the ground hard and cloddy. Some farmers plowed their wheat ground early and worked it often and got a good

seed bed, a good stand, a good fall growth and got twenty-five to thirty bushels of wheat per acre. Others plowed when they felt like it, harrowed when they got ready to drill in their wheat, got a poor stand, a poor fall growth and got ten to fifteen bushels per acre. Now the fellows who got thirty bushels per acre did not do twice as much work as the ones that expected the weather to do their work for them, but did it more intelligently and got four times as much profit for their extra work as the others did for theirs.

Once in a while nature is kind to these careless fellows and then they crow like a game cock. The wheat area of Illinois will run about 2,250,000 acres and the average yield runs from fourteen to eighteen bushels per acre. Now we can increase our acreage to 4,000,000 acres and the average yield to at least twenty-five bushels per acre, making a total yield of a 100,000,000 bushels annually instead of the thirty-two to forty million bushels we now raise.

There is no need of a wheat famine. What applies to wheat applies to all other crops. Up to the past year the most primitive methods were employed in the seeding of oats and the yield was getting woefully small. For the crop of 1909 many farmers had prepared the seed bed for oats with much more care and the yield was greatly increased, but owing to the high price of good seed many fields received too light a seeding. This caused a ranker growth and a bad storm before harvest lodged some of these fields and now some of these fellows say that their extra work was thrown away, notwithstanding that these down fields gave a greater yield than did the slipshod fields. I know a farmer who up to ten years ago raised 100 acres of corn each year, thought he had to, as he was some in debt. From this 100 acres he raised from 3,000 bushels in a poor year to 5,000 in a fairly good year, but about ten years ago he got "cranky" and said that the yield was altogether too light. He cut the acreage to seventy-five, got "cranky" about his seed corn, insisted that only well filled ears from vigorous stalks should be saved for seed and that all should grow, and that just the right number should be planted in each and every hill, that

the ground had to be plowed right and at the right time, that the preparation had to be thorough, in fact, everything had to be thorough and done at the right time. During these last ten years the yield has never fallen below 4,000 bushels from the seventy-five acres and usually runs around 5,000 bushels. The average acreage yield is considerable more from the seventy-five acres than from the 100 acres and the profits double and yet this man says he is raising 1,000 bushels too little for the acreage planted. Now I am almost ashamed to add that this man is an exclusive grain farmer, and that the field described above has not been seeded to grass for more than thirty years, but he does sow clover as a catch crop with every acre of small grain and supplements this with finely ground rock phosphate to furnish the mineral matter and it does look wasteful to see him plow under a ton or more of good clover per acre when clover hay is worth \$8.00 per ton. But this man has nothing to feed it to and won't sell it off of the farm, so under it goes and he says at a wonderful big profit.

Now I believe if this man would feed what he raises on the farm and return the manure to the land that his thorough methods would produce 100 bushels of corn per acre. But by temperament he is not adapted to live-stock farming and he knows it, so he leaves it alone. But large yields and big profits are much easier attained where everything raised is fed on the farm than where nearly everything is sold as raw material.

In conclusion, rotation makes the preparation of the seed bed easier. More thorough methods will double the yield, as after the crop yield is doubled the profits are quadrupled. The better the methods employed the longer the fertility lasts. There will never be any need of a famine.

Illinois. J. O. Winship.

Husking 125 bushels of corn in eight hours is a record which it is believed eclipses anything in that line done in Iowa this season. The record was established by Theron Denbow, of Liscomb, on the Harry Early farm, in the northern part of Marshall county. Denbow husked forty-five bushels before dinner, and completed his after-

noon's work by adding eighty bushels more. The record is a trifle better than fifteen and two-thirds bushels per hour, or a fraction better than a peck a minute.

Keep a good milk tester. The Babcock is a good one. Weigh each cow's milk and test it thoroughly, then you will know just what cows in your herd are the most profitable.



Heider Eveners

Are the best that skill and brains can produce. Made for 2, 3, 4, 5 and 6 horses. HEIDER 3-horse Wagon Eveners for wagon, manure spreader, grain drill or any other implement with pole. HEIDER 4-horse Plow Eveners work 4 horses abreast on gang sulky or disc plow, 1 horse in furrow, 3 on land. No side draft, all horses pull equal. We make Clevises to attach our Eveners to all plows. ASK YOUR DEALER for HEIDER EVENERS; if he can't supply you write us at once, we will tell you where and how to get them. Let us prove to you the many points of merit, why you should accept no other kind and insist on getting HEIDER EVENERS if you want the best on the market. We also make wagon doubletrees, singletrees, neckyokes.

HEIDER MFG. CO.
Dept. 16
Carroll, Iowa.



WE SHIP ON APPROVAL
without a cent deposit, prepay the freight and allow 10 DAYS FREE TRIAL. IT ONLY COSTS ONE CENT to learn our unheard of prices and marvelous offers on highest grade 1910 model bicycles.

FACTORY PRICES Do not buy a bicycle or a pair of tires from anyone at any price until you write for our large Art Catalog and read our wonderful full proposition on first sample bicycle going to your town.

RIDER AGENTS everywhere are making big money exhibiting and selling our bicycles. We sell cheaper than any other factory.

TIRES, Coaster-Brake rear wheels, lamps, repairs and all sundries at half retail prices. Do Not Wait; write today for our special offer.

MEAD CYCLE CO., Dept. C 184, CHICAGO



HARVEY BOLSTER SPRINGS

Soon save their cost. Make every wagon a spring wagon, thereby increasing its carrying capacity, etc., bring more money. Ask for special proposition. Harvey Spring Co., 124 1/2 St., Eads, Wis.

FREE TRIAL TO YOU

Friends—Tell Me Your Power Needs

SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horsepower from a real engine factory. Save dealer, jobber and catalogue-house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. Come to Waterloo and see it. I sell them direct to you for less money than some factories can make them at actual shop cost—I make so many. All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

Anybody can afford and might just as well have a high-grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for in carload lots for spot cash. An engine that is made so good in the factory that I will send it out anywhere in the U.S. without an expert to an inexperienced user, on 30 days' free trial, to test against any engine made of similar horsepower that sells for twice as much, and let him be the judge.

INFORMATION YOU WANT TO KNOW

Here's how the other fellow answers your questions. I have hundreds of original letters like these—A lot more also in my Engine Book. Get it.

How About Cold Weather?

My engine came O. K., goes O. K., I like it O. K. and it is O. K. The engine I had last winter I had a dread of starting in the morning, but this one is a pleasure; for, instead of 1 barrel of water, 2 pails does the job. I advise anyone wishing an engine to try the Galloway, as it costs nothing to try, according to their terms. W. P. Jennings, Chippewa Falls, Wis.

Is It Powerful and Economical?

When words cannot express a man's thoughts he

is up against it. I think you have the best engine on the market for the money. It is easy to start; it is simple; it is powerful, and it is a smooth-runner. I or no other man knows the worth of an engine till he has used one. I would not think of being without one at any price, and, if I was buying a dozen, they would be Galloways. On the coldest morning, all I have to do is to turn the gasoline on, throw the switch in and turn half over—and are gone. My brother used to sell his engines and he was up to my place. He said my 5-HP. Galloway beat anything he ever saw.

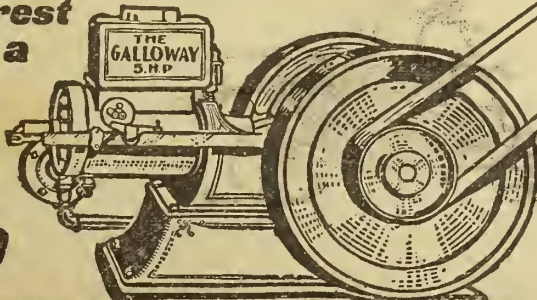
Is It Simple and Easy to Start and Run?

Anybody doubting this testimony, I would be glad to hear from them. E. J. Oliphant, Dodge City, Kans., R. No. 1. I find the 5-HP. engine that I purchased from you to be all that you claimed it to be. Without previous experience, I have no trouble in operating it, while several of my neighbors, with other makes of engines much higher priced, have to call in experts frequently to put them in order. I certainly would not trade it for any engine I ever saw run. E. Loomis, Gibbon, Neb.

Galloway

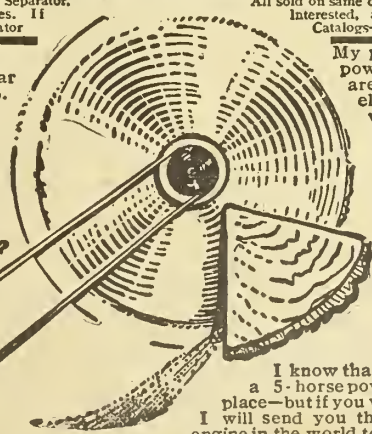
Keep the \$100 That I Save You at Home in Your Own Pocket—That's as Near Home as You Can Get.

Sell your poorest horse and buy a
5-H.P. —Only \$119.50



Cut out this Coupon and mail to me now:
FREE BOOK
WM. GALLOWAY, Pres.
Wm. Galloway Co., of America
105 Galloway St., Waterloo, Ia.
Here's my name and address—send me FREE your Big New 1910 Galloway Gasoline Engine and Power Book—also Low Prices—30-day Free Trial offer and Special Proposition direct from your factory to me.

Name.....
Town..... State.....
IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. I also make the famous Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader. Also the Galloway Cream Separator. Engines. If Interested, ask for my Spreader or Catalogs—FREE.



2-Horsepower Galloway Gasoline Engine \$59.50

My prices for any horsepower engine you want are way below anybody else's—and you get the very highest quality in every Galloway machine.

I know that it pays best to have a 5-horsepower engine on your place—but if you want a 2-horsepower, I will send you the best 2-horsepower engine in the world today, and you are the judge on my 30 days' free trial.

GASOLINE ENGINES 2 to 22-Horsepower Direct to You on 30 Days' Free Trial

How Galloway Engines Save and Make You Money—Their Uses

1. On the Farm—Power for so many kinds of work that they practically save a big share of your hardest labor—and solve the "hired help" problem most of the year.
2. Cream Separator—Run it twice a day, or 720 times a year. Think that over for the women's sake and your own.
3. Churning—Saves all the hard work.
4. Wash Machine—Every week—it saves the woman's work.
5. Grindstone—Saves one man's time turning.
6. Shelling, Shredding and Feed Cutting, besides running the Fanning Mill, etc., etc.
7. The Elevator and Silo—Galloway furnishes the power.
8. Sawing Wood—See Galloway's outfit and description at the right, here.
9. Pumping—Power instead of "back work" or the windmill—no matter where your water comes from, you will thank Galloway for this suggestion.
10. Spraying Machines—Cheapest, handiest way to run.
11. Many Other Ways explained on pages 10 and 11 and all through my Big Free Gasoline Engine Book—Free to you if you send your name to Galloway. Do that right away and see about them—with hundreds of illustrations from farms and factories. Write today.
12. Grinding—Are you paying toll to some other man? Why not buy a Galloway and grind all your own feed? You'll be astonished to see how much you have been losing. Write Galloway—That's the best use you can make of your time right now, while it's on your mind.

Get Galloway's Biggest and Best FREE GASOLINE ENGINE BOOK. Write today for my beautiful, new 50-page Engine Book in four colors; nothing like it ever printed before; full of valuable information, showing how I made them and how you can make more money with a gasoline engine on the farm. Write me—**Wm. Galloway, Pres.**

THE WILLIAM GALLOWAY COMPANY OF AMERICA
Authorized Capital, \$3,500,000.00. 105 Galloway Station, Waterloo, Iowa

OUR HOME DEPARTMENT

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

The annual homemakers' conference recently held at Columbia, Mo., brought out a number of good points in regard to the making and maintaining of farm homes. "Three things should be kept in mind in planning a home," declared one woman speaker. "These three things," she continued, "are health, convenience and beauty. In choice of a location the farmer is not limited to one cheap lot, but should select a place naturally drained and protected from storms. A supply of fresh running water is a necessity to both health and happiness. Convenience in a home is a matter of arrangement and not of money. No man has any business planning a kitchen. Floors should be finished in hardwood, as the cost for a sixteen-foot room is only \$10."

Possibly the most important point brought out was that each member of the household, young and old, should have some room which is his or her own. "I would have a children's room where they can amuse themselves in

the long winter evenings," said one speaker. Another was equally insistent that the mother should have the same rights as the children. Mrs. Eugene Smith, who has completed a country home in northwest Missouri, maintained that it is a model in that one small room is set apart for her husband's belongings. She said she never enters this room and her husband always knows where things can be found. "I want to commend Mrs. Smith's judgment," was the comment of an elderly woman attending the conference. "I have found horses' bits on my dresser and am often asked to take care of all sorts of things for the man of the house."

The ideal home is one in which every member feels a joint proprietary interest, yet has some particular room or spot (it may be only a chair, a dresser or a window seat) which is truly his or her own. From the children to grandmother all should have a nook where little treasures or useful articles may be put, kept intact and found without the others having touched or displaced. Many a little household tragedy will be averted by thus respecting the property rights of others.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

What a mighty reformation we would wit-

ness through the land
If the masses and the classes could be made to understand
That he wins at least one sinner from dishonesty and pelf
Who will let alone his neighbor and just practice on himself.

FOR DIPHTHERIA.

The Scientific American gives this recipe: At first indication of diphtheria in the throat of a child, make the room close, then take a tin cup and pour into it tar and turpentine of equal parts, then hold the cup over the fire so as to fill the room with fumes. The patient, on inhaling the fumes, will cough up and spit out all the membranaceous matter, and the diphtheria will pass out. The fumes of the tar and turpentine loosen the matter in the throat and thus afford relief that has baffled the skill of physicians.

WASHING NEW FLANNELS.

It is surprising how a little care in washing new flannel lengthens its life and preserves its appearance.

First of all, put the garment or the piece of flannel into a large tub filled with cold water, rain water where obtainable, but otherwise with a little ammonia added. The water must be cold; no other method will extract the sulphur which is contained in all new flannels. Steep it for at least two hours. Have ready a tub of hot, not boiling water, add a little soap jelly (too much soap makes flannel shiny) and a tablespoonful of ammonia. Put the flannel into this and rub lightly with the hands, giving extra attention to seams, gathers and thick places.

Wash again through warm water with a smaller quantity of soap jelly in it, and rinse in tepid water. Pass twice through the wringer and hang out of doors, if possible, with the thickest and heaviest part upmost. This precaution is necessary, otherwise the water drains into the yoke, collar or waistband and thickens those parts.

Fine flannel may be pressed with a moder-

ately hot iron on the wrong side, but heavy garments are usually mangled.

WITH OUR GOOD COOKS.

Smoked Beef Rarebit.—One-quarter pound smoked beef, one cup tomato juice, one-third cup of grated cheese, two tablespoons melted butter, two eggs, a very little onion juice. Pick beef, add tomato juice; when very hot add onion juice and cheese. Cook thoroughly and add eggs well beaten. Serve on thin slices of buttered toast.

Potato Biscuits.—Into one pint of hot potatoes, mashed smooth, mix one teaspoon of salt, two tablespoons of butter, one pint of sour milk into which has been stirred one teaspoon of soda, and add flour enough to make a soft dough. Make into small biscuits, let stand in a cold place for one hour and bake in a quick oven.

Baked Apple Indian Pudding.—Into one pint of sifted Indian meal, add three pints scalding milk, two heaping teaspoons of sugar, two teaspoons of cinnamon, and one teaspoon of salt. Stir until thoroughly mixed. Take one dozen sweet apples; peel and slice very thin; add these to the above and bake three hours in a moderate oven. If you are compelled to use tart apples, add more sugar.

Rice Muffins.—Sift together two cups of flour, four level teaspoonfuls of baking powder, half a teaspoonful of salt and scant fourth of a cup of sugar. Beat one egg; add one cup of milk and half a cup of hot, boiled rice, mixed with three tablespoonfuls of melted butter, and stir into the dry ingredients. Bake in a hot, well-buttered muffin pan about twenty-five minutes.

AMONG OURSELVES.

Christmas echoes continue to ring for weeks after Santa Claus has come and gone. It is therefore fitting that we should consider some after-Christmas thoughts brought to us by M. S. D., who is a thoughtful observer:

What an effort the world made that no child should lack the cheer and good will of the Christmastide! The Order of Good Fellows, who visited the homes of the poor, carrying gifts; the public Christmas trees supplying thousands; the Salvation Army dinners; the institutional churches, the sisters and the deaconesses; the overflowing good will of most of humanity; surely the Christmas day of 1909 left no one without a gift from somebody in token of the great gift of God's only son to a needy world on the first Christmas day. And yet—why is there a "yet" troubling our minds about so many things?—watching one of these great public Christmas trees, the specter of pauperism rose between me and the noisy children. A family to whom had been carried a beautiful dinner, asked and received Christmas help from five other sources, and they were all able to work and support themselves comfortably. Is it good for the future of our beloved country that we train our less ambitious citizenship to hold out greedy hands for alms, to receive without an effort to return equal value? And then we wondered if those of us who are strong should live each day of the year in the spirit of the Christmas day, if there would be quite so many weak ones to cheer at the close of the year. If we gave honest toil for an honest wage and the full measure of our strength and ability, might not somehow the measure of our reward also be full to overflowing? The spirit which desires joy in every heart at Christmastide is the expression of an inner life of our people that we do not talk about. We think of it with a swelling of the throat and a mist before the eyes. And yet, are we expressing it in the best way by an indiscriminate scattering of gifts which may lead what might have been sturdy character into a resemblance of the despised beggars of the old countries?

The problem M. S. D. presents is one which, in a variety of forms, confronts philanthropic workers all over the land, and not alone at Christmas time. It seems too bad that what is intended to be a help should encourage indolence, and that in this way those who would do good actually do evil. The remedy is difficult to find, but, as M. S. D.'s remarks suggest, the need for it is real.

A little message which should have found place before Christmas to accomplish the kind purpose of its sender is presented here in hope that it may direct birthday or other anniversary giving:

My object in writing to you is to send a bit of verse that bears on your excellent article in a recent issue. I don't know who the author is, or was. It was printed in the Christmas catalog of a St. Louis book store:

"To cheer my friends, I wolde not give Colde, tongueless thynges, but bookes that live
To utter thoughtes and truths divine,
Or mottoes cards of faire designe,
For other pleasures pall with age,
But naught survives ye lettered page!
And be who sendeth giftes, I wot,
That speak in print, is unforget."

The lines Mr. Bauer brings us have a pleasant sound in the ears of book-lovers who thoroughly agree with their author.

Some weeks ago Daisy Field sought advice on the delicate matter of the attitude of a hostess toward a well-meaning but officious guest. H. M., who has had experience, comes with a few words:

I once had a guest like you had for your Thanksgiving dinner. I quietly told her that I did not wish to learn her way, as mine suited me best. She was offended, but the next visit she paid me there was no clash in the household machinery. She let me do

You Want a Clean Attractive Home

Of course you do. And you want to safe-guard the health of your family too. Then look after your walls and ceilings and see that they are cheerful looking and sanitary.

Wall paper is out of date and is neither clean nor safe to use in the home. It requires paste to make it stick and that paste decays and affords a lodging place for all kinds of disease germs and insect life. You probably know that already. Now then, the clean thing, the beautiful thing and the inexpensive thing to use is

Alabastine

The Sanitary Wall Coating

It is a powder made from pure native Alabaster, and you simply mix it with clear cold water and apply it with a flat wall brush. Any one can do it by following the simple directions printed on each package. So much easier than wall paper.

Costs less than 2c a Sq. Yard

The cheapest wall paper costs much more, so any one can afford to have not only the most durable and sanitary walls but also to be in style, for tinted walls in Alabastine are the fashion to-day in all the large cities, because of its soft velvety colors in all sorts of beautiful shades.

These Helps for Home Decoration Free

All These Helps Free

Send us the coupon today (or a postal card will do) and we will mail you the Alabastine book full of useful ideas. Color cards. Samples of Alabastine decoration. Then we will tell you about our

Special Offer

How, for a limited time, we will furnish our friends absolutely **Free** complete color plans for the walls of every room, and assist you in making the home look its best. We will also tell you about how we furnish free stencils to help you do artistic work. This is a special and unusual offer and every woman should send for it. Remember, we do not want to **sell** you a thing—you buy Alabastine from your dealer.

Do Not Confuse Alabastine With Kalsomine

People do not like kalsomine because all kalsomine is mixed with glue to make it stick, and when the glue rots the kalsomine comes off—on your clothes and on the floor. Alabastine is altogether different and adheres to the wall of its own cementing qualities. It requires no dirty glue or paste.

Alabastine comes in packages with the trade-mark printed in red. Be careful not to accept anything else or you surely will not get genuine Alabastine.

The Alabastine Company
31 Grandville Ave., Grand Rapids, Mich.



Mail this Coupon Today

Alabastine Co.,
31 Grandville Ave.,
Grand Rapids, Mich.

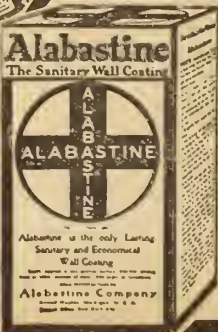
Please send me your free helps and tell me about your special offer of free color plans and stencils as advertised in.....

Name

P. O.

County

State



as I pleased and I really did enjoy her visit. Now, if they are never coming again, it is best to make the best of a bad visit; but if they are coming the next year it is best to let them know that you wish to rule both children and house. I should have given the children the pie and told her I did not put anything on the table they could not have. I should have gone to the sand pile and helped them to build the houses on the porch, asking her to please not sweep them off. I do not believe in being unkind, but gently and quietly let guests know I have rights as well as they.

The point with regard to a repeated visit is well taken. It is sometimes better to endure temporary discomfort rather than give offense, but where a visitor is likely to return again and perhaps again, it is better to establish relations on a permanent basis or break them off altogether.

As I remarked last week, the case of M. L. H. seems to have aroused considerable interest. From among the letters of advice called out by her letter we shall first consider that written by X. Y. Z.:

In regard to the young lady who asks for advice. Reading her letter made me feel just as if I would like to put down a few of my thoughts in writing. Did you not ask for advice, and if we girls thought as you did? My dear girl, if the young man of whom you spoke really and sincerely loves you as an intended companion should, he certainly could leave off those bad habits, which are such trifles, compared with so great a thing as love, and yet how many homes have been wrecked by these two habits. You say you shall never marry only for love, that you love has been given another, that he, this one, is your second choice. Then I say for the young man's sake, and your own, do not take upon yourself the sacred marriage vows, which you never can fulfil, if your heart does not possess the first and true love.

It is good to have the two points of this letter brought out clearly. The man who loves liquor better than the girl he would make his wife is no husband for a woman who objects to liquor. On the other hand, a woman owes it to the man who honors her by asking her to be his wife to frankly tell him no unless she really and truly love him.

Our next letter brings out other phases of this question:

Being a man, I don't know if I should find fault where I am not wanted, especially not if I should take the liberty to chastise one of the fair sex. Now, I do not think that M. L. H. really loves her admirer at all, otherwise she could find out from his ways and character better than one who has only read a paragraph about him. Furthermore, I do not think that it is alone for men to be perfect. Drinking is bad and will do more harm than all else put together, and any young man who really loves a young woman will give it up if he is approached from the right source. I am a Christian,

but do not think that card playing or dancing is so very bad. It all depends on how, when or where you play or dance. I don't think men were ever intended to be ruled by women anyhow. If men were to consent to all things that women ask, they would soon be a lot of old fools, or similar things. I think the average girl would be only too glad to have a man that is an excellent companion, a church goer, keeps in good company and, best of all, quite well to do.

The objection to cards and dancing in the case of M. L. H. is that in her heart she feels they are amusements which a Christian should not indulge in. This means that should she marry a man who does not object to them, either one would have to yield to the other or they would walk apart. If she yielded to him her conscience would reproach her; if he yielded to her he would probably do so grudgingly; if both held out a breach would be made which would be apt to widen with the passage of the years—and end with the woman sitting lonely at home while the husband sought his pleasure with others.

What Mrs. M. S. has to say, while addressed to M. L. H., has a wide application and should be carefully considered by young women generally:

Having been a silent member of Among Ourselves for some time, I now feel constrained to say a few words to M. L. H. and incidentally, I hope, to some other girls. The time has passed when a girl needs to marry for support, or to escape the stigma of being an old maid, so I should say, by all means, do not marry until you are quite sure that you have found a man that will be a companion in the highest sense of the word, and that includes much. If you are a Christian and he is not, there cannot be true sympathy and companionship no matter how many faults or bad habits he may have, here and there. If the heart is not right, the life cannot be. If he still loves the gay life, I should be very, very much afraid that after a time he would return to it, or to some other wrong course, after the newness of wedded life had passed. It is a terrible burden for either man or woman to go through life trying to walk the better way and being constantly pulled back by an unsympathetic or antagonistic companion, but it is much harder for a woman than a man. I think most girls, especially young girls, marry for love, but the trouble comes in their idealizing the chosen one, clothing him with all the virtues which they think he ought to possess, when, if they could have a glimpse of the real character, they would recoil in horror and the delusion would be effectually dispelled. Love, in order to endure, must have respect for a foundation. Married life is the happiest under right conditions, but the most hopelessly unhappy when one party proves unworthy the love and respect of the other. Far better remain single all your life than to feel the galling bondage of enforced companionship with one who is low and degraded in his tastes. And let me say here, that so long as the double standard of right and wrong continues, so long will many women's hearts be broken and lives ruined through the impure lives of their husbands. It seems to me a girl should consider very seriously, and more, find out, if possible, the kind of life a man has lived, and, if it has been impure, avoid him as she would a serpent. If all girls would do this, it might be the cause of a marked decrease in marriages for a while, but it would save much suffering and might be the means of producing a higher and better type of manhood.

It seems to me that we have heard some sound and practical advice on this matter. There is more to follow. Next week we shall have other good letters. One is from a man in the

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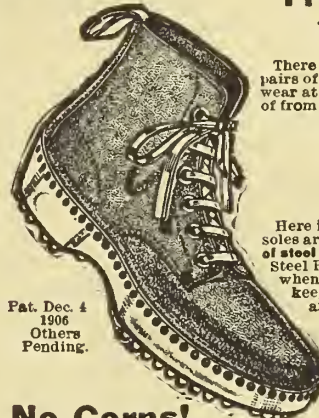
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Pat. Dec. 4 1906
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For general field work, we strongly recommend our 6-inch high Steel Shoes at \$3.00 per pair, or the 9-inch at \$4.00 a pair. For all classes of use requiring high cut shoes, our 12 or 16-inch high Steel Shoes are absolutely indispensable.

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POPULAR RECIPE

This Home-Made Cough Syrup Stops Coughs Quickly.

Make a plain syrup by taking one pint of Granulated Sugar, add one-half pint of warm water and stir for two minutes. Put two and one-half ounces of pure Pinex in a pint bottle and fill it up with the Granulated Sugar Syrup. Take a teaspoonful every one, two or three hours. Keep well corked and it will never spoil.

The effectiveness of this simple home-made article is surprising. It usually stops a deep-seated cough in twenty-four hours. It is also excellent for colds, whooping cough, pains in the chest, bronchial troubles and similar ailments.

Use the real Pinex in making it, however. It is the most valuable concentrated compound of Norway White Pine Extract, and it is far superior to the numerous pine oil and pine tar preparations. If your druggist does not have it, he can get it for you without trouble.

The proportion above suggested makes a full pint of the best cold and cough remedy. The taste is so pleasant that children take it willingly. The total cost is about 54 cents.

Strained honey can be used instead of the syrup, and makes a very fine honey and pine tar cough syrup.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson 111.—Matthew IV., 12-25.

January 16, 1910.

The Beginning of the Galilean Ministry.

The public ministry of Jesus burst upon the people who sat in darkness like a moral sunrise. The preaching of John Baptist had been the foregleam. Such sermons as that on the mount were a complete bringing to light of the spirit, principles, and effects of the kingdom of heaven. It was also an unveiling of the Messiah himself, his disinterestedness, purity, and authority. This light also was not confined to a narrow territory, as we are apt to think. It blazed across all Syria. It was not always a gentle and diffused radiance. It was often concentrated into a burning ray, which consumed the mask of hypocrisy and ate with caustic power into the putrescence of insincerity.

Parallel with this ministry of word there ran a ministry of deed. The latter was a series of acted parables designed to illustrate and enforce the former. The miracles of healing showed the beneficent spirit of the king-

dom, while at the same time they attested the divinity of its founder; for, unlike others, the miracles of the Messiah were wrought in his own name, and with self-derived authority.

It is certainly not a mere coincidence that in this spirited account of the beginning of Jesus' ministry there is inserted as in a parenthesis, the call of his human helpers. It pleased the Messiah to put this great honor upon men, and make them his co-workers in the founding of the kingdom of heaven upon earth. The prompt obedience and self-forgetting consecration of those who were called is inspiring, and a pledge of the phenomenal success afterwards achieved.

The very scene chosen for the opening of Jesus' ministry is suggestive. Galilee of the nations, as its very name signifies, was a polyglot district. The early preaching of the gospel to this mixed population signified that the new faith was to be an all-men's religion.

Thus, in all respects, the beginning

of the ministry of Jesus fulfilled that lofty Isaiahan choral:

The land of Zebulun and the land of Naphtali;
Toward the sea beyond Jordan,
Galilee of the Gentiles,
The people which sat in darkness,
Saw a great light.
And to them which sat in the region and shadow of death,
To them did light spring up.

The Teacher's Lantern.

The orderly precision of Jesus' movements is well illustrated in the fact that he did not emerge from private life until imprisonment closed the career of his forerunner. Galilee, from its frontier position on a commercial highway, was more independent of current ecclesiasticism, and consequently more apt to receive the gospel. The wisdom of Jesus in the choice of the scene of his earliest preaching is apparent. On comparison of the evangelists there seems to have been a series of progressive calls to the apostolate. A first call, after which there was a dismission to their old environments, where, free from the novelty of their new situation they might review what they had seen and heard. The second call was not therefore as abrupt as it would appear from the narrative. By it the apostles were permanently attached to the person of the Lord. The third call was the formal induction into the apostolic college. These four were ever the most closely attached of Jesus' apostles. The mention of hired servants and John's acquaintance with the high priest would rather indicate that Zebedee was a man of position, influence, and possibly of wealth. The triple office and superlative industry of Jesus is indicated when it is said



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he taught, he preached, he healed. The geography of phophecy is a pleasing study—Isa. IX, 1, 2; Matt. IV, 14-16.

DESSMAKING—NO. 59.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Simple little frocks such as this one are the best liked for the tiny girls and are made from all sorts of pretty materials. Mercerized white lawn with yoke and epaulettes of embroidery, trimming of lace insertion and edging makes the dress shown but cross-barred and embroidered muslins are very dainty, rosebud and other simple figured dimities are much liked and a great many mothers use cashmere, albatross and materials of the sort for the cooler weather. The dress can be made with the pretty short sleeves illustrated or with long ones and with the epaulette-like trimmings or plain. The high yoke can be omitted, too, and the neck left slightly open if that style is liked.

The dress is made with the square yoke and the front and back portions that are gathered and joined to it. Whether the sleeves are short or long they are made in one piece and gathered into bands. The



[6520 Child's Dress, 1, 2 and 4 Years.—To be Made With Short or Long Sleeves, With or Without Epaulettes.]

epaulettes when used are arranged over the shoulders and attached to position. The dress is closed at the back. When made with low neck the dress is joined to a shallow yoke, as shown in the small view.

The quantity of material required for the

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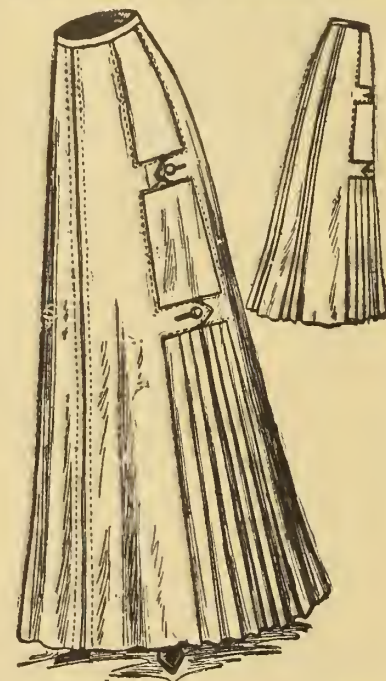
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medium size (2 years) is 2 yards 24, 1 7/8 yards 32 or 44 inches wide with 3/4 yard 18 for the yoke and epaulettes, 8 yards of banding, 3 yards of edging to trim as illustrated.

The pattern 6520 is cut sizes for child.



[6519 Six-Gored Skirt, 22 to 30 Waist.—In Walking or Round Length.]

dren of 1, 2 and 4 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

The skirt that is made with plaited

Coffee for 2 Cents a Pound

MR. A. T. COOK, the reliable Seedsman, of Hyde Park, N. Y., has seed of the new Domestic Coffee; large packet, 10 cents, 3 for 25 cents, 12 for \$1.00, all postpaid. It is the poor man's friend, and is perfectly delicious. It can be grown anywhere for 2 cents a pound, and thus save many a dollar. As the Christian Advocate says: "It is one of the most wonderful discoveries of the age." It bears prodigiously, and matures early as corn. Write to him today or you may forget it. His illustrated Catalog, Premium Coupon and a nice present will accompany the seeds.

panels at the sides is a pretty as well as a fashionable one. It is being developed in fresh and in novel effects, but among them all there is nothing better than this one. The strap effect above the plaited panels is a singularly successful one and there are long, unbroken lines at front and back, which give an effect of height. Prunella cloth in one of the beautiful new plum shades is the material illustrated, but all sniting and skirting materials adapted to the plaited panels can be used, the thinner materials for indoor wear, and heavier for the street.

The skirt is made in six gores and the front and side gores are cut with extensions that form the straps, while the side gores are cut off and attached to the plaited portions. The triple box plait is arranged over the edge of the side gores and the closing is made invisibly beneath the left edge. When walking length is desired the skirt is cut off on indicated lines.

The quantity of material required for the medium size is 7 7/8 yards 27, 6 yards 44 or 5 yards 52 inches wide, width of skirt at lower edge is 4 1/2 yards.

The pattern 6519 is cut in sizes for a 22, 24, 26, 28 and 30-inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send additional two-cent stamp for letter postage which insures more prompt delivery.)

to mention. We spent the day in playing games, music, snowballing and sleigh riding. Before I knew it the day was almost gone, and it was time to go home. I was sorry that Christmas day was nearly gone. Oh, I forgot to mention that Santa was good to me. He brought me many nice things and among them was a pair of skates, I liked best. I also helped mamma fix up a basket for two little children whose mamma has been sick for a long time and was not able to prepare them a Christmas. Of all my enjoyment I believe this pleased me the most. How glad it made their little hearts. And I wished that I might do more for the needy ones.

Gladys Jamieson.

Christmas Company.

I am a farmer's daughter and live on a large farm. I arose early Christmas morning wondering if good old Santa Claus had left anything in my stockings which I had hung up beneath the chimney with the greatest of care the night before. I ran downstairs laughing and dancing with joy. Running to the chimney corner I saw before me the once empty stockings overflowing with beautiful and useful gifts. By this time mamma came into the room and told me that company was expected for dinner and that I must carefully lay aside my gifts and prepare for them. I obeyed and soon I was dressed ready for the company. Suddenly we heard a knock at the door and I ran calling to mamma that the company had arrived. After they had been quietly seated in the parlor, mother excused herself to prepare dinner and left me to entertain the company. This I enjoyed very much, as they all knew how hard it was for a little girl to talk or say much among so many grown-up people. About two o'clock mother came to the door and invited us out to dinner. Oh! my, I was hungry, but papa and sister told me that I must wait until the company had had dinner. Could I ever stand it? The smell of the roasting turkey and the delicious looking table made my appetite increase more rapidly. Mother saw that it was a great temptation for her little girl to wait so long, so she gave me a piece of cake and I went in the other room and quietly waited. It was not long until they all came in. After dinner the older ones played games and some of the girls played on the organ and they had singing while I took the little girls and boys and we went out of doors to coast and snowball. We had great fun rolling and running around in the snow.

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THE YOUNG FOLKS

A Pretty Entertainment.

I am a little girl seven years old. I have three sisters. We live one mile from town. I go to the Presbyterian church to Sunday-school. Christmas eve mamma went down to help dress the tree, so she let me go with her. Papa gave me fifteen cents and I got my oldest sister a little autograph album and my little sister next to me a yard of ribbon for her hair. Then I went up to the church and gave mamma the things to put on the tree, then I helped some other little girls go around and get things for the tree. About seven o'clock we all began to go to the church to get our presents and see Santa Claus. The baby class in our Sunday-school all were dressed in their white night gowns and knelted down and said a little prayer that was in our Sunday-school paper. My little sister, Madeline, and me were in it; she is just four years old and couldn't learn the prayer, so she just knelted down with us and I wish you could have seen her. She just drew her eyes up, the tightest and looked so cute. Then after they were all done saying their pieces, Santa Claus came in

blowing a horn and was so funny and when I found out who it was, don't you think it was papa? Christmas day was awful cold, but I went with mamma about seven miles to see a good old grandma that God had taken home to heaven Christmas eve, and an aunt of mine, who is very sick of consumption. So that is the way I spent Christmas. Jewell Hardy.

Played Santa For Others.

I am a girl thirteen years of age, but I always love to talk about Christmas and have it come, because it is always a pleasure for us children. Christmas eve I took part in an entertainment given by our Sunday-school. We had a Christmas tree and we all enjoyed it very much, especially when Santa Claus made his appearance. What a pleasure it was to see the little tots gather around him. We were invited to grandpa's for Christmas dinner. Grandpa lives in town now. They used to live in the country near us. So you can guess that grandma knows how to get up a good, old-fashioned dinner. Her turkey and plum pudding was delicious, and the many other good things too numerous

About five o'clock the company prepared to leave, saying they had enjoyed themselves very much during the day and hoped that we might be together next Christmas to have as good a time. Lenora Joslin.

She Made Others Happy.

My Christmas was spent very differently this year to what I had spent it other years. We had always had our relatives who were able to get their own Christmas dinner, but this year we were thinking about those we could make happy by inviting them out for Christmas. There was a poor family living about two miles from us in the country. The mother was sick with consumption and had been sick for a long time, but was still able to drive. There were four children, the baby was one year old and the other children's ages were four, six and eight years. They could not afford to have a Christmas dinner, besides the mother was not able to prepare it, as the father had to do the work, so we invited them to spend Christmas with us. They arrived about eleven o'clock Christmas morning. As the children bounced in with their merry laughter wishing us a merry Christmas and we pulled the large rocking chair close by the fire, mamma putting a large quilt in it so it would be more comfortable for the lady, then taking the baby and unwrapping it, the rest of us danced around the Christmas tree, which was the best they had ever seen. By this time dinner was ready and as everything was placed on the table we called dinner and as we sat down to the table and a fork was plunged into the turkey's breast a savory smell filled the room and a murmur of delight went all around the table. And even the baby's eyes jumped with delight as it saw the big red apples on the table. Dinner over, we played many games, such as playing the piano, singing songs, and playing house with our dolls. Then I gave each of them a large doll. Popcorn, nuts and candy were taken from the tree, each one receiving his share. Time flew so fast that they soon had to go home. We all thought our Christmas well spent in making others happy. Bessie Dreher.

The Nicest, Prettiest Doll.

I am glad to have the opportunity to write to you and tell you how I spent my Christmas and what I am doing to pass my time. Well, the weather was stormy and I did not get to go to a Christmas tree, but I knew that Santa Claus had something stored away Christmas eve for me, but I did not say anything, so Christmas eve before I went to bed I put my plate on the table and said: "Santa Claus, remember me, when I am fast asleep, and do through the chimney creep, that in the morning I for joy may leap." And so it was when I got up in the morning I leaped for joy when I saw my plate full of candy and a harp and a rubber ball

and a package of mixed nuts. Oh! what else do you think I saw lying side of my plate on the table? It was a nice, big, dressed doll, fast asleep, and I picked her up and said "Hello, Katie," and she opened her sweet brown eyes and looked right straight at me, with a sweet smile on her face, and I kissed her and laid her in my doll carriage which Santa Claus brought me four years ago last Christmas, and I kept it nice. I got two dolls, but they are not so large and nice as this one is now. I will be busy again to crochet my new doll a nice hood. I crocheted my other two dolls each a hood. I learned to crochet doll's hoods from the girls in school. Oh! I sometimes wish Christmas would come oftener. We always go to church on Christmas, then the preacher always talks to us about Jesus being born on Christmas. I love to go to church and to Sunday-school where we hear so much about our loving Jesus. I just wonder if all the girls and boys love Jesus. Well, I hope this will be interesting to all the girls and boys that read this. I am my mamma's eleven-year-old girl.

Lillie May Oyer.

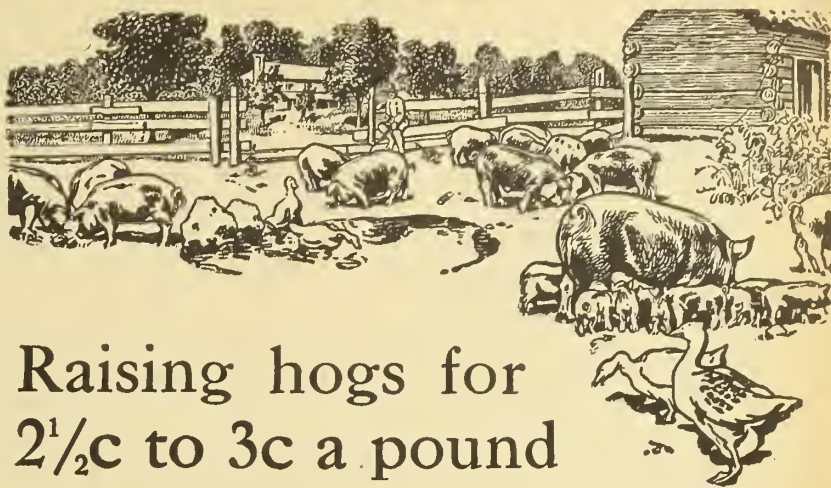
An Unselfish Day.

The day before Christmas it snowed very hard and so I was looking forth to a merry sleigh ride. Christmas morning when I awoke it had stopped snowing and I got ready for a sleigh ride. Outside the sleigh was ready. I got in and soon we were riding along the country road. It was a pretty winter scene, the trees were all bare with now and then a lonely sparrow who gave a faint chirp. Everything was covered with snow and it was pleasant to hear the bells that jingled merrily. As we passed the church we heard the Christmas bells ringing and the pretty decorations made on account of the great holiday. It was noon when I returned home and I was ready for a hearty Christmas dinner. After dinner I got a Christmas basket ready. I got a large basket and put a turkey, cranberries, butter, bread, cake and a large plum pudding into it and also filled a large stocking with toys and books. I put on my coat and cap and took the basket to a neighbor's home. These little children had never seen Christmas toys or even a Christmas dinner. I put the basket on the doorstep, put a card on it saying it was from me, and knocking hard on the door I vanished, leaving it for them to enjoy. It was almost dark when I returned home and it had begun to snow. In the evening, Santa Claus came. He brought a fur, combs, new register, ribbon, handkerchief, a new dolly dress, a small calendar from my dear teacher, a large Christmas tree and candy, oranges and nuts. I enjoyed Christmas very much and when I lay on my pillow in the evening I thought I had made other children happy besides myself.

Elizabeth Dammann.

INTERESTING FACTS CONCERNING COAL

The simplest things in life are oftentimes the more interesting and the more capable of producing wonderful results. A chunk of coal, for instance, has so little apparent interest for itself as to attract little attention beyond its economic value as a fuel. Yet the by-products that are obtainable from coal are legion and their uses cover almost the entire field of manufactures. The perfected methods employed in the manufacture of Solvay Coke have been the means of bringing out numerous of these important by-products. In the not very distant past many of these by-products were considered an actual loss and, indeed, an expense, whereas today they have become an item in the profit-making resources of the manufacture. The more prominent instance of this was the case of gas tar. It was put to no use whatever and its removal and disposition was quite an expensive affair. Today it is known that over 200 different substances have been separated from tar. Prominent among those which are put to commercial use are the coal tar dyes, the basis of which are the materials carrying anthracene and naphthalene. The former is a beautiful yellow crystal and the important starting point of the dyes referred to. Naphthalene, also the basis of a series of dyes, is better known in the form of moth balls. A curious feature connected with this article is that, although coal tar is absolutely black, the naphthalene comes out of it white as snow. Carboic acid and crysillo acid are also gained from the same source. They are too well known as disinfectants and germicides to need other reference. Carboic acid, however, has still another use. It is transformed into picric acid, as which it becomes the basis of a deadly high explosive. Picric acid has also a place in surgery. Creosote oil, of recognized value as a preservative for timber, is also produced in the process, as is, too, pitch, used for roofs and roads, and pyridine that is used in denaturated alcohol. Every ton of coal made into Solvay Coke produces also about five and one-half pounds of pure



Raising hogs for 2½c to 3c a pound

Hogs can be grown in the Ozarks to weigh 300 pounds without ever having had three bushels of corn—the cost will not exceed 2½c to 3c a pound.

Such results as this can easily be accomplished on a small dairy and stock farm in the Ozarks.

It is all a matter of proper feeding. A hog should have a complete ration. First provide an abundant pasture of grasses, clovers, rape, sorghum peas, peanuts and soja beans. These grow abundantly in the Ozarks. When the hog is well grown on these, prepare a balanced ration of ground rye, barley, soja beans, cow peas, adding, during the last few weeks, a little corn to harden the lard and flesh. Pour the warm skimmed milk from the cream separator over this balanced ration, and feed to the pigs in a clean trough, for a few weeks, and they will become great profitable hogs. Keep the hogs clean and do not let them sleep in old straw stacks or pile up together.

Give them pure water, which is plentiful in the Ozarks, and they

will pay you well for your trouble. Do not depend too much on corn for hog feed—it is the highest priced feed on the farm, when relied on entirely. One acre of corn will sometimes produce as little as 150 pounds of pork, whereas the same land, if planted in peanuts, will produce 1200 pounds of pork. Besides, corn takes nitrogen from the soil, while peanuts will put in from \$2.00 to \$5.00 worth of nitrogen, per acre. Furthermore, corn must be harvested and shucked, while the hogs themselves harvest the peanuts.

Plant peanuts, provide movable fences and let the hogs gather the crop and enrich the soil.

Hog raising is just one feature of intensive farming in the Ozarks. Cows, sheep, mules, poultry and fruit are all very profitable.

A small farm devoted to these pursuits will return a big profit on a small investment of cash and labor.



If you will get a small farm in the Ozarks, set out an orchard of well selected varieties, lay out a vegetable garden and berry patch, stock the farm with poultry, cows, pigs, sheep and mules, grow the feeds and grasses you need for them, you will realize a greater profit than you possibly could make on a big grain farm elsewhere.

Furthermore you would live in a beautiful country, in healthful surroundings, free from malaria and away from severe cold and snow. You would be within a few hours of three large markets—St. Louis, Kansas City and Memphis and would have advantage of good local markets, schools, churches, etc.

It will be worth your while to look farther into this. We have some attractive books full of plain facts about the Ozarks. They will interest you. Write for free copies today.



Alex. Hilton, General Passenger Agent, 1509 Frisco Bldg., St. Louis.

ROSEINE PENNSYLVANIA KEROSENE

gives one-third more light; increases home comforts; no odor; no smoke; no explosive gases. Ask your dealer for Roseine Penna. Kerosene. Don't ask him for his "best oil" for that may be just common, dangerous oil that gives a poor, yellow, eye-straining light. If he don't have Roseine, he will get it for you if he values your trade. If the oil he sells you for Roseine isn't the best kerosene in the world, it isn't Roseine. Always shipped in yellow barrels bearing our trade mark "Roseine." Roseine is the ideal incubator oil.

ammonia, which is equivalent to twenty-two pounds of ammonium sulphate, a valuable fertilizer. The further uses of ammonia, however, are so numerous and in the main so well known that their enumeration is unnecessary. Aniline dyes that have become of so great commercial importance are derived from benzol nitro-benzol, a Solvay Coke product. There are a host of other wonderful facts connected with the manufacture of Solvay Coke and the materials produced in the process. A book of intense interest might readily be written on the subject.

TALKING MACHINES ON RAILROAD TRAINS.

A striking example of the rapid advancement being made by the great railroads of the United States for the comfort and entertainment of their passengers is shown by the following instance. The Rock Island Railroad, one of the great western lines, has installed Victrolas (the new style Victor Talking Machines) in the observation salons of its fastest trains running between Chicago and Denver. While the passengers are speeding towards their destinations these Victrolas entertain them with operatic selec-

tions by the world's most famous artists, and with music by the greatest bands and orchestras. The pleasure in listening to these Victrolas recitals is just as real as though the audience were in a theater instead of a fast moving train. The innovation is immensely popular with the patrons of the road, and will no doubt soon be adopted by other great railroads. Not only is this instance an example of the progressiveness of the railroads of the United States, but it also demonstrates the value of the marvelous Victor as an entertainer under all surroundings. Already the Victor is used in great hotels to give pleasure to the guests, and is usually accompanied by the hotel orchestra. Teachers of music use the Victor and Victor records of the voices of great artists in training their pupils. The Victor furnishes the music for large audiences in public parks. In the places of royalty, in the Vatican at Rome, and in the best homes everywhere the Victor holds an honored place. It is truly a wonderful musical instrument. More information about the Victor can be learned from the large advertisement on page 5, or by writing to the Victor Talking Machine Company, 25th and Cooper Sts., Camden, N. J., for their booklet.

When Feet are Tired and Sore

Bathe them with

Glenn's Sulphur Soap and lukewarm water. The relief is immediate, grateful and comforting. Sold by druggists.

Glenn's Sulphur Soap

Hill's Hair and Whisker Dye, Black or Brown, 50c.

ANTI-NICOTINE PIPE

"Get the Pleasure Without the Poison" Trade Mark. The Pipe They Let You Smoke at Home. Looks and colors like meerschaum. Absorbs the nicotine and keeps on tasting sweet. You never had such an enjoyable smoke. Order 3 or More Today. H. MENGES, The Smokers' Friend, 389 N. 7th St., St. Louis, Mo.

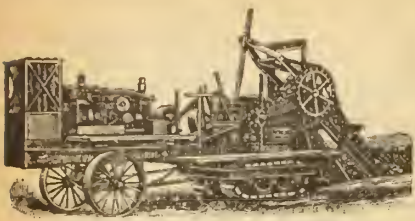


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1200 STUDENTS YEARLY

Teaches all Commercial Branches, Bookkeeping, Shorthand, Typewriting, English, Civil Service, Telegraphy, Official Training School U. P. R. R. Telegraph Department. May work for board. Write today for big free book. H. B. Boyles, Pres.

1807 HARNEY ST. OMAHA, NEBRASKA



PURCHASE AN Austin Tile Ditcher

It will dig from 3,000 to 5,000 lineal feet per day and make you more clear money than the best 160-acre farm in your county. If you have decided to branch out for yourself this year, arrangements should be completed at once, as spring will be here almost before you know it.

The Austin Tile Ditcher is the only ditching machine made that has positively self-cleaning buckets, hence will dig gumbo or sticky clay without clogging.

It is self-propelling and will travel over wet and boggy ground without miring. For further particulars send for Catalog No. 311.

F. C. AUSTIN DRAINAGE EXCAVATOR CO.
Railway Exchange, Chicago, Ill. (1)

Low Wheels Low Lift!

When you load your farm wagon over high wooden wheels it's the last two feet of the lift that hurts. Lifting kills more farmers than pneumonia, consumption and typhoid combined. Cut it out! Get a set of

EMPIRE LOW STEEL WHEELS

for your farm hauling. They cost only half the price of wooden wheels and they save you tire and repair expense, save your team and save you. Write for our illustrated catalog showing Empire Wheels and Empire Handy Wagons.

EMPIRE MFG. CO., Box 285, QUINCY, ILL.



SHEEP.



SHROPSHIRE EWES

YOUNG, registered, exceptional size, extreme type. Bred to English stud rams, champions both continents. Obtaining such ewes would mean your success. Won champion ewe any age, champion Shropshire flock, Chicago International, 1909. America's best flocks have been founded with our ewes. Near Des Moines.

CHANDLER BROS.,
Chariton, Iowa. Shrewsbury, England.

IOWA'S PIONEER BREEDERS AND IMPORTERS OF SHROPSHIRE SHEEP

CHOICE IMPORTED and home-bred registered ewes. Bred to imported rams of the best quality; also rams. Prices reasonable, considering quality.

Daniel Leonard & Sons, Corning, Iowa.

Ewes for Sale

THE IOWA STATE COLLEGE is offering for sale 50 head of pure-bred and grade ewes, mostly Shropshires, at very reasonable prices. Address

DEPARTMENT OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.

Pine Ridge Shropshires One thousand ewes bred to the very best imported rams money could buy. These rams are prize winners, personally selected from the best English flocks last July. Prices reasonable. Write for free booklet, "Hints on Sheep Raising." Address owner, L. M. Hartley, Pine Ridge Farm, Salem, In.

FIFTY SHROPSHIRE EWES

MOSTLY two years old. We wish to sell to make room for more of different breeding, in order to hold our ram trade in this locality. Who can use the bunch at a great discount? Will sell any number. D. M. Norton, Sanborn, Iowa.

HOME OF THE OXFORD DOWNS. Flock in its forty-eighth year, and finds the Oxford to be the money makers in the sheep family. Both sexes for sale. T. B. Evans, Geneva, Illinois.

Registered Shropshire Rams and Ewes For Sale. The best of breeding and quality. Best imported rams at head of flock. Willard Miller, Anna, Iowa.

CLOSING OUT SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. W. C. Frazier, Atlantic, Cass Co., Iowa.



IOWA SHEEP BREEDERS' ASSOCIATION MEETING.

The third annual meeting of the Iowa Sheep Breeders' Association was held at the Iowa Agricultural College, Ames, on Thursday and Friday, December 30th and 31st. Weather conditions were exceedingly unfavorable and as a result the attendance was not as large as it was last year. The president of the association, Mr. O. H. Peasley, in his annual address, called special attention to the importance of encouraging the establishment of small flocks. He pointed out the great benefits that sheep confer upon land in general by weed destruction, and made the claim that no farm animal could make such a showing for the amount of labor spent on it and the amount of food consumed.

In his address of welcome before the association, Prof. C. F. Curtiss made reference to the experiments conducted at the Iowa Agricultural College, in the feeding of sheep. The results of this work show conclusively that the sheep is the most economical producer of all farm animals. He expressed the belief that the sheep industry would flourish more and more in Iowa as tile draining increased, and as men became more familiar with the fact that the sheep is the most economical producer of all farm animals.

Prof. W. C. Coffey, of the sheep department of the Illinois Agricultural College, sent a communication to the secretary of the association. He congratulated the association upon what is being done for the sheep industry in Iowa, and for what the sheep industry is doing for agriculture in general. He pointed out that the sheep business, when rightly conducted, never fails to be profitable under corn-belt conditions. The greatest work for the association to do is to encourage the establishment of healthy little flocks on the great majority of the farms of the state. "The call for fat native lambs," said Professor Coffey, "at the great Chicago sheep market, is sufficiently loud so that we need not be afraid of producing too many of the right sort."

A communication was also received from Mr. M. V. Carroll, secretary of the Missouri Sheep Breeders' Association. He referred to the heroic, organized work of sheep men, in connection with the last congress, to prevent what he considered would be the ruin of the sheep industry by the lowering of the tariff. Mr. Carroll made the claim that republicans and democrats alike, among sheep men, ought not to sacrifice their business interests to their partisan political prejudices. He pointed out that farmers who are complaining that land is getting too high in price to afford a profit to the investor, should engage in sheep raising. He calls attention to the fact that we are now buying sheep from England that were raised on land valued as high as \$1,000 per acre. If it were not for sheep a great many of the English farmers would be bankrupt. In the opinion of Mr. Carroll, Iowa should have at least 5,000,000 sheep and that number would increase the agricultural wealth \$20,000,000 a year. He ventured the prediction that while a great many farmers have left Iowa in recent years, he doubts if a single instance could be shown where a sheep man left the state in search of cheaper land.

A most interesting address was made by a member of the firm of Silberman Bros., of Chicago. The text of this address was "the wool market." It was pointed out that the commission men can handle wool of every possible grade, but as a matter of fact, it is much more satisfactory to handle good wool so that buyer and seller alike are satisfied. The idea was expressed that even the wool grader and the common help on the floors, though they have no more interest in the business than to draw their weekly wage, take pleasure in han-

dling and grading a good lot of wool. As to what constitutes the "best wool" Mr. Silberman pointed out that the Merino, the Rambouillet, the Cotswold, the Lincoln and all the Down breeds produce good wool of their class if the sheep are well taken care of. For a large sheep that matures early, any of the Down breeds are satisfactory, and their cross will produce a wool known to the trade as "medium" which at the present time is more in demand than either the fine or coarse grades. It was pointed out from a standpoint of both wool and mutton that the Rambouillet has perhaps no equal, although the lambs of this breed are not so desirable to the trade as the Down breeds or the coarse wool sheep. There is always a good demand for the wool from the Merino and the finer it is the better market it will find, as it competes with a fine wool from Australia. The demand for, and the popularity of different grades of wool, is regulated almost entirely by fashion, said Mr. Silberman, so it is about impossible for a sheep breeder to strike it right all the time. There is no time when all grades of wool are not being used in manufacturing, but the dictate of fashion is all the time popularizing some one grade and consequently supply and demand affect wool prices, some grades being relatively more valuable than others, on account of the tastes of the people.

Others appearing on the program were Willard Miller, of Anita; E. L. Bitterman, Mason City; Prof. Wayne Dinsmore, and H. H. Kildee, of the Iowa Agricultural College. These addresses will be given in full in the Sheep Department of The Homestead during the next few weeks, and for that reason no attempt will be made here to summarize them.

The officers of the association are O. H. Peasley, Indianola, president; E. L. Bitterman, Mason City, vice-president; E. S. Leonard, Corning, secretary-treasurer.

FIVE BIG PAPERS, \$1.25.

The Iowa Homestead; Twice-a-Week Republic, of St. Louis, the oldest, biggest and best semi-weekly newspaper in the Southwest; Farm Progress, the biggest monthly farm paper printed; The Household, a big monthly story paper, and Needlecraft, a monthly woman's magazine, sent to any address a full year for only \$1.25. The subscription price of all these papers, if taken separately, would be \$2.20. Subscribe for this big combination and get all the reading matter you will want for this coming year. Send orders to the St. Louis Republic, St. Louis, Mo.

BUGGIES ARE NOT FREE.

The Ohio Carriage Manufacturing Company do not advertise free buggies, but they do agree to send, absolutely free of charge, a big book for 1910 which illustrates and describes the split-hickory vehicles and quotes such low prices that no farmer can afford to be without one of the buggies mentioned. The split hickory is good. It proves its durability even through the hardest usage. The manufacturer agrees to send it promptly on thirty days' free trial and on a two years' guarantee, with the understanding that he will save the buyer \$26.50 or more on the purchase price. But the book tells all about it and describes 125 styles of buggies. You cannot afford to miss this book whether you want a buggy or not. At any rate, write for it to Mr. H. C. Phelps, president of the Ohio Carriage Manufacturing Company, Station 31, Columbus, Ohio. See page 20 for advertisement.

NEW HUBER.

There is throughout the West a gradual tendency toward adapting the traction engine to the various uses of the farm which may require power. Few engines of this character have so nearly fulfilled all requirements of furnishing plenty of power with little attention and at the same cost as the powerful new Huber, as advertised on page 13. The Huber is a steam engine, built upon the most simplified practical lines as laid down by the experienced engineers, and has many features to its credit that cannot be claimed by other engines. Complete description, illustrations, prices, etc., can be had by writing to the Huber Manufacturing Company, 624 Center St., Marion, Ohio.

Every farmer will be interested in the new seed catalog just issued by Mr. R. H. Shumway, Rockford, Ill. It contains hundreds of beautiful illustrations and is a perfect mine of information on all kinds of garden and flower seeds. Mr. Shumway has built up an immense business by giving every customer a fair deal and selling good seeds cheap. Send for his catalog today. See advertisement on page 23.

Land-Air & Sea
MOTORING SUPPLIES
BY MAIL
Direct To Your Home
From our own railroad platforms to
ALL PARTS of the WORLD

We Pay the Freight
On all shipments of one hundred pounds or over. It will pay you to get our 1910 224-page

FREE AUTOLOG
Just off the press and being a book of valuable motoring information should be in the hands of every motorist. We will mail copies free providing you state what motor car or motor boat or airship you are using.

KANSAS CITY AUTOMOBILE SUPPLY CO.
69 E. 15th Street, Kansas City, Mo.

LANDS AND HOMES FOR SALE

Money To Loan

On Improved Farms in Iowa and Minnesota
Write for rates and application blanks. Inform us amount wanted and give description of land.

FARM MORTGAGES FOR SALE

Write for list issued each month.

ELLSWORTH & JONES,
IOWA FALLS, IOWA.

MINNESOTA

WELL IMPROVED FARMS FOR RENT

OWNER RECEIVING ONE-THIRD CROP

For further information, address

GEO. WELSH, Commission of Immigration,
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LAND OPENING

IN the famous Arkansas Valley, Colorado. Our irrigation system is one of the best, and our land as fertile as any in Colorado. A reasonable number of tracts now offered at \$30 per acre, with perpetual water right, on terms without interest. This land will quadruple in value within a few years. Close to R. R. and markets. Your railroad fare refunded if you buy. Write for map and booklet. Acts. wanted.

MONSON & MALCOM REALTY CO.,
300 Kirtledge Building, Denver, Colorado.

An Excellent Stock Farm

CONTAINING 330 acres, adapted to blue grass, timothy, clover, corn, wheat, oats and fruits. Good improvements; an abundance of water for stock. Well fenced and cross-fenced with woven wire. Located five miles from Sedalia, Mo. (a city of 20,000 population), and three miles from the Missouri State Fair grounds. Ideal for blooded stock and general farming. This splendid farm may be had at a bargain. For full description, price and terms, address

C. W. Daugherty, Box 10, Sedalia, Mo.

For Sale--100-Acre Farm

ONE-HALF mile west of Tingley, Iowa; well improved; good house; large barns and all kinds of other outbuildings. Will be sold cheap if taken soon. Address owner, E. E. White, Ellston, Iowa.

IMPROVED FARMS FOR SALE

In all parts of Washington. Send for list. **SAMUEL COLLYER,**
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IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advance so rapidly in price. Illustrated literature. Write today. **Ernest T. Thomson,** Crawford Block, Sedalia, Missouri.

A SNAP FOR CASH FORTY ACRES

irrigated in the **WONDERFUL BITTER ROOT VALLEY** 1,600 fruit trees; brand new fencing; fine water; new 6-room house; good barn—5 miles from lively town. **L. GOODWIN,** Ashland Block, Chicago, Ill.

For Sale By Owner

80 ACRES rich, fertile, smooth land; fine orchard and grove; no buildings; as good land as any in southeast Kansas; one mile to Vernon, Woodson Co.; \$2,400 cash. Write **J. E. Seaton,** R. 2, Spencer, Ia.

SOUTH DAKOTA

FARMERS AND RENTERS—Why not secure

one of my farms in Stanley county at \$15 per acre or in Hand county at \$30 before the price has advanced in the spring? **JAY P. MORRILL,** Palace Building, Minneapolis, Minnesota.

IRRIGATED LANDS

In Colorado, under perfect ditch system. Unsurpassed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R. R. Superior local and foreign market. In tracts from 5 to 1,000 acres at \$100 and up. **ORDWAY LAND CO., ORDWAY, COLO.**

Virginia Farms and Homes

FREE CATALOG OF SPLENDID BARGAINS. **R. B. CHAFFIN & CO., Inc.,** Richmond, Va.

100,000 Fruit, Dairy and Poultry Farms in Missouri

\$2.50 per acre and up. For full particulars ask Mo. State Immigration Commission, Springfield, Mo.

LANDS AND HOMES FOR SALE

\$100,000

TO INVEST IN GOOD

Iowa Farms

We are desirous of purchasing several good farms in Iowa.

—IS—
YOUR FARM FOR SALE
?

SEND DETAILED description in first letter. Don't reply unless your farm is a bargain.

GALLOWAY-GIBSON INVESTMENT CO.

Real Estate, Mortgage Loans, High-Class Investments and Securities for Sale.

Capital Stock WATERLOO,
\$250,000.00 IOWA, U. S. A.

Colorado Irrigated Land

22,000 acres of irrigated Government land in Southeastern Colorado has recently been opened for entry under the provisions of the Carey act. The State of Colorado has contracted with the Two Buttes Irrigation and Reservoir Company to construct the irrigation works for the reclamation of this tract of land, which is located in Baca and Prowers counties, close to Rocky Ford and other proven districts. Water rights are of incontestable priority and title to land comes direct from the State.

Price of Land 50 Cents Per Acre
Perpetual Water Right \$35 Per Acre

Payable \$5.25 per acre cash, balance in ten annual payments. The tract is nearer Kansas City and Mississippi Valley markets than any other Carey act project. Land free from brush and stone, and soil will average 50 feet in depth. Altitude, 4,050 feet; climate best in State; rainfall 16 inches; crops, all grains, alfalfa, sugar beets, vegetables and fruit; no alkali. Local markets for everything.

No agents employed and no commissions paid. Farmers wanted, not speculators. For particulars write,

THE TWO BUTTES IRRIGATION AND RESERVOIR CO., LAMAR, COLORADO.

Iowa Corn and Alfalfa Farms

142 1-2 ACRES-- Adjoining small country town, all level, black loam soil, first-class buildings and no waste land; rents for \$5 per acre cash; cash price for short time, \$35 per acre on easy terms. 145 acres, adjoining town of Onawa, all the finest kind of corn and alfalfa soil; buildings small; all in one body, no waste land; a snap at \$125 per acre, on very easy terms. Come and examine these lands. If you don't find them as described above we will pay all your expenses for the trip. Write at once to

H. L. CRAVEN & CO., ONAWA, IOWA.

LAND OPENING!

The beautiful Jaritas Valley in New Mexico is opening for settlement.

4,000 acres of fine, smooth, IRRIGATED land; every acre within four miles of El Paso & Southwestern Railway. Deep, loamy soil; abundant water; fine climate; reasonable price; easy terms. Water for 1910 crop.

The Jaritas Valley lies close to the Colorado and Oklahoma State lines.

Write today for FREE particulars, map, rates, etc., to

THE JARITAS VALLEY LAND BOARD,
Midland Building, Kansas City, Mo.

IF YOU MEAN BUSINESS

IT WILL PAY YOU TO INVESTIGATE THIS. 160 acres in Sumner county, Kansas, 3 miles from a good town, close to school; 100 acres in cultivation, 60 acres in pasture; good 4-room house, good barn for 6 head of horses, mow, good orchard and grove. Price \$6,000. We have a number of other farms which we can give you possession of March 1, 1910, at \$40 to \$50 per acre. Sumner county is the Banner Corn County in Kansas. **BRADSHAW & MOTT, MANHATTAN HOTEL BUILDING, WICHITA, KANSAS.**

CHOICE TEXAS PANHANDLE FOR IOWA LAND

We have some of the choicest land in the heart of Texas Panhandle for cash sale, or will exchange at cash value for Iowa land, income property or merchandise. Can show alfalfa farms worth \$100 per acre near this land. Neighborhood settled with northern farmers. Easy terms for cash. Write today, describing fully what you have.

THE KELLY LAND SYSTEM,
Room H. 17, News Arcade, Des Moines, Iowa.

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address

The Allen Co. Investment Co., Longton, Kan.

CORN, wheat, alfalfa and all other grasses grow to perfection in Northeast Kansas. I have special bargains in 80, 100, 130, 350 and 480-acre farms close to good towns near here. Price from \$45 to \$85 per acre. Dark loam soil, lies just right. Some fine tall timber and improved good enough for anyone. Write for free list. S. M. Strawn, Valley Falls, Jefferson Co., Kan.

Rich Orange Land

In Fertile El Cajon Valley, One
of the Beauty Spots of Sunny

Southern California

Per Acre \$3.00 Per Month

For the first time the best El Cajon orange lands are being subdivided and sold on small monthly payments. This offer is made by a thoroughly reliable company, and all details will be furnished so that the Eastern resident can invest almost as intelligently as the local buyer. It enables the man who desires to have a home in Southern California, but who is not yet prepared to change, to secure land rapidly growing in value—land ready to produce a living for himself and family at any time he cares to go upon it. Send for our

Beautifully Illustrated Booklet

"El Cajon Valley Homelands," which is free. We offer five acres of this rich frostless orange land—enough to produce a splendid living—with water, for only \$750, on payments of \$15 down and \$15 monthly, without interest. Taxes paid. Title absolutely guaranteed. Surrounded by prosperous orange groves; near high school, church and store; 15 miles from San Diego and the ocean. Good transportation facilities. Bearing orange orchards easily bring \$1,000 per acre; young groves at least \$500 per acre. Make YOUR start now. Address

J. Frank Cullen Company

San Diego, California.

WHAT'S THE MATTER WITH KANSAS?

F. D. Coburn, Secretary of Agriculture, says:—"This year (1909) Kansas produced in farm products and live stock, over \$32 million dollars' worth. The U. S. Government report (December 10th) estimates that Kansas will raise 112 Million bushels of wheat in 1910. This is 60 Million bushels more than the highest estimate of any other state in the Union."

We have nearly 100,000 acres in Hamilton and Greeley counties in the wheat, alfalfa and broom corn belt of Kansas, that we are selling from \$10 to \$17.50 per acre in tracts of 160 acres and up, on five years' time.

Our land is near Syracuse, Kansas—only one night's ride from Kansas City—six hours from Wichita. Write us for particulars.

JACKSON REALTY COMPANY (owners), 113 Gibraltar Building, KANSAS CITY, MO.

When Writing to Advertisers Please Mention This Paper



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HIDE YOUR SAVINGS IN THE SILVER TEAPOT

IF YOU have worked hard and laid a little aside, don't hide it in the silver teapot.

Buy a piece of **Sunny Southern Alberta** land,—Farm it right and you will become independent in a short time. Good cheap land will soon all be gone.

Sunny Southern Alberta offers opportunities for "Money Making" which cannot be found in any other section of the country.

Sunny Southern Alberta is the greatest small grain country on the American Continent.

For full information about this wonderful country clip the attached coupon and mail today---We will send you our new 64 page book and full information about this country.

WESTERN CANADA

What J. J. Hill, the Great Railroad Magnate, Says About Its Wheat-Producing Power:

"The greatest need of this country (United States) in another generation or two will be the providing of homes for its people and producing sufficient for them. The days of our prominence as a wheat exporting country are gone. Canada is to be the great wheat country." J. J. Hill.

This great railroad magnate is taking advantage of the situation by extensive railway building to the wheat fields of Western Canada. Upwards of

125 Million Bushels of Wheat were harvested in 1909, and the average of the three provinces of Alberta, Saskatchewan and Manitoba will be upwards of 25 bushels per acre. Free homesteads of 160 acres, and adjoining pre-emption of 160 acres (at \$3 per acre), are to be had in the choicest districts.

Schools convenient, climate excellent, soil to very best, railways close at hand, building lumber cheap, fuel easy to get and reasonable in price, water easily procured, mixed farming a success. Write as to best place for settlement, settlers' low railway rates, description of land, and to become independent. You don't have to move to town. Work Saturdays. Write for our FREE Book today. NOW.

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We Want YOU

We want a good, live man to handle real estate and loans in your vicinity. Farmers make the best real estate men. You can make more money selling farms than farming them.

We Pay BIG Commissions and start you right. We train you from the beginning so you can assist us in handling real estate and loan deals, and to become independent. You don't have to move to town. Work Saturdays. Write for our FREE Book today. NOW.

MORDEN LAND & LOAN CO.,
Instruction Department,
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Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana in Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit; truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops.

NO IRRIGATION SCHEME, 60 inches annual rain fall, beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. **J. D. LaBRIE, Gen'l Land Agent Pineland Mfg. Co., 633 Keith & Perry Bldg., Kansas City, Mo.**

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also ¼ section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

THE O. W. KERR COMPANY,
Minneapolis.

Geodem:—
I am interested in knowing more about Sunny Southern Alberta. Send me full information about this wonderful country and its opportunities.

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City _____
County _____ State _____

Prevention of Swine Cholera by Inoculation.

Careful and persistent attention to general preventive measures, such as quarantine, disinfection, proper feeding, etc., on the part of farmers generally would no doubt result in a material reduction in the yearly losses from hog cholera, and the importance of observing these precautions cannot be overestimated. However, as it is regarded as impracticable to enforce a general and completely effective quarantine, the bureau of animal industry has endeavored for a number of years to find a medicine or serum which could be used for preventing hog cholera or for curing hogs sick of that disease. It is a well-known fact that hogs which have recovered from hog cholera are thereafter immune against that disease. The experiments of the bureau of animal industry resulted in the discovery that when such immunes are injected with blood from a sick hog the immune is not made sick, but as a result of this injection its blood acquires the power to protect other hogs from cholera. It is entirely possible to protect hogs if they are treated with serum from a properly treated immune hog.

A vigorous hog—that is, one which has recovered from attack of hog cholera or one which has been exposed to the disease without contract-

ing it—is treated with a large quantity of blood from a hog sick of hog cholera. After a week or two blood is drawn from the immune by cutting off the end of the tail. After standing, the blood clot is removed and the serum or fluid portion of the blood is mixed with a weak solution of carbolic acid and filled into sterilized bottles. We have in this fluid portion of the immune's blood the serum which will protect hogs from hog cholera. This serum is used in either one of two ways, namely (1) the serum inoculation, and (2) the simultaneous inoculation. These two methods of treatment are carried out as follows:

The hogs which are to be protected are injected on the inside of the hind leg with a suitable dose of the serum alone. This injection will serve to protect hogs from hog cholera for several weeks and, in some cases, for a longer time. But if the hog is not exposed to hog cholera within a few weeks after this treatment, the immunity which is conferred by the serum will gradually lessen in degree and the hog may again become susceptible. If, however, the hog is exposed to hog cholera within a short time after the injection of the serum, the immunity becomes, so far as experiments have shown, of permanent and lifelong duration.

From what has been said it will be seen that the injection of the serum alone is especially to be recommended in cases where there is immediate danger of exposure, especially when valuable hogs are carried to fairs and in herds where the disease has already broken out, but has not progressed very far. In herds of this character all of the well animals may be treated, and even in the case of slightly sick animals much good may be accomplished by the serum injection.

In this form of vaccination the same serum is used as is employed when the serum alone is used, but in addition to the serum there is injected on the opposite side of the body, in the same manner as the serum, a very small amount of blood taken from a hog sick of hog cholera. This simultaneous injection of serum and virulent blood confers upon the injected pig a permanent and lasting immunity, and is therefore, to be recommended in cases of well herds which may not be exposed for some months after the treatment.

Properly prepared serum when used alone, without the employment of blood from a sick hog, is entirely harmless and incapable of giving rise to an attack of hog cholera. Nor does this injection interfere in any way with the growth of the treated hogs.

The simultaneous inoculation, involving as it does the use of a disease-producing virus, requires much more care when employed than does the serum-alone inoculation, for, if through careless preparation or from any other cause the serum should be weaker than is required, injury to the vaccinated hog might result. This danger, which is extremely slight when carefully tested serum is used, is met with in practically all processes which are

THIS DEVICE WILL SAVE ONE-THIRD YOUR FUEL On Any Gas, Gasoline, Kerosene or Distillate Engine

"The Hotter the Spark the Better the Combustion," is a well known principle of Gas Engineering. Batteries give out quickly, Spark Coils eat up current, and thereby cause endless expense and trouble—just when needed the most. Poor ignition from batteries causes misfires, slow ignition or combustion and thereby increase your fuel expense by one-third to one-half. You can save this wasted fuel, get the maximum power, by installing

THE MOTSINGER AUTO-SPARKER

No Battery Needed to Start the Engine

Delivers a white-hot spark for a lifetime. This device is a simple, fool-proof dynamo. It will continuously deliver an intensely hot spark with from 3 to 15 volts behind it (adjustable to suit). We don't know how long the Auto-Sparker will last, for those put out ten years ago are still "delivering the juice"—few have required repairs or replacements. See your dealer or write direct for prices and money-saving details. Learn how to run your engine for one-half to one-third your present cost; also how to charge storage batteries for ignition and lights.

TO DEALERS—The demand from those operating internal combustion engines of all kinds is so constant and certain that you can safely stock the Auto-Sparker. We protect you against loss by **GUARANTEEING THE SALE**. Ask us about it.

MOTSINGER DEVICE MFG. CO., Box 160, Pendleton, Ind.



Attached to Stationary Gas Engine

now employed for producing a permanent and lasting protection against infectious diseases, and although it would be very desirable to eliminate even this slight element of danger, we can hardly expect to do this without at the same time sacrificing to some extent the high degree of immunity and the prolonged protection which follows the simultaneous method in its present form.

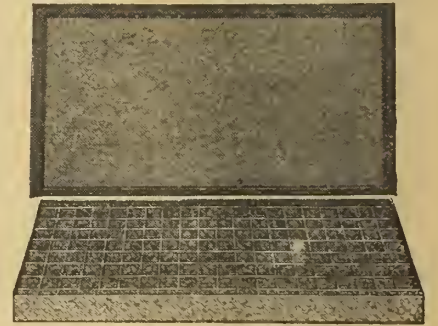
Practically, in deciding which method to use one must be governed largely by the length of immunity which is required. If this is needed for only a few weeks, or if the treatment can be repeated at short intervals, as in the case of exceptionally valuable pure-bred hogs, where the increased cost would not be objected to, the serum alone may be used. In other cases the simultaneous method is recommended. In either process of vaccination it is considered highly desirable for the treatment to be applied by competent veterinarians who have had special training in this class of work, and only such skilled men should employ the simultaneous process. After treatment by the simultaneous method the herd should be kept under observation for ten days or two weeks, and if any of the inoculated hogs show serious symptoms of disease the herd should be immediately re-treated with the serum alone. When properly performed, the simultaneous inoculation does not seem to injure the hog or to interfere with its growth in any way, and if the precautions indicated above are taken it is regarded as safe enough for practical use.—(Bulletin from Dept. of Agriculture.)

The force exerted by growing plants is often very great, says the London Globe. Cases of growing fungi lifting heavy flagstones in cellars or pavements are frequently recorded. A plant of rhubarb has been known to lift the hearthstone in a house built on the site of an old garden. And in the bulletin of a certain botanical club Mr. Stone relates the remarkable feat of an ostrich fern growing near his house. The rhizomes of the fern would appear to have run beneath an exceptionally hard tar-concrete pavement two and one-half to three inches thick. Young shoots of the fern frequently force their way up through this. By experiments with a weight-lever Mr. Stone estimated that a

force of 190 pounds would be required.

CORN TESTERS IN DEMAND.

The very severe freezes of October made more than 50 per cent of the corn of the corn belt unfit for use as seed. This has resulted in a tremendous demand for seed corn testers, as no farmer who realizes the true condition will feel safe in planting without individual testing of kernels from each ear used in planting. Among the testers having the greatest sale is Holden's Ideal Tester, made by the National Seed Tester Company, 1105 Walnut street, Des Moines, Iowa. This tester has an exclusive feature covered by patent which can be employed by the manufacturer of no other tester. Water only is used in making the test in this tester. No dirt, sawdust or sand, which hides the development of the roots, is used. This is very important, as the development of the roots should be watched as closely as that of the sprouts. It is claimed by many corn authorities that the cause for the large percentage of the barren stalks is due to inferior root system. Because of the water test, Holden's Ideal Tester insures an even sprouting of all of the kernels. In the ground, soft, starchy, immature kernels take the moisture quicker than the hard, oily kernels and germinate quicker. In the Holden tester, the soft kernels are held back and each kernel is given an equal chance. All are made to germinate at once, and, when the test is



HOLDEN'S IDEAL CORN TESTER.

completed, it is a very easy thing to glance over the trays and pick out those seeds which show both good tops and good sprouts. This tester handles a new batch of corn every four days. The real work employed in making the test takes only a few minutes. It is a pleasure in which the whole family participates and, as one farmer put it, has done more to teach his sons up-to-date farming than anything that has come into their home for many years. The National Seed Tester Company, manufacturers of the Holden tester, will probably not be able to supply the demand, as farmers everywhere realize that to insure a good corn crop for the coming season every ear must be tested. We therefore suggest that our readers look up the large advertisement of this company on page 7 of this issue and give the matter the careful consideration to which it is undoubtedly entitled.

Farmers! Look Here

WHY DEPOSIT YOUR MONEY IN BANKS WITHOUT ANY SECURITY?

We are loaning thousands of dollars at 6% on Iowa farms. We loan up to 50% of cash value and get first mortgage. We personally guarantee all loans. It will pay you to get all particulars. Write today.

GALLOWAY-GIBSON INVESTMENT CO.

Real Estate, Mortgage Loans, High-Class Investments and Securities for Sale.

Capital Stock \$250,000.00 WATERLOO, IOWA, U. S. A.

AN UNBREAKABLE, ADJUSTABLE PUMP HANDLE

Body of handle made of pressed steel—points of contact made of malleable iron.



Wearing parts can be replaced. Adjustable fulcrum block renders handle suitable for any pump, easily adjusted; handier. Non-breakable; cold weather and frost have no effect. Ask your dealer for our Pressed Steel Handle, Top, and Pumps. KENYON PRESSED STEEL PUMP CO., TAMA, IOWA.

COOK YOUR FEED and SAVE Half the Cost—with the PROFIT FARM BOILER

With Dumping Caldron. Empties its kettle in one minute. This simplest and best arrangement for cooking food for stock. Also makes Dairy and Laundry Stoves, Water and Steam Jacket Kettles, Hog Scalders, Caldrons, etc. Send for particulars and ask for circular P. D. R. SPERRY & CO., Batavia, Ill.

TENTS TO RENT FOR STOCK SALES

We make machine and stack covers. Get our prices.

Peoria Tent & Awning Co., 119 Main St., Peoria, Ill.

"MORE POTATOES"

From ground planted secured by use of the KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for catalog, price and full description. A. J. PLATT, Mgr., Sterling, Ill.

WANTED Aged couple to keep house and assist single man. Good home and deal for right kind. Man must be good hand to care for stock, especially hogs. Must furnish reference; would consider partnership deal in well-established herd purebred Durocs; must have \$500. Jos. Cruise, Mt. Ethna, Ia.

LEARN TO BE AN ARTIST

Start big money. Failure impossible. Send 10c stamps. Stencil Art Co., Baltimore, Md.



PRIZE-WINNING RED POLLED CATTLE, INTERNATIONAL LIVE STOCK EXPOSITION, 1909, INCLUDED IN THE ARP-CLOUSS-CONVERSE SALE AT SIOUX CITY, IOWA, JANUARY 1911. SEE ADVERTISEMENT ON PAGE 52.

SHIP US YOUR HIDES

We Are Tanners

Of horse, cattle and all kinds of hides. We'll make your horse or cow hide up into a warm fur coat, robe, rug or mittens.

In our process of tanning each hide is made even in thickness, soft and pliable; also moth proof.

All our work is guaranteed and is of the highest quality of workmanship.

Don't ship a hide until you hear from us. Send a postal now asking for **Our FREE Booklet**

Tells you about hides, how to care and prepare hides for shipment, with price list on work, etc.

Write Today

DES MOINES TANNING CO.

Dept. A Des Moines, Iowa

ESTABLISHED 1890.
Phone 21.



Furs Wool Hides

Get my prices before selling. Give me your name and address and I will keep

you posted on the markets. Our aim: **Too Prices and Satisfied Customers**

E. D. CLAGG,
323 Central Ave., Fort Dodge, Iowa.

We Want a Local FUR BUYER In Every Locality

Will make you a guaranteed price and take your furs straight. Write us for information. Price lists to trappers.

Pember's Hide and Fur House
Drawer 5, ONAWA, IOWA.

Ship us the Hides We do the rest

Get Our FREE Book

This book tells all about Tanning; "How to care for hides;" "How to ship;" "Prices for tanning and making coats and robes;" and "Our iron-clad guarantee". If you are not satisfied you owe us nothing.

COATS AND ROBES

We have made thousands of fur coats and robes for others, so you are absolutely safe in sending your hides to us. Nearly every farmer knows the "Cowles." Send for free booklet today.

COWNIE TANNING COMPANY
100 2d Street, DES MOINES, IOWA.

It Will Pay You To

Ship Us Your HIDES

YOU can have a warm, serviceable fur coat made from your cow or horse hide that will wear you for years.

We tan and make them up into soft and pliable coats, robes and rugs, moth and waterproof and guarantee the work. Write us today for our **FREE BOOKLET**

It tells you all about hides.

Des Moines Tanning Co.,
Dept. A Des Moines, Iowa.

Can the Farmer Produce Alcohol Profitably?

When the denatured alcohol law was passed by congress it was thought by many that the removal of the tax from alcohol in this manner would enable the farmer, or at least a community of farmers, to utilize for alcohol production the fermentable materials of the farm that could not otherwise be marketed. One of the principal objects of the Congressional Act of August, 1907, amendatory to the denatured alcohol law passed in June, 1906, was to encourage the small alcohol producer by relieving him from practically all of the internal revenue regulations that still hamper the large producer. As a rule the individual farmer is still unable to take advantage of such legislation because of the large outlay of capital necessary to install even a small plant that will make alcohol of the strength required for denaturing (90 per cent); besides any material suitable for fermentation can also be fed, or otherwise utilized on the farm without the necessity of the outlay of so much capital even though the profits may be less.

Perhaps the only way in which alcohol will ever be made by the farmer, or even a community of farmers, will be after the passage of a law which will permit them to produce alcohol of about 100 degrees proof in cheap fire pot stills, and then permit the shipping of this dilute alcohol under bond to a central concentrating and denaturing plant. To produce 100 gallons of alcohol of this strength would require about \$250 for a complete fire still, while a distillery producing 90 per cent alcohol with a capacity of 500 gallons per day would cost about \$15,000. Any farmer can operate an ordinary fire pot still for the production of 50 per cent alcohol without the necessity of high-priced skilled labor, which is necessary with the high wine stills. Then too, while there are many communities that have farm products that could be utilized for alcohol production, those having sufficient for the economic production of 90 per cent alcohol are extremely limited.

Farm products that can be utilized for alcohol production may also be used for stock feeding or other purposes. The most profitable method for their utilization depends upon a number of circumstances. A bushel of corn costing fifty cents will produce about nine pounds of meat when fed to a steer. If this meat sold for six cents per pound fifty cents' worth of corn would produce only fifty-four cents' worth of meat. This would mean a gain of only four cents per bushel, but the feeder also gains the increase in price that a fattened steer would sell for, which may amount to considerable when the feeding is done near a good market, but in many localities the only gain would be that resulting from an increase of flesh on the animal. The same fifty cents' worth of corn when converted into alcohol would produce 2.2 gallons, worth eighty-eight cents, at forty cents per gallon. As stated elsewhere the gluten meal formed as a by-product in this process is said to pay for the cost of the alcohol produced. If such is the case a profit of thirty-three cents per bushel would result. In any event the profits resulting from the production of alcohol from corn would apparently be more than would be obtained in feeding the corn to steers.

If twelve tons of sugar beets with 15 per cent sugar are raised per acre, and these can be sold at \$5 per ton for the purpose of manufacturing sugar, they would bring \$60. If we assume that of the 3,600 pounds of sugar, which these twelve tons of beets contain, each forty pounds will produce the same amount of flesh in feeding steers as a bushel of corn, there would result 810 pounds of flesh which, at six cents per pound, would be worth \$38.60. If, however, these 3,600 pounds of sugar be fermented \$69.76 worth of alcohol at forty cents per gallon would be produced, when only 64 per cent of the sugars are fermented. The cost of manufacturing this much alcohol at fifteen cents per gallon would be \$26.16, but the residual beet pulp obtained as a by-product would have some value as a cattle food.

If the tuna (fruits of the prickly pear) has 10 per cent of material that

FUR WOOL

If you want the HIGHEST PRICES for Furs and Wool, write to me today for Price Lists and Special Information.

HERMAN REEL, Milwaukee, Wis.



RAW FURS WANTED!

I especially want quickly several thousand Mink, Skunk, Raccoon, Fox, Wolf, Wild Cat and Lynx. I can use 200,000 Muskrats in the next 30 days at extreme high prices. Write for prices. Shipments solicited

O. G. SHAWAKER

338 E. Superior St., Duluth, Minn.

HIDES AND FURS

HIGHEST market price paid for Furs, Cattle and Horse Hides—Pelts, tallow, wool and ginseng. Write us for shipping tags and price list. Checks sent same day. Reference any bank in Mankato. **MANKATO HIDE & FUR COMPANY,** Mankato - Minnesota.

TAN HIDES

SEND us your hides and we will tan them and make your robes, coats, mittens or rugs. All work guaranteed. Water soft and malt proof. Cash paid for hides and furs. **Sioux Falls Robe & Tanning Co.,** Sioux Falls, So. Dakota.

WE WANT YOUR SMALL CATCH OF Raw Furs and Custom Tanning

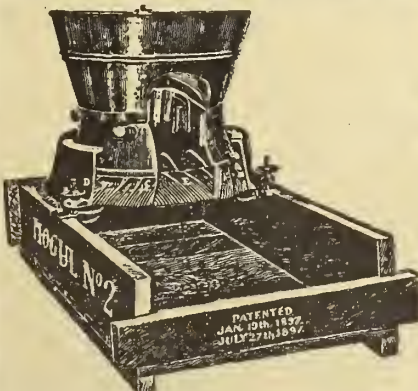
W. W. Weaver, Custom Tanner, Reading, Mich.

is equivalent in feeding value to corn, then 560 pounds of tunas would be required to produce nine pounds of meat, the amount produced by a bushel of corn. This means that 560 pounds of tunas would produce fifty-four cents worth of meat at six cents per pound. If these 560 pounds of tunas contained 10 per cent fermentable matter they would yield four gallons absolute alcohol, or \$1.60 worth at forty cents per gallon. If the cost of manufacturing the alcohol amounted to sixty cents on this quantity, there would be left a margin of \$1 as against fifty-four cents when the fruits were fed to steers.—(New Mexico Bulletin.)

"Will O'Neal," says a Missouri newspaper, "will return to the farm next spring. He came to town to rest, but people offered him too much work and he says he preferred to do the work rather than always be running from it. He will go back to the country, where he can sit on the porch and watch the stock grow."

BOVEE'S MOGUL.

The advertisement of the Bovee Grinder & Furnace Company is always a prominent feature in our columns during the winter months. At the present time special attention is being paid to feed mills and the Mogul grinder No. 2 in particular. This grinder is illustrated herewith. The cut shows the wonderful simplicity of the machine and also explains why the work is so thoroughly done. The Mogul No. 2 has a capacity equal to any other machine with



the same power, grinds to any degree of fineness, and is one of the most durable machines made. The Mogul machines have been in the market for a great many years and their friends are too numerous to be counted. For special low holiday prices and complete illustrated descriptions write to the Bovee Grinder & Furnace Company, 100 Eighth street, Waterloo, Iowa.

Ask your neighbor to subscribe for The Homestead.

buyers are expensive. We have none on the road. The 10 per cent, saved thereby we give to our shippers. Would you not like to be one of them? Send for price list and ship to **M. F. PFAELZER & CO.,** 6 EAST 12th STREET, (Desk 5) NEW YORK.

Ship Hides

We absolutely guarantee our tanning process. It leaves hides soft and pliable; will last longer and wear better than work done elsewhere. In addition we save you money. **WE MAKE**

Fur Coats, Robes, Etc.

We'll not only tan the hide but will make it up into serviceable warm fur coat or robe; from the scraps that other people waste we will make you a pair of fur mittens. All work guaranteed. Write for free booklet about tanning and price list of what we pay for raw furs. Dept. A

M. L. GLICKMAN & CO.,
DES MOINES, IOWA.
205 Court Ave.

CASH FOR FURS

You get the highest prices and the quickest returns when you ship your furs to Funsten. We receive and sell more furs direct from trapping sections than any house in the world. The biggest American and foreign buyers are represented at our regular sales. The fierce competition among buyers enables us to get higher prices than anyone else. That's why we can send you the most money for your furs, and send it quicker. Trappers' outfits furnished at cost.

Big Money in Trapping

While work is slack, do some trapping. It pays big profits. We send our Trapper's Guide, Fur Market Reports and Shipping Tags FREE. Write today for Catalog C and New Trapper's Guide, full of success and money-making secrets—ALL SENT FREE. (3)

Funsten Bros. & Co., 91 Elm St., St. Louis, Mo.

Ship Us Your Hides

WE are tanners of cattle and horse hides. Make Coats double-breasted with braid down the front, best quality of quilted lining, bar buttons and cord, for \$8; tanning included for \$12.50. Line robes with A No. 1 wool plush for \$4; tanning and lining complete for \$3.50; and guarantee all our work. Write for free price list, booklet and shipping tags.

GLOBE TANNING & MFG. CO.,
222 S. E. 1st St., DES MOINES, IOWA.

SHIP YOUR HIDES & FURS

direct to Biggs & Koch and you will get the highest prices and save all commissions. A square deal and quick returns. Full weights and honest grading. One hide, one skin or a car load. No matter whether you are a trader or trapper, farmer or dealer we can do you good and make you money. It will pay you to write us for price list and FREE shipping tags. Fur shipments held separate on request, and your furs back if our returns are not O. K. "Trappers Guide" free to shippers. Write today for catalogue of Trappers supplies.

BIGGS & KOCH,
954 Liberty St., Kansas City, Mo.
Largest hide and fur house in Southwest. Estab. 1882

NORTHWESTERN TANNING CO.,
Box E,
Albert Lea, Minn.

References:
First Nat. Bank,
Citizens Nat. Bank
of Albert Lea.

Only Tannery in Southern Minnesota. Soft, silky coats, robes, mittens and other articles, made up from your hides at low prices. Don't do a thing till you write to us. Learn why we outdo them all. Harness leather, too, at small cost. Practical, honest work. This is why we grow. Write today.

Highest market price paid for hides.

SHIP YOUR FURS HIDES and PELTS

To McMillan Fur & Wool Co.
MINNEAPOLIS, MINN.

Illustrated Circular Free to anyone interested in RAW FURS.

Trappers' Guide Free to those who ship to us

BAYER TANNING CO.

Tanners of cattle and horse hides for coats, robes, rugs, harness, lace leather, etc. 40 years' experience; commenced tanning buffalo robes in 1872. You'll get a square deal with no regrets. Write for booklet of information on handling and shipping hides; also price list. Address **105 S.W. 9th St., Des Moines, Iowa.**

When writing to advertisers please mention this paper.

Dates Claimed for Live Stock Sales.

DUROC JERSEY SWINE.
Jan. 24, T. W. Stoner & Son, Henry, Ill.
Jan. 24, A. L. Mossman & Son, Radcliffe, Ia.
Jan. 25, Stansell & Matron, Henry, Ill.
Jan. 25, C. E. Veak, Essex, Iowa.
Jan. 26, R. C. Veenker, George, Iowa.
Jan. 26, S. J. Madison, Xeniville, Iowa.
Jan. 26, W. R. Hainline, Blainville, Ill.
Jan. 27, Sexsmith & Strong, Greenfield, Ia.
Jan. 27, C. A. DeVaul, Inwood, Iowa.
Jan. 28, H. S. Allen, Russell, Iowa.
Jan. 28, Edwin Hummer, Iowa City, Iowa;
C. R. Mills, Central City, Iowa; Patten &
Morris, Springfield, Iowa, at Cedar Rapids,
Iowa.
Jan. 31, Olson Bros., Woodward, Iowa.
Feb. 1, John H. Tryon & Sons, Lyons, Neb.
Feb. 1, W. R. Bennethum, Madrid, Iowa.
Feb. 1, Isenbarger Bros., Battle Creek, Ia.
Feb. 1, Geo. Schmal, Sutton, Neb.
Feb. 2, F. B. Butterfield, Ankeny, Iowa.
Feb. 2, Thomas Gossard, Ponca, Neb.
Feb. 2, Balmat & Son, Mason City, Iowa.
Feb. 3, Edmonds, Shade & Co., Kingsley, Ia.
Feb. 3, Geo. H. Purdy, Mason City, Iowa.
Feb. 4, H. L. Cantine, Quimby, Iowa.
Feb. 7, Whitehall Farm, Yellow Springs, O.
Feb. 7, John Goddard, Harlan, Iowa.
Feb. 8, S. E. Eakle & Sons, Prophetstown, Ill.
Feb. 8, Watt & Foust, Dayton, Ohio.
Feb. 8, S. W. Stewart, Kennard, Neb.
Feb. 9, Henninger Bros. & Smith, Geneseo, Ill.
Feb. 9, O. S. Larson, Logan, Iowa.
Feb. 9, Ira Jackson, Tippecanoe City, Ohio.
Feb. 9, J. B. Davis, Fairview, Kan.
Feb. 9, C. E. Walden, Washta, Iowa.
Feb. 10, Geo. B. Buck & Geo. L. Miller,
Sunny Hill, Ill.
Feb. 10, S. E. Morton & Co., Dayton, Ohio.
Feb. 11, Mahan Bros., Osborn, Ohio.
Feb. 11, O. E. Osborn, Weston, Iowa.
Feb. 11, E. J. Brown, Osceola, Neb.
Feb. 12, A. F. Hager, Avoca, Iowa.
Feb. 17, Frank Elder, Green, Kan., at Clay
Center, Kan.
Feb. 17, A. W. Lamb, Albion, Neb.
Feb. 18, A. R. Barnes, Petersburg, Neb.
Feb. 21, W. C. Cameron, Herman, Neb.
Feb. 22, R. L. Wilson, Chester, Neb.
Feb. 23, G. Van Patten, Sutton, Neb.
Feb. 24, Bardwell & Barnard, McHenry, Ky.
(Sale at Louisville, Ky.)
Feb. 24, Geo. Briggs & Son, Clay Center, Neb.
Feb. 25, Con McCarthy, Henderson, Neb.
Feb. 26, T. J. Link, Winterset, Iowa.
Mar. 9, Lien Bros., Platt, S. D.

**SOUTHWESTERN NEBRASKA DUROC
SALE CIRCUIT.**
Jan. 25, Frank Alldritt, Friend, Neb.
Jan. 26, Wm. M. Sandstead, Holdrege, Neb.
Jan. 27, T. J. Current, Hildreth, Neb.
REPPERT'S WESTERN SALE CIRCUIT.
Feb. 14, E. Z. Russell, Blair, Neb.
Feb. 15, M. S. Moats, Missouri Valley, Iowa.
Feb. 16, C. W. Huff, Mondamin, Iowa.
Feb. 17, Jno. R. Tupper, Woodbine, Iowa.
Feb. 18, W. L. Hull, Logan, Iowa.
Feb. 19, E. B. Ryan, Neola, Iowa.

POLAND CHINA SWINE.
Jan. 24, G. W. Seffrit, Lucas, Iowa.
Jan. 24, Thompson Bros., Indianola, Neb., at
Central City, Neb.
Jan. 25, J. H. Wintermute and Fred Rood,
Bloomington, Iowa.
Jan. 25, Henry Dorr, Remsen, Iowa.
Jan. 26, J. A. Stevenson, Mt. Airy, Iowa.
Jan. 27, Jno. B. Lawson, Clarinda, Iowa.
Jan. 28, Wigstone Bros., Stanton, Iowa.
Jan. 29, Wm. Ray & Son, Defiance, Iowa.
Jan. 29, Davis & Wray, Defiance, Iowa.
Feb. 1, E. Gritters, Hull, Iowa.
Feb. 2, W. J. Crow, Webb, Iowa.
Feb. 3, Farver Bros., Ohevedan, Iowa.
Feb. 3, John B. Lawson, Clarinda, Iowa.
Feb. 3, C. L. Thurner, Postoria, Iowa.
Feb. 3, John H. Fitch, Lake City, Iowa.
Feb. 4, D. C. Longergan, Florence, Neb.
Feb. 8, James Cockeron, Whiting, Iowa.
Feb. 8, F. G. Paul, Marshalltown, Iowa.
Feb. 9, G. W. Seffrit, Lucas, Iowa.
Feb. 9, C. W. Phillips, New Sharon, Iowa.
Feb. 9, Thos. F. Walker, Alexandria, Neb.,
at Fairbury, Neb.
Feb. 9, C. W. Phillips, New Sharon, Iowa.
Feb. 10, W. H. Cooper, Hedrick, Iowa.
Feb. 10, H. B. Francisco, Hastings, Neb.
Feb. 11, R. W. Hafford, Manning, Iowa.
Feb. 14, J. H. Hitch, Geneva, Neb.
Feb. 15, O. N. Remington, Tekamah, Neb.
Feb. 16, Cavett Bros., Phillips, Neb.
Feb. 16, Wm. Lentz, Ankeny, Iowa.
Feb. 17, E. D. Keasy, Wiota, Iowa.
Feb. 18, C. C. Polly, Whiting, Iowa.
Feb. 24, Ruebel Bros., Marathon, Iowa.
Feb. 24, Mastodon Poland Chinas, W. W.
Wheeler, Harlan, Iowa.
Feb. 25, M. P. Hancher, Rolfe, Iowa.
Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
Feb. 25, J. W. Pfander & Sons, Clarinda, Ia.

BERKSHIRE SWINE.
Feb. 15, W. R. Holt, Falls City, Neb.
Feb. 15, John C. Miller, Harlan, Iowa.
Feb. 21, J. W. Ogle, Ames, Iowa.

CHESTER WHITE SWINE.
Jan. 26, A. A. Hummer, Keswick, Iowa.
Jan. 28, A. A. Rogers, Inwood, Iowa.
Feb. 8, M. J. Desmond, Waterville, Iowa.
Feb. 24, J. H. Stewart, Dickens, Iowa.

DUROC JERSEYS AND POLAND CHINAS.
Feb. 4, R. A. Jeffers & Son, Rock Rapids, Ia.

HAMPSHIRE SWINE.
Jan. 29, A. L. Goodenough, Morrison, Ill.
JACKS AND JENNETS.
Mar. 1 and 2, L. M. Monsees & Sons,
Smithton, Mo.
Mar. 3, Petty Bros., Sedalia, Mo.

PERCHERONS.
Feb. 8-9, H. G. McMillan & Sons, Rock
Rapids, Iowa, sale in Sioux City, Iowa.
Feb. 17, James Loonan and T. F. Glenny,
Waterloo, Iowa.

DRAFT AND HARNESS HORSES.
Feb. 1, 2, 3, 4, Breeders Sale Company,
Bloomington, Ill., C. W. Hurt, Mgr., Arrow-
smith, Ill.

SHIRE HORSES.
Jan. 24, Alfred Bailey, Anita, Iowa.
SHORT-HORN CATTLE.
Feb. 9-10, C. R. Steele, Ireton, Iowa.
Feb. 17, G. H. Burge, Mt. Vernon, Iowa.
Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
Mar. 15, W. C. McGavock, Springfield, Ill.,
at South Omaha, Neb.
April 4, Geo. Allen, Lexington, Neb., at
South Omaha, Neb.
Apr. 28, Henry H. Kuper, Humboldt, Neb.
June 1, H. L. Summers, Malvern, Iowa,
sale at Wayne, Neb.
June 16, N. A. Lind, Rolfe, Iowa.

MOLSTEIN-FRIESIAN CATTLE.
Feb. 8-9, Henry C. Glissman, Omaha, Neb.,
sale at So. Omaha, Neb.

Dates Claimed for Live Stock Sales.

ABERDEEN ANGUS CATTLE.
Mar. 10, M. H. Donohoe, Holbrook, Iowa.
Mar. 11, Wm. Cash, Williamsburg, Iowa.
Mar. 16, Breeders' sale, M. A. Martin,
Mgr., Wall Lake, Iowa.
Mar. 17, W. C. McGavock, Springfield, Ill.,
at South Omaha, Neb.
Apr. 12, W. W. Andrews and J. B. Robinson
& Co., Maryville, Mo.
May 31, H. J. Hess, Waterloo, Iowa.
June 1-2, Combination sale, M. A. Judy,
Mgr., South Omaha, Neb.
June 7, James Williams, Marcus, Iowa.
June 8, Stanley Pierce and John Evans,
Creston, Ill.
June 9, J. W. Wheatley, Kempton, Ind.
Oct. 4, Silas Igo, Palmyra, Iowa.
Oct. 5, White Bros., Perry, Iowa.
Oct. 20, C. M. Russell, Carroll, Iowa.

HEREFORD CATTLE.
Jan. 26, A. E. Cook, Odebolt, Iowa.
Jan. 31, D. S. O'Leary, Iowa City, Iowa,
sale at West Liberty, Iowa.
Feb. 10, Dispersion sale, Table-backed Here-
fords, W. W. Wheeler, Harlan, Iowa.
Mar. 1, 2, 3, C. A. Stannard, Emporia, Kan.
Mar. 9-10, combination sale at South Oma-
ha, Neb., W. N. Rogers, Mgr., McCook, Neb.
Mar. 16, W. C. McGavock, Springfield, Ill.,
at South Omaha, Neb.
April 16, James E. Logan, Kansas City, Mo.

SHIRES AND FRENCH DRAFTS.
Jan. 24, Union Wrecking Co., Des Moines,
Iowa, at South Omaha, Neb.

FIELD MEN.
M. T. White, western Iowa and Nebraska
(north of the Platte river). Address 4015
Izard St., Omaha, Neb.
Carlos C. Palmer, Wisconsin, Illinois,
Indiana, Ohio, Michigan and Kentucky.
Address 211 S. Jefferson St., Peoria, Ill.
Dante M. Pierce, eastern half of Iowa and
Minnesota. Address Homestead Co., Des
Moines, Iowa.
A. T. Cole, Missouri, and north half of
Kansas. Address 3900 Holmes St., Kansas
City, Mo.
Fred S. Larkin, Nebraska (south of Platte
river) and Kansas north of central branch
Missouri Pacific R. R. Address 2525 Erskine
St., Omaha, Neb.
A. W. Hopkins, Wisconsin. Address Fair-
child Block, Madison, Wis.
E. T. Parker, northwestern Iowa, South
Dakota and southwestern Minnesota. Address
1607 Nebraska St., Sioux City, Iowa.
C. C. Carlin, special assignments in cen-
tral, southern and northern Iowa. Address
715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.
A few excellent young Scotch bulls are
advertised for sale by Mr. S. A. Bixler,
Corning, Iowa.
Mr. C. A. Stannard, of Emporia, Kan.,
names the dates of March 1st, 2d and 3d
on which to hold a public sale of Hereford
cattle.
Some large-type, big-boned Poland China
bred sows and gilts are advertised for sale
by Mr. A. J. Podendorf, Logan, Iowa, on
page 57.
Messrs. John H. Tryon & Son, Lyons,
Neb., has fourteen good Duroc Jersey spring
boars for sale, and the first man that gets
there with his \$25 gets the pick of the
bunch.
Some excellent Poland China bred sows
are offered by the well-known firm of Messrs.
Williams Bros., Villisca, Iowa, at private
sale. Read their advertisement on page 57
and write them at once.
Mr. H. Pritchard, Wisner, Neb., offers
seventy-five head of Poland China sows for
sale at private treaty. Many of these are
either sired by or bred to his 1,000-pound
boar, Miller's Tecumseh. See advertisement
on page 57.
Mr. A. B. Horfelman, of Platte Center,
Neb., is offering his Aberdeen Angus herd
bull for sale at a bargain price, in his ad-
vertisement appearing on page 47 of this
issue. This animal is three years old and
will be guaranteed a sure breeder.
We desire to call the attention of Home-
stead readers to the advertisement of Mr.
Frank Warway, of Mt. Pleasant, Iowa, which
appears on page 47 of this issue. Mr. War-
way has some good Duroc Jersey gilts for
sale, due to farrow in March and April.
They are of good bone and good color.
Mr. Fred Ruebush, of Sciota, Ill., whose
advertisement appears on page 57, writes:
"I have some choice O. I. C. spring and
summer boars yet for sale. Also can mate
several young herds of August and Septem-
ber fall pigs, boar no akin to gilts. Would
be pleased to quote prices to parties want-
ing a boar or some young stock."
Mr. S. J. Butts, of Mason City, Iowa, is
offering Duroc Jersey gilts and bred sows
for sale in his advertisement on page 47.
In furnishing copy for his advertisement,
Mr. Butts advises us that he is sold out
of boars and that the demand for same cre-
ated by the advertisement in The Home-
stead he has not been able to supply fully.
Mr. Joseph Cruise, of Mt. Etna, Iowa, has
an advertisement on page 38 of this issue
in which he announces that he is desirous
of securing the services of an aged couple
to keep house and assist him. He writes:
"The reason that I want an aged couple
or partner is that I cannot take care of my
stock properly on account of being a single
man, and cannot push the Duroc Jersey hog
business as I would like to do."
Under date of January 8th, Mr. J. G.
Truman, manager of the Truman Pioneer
Stud Farm, at Bushnell, Ill., writes: "I am
in receipt of a cablegram from my brother,
Mr. H. H. Truman, advising me that he
has been in France and Belgium the past
week buying the very best Percheron and
Belgians he could find, which will be shipped
from London next week, together with a
fine selection of Shire stallions that Mr. J.
H. Truman has ready to ship for us. This
shipment is due to arrive here the last
week in this month. It includes a splendid
lot of horses from two to six years old that
are all up to the Truman standard." The
advertisement of this firm will be found on
page 63 and a copy of their thirty-second
annual catalog will be mailed to any of our

readers who apply for it to the address
there given.

Mr. Orlando Jacobs, breeder of Berkshire
swine, Mediapolis, Iowa, writes: "I still
have a number of good bred gilts weighing
from 170 to 220 pounds that will farrow
in March and April. I offer these at very
reasonable prices. I have had good results
from The Homestead and will be with you
another year." See Mr. Jacobs' advertise-
ment on page 56.
Mr. John Schmieder, of Reussen, Iowa,
breeder of Poland China hogs, writes under
recent date as follows: "I have for sale
some good gilts sired by Large Dude and
King Corrector. They have been bred to
Schmieder's Big Expansion, King Corrector
and Large Dude. Schmieder's Big Expans-
ion is one of the biggest good hogs in the
West. I will sell these gilts at good prices
if taken soon."
Mr. C. E. Longnecker, of Maxwell, Iowa,
a well-known breeder of Duroc Jersey hogs,
advises us that he has sold out his boars
and is now ready to supply a nice lot of
gilts. These are bred to Royal Advance
81963, Royal King and Model Duke, the
latter a son of Golden Model 2d, the great
show boar. See the advertisement on page
58 and write to Mr. C. E. Longnecker,
Maxwell, Iowa.
The man who is still hunting for a Duroc
boar that is fashionably bred and is fit to
head any herd should write Mr. Frank El-
der, Green, Kan. Mr. Elder had a good
trade on those King of Colonels II. and G.
C.'s Colonel boars, selling upwards of forty
heads, but has out of the sixty head of boars
raised, a few good ones left that he is pric-
ing worth the money. See page 59 for Mr.
Elder's advertisement and remember he has
the goods.
On page 47 appears an advertisement in
which the owner announces that he has for
sale an excellent Percheron stallion weigh-
ing 2,200 pounds. He is recorded, of good
lines of breeding and all right in every re-
spect. The owner finds it is advisable to
make a change of horses in his community
and for that reason will sell this one at
one-half what he is worth. For good de-
scription write to Box 646, Nevada, Iowa.
Mr. J. L. Slick, of Lanark, Ill., has a fine
lot of Poland China hogs that he is offering
for sale at prices that should move them.
They are well bred and trace to such boars
as Chief Perfection, Meddler, Challenger and
others. These boars weigh from 175 to 225
pounds and are strong-boned, good-backed
boars with plenty of quality. If you need
a boar write at once for prices and breed-
ing. See advertisement on page 57. Please
mention The Homestead when writing.
Messrs. Wood & Wescott, of Sheffield, Ill.,
make a change in their advertisement on
page 56 that should receive the attention of
those who expect to buy Hampshire hogs.
They have disposed of their surplus boars
of that breed and are now offering ten good
spring gilts that show good bone and extra
length and are bred for March and April
farrow. They advise us that they will be
sold for reasonable prices. Further infor-
mation may be had by writing Messrs. Wood
& Wescott, Sheffield, Ill.
Forty growly spring gilts, daughters of
Lincoln Wonder, Cherry Boy and Kant's
Top, go to make up the good Duroc offer-
ing of Messrs. Geo. Briggs & Sons, to be
sold at the home farm, near Clay Center,
Neb., on February 24th. They have been
grown in the same useful manner as the
boars that commanded such a ready price
last fall and are, taken throughout, without
question one of the strongest offerings
Messrs. Briggs & Sons have ever put forth.
Full particulars will be given in later issues.
Mr. J. D. McDermott, Wiota, Iowa, offers
high-class Duroc Jersey sows and gilts for
sale at private sale. Among these are some
very excellent daughters of Ohio Chief and
a great many of his granddaughters. He
certainly has some good sows for sale and,
as he has declared off his public sale, he
has therefore decided to sell them privately.
It would be an excellent place to buy the
foundation for a herd, as the breeding is
strictly all right and individually they are
very good. Read his advertisement on page
59 and write him at once.
In sending copy for his advertisement
offering Duroc Jersey bred sows for sale,
Mr. George W. Speirs, of Hedrick, Iowa,
writes that they are a good lot, carrying
the best blood lines and are in good, growly
condition. They have been bred to Ohio
Junior 38521, Silver King, Red Eagle and
Dandy Boy. Ohio Junior is considered as
good a sire as can be found and is pro-
nounced by Mr. Speirs a good breeder. Mr.
Speirs can supply Homestead readers with
sows sired by him and also those bred to
him. Red Eagle is a grandson of Ambition
and traces on dam's side to Ben Davis and
Crimson Wonder. Dandy Boy is by the
same sire and Silver King's sire is Batavia
King 69829, dam Evelyn E. 149026. Mr.
Speirs will price these within the reach of
all. He has three railways to ship over
and asks Homestead readers to make a per-
sonal inspection of the stock. See page 47.
Mr. T. A. Davenport, of Belmont, Iowa,
in a recent letter stating that he was sold
out of sheep and ordering the discontinuance
of his sheep advertisement, says with refer-
ence to the young bulls which he adver-
tises on page 55: "These young bulls are
all of good size for their ages and are in
good rig. They will please anyone wanting
a first-class herd header. As I have bought
back Imp. Alice's Ensign I have decided to
offer the other herd bull for sale." Three
of the bulls which Mr. Davenport offers are
of straight Scotch blood lines and very de-
sirable ones at that. One just turned a
year old is by Imp. Kinellar stamp 159277.
His dam is a Rosemary by the Parsons-bred
Commodore, second dam the Imp. Pro Cou-
sul and third dam the Imp. Spartan Hero.
This is a blood that has been popular for
all time and productive of the very best
results. Another bull, a December year-
ling by the same sire, is also worthy of
particular mention. His dam was Imp. Lady
Belle 7th by the Bruce-hred bull, Lifeline,
second dam by Master of the Ring, and
back of that some good Cruickshank breed-
ing. A herd bull which he mentions in his
letter is Fairy Knight by that sire of show
bulls, March Knight, of the Clarke herd,
dam a daughter of Bapton Ensign and sec-
ond dam the imported cow, Fairplay 4th by
Chief of the Clan, from the Marr herd.

There are other bulls in the lot to be sold
that are worthy of careful looking after.
They will be priced reasonably, as Mr.
Davenport is anxious to get them out of
the way.

A few good young Duroc Jersey gilts are
offered for sale by Messrs. Deyoe Bros., of
Mason City, Iowa, as per advertisement on
page 47. These are very growly pigs, show-
ing excellent qualities with deep, full side,
good hams and extra nice color. Some of
them are by a son of Advance and others
by a Liberty Chief hog. The dams are
strongly bred in Ohio Chief and Kant 1st
Beat strains. They have been bred for
March and April litters to a grandson of
King of Cols. Quite reasonable prices will
be quoted on them.
A letter from Messrs. Taylor & Jones,
breeders and importers of draft horses, at
Williamsville, Ill., under date of January
4th, says: "We have just received a cable-
gram to the effect that our new importa-
tion is being shipped and in view of the
fact that we are crowded for room we are
willing to make special prices to all those
who come soon. We invite inspection and
assure them of good horses, low prices,
honest treatment, and a gilt-edged guaran-
tee." The firm handle Percherons, Shires
and Belgians and Coachers, all of which are
described in the beautifully illustrated cat-
alog that will be mailed to any address. To
get a copy of it write Messrs. Taylor &
Jones, Williamsville, Ill. See page 63.
Farmers who need sheep, and all farmers
do, will be interested in the sale adver-
tisement of Mr. A. T. Guthrie, which ap-
pears on page 50. Mr. Guthrie is mak-
ing a public sale on the 20th of January, at
Newton, Iowa, in which he includes sev-
eral head of registered Shropshire ewes, five
of these is an imported ewe and fully half
of the offering are by an imported ram.
The remainder are bred to the same ram,
Clover Hill's 396 (08808 R). A representa-
tive of The Homestead inspected these
sheep and recommends them as a very de-
sirable lot of animals which cannot fail to
prove profitable. It is not yet too late to
procure a catalog of this sale, for which
address Mr. A. T. Guthrie, Newton, Iowa.
Mrs. Mary Culver, of King City, Mo.,
breeder of Single Comb White Leghorns,
runs an advertisement which strikes the key-
note of the poultry business. "There is
money in eggs. Get the laying kind" is the
way her advertisement reads. She has one
flock of hens which averaged fifteen dozen
each for the season of 1909. In a letter
dated January 3d, she writes us that she
has seventy-five cockerels still for sale. She
is pleased with the good egg record she has
made and also has just as much cause to be
proud of her winnings on birds at a recent
show where there were over 500 birds. Her
chickens won five first prizes, five second
prizes, three third prizes, three fourth prizes
and six special premiums. All these prizes
were won by showing only fifteen birds, each
of which scored above 90. She also adds
that she has never been defeated in the
show room. See advertisement on page 52.
Mr. J. T. Scarff, of Salem, Iowa, breeds
Chester White hogs as advertised on page
58 of this paper. In a late letter making
remittance on advertising account, he says:
"I still have some extra good gilts weigh-
ing 200 pounds that I will sell at \$25 each,
and some heavier ones that will weigh about
250 pounds that will go at \$30 each. These
gilts are fine; they have been bred to Nor-
way Chief and Ohio Chief, two as good
boars as are known to the breed. I have
not had a dissatisfied customer this fall."
Mr. Scarff recently shipped a gilt to Mr.
Harm Monk, of Ashkum, Ill., and that gen-
tleman wrote, on receiving the hog, saying:
"I received my sow all O. K. and I am
well satisfied. I shall be glad to recommend
you to those who want to buy." Another
customer, Mr. John Bartsche, of Manchester,
Iowa, wrote as follows: "I have received
my sow and am well pleased with her."
These letters indicate the character of stock
Mr. Scarff is shipping to his customers.
Mr. J. C. Porter, of Ogden, Iowa, breeds
Duroc Jersey hogs, and now offers for sale
some choice gilts of March and April far-
row. His advertisement appears on page 47.
These gilts are from matured dams and have
been raised in a sensible way, with plenty
of pasture, and largely on feed of a home
and muscle-making character. As a result
they are well grown, though perhaps not as
fat as some breeders would have them. The
boars from the same litters were readily sold
early in the season at good prices, which is
an indication of the way the local trade
looks upon them. They are of popular lines
of breeding, being daughters of Advance
Orion and Shadland King. The former is
by Proud Advance and the latter by Tient-
sin. There are also a number by Porter's
King of Colonels. This is an excellent hog
by Prince of Colonels. His dam was Ripley
Queen by High Chief, he by Ohio Chief.
This is a hog with a strong back and an
extraordinarily smooth and deep side, as
well as being big boned and otherwise meri-
torious. Most of these gilts have been bred
for March and April farrow to a son of W.
L. A.'s Choice Goods. The dam of this pig
was by Harding's Proud Advance. Reason-
able prices will be quoted on these gilts.
Mr. Porter advises us that as he is crowded
for room, he will offer Porter's King of
Colonels for sale. In the matter of both
pedigree and individual quality, this hog is
good enough to attract the attention of some
breeder who will appreciate his merits as
a breeder. Two boars of May farrow weigh-
ing around 180 pounds will also be sold.
They are, of course, a little young, but for
anyone who will grow them out properly
they will certainly prove to be good prop-
erty. They are both by Porter's King of
Colonels and their dam is a granddaughter
of Proud Advance on one side and Liberty
Chief on the other. For additional descrip-
tions on any of this stock write to Mr. J.
C. Porter, Ogden, Iowa.

**WOODRUFF'S SCOTCH AND SCOTCH-
TOPPED SHORT-HORNS.**
Mr. C. H. Woodruff, of Alma, Neb., is
offering some very fine Short-horn bulls and
females of the most excellent breeding. Low-
down, blocky, good-boned, straight-lined, easy-
feeding cattle, representing some of the most
famous sires of the present day, are offered
and may be had at very moderate prices.
They are of ages to suit farmer, ranchman
or breeder, and should find ready buyers at

prices quoted. Kindly mention The Homestead when writing.

WILL SELL ABERDEEN ANGUS CATTLE.

On April 12th, at Maryville, Mo., Messrs. W. W. Andrews and J. B. Robinson & Co., of that place, will make a sale of Aberdeen Angus cattle. From their good herds each will select a choice draft with the intention of offering to the lovers of the "Doddies" as great a lot as have recently gone through a sale ring. Our readers will do well to bear this date in mind and write these gentlemen to put your name on their mailing list for a catalog.

HERD BULL FOR SALE.

On page 47 will be found the advertisement of Messrs. W. S. Secor & Sons, in which they offer for sale the Aberdeen Angus bull, Black Roger S. 119472. This bull is a two-year-old past, a tried animal, and will be sold at a price which is much less than his actual value. His blood lines are as good as can be found in the best herds of the land. His sire was a son of Cranwood Black Knight, tracing directly to old Black Knight through Heather Lad 2d. The pedigree of the sire also includes the noted Jim Jams, while that of the dam is equally fortunate. The dam was a McHenry-bred cow by a son of Heather Blackbird. There is a lot of good breeding in the pedigrees, but further mention would be unnecessary at this time. He is a typical animal of the breed, very short legged, wide and of symmetrical formation throughout. For further particulars and special price to an early buyer, write to Messrs. W. S. Secor & Sons, Melbourne, Iowa.

BAILEY'S CLYDE HORSE SALE.

We wish to call the attention of Homestead readers to the advertisement on page 60 of Mr. Alfred Bailey, of Anita, Iowa, announcing that on Monday, January 24th, he will make a sale which will include five splendid imported Clydesdale stallions and four recorded Clydesdale mares. We know it is not unusual for recorded horses to go into a public sale, but we believe there is unusual character in this consignment and we base our opinion on the fact that Mr. Bailey is a Scotchman with all the Scotch ideas as to the good points it takes to make up a really high-class Clydesdale horse. He knows a horse and has been careful in all his breeding operations to retain only those of straight Scotch blood lines. There is no contamination and the individuality of the animals to be sold will stand out prominently on sale day. The mares have been used on the work of the farm and consequently may not be in as high flesh as buyers would best appreciate. However, they are money makers, have been and will be. The sale will also include a few Short-horn cattle. Do not forget the date.

NORMAL BERKSHIRES.

In the columns of The Homestead will be found the advertisement of Normal Berkshires, bred by Mr. F. W. Morgan, of Beloit, Wis. A few words of explanation will undoubtedly be of interest to many of our readers. Mr. Morgan and his assistants have taken very strong positions against the use for breeding purposes of either overgrown, overfat or underfed stock. The Normal Berkshire, then, is a hog which is well adapted to breeding purposes, being naturally grown and naturally fed. The Morgan Farm management has noted and appreciated a decided change in the attitude in the great majority of breeders upon this question. The normally healthy animal is becoming the standard for the breed. The breeding operations upon the Morgan Farm have been described as follows: "We began with a variety of sires of different blood lines and a large variety of sows, and we have simply, for the most part, let nature take its course; that is to say, we have let the strongest and most desirable type come to the top and stay there and have as surely let the undesirable type disappear from lack of fitness. The result has been that only a few sires have left any permanent impress upon our herd, and at the top of this few stands Lord Bacon, that has proved himself the greatest producing boar we have ever had on Morgan Farm and we can say without prejudice one of the greatest producing boars in the world today. We now have two of his great sons, Grand Master 3d and Pathfinder, and one of his grandsons, Grand Master 4th, in service, and the uniform character of the litters sired by these boars has been remarked by every breeder who has ever visited our herd and looked over the animals of various ages."

GOODENOUGH'S HAMPSHIRE SALE.

On January 29th, Mr. A. L. Goodenough, of Morrison, Ill., will sell fifty head of Hampshire swine that will be a credit to this popular breed. When the sows he is selling are disseminated throughout several states it should prove a big help to Hampshire interests, as this seed is bound to make good and create a stronger demand for more hogs of this breed. Mr. Goodenough is not as pretentious as some breeders, but is always busy trying to breed better hogs than he has heretofore. He is a good caretaker and has the interests of the breed at heart. When he founded this herd he founded it well. He has never bought many Hampshires, but what he has have been the best he could find. The proof of this will come sale day, when he drives these fifty sows through the sale ring. Mr. Goodenough never exhibited his hogs but one year and that was in 1908, when he showed at the Iowa and Illinois State Fairs. At these two shows he won grand champion on Legal Tender, also first in the junior yearling boar class on Bon Bon Beauty. At Springfield he also won grand champion sow on Beauty's Best and reserve champion on Maude. The latter sow sells in the sale, as do several of her daughters and sisters. Daughters and sisters of Beauty's Best also sell in the sale. The sows are sired by Long John, champion Indiana State Fair, 1907; Legal Tender, and others. They are bred to Bon Bon Beauty, Teddy R. B., Majestic Boy and Bobby B. This is a good offering and we urge everyone interested to write for a catalog at once. The sale follows that of Mr. R. L. Bollman, at Coal Valley, Ill., on January 28th, and both sales can be easily made. Trains run both ways Saturday evening, so all can get away after the sale. Parties who cannot attend this sale can send your mail or wire bids to

Mr. Carlos C. Palmer, Homestead representative, in care of Mr. Goodenough, and they will be properly handled. The advertisement appears on page 52.

ADDY & SON'S DUROC DISPERSION.

When Messrs. W. L. Addy & Son, of Parnell, Mo., place their herd of Durocs on sale on January 24th, the breeders of America are to be given an opportunity to secure such breeding stock as has made the Iowa Banner herd one of the popular herds of the country. The blood lines throughout the offering are as popular as could be desired, the individual members of the herd are such that they will add to the quality of the herds to which they go and, above all, the matured herd boars and sows are good producers. The great breeding boar, W. L. A.'s Choice Goods, whose name has become a household word wherever the Duroc is talked of, will go to some herd and make for it an almost instantaneous reputation. The second herd boar, Crimson Chief, is one of the few living sons of old Crimson Wonder and is a great breeding boar that has not been given the opportunity his produce show him to merit. Among the mature sows is Belle of the Iowa Banner herd, a sow Mr. Addy says is unquestionably the best brood sow he ever owned. There are also daughters of Model Chief II., The Chief's Colonel, Crimson Wonder Again, Proud Advance, Dandy Orion, Crimson Chief, Nebraska Belle's Ohio Chief and W. L. A.'s Choice Goods. These are sows that Messrs. Addy & Son held as their reserve sows. They have been tried, were found to be just the kind to mate well with their herd boars and would not be priced were the herd to be held intact. Some twenty head of spring gilts by their two herd boars and four by Chief's Colonel are young sows of great promise. All told, there are twenty daughters of W. L. A.'s Choice Goods in the sale. Ten are fall yearlings and older sows, the balance are spring gilts. About thirty head are bred to Choice Goods, the balance are mostly bred to Crimson Chief or his son. The sale will be held at the farm adjoining Parnell, where visitors can be comfortably entertained. Trains on the Great Western now run so that parties going either north or south can get out the night of the sale. Messrs. Addy & Son extend a cordial invitation to all to be their guests sale

Mention The Homestead when writing for catalog.

BOLLMAN'S HAMPSHIRE SOW SALE.

Mr. R. L. Bollman, the popularly-known Hampshire swine breeder of Coal Valley, Ill., will hold a public sale of seventy-five bred sows in the opera house at Coal Valley on Friday, January 28th. This will be one of the most important events to take place among Hampshire circles this year. Mr. Bollman probably has the largest herd of this breed of hogs in America and as good as any. The herd usually numbers from 300 to 450 head and he has selected seventy-five from this number to sell at public auction, hoping the supporters of the breed will turn out sale day and show their appreciation of his efforts to make the Hampshire hog what it is today. Mr. Bollman keeps only the best of his crop of pigs for breeding purposes and the rest find their way to the butcher. He never ships out anything that he would not want to keep in his own herd. It is good for sore eyes to look at this bunch of sows that sell in his sale. Included is Merry Widow, one of the best sows in the country and an animal that never was defeated in her class. She was first at Springfield, 1908, and first at Chicago, 1909. Bessie A. and Hettie Green are two other prize-winning sows that go in the sale. A number of the sows are by Solid Gold, the champion boar at Springfield, 1907. The herd boars to which these sows are bred are Top Round by Dr. Smith, out of Spring Water Lady by Regulator, Spring Water Lady is also the dam of Merry Widow. Blythedale George by Blythedale Duke is being used, also King David by Gold Nugget and A. T. G. by Bon Bon Beauty. A son of Top Round is also being used. Those who know Mr. Bollman know these boars are good or he would not use them under any consideration. This sale is the day previous to that of Mr. A. L. Goodenough, at Morrison, Ill., and it is a short trip. We hope to see a great crowd of breeders attend these two sales. The stuff is good and it will do you good. Write for catalog at once. Parties who cannot attend the sale can send their bids to Mr. Carlos C. Palmer, The Homestead field man, in care of Mr. Bollman, and they will be treated as honorably as if you were present. Don't fail to be present or be represented.

The catalog is ready. It gives complete details. Bids may be sent to Mr. Fred Larkin, in care of Mr. Current, and they will be handled fairly. Kindly mention The Homestead when writing. See page 50.

FESSENMEYER'S SOW SALE.

On Saturday, January 15th, at Clarinda, Iowa, Mr. H. Fessenmeyer will make his annual Poland China brood sow sale, and it will be one of the good offerings of the season. If you have not received his catalog, make it a point to go to the sale, as Mr. Fessenmeyer is selling a splendid lot of gilts and a number of good matured sows. Remember the date, Saturday, January 15th, at Clarinda, Iowa.

WHITEMAN'S POLAND CHINAS.

Any of our readers in need of a good, well-bred Poland China sow will do well to visit the herd of Mr. Oliver Whiteman, at Biggsville, Ill., as per announcement on page 47. He is offering privately sixty head of bred sows. The blood lines of these sows cannot be surpassed by any herd in the country. As an illustration, we may call your attention to the fact that five of these sows are sired by Impudence, four by Keep Safe, fifteen by Importance, fifteen by Kemp's Leader and others equally well bred. These sows are bred for March and April farrow to Importance, Reflector, King Wonder, Reflector II. and Mastodon III. Importance was first-prize boar at Des Moines, 1907, and the sire of Reflector, a prize winner at the 1908 Iowa State Fair. Kemp's Leader was a prize winner at the Illinois State Fair, 1908. King Wonder and Mastodon III. are of the big-boned type, so the admirers of this type can get what they want in this herd. Mr. Whiteman has been breeding Polands for many years and has showed twenty-two boars during the time, and won ribbons on every one of them. It is something out of the ordinary to have shown that number and never drive out of the ring without a ribbon. He also has fifteen spring boars that he will price right. Write for prices and any other information you may desire to Mr. Oliver Whiteman, Biggsville, Ill. Please mention The Homestead when writing.

GRITTERS' BIG POLAND CHINAS.

This auction sale will be held on Mr. E. Gritters' farm, four miles north of Hull, Iowa, Tuesday, February 1st. There will be fifty head of the big type of Poland Chinas to go through the sale ring. A few are aged tried sows; the balance will be gilts weighing right around 350 to 400 pounds on sale day, and they are the set of Longfellow Junior, Choice Chief Price, Chief Leader, King by Beauty's Jumbo (the 1,050-pound hog that belongs to Mr. George Castle), Long Price and A Wonder, and are bred to Longfellow Junior, Gritters' Longfellow, North Star Chief, Long Prospect and Ideal by King Dodo. Here is where you will find the big type of Poland Chinas that are sired and bred to the largest families of Poland China hogs known to the breed, and if you want to buy the largest type of Poland China hogs that is bred in the world, go to Mr. Gritters' sale, where you will have that opportunity, for they have not only the size, but they have quality, having good feet and legs, good head and ears, good backs, plenty of length and stretch, and ham clear to the hock. These hogs will not be in overly fat condition, but just in good breeding shape, and just right to take home and with proper care do the buyer lots of good. The sale will be held in a tent and there will be free entertainment at the hotel at Hull, and free conveyance to and from the farm. Catalogs are now ready and may be had by addressing Mr. E. Gritters, Hull, Iowa. Col. J. A. Benson and Henry Moen will be the auctioneers. Bids may be sent to either of the auctioneers or Mr. E. T. Parker, field man for The Homestead, in care of Mr. Gritters, and will be properly cared for. When writing for catalog please mention The Homestead. See page 48.

IMPORTANT BROOKMONT SALE.

The present profitable condition of the live stock industry of the West is due in very great measure to the unselfish work of breed promoters who have devoted their endeavors to the perfection of their breeds and bringing out their strongest and most profitable points. Not the least of importance among the men who have devoted their capital and energies to this purpose is Mr. A. E. Cook, of Odebolt, Iowa, whose herd of Hereford cattle stand not only as the greatest in point of numbers in the West, but also one which ranks right up with the best of them with respect to prominence of strains involved and high individual merit carried by the cattle. Mr. Cook has devoted a greater amount of capital to this work than any half-dozen breeders in the state in which he does business. He has called to his aid trained minds and the most valuable practical helpers to be obtained. Under such circumstances success must necessarily follow and today the Brookmont herd with its notable collection of splendid animals is equal to a state fair show. Lovers of good animals and those who appreciate systematic efforts as applied to general farming will find an opportunity on Wednesday, January 26th, the occasion of a public sale of Herefords from the Brookmont Farms, to make such an investigation as will prove both interesting and instructive. An advertisement on page 51 of this issue sets forth many of the facts with reference to the cattle that are to go under the hammer of the auctioneer on the date named. The sale will be held in a heated, well-lighted and thoroughly comfortable pavilion which is, in itself, a lesson to those who have not yet learned to appreciate the full value of proper housing of animals. It is a matter of regret that a lack of space prevents us from giving complete details as to the splendid consignment of cows that have been cataloged. They are choice animals with the most desirable individuality; they come from strains of the bluest of blue blood and they will bear inspection by the most critical eye. They range in age from one to four years and are a very close approach to the ideal Hereford type. All that have attained a sufficient age have been bred to one or another of the herd bulls, Sullivan, Brigadier March On, Fletcher and Choice Lad. Two of these bulls are sons of the great March On and all of them are bred along lines as good as the herd books provide, but there is so much of importance

NEXT WEEK'S SALE PROGRAM

Monday, January 17	{ Duroc Jerseys, D. Nauman, West Liberty, Iowa. Duroc Jerseys, Waltemeyer Bros., Melbourne, Iowa.
Tuesday, January 18	{ Duroc Jerseys, G. W. Hockett, Manning, Iowa. Duroc Jerseys, R. C. Plattenberger, Mt. Vernon, Iowa. Poland Chinas, J. O. James, Braddyville, Iowa.
Wednesday, January 19	{ Duroc Jerseys, Chas. Beerman, Webster City, Iowa. Poland Chinas, W. W. Wheeler, Harlan, Iowa. Red Polls, A. P. Arp, Frank J. Clouss, S. A. Converse & Son, Sioux City, Iowa. Short-horns, C. L. Prouty, Council Bluffs, Iowa.
Thursday, January 20	{ Duroc Jerseys, Bardwell & Barnard, Louisville, Ky. Duroc Jerseys, J. O. Gates, Sheldon, Iowa. Duroc Jerseys, S. L. Hopper, Neola, Iowa. Poland Chinas, C. L. Prouty, Council Bluffs, Iowa. Poland Chinas and Aberdeen Angus, J. O. Thompson, Elwell, Iowa. Percheron and Shire Mares, Short-horns and Shropshires, A. T. Guthrie, Newton, Iowa. Short-horns, H. R. Ryan, South Omaha, Neb.
Friday, January 21	{ Duroc Jerseys, R. J. Harding and W. A. Rankin, Carson, Iowa.
Saturday, January 22	{ Poland Chinas, Robert A. Schug, Coleridge, Neb.

day, whether you buy or not. See page 56 for their advertisement and if you have not yet received a catalog, send for one and kindly mention this paper when doing so.

THOMPSON BROS.' GREAT POLAND SALE JANUARY 24TH.

Messrs. Thompson Bros., of Indianola, Neb., will make a sale of seventy head of Nebraska big-type Poland Chinas at Central City, Neb., on January 24th. Messrs. Thompson Bros. are the owners of one of Nebraska's strongest herds and the reason they come to Central City is to get where there is a better crowd. In this sale they are putting Proud Giantess, the grand champion sow of Nebraska and Kansas in 1909, bred to Graud Look, he a valued son of King Look, and winner of seventeen firsts and championships—the champion of three states. Famo X. L. was grand champion sow of Nebraska, Missouri and Kansas in 1908, and one of the highest valued sows and most admired ever shown on that circuit, and she is bred to Grand Look. Then there are ten big, smooth fall yearlings, sisters to Mollie K., grand champion sow, Nebraska, Missouri and Kansas in 1907, they being sired by Pan Jr. Then there is Princess, an Expansion-Tecumseh-bred sow, the dam of two gilts in the money at Lincoln, 1909, and the dams of Mollie P. and Mollie T., included in this sale. She is safe to Grand Look. Several good daughters of this same Expansion sire and out of a Tecumseh-bred dam are included, and each is a reliable brood sow. Then there is Collossa, a first-prize gilt under six months at Nebraska and Kansas in 1909 and a brood sow prospect—one strong enough to go in any herd and right up on her feet. The major portion of the offering will be safe to Grand Look, a valuable sire and prize winner, and to Tom Crowder, a son of Zora Vick, one of Nebraska's most famous brood sows, and himself a prize winner. The other boars are mentioned in detail in the announcement on page 52. The Homestead reader who appreciates a truly good Poland will find this an exceptional opportunity.

sent at these sales. The advertisement appears on page 52. When writing kindly mention The Homestead.

CURRENT'S DUROC SOW SALE.

Thirty head of good, useful sows and gilts go to make up the offering of Mr. T. J. Current, of Hildreth, Neb., who sells on Thursday, January 27th. There will be twenty-six gilts, three fall yearlings and one tried sow. Mr. Current enjoys the reputation of owning one of the good herds of the state and being a good developer and showman. He feels that this offering is the strongest that he has ever made and it will no doubt bear him out sale day. The aged sow, Beautiful One, is of Orion-Proud Advance lines of breeding and is the dam of one of his prize-winning gilts of the year. She is bred for a March litter to Invented, a good son of Inventor, a boar that Mr. Current calculated to fit for the 1910 shows. Ella's Choice, the grand good brood and show sow he had out this year, has a litter of gilts sired by the twice winner of first, Jumbo Jr., and a very strong litter, great prospects for brood sows. They are all bred to Rosebud's Echo for March farrow. Royalty 4th, a daughter of Ohio Chief and Royal Lass III., has four good daughters, good, stretchy, broody stuff by Kant Be Beat Jr. 79295. A couple of very fine gilts are sired by Echo's Top and out of Rosebud Lady Improved, a daughter of Medoc and Rosebud Lady. They are three-quarter sisters to Mr. Van Patten's famous show litter of 1908. A half-sister to Jumbo Jr. and Keep On Protection is included, sired by Rosebud's Echo Top out of Rosie B. Then there are daughters of Farmer Burns, Invented, Jumbo Jr. and Rosebud's Echo Top. They are bred to Rosebud's Echo Top, a son of Echo Top and Red Bud III., a Medoc-Rosebud Lady sow, one of the sensational show litters of Mr. Van Patten's in 1908, and a winner of second in 1909, and to Invented (now dead), a son of Inventor and Suburban Blossom, that Mr. Current expects to fit for the 1910 shows.

in these pedigrees that we must refer our readers to the catalog for complete details. Catalogs may be had by writing at once to A. E. Cook, Odebolt, Iowa.

WALKER SELLS POLANDS AT FAIRBURY, NEB., FEBRUARY 9TH.

Mr. Thos. F. Walker, of Alexandria, Neb., will, on February 9th, sell at Fairbury, Neb., forty head of big, useful Poland Chinas of the same high quality as they have formerly made. We gladly recommend their offerings and suggest that all interested get a catalog at once by mentioning The Homestead.

D. H. WARNER'S DUROCS AND SHROPSHIRE.

On February 5, 1910, Mr. D. H. Warner, of Tipppecanoe City, Ohio, will sell eighty-one Duroc Jersey bred sows, fall boars and gilts and fifty-eight Shropshire Down sheep. The hogs consist of fifty-one bred sows and thirty fall boars and gilts. The offering is sired by Red Beat by Kant Be Beat, Pilot Wonder III. (a boar tracing to Pilot Wonder and Orion Chief). Correct Kruger by Kruger's Corrector. The sows are bred to the above boars and Fruit Lawa Colonel by King of Colonels, out of Martha by High Chief by Ohio Chief. The sheep consist of fifty-two ewes and six rams. The ewes are either imported or sired by imported rams and all are bred to imported rams. This will be a good opportunity to get something good at a fair price. Write for catalog, mentioning The Homestead. Parties who cannot be present can send their bids to Mr. Fred Reppert, sale manager, or Col. H. T. Igleheart, auctioneer. See page 49.

HEISEL'S DRAFT STALLIONS.

The Heisel Percheron and Belgian horses advertised on page 62 possess breed characteristics, size and excellence of make-up that cannot very well fail to please buyers. At the present time special attention is being paid to the sale of young stallions, of which he has a number, that are as good as those to be found in any importing barns. Quite a number of buyers have, after going the rounds of numerous importing barns, made their selections from Mr. Heisel, and during the past week he has sold stallions to go to Iowa, Minnesota and Missouri. He still has a number of high quality horses and invites buyers to make a personal visit and inspection. He is located at Fremont, Mahaska county, Iowa, and the barns are right in town, close to both the Iowa Central and C. B. & Q. depots. Those who are looking for imported mares can also be supplied with some extra good ones of the prize-winning type and at prices that will make them bargains. For further particulars write to Mr. E. J. Heisel, Fremont, Iowa.

DE VAUL'S DUROCS AT AUCTION.

Mr. Claude De Vaul, of Inwood, Iowa, will sell on his farm, four miles north of Inwood, Thursday, January 27th, forty head of choice Duroc bred sows and gilts. There will be fifteen aged sows and fall yearlings and twenty-five spring gilts. They are the daughters of Robert J., Ohio Advancer, S. B.'s Crimson Wonder, Bon Bon Second, Iowa Notcher, Golden Jim, Junior Jim Advancer, and they are bred to Robert J. and W. S.'s Choice, he by Bon Bon Second. Mr. Claude De Vaul is putting into this sale some of his very best tried sows; also some very choice fall and spring gilts. They are the large, roomy kind, with extra good feet and legs, with plenty of length and stretch, and most of them are of superior quality. Mr. De Vaul, although being a young breeder, secured some of the very best foundation stock that he could buy, and from this foundation has built up one of the best herds of Duroc Jerseys to be found. He being a good caretaker, uses extra judgment in mating. He has not only plenty of size and bone, but has extra good finish, and anyone attending Mr. De Vaul's Duroc Jersey sale will not be disappointed in finding extra good brood sows to buy. There will be free hotel accommodations at Inwood and free transportation for foreign visitors to and from the farm. Cols. C. E. Luther and Henry Moen will be auctioneers. Sale will be held in a tent. For catalog address Mr. Claude De Vaul, Inwood, Iowa, and mention The Homestead. See page 52 for advertisement.

VEENKER'S BIG-TYPE DUROCS.

On January 26th, Mr. R. C. Veenker, of George, Iowa, will hold his annual brood sow sale of Duroc Jerseys. The sale will occur on his farm, five miles east of George, Iowa, one mile west and six miles south of Little Rock, five miles west and two miles north of Ashton, and there will be free accommodation from all three places for foreign visitors. There will be thirty-eight head offered, consisting of sixteen tried sows and fall gilts and twenty-two spring gilts, and they are the daughters of such noted boars as Sioux Chief by Sioux Brave, Minor Heir by Star Marshall, and Bon Bon 2d and Junior Jim, and are bred to Crimson Dale, he by Malcolm's Dale, once the sweepstakes hog of Minnesota; Rex Wonder Jr. by Rex Wonder, he by Crimson Wonder. Mr. Veenker has one of the good herds of Duroc Jersey hogs in the state of Iowa, both in breeding, size and quality, and in this sale he is putting in some very choice ones. Among them is one aged sow, one yearling sow and three spring gilts out of the dam, Hope, she by Achiever. One of the daughters is Hope 3d, sired by Bon Bon. The spring gilts are by Minor Heir and the yearling by Rex Wonder Jr. Winona is one of the great sows to be sold this year. She is a plum in any man's herd and should command a good price. The three spring gilts are extra good. They are the daughters of Minor Heir. There will be a litter sister to Minor Heir in the sale and she is an outstanding brood sow of the Duroc Jersey breed. Other extra good ones in the sale are three November yearlings and most people would call them the best. They are the daughters of Junior Jim and their dam was Sadie by Tolstoi, and if you want some of the best Durocs to be sold this year this is the place where you will find them. Remember you can attend this sale on January 26th, and on the following day Mr. Claude De Vaul, of Inwood, Iowa, will put up another extra offering of Duroc Jerseys, and on the following day Mr. A. A. Rogers will disperse his entire prize-winning herd of Chester Whites, and no better herd of Chester Whites can be found in the state of Iowa than Mr. Rogers' going to disperse on the 28th of January.

His farm is in the town of Inwood. For catalogs address any one of the three parties and mention The Homestead, as catalogs are now ready. See page 47.

THE BLOOMINGTON HORSE SALE.

On February 1st, 2d, 3d and 4th, the Breeders' Sale Company, of Bloomington, Ill., will hold a combination sale of pure-bred draft horses at the Coliseum. These sales have been annual events and have been very popular. This year they have consigned to this sale some 450 head. There will be 100 head of imported and home-bred stallions and about 150 imported mares and about the same number of American-bred mares. They are of the following breeds: Percheron, Belgian, Shire, French Draft and Clydesdale. Buyers at these sales have received many bargains and no doubt such will be the case in these sales. The horses are consigned by a number of our largest importers and breeders. Any of our readers who contemplate the purchase of a stallion or mare should write for a catalog and arrange to attend the sale. You will have a large number to select from and you get them at your price. Write for catalog or other information to Mr. C. W. Hurt, Mgr., Arrowsmith, Ill. When writing please mention The Homestead. See advertisement on page 62.

THE SOUTHWEST IOWA CIRCUIT.

C. E. VEAK MAKES THE INITIAL SALE.

On January 25th Mr. C. E. Veak opens up the Southwest Iowa Circuit at Essex, Iowa, with one of the best offerings of Duroc Jersey brood sows that will be sold during the winter season. As a breeder, a showman and a feeder we seriously question whether Mr. Charlie Veak has a superior in the state. He is certainly putting up a great offering of brood sows in his forthcoming sale and it is just such an offering as will meet the expectations of the breeders who have been paying attention to this rising giant in the Duroc Jersey business. He will sell forty head of matured sows and gilts in this offering and comprising some of the greatest bred sows you will find anywhere in the state. They have size, bone and quality galore, all of the most popular breeding. His herd boars are excelled by none. He has at the head Model Prince 58197, second-prize aged boar at Des Moines, 1908, a litter brother to the sweepstakes hog the same year. Here is a hog hard to beat and as a breeder has no peer and at four years old he still keeps his yearling form. This hog is too well known to necessitate a lengthy write-up. H. A.'s Choice Goods 51197 is a boar of massive size, weighing 800 pounds in breeding form. This hog won first in class of aged boars at Lincoln in the largest aged boar class ever shown there. Also won sweepstakes bred by exhibitor at Lincoln, 1908. He is a hog of great breeding qualities, having produced some of the best sows in the noted herd of Messrs. Sexsmith & Strong, at Greenfield, Iowa. Mr. Veak is selling several bred to these great boars and also some gilts sired by High Col. 80319 by Prince of Cols., dam High Chief by Ohio Chief; is a Col.-bred boar of exceptionally good quality and if Mr. Veak fits this hog for next year's show some of the boys will know he has been out. Proud Col. by Prince of Cols., dam by Proud Advance, second dam Improver 2d, is one of the hottest-bred boars in the state. Proud Lady's Best, first-prize sow at Des Moines, 1908, bred to High Col., is one of the best aged hogs that we know of anywhere. Large, roomy and of fine color and is one of the best dams Mr. Veak ever owned. Ruberta Bell by I Am A Wonder by Gold Dust Jim is another corking good one, bred to High Col. for early farrow; Madison Lady by Proud Ohio Chief by Ohio Chief, dam Savannah Belle, is a fine individual, bred to Model Prince; Village Queen by Cole's Duroc is an outstanding sow. She is one of the best the writer ever saw; good, two-ended, broad hsk, heavy ham. In fact, she is a model Duroc bred to Model Prince. Model Queen by Model Prince is one of the best gilts in the herd, typical in every way; one Ohio Chief sow, Avoca Chief, by Ohio Chief, dam Dora, and her sire was Orion's Model. Lady Advance 3d out of Angle's Advance, dam Lady Watson, bred to H. A.'s Choice Goods. Bell's Queen by Savannah Belle's Queen and dam Kant Be Beat Queen, produced Critic's Beauty by Glendale Critic, dam Beauty's Best, bred to Proud Col. Write for the Veak catalog and if you cannot attend the sale kindly send a bid to Mr. M. T. White, Homestead representative, and it will be cared for on sale day. See page 49.

MADISON'S GREAT VALLEY KING OFFERING.

One of the good Duroc Jersey brood sow sales that will be held this winter will be that of Mr. S. J. Madison, of Nevinville, Iowa, who will sell on the second day of the Southwest Iowa Sale Circuit. One of the best fall sales that was held in 1909 was that of Mr. Madison, and everybody who attended his sale was surprised with the offering he put up. The boar that stands at the head of his herd is Valley King 87311, one of the greatest sons of the great Valley Chief, and as a boar that will size size and quality he has not a superior in the state. It was conceded that he sired the best and most growthy herd of spring pigs that were sold either east or west last year. A perfect head and ear, large Ohio Chief eye and as large as an egg, clear as a bell. Another word about the breeding of this great boar: His dam is Allen's Maid Again and she by Allen's Maid, the sweepstakes sow at Des Moines, 1907. Iowa Model by Commodore is another great hog for his age. Good, deep, smooth, two-ended hog, very heavy bone and full of quality. This is the hog that topped Messrs. Watson Bros.' brood sow sale, 1908, one of the best in the state. Here are two of the best boars it has been our privilege to see this year, and what breeders for size and quality! They cannot be beat. This sow sired by Crimson Wonder Again is probably one of the best sows in the sale and is a good individual with plenty of size and good in color. She is bred to Valley King for early farrow. She won sixth place at Des Moines, 1908, showing in a very large class. One Valley Chief sow, as fine an individual as you would find in a week's travel, bred to Model Chief; two C. G.'s Choice Goods gilts, fall yearlings, that are simply immense; two W. L. A.'s Choice Goods out of an Ohio

Chief dam that are fine; Fancy Miss and two of her gilts by Madison's Bell; Lady Blue bred as good a Proud Advance sow as stands in the state, large, massive, heavy bone and smooth as silk, bred to Valley King, and if this cross doesn't make a great bunch of pigs we will lay down, for it certainly looks good to us; two gilts by Iowa Model, their dam Shakespeare Queen by Red Chief Again; one Crimson Wonder Again yearling bred to Valley King. Mr. Madison is selling a good bunch of sows and they will look good to the breeders on sale day. He is one of the very best hog men today in the state, and the boys can depend on his putting up a bunch of sows that will be a credit to his herd. Write for his catalog and be sure to attend his sale. Bids sent to our Mr. M. T. White, Homestead representative, in his care, will be attended to on sale day. See advertisement on page 49.

SEXSMITH & STRONG'S GREAT BROOD SOW OFFERING.

On Thursday, January 27th, (the third day of the Southwest Iowa Sale Circuit) Messrs. Sexsmith & Strong, of Greenfield, Iowa, will sell another great offering of Duroc Jersey brood sows and all those who have been in touch with this great herd will realize full well the kind of sows that these boys sell in their sale. Everything considered, the greatest offering of brood sows that was sold last year were disposed of by these boys and they made one of the high averages of the year and this was done on the merits of the sows that they drove through the ring. The boars at the head of the berds of both Mr. Sexsmith and Mr. Strong have been among the strongest in the state. The great Valley Chief did yeoman service in these herds and H. A.'s Choice Goods has always stood along side him and in the same class. These were two great breeding boars and it is difficult for us to remember of two greater breeding boars in one herd in the West. Golden I Am by Golden Rule is a boar that if in high flesh will weigh over one-half ton and he is a very hard hog to fault. He looks like a strong candidate for high honors if fitted out next year. Then it should be remembered that his brothers and sisters win each year for Messrs. Watt & Foust at the Ohio State Fair, one being champion, 1908, and that the breeding is of the very best and they have the size and quality. If you want size and quality combined this fellow has it and the blood of some of the most noted animals living flows through his veins. Get a sow bred to Golden I Am. You may be getting the seed of next year's champion. Other boars in use which we wish to call special attention to are the two Col. boars being used. One is by Prince of Cols., dam by Proud Advance; the other a son of King of Cols. II., dam by Model Chief Again by Model Chief. These boars are high-class Col. boars and should demand attention. A good son of the famous Valley Chief is also in use. Now, as to the offering itself, we feel that space forbids us to do justice to this great bunch of sows. The offering last year we thought were tops and that it would be hard for these gentlemen to ever duplicate it, but we must acknowledge that we were wrong in our judgment, for we consider this the equal, if not the superior offering of the two. Just the kind of an offering the field man could write a solid page about. We haven't space nor time to take them up individually, but will mention some of them. Four fall yearlings by Crimson Wonder Again, dam Ohio Belle by Ohio Chief, dam Savannah Belle 2d, dam Nebraska Belle. These gilts are what the writer would term royally-bred ones. They have, as you must expect, lots of quality. They are an addition to any herd that the owner can point to with pride and say Messrs. Sexsmith & Strong got the worth of their money when they paid \$2,000 for Ohio Belle as a gilt. Others are by Proud Advance, Valley Chief; ten good ones are by H. A.'s Choice Goods and others are by Crimson Wonder Again, Keep On, Protection, Model Chief II., Crimson Wonder III., Valley Chief and others. This is a sale every Duroc breeder should attend; you will not be disappointed in this offering. You cannot go wrong in attending this sale or if you cannot be present you should by all means be represented by a bid. Our Mr. M. T. White will attend the sale in person and he will attend to any and all bids sent him in care of the above breeders. See page 49.

H. S. ALLEN'S GREAT CRIMSON WONDER OFFERING.

On January 28th, at Chariton, Iowa, Mr. H. S. Allen, of Russell, Iowa, will make a public sale of what is, we think, one of the greatest offerings of Duroc Jersey brood sows that has ever gone through a sale ring in the West. It is an attractive lot of sows both from the standpoint of individual merit and from the standpoint of breeding. One of the mainstays of the Allen herd has been his old sweepstakes boar, Crimson Wonder Again, unquestionably one of the greatest breeding boars living today. As a sire of high-class stuff this boar stands preeminent among all of the great boars of the breed. The record of his sons and daughters at the state fairs the past few years will bear us out in all that we say about him. The sensational boar pig at the Iowa and Nebraska State Fairs in 1908 was a son of his and the sensational litter at these two fairs last fall were also sired by him. This litter sold for considerably over \$1,000, and the boar pigs in this litter are now bending the very best herds in the West. It was only yesterday that we saw one in the herd of Mr. Sam Stewart and he is one of the greatest young boars now being used in the West. We might call attention to the other winnings of the get of this great boar, but we will cite our reader to a list of the same which appears in the advertisement of Mr. Allen on page 49 of this week's issue. He is selling forty head in this sale, twenty-five yearling and aged sows and fifteen choice gilts, and when we say these are choice we mean just what we say. Twenty-five head of sows in this offering will be bred to Crimson Wonder Again, and this in itself should be an attraction to the best breeders throughout the land. Then there will be twelve daughters of the old boar in the sale and these will be bred to Model Chief 8th, the second-prize boar at the Iowa State Fair last fall. There will be five daughters of the great boar, Valley Chief, in the sale, and every one a good one and these

are all bred to the old boar. Here are a few of the choice things he is selling: Lady Wonderful, a yearling daughter of Crimson Wonder Again, bred to the prize-winning boar, Model Chief 8th. Her dam is Lady Russell by Model Chief; she was second-prize sow at the Nebraska State Fair and she is one of the great sows in this offering. No breeder will go wrong who buys this sow. Queen Wonderful, sired by the same boar and out of a daughter of the World's Fair boar, Top Notcher Again, is also a good proposition and she is also bred to Model Chief 8th. Among the good aged sows is May Advance, a daughter of old Proud Advance, and she is bred to the old boar. Proud Jewell, a granddaughter of Proud Advance and bred to the old boar, will make a great cross, while Ohio Chief's Beauty by Ohio Chief and Susan Choice Goods by W. L. A.'s Choice Goods, both bred to the old boar, are good propositions to buy. The nick made by the latter cross is the same as that of the sensational litter out of H. A.'s Queen. The Valley Chief sows that Mr. Allen is selling in this sale are very good and they do not need individual mention at our hands. There are two very extra choice gilts in the sale sired by Ohio Chief II. and both of these are bred to the old boar. These are fit to be sent anywhere and no man need hesitate sending a bid on them. There is also a Prince of Cols. sow in the sale bred for an early litter to Crimson Wonder Again. The offering is a strictly first-class one from beginning to end and it is the best lot of sows that has ever come from this great herd. Send for his catalog and be sure to go to the sale. If you cannot be there in person send a bid to Mr. M. T. White, who will represent The Homestead at the sale. Kindly mention The Homestead when sending for catalog.

PLATTENBERGER'S DUROC SALE.

On Tuesday, January 18th, Mr. R. C. Plattenberger, of Mt. Vernon, Iowa, will hold a public sale of Duroc Jersey swine at his breeding farm within the city limits of that city. Fifty head of yearlings, aged sows and spring gilts have been listed for this sale that have size, bone, quality, length and stretch and will be hard to duplicate this season. By the use of good boars Mr. Plattenberger has retained all these qualities sought after by the farmer and breeder in his herd and the offering is one that merits the attention of those who are in the market for useful Duroc Jerseys. The offering is sired by Lafollette 2d by Lafollette; Model Chief 2d, grand champion boar at the Iowa State Fair, 1908—he sired by Model Chief and out of an Advancer dam, a cross which has proven of great benefit to those who have retained it in their herds—A. L.'s Chief and A Top Notcher, the sire of Ambition, a three-times prize winner at Illinois State Fair in three successive years, won first as junior yearling and first in the aged classes. It will readily be seen that the breeding represented in this offering needs no further commendation and when it is considered that the individual merit is in keeping with the blood lines represented, it will be seen that this is a strictly high-class offering in every respect. They are bred to I Am A Golden Model (one of the best spring hogs the writer has seen this year); Colonel's Chief, a richly-bred Colonel boar by Cherry Chief; Reiger's Kant Be Beat, and Lafollette 2d. Mr. Plattenberger will be pleased to send catalogs to all Homestead readers who write for same, as per the advertisement on page 58 of this issue. This sale follows that of Mr. David Nauman, at West Liberty, Iowa, and good railroad connections can be made between these two sales. Kindly mention The Homestead when writing. Bids sent to Mr. Dante M. Pierce will be properly handled.

PURDY'S DUROC JERSEY DISPERSION.

There is no pleasure in announcing the dispersion of such a herd of Duroc Jersey hogs as that of Mr. Geo. H. Purdy, of Mason City, Iowa. Aside, however, from the sentiment in fostering a herd of established merit and recognized importance to the breed in general there is, when the dispersion becomes a settled and unavoidable fact, a duty to the breed which impels us to place the greatness of the individuals to be disposed of before our readers. Mr. Purdy's herd is a great one. It has been founded upon those strains from which all that is good in the Duroc Jersey has sprung. It has been improved, whenever a new herd boar has been needed, by the selection of an animal having blood lines and typical conformation in harmony with the foundation. This course was not easy, because the tendency toward fads in breeding is not easy to resist. The beginning was with a Sensation boar. Then came Model Improver (a cross of the two prominent show-yard strains represented by Improver II. and Higgins' Model). He, at an advanced age was last year champion at the Minnesota State Fair. Better than that, though, is the fact that his daughters, and after them his granddaughters, have been producers of animals that could and did win in any company. After him Advance Boy got in line. He continued to get sows that developed into the same class that made fame for his full brothers, Proud Advance, Advancer and Reed's Banker. Then followed Chief Advancer, probably the best of the lot as a sire of toppy, growthy pigs with true breed character. He was a three-fourths brother to the champion, Model Chief II. And last comes Proud Wonder by the champion, Crimson Wonder Again, and out of a daughter of that other great champion, Proud Advance. The latter has proven himself a worthy successor. His pigs last fall were so good and so growthy that buyers took them early and at an advance of \$10 each over the prices of others. There are fourteen matured sows in the consignment and they are bred either to Proud Wonder or Chief Select, the Col. boar mentioned elsewhere. And look at their blood lines. Two are by the champion, Model Improver, one is by Model Chief, one is by Keep On, one is by Phallas, one each by Minnesota Model 2d, Crimson Wonder Again and Advance Boy. Five are by Chief Advancer. Now can you better that for blood that everybody knows is right? It would pay some bright young farmer to step in and buy the whole bunch. With wise management no man could make a better investment. For these sows have the highest type of breed character and can scarcely be duplicated in numbers and merit. Additional information, and in particular with reference

to the splendid lot of gilts, will be given in a later issue of The Homestead. In the meantime be sure to get a catalog. Apply to Mr. Geo. H. Purdy, Mason City, Iowa. The sale takes place at Mason City, Iowa, February 3d, as per advertisement on page 50.

DUROC JERSEY BROOD SOWS AT PRIVATE SALE.

On page 47 of this week's issue Mr. Mark W. Eddy, Fontanelle, Iowa, starts an advertisement in which he is offering twenty-five choice Duroc Jersey brood sows at private sale. Mr. Eddy has declared off his public sale and he will, therefore, sell his surplus stock privately. Among the sows that he is offering for sale are daughters of H. A.'s Choice Goods, Valley Chief, Perfection Chief, Nidlinger's Improved, some granddaughters of old Kant Be Beat, Valley Lad, Inventor and other well-known sires. These sows are bred to Mr. Eddy's splendid boar, Iowa Model, one of the best sons of old Commodore, and Fancy Orion 86301, a son of Fancy Perfection, out of the sweepstakes sow, Barbara Queen. These sows are bred to farrow in February, March and April and they are good individuals and are bred in the most popular blood lines. Mr. Eddy says that as long as he is not going to make a sale he will make the prices on these sows low enough that anybody can well afford to buy. Write him at once and get him to price you some of these sows and gilts.

BARDWELL & BARNARD'S GREAT DUROC SALE.

One of the most important Duroc Jersey sales of the season will be that of Messrs. Bardwell & Barnard, of McHenry, Ky. The sale will be held in Louisville, Ky., and all who will attend will be entertained free at the Willard Hotel. These gentlemen are going to sell one of the best offerings of the season and they are bred to high-class boars that have won championships at state fairs. They are selling five sows, the equal of which will not be sold in any one sale east of the Mississippi river this winter. These sows are Miss Orion by Orion Chief, grand champion sow at the Ohio, Indiana, Kentucky and Tennessee State Fairs; Proud Maid by Proud Advance, fourth at Ohio, second at Indiana, Kentucky and Tennessee State Fairs; Phyllis by Macon Chief, junior champion at the Ohio and second in class at the Indiana, Kentucky and Tennessee State Fairs; Colonel's Variety by King of Colonels, the top sow in the Whitehall Farm August sale, and The Chief's Daughter by The Chief, out of Ohio Chief's Granddaughter II. by King of Colonels. The above sows are all bred to Model Top, grand champion boar at the Kentucky State Fair and a prize winner at the Ohio, Indiana and Iowa State Fairs this year. They are in fine condition and are bred for March litters. Other sows in the sale are sired by Prince of Colonels, Prince Wonder, Model Top, High Notcher, Perfect Colonel, Macon Chief, Chief's Colonel, Muncie Chief, High Chief, Ohio Chief's Banner and others equally as good. The writer, a representative of The Homestead, recently inspected this offering and can say it is one of the best offerings of the year. The sows and gilts are in nice condition and anyone who buys one of them is almost sure of a good litter of pigs. They are bred to their three herd boars, Model Top, King Wonder and Model King of Colonels. Model Top is a litter mate to Golden Model II. and Model Again. He was a prize winner at four state fairs this year and champion at Kentucky. King Wonder is also a winner at four state fairs and grand champion at the Tennessee State Fair. Model King of Colonels was sired by King of Colonels and out of an Ohio Chief sow. This sale should attract a large crowd of breeders, owing to the quality of the animals and the blood lines they contain. All Duroc breeders should have a catalog, which can be had for the asking. For catalog or other information address Messrs. Bardwell & Barnard, McHenry, Ky. Bids sent to Mr. Carlos C. Palmer, Homestead field man, in care of Willard Hotel, Louisville, Ky., will be carefully handled. See advertisement on page 56.

DISPERSION SALE OF SHIRES, FRENCH DRAFTS AND PERCHERONS.

The readers of this paper will be interested in the important dispersion sale of imported and American-bred Shire, French Draft and Percheron stallions and mares at South Omaha, Neb., on January 24th, by the Union Wrecking Company, of Des Moines, Iowa. This is a dispersion sale and offers an opportunity to buyers to secure some of the best stallions and mares that will be sold at public auction this season. Were it not for the fact that this firm are making a change in their business these horses would not be sold at this time. They have been selected with care and have been raised under practical farm conditions and every animal listed will be sold to the highest bidder without reserve. Among the number are several prize winners at the Iowa State Fair and individually several are listed that will fill the wants of the most exacting buyer. In the advertisement on page 51 of this issue will be found an illustration of the imported Shire stallion, Bramhope Fawcett, the sire of several of the good things in the offering and himself a show horse of great quality. He is a very sure breeder and his get, many of which are included in the sale, are ample evidence of his ability to produce the right sort. His daughter, Merchant's Duchess, included in the auction, a two-year-old, was second-prize yearling at the Iowa State Fair in 1908 and was first-prize two-year-old reserve champion and Shire horse special prize at the Iowa State Fair in 1909. She is one of the best Shire mares that will be sold either at private or public auction this season. A good son of Bramhope Fawcett is Merchant's Bramhope, a splendid imported two-year-old stallion that was a winner of second in the open class at the Iowa State Fair and first in specials. He weighs close to a ton and is coming along in nice shape. The Percheron and French Draft stallions and mares are an unusually good lot. The stallion, Dourdan, is the sire of many of the good young things in the offering and his get are bred to Merchant's King, a three-year-old that is producing some splendid colts. The offering is one that merits the attendance of every buyer and farmer interested in draft horses and catalogs giving full information will be sent to those

who write for same, kindly mentioning this paper. In our next issue we will give further particulars regarding this offering and would urge our readers to supply themselves with catalogs at this time. Remember that all of the animals listed have been reared under practical farm conditions, the mares having done the farm work, and they are all in foal. Be sure to be present at South Omaha, Neb., on Monday, January 24th, at which time this sale will be held.

BURGE'S SHORT-HORNS.

Mr. George H. Burge, of Mt. Vernon, Iowa, has selected the best lot of bulls for his forthcoming sale to be held at Mt. Vernon, Iowa, on February 17th, that he has ever included in a public sale. This means much, for Mr. Burge has had many successful sales and the get of his noted breeding bulls, Money Musk and Hopeful Knight, have found ready sales at the hands of discriminating buyers. The bulls that have been cataloged for this sale are superior in every way and the breeder or farmer who is in search of a high-class sire will do well to write Mr. Burge for catalog as per announcement on page 55 of this issue. In our next issue we will give further particulars regarding this splendid lot of bulls.

ALLDRITT'S DUROC DISPERSION.

We wish to direct the attention of the lovers of good Durocs to the dispersion sale of Mr. Frank Alldritt, at Friend, Neb., on January 26, 1910. The sale will be held in town in a pavilion and all are assured of comfortable quarters. In this sale there will be seventy-five head, forty aged sows and yearlings and twenty-three gilts and two herd boars. The blood lines represented are those much sought for and the excellence of the offering is, on the whole, quite up to that which may justly be expected from a man who selected his foundation carefully and who successfully endeavored to gain a higher state of excellence. The boars offered, and to which most of the offering are bred, are Billie Davis, a very fine specimen of the breed that unfortunately was unable to show at Lincoln, sired by Tom Davis and out of Red Bud I., a daughter of Medoc and Rosebud Lady. The other is a showy youngster, Crimson Wonder Jr. by I Am A Crimson Wonder, he the sensational spring boar at Des Moines and Lincoln, 1908, and is out of the dam, Jr. Jim Bob, a Jr. Jim-Orion-bred sow. They are a couple of very strong boars and Billie Davis will have several daughters in the sale which will show his merit as a sire. In the sow line there is Glendale Maid, a three times winner of first and sweepstakes and a wonderful producing sow and three of her daughters. She is sired by Glendale Critic and out of Fancy West V. by West's Banker. Her daughters are sired by Nebraska Chief and Model Chief. Red Bud I. is another good sow, she by Medoc and out of Rosebud Lady, nearly everyone of this mating being a good kind to tie to for money makers. Lady Advance by Billie K. and out of Miss Advance, a litter sister to Proud Advance, is a choice sow and good breeder. Belle's Lady by Adams Express, a full brother to Crimson Wonder, is out of a daughter of Imp II. There are several more good tried sows, as well as a long string of big, growthy, useful yearlings. The gilts are a well-grown lot and are sired by Billie Davis, I Am A Crimson Wonder, the sensational pig at Iowa and Nebraska, 1908, and King's Perfection, he by Van's Perfection. They are a well-grown lot and discriminating buyers will find this a very strong offering. Send for catalog now. Bids sent to Mr.

Frank Larkin, in care of Mr. Alldritt, at Friend, Neb., will be handled properly. See page 50 for advertisement.

OUTSTANDING SCOTCH BULL.

Mr. M. P. Hancher, of Rolfe, Iowa, is offering an outstanding Scotch bull for sale. He is twelve months old, a grandson of Choice Goods, sired by Carter's Choice Goods, and his dam was Imp. Golden Wreath 12th, and he belongs to the Cruikshank Brawith Bud family. He is red in color, low down, blocky and thick, with extra good lines, good over the heart and extra well finished in the twist, and he is bred well enough and is good enough individually to head any herd in the land and can be bought cheap if taken soon. Mr. Hancher is going to hold a Poland China bred sow sale on February 25th. At this time he will sell fifty head. There will be tried sows, fall gilts and spring gilts in the sale. There will be the daughters of Long Meter, Chief Tecumseh 4th, Crow's Model, Big Bone, Our Dude, Columbia Chief 3d, Smooth Wonder 2d, Hadley's Expansion. They will be bred to Chief Price 2d, Columbia Chief 3d and Big Wonder, and if you want big Poland China hogs of good quality and finish, Mr. Hancher is going to sell them this year. His advertisement will appear in The Homestead later on, with full particulars in regard to the breeding and the class of stock he will sell. See page 57.

J. E. WEHR'S DUROC JERSEY SOW SALE.

On Saturday, January 22, 1910, the day following Mr. R. J. Harding's sale, is the sale of Mr. J. E. Wehr. Sale at Portsmouth, Iowa. All the good ones won't be sold in the other fellows' sales, for a Homestead field man saw some real good ones down at Mr. Wehr's place recently and they are bred to good boars, too. Proud Advance Jr. is said by many of the best breeders of the land to be the best son of Proud Advance and he is certainly a good one. Several good sows are in the sale by this great boar and several are bred to him. Mr. Wehr purchased a boar pig this fall that the field man likes tip top. He is by King of Cols. II. by King of Cols. by Prince of Cols. and his dam is by Model Chief Again by Model Chief by Ohio Chief; second dam Dew Drop Maid, one of the richest-bred Protection sows and one of the greatest brood sows of the Buckeye State. This pig looks like a comer and if Mr. Wehr will fit him out he will make a reputation for himself at the big shows next year. Another good pig Mr. Wehr is using is by Guthrie Chief by D. J.'s Ohio Chief by Ohio Chief, dam Chief's Iowa Belle by Ohio Chief; second dam Nebraska Belle. This is a dandy good pig and his breeding is hard to improve upon. Quite a few good sows and gilts will be bred to him. Another boar in use is Kruger's Best by Kruger, dam by Orion Chief. He is a full brother in blood to the great Kruger Lad, their dams being own sisters, while a few will be bred to Kruger Chief by Kruger Lad, dam by Ohio Chief. The lineup of boars is first class and hard to beat. No better blood can be found and individually we will say they are good. Mr. J. E. Wehr has bred Durocs too long to use a common boar. He just keeps right on breeding Durocs no matter who comes in or goes out. He does business at the same old stand and breeders who attend his sales each year know they will always find some good ones in the sale. This year will be no exception, for a field man saw several he would like very much to own. This is the home of Ohio Anna VIII., the great brood sow which is the dam of Crimson Wonder, Glendale Critic, Brighton Wonder and other great

boars. There will be in this sale some four or five sows and gilts out of this grand old sow. The writer places Ohio Anna, Duchess 40th and Lucy Wonder all in the same class. They are bred much the same and, brother breeder, the three grand old sows have produced some of the ancestors of our greatest families today. Now this is a grand opportunity to get a good sow or gilt out of Ohio Anna VIII. They are mostly bred to Col.'s Model. The results can hardly help but be good. Another good sow that should make bidding lively is Chief's La Belle by Ohio Chief, dam Nebraska Belle. She is a good one and is bred to the Col. boar. See page 47.

A FEW GOOD DUROC JERSEY BOARS FOR SALE.

Those of our readers who have not as yet purchased their boar should write to Messrs. John H. Tryon & Son, Lyons, Neb. They have twelve spring boars left, all bred in the best blood of the breed, and they want to close them out. They are sired by Ohio Chief Advanced, Proud Advance Improved, Dreadnaught and other good sires. These boars are all right and will be a good place to buy your boar if you have not bought elsewhere. Write Messrs. Tryon & Son at once and kindly mention The Homestead.

A GOOD PLACE TO BUY MAMMOTH JACKS.

Mr. J. C. Huestep, of Eolia, Mo., has on hand at all times a strictly high-class lot of Mammoth jacks and jennets. He pays particular attention to bone, quality and substance in these jacks. They are gathered at his farm, are acclimated and sold under as good a guarantee as is possible to get. This year Mr. Huestep has by far the greatest lot he has ever owned and our readers will make no mistake in going to see his stock. See page 62 for Mr. Huestep's advertisement and when writing or visiting him kindly mention this paper.

S. METZ & SONS' STALLIONS.

Homewood Stock Farm, at Homewood, Ill., is recognized as one of the leading importing plants in the country. Messrs. S. Metz & Sons, the proprietors, have had a long experience in the draft horse business and know the kind of horses the American farmer demands. They have been importing stallions and mares for a number of years. A report of the International Stock Show will reveal the fact that this firm were among the leading winners at that show, which shows that they handle a high-class lot of horses. They have some 150 head of stallions and mares they are offering the buying public. They consist of Percherons, Belgians and Shires. If any of our readers are in the market for a first-class stallion or mare, with size, bone and quality, don't fail to look over the horses at the Homewood Stock Farm before buying. They can fit you out no matter what you want in the horse line. Their motto is "Prices right, terms to suit, satisfaction guaranteed." You will not be disappointed in their stock when you get there. They have the goods and price them as low as any responsible firm can. Homewood is on the main line of the Big Four and Illinois Central railroads, twenty-three miles south of Chicago. Suburban trains run hourly from the city. Write or visit them and they will treat you right. Their advertisement appears on page 61. Please mention this paper when writing.

LAST CALL FOR J. O. JAMES' PAWNEE LAD SOW SALE.

One of the great Poland China brood sow offerings of the year will be that of Mr. J. O. James, at Braddyville, Iowa, on January 18th. One of the greatest herd boars of recent times is Pawnee Lad, the boar that has done so much to put this herd on the map. There will be thirty-six head of daughters and granddaughters of his in this sale, and this in itself is sufficient to insure breeders that it is an offering of unusual merit. These sows will be bred to Max Dude, a Nebraska State Fair sweepstakes boar; Big Ex., an Expansion-bred boar, and Big Hadley 2d. About eight or ten of the best sows in the sale are bred to old Pawnee Lad and this will be the time to buy a sow bred to this noted boar. In last week's issue we described the various good sows in the sale, and it is useless for us to repeat it this week. We will say, however, that there are a grand lot of fall and matured brood sows in this offering and some very choice gilts. The blood of old Pawnee Lad permeates a large per cent of the sale offering and a better sire has not been used in Iowa in recent times. We urge upon breeders who want something choice to write to the J. O. James catalog and then go to the sale. If you cannot be present in person, kindly send a bid to our Mr. C. C. Carlin, who will represent this paper at the sale, and he will carry out your instructions to the letter. Don't forget to mention this paper when sending for catalog. See page 50.

THOMPSON'S LAST CALL.

On January 20th, Mr. J. O. Thompson will make a combination sale of Aberdeen Angus cattle and Poland China hogs at his farm close to the depot at Elwell, Iowa. The consignment of cattle includes five young bulls, one herd bull and seven breeding cows. All are recorded, of excellent lines of breeding, and profit making cattle on any farm. The hogs, however, are the principal point of interest in this sale. There will be thirty-five head of sows, including spring gilts, fall gilts and matured animals. The blood lines were referred to at some length in our last issue. At the present time we do not care to say more than to repeat the statement that for uniform character, good points throughout, and all the features that go to make strictly ideal Poland Chinas, this consignment stands head and shoulders above most of those to go before the public this year. We know this is strong talk, but we also believe that every breeder who really knows Poland Chinas would agree with the statement. The importance of an offering of this sort cannot well be overestimated. The future of the breed depends upon the use of such strong-backed, good-boned, good-footed, growthy sows as these. They trace largely to Tecumseh strains and in the main through that great old show hog, Chief Tecumseh 3d, the forerunner of all of the big hogs of the present time. Do not fail to read the advertisement on page 54 and write for catalog to Mr. J. O. Thompson, Cambridge, Iowa. It would be well to remember that Elwell, where the sale is held, is a station

A MOST INTENSELY-BRED COLONEL BOAR.

Chief Select, the Duroc Jersey boar whose picture appears herewith, stands at the head of the herd of Mr. Geo. H. Purdy, of Mason City, Iowa, whose closing-out sale, advertised on page 50, takes place February 3d. Particular interest will center in this hog because of the fact that the larger proportion of the offering will have been bred to him. Chief Select is a big hog and a good one, having a magnificently wide and well-arched back, deep and smooth side and, in fact, all the qualities that are essential in a hog that wins at big shows, and that is just what he has done. Last fall he headed his class at the Kentucky State Fair, was second at the Indiana State Fair and fourth at Ohio. At two of the shows he headed the first-prize aged herd. His dam was a member of the herd, and in class herself won second at Ohio and third at Indiana and Kentucky. She was a full sister to the sow that took the sweepstakes ribbon at the Ohio State Fair in 1908, and last year topped the Browning sale. A full brother in blood to Chief Select is in service in the Whitehall herd, and another in that of Mr. Ira Jackson. Chief Select represents the greatest consolidation of Colonel blood known to the West. He was bred by Mr. Sam Morton. His sire was Cherry



Chief, he by High Chief, that justly popular son of Ohio Chief. On this side of the pedigree there is a strong alliance with the Colonel strain. His dam was Colonel's May by King of Colonels. The second dam was May Stewart by S. E.'s Colonel, and the third dam was Variety 12th, a half-sister to Ohio Chief. In one branch the pedigree traces to Colonel M., the first-prize aged boar at the great Chicago World's Fair. At that same show the Variety family of sows were also prominent winners. As a fact, it may be said that the Colonel tribe has furnished more champions than any other family of the breed. Mr. Purdy has a collection of brood sows that are particularly well adapted to make a great cross with this hog. There is nothing experimental about it. The present excellence of the breed is built upon the identical crosses Mr. Purdy has made. Breeders, both those who are in search of show prospects and those who want material with which to work improvements in their herds, will fail in their duty to themselves if they do not attend this sale. There are sows in it whose pedigrees are equally as attractive as that of Chief Select, and that are show sows, too. Better get a catalog. Send request to Mr. Geo. H. Purdy, Mason City, Iowa.

on the main line of the Chicago, Milwaukee & St. Paul Railroad, but a few miles from Cambridge. Trains will be met at both places before and after the sale.

BRED DUROC SOWS AT PRIVATE SALE.

Mr. W. J. Hartung, of Maxwell, Iowa, a well known breeder of Duroc Jerseys, is offering twenty-five head of choice sows for sale privately that should satisfy the most discriminating buyers. Mr. Hartung has not a sufficient number to justify him in holding a public sale and so has decided to offer them privately. They are sired by S. E. Jr. Jim, Advancer 4th by the noted champion, Advancer, and Golden Model 2d, the grand champion winner of 1909 and sire of champions. These gilts are bred for March and April farrow to W. J.'s Colonel, a splendid son of Prince of Colonels, and out of a dam of Ilich Chief, and a son of Golden Model 2d, whose dam was by Ohio Crimson by Ohio Chief. This last-named boar is a litter mate to five sows which Mr. Hartung is offering for sale, sired by Golden Model 2d, and at prices asked it is doubtful if the same value can be duplicated in any herd in the country. Mr. Hartung will be pleased to send description of the sows which he is offering for sale and if you mean business write him. As per the advertisement on page 49 of this issue these sows are priced from \$25 to \$50 and are easily worth the money. Kindly mention The Homestead when writing.

NAUMAN'S DUROC JERSEY SALE.

On Monday, January 17th, Mr. David Nauman, proprietor of the Oak Ridge herd of Duroc Jersey swine, will offer for sale in a heated pavilion forty head of richly-bred Duroc Jersey sows consisting of six yearlings and thirty-four spring gilts. It is an unusual offering wherein there have not been cataloged a number of aged sows, but in this instance Mr. Nauman has decided to offer only yearlings and gilts. Reference was made in these columns last week to the boars which are in service in this herd and it should not be necessary at this time to again call attention to them. However, they are listed in the advertisement on page 59 of this issue and readers of The Homestead will find it to their advantage to write for catalogs and study this breeding carefully. There are five splendid sows in the sale sired by Buddy B. 2d, he by Buddy K. 4th and out of Tip Top Notcher's Baby, by the World's Fair champion, Tip Top Notcher. Buddy B. 2d has proven himself a very valuable sire and his get have plenty of size, quality, length and bone. These five gilts will satisfy the most discriminating buyers and they are all safe in pig for early litters to Peachie Commodore, outstanding under-year boar that was a winner at Des Moines and Springfield this year. This boar was sired by Prairie Top Notcher by Tip Top Notcher. A number of the offering have been bred to this good boar. We wish to call special attention to the litter of three spring gilts sired by Double Wonder, he by Crimson Indicator, and the latter out of Model Lady by Model Chief 2d, dam Nellie Advancer 5th. They were farrowed March 18th and are litter sisters to Wonder Boy, a boar which Mr. Nauman is retaining for future use in his herd that bids fair to be heard from at the shows next season. These three gilts are show-yard productions in every particular and are bred to Prairie Commodore, a two-times state fair winner, and should prove a valuable addition to any herd. The splendid litter by Nebraska Chief, he by the state fair champion, Red Knight, will attract attention at the hands of discriminating buyers. They are bred to Wonder Boy and Peachie Commodore. This is one of the strongest offers of the year and Mr. Nauman will be pleased to see all of his friends and customers present at the sale. Kindly mention The Homestead when writing for a catalog.

LAST CALL FOR THE GRANT HOCKETT SALE.

On January 18th, at his home farm, near Manning, Iowa, Mr. G. W. Hockett will make his annual public sale of Duroc Jersey brood sows and those who know Mr. Hockett will expect some good things in his offering and they are not going to be disappointed when they see what he is selling. Forty head is the number that goes through his sale ring and twelve of these are daughters of his noted state fair boar, I Am Advance. Ten of these are fall sows and the other two are spring gilts. Mr. Hockett is selling two good daughters of old Ohio Chief bred to Golden Model 3d and Model Chief 3d, and these will be attractive to those breeders who attend the sale. The former boar is a son of the sensational winner, Golden Model 2d, and he is one of the best fall boars that the Messrs. Waltemeyer had at Des Moines. Mr. Hockett selected him while at the fair and he has bred him to some of the best sows that he has in the sale. Old Model Chief 3d is almost too well known for extended mention at our hands, but we will say for those who do not know this boar that he is one of the greatest boars that Mr. Grant Hockett has ever owned. His get in the Hockett sale, as well as in many other sales that we know are coming on, are all that could be desired. He breeds a type of sow and boar that is in universal demand by the breeders and he must be reckoned with as one of the great boars today in the state. Many of the I Am Advance gilts are bred to him and also to Golden Model 3d. He is selling some good daughters of Buckeye Chief in this sale. This boar is a son of Ohio Chief and was used successfully in the herd of Messrs. Johnson Bros. & Newkirk. These sows are out of a full sister to I Am Advance, so you may know that their breeding is all right. They are bred to Golden I Am, a boar that is owned jointly by Messrs. Hockett and Harry Smith. He is in the ton class when in good shape and those breeders who are now wanting more size will do well to buy a sow bred to this hog. We reviewed at some length the many good sows that Mr. Hockett is selling in his sale in our last issue of The Homestead and it is useless for us to go over it again. Let it suffice for us to say that he is selling a splendid lot of sows bred to some of the best boars today in the state and he is very desirous for the boys to come out and attend his sale. If he does not show you a good bunch of brood sows it won't be because he has not got them cataloged in this sale. In fact he always has a good offering and he is equal to the occasion again this

time. If you have not received his catalog send for it at once and kindly mention The Homestead when doing so. If you cannot attend the sale in person send your bid to our Mr. M. T. White, who will be present on sale day, and will attend to your wants to your satisfaction. See Mr. Hockett's advertisement on page 59.

THE ARP-CLOUSS-CONVERSE RED POLLED SALE.

The fact that Messrs. A. P. Arp, Eldridge, Iowa; F. J. Clouss, Clare, Iowa, and Messrs. S. A. Converse & Son, of Cresco, Iowa, are offering their herds at public sale in Sioux City, Iowa, on January 19th, will be an incentive for every Red Polled breeder to be present at that time. These three herds have made great strides for popularizing the Red Polled cattle and have demonstrated to the farmers and breeders of America the importance of this breed. There is no question but that the Red Polled cattle are exceeding the demands made upon them by progressive farmers and breeders for both milk and beef, and the consignors to this sale are including many of their prize-winning animals at the leading state fairs and the International. It is doubtful if there has been a sale in recent years where more International and state fair winners have been included in the offering. Nothing has been cataloged but useful, high-class stuff. The Homestead readers are familiar with the winnings of these herds at the leading state fairs and the International shows for several years past. Forty cows and heifers and ten bulls make up the offering. This is an exceptional opportunity to secure a herd bull, as both Messrs. Clouss and Arp are selling hells which won first prize at the International. The offering is an unusually strong one from every standpoint and merits the attention of farmers and buyers throughout the entire country. Write for catalog at once, as per the advertisement on page 52 of this issue and see illustrations on other pages of prize-winning cattle which are consigned to this sale. Kindly mention The Homestead when writing.

GRITTERS' POLAND CHINAS AT AUCTION.

Mr. E. Gritters, of Hull, Iowa, will hold his annual sale of the big type of Poland China bred sows on his farm, five miles north of Hull, February 1st, offering fifty head. There will be a few aged sows in the sale and the balance gilts, sired by Longfellow Junior, Choice Chief Price, Chief Leader, King by Beauty Jumbo, Long Price, A Wonder, and bred to Longfellow Jr., Gritters' Longfellow, North Star Chief, Long Prospect and Ideal by King Dodo. Mr. Gritters has the reputation through the Northwest of having one of the best herds of the large Poland China type. Some years ago he secured his foundation for this grand herd from Messrs. Peter Mouw and John Miller, and keeping nothing but the very best of breeding dams, and by careful selection and mating of herd boars he has not only got size, length and stretch, good bone and good feet, but quality combined. And in this offering the greater part of it is spring gilts and they are going to weigh, by sale day, from 300 to 350 pounds and will not be loaded up with fat, but in the best of breeding condition, and Mr. Gritters invites not only brother breeders but farmers to attend this sale, whether they are buyers or not, and they will have the opportunity of seeing one of the best herds of large Poland China sows that he has ever offered at public auction. You can attend this sale on February 1st, and on February 2d Mr. W. J. Crow will hold his annual sale of Poland China bred sows, on his farm, adjoining Maclay, Iowa, which is on the Rock Island road, but his postoffice address is Webb, Iowa, on the Milwaukee road, and parties wishing to attend that sale can take the Milwaukee on the evening of February 1st or the morning of February 2d, at Hull, Iowa, can go to Hartley, there get the Rock Island, get off at Maclay at the farm. The following day they can attend the C. L. Thurner sale at Fostoria, Iowa. For catalog address Mr. E. Gritters, Hull, Iowa. See page 48.

WALTEMEYER'S DUROC SALE.

On Monday, January 17th, Messrs. Waltemeyer Bros., Melbourne, Iowa, will offer for sale at public auction forty head of as richly-bred Duroc Jersey sows as will be sold at auction this year. Those familiar with this good herd will realize that the statement just made is not an exaggeration of the quality and individual merit of the Waltemeyer herd. These boys have been careful to list only such sows as they themselves would care to purchase were they the buyer instead of the seller. It is needless to call attention to the winnings of this herd at the Iowa, Nebraska and Interstate Fairs of 1909 further than to state that the get of Golden Model 2d and their sire won more ribbons at the three state fairs than the get of any other boar. Those who have made exhibits at these fairs will realize that it is no easy matter to go into competition at fairs of this magnitude and win the majority of the ribbons unless the individuals are fully up to the standard demanded by careful, painstaking judges. There are a number of gilts in the sale by Golden Model 2d and those are bred to Perfection's Colonel, the first-prize senior yearling boar at the Iowa, Nebraska and Interstate Fairs of 1909. Perfection's Colonel was by Colonel Gladness, be in turn by Carl's Colonel (now owned by Mr. J. C. Shade, of Kingsley, Iowa). His dam was by Pucker's Chief, he by Ohio Chief, making one of the strongest Perfection Colonel-bred boars in the country. There are daughters of Tientsin, Red Wonder, Inventor, Golden Model, Tip Top Notcher, Keep On 2d, Lincoln Wonder, Malcolm's Model 2d, H. A.'s Choice Goods, Advancer Number One, Kelley's Pilot Wonder, Savannah Belle Chief, Phallus Model and Proud Advance Junior included in this offering. Homestead readers will find it to their advantage to be present at Melbourne on Monday, January 17th, as the offering merits the attention of every discriminating buyer and farmer. The success of the Messrs. Waltemeyer Bros.' herd in the show rank is another evidence of the excellent quality of the offering. A large percentage of the show herds of 1909 are included in this sale and buyers will find it to their interest to be present at this sale. Bids sent to Mr. M. T. White, representing The Homestead, in care of Messrs. Waltemeyer Bros., will be

properly handled. The announcement appears on page 54 of this issue. Kindly mention The Homestead when writing for catalog.

JOHN B. LAWSON'S GREAT POLAND CHINA OFFERING.

On January 27th, at Clarinda, Iowa, Mr. John B. Lawson will make a public sale of forty head of Poland China brood sows and it is an offering that we can highly recommend to breeders of Poland Chinas. Mr. Lawson has one of the best herds in the state. He is breeding the big type, with quality combined, and he has just what he says he has. His old boar is Prospect, a son of Big Prospect, out of a daughter of old Pawnee Lad, and we have often said that he was one of the good boars in the state of Iowa. He is a most uniform breeder and the highest-priced boar pig sold last fall was one of his sons and he now heads one of the best herds in western Iowa. Quite a large per cent of the offering are sired by him and he will also be bred to many of the sows in the sale. In fact, he is breeding him to all of the sows that are not related to him. As a breeding boar and an individual he ranks right up with the best boars today in the West. There will be twenty-five head of gilts in the sale and the remainder will be yearling and matured sows. Among the many good things that he is selling is Miss James, a daughter of old Pawnee Lad, and she is the dam of the boar, Prospect, that now heads this herd. Here is a brood sow that will make good in any herd. As an individual she will rank well at the top, but as a brood sow she is hard, indeed, to beat. She is bred to his young boar, Big Tecumseh. Miss Prospect, a daughter of Prospect, is a most excellent sow and she is bred to the same boar. There is a cracking good fall sow in the sale by Prospect and out of Lady Jumbo 3d, a daughter of Big Price, a boar that he formerly owned in the herd, and he in turn was one of the greatest breeding sons of old Pawnee Lad. In this sow you get a commingling of the best blood line that have been in existence in southwest Iowa of late years. She is also bred to the Young boar. Another good yearling by Prospect is out of Lady Jumbo 2d and she is bred to the young hog. This sow is a full sister to the Geo. Seffrit boar, which is considered to be one of the best fall boars that went through a sale ring last fall. Then he is selling two very choice gilts that are full sisters to the Hafford boar that was the top boar of last fall's sales. These sows are absolutely right for any herd. Oaklandown Price is one of those Anna Price-bred sows and she goes into the sale bred to the old boar, Prospect. Big Maria by Pawnee Lad is another good sow and she is also bred to Prospect. There are some good gilts in the sale that are sired by Pawnee Prince, one of the good boars that has been used in the herd of Mr. J. O. James, and these are bred to Prospect also. The Lawson offering is one of the very excellent offerings of Poland Chinas that will be sold this winter. No breeder will be disappointed with his offering when he goes to the sale. It is an offering that has both size and quality combined. If you are on the market for sows of that kind, then be sure that you get to this sale. Write for catalog and kindly mention this paper when doing so. If you cannot get there in person, send your bid to Mr. C. C. Carlin, who will represent this paper at the sale and will attend to any and all bids sent in his care. See page 50 for his advertisement.

S. L. HOPPER'S GREAT SOW OFFERING.

On January 20th, Mr. S. L. Hopper, of Neola, Iowa, one of the best-known breeders of Duroc Jerseys in the West, will make a public sale of forty head of the best brood sows he has on his farm, and he has selected these from among the eighty head now on the place. No breeder in the West has been a better buyer of the good things of late years than has Mr. Lee Hopper, and when he comes to pick out the tops of his herd for this sale you can depend upon it that he is going to have something very good to offer the boys on sale day. We have looked the Hopper offering over very carefully and we want to say to breeders that he is selling a better offering than he sold last winter, and that was the top sale of the season. A yearling sow by Tip Top Chief, dam Belle Advance by Advance is a dinger and we predict some good showman will buy her and set an awful fast pace for the other fellows. To see her is to want to buy her. There will be thirty by Tip Top Chief in the sale and we wish to say they are a very select lot and a credit to any boar. There will be some good sows in the sale bred to Tip Top Chief and lucky is the man who gets them. Tip Top Chief is by Ohio Chief II.; his second dam is by Mingo Lad and out of Wonder Duchess 8th, or the same breeding as The Lad For Me, which sired Helen Blazes and many other good ones. The great sow, Love, the dam of King of Cols., B. & C.'s Col., Muncie Chief, Tippy's Col. and others and the World's Fair champion sow, Doty, the dam of Inventor, carries much of this blood. So we consider Tip Top Chief bred in the purple and we know he sires good ones. Guthrie Chief by D. J.'s Ohio Chief by Ohio Chief has won first honors at Des Moines and is siring good stuff. A sow bred to Guthrie Chief will add prestige to any herd. Ohio Chief II. by Ohio Chief, dam the great Minnie Watson by Tom Watson by Top Notcher, is a hog that took the writer's eye and we believe there are few better Ohio Chief boars in the country than Ohio Chief II. Many good sows go in the sale bred to this fellow and lucky is the man who gets one of these; he can't help but breed good. There will be sows in the sale that are bred to other boars, as Mr. Hopper is going out to the sales, buying good sows and reselling them to lend new blood and attractiveness to the buyers who have patronized Mr. Hopper's sales for the past few years. Some of the sows in this sale we wish to call special attention to. Among these is a sow by Prince of Cols. She is bred to Guthrie Chief. This should make an ideal cross. Two Proud Advance sows are included in the sale. One is bred to Guthrie Chief; the other is bred to Ohio Col. by King of Cols., dam by Ohio Chief. Now if you want Col. blood, get in. We know that Proud Advance sows rank well with King of Col. boars. An aged sow by A. L.'s Chief, dam Ruberta G., the champion sow. She is bred to Guthrie Chief. A

grand good Guthrie Chief sow, dam by La-follette, is bred to Ohio Chief II. But say, that Proud Wonder sow is a good one. He is by Model Wonder, dam by Proud Advance. Miss Baxter by McNeil's model, dam Sixteen To One, is a fine sow and she is bred to Tip Top Chief. Another grand sow is Harlan Belle by Crimmon Wonder. She is bred to Guthrie Chief. Write for the Hopper catalog and kindly mention The Homestead. Bids sent to our Mr. M. T. White will be looked after on sale day to the satisfaction of the buyer. See page 53 for advertisement.

STONER & SON'S DUROC SALE.

Messrs. T. W. Stoner & Son, of Henry, Ill., will hold a public sale of Duroc Jersey bred sows on January 24th at Henry. These gentlemen are among the old-time breeders of Illinois and have bred some of the good hogs that have made history for the breed. At the head of their herd is Colonel Stoner by King of Colonels, the boar that has sired more good ones during the past three years than any boar, living or dead. His pigs are very uniform, have lots of quality, plenty of size and are fancy. A number of the sows are bred to Duchess Colonel by Harding's King of Colonels, dam Gold Dust Duchess by Ohio Chief. Some are bred to J. S. C., a son of Kant Be Beat. One of the best sows in the sale is sired by Commodore King. Others are by Advancer Colonel, Chief of All, and ten are by Royal Robin by Cock Robin by Top Notcher. Twenty are sired by Colonel Stoner and eight by J. S. C. The dam of J. S. C. is by Top Notcher, so he has the breeding on both sides of the house. These gentlemen are selling a lot of good, useful sows that will do anyone good. They are the good-boned kind, with easy-feeding qualities. They are the kind in demand by the average American farmer. You will be well taken care of and the next day go to the sale of Messrs. Stansell & Matern, at McNabb, Ill. The catalog can be had for the asking. Arrange to attend this sale. Parties who cannot be present, can send their bids to Mr. Carlos C. Palmer, Homestead representative, in care of Messrs. Stoner & Son. Kindly mention The Homestead when writing. See advertisement on page 57.

HARDING AND RANKIN'S GREAT SALE OF HIGH-CLASS DUROCS.

On January 21st, at Carson, Iowa, that noted breeder, Mr. R. J. Harding, and Mr. W. A. Rankin will make a public sale of fifty head of Duroc Jersey sows and if there is any sale of the year that deserves the attendance of the breeders and farmers it is this sale. Fifty head and nearly every one a top sow is something that cannot well be said of every sale offering, but this is true of this sale. It is by far the greatest offering of sows that these two noted breeders have ever sold in a sale. The fifty head of sows that they are selling in this sale are the pick of over 300 head now in these two herds and if they are not good ones it is not the fault of these two breeders. In looking over this sale offering it was our impression that we never did see so many good sows that would be sold in one sale. There will be from fifteen to twenty daughters of the important Ohio Chief in this sale and they are a sight to behold. We know that we never saw so many good Ohio Chief sows in one bunch and they are bred to Harding's King of Cols. and Crimmon Critic, two of the best boars used in the West today. Harding's King of Cols. was a winner at the fairs this fall and it was generally conceded that he did not get what was coming to him in the shows. He is a better boar today than he was at that time and he is bred to many of the very best sows in the sale. Crimmon Critic was a noted winner at the state fairs and was the best son of old Glendale Critic. He is one of the great Crimmon Wonder boars that is now used today in the West. His sire, Glendale Critic, was a full brother to Crimmon Wonder, and this line of breeding has made many of the western herds famous. The Crimmon Wonders are coming back stronger than ever and many of the best breeders today are looking for this line of breeding. As a breeder Crimmon Critic has made good and some of his sons and daughters are to be seen today in the best herds of the West and they are all that could be desired. Harding's King of Cols. is one of the very promising boars today in the West and breeders are anxious indeed to secure sows bred to him. Some of these Ohio Chief sows bred to him will make great propositions for breeders who are wanting to put something choice into their herds. It is a nick that is going to make a great cross and we would advise the boys to get some of this blood just as soon as they can. Belle's Chief I Am and Keep On Protection are both good breeding boars, and they have been used very liberally on the sows in this sale. There will be a number of fall sows in the sale that are sired by I Am Advance and Crimmon Critic, and they are in keeping with the other good sows that they have selected for this sale. Ruth G. 3d by Tientsin, out of the famous old brood sow, Ruth C., is another good proposition that they are offering for sale, and she goes into the sale bred to Harding's King of Cols. We expect a great cross from this mating. There will be a number of good gilts in the sale by G. S.'s Col. and out of a full sister to the noted sweepstakes sow, Ruberta G. It should be remembered that a Col. boar and an Ohio Chief sow were the champions at Des Moines in 1909, an Ohio Chief sow and a Col. boar were champions at Illinois State Fair in 1908, a Col. boar and Col. sow were champions at Illinois State Fair, 1909, a grandson of Ohio Chief was champion at Iowa State Fair in 1908, a Col. boar was champion at Indiana State Fair in 1909, while a Col. boar was champion at Ohio State Fair in 1909. Mr. Breeder, wherever else you go just make it a point to be at this sale or else be represented there with a bid. If it is a high-class sow that you are after and one that will help make a reputation for your herd then here is a sale that it will be well for you to attend. The breeding is right and the individual is there and you will never go wrong in buying a sow or two of these two breeders. We might add whole volumes to what we have already said, but it would not have any more weight. We will simply say that the offering is there—incomparable in point of breeding and individual makeup, and we will leave the rest to the breeders and

the farmers who attend the sale. Write for their catalog at once and kindly mention The Homestead. Our Mr. M. T. White will attend the sale and will properly care for any bids that may be sent in his care. See page 58.

BEERMAN'S DUROC SALE.

On Wednesday, January 19th, Mr. Charles Beerman, of Webster City, Iowa, will hold a sale of Duroc Jersey swine, at which time he will offer for sale at public auction thirty head of richly-bred Duroc Jerseys. Mr. Beerman has gone deep into his herd and selected some of the best things he owns and is including them in this public sale. They are a good, useful lot and have been bred along popular and profitable lines. Mr. Beerman at no time has been a sensationalist, but has endeavored to produce a type of Duroc that will appeal both to the breeder and the farmer and will result in a profit to them. The breeding is given in full in the catalog which may be had as per advertisement on page 59 of this issue. Particular attention is directed to the fact that the offering is in good breeding shape and has not been overfed for sale purposes, thus insuring permanent good to those who may be buyers. Mr. Beerman will be pleased to send catalogs to all who write for same, mentioning The Homestead. Bids sent to Mr. Dante M. Pierce, Homestead representative, will be properly handled. Plan to be present at this sale if in the market for well-bred Durocs at reasonable prices. Remember the date, Wednesday, January 19th.

MOSSMAN'S POSTPONED SALE.

On Monday, January 24th, Messrs. A. L. Mossman & Son will hold a public sale of forty-five head of Duroc Jerseys at Radcliffe, Iowa. These gentlemen had prepared to make a sale on Wednesday, January 5th, but on account of the terrible blizzard the day and night before many buyers were unable to reach Radcliffe and it was decided at that time to postpone the sale until January 24th. Messrs. Mossman have cataloged one of the strongest, most uniform, best-backed, best-footed lots of Durocs that will be sold at public auction this season. They are bred to Iowa Col. by Prince of Cols., Model Advancer by Model Chief, Gold Prince and Gold Prince 2d by Col.'s Prince, he by Prince of Cols. Individually these boars are as good as can be found anywhere in the country; they are bred along practical lines and Messrs. Mossman will be pleased to have their friends and customers be with them on Monday, January 24th. On account of delayed trains and drifted roads many were prevented from being present on date formerly claimed for this sale and Messrs. Mossman determined to offer the entire lot on Monday, January 24th. See announcement on page 47 of this issue and write them for catalogs, kindly mentioning The Homestead. Bids sent to Mr. Dante M. Pierce, care of Messrs. Mossman, will be properly handled.

WIGSTONE BROS.' BIG-TYPE POLAND CHINA SALE.

On January 28th, at Stanton, Iowa, the Messrs. Wigstone Bros. will sell forty head of their big-type Poland China brood sows, and it is a sale that will command the attention of those who are interested in this class of hogs. This firm have consistently grown the larger strains of Poland Chinas with as much quality as they could get, and at the same time held to the size. They are selling twenty yearlings and brood sows in this sale and twenty of their very choicest spring gilts. These sows and the gilts have plenty of size and they will please those who want the larger strains of Poland Chinas. The blood of Prospect, a boar that they have used with much success in their herd, is largely represented in this sale, as well as the blood of old Giantess, Pawnee Lad, Jumbo and other well-known large sires that have been used in this state. The yearling and the matured sows that they are selling in this sale are among the very best that they have in their herd and they are certainly selling some good sows in this offering. Valley View Giantess is a four-year granddaughter of that noted old brood sow, Giantess, and she has been one of their good brood sows. She is bred to Grand Growth for an early litter. They are selling a big yearling by Long King out of Pfander's Giantess that will make a good brood sow of the larger type, and she is bred to Prospector 2d, a boar that they are now using in their herd. There is a yearling fall sow by Prospector out of Giant Maid that is possibly the largest yearling in the sale, and she is bred to their young boar, Major Nelson, he by Pawnee Nelson, out of Anna Price 2d. This sow will make an extra large sow, is a trifle way in the coat, but she is really one of the best things they are selling. Two good fall yearlings by Grand Growth out of Crescent Maid and Pawnee Lad look good to us and they are bred to Prospector 2d. One of these is a very fancy sow and will be a good sow for the man that is looking for both size and quality. No. 16 is a very choice gilt by Prospector 2d out of Giant Maid, and she is bred to the young boar, Major Nelson. No. 17 is also a splendid gilt by Prospector 2d. Her dam is Lady Longfellow H. by old Longfellow, and she is the making of a very large sow. No. 18 is a good gilt out of Valley View Giantess, the first sow in the catalog. This gilt is quite nice all over and she is bred to Major Nelson. There are six good gilts by Grand Growth in the sale out of Lady H., a daughter of their old herd boar, Prospector, and they are all bred to the young boar. These sows are all bred and many of them for early farrow to Grand Growth, Prospector 2d and Major Nelson, all boars bred in the blood of the big-type fellows. These gentlemen are selling a splendid lot of sows and they always have put up something good when they made a sale. They have one of the very excellent big-type, big-boned Poland China herds today in western and southwestern Iowa, and the man who buys of them can absolutely depend upon what he buys of them. Their offering is one of the very best of the big-type kind that will be sold this winter and no man can possibly go wrong who attends their sale—especially if he wants to buy some large, roomy, big-boned brood sows. Their catalog makes interesting reading and should be in the hands of every lover of Poland China hogs. Send for it today and kindly mention The Homestead when doing so. Any bids

sent to Mr. C. C. Carlin will receive proper attention on sale day and he will select you some good sows that will be thoroughly satisfactory. See page 48.

THE WINTERMUTE-ROOD SALE.

There are probably no two breeders of Poland China hogs in southern Iowa who have attracted so much attention in the matter of big, growthy hogs as have Messrs. J. H. Wintermute, of Blockton, and Fred Rood, of Clearfield. With so much to their credit there will be a general interest in the consignment of brood sows which they will drive into the ring at Mr. Wintermute's farm at Blockton, Iowa, on Tuesday, January 25th. Mr. Rood makes this a closing-out sale, while Mr. Wintermute puts into it his season's surplus of sows. Details as to breeding of these animals was given at considerable length in the last issue of The Homestead. It only remains, therefore, for us to impress upon our readers the fact that the offering from start to finish is one that is well worthy of investigation, not only by Poland China breeders, but by farmers as well. Mr. Rood's offering is said to be a magnificent consignment. No. 1 in the catalog will be a splendid matured sow, Big Darkness by Jumbo, dam a daughter of Sweepstakes. She is a great big, fine sow, good in every way and in fact, one of the best things in the herd. No. 2 is a litter sister, and the pair of them ought to go into some good herd. Both have raised good litters and proven their quality in that respect. Mr. Wintermute's sale of last year was one of the good ones of the season, having made an average of \$43.32. Two of the gilts that are to be sold this year are daughters of the sow that brought the top price in that sale. Another of the good sows will be Giantess L. H. by Longfellow, dam Mr. Rood's old Giantess. She has four spring gilts and one two-year-old in this sale. In the last sale six of her pigs were sold at an average of \$109.40. Mr. Wintermute will also put into this sale fifteen head of Short-horn cattle. All of the stock, however, will be described in the catalog, for which address Mr. J. H. Wintermute, Blockton, Iowa. See advertisement on page 53.

LAST CALL FOR GEO. SEFRIT'S BROOD SOW SALE.

On January 24th, at Lucas, Iowa, Mr. Geo. Seffrit, one of the best breeders of big-type Poland Chinas in that section of the state, will make his annual public sale of forty head of brood sows. The offering is mostly sired by Surprise Chief 2d, Pawnee Lad 2d and Crow's Special, all boars bred in the blood of the larger strains of Poland Chinas. Mr. Seffrit is making a specialty of size with quality combined and the sows that he is selling in this sale should, and evidently will, please those who attend the sale. About half the offering are fall sows and the other half are spring gilts. The spring gilts are all bred to Guy's Prospect, a boar that Mr. Seffrit purchased from Mr. John Lawson last fall, and he was one of the top boars of the fall sales. There is in this sale a granddaughter of old Giantess, two granddaughters of old Nodaway Belle, as well as daughters of Miss Anna Price, Goltzy's Model, Susie M.'s Model, Fain Girl and other great brood sows that Mr. Seffrit has in his herd. The offering is strictly first class and it will be a good place to buy brood sows. Mr. Seffrit has been building up this herd for a number of years and has bought the very best of foundation material. The price has not been a consideration with him when he found what he wanted. His aim has been to breed Poland Chinas with size, bone and quality, and that is the kind he is selling in this sale. Here is going to be a good sale where buyers can get sows at their own price. The corn crop in this section of the state is not what it might have been and we therefore predict that there will be good bargains in the sale. Write for Mr. Seffrit's catalog and then be sure to go to the sale. It will be held in Lucas, the first town west of Chariton on the C., B. & Q. If you cannot be there in person, kindly send your bid to Mr. M. T. White, Homestead representative, in care of Mr. Seffrit, and it will be properly cared for on sale day. See advertisement on page 60.

STEPHENSON'S GILT SALE.

There is always a good deal of satisfaction in directing the attention of buyers to a really choice collection of breeding stock. Such we consider the Poland China gilts that Mr. J. A. Stephenson, of Mt. Airy, Iowa, will drive into the public sale ring on the 26th of January. Mr. Stephenson has been very fortunate in the selection of blood lines. While his aim has been the production of size, he has been equally as careful to retain the essentials of symmetrical finish, strong, well-arched backs, good bone and up-standing feet, together, also, with as much style and finish as is possible with the other requirements. All except four or five of the offering will be March gilts and nearly all of these are by the herd boar, 2d Pawnee Lad, referred to somewhat in detail in our last issue. It is scarcely necessary, either, to make further reference to the details, with perhaps one or two exceptions. One pair of gilts are great granddaughters of Standard Tecumseh on one side and Guy's Best on the other. These are two strains that have been most highly productive along the lines sought for by Mr. Stephenson. They have been so uniformly good for several generations that buyers may well depend upon a continuance of the uniformity. Three are granddaughters of Mr. Wheeler's great A Wonder, that has been one of the strong talking points of Wheeler's Mastodon herd. There is, throughout the entire consignment, necessarily a strong proportion of Tecumseh blood through its most sizable strains. These sows will have been bred, nearly all of them, to Giant Jumbo. This hog is by Jumbo Darkness by Jumbo, he by Standard Tecumseh. His dam was a daughter of R.'s Pawnee Lad by Pawnee Lad, and throughout the pedigree there is a splendid mixture that cannot fail to prove productive of results. There will not be a poor individual in all Mr. Stephenson's offering. It should be remembered that this sale occurs on the day following that of Messrs. Wintermute & Rood, at Blockton, and that parties who wish to do so may easily attend both sales. The sale will be held right in town, in a comfortable place, and every attention will be made to the comfort and convenience of buyers. For catalogs containing particulars in every

detail address Mr. J. A. Stephenson, Mt. Airy, Iowa. See page 53.

LAST CALL FOR SCHUG'S BIG POLANDS.

Mr. Robert Schug, of Coleridge, Neb., will hold his annual brood sow sale of the big Poland China type, on January 22d, at his farm, one mile east of town. There will be forty-five head in the sale, nine tried sows, five fall gilts and thirty-one spring gilts. The fall and spring gilts are the get of Monarch Chief, he by Monarch Junior, and Hadley Surprise, he by Hadley's Model. The nine tried sows are the daughters of Miller's Tecumseh, Jewel Leader, King Sunshine, Long Chief, Dry Creek Chief and Monarch Chief. All the aged and fall sows are bred to Hadley's Surprise. The spring gilts are bred to Chief Nelson, he by Model Nelson, his dam by Ashburn's Perfection, the 1,100-pound boar; Big Dude, he by Royal Dude, his dam by King Dodo; Chief Monarch, he by Monarch Chief, dam by My Price, and a few to Billie Victor, the first-prize pig at the Interstate Fair in 1909. The breeding of Mr. Schug's hogs is right, both for size and quality, and a representative of The Homestead, who visited his herd, can assure everyone that there is no better herd of Poland China hogs of the large and prolific type than Mr. Schug is offering at public auction in this sale. As for prolificacy, he had fifteen sows that farrowed 156 pigs and raised the most of them. Mr. Schug invites not only brother breeders, but farmers to attend his sale, and assures them that his offering will please them. There will be free hotel accommodations at the hotel at Coleridge and free accommodations from Coleridge to the farm, and parties wishing to go home from the sale on the Burlington will be taken to the station free of charge. Col. H. F. Duncan, auctioneer; Mr. E. T. Parker, field man for The Homestead. Bids can be sent to either one, in care of Mr. Schug, and they will receive careful attention. For catalog address Mr. Robert Schug, Coleridge, Neb., and mention The Homestead. See advertisement on page 54.

PROUTY'S SHORT-HORN AND POLAND DISPERSION.

The last announcement of the dispersion sale of Mr. C. L. Prouty, of Council Bluffs, Iowa, on January 19th and 20th, appears in this issue. They are among the oldest herds in the West and have been recognized as breeding a very high-class, profitable lot of stock. There will be some forty lots of cattle sold on January 19th, also a number of calves at foot. About one-third of the offering are of good Scotch families, Orange Blossom, Victoria, Sybil, Victoria and other reliable sorts. An attractive lot of bulls, including the good stock bull, Butterfly Magenta, are presented. He is a two-year-old of good form and pleasing lines, but thin in flesh, got by Imp. Magenta and out of Pearl Butterfly 3d by Prince Charles. He will no doubt sell at a bargain price. The other bulls are younger, of low-down, thick, easy-fleshing character, heavy boned, and among them are a couple of bulls that in the proper hands will develop into strout bulls. They are for the most part by Imp. Magenta. Among the females the critical buyer will find a number of bargains, no doubt, as a great many have calves at foot and are selling in rather thin condition. In point of breeding and individual excellence this sale presents an offering that are of the most profitable sorts and are worthy of the patronage of those seeking high-class breeding stock. The Poland sale will be held on January 20th, the day following, and will be the dispersion of some very worthy animals of the big type. Expansion J., a Nebraska champion, by old Expansion, and a sire of big-boned, quality stuff, has a great many daughters in the sale and all the older sows are bred to him. The younger sows are bred to Owen's Model, a June youngster of very fine form, good bone, excellent body all over and lots of finish. He is of Mischief Maker's Best-Guy's Price 2d breeding, that is very popular in big-type circles. The catalog, which is now ready, is replete with breeding and notes and may be had upon application to Mr. C. L. Prouty, at Council Bluffs, Iowa, mentioned in The Homestead. See advertisement on page 55.

BALMAT'S DUROC JERSEY SALE.

Messrs. Balmat & Son, of Mason City, Iowa, will hold a public sale of Duroc Jersey hogs on February 2d. The advertisement of the sale appears on page 50. It is something more than an ordinary bred sow sale because it contains sows that are not only descendants of show hogs, but they have the show habit themselves. Good habit, too, when they win, and that is what these sows have been doing. Messrs. Balmat early got together some good producers that had right blood lines. They have made intelligent crosses and today they have one of the very best herds in the state of Iowa. Twenty-five select gilts and nearly the same number of matured brood sows have been picked out. One of the latter is the two-year-old sow, Ohio Chief's Girl, by old Ohio Chief and out of a sow by Combination. She is a brood sow with show sow makeup. She goes into the sale bred to Golden Model Jr. for a March litter. She raised a litter last year. One of them is a boar that headed the young herd at Iowa, was first in class at Minnesota and headed the young herd there. Two of her gilts go into the sale. They are going to be just like her and no one could ask more. Another sow that is good enough for an opener is Model's Choice 3d, a two-year-old by Model Wonder (he by Crimson Wonder Again) and out of a Top Notcher Again sow. There is a double champion cross right at the start. This sow has three times been inside the money at Des Moines, as well as first and champion at Minnesota and Wisconsin last year and in the first-prize aged herd. And then again her produce got second on produce of sow at Des Moines last year and three of them were in a winning young herd. She sells safe in pig by Model Improver for a March litter. The last litter were by the same sire. Then there are sows by Model Chief Jr., Jumbo Jack, Model Improver, O. T.'s Model, etc. More will be given about them next week. The catalog will tell a tale that we have not space for. Get it sure. But remember that there will be no offering of the year better than these in heads, ears, backs, feet or legs. The statement is made by a representative of The Homestead who has

seen them. For catalog address Messrs. Balmat & Son, Mason City, Iowa.

LAST CALL FOR HENRY DORR'S LARGE POLANDS.

On Tuesday, January 25th, Mr. Henry Dorr will sell, at his farm, five miles southwest of Marcus, Iowa, one of the greatest offerings of Poland China brood sows and gilts that ever were bred and raised on Mr. Dorr's Evergreen Farm. There are fifty head in the sale—ten fall gilts and forty spring gilts. The fall gilts are the daughters of Dorr's Hadley, he by Big Hadley, and King Dodo, he by Expansion. The spring gilts are sired by Evergreen's Model, he being one of the best sons of Big Hadley, and Royal Dude, he by Max Dude, the Nebraska sweepstakes hog in 1909; Longfellow by Longfellow 2d, and they are bred to Dorr's Expansion 152095, he by old Expansion; Exception 153481, he by Varsity Expansion; Pawnee Lad 2d by old Pawnee Lad; Big Price by Dry Creek Chief, dam Queen, the 800-pound sow. The writer on looking over Mr. Dorr's offering made the remark to Mr. Dorr that he thought that this was one of the best lots of bred sows and gilts that he had seen this year, and Mr. Dorr said that it is the best lot that he has ever prepared for a sale since he has been in the Poland China breeding business, not only being the best lot of individuals, but being the best-hed lot on the lines of big type, having quality and finish, and he made the remark that there would be more of Mr. John Blain's breeding of the big type of Poland Chinas than there would be in any offering that will be made this year, and he invites brother breeders, as well as farmers, to attend this sale, and they will not be disappointed in the offering. Parties coming to the sale should get off at Marcus, Iowa, where there will be free hotel accommodations and free accommodations to and from the farm. Sale will be held in a tent, with J. A. Benson on the block. For catalog address Mr. Henry Dorr, Remsen, Iowa, and mention The Homestead. See advertisement on page 53.

STANSELL & MATERN'S DUROC SALE.

Messrs. Stansell & Matern, of Magnolia and Lostant, Ill., are among the oldest breeders of Durocs in the state and have been very successful in the show ring at the state fairs. You do not have to recall any ancient history to prove the above statement. At the last Illinois State Fair this firm won thirteen ribbons on the get of their principal herd boar, The Professor by Ohio Chief. They consisted of seven firsts, five seconds and one third. The first-prize under six months boar and the second-prize under six months sow were sired by The Professor. The gilt sows in the sale bred to Defender, the first-prize junior yearling boar at the Iowa and Illinois State Fairs and grand champion at the late International Stock Show. She is bred for an early litter and is in fine condition. She should be looked after by anyone wanting a high-class sow bred to a great boar. There will be three yearlings by Prince Wonder, two by Inventor, one by Model Wonder and one by S. & M.'s Proud Advance. There are eight gilts by Chief's Colonel, seven by The Professor, three by Perfect Colonel, three by Inventors, and others by Macon Chief, High Notcher, Model Wonder and Kant Be. The sows are bred to The Professor, Crimson Wonderful by Crimson Wonder Again, Colonel A. by Chief's Colonel and Colonel Casey by Perfect Colonel. These sows and gilts are an extra good lot and in nice condition. Any man that buys a sow bred to The Professor need not worry but that he will raise a good litter of pigs. They are bred along the most popular present-day blood lines and there is no reason why this should not be one of the best sales of the season. The sale will be held in a heated building, one block from the depot at McNabb, Ill. We hope breeders will appreciate the efforts of these gentlemen in putting up such a good offering. The catalog can be had by addressing either Mr. J. B. Stansell, Magnolia, Ill., or Mr. Henry Matern, Lostant, Ill. Bids sent to Mr. Carlos C. Palmer, Homestead representative, will be properly handled. The advertisement appears on page 57. When writing kindly mention The Homestead.

LAST CALL FOR GUTHRIE'S SALE.

On Thursday of next week, January 20th, Mr. A. T. Guthrie, of Newton, Iowa, will present to buyers consignments of Short-horn cattle, Shropshire sheep, Percheron mares and Shire mares that will be well worth the investigation of those who are interested in the improvement of their farm stock. In our last issue we expressed the opinion that the sheep were a strictly first-class lot, and we trust that those who are in need of Shropshires will take advantage of this opportunity. The Short-horns have not been given any special training for the sale and will, therefore, not be in as high a condition of flesh as they really ought to be. The fact will probably operate somewhat against them so far as prices are concerned, but the buyer will certainly be benefited in having secured cattle that are in prime breeding condition and that will certainly continue to do well and improve with only ordinary farm treatment. The Percheron mares will no doubt excite the interest of buyers to as great an extent as any other feature of the sale. One pair of them are well-matched four-year-old imported mares that ought to be kept together and that promise to be a good investment at any reasonable price from a breeder's point of view. Another pair of young mares with a great future ahead of them are blacks, three years old, and right every way. One pair are mature bay mares, big, strong-boned, husky ones that are pretty nearly the type now demanded by buyers. There are a number of younger things, but all are of breeding age and will have been bred before date of sale. There will be a nice bunch of Shire mares and one Shire stallion and this lot are really attractive. Most of them are young, ranging from two to five years old, well developed, good in bone and without blemish or fault of any sort. While Mr. Guthrie is a new candidate for favor in the field of public sales, The Homestead is glad to give him its personal commendation as a gentleman whose integrity may be depended upon and whose business ability and knowledge of live stock have enabled him to select a consignment that will be eminently satisfactory to buyers.

Do not forget that the sale will be held in the heated sale pavilion on the fair grounds at Newton, January 20th. Catalogs may be had by applying to Mr. A. T. Guthrie, Newton, Iowa. See the advertisement on page 50.

FRANCISCO'S POLANDS SELL ON FEBRUARY 10TH.

Mr. H. B. Francisco, of Hastings, Neb., sells on February 10th one of the strongest offerings of truly big, smooth Poland, with good feet and legs, to be sold in Nebraska. In fact, he has one litter that outclasses anything the writer has seen this or any other year. In all, he sells forty head, and among them are eight gilts by his chief herd boar, Great Hadley, of Big Hadley-Big Tecumseh breeding, a third-prize winner this year, out of Blue Belle by Expander, an Expansion boar, and out of a granddaughter of Chief Tecumseh 3d through Chief Justice. They have unusual scale, lots of quality, extra heavy bone, good feet and are well ribbed and deep; in fact, just all-around good ones. No man can possibly be disappointed on any one of them on a mail order. They are bred to the first-prize boar, King Mastiff, he by Meese's Mastiff, Naome's Pansiou by Expansion has six almost aa good and several other good ones. Anyone who wants to buy a good one can afford to pass up this offering. See later issues for complete announcements. Write now for catalog, mentioning The Homestead.

O'LEARY HEREFORD SALE.

We wish to call attention of our readers to the fact that on Monday, January 31st, Mr. D. S. O'Leary, of Iowa City, Iowa, will offer for sale at public auction fifty head of richly-bred Hereford cattle, consisting of thirty-five cows and heifers and fifteen bulls. The sale will be held in a heated sale pavilion at West Liberty, Iowa, so that excellent railroad facilities can be had and afford buyers an opportunity to reach the sale in good season. This is one of the most useful lots of well-bred Herefords that will be sold at auction this season. Of the thirty-five females listed, twenty-five have calves at foot and many of them are rebred. The bull offering is an unusually good one, there being three two-year-old bulls and twelve yearling bulls, most of them sired by Improver's Hesiod, he by Imp. Improver and his dam by Corrector, and all of the calves in the sale are sired by this noted bull. The two-year-old bulls are by Perfection Yet, he by Perfection, and his dam belonged to the Anxiety tribe. In our next issue we will have more to say regarding this offering, but would advise our readers to provide themselves with catalogs at once, kindly mentioning The Homestead.

CEDAR RAPIDS COMBINATION DUROC SALE.

On Friday, January 28th, will be held one of the most important sales of Duroc Jerseys at Cedar Rapids, Iowa, in the "A" Avenue sale barn. The well-known breeders, Messrs. Edwin Hummer, Iowa City, Iowa; C. R. Mills, Central City, Iowa, and Patten & Morris, Springfield, Iowa, have selected from the tops of their herds fifty head of yearlings and gilts, representing the best blood lines that are known to the breed and individually of the sort that should find ready sale at the hands of discriminating buyers. Every year sales of this character have been held at Cedar Rapids with good results to those who were purchasers and the offering made this year is a far superior one to any which have been sold. Catalogs are out and will be sent to any who write for same, as per announcement on page 48 of this issue. Bids sent to Mr. Dante M. Pierce, Homestead representative, will be properly handled. Full particulars regarding the offering will be given in our next issue. Cedar Rapids is centrally located and has numerous railroads, and buyers and farmers who wish to attend this important sale can leave home in the morning, attend this sale, and return home in the evening. The offering merits the attention of every farmer and buyer interested in Duroc Jersey swine.

WATSON'S POLAND CHINAS.

Mr. J. H. Watson, of Madrid, Iowa, an old patron of this paper, places an advertisement on page 47 in which he gives information of importance to those who want to improve their hogs. He is offering for sale a considerable number of brood sows. Some of them are matured sows of tried and proven breeding merit, some are fall yearlings and about fifteen head are spring gilts. All are of the growthy, early-maturing type which, while carrying the size so much in demand, are also attractive because of the style and finish which they retain. On this account we urge the value of these sows to buyers. Mr. Watson's herd is one of those which has always stood for high character without chasing after fads. He has purchased and sold good hogs year in and year out and will continue to do so, as will also those who purchase from him and use like methods. The gilts he offers are daughters of Imp's Leader, he by Impudence, and their dams are all of good lines of breeding. Two of the gilts are from Miss Acrobat 2d, she a granddaughter of Nemo L's Dude, her dam by Acrobat, he a son of that great show hog, Proud Perfection. Another litter of the same sort is from Lady Dude, a full sister to the above sows. Among the matured sows that are offered for sale is Lucy Price, a sow with plenty of big breeding in her pedigree and a breeder of merit, as well as one of her gilts by Dry Creek Chief will be sold. These sows will mostly have been bred to Alderman 151019. This hog is a son of Indiana, he by L. & W. Perfection. His dam is from the Sunshine strains. He was winner of second in class at the late Iowa State Fair and came home at eighteen months old weighing 600 pounds. He is a good looker, with excellent proportions and attractive in every way. A few sows are bred to J. H.'s Hadley, a hog that weighed 450 pounds at twelve months. His sire was a directly-bred Hadley and his dam was old Sweepstakes by Villisca. A late-bred sow that should be attractive to someone who knows good breeding when he sees it is the matured sow, White Jowl 2d. She is a daughter of Hands Down and her dam was by Johnson Chief, one of the good sons of that very great old Chief Tecumseh 3d. She is a good sow with quality and big and regular breeding that has never farrowed less



A PAIR OF IMPORTED PERCHERONS.

The engraving which appears herewith shows a pair of very handsome dapple gray imported Percheron mares that are cataloged for the public sale which Mr. A. T. Guthrie will hold at Newton, Iowa, on January 20th, as per advertisement on page 50 of this paper. This is an extra good pair, but for all that there are other highly attractive recorded draft horses in the sale. The pair of black four-year-old Percherons would make a good start for some farmer who wanted to raise pure-bred Percherons and yet wished to utilize the mares at ordinary farm work. Five extra good Shire mares will be sold; these are of the most approved Shire type and they are valuable animals. The thirty-five head of Short-horn cattle and sixty-five head of Shropshire ewes will altogether contribute to making this sale one of the highest importance. Every animal that goes into the sale will be right, as Mr. Guthrie expects to do business in such a manner as to satisfy his patrons. It is not yet too late to secure a catalog.

than a litter of ten. Mr. Watson will make quite reasonable prices, for which address him at Madrid, Iowa.

ROGERS' DISPERSION OF CHESTER WHITES.

Mr. A. A. Rogers, of Inwood, Iowa, writes regarding his coming sale of Chester Whites: "On account of having sold my farm, I am closing out my entire herd of Chester White hogs; also farm machinery and all other stock. My present herd of Chester White hogs was established in 1889, and it has been my aim to make this one of the best herds in the Northwest, and by careful mating and keeping nothing but the best of dams and herd headers, I have succeeded in carrying out my desire." Mr. Rogers has exhibited his hogs from year to year at the principal fairs, and has always had the pleasure of carrying off more than his share

of the ribbons. His herd header in the herd the past year was Monte 13697. Monte is a descendant of some of the most noted prize winners in the Chester White breed. Silver D. is another one of the good sons of Young Councillor, and his dam was Blue Bell by Highlander Chief 2d. Stewart is another one of Mr. Rogers' herd headers. He is the get of White Oak 2d, and his dam was Alice by Monte Cristo. White Oak 2d is one of the good sons of old White Oak, that was the World's Fair champion at St. Louis. True Highlander is another one that stood at the head of Mr. Rogers' herd. He is the son of Castle Light. The sows and gilts that he is selling are the daughters of Cello Boy by Councillor, Rising Sun by Hobson, Silver Banner by Young Press, Monte by Captain, Humbert's Boy by Humbert's Choice, Castle Light by Dandy Boy, Silver D. by Young Councillor, and others. If you

THE VAN STEENBERGE BELGIANS.

Mr. A. M. Van Steenberge, formerly located at Fairfax, Iowa, has recently moved to Ogden, Iowa, where he has established stables at which may be found specimens of Royal Belgian horses equal to those in any importer's barns. For the accommodation of his patrons a limited number of selected Belgian mares are kept, as well as also a few Percheron stallions. Mr. Van Steenberge being himself a native of Belgium, and with a wide personal acquaintance among the horse raisers of that country, has an advantage over other importers which enables him to procure his stock on such advantageous terms as to give the buyer in this country an advantage of at least 20 per cent over the prices quoted by other importers. While a number of excellent specimens are on hand at the present time, Mr. Van Steenberge has left for New York, where on the 20th of January



he will meet a new importation consisting of fifteen stallions and five mares. These animals will be of the same high order as those which have hitherto been brought over and sold by Mr. Van Steenberge. An exhibit from his barns made shows during the past fall at the Iowa State Fair, South Dakota State Fair and at the Sioux City Live Stock Show, capturing good prizes at each place. The engraving above is an excellent representation of one of the old country prize winners. Special prices on any of these animals will be quoted to those who visit the barns or write to Mr. A. M. Van Steenberge, at Ogden, Iowa. Ogden is located on the main line of the Chicago & Northwestern railway at its crossing of the Minneapolis & St. Louis railway and therefore easily reached from any direction. See advertisement on page 49.

want to buy Chester White hred sowa that are second to none, attend Mr. Rogers' sale on January 28th. Col. J. A. Benson will be the auctioneer. Sale will be held in a tent. For catalog address Mr. A. A. Rogers, Inwood, Iowa, and mention The Homestead. See page 47 for advertisement.

LAST CALL FOR GATES' DUROCS.

On January 20th, Mr. J. O. Gates will hold his dispersion sale of Duroc Jerseys on his farm, one and one-half miles southwest of Sheldon, Iowa. There will be eight tried sows and thirty-two gilts. The aged sows are the daughters of Notcher's Model, Royal Triumph, Jumbo Giant and Star Marshall. The gilts are the daughters of D. of Longfellow, Sioux Chief, Bon Bon 2d, Royal Triumph and Custer's Top Notcher. Mr. J. O. Gates is dispersing his good herd of Duroc Jerseys on account of selling his farm and going to Colorado, and in doing so will sell about the best lot of aged sows and young gilts that the Homestead representative has had the pleasure of inspecting this year. They have good feet and good bone and lots of quality, with an immense amount of size, being about the largest we have had the pleasure of inspecting, and Mr. Gates invites brother breeders and farmers to attend this sale, and they will not be disappointed in regard to the offering. There will be free hotel accommodations at the Howard Hotel in Sheldon for visitors, also free accommodation to and from the farm. Col. Patsy McGuire will be on the block, with able assistants. For catalogs, which are now ready, address Mr. J. O. Gates, Sheldon, Iowa, and mention The Homestead. Bids may be sent to the auctioneer, or to Mr. E. T. Parker, field man for The Homestead, and they will receive proper attention. When writing for catalogs please mention The Homestead. See advertisement on page 54.

HUMMER'S CHESTER WHITE DISPERSION SALE.

One of the largest and oldest herds of Chester White swine in the middle West will be dispersed at public auction at Keswick, Iowa, on Wednesday, January 26th, by Mr. A. A. Hummer. He has cataloged fifty-two head, three boars, twenty-three sows and twenty-six gilts, a splendid offering throughout. Mr. Hummer has been a successful breeder of Chester White swine for a number of years, but has recently sold his farm and for that reason is forced to make this sale at this time. In dispersion sales only are buyers given an opportunity to secure at their own prices many animals that heretofore have not been offered either privately or publicly and Mr. Hummer is offering a lot of sows that he had reserved for his own use that should prove money makers in the hands of buyers. For length, bone, strong backs and good feet it is doubtful if another offering of Chester Whites this entire season will compare with this one. They are sired by Humbert's Choice, he by the noted sire of champions and prize winners, Combination; Pres. O. K. by O. K. Mikado and the dam by Prescott Boy. Others of the offering are sired by Pioneer, one of the greatest breeding boars ever in use in this herd. This is a useful well-bred lot of Chester Whites that have been raised under practical farm conditions. Mr. Hummer has made no effort to overfeed this offering for sale purposes, believing that the best results are obtained from practical methods. Full information regarding the offering can be had from the catalogs which will be sent to all who write for same, as per advertisement on page 48 of this issue. Keswick is on the Muscatine and Montezuma branch of the C., R. I. & P. and three miles from Webster, on the Cedar Rapids and Ottumwa branch of the Milwaukee. Good connections can be made at Webster with trains on the Milwaukee. Bids sent to Mr. Dante M. Pierce, representing The Homestead, in care of Mr. A. A. Hummer, will be properly taken care of. Kindly mention The Homestead when writing.

LAST CALL FOR THE RYAN SHORT-HORN SALE AT SOUTH OMAHA.

On January 20th, at South Omaha, Neb., Mr. H. R. Ryan will make a dispersion sale of fifty head of Scotch and Scotch-topped Short-horn cattle, and it promises to be a good place to add some good things to your herd. There are a great many Scotch cows and heifers in this sale and some excellent young Scotch bulls. Many of the cows that he is selling in this sale will have calves at foot by his splendid breeding bull, Maater's Missie, a large, massive roan bull that has done excellent service in Mr. Ryan's herd. Many of the younger things in this sale are sired by him also, and they are a uniform lot and will go into the sale in good breeding condition. The three daughters of Mr. Ryan's old champion cow, Lovely 30th, are good things for the breeders to take hold of, and they are among the good things that he is offering in this sale. Lovely 33d, a daughter of Lavender King 3d, is one of the very attractive things in this sale. Her condition is such as will appeal to those lovers of the mellow-fleshed, easy-keeping kind and she is a nice thing, indeed, to put into some good herd. Lovely 35th is a nice yearling heifer, out of the old champion cow, and she is sired by Missie's Master. Her attractive blood lines will make her a desirable thing for some good breeders to grow and keep in some good herd. Nona, a splendid Orange Blossom cow and the dam of the very best young Scotch bull in the sale, will be a nice thing to buy because she is a breeder of outstanding merit. She is safe in calf again to Missie's Master. The young bull that we referred to is Orangeman, an exceptionally nice, mellow-fleshed roan bull that we made extended mention of in our last week's issue. We will just say to our readers, here is a nice young bull that will grow out into a splendid herd bull if he is given half a chance. Mina 8th, a daughter of the celebrated bull, Diamond Jubilee, is a good breeding cow and she also has a good heifer in the sale and is safe again to Missie's Master. There are a number of other good Scotch cows and heifers in this sale, as well as a few splendid young Scotch bulls. Besides the Scotch cattle, there will be some splendid Scotch-topped sorts and they will be among the best individually that he is offering in the sale. Many of these will have calves at foot and all that are old enough will be bred and many well along in calf. The cattle have not been pampered for this sale and will be sold just as they are, in good breeding condition.

There will be about twelve bulls in the sale of Scotch and Scotch-topped breeding, and many of these will make good herd bulls when matured. There is a future in store for the breeders of good Short-horns and here will be a good place and a good time to replenish or add to your herd. Write Mr. H. K. Ryan for a copy of his catalog and kindly mention The Homestead. See advertisement on page 55.

GEORGE WHITE OFFERS SCOTCH BULLS FOR SALE.

In a recent letter from Mr. George H. White, Emerson, Iowa, the well-known breeder of Scotch Short-horns, he writes as follows: "I have a number of good Scotch bulls for sale or I will trade them for Scotch cows. The man that wants a good Scotch bull can get one at the right price if he comes and sees me, or the man that has some good Scotch cows will also find this a good place to make a deal for bulls. The cattle are coming along nicely and I am getting a choice lot of young calves. I just had a fine bull calf dropped by Superbus and out of a Duchess of Gloster cow. I also sold to Mr. George Bellows the splendid senior bull calf, Missie's Sultan 316621. This calf was a winner in nearly all the shows and he is a proposition that Mr. Bellows thinks is all right for the future. Just let your bull buyers know that I have some good things for sale and I hope they will call and see me and I will take pleasure in showing them what I have on hand." See advertisement on page 55.

WHEELER'S "TABLE-BACKED" HERE-FORD SALE.

One of the most important Hereford sales that will be pulled off this year will be that of Mr. W. W. Wheeler, at Harlan, Iowa, on February 10th, when he will dispose of his entire herd of "table-backs," and it ought to be one of the great sales of the season. Mr. Wheeler has sold his farm and the herd must go. Included in this offering will be such great cows as Imp. Quince by Barry, Imp. Mayoress by Majestic, Imp. Kensington Rose 4th by Ignition, Imp. Garland by Britisher, Imp. Dowager by Spartan, Rosetta by Beau Brummel, Peggy Primrose Jr. by Albert, Lady Hesiod 3d by Hesiod 17th, Armour Sunflower by St. Louis, Lady Columbus 26th by Columbus, Delight by Gentry Britton, Camille by Cherry Grove Boy 2d and other celebrated cows that have cost Mr. Wheeler all the way from \$475 to \$1,000. Some of the best cows that will be found in any herd in the United States will be seen in this offering. A great many of the cows in this sale will have calves at foot by his former great bull, Beau Donald 37th, and many of these will be rebred to Beau Donald 72d. There will be a great many sons and daughters of Beau Donald 37th in this sale and these are as good as have ever been driven through a sale ring. Beau Donald 37th was formerly used in the Wheeler herd and we unhesitatingly say that he was one of the greatest sons of old Beau Donald. As a sire he made good and he was one of the best individual bulls of the breed. Mr. Wheeler originally purchased a whole herd in order to secure this bull and he used him until he died. There will be ten head of Beau Donald bulls in this sale and we want to say to our Hereford friends that Mr. Wheeler never sold a better bunch of bulls in his life. The cattle will be in splendid condition and it will be one of the great events of the season to buy good Hereford cattle and buy them at your own price. When laying the foundation for his herd Mr. Wheeler never spared time nor expense to secure just what he wanted. He searched the very best herds in this country and he attended all of the great sales. When an animal came into the ring that he wanted he never stopped bidding until he got it. Some of the matrons that have graced the Wheeler pastures have made their record in the great shows of the country, and others have made themselves noted through their produce. The cattle are there, however, and they are to be sold at whatever price the buyer is satisfied to pay. It will be an excellent place to lay the foundation for a herd of Hereford cattle. All of Mr. Wheeler's experience, together with all of his work in building up this splendid herd stands behind the cattle, and we therefore say it will be a good sale to attend. Write for his catalog and be sure that you attend the sale. (Kindly mention The Homestead when writing.) See advertisement on page 48.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago, Union Stock Yards, January 10. —The year 1910 has started out in a way that should bring cheer to the feeders of live stock. Prime beef steers are quotable up to \$9.00, a remarkably high price for this time of the year. Hogs sold as high as \$9.05, a record figure for January. Lambs made \$9.10, yearlings \$8.35, wethers \$6.20 and prime heavy ewes \$6.25, also new high prices for the first month of the year. And the future outlook is very promising. Industrially, the country is in excellent shape. This spells a broad demand for beef, pork, mutton and lamb meats. The fat grades of stock will not be laggards under judicious marketing.

CLASS OF CATTLE TO FEED LONGER.

Prices for fat cattle are remarkably high for this time of the year. And present and prospective conditions surrounding the trade warrant taking a most optimistic view of the future. Industrial conditions are in a most flourishing shape. Busy factories are seen all over the country and labor is being engaged on every hand. With the laboring men employed at good wages a broad outlet for beef is insured. For the above reason, Clay, Robinson & Co. strongly advise against marketing good quality steers that lack finish, where parties have the feed and the hogs to follow them. Cattle of this class should pay a good profit if held and put in first-class condition for slaughter. However, common quality offerings should not be held back any longer than practicable. It is better to put the wheels under them and not take any chances.

ANOTHER BULL MOVEMENT IN SWINE.

The unexpected happened in the hog market again last week. Instead of material

enough at hand to enable packers to inaugurate a campaign of retrenchment in prices, they were put to it to secure enough swine to meet current necessities. In the scramble which resulted prices were forced back to the high point; in fact, without actual cost sheets at hand, it is open to question if purchases were not the highest of the winter season. Transportation of swine to market was deferred by storms over practically all producing territory and by a pronounced inability of rail lines to furnish cars, return of "empties" to loading points having been retarded by the same weather conditions, which caused most aggravating delays in getting stock to market. Where hog-house "talent" confidently guessed 40,000 to 50,000 hogs for Monday, actual receipts were 27,795, and part of this number did not get in for market that day. Tuesday experience was a repetition of Monday and late day history but little different from Tuesday. Heavy snow and consequent abandoned trains west of the Mississippi river Tuesday night no doubt will curtail shipments for a while. Generally, the outlook is healthy. However, when weather conditions permit receipts will improve, but shoats can be fed out with every hope of good profit.

BIG ADVANCE IN BEEF STEERS.

Prices for beef steers last week advanced 30 to 50 cents over the close of the previous week, most of the gain being made after Tuesday. Both local and eastern buyers seemed hungry for the offerings. Bulk of arrivals were short-fed and warmed-up steers. The top was \$3.05, paid for two loads of 1,495 pounds average, with most sales at \$5.50 to \$7.00. Selling of cows and heifers largely at \$3.50 to \$4.85 and most bulls at \$3.75 to \$4.75. Best feeders made \$5.25, with bulk at \$4.35 to \$4.85, and most stockers \$3.50 to \$4.25.

SENSATIONAL TRADE IN HOGS.

Prices for hogs last week went higher every day and last trades showed 40 to 60 cents advance over the close of the previous week, top offerings showing most gain. The summit for the week was \$9.05 and bulk of trading \$8.50 to \$8.95. These prices are the highest ever paid at this time of the year.

RECORD PRICE FOR SHEEP AND LAMBS.

Another good price gain for sheep and lambs last week, the advance over the close of the previous week being 10 to 25 cents, lambs and yearlings selling to best advantage. Tops for the week were: Lambs \$9.10, yearlings \$8.35, wethers \$6.30 and prime heavy ewes \$6.25. Never before have such prices been paid at this time of the year. Bulk of trading was at \$5.25 to \$6.00 for sheep, \$7.25 to \$8.00 for yearlings and \$8.00 to \$8.75 for lambs.

HUFFMAN AVERAGES \$55 ON DUROCS.

The sale of Mr. Claud Huffman, at Scranton, Iowa, on January 5th, was made after one of the most desperate efforts we have ever seen on the part of the breeders to get to the sale. About twenty men, including drivers of the teams, left Panora, Iowa, after nightfall, in bobsleds, to go to Herndon in order to reach the main line of the Milwaukee. The storm of the day stopped all trains on the north branch and this was the only way the breeders could get there. The trip was the worst ever undertaken and the boys encountered snowdrifts all along the line; the horses became fagged out and repeatedly got down and had to be shoveled out. It looked for a time like they would never get through, but they finally got to Herndon at twelve o'clock at night. Here they succeeded in getting the dispatcher to stop the fast train and they finally got to Coon Rapids at three o'clock in the morning. At eight o'clock they again started across the country, thirteen miles, with the thermometer 14 degrees below zero, finally arriving at Mr. Huffman's home at noon-time. Notwithstanding the storm and all these difficulties, Mr. Huffman went on with the sale and made an average of \$55, the top being the Valley Chief sow, Chief Maid. She went to Mr. Murray Putnam, Tecumseh, Neb., at \$125. Col. F. F. Luther cried the sale. Below is a list of sows sold and prices received:

1	Belle's Fancy, James Williams, Mareus, Iowa	\$117
2	Belle Top, Walmeyer Bros., Melbourne, Iowa	80
3	Chief's Maid, Murray Putnam, Tecumseh, Neb.	125
4	Achiever's Lady, R. J. Amsden, Scranton, Iowa	38
5	Fancy Advance II, Ernest Pettit, Perry, Iowa	48
6	Crimson Cherry, S. L. Hopper, Neola, Iowa	80
7	Corrector's Maid, E. E. Handley, Carroll, Iowa	67
8	Kendrick Girl, Henry Watt, Ralston, Iowa	41
9	Whitehall Lady, John Goddard, Harlan, Iowa	88
10	W. A. Rankin, Carson, Iowa	58
11	Floyd Knapp, Redfield, Iowa	80
12	Wm. Southall, Irwin, Iowa	57
13	F. B. Butterfield, Ankeny, Iowa	54
14	H. B. Davis, Corning, Iowa	45
15	Sam Stewart, Kennard, Neb.	74
16	M. S. Moats, Missouri Valley, Ia.	50
17	Joe Dauner, Yale, Iowa	43
18	F. W. Dannaer, Scranton, Iowa	35
19	J. T. Hunter, Scranton, Iowa	28
20	W. R. Class, Glidden, Iowa	36
21	Geo. Seckman, Mt. Sterling, Ill.	27
22	Edmonds, Shade & Co., Kingsley, Iowa	75
23	A. McCurdy & Son, Alta, Iowa	37
24	W. R. Class	30
25	Sexsmith & Strong, Madison, Ia.	36
26	W. R. Class	52
27	List Bros., Granville, Iowa	51
28	Lee Cantine, Quimby, Iowa	48
29	C. A. Rasmussen, Harlan, Iowa	38
30	W. E. Fielding, Scranton, Iowa	35
31	C. E. Veak, Essex, Iowa	35

ALSIN'S DUROC SALE.

The fourteenth annual brood sow sale of Mr. A. P. Alsine, held at Boone, Iowa, on Thursday, January 6th, was very satisfactory to both seller and buyer. Forty-eight head were disposed of for a total of \$2,752.50, an average of nearly \$60. Colonels Luther and Reppert did the selling. Full details will appear in our next issue.

(POSTPONED)

MOSSMAN'S COL. SOW SALE

Radcliffe, Iowa, Monday, January 24, 1910

45 Head--20 Yearling and Aged Sows--25 Spring Gilts

The Offering is the Best That We Have Ever Selected for a Sale.

The yearlings and aged sows are sired by such noted boars as Tientsin, Tientsin No. 2, Crimson Chief, Iowa Chief, Waveland's Ohio Chief, A. L.'s Chief and others. The gilts are by Colonel's Prince and Iowa Chief. They will be bred to Iowa Colonel, Model Advancer, Gold Prince, Gold Prince II. These boars are rich in the blood of Prince of Colonels, High Chief, Ohio Chief, Model Chief, Advancer. Quality, size and breeding of the offering make it easily one of the strongest of the entire year. Write for catalogs. Bids sent to Dante M. Pierce, will be properly handled. Address for catalog, mentioning Homestead,

A. L. MOSSMAN & SON, RADCLIFFE, IOWA.
Cols. Fred Reppert, O. L. Mossman, H. L. Igleheart, Aucts.

VEENKER'S BIG DUROCS

AT AUCTION

WEDNESDAY, JANUARY 26, 1910

I will sell on my farm, five miles east of George, Iowa, one mile west and six miles south of Little Rock, Iowa, five miles west and two miles north of Ashton, and there will be free accommodations to and from the farm from all these points; thirty-eight head in the sale, sixteen sows and fall gilts, and twenty-two spring gilts. They are the daughters of Sioux Chief by Sioux Brave, Minor Heir by Star Marshall and Bon Bon. There will also be three November yearlings, sired by Junior Jim; their dam is Sadie by Tolstoi. They are about the best in the sale. They are bred to Crimson Dale, he by Dale, the sweepstakes hog in Minnesota, Rex Wonder Jr., by Rex Wonder. Sale will be held in a tent; free lunch at noon. Cols. C. E. Luther & Son and Scott Martin, auctioneers. E. T. Parker, fieldman for The Homestead. For catalog, address

R. C. VEENKER, GEORGE, IOWA.

Attention is called to the sale of C. A. De Vault, Inwood, Iowa, January 27th, Duroc sows, and A. A. Rogers, Inwood, Iowa, January 28th, Chester Whites.

TOO LATE TO CLASSIFY.

Rogers' Dispersion of Chester Whites

ON JANUARY 28th, at my farm, in Inwood, Iowa, I will disperse my entire herd of Chester White hogs, consisting of tried sows, fall and spring gilts, all bred. For catalogs, which are now ready, address **A. A. ROGERS** INWOOD, IOWA.

25 Duroc Jersey Bred Sows For Sale

I AM offering a choice lot of bred sows and gilts at private sale, bred to Iowa Model 24215 and Fanny Orion 86301. These sows are sired by the leading boars of the breed. Prices reasonable. Write me at once. Address **MARK W. EDDY, FONTANELLE, IOWA.**

Sixty Poland China Bred Sows

FIVE sired by Impudence, 4 by Keepsake, 15 by Importance, 15 by Kemp's Leader, 2 by Keep Ahead and others. Sows are bred to Importance, Reflector, King Wonder, Reflector II., and Mastodon III. 15 spring boars for sale, sired by Kemp's Leader, Reflector and Importance. Oliver Whiteman, Biggsville, Ill.

OAKSIDE HERD of "Monster Pattern" POLAND CHINAS

HERD headed by Monster Pattern (weight 360 pounds at seven and one-half months old, 800 pounds yearling, eleven-inch bone), Oakside Chief (750 pounds yearling, 300 pounds at maturity). Herd sows large and prolific. Open and bred sows for sale at very close prices. Ask for catalog and get posted. There is a "tip" in it to every prospective buyer. Direct shipping facilities. Address

A. S. JUCKETT & SON, Oakside Farm, Route 2, Fremont, Nebraska.

Bred Sows for Sale

EXTRA good Duroc Jersey gilts of good strains of breeding, raised for size, and bred for early litters to a son of W. L. A.'s Choice Goods. Will also sell my herd boar, Porter's King of Cols. Write for prices or come and see them.

J. C. PORTER - OGDEN, IOWA.

Farmers, Attention!

I HAVE one of the best Percheron stallions in the country. He is registered and weighs 2,200 lbs. Will sell him for one-half what he is worth, and he can more than pay for himself the first season. A sure foal getter and all right in every way. Must make a change on account of his colts coming on. **BOX 446 - NEVADA, IOWA.**

J. E. Wehr's Annual Sow Sale

Portsmouth, Iowa, Saturday, Jan. 22, 1910. FORTY HEAD OF GOOD SOWS. There are 20 aged and yearling sows and 20 choice, growthy gilts. **J. E. Wehr, Portsmouth, Iowa.**

A BEEF SIRE

FOR SALE—A two-year-old past typical Aberdeen Angus bull, Black Roger S. 119472. Can show calves by him. **W. S. Secor & Sons, Melbourne, Ia.**

Speirs' Durocs Bred sows for sale; Ohio Junior 38521, Silver King, Red Eagle, Dandy Boy boars in service. **G. W. Speirs, Hedrick, Ia.**

Pleasant Lawn Duroc Jersey gilts, safe in pig for March and April farrow; good bone and good color. **Frank Warwey, Mt. Pleasant, Iowa.**

Deoye Bros. Mason City, Iowa, breeders of Duroc Jerseys. Bred sows for sale. Ohio Chief and Advancer strains; bred to a Col. boar.

PURE-BRED HOLSTEIN CATTLE

are without any question the finest all-round breed of cow for use on the farm because they are even-tempered, readily adapt themselves to conditions, and give large quantities of milk ranging from 3.43 to 4 per cent butter fat with an 8 to 9 per cent casein. Then, again, they breed regularly, producing large calves with great vitality, and for this reason they will thrive and grow with very little care. Pure-bred Holsteins are the most profitable of all breeds for milk, butter and cheese.

"Holsteins are the most profitable cattle."

Send for Free Illustrated Booklets

HOLSTEIN-FRIESIAN ASSOCIATION
100 American Bldg., Brattleboro, Vt.

Poland China Bred Sows

MATURED sows, fall yearlings and spring gilts, with both size and quality, and carrying as good strains of blood as the breed affords. In good thrift. Bred to Alderman 151019 (second at Iowa State Fair) or J. H.'s Hadley. Low price and high quality. **J. H. WATSON - MADRID, IOWA.**

For Sale My Angus herd bull at a bargain. Three years old, and a sure breeder guaranteed. **A. B. Horfelman, Platte Center, Nebraska.**

MIDLAND Durocs—8 gilts and 2 sows, bred for April farrow, for sale. The big-boned, growthy kind at moderate prices. **S. J. Butts, Mason City, Ia.**

When writing please mention this paper.

DISPERSION SALE OF CHESTER WHITES

AT PIONEER STOCK FARM ADJOINING

Keswick, Ia., Wednesday, Jan. 26

52 Head--3 Boars--23 Sows and 26 Gills

HAVING sold my farm I am offering a lot of sows that I had kept from the best of my breeding, those that have been prolific and kind mothers. For length, bone, strong backs and good on feet, I think my herd is not equaled in the Chester Whites. Look at the breeding: Humbert's Choice, sired by Combination; Pres. O. K., sire O. K. Mikado, dam sired by Prescott Boy. Some of the sows are from that great hog, Pioneer; others as good. A chance to get the best. Keswick is on the Muscatine and Montezuma branch of the C., R. I. & P. R. R. Good connections via Webster with Cedar Rapids and Ottumwa, on C., M. & St. P. R. R. Write for catalog, mentioning Homestead. Send bids to Dante M. Pierce, representing Homestead, in my care.

A. A. HUMMER, KESWICK, IOWA.

Cols. C. C. Evans and C. S. Seymour, Auctioneers.

IMPORTANT DUROC SALE

AT "A" AVENUE SALE BARN
CEDAR RAPIDS, IOWA,

FRIDAY, JAN. 28, 1910

50 Head Richly Bred
— SOWS — 50

FROM THE FOLLOWING
WELL-KNOWN HERDS—

EDWIN HUMMER, IOWA CITY, IA.
C. R. MILLS, CENTRAL CITY, IA.
Patten & Morris, Springville, Iowa.

We are listing nothing but the very best, believing that buyers appreciate the profitable kind. Write for catalogs, mentioning The Homestead.

EDWIN HUMMER, IOWA CITY, IOWA.

Cols. McGowan and Day, Auctioneers.

Send bids to Mr. Dante M. Pierce, representing Homestead.

ABSOLUTE DISPERSION SALE

OF

WHEELER'S Table-Backed HEREFORDS

45 Cows and Heifers--25 Bulls

WHICH MEANS THAT EVERY ANIMAL IN WHEELER'S CELEBRATED
HERD OF TABLE-BACKED HEREFORDS WILL BE SOLD AT

Harlan, Ia., Thursday, February 10, 1910

I have sold my farm and have to give possession March 1st. Here is a chance to buy such cows as Imp. Victorine 3d by Clarence; Imp. Quince by Barry; Imp. Mayoress by Majestic; Imp. Kensington Rose 4th by Ignition; Imp. Garland by Britisher; Imp. Dowager by Spartan; Rosetta by Beau Brummel; Peggy Primrose Jr. by Albert; Lady Hesiod 3d by Hesiod 17th; the \$40,000 Armour Sunflower by St. Louis; Lady Columbus 26th by Columbus; Delight by Gentry Britton; Camille by Grove Cherry Boy 2d. These cows cost me from \$475 to \$1,000 each and they have made a fortune for me and they will make the buyers independently rich. Several of them have calves at foot by Beau Donald 37th and they are bred again to Beau Donald 72d. There will be an endless amount of sons and daughters of Beau Donald 37th in this sale, and lucky will be the breeder who gets my great breeding bull, Beau Donald 72d. Ten head of Beau Donald bulls. I am going to offer in a day what has taken me a lifetime to accumulate. The man that fails to attend this sale will regret it all his life. Send for catalog. I invite everybody on earth to spend February 10th with me.



W. W. Wheeler, Harlan, Iowa.

Col. H. S. Duncan, Auctioneer.

WIGSTONE BROS.' BIG-TYPE POLAND CHINA BROOD SOW SALE STANTON, IOWA, JANUARY 28, 1910

40 HEAD—20 YEARLING AND AGED SOWS—40

Fellow Breeders and Farmers:—If you are wanting the larger type of Poland China brood sows with the big bone, and with all the quality that is consistent with the big hogs, then you should come to our sale. The blood of Giantess, Pawnee Lad, Big Prospect, Long King and other well-known sires is represented in our sale. It is an offering that we can highly recommend to the breeders and the farmers of the West. You will be interested in our catalog. Send for it at once and mention Homestead. Address

WIGSTONE BROS., STANTON, IOWA.

Col. H. S. Duncan, Auct. C. C. Carlin, Field Man for Homestead.

GRITTERS' BIG POLANDS

AT AUCTION

TO BE HELD ON THE FARM FOUR MILES NORTH OF

HULL, IA., TUESDAY, FEBRUARY 1, 1910

50 Head of the big-type Poland China bred Sows and Gills

ONLY a few are aged sows, balance fall and spring gilts, sired by Longfellow Jr., Choice Chief Price, Chief Leader, King by Beauty's Jumbo, Long Price and A Wonder. They are bred to Longfellow Jr., Gritters' Longfellow, North Star Chief, Long Prospect and Ideal by King Dodo. The aged sows will weigh around 600 to 700 pounds, and the spring gilts from 300 to 350. If you want the largest type of Poland China hogs in the world, come to my sale and you will have a chance to buy them. Free entertainment and free transportation to and from the farm. Catalogs are now ready and may be had by addressing

Cols. J. A. Benson and Henry Moen, Aucts.
E. T. Parker, Field Man.

E. GRITTERS, HULL, IOWA.

SOUTHWEST IOWA

DUROC JERSEY SALE CIRCUIT

VEAK'S GREAT DUROC SOW SALE

FIRST DAY OF THE
SOUTHWESTERN
SALE CIRCUIT

Essex, Iowa, Tuesday, January 25, 1910

40 HIGH-CLASS SOWS AND GILTS BRED TO H. A.'S CHOICE GOODS, HIGH COL., MODEL PRINCE AND PROUD COL.

Attractions: Proud Lady's Best, first-prize sow at Des Moines in 1908; Village Queen by Cole's Duroc; Ruberta Billie by I Am A Wonder; Madison Lady by Proud Chief Orion; Model Queen by Model Prince; Avoca Chief by Ohio Chief, bred to Choice Goods; a fall sow by Proud Ohio Chief, a show proposition, and other good sows. The gilts are sired by Model Prince, H. A.'s Choice Goods, Russell's Critic, Model Chief 8th and Chief's Col. Also a good yearling sow by Proud Chief out of Savannah Belle. Cols. F. F. Luther and Alvah Manifold, Auctioneers. M. T. White, Field Man for Homestead. Write for catalog and mention Homestead.

C. E. VEAKE, ESSEX, IOWA.

FORTY HEAD BRED SOWS AND GILTS

Nevinville, Iowa, Wednesday, January 26, 1910

Second Day of the Great Southwestern Sale Circuit

HERD HEADED BY VALLEY KING 87311, the best son ever sired by Valley Chief. 1 Valley Chief sow; 2 C. G.'s Choice Goods gilts, fall yearlings; 2 W. L. A.'s Choice Goods gilts out of an Ohio Chief dam. Iowa Model by Commodore, also used in this herd; he is a good, deep, smooth, two-ended hog, heavy bone. Both these boars are great breeders for size and quality. 1 Crimson Wonder Again yearling is probably the best sow in the sale; she won sixth at Des Moines in 1908. Cols. F. F. Luther and Alvah Manifold, Auctioneers. M. T. White, Field Man for Homestead. Write for my catalog at once and mention Homestead. Address

S. J. MADISON, NEVINVILLE, IOWA.

SEXSMITH & STRONG'S BROOD SOW SALE

Third day of the Southwestern Sale Circuit

Greenfield, Iowa, January 27, 1910

FIFTY---EXCELLENT SOWS AND BEST OF BREEDING---FIFTY

THEY are bred to Golden I Am by Golden Rule; Proud Col. by Prince of Cols.; The Col. by King of Cols. II.; a good son of Valley Chief and the champion boar, H. A.'s Choice Goods. There are 4 daughters of Crimson Wonder Again, dam Ohio Belle; daughter of Ohio Chief and Nebraska Belle in our sale. 3 daughters of Valley Chief; 10 daughters of H. A.'s Choice Goods; 5 daughters of Proud Advance; 2 daughters of Ohio Chief. Others by Model Wonder, Chief's Col., Lafollette, Ohio Chief Again, Keep On Protection and other well-known boars. Cols. Luther, Reppert and Manifold, Auctioneers. M. T. White, Field Man for Homestead. Write for catalog, mentioning Homestead.

Sexsmith & Strong, Greenfield, Ia.

CRIMSON WONDER AGAIN 40785

First Prize and Sweepstakes
Boar Iowa State Fair 1906

HERE ARE THE WINNINGS OF HIS GET FOR 1909, IOWA STATE FAIR:
First on boar under six months.
Second on boar under six months.
First on sow under six months.
Second on sow under six months.
Fourth on aged boar.
Fifth on senior yearling boar.
Third on boar under 12 months.
Sixth on boar under 12 months.
Fourth on aged herd bred by exhibitor.
First on young herd.
First on young herd bred by exhibitor.
Second on get of sire.
First on litter.
Fifth on litter.

NEBRASKA STATE FAIR, 1909:

Second on aged boar.
Third on aged boar.
Fourth on senior yearling boar.
Third on boar under 12 months.
First on boar under six months.
Third on boar under six months.
Second on junior yearling sow.
First on sow under six months.
Third on sow under six months.
Fourth on aged herd.
Second on herd under year.
Fourth on get of sire.
First on produce of sow.
Second on produce of sow.

H. S. ALLEN'S GREAT CRIMSON WONDER AGAIN SALE

Chariton, Iowa, January 28, 1910

40 Head--15 Gilts, 25 Yearlings and Aged Sows

TWENTY-FIVE head bred to Crimson Wonder Again, the most sensational sire of winners of the present time. There will be 12 head of Crimson Wonder Again sows in the sale, bred to Model Chief 8th, second-prize boar at Iowa State Fair; 5 daughters of the great Valley Chief, all bred to Crimson Wonder Again; 1 Prince of Cols. sow bred to Crimson Wonder Again. I am also selling Lady Wonderful, second prize sow at Nebraska State Fair and Queen Wonderful, both daughters of Crimson Wonder Again, bred to Model Chief 8th. Here is the greatest offering I have ever sold and I question whether a better offering will go through a sale ring this year. Cols. F. F. Luther and Alvah Manifold, Auctioneers. Send bids to M. T. White, Homestead representative, in care of Mr. Allen. Write for my catalog and come to the sale. Address, mentioning Homestead, to

H. S. ALLEN, RUSSELL, IOWA.

M. T. WHITE, HOMESTEAD REPRESENTATIVE, WILL ATTEND THESE SALES AND WILL CARE FOR BIDS SENT HIM IN CARE OF ABOVE BREEDERS

Percherons and Belgians

I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years--late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.

W. J. HARTUNG MAXWELL, IOWA,

Offers 25 choice Duroc sows for sale, sired by S. E.'s Jr. Jim, Advancer IV., Golden Model II., and bred to W. J.'s Colonel by Prince of Colonels and son of Golden Model II. for March and April farrow. Priced from \$25 to \$50. Write if you mean business.

SHORT-HORNS and PERCHERONS

We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices.

SMITH & BARNHART, South English, Iowa.

Duroc Jersey and Shropshire Sheep Sale

81 Duroc Jerseys, 58 Shropshires, at my farm near Tippecanoe City, Ohio, February 5, 1910. 51 bred sows, 30 gilts and boars, 52 ewes, 6 rams, best of blood lines. Igleheart and Reppert, Aucts. Write for catalog.

D. H. WARNER, TIPPECANOE CITY, OHIO.

GUTHRIE'S COMBINATION AUCTION

IN STEAM HEATED FAIR
GROUND PAVILION

NEWTON, IOWA, THURSDAY, JANUARY 20, 1910



PERCHERON AND SHIRE MARES

The lot includes 15 choice recorded horses. The Percherons are two matched dapple gray imported 4-year-old mares; two matched bay mares; two matched 3-year-old black mares; one 2-year-old mare; five Shire mares with good quality; one Shire 2-year-old stallion; two standard bred stallions. The mares are all bred and safe in foal.

35 SHORT-HORN CATTLE

Thirty-five cows and heifers of breeding age and all safe in calf. Quite a proportion of them are Scotch, of the Generosity, Butterfly, Claret, Dainty Dame and Golden Drop families, and the remainder have good Scotch top crosses. Two of the bulls are of good Scotch breeding. A portion of the cattle are consigned by Ray Carrier.

REGISTERED SHROPSHIRE EWES

The consignment of sheep is an extraordinarily good one, 65 head or more. More than half of them are spring lambs and yearlings by the imported ram, Clover Hill's 396 (08008 R.), and none are of advanced ages. All are bred, many of them to the ram mentioned. For catalogs address

AUCTIONEERS { Cols. McGuire, McCord
and McMurray

A. T. GUTHRIE, NEWTON, IOWA.



BIG DUROC DISPERSION

HELD IN PAVILION AT

Friend, Neb., Wednesday, January 26, '10

Will contain in all 75 Head 40 AGED AND FALL YEARLINGS, 75
33 GILTS AND 2 HERD BOARS

AND every profit maker I own, including such as Glendale Maid, a three times sweepstakes winner by Glendale Critic and three daughters by sons of Ohio Chief and Model Chief. Red Bud I. by Medoc, Lucy Advance by Billie K., out of a litter sister to Proud Advance; Belle's Lady by Adams Express, a full brother to Crimson Wonder, and several others of equally as good breeding and individuality. There is also a line of fall yearlings that are very strong. The spring gilts are by Billie Davis, King Perfection (a son of Van's Perfection) and I Am A Crimson Wonder, the sensational spring boar at Des Moines and Lincoln, 1908. The offering are bred for the most part to Billie Davis, he a son of Tom Davis, out of Red Bud I., and I claim for him more size and flesh-carrying qualities, with good bone, feet, hams and breezy head than any boar in the West; and to Crimson Wonder Jr., a show boar by I Am A Crimson Wonder, out of an Orion-Jr. Jim-bred sow. They also sell. Get my catalog now ready. Bids should be sent to Fred S. Larkin, in my care. Col. W. F. Waldo, Auctioneer.

Frank Alldritt - Friend, Neb.

Current's Big Duroc Sale

TO BE HELD AT

Hildreth, Neb., Thursday, January 27, 1910

30 Head 1 Aged Sow, 3 Fall Yearlings 30
and 26 Spring Gilts

CONSISTING of one aged sow, three fall yearlings and twenty-six spring gilts. The aged sow is Beautiful One, a choice sow of Orion-Proud Advance breeding, and several daughters of Jumbo Jr., twice a winner of first prize at Nebraska State Fair, and Rosebud's Echo 82261, a second-prize winner of 1909, with others by Invented, a valuable son of Inventor, Kant Be Beat Jr., Farmer Burns, Echo Top, and are bred to the herd boars, Rosebud's Echo 82261 and Invented 82297. The size and quality of my offering compare favorably with any I have made in the past and I feel that I have one that will compare with any made anywhere and one that will satisfy the most exacting, not only in breeding, but in quality. The catalogs are now ready. Bids should be sent to Fred Larkin, in my care. Col. W. F. Waldo, Auctioneer. Address

T. J. Current, Hildreth, Neb.

Duroc Jersey Show Sows

AT PUBLIC SALE AT

Mason City, Iowa, February 2, '10

WE ARE long on quality in this offering, even if we are a little short on numbers. Show sows of show blood and bred to boars that carry the most prominent show-yard strains of the breed, cannot fail to produce show pigs. That is the kind we sell. Some tried producing sows, daughters of Ohio Chief, Model Wonder by the sweepstakes Crimson Wonder Again, Model Chief Jr., Jumbo Jack by a grandson of Protection, etc. Twenty-five great gilts with backs to beat the band, heads and ears that set the style and feet and legs that were made to order. Why not? They are daughters of Model Improver (champion at the Minnesota State Fair and sire of state fair winners), O. T.'s Model (prize winner at three state fairs), and Iowa Chief (a double-bred Ohio Chief that also has ribbons to his credit at three great state fairs). They are bred to Golden Model Jr., Notcher Chief, and Model Improver. J. L. McIlrath, auctioneer. Send mail bids to C. C. Carlin, of The Homestead, in my care. Send for catalog.

O. T. BALMAT & SON, MASON CITY, IOWA

AND BREEDING SOWS TOO

GO IN MY CLOSING-OUT SALE

Mason City, Iowa, February 3, '10

HAVING sold my farm, I am obliged to close out my herd of Duroc Jersey hogs, which will compare favorably with the best in the land. I believe I have as strong crosses of Ohio Chief, Advance and Crimson Wonder strains, as good individuals to prove the value of the crosses as any one breeder. Fourteen of them are matured producing sows that money could not buy if I were not quitting the business. Daughters of Model Chief, Model Improver (Minnesota sweepstakes), Keep On, Chief Advancer, Phallas, Advancer Boy (full brother to Proud Advance, Advancer, etc.), and out of sows by Model Improver, Advancer and Proud Advance. Twenty-five gilts by Proud Wonder (son of Crimson Wonder Again), Chief Advancer and Duroc Wonder. They are mostly bred to the Morton-bred Chief Select 88307, the most intensely Colonel-bred boar in the West, as well as a prize winner at the Ohio, Indiana and Kentucky State Fairs. A few are bred to Proud Wonder. Colonel McIlrath, auctioneer. Send bids to C. C. Carlin, of The Homestead, in my care. Catalogs ready.

G. H. Purdy, Mason City, Iowa.

J. O. James' Great "Pawnee Lad" Offering POLAND CHINA Bred Sows

Braddyville, Iowa, January 18, 1910

40 Head Matured Sows---Yearling Sows---Spring Gilts

36 HEAD of these are daughters and granddaughters of my old herd boar, Pawnee Lad, considered by the best of breeders to be the greatest breeding boar used in Iowa in recent times. There will be 8 or 10 sows in the sale bred to him. This offering has been selected with great care, and is one of the most practical and best lot of big-boned, big-type Poland China brood sow sales that will be made in the state of Iowa this winter. These sows are safe in pig to Pawnee Lad, Max Dude (sweepstakes boar at Nebraska and Colorado state fairs), Big Hadley 2d and my splendid new boar, Big Ex 47717, an Expansion-bred boar. Bids sent to C. C. Carlin, field man for this paper, in care of Mr. James, will receive proper attention on sale day. Col. Harve Duncan, Auctioneer. Write for my catalog at once. Address

J. O. JAMES, BRADDYVILLE, IOWA.

JOHN B. LAWSON'S POLAND CHINA BROOD SOW SALE

40 HEAD--15 Yearling and Aged Sows--25 Gilts

CLARINDA, IOWA, THURSDAY, JANUARY 27, 1910

I AM selling 20 daughters of my great boar, Prospect, one of the greatest breeding boars today in the West. He is also bred to many of the best sows in the sale. The blood of Pawnee Lad, Jumbo, Big Prospect and other noted boars is represented in this sale. Size, with quality combined, is my motto, and I have it in the offering. Send for my catalog and then come to the sale. Address

JOHN B. LAWSON, CLARINDA, IOWA.

Col. H. S. Duncan, Auctioneer.

C. C. Carlin, Field Man.

DISPERSION SALE OF PERCHERON, FRENCH DRAFT AND SHIRE HORSES

TO BE HELD AT THE STOCK YARDS SALE PAVILION

South Omaha, Neb., Monday, January 24, 1910



IMP. BRAMHOPE FAWCETT, ONE OF THE SPLENDID STALLIONS INCLUDED IN THIS SALE

We offer all our registered Percheron and French Draft stallions and mares in this sale, as we are selling out our farm. They are a splendid lot and we believe will prove a profitable and satisfactory investment to those who buy them. In all we offer

26 Stallions and Mares,
Including our prize-winners at
the Iowa State Fair

We believe we have some of the best American-bred horses ever offered for sale. They have not been pampered in any way. The mares have been doing farm work and are only in good, ordinary condition. For that very reason they are a splendid investment for the farmer, as they will do his work and raise him a colt that will pay big interest on the investment every year. We bought good mares when we started and we know that it pays. Some years we have sold the colts for much more than the mares cost us. The stallions in this sale are an excellent lot. An excellent breeding Shire stallion is offered in Imp. Bramhope Fawcett, as his colts will show. If you want to buy a stallion you'll make no mistake in those we offer. Get a few of your neighbors to go in with you and attend our sale. You'll be able to buy right, both as to quality and price. Our sale catalog tells all about the offering. Write at once for it, mentioning The Iowa Homestead. Address

UNION WRECKING CO.,
DES MOINES, IOWA.

Col. John Duff, Auct. Assistants, Col. Gallup, J. M. Duff.

THE BROOKMONT HEREFORDS

WATCH AND WAIT FOR THE GREAT HEREFORD SALE OUR SECOND MAGNIFICENT CONSIGNMENT
ODEBOLT, IOWA, WEDNESDAY, JANUARY 26

80 Choice Cows 80 20 Young Bulls 20

This is a gem offering of females, some tried breeders and the remainder just at the beginning of their career of usefulness. All are in prime health and absolutely free from any taint of tuberculosis, having been twice tested under supervision of government experts. And no one has cattle with better blood than these cows carry. They are daughters of Sir Albany, March On, Sailor, College Militant, Choice Lad and Lord Brookmont, and their dams are evidence of the strength of their ancestral blood lines through such noted animals as March On, Imp. Southington, Thickset, Dale, Earl of Shadeland, etc. They go into the sale safe in calf to the service of Sullivan by Beauchamp, Brig. March On by March On. Fletcher by March On and Choice Lad By Sailor. The breeding of these bulls is equally as good as that of the cows.



Three of these bulls are sired by Lord Brookmont, 4 are by College Militant, 5 are by March On, 3 by Sailor, and the others are by sires worthy of equal consideration. And they are none the less valuable on account of the breeding of the dams. One is a daughter of that grand old Earl of Shadeland. Another is out of a Dale cow. Others of the dams are by Imp. Chesterfield, Sampson, and bulls of like character. These bulls show the deep, low-down, thickset type now in such popular demand, and in addition show strong breed, character, style, finish and quality. Among them are bulls to suit the more critical show man, as well as the breeder and the farmer. They are ready for immediate service, and have been so raised that they will continue to do well with ordinary farm treatment.

YOU are cordially invited to come to Brookmont on the day of this sale. You will be expected to make yourself at home and requested to inspect the great herd of cattle, the farm and the seed house, and to examine the methods of breeding and systematic farming. The sale will begin at 11 o'clock and will be held in a comfortable and well-heated pavilion. Dinner will be served prior to sale. Free transportation to and from all trains. Cols. Woods, Reppert and Teaquist, auctioneers. For catalogs address

A. E. COOK, ODEBOLT, IOWA.

SECOND ANNUAL BREEDERS' SALE OF RED POLLED CATTLE

TO BE HELD AT SALE PAVILION
SIOUX CITY, IOWA, JANUARY 19, 1910

CON-SIGNORS { **A. P. ARP, ELDRIDGE, IOWA**
FRANK J. CLOUSS, CLARE, IOWA
S. A. CONVERSE & SON, CRESCO, IA.

We are offering you as choice a lot of Red Polled cattle as ever passed through the sale ring. A large per cent of the consignment have been shown the past fall and have a great record of winnings to their credit. In breeding the offering cannot be surpassed, rich as they are in the blood of Nailer, Abbotsford, Irwin, Cremo and Logan, the most noted sires of the breed during the past ten years. It is our purpose to present these animals in good breeding condition, not excessively fat, but in useful shape. Our aim then is to put before the public in this sale the best of the Red Polled breed, believing that this opportunity of getting choice individuals will not be overlooked.

A. P. Arp's contribution to this sale consists of eight bulls and nine females; most of these are sired by Nailer or his sons. Nailer besides having a wonderful show record has proved an exceptional breeder. The first prize get of sire at the last International were Nailer calves. Here is an offering of seventeen head that for breeding cannot be beaten.

Frank J. Clouss consigns thirteen head, three bulls and ten heifers. The bulls and a part of the heifers were included in the show herd which made a circuit of 4,300 miles the past season. Space does not permit a record of their winnings, it may be obtained from the catalog. Most of this is Logan stuff, as a show bull second only to Cremo, as a sire one of the foremost producers of good calves. He sired the first prize get at the 1908 International.

S. A. Converse & Son, the old reliable breeders, offer eighteen head, a half of them bulls. No one has worked more persistently for the good of the Red Polled breed than Mr. Converse; he has a consignment which anyone would be proud of. Here is a chance to secure individuals that in breeding and merit cannot be surpassed. Products of one of the largest and most noted herds of Red Polls. Write for catalog, mentioning The Homestead, to

FRANK J. CLOUSS, CLARE, IOWA
COL. FRED REPPERT, AUCTIONEER.

BOLLMAN'S BIG HAMPSHIRE Bred Sow SALE

TO BE HELD IN THE OPERA HOUSE AT
Coal Valley, Illinois, Friday, Jan. 28, '10
75 Head Bred Sows 75

THE sale includes many State Fair prize winners, and my 1909 show herd at the International Exposition, Dexter Park, Chicago. The sale includes 6 sows by Solid Gold, champion Ill. State Fair, 1908. Among these is the great sow, Merry Widow, pronounced by good breeders and competent judges as one of the most perfect specimens of the breed. Another top liner is Hettie Green, second in class and first in herd, Ill. State Fair, 1908, while an extra good one is Bessie A. by Regulator, first at St. Louis World's Fair. The offering is the pick of my herd, and each one is a good one. They are bred to Top Round by Dr. Smith, dam by Gold Cup, she the dam of the noted show sow, Merry Widow; Ed. Raymond by Top Round, dam Malinda by Solid Gold; Blythedale George by Blythedale Duke, champion at St. Joseph, 1908, dam Prince Perfection by Get Away by Beauty; A. L. G. by Bon Bon Beauty, first at Iowa and Ill. State Fairs, 1908; King David by Gold Nugget, dam first prize by Regulator. These are the tops of 400 head. I am making this the effort of my life to put the Hampshire hog where he belongs. Write for catalog. If you cannot attend, send, mail or wire bids to Carlos C. Palmer, Homestead representative, in my care. Address

R. L. BOLLMAN, COAL VALLEY, ILLINOIS.

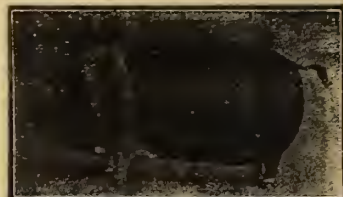
Cols. Fred Reppert, H. L. Igleheart, Geo. B. Buck, Aucts.



PUBLIC SALE OF PRIZE-WINNING HAMPSHIRE SOWS

AT MY FARM NEAR
Morrison, Ill., January 29, 1910

**50 HEAD
TOPS**



They are sired by such boars as Long John 811, champion Indiana State Fair, 1907; Legal Tender, champion Illinois State Fair, 1906-1908; Bon Bon Beauty, first-prize junior yearling boar Illinois State Fair, 1908. My winnings at Illinois State Fair, 1908, were fourteen out of sixteen classes, including seven firsts, five seconds and both championships. I will sell Maud, the reserve champion sow at Springfield, 1908, and several of her daughters and sisters. Several daughters and sisters of Beauty's Best are also cataloged. Sows are bred to high-class boars. Will sell my dapple gray Percheron stallion, Cosack 40297, weight 1,700 pounds. Send for catalog, mentioning The Homestead. Sale under cover. Parties who cannot attend can send bids to Carlos C. Palmer, Homestead field man, in my care. Auctioneers: Fred Reppert, H. L. Igleheart.

A. L. Goodenough, Morrison, Ill.

THOMPSON'S BROOD SOW SALE

AT DEZNEY'S SALE BARN

CENTRAL CITY, NEB., MONDAY, JAN. 24, 1910,
WILL CONTAIN

70 Head Poland Brood Sows and Gilts

AND will include among other choice things, Proud Giantess, the grand champion sow of Nebraska and Kansas in 1909; Famo XV., grand champion sow, Nebraska, Missouri and Kansas, 1908; 10 fall yearlings by Pan Jr., sisters to Mollie K., grand champion sow, Nebraska, Missouri and Kansas, 1907, and Colossa, first prize gilt under 6 months, Nebraska and Kansas, 1909. These sows and gilts are bred to such boars as Grand Look, a winner of 17 firsts and sweepstakes in 1906; Tom Crowder, first prize junior yearling, Kansas, 1909; Black Chief, the sire of Nebraska Mogul; Onward Chief, the 1,000-lb. grandson of Expansion, the sire of second and third prize boar pigs at Nebraska, 1909, and Perfect Pan, a son of Pan Jr. Col. Callahan, auctioneer. Fred Larkin will represent The Homestead. Catalogs are now ready and may be had upon application to

THOMPSON BROS., INDIANOLA, NEBRASKA.

DE VAUL'S HAWKEYE DUROCS

At Auction On the Farm Four Miles Northwest of
INWOOD, IOWA, THURSDAY, JAN. 27th

40 HEAD 15 aged sows and fall yearlings, balance spring gilts, sired by Robert J., Ohio Advancer, S. B. Crimson Wonder, Bon Bon 2d, Iowa Notcher, Golden Jim Jr., Jim Advance, and are bred to Robert J. and W. S. Choice by Bon Bon 2d. Among the aged sows are some of my best brood sows that I am putting in only as attractions. My gilts are of the large and roomy kind and stand well on their feet. Attend this sale and you will not be disappointed in my herd of Durocs. Free entertainment and free transportation to and from the farm from Inwood. Write for a copy of the catalog, now ready.

C. A. DE VAUL, INWOOD, IA.

Cols. C. E. Luther and H. Y. Moen, Auctioneers.

100-TWO BIG SALES OF BIG POLAND CHINA SOWS-100

8th Annual Sale on Farm Near Blockton, Iowa, January 25, 1910

J. H. WINTERMUTE and FRED ROOD will put into this sale an extra consignment of fifty of the best of great big growthy sows. Ten are matured and tried breeders, ten are fall yearlings and thirty are spring gilts. The are the get of JUMBO 81591, R.'s PAWNEE LAD 39941, DUDE'S WONDER 125269, BIG TYPE, BIG HADLEY 2d and 2d PAWNEE LAD. They will have been bred to SURPRISE TECUMSEH 13923, THOUSAND-POUND PROSPECT and old JUMBO. Every pedigree in this offering represents as much size and growthiness as can be found in any sale offering of the season. They will not be in high flesh but will be big because they carry the blood that makes them so. Our previous sales are a good promise of what buyers will find in this one. Come and see them, even if you do not want to buy. A few Short-horn cattle will also be sold. Col. H. S. Duncan, Auctioneer. Catalogs are now ready.

J. H. WINTERMUTE, BLOCKTON, Iowa

Annual Brood Sow Sale at Mt. Ayr, Iowa, January 26, 1910

T HIS lot will be made up of about fifty head. Half a dozen or more will be tried brood sows, good enough for those who want the best, a few fall yearlings and the remainder March gilts that are as good as I have ever sent forward to a sale. They are uniform in make-up and with a growthiness that must recommend them to all who want size. Most of the gilts are by 2d PAWNEE LAD 47788, a boar with size and quality that entitle him to consideration in any company. Three are by BIG HADLEY 2d, a boar whose blood lines trace to some of the best the breed has produced. Most of them are bred to GIANT JUMBO, whose pedigree runs directly to CHIEF TECUMSEH 3d, the foundation of much of the size of the breed today. He is a big fellow and as good as he is big. Col. H. S. Duncan, Auctioneer. Catalogs are now ready and tell all about it. Please mention The Homestead when writing for catalog. Address

J. A. STEPHENSON, MT. AYR, IOWA.

LIVE STOCK AUCTIONEERS.

ELWOOD J. PITTMAN

STERLING, ILLINOIS.

Fifteen years' experience selling live stock.

Write for Terms and Dates.



N. G. Kraschel
MACON, ILL.

Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.



G. C. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere. Reasonable terms. Have pleased others; can please you.

Write for Dates.



GEO. B. BUCK
SUNNY HILL, ILL.

LIVE STOCK AUCTIONEER

I AM thoroughly posted on all breeds of live stock. Breeder of Red Polled cattle and Duroc Jersey hogs. Write for terms and dates.

FRED REPPERT,

DECATUR, IND.

Live Stock Auctioneer.

Cattle Sales a Specialty

Write for Dates and Terms.



H. L. Igleheart

Glendale, Kentucky,

Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

CAREY M. JONES,
Live Stock and Real Estate Auctioneer,

2856 Washington Blvd., Chicago, Illinois.
'Phone West 1228.

If you want to buy or sell a Farm, City Property or Subdivision, no matter where located, write for terms and dates.

W. K. HENSS, WAYLAND, IA.
LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

Geo. W. Dykes Live Stock Auctioneer.
DANA, ILL.

Geo. P. Bellows AUCTIONEER
Pedigreed Live Stock
Maryville, Mo

W. D. STOLLER, Auctioneer
Live Stock a specialty. Address R. 6, Vinton, Ia.

SILAS IGO, Indianola, Iowa
Live Stock Auctioneer. Write me for date.

A. C. Manifold Auctioneer
Turkio, Mo. Pure bred sales specialty

THEO. MARTIN
Live Stock Auctioneer. Bellevue, Iowa.

S. L. HOPPER'S OFFERING DUROC JERSEY BRED SOWS NEOLA, IOWA, THURSDAY, JANUARY 20, 1910

40 HEAD---35 YEARLINGS and MATURED SOWS, 5 GILTS

FELLOW BREEDERS—I am selling the greatest lot of brood sows I have ever sent through a sale ring. There will be two daughters of Proud Advance in my sale bred to Guthrie Chief; one cracking Model Wonder yearling out of a Proud Advance dam, bred to Guthrie Chief; Harlem Belle C, the best sow Reppert says he ever sold, goes in bred to Guthrie Chief; Col's. Princess, a daughter of Prince of Cols. and Ruberta G 2d, a daughter of the sweepstakes sow, Ruberta G, both go in bred to Guthrie Chief. Also daughters of Ohio Chief I Am, Guthrie Chief, Chief's Col., McNeil's Model, Tip Top Chief and other sizes. Boys, it is by far the best offering I have ever sold and I want you all to come to my sale and see for yourself. Write for my catalog at once. Address, mentioning this paper, to

S. L. HOPPER - - NEOLA, IOWA.

Cols. F. F. Luther and Fred Reppert, Auctioneers. Bids sent to M. T. White, Homestead representative, in care of Mr. Hopper, will be properly cared for on sale day.

EVERGREEN FARM POLAND CHINA SALE

MY ANNUAL SOW SALE WILL BE HELD AT

REMSEN, IOWA, TUESDAY, JANUARY 25, 1910

I WILL sell 50 head of bred sows. Ten are fall sows by Dorr's Hadley by Big Hadley and King Dodo by Expansion. The 40 gilts are by Evergreen Model by Big Hadley, Royal Dude by Max Dude, the Nebraska sweepstakes hog, and Longfellow by Longfellow 2d. They are bred to Dorr's Expansion by old Expansion, Pawnee Lad 2d by Pawnee Lad, Big Price by Dry Creek Chief and Exception by Varsity Expansion. This is a very uniform bunch, with as much size as usual; good length, plenty of bone, good color and right up on their toes. Sale will be held on the farm, six miles southwest of Mareus. Parties coming by train will stop at Mareus. Col. J. A. Benson, auctioneer. C. W. Dorr, clerk. For catalogs address **Henry Dorr, Remsen, Ia.**

LIVE STOCK AUCTIONEERS.

The National Auctioneering School of America

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Ayrshire Cattle

YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. Fred Tschudy & Sons, Monroe, Wis.

When writing please mention this paper.

GUERNSEY CATTLE.

SUNNY VALLEY GUERNSEYS

HERD headed by Lord Wankesha 1048 and Eva-lin's Yeksa 10232, two of Wisconsin's noted bulls. Herd numbers 50 head. Some very choice young bulls for sale. Herd tuberculin tested.

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BONNY BOY GUERNSEYS

I have a few young bulls for sale at this time. They are from some of my best milking dams. Address,
RALPH TRATT, WHITEWATER, WIS.

GUERNSEY CHAMPION FOR SALE

THE two-year-old bull, Gratify, first prize winner at Iowa, Seattle and the Fourth National Dairy Show, and second at Minnesota and Wisconsin in 1909, and junior champion at Wisconsin in 1908 as a yearling. He is an excellent individual and should head a good herd of Guernseys.

Fox Bros., Waukesha, Wis.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Straford 9386, a son of Straford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls.

Ben Clark & Son, R. 1, Whitewater, Wis.

GUERNSEYS

FOR SALE—I am overstocked and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

BROOK HILL FARM Pure-Bred Guernseys

FOR SALE Bulls from three to fifteen months of age. Dams have made from four to seven hundred pounds of butter in one year, official test. Send for sale list.

David W. Williams, Supt.,
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JERSEY CATTLE.

JERSEYS

CREAMERY patrons who wish to grade up their herds for better results should buy a Jersey bull calf from a dairy herd located in a country where dairying is a specialty.

\$50 Does the Trick.

SUNNY PEAK FARM,
ELM GROVE, WISCONSIN.

King Sappho King Jerseys

WE offer a few mature cows for breeding purposes, a few young cows and heifers and a magnificent lot of young bulls sired by King Sappho King 65262 and Loretta D's Champion Son 77002.

J. Q. Emery & Son, Edgerton, Wisconsin.

VALLEY FARM

IS offering a few yearling bulls, sired by Blue Bell's Emblem 7474. Also a few bull calves. These are a fine bunch and will be sold cheap. For particulars, write Fred Stibley, Black Earth, Wis.

Wineland Farm Jerseys

OUR cattle are of the richest breeding and are bred for money makers as milk and butter fat producers. See us or write. Address

H. C. Young, Lincoln, Neb. (On street car line)

GOLDEN MODEL II.

BRED SOW SALE TO BE HELD AT MELBOURNE, IOWA, MONDAY, JANUARY 17, 1910

40 HEAD---INCLUDING SHOW WINNERS OF 1909. 15 YEARLINGS AND AGED SOWS, 25 GILTS---40 HEAD

The offering is bred to Golden Model II., second-prize aged boar, Iowa State Fair, 1909; first-prize aged boar, Nebraska State Fair, 1909; first and champion, Sioux City, 1909, and Protection Colonel, first-prize senior yearling boar, Iowa, Nebraska and Interstate Fairs, 1909. The get of the following noted boars is included in sale: Golden Model II., Inventor, Red Wonder, Golden Model, Lincoln Wonder, H. A.'s Choice Goods, Savannah Belle Chief, Kelly's Pilot Wonder, Phallas Model, Proud Advance Jr. and Keep On II. The strongest lot of sows bred to boars of rich blood lines and individual merit that will be sold this year. Bids sent to Mr. M. T. White, Homestead representative, will be properly cared for. Write for catalog, mentioning The Homestead, to

WALTEMEYER BROS., COL. F. LUTHER, AUCTIONEER. **MELBOURNE, IOWA.**

GATES' Duroc Jersey Dispersion

ON THE FARM 1 1/2 MILES SOUTHWEST OF Sheldon, Iowa, Thursday, Jan. 20, 1910

40 HEAD in the sale; 8 tried sows and 32 gilts. The aged sows are daughters of Notcher's Model, Royal Triumph, Jumbo Giant and Star Marshal. 32 gilts are daughters of Longfellow, Sioux Chief, Bon Bon 2d, Royal Triumph, Custer's Top Notcher. They are bred to Longfellow and to Emperor Weiser by Budweiser. The Short-horn herd bull, Gay Champion, by Imp. Gay Lothario, dam Mina Lass 12th, is also included in the sale. Free entertainment at the Howard hotel for visiting breeders, and free transportation to and from the farm.

J. O. GATES, SHELDON, IOWA. Col. Frank Meyers, Sheldon, Iowa, } Aucls. E. T. Parker, Col. F. O. Cabbage, Battle Creek, Iowa, } Field Man.

Schug's Big Poland Chinas

AT PUBLIC AUCTION

COLERIDGE, NEB., SATURDAY, JANUARY 22, 1910

45 HEAD Included in the sale. Nine of them are tried sows that have always farrowed and raised large litters; 5 choice fall gilts and 31 growthy spring gilts of early farrow. The fall and spring gilts were sired by Monarch Chief and Hadley's Surprise. The sows were sired by such well known big boars as Miller's Tecumseh, Jewel Leader, King Sunshine (the sweepstakes boar), Long Chief and the great Dry Creek Chief. They are bred to Hadley's Surprise, Billy Victor, Chief Nelson, Big Dude and Chief Monarch. These aged sows will weigh close up to the 700-lb. mark, and the gilts close to 350 pounds; a few may go beyond. Free entertainment to visiting breeders. Parties wishing to leave over the Burlington will be taken to Belden free of charge. Catalogs now ready; write for a copy. Come here for your big ones that are good.

ROBT. A. SCHUG, COLERIDGE, NEBRASKA. Col. H. S. Duncan, Auctioneer, E. T. Parker, Field Man.

Poland Chinas and Aberdeen Angus

IN A COMBINATION SALE AT

Elwell, Iowa, Thursday, Jan. 20th

The thirty-five head of Poland China sows are from the herds of J. O. Thompson and S. H. Coughenour. Half of them are yearlings and tried brood sows. The other half are spring gilts that, from start to finish, will have no equals in any sale ring of the season. They are full of the blood of Chief Tecumseh 3d and other sires of note because of their size and quality. They are show sows. Most of them are by Satisfaction 3d 134815, and bred to Longfellow Prospect by Big Prospect and out of a sow strong in the blood of Chief Tecumseh 3d. The consignment of cattle includes a three-year-old herd bull, son of Prince Ito 2d, five bull calves, two heifers, and seven breeding cows, one with calf at foot, and nearly all safe in calf. All are recorded. Be sure to send for a catalog and see what a grand lot of breeding we sell. H. S. Duncan, auctioneer. Sale eighty rods from depot at Elwell. Trains met at Cambridge.

J. O. THOMPSON, CAMBRIDGE, IOWA

HOLSTEIN-FRIESIAN CATTLE.

HIGH GRADE HOLSTEINS

Cows or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want. RIVERSIDE STOCK YARDS, ALGONQUIN, ILL.

Registered Holsteins (Established 1876)

THE two greatest sires of the breed, Paul Beets DeKol and Hengerveld DeKol have more sons and daughters in this herd than any herd in the world. Plenty of stock for sale. R. E. HAEGER, ALGONQUIN, ILLINOIS.

Rock Brook HOLSTEINS

All females cataloged for my Fourth Annual Sale at South Omaha, Feb. 8-9, 1910. A few bulls and bull calves at private treaty. Send for my catalog of 125 head to be sold in sale. HENRY C. GLISSMAN, Station B, OMAHA, NEBRASKA.

HOLSTEIN MAPLE LANE Holsteins

HEIFERS-COWS-BULLS. Anything you want and at popular prices. W. R. Gates, Fort Atkinson, Wisconsin. MALES and females for sale. Herd numbers eighty head. Tuberculin tested. We guarantee our stock. T. J. BARMORE, Monroe, Wis.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Dounhoe, of Holbrook, Iowa, and P. Leuby, of Parnell, Iowa. 200 head of choice Dobbies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

ABERDEEN ANGUS BULLS

I have a number of high-class young bulls for sale of the Blackcap, Blackbird, Trojan Erica and other famous strains. Address H. L. CANTINE, QUIMBY, IOWA.

ANGUS BULLS, COWS AND HEIFERS 8 BULLS for sale, some of them 2 years old. They are sired by top bulls and out of one of the best cow herds in the state. I have 1,800-lb. cows as good as can be found. All the leading families represented. Call or write A. G. Messer, Grundy Center, Ia.

Angus Bulls For Sale

WE are offering a splendid young Blackbird bull for sale; also one Jilt, one Pride and one Sybil. These are choice and we are pricing them right. Address Isenbarger Bros., Battle Creek, Ia.

ALFALFA HERD ABERDEEN ANGUS

Ericas, Blackbirds, Prides, Queen Mothers or sale. Harrison & Harrison, Indianola, Neb.

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INVERNESS ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, IOWA CITY, IOWA

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thickset Blackbird. 10 young bulls by Glenfold Thickset, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thickset, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Herdsman.

ABERDEEN Angus bulls for sale. We have as fine a lot of young bulls for sale, from 1 to 2 years old, as can be found anywhere. All of the fashionable families, and can suit the most particular buyer or anyone wanting a good bull at a reasonable price. Located 17 miles east of Des Moines on C. R. 1 & P. and I. C. Rys. R. Wilkinson & Sons, Mitchellville, Ia.

POLLED DURHAM CATTLE.

Clovermead Polled Durhams for sale. A few bull calves, cows and heifers; quality and prices right. Wm. Barrans, Lenox, Iowa.

HOLSTEIN-FRIESIAN CATTLE.

20 HOLSTEIN BULLS

From two weeks to eight months old. Fashionable breeding, large milking dams. Sir Netherland Cornucopia, whose two nearest dams average thirty pounds butter, and six nearest dams twenty-five pounds in seven days at head of herd. Prices moderate. Send for sale list.

WOODLAWN FARM, STERLING, ILL.

MONONA FARM HERD

(P) Pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis. E. W. ALLIS, MADISON, WISCONSIN.

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HOLSTEIN-FRIESIAN CATTLE.

HOLSTEIN BULLS

TWENTY sons of Reka Ormsby Duke for sale. This splendid sire is a grand son of Homestead Jr. De Kol and Duchess Ormsby and therefore combines blood of the two greatest families in the breed.

Albert Babler, Jr., Monticello, Wis.

HOLSTEINS

LAKE MILLS, WISCONSIN

100 HEAD to select from, bred from the leading strains. Parties wanting bulls or females to improve their herds, write us, we can supply you. High-grades in car lots picked up on short notice.

WM. EVERSON & SONS

Holstein-Friesian Bulls

WE have bulls of serviceable age and bull calves for sale; fine individuals, well bred and well grown. Their dams are all heavy producers. JESSE R. ELLIOTT, WOODWARD, IOWA

When writing to advertisers please mention this paper.

CLOSING-OUT SALE SHORT-HORNS and POLAND CHINAS

AT FARM THREE AND ONE-HALF MILES N. E.
COUNCIL BLUFFS, IOWA, JAN. 19-20, '10

THE offering of Short-horns which we will present on January 19th will consist of 36 head, 9 bulls and 27 females. A lot of useful, breedy, dual-purpose females; a business lot in every sense, and a very vigorous, sappy lot of bulls, among them a couple of great prospects. They represent such good Scotch families as Sybil, Butterfly, Secret, Victoria, Violet, Orange Blossom, and such noted American sorts as Young Mary, Flora, Rosemary, Ianthe, Adelaide and Mrs. Motte. All females of breeding age are bred to the grand Scotch bulls, Imp. Magenta and Butterfly Magenta. A couple Double Standard cows are included. **Big Polands on January 20th.** 30 head; 20 gilts, 5 tried sows and 5 yearlings, every one immune. The gilts are sired by Expansion Jr., Nebraska champion, 1902, and Iowa Prospect, a son of Oakland's Prospect, and are bred to an outstanding young boar, Owen's Model, he a grandson of Mischief Maker's Best and Guy's Price 2d. All the tried sows are bred to Expansion Jr. by Expansion. The herd boars, Exp. Jr. and Owen's Model, also sell. Big bone, prolificacy, size and early maturity. Send bids to Fred Larkin, representing The Homestead. Cols. J. West Jones, I. W. Holman, A. G. Stageman, W. H. Dutrow, auctioneers. Send for catalog now ready, to

G. L. PROUTY, COUNCIL BLUFFS, IOWA.

DISPERSION SALE SCOTCH AND SCOTCH TOPPED SHORT-HORNS

SOUTH OMAHA, NEBRASKA
THURSDAY, JANUARY 20, 1910

50 Head ¹² BULLS ³⁸ FEMALES 50

EVERY bull is a SCOTCH BULL and there will be TWENTY SCOTCH FEMALES in the sale, including three daughters of the champion cow, Lovely 30th. The Scotch families represented are Cruickshank SECRET, LOVELY, MISS RAMSDEN and MISSIE. A large per cent of the females have calves at foot. Send for catalog at once, mentioning The Homestead. Address

H. R. RYAN, Sioux City, Iowa

Col. Geo. P. Bellows, Auctioneer.

RED POLLED CATTLE.

Bulls Bulls Bulls

Seven half-brothers to MIDNIGHT, champion bull at three leading state fairs, 1909. These bulls are a handsome lot and priced worth the money. Write for descriptions and prices to

Dan Clark Stock Farm, Cedar Falls, Ia.

Wiles' RED POLLS

CHIEF STOCK BULL—CLOSSON 13280. For sale—Several good bulls and females from very fine milking families and great fleshers. Prices right. Call on or address

LUKE L. WILES - PLATTSBURGH, NEB.

SEAMAN'S Red Polled Cattle, 50 h'd, the equal of any ever sold in Ia. 7 yrlg. and 2-yr.-old bulls, 40 to 50 cows and heifers of the greatest milking families known to the breed. Part of the old W. H. Seaman herd, Davenport, Ia. Visitors can be shown 125 head of as good Red Polls as can be found in U.S. Gus C. Scaman, R. 5, Davenport, Ia. Telephone to farm.

SPECIAL OFFERING OF RED POLLS

NINE young bulls sired by Ben 14395 for sale. Ten N heifers sired by Jerome 10505 and bred to Roger 18655, priced right. My herd is noted for heavy milking qualities. Write for full information concerning herd. Carl H. Van Evera, Davenport, Iowa.

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

SHORT-HORN CATTLE.

Scotch and Scotch-Topped Short-horn Cattle
IMPORTED JERSEY CATTLE

Imported Percheron and Clydesdale Horses

IMPORTED and fashionably bred Short-horns, headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited. White Bros., Centerville, Ia.

MILKING SHORT-HORNS

BATES bred yearling bulls from tested dams. Bred heifers and heifer calves. All cattle tested; guaranteed breeders and pedigrees furnished. Blackmer & Nelson, Albert Lea, Minnesota. Farms one and two miles from town.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

When writing to advertisers please mention this paper.

SHORT-HORN CATTLE.

WAYSIDE FARM SHORT-HORNS

TALK NO. 1

All my bulls have been reserved for my sale, February 17, 1910. I am selling five bulls that weigh from 1,400 to 1,800 pounds, six that weigh from 800 to 1,100 pounds, and a prominent Iowa stockman, whose name will be sent on request, said they were the best lot of bulls he had seen offered in Iowa in one sale of one man's breeding in fifteen years, and they are all Scotch. Catalogs are now ready. Write to me about some specialties I have for you to think over.

G. H. BURGE
MT. VERNON, IOWA.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Ghost's Favorite, head the herd. Write me.

Plain View Stock Farm

6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties interested who notify me. Address GEO. A. HANS, - NEWTON, IOWA.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Wm. M. Smith & Sons, West Branch, Iowa.

3 Pure Scotch bulls for sale; 12 to 16 months old; 3 all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490, a red four-year-old, by the great March Knight. T. A. Davenport, Belmond, Ia.

SHORT-HORN CATTLE.

We Want Registered Bulls

SHORT-HORN, HEREFORD, GALLOWAY and ANGUS cattle sold on commission. We need bulls at once to fill our orders. Write us immediately and consign your bulls to us at once. Address A. J. BRAGONIER & SON, SOUTH OMAHA, NEBRASKA.

Choice Short-horns at Bargain Prices

CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fame 197980, and bred to my Cruickshank Flora bull, Narcissus King 239586. One extra good bull 16 months old by Royal Fame; 14 younger bulls, mostly by Narcissus King. A choice lot to select from at bargain prices; singly or car load. Address R. J. COX, GRINNELL, IOWA.

S. H. Thompson's Sons IOWA CITY, IOWA.

WE will sell 15 head Scotch Short-horns in conjunction with Messrs. Smith & Barnhart, at West Liberty, Iowa, Jan. 5, 1910. Have a splendid lot of Scotch bulls of most fashionable families, at private sale. Write for descriptions and prices.

WILDWOOD SHORT-HORNS

2 SCOTCH and 2 Scotch Topped bulls, 12 to 16 months old for sale. Also the grand breeding bull, Headlight, by Imp. Red Knight, dam Imp. Strawberry 6th. All are growthy bulls with much natural flesh and they will be priced right. Visitors always welcome. Address W. W. VAUGHN - MARION, IOWA.

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns. HERD headed by Humpton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address GEO. H. WHITE, EMERSON, IOWA.

Springdale Stock Farm

OFFERS 10 Short-horn bulls by Bar None and Julius Victoria; also a few fine cows and heifers. We guarantee everything we ship. Write, or visit W. J. Hather - Ord, Nebraska.

Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all reds; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live-and-let-live prices. R. M. Young, Cook, Johnson Co., Nebraska.

SCOTCH BULLS

I have for sale several richly bred and splendid individual bulls, reds and roans. The herd is headed by the Scotch bulls, Ringmaster and Choice Prince. Nine straight Scotch bulls, two Scotch topped, now ready for service. Farm adjoins town. Address G. H. GEORGE - MONTICELLO, IOWA

BATES BULLS

SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address J. M. HEALY, BEDFORD, IOWA.

35 SCOTCH SHORT-HORN BULLS

FOR SALE—From one to two years old, of the blocky, beefy type; herd headers also. 25 heifers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address

I. BARR & SON, DAVENPORT, IOWA.

LEAVING THE FARM

OUR farm manager, having been with us fifteen years will leave March 1st, so we are obliged to sell our entire herd of registered Short-horns. We have used sires of Golden Rule, the great H. F. Brown bull, Imported Matabile Chief, \$3,000 sire, March Knight, owned by N. F. Clark, another Imported Craibstone Victor. This herd numbers about sixty head and will be sold for one half the actual cost, at private sale. A rare opportunity for someone to own one of the choicest lots in Wisconsin. Address D. C. Coolidge, Downing, Wis.

Phillip Funke, Greenfield, Ia.

BREEDER OF

Scotch and Scotch-Topped Short-horns

I am offering a splendid lot of Scotch bulls for sale of Orange Blossom, Dainty Dame, Fleur de Lis, Mina and Strowan But-tercup tribes. I am pricing these bulls right. Write or come and see me.

HEREFORD CATTLE.

Polled HEREFORDS

THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

J. W. WYANT, BLTTHEDALE, MISSOURI

B. W. GREGORY, HARLAN, IA.

Breeder of HEREFORD Cattle. I have a few choice young bulls for sale at private treaty. Write, or come and see me.

BARDWELL & BARNARD, McHENRY, KY.

DUROC JERSEY

Bred Sow Sale

LOUISVILLE, KY., JAN. 20, 1910

**At Louisville Transfer Co.'s Annex Barn,
JEFFERSON STREET, BETWEEN EIGHTH AND NINTH.**

Will Sell 40 Sows

Bred to Model Top, King Wonder and Model King of Cols. Sows sired by Prince of Cols., Perfect Col., Prince Wonder, Model Chief Advancer, High Notcher, Chief's Col., Orion Chief, Macon Chief, King of Cols., Model Top, Chief Success, Muncie Chief and other noted boars.

Special Attractions: Miss Orion by Orion Chief, grand champion sow at Ohio, Indiana, Kentucky and Tennessee State Fairs, 1909. Phillis by Macon Chief, junior champion sow, Ohio State Fair; second at Indiana, Kentucky and Tennessee State Fairs, 1909. Proud Maid by Proud Advance, fourth at Ohio, second at Kentucky and first at Tennessee State Fairs, 1909. Col's Variety by King of Cols, full sister to Col. S. The Chief's Daughter by The Chief, dam by King of Cols.

Send bids to Carlos C. Palmer, Homestead field man, in our care, at Willard Hotel, Louisville, Ky., after January 15th. Breeders from a distance will be entertained at Willard Hotel at our expense day of sale. Write for catalog, kindly mentioning The Homestead.

BARDWELL & BARNARD, McHENRY, KY.

Cols. H. L. Igleheart, Fred Reppert and Nelson Kraschel, Aucts.

ADDY & SON'S
DUROCS

**IN DISPERSION AT
Parnell, Mo., Monday, Jan. 24th**

60 Head--W. L. A.'s Choice Goods, 20 of his daughters; 30 head bred to him **60**

C RIMSON CHIEF, one of the few living sons of old Crimson Wonder, also sells. Some grand, good sows are by him and a number are bred to him. Also see his yearling son. Belle of the Iowa Banner Herd, her daughter by Proud Advance and her daughter by Dandy Orion; Lady Orion Dandelion by Proud Advance; one daughter of Crimson Wonder Again; one daughter of Nebraska Belle's Ohio Chief; Bethany Bird by Model Chief II.; two yearling daughters of Valley Chief; three daughters of Crimson Chief; Ohio Lady, a line-bred Protection, and four daughters of Chief's Col. are sows we would not sell were we retaining any. The balance are by our present herd boars. We have never made such an offering and would not now had we not sold our farm. You get the benefit of our twenty years' efforts at your price. Cols. Luther and Zaun, Auctioneers. A. T. Cole, representing this paper. Send for our catalog.

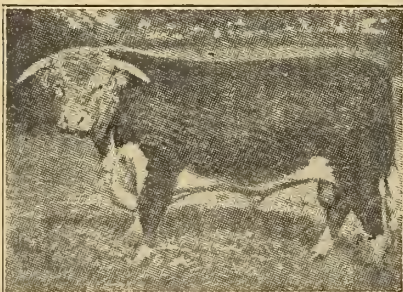
W. L. Addy & Son, Parnell, Mo.

HEREFORD CATTLE.

**FIVE YEARLING AND TWO-YEAR-OLD
HEREFORD BULLS**

FOR SALE

These bulls are intensely bred in Anxiety 4th, Corrector Dale and Earl of Shadeland 41st blood lines. They will be sold at bargain prices for this quality of cattle. Come and see us at the farm at Ryan, Ia. **CARROTHERS BROS., RYAN, IOWA.** Just try us once. MENTION THE HOMESTEAD.



Polled Herefords

We offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.

Warren Gammon & Son, Des Moines, Iowa. Originators of Polled Herefords.

WHEELER'S TABLE-BACK HEREFORDS

25 Bulls and 25 cows and heifers. I have sold my farm and they must be sold. You can buy them at beef prices. Do not wait to write. Take the first train to Harlan, W. W. Wheeler & Son, Harlan, Ia.

**High-Class Hereford Bulls
FOR SALE**

A FEW good two-year-old Hereford bulls, 20 yearling bulls or under. The two-year-old bulls all sired by Perfection Yet, a bull exported to South America. Herd headed by Improver's Hesiod 107727 and British Captain 283967, a son of Imp. Britisher, out of an Anxiety Monarch dam. 100 head in herd. **D. S. O'Leary, Prop., Iowa City, Iowa.**

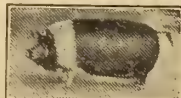
15 HEREFORD BULLS

FOR SALE, from 12 to 30 months old, sired by Advance 129531 and McKinley 95219. Address **Z. T. KINSELL - - MT. Ayr, Iowa.**

HAMPSHIRE SWINE.

STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, **E. C. STONE, - - ARMSTRONG, ILL.**



HAMPSHIRE SWINE

Stock of all ages for sale and of fashionable families. Write **CEO. LIPPERT** Magnolia, Illinois



**25 Head of Spring Boars
5 Head of Yearling Boars**

All good ones and guaranteed breeders. Prices reasonable. **D. DeKALB - - DeKALB, IOWA.**

We Have for Sale

Spring boars ready for service, sows either bred or open, young pigs in pairs or trios no kin, a fine bunch of gilts either bred for spring or open; prices reasonable. Write us before you buy.

L. C. MILLER & SON, R. 2, Canton, Illinois.

HAMPSHIRE GILTS

TEN good gilts with length and bone, bred to the best of boars, for March and April farrow, for sale worth the money. Address **WOOD & WESCOTT, SHEFFIELD, ILL.**

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE

My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. Nothing for sale at private treaty. 50 bred sows will be sold in my sale January 29, 1910. Write for prices.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**



WAYSIDE HAMPSHIRE

WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead.

MIKE SHARP - - - - - COAL VALLEY, ILL.

BERKSHIRE SWINE.

**PRINE FARM
BERKSHIRES**

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address

George S. Prine, Oskaloosa, Iowa

PREMIER BELLE'S DUKE

Is the sire of many of the offering to be sold at public sale February 21, 1910. They are bred to Baron Duke 154th by Baron Premier 40th. Write for catalog.

J. W. OGLE, AMES, IOWA.

HOLT'S PRIZE-WINNING BERKSHIRES

THE records of leading state fairs show the superiority of my stock. Am pricing the tops of my boar crop by Matchless Premier and Governor, by a son of Imp. Lord Minting. Write for prices. Bred sow sale in February. **W. R. Holt, Falls City, Neb.**

Choice Berkshires for Sale

LUSTRE'S Combination J. 2d, prize boar at Iowa State Fair, and gilts sired by him, open or bred; also two tried brood sows at reasonable prices **Orlando Jacobs - - - - - Medinapolis, Iowa.**

When writing to advertisers please mention this paper.

POLAND CHINA SWINE.

**Oaksdale Herd of "Monster Pattern"
Poland Chinas**

Herd headed by Monster Pattern (weight 360 pounds at seven and one-half months old, 800 pounds yearling, eleven-inch bone), Oaksdale Chief (750 pounds yearling, 900 pounds at maturity) and K. O. P. Ideal (size, quality and eleven-inch bone). Herd Sows large and prolific. The blood of Chief Tecumseh 3d, One Price, Blain's Tecumseh, Keep On and Chief Perfection 2d. Open and bred sows for sale at very close prices. Special low prices for quick sales. Ask for catalog and get posted. There is a "tip" in it for every prospective buyer. Direct shipping facilities. Address

A. S. JUCKETT & SON, Oakside Farm, R. 2, Fremont, Neb.

**FOR SALE
6 Tried Sows**

BRED to large-type boars, Maid's Longfellow and King Leader. 20 fall pigs, either sex, for sale at \$18 to \$20. Sired by Maid's Longfellow and Choice Chief Price. Address

H. W. Miller, R. 2, Peterson, Iowa.

BIG VICTOR SOW SALE FEBRUARY 4

I WILL sell 45 head of big-boned, big-type Poland China sows in my February 4th sale, bred to Big Victor, Guy's Price 2d and Big Tom. Write me early for catalog. Address, mentioning this paper. **D. C. LOSERGAN - - FLORENCE, NEB.**

PUBLIC SALE OF DUROC JERSEYS

AT HENRY, ILL., MONDAY, JAN. 24, 1910

50 BRED SOWS 50

Good enough for any breeder. All the up-to-date families represented.

We have been breeding Durocs for over twenty-five years and think we can safely say this is the best offering in both individual merit and breeding that has ever come from our herd. And we feel warranted in saying that no better nor more useful lot of hogs will be offered at public auction this season. Neither will you find thicker-fleshed Durocs with better feeding qualities, and they get their easy-feeding qualities by inheritance. The intending purchaser will find it difficult to find a herd of equal number where he could be more satisfactorily fitted out with a foundation for embarking or advancing in the breeding of this practical "farmer's hog." The great breeding boar, Col. Stoner, by King of Cols., is one of his best sons, and as his pigs will show, he is going to make his mark as a sire. Several other boars of more than ordinary merit and breeding are used in this herd. The sows are of the best blood of the breed, being of the Colonel, Protection, Advance, Orion, Top Notcher, Wonder and Kant Be Beat families. If you are looking for Durocs of the best individuality and breeding—the profitable sort, the kind that look well and do well—you will not be disappointed in the offering January 24th. They include tops that have been especially retained for this sale. Sale will be held in Henry. You are cordially invited to attend. Write for catalog, mentioning The Homestead. Send bids to Carlos C. Palmer, Homestead field man, in our care. Auctioneers: Cols. Fred Reppert, Nelson Kraschel, C. C. Sawyer.

T. W. STONER & SON, HENRY, ILLINOIS.

POLAND CHINA SWINE.

FIFTY LARGE-TYPE, BIG-BONED BRED SOWS 25 EXTRA GOOD BOARS

TRIED sows, fall yearlings and spring gilts, sired by P. W. Giant, Hadley, Jumbo and Long King. Bred for March, April and May farrow to Hadley, Jumbo and Victor. Last named boar sired by Big Victor, second aged boar at Lincoln, 1909. They are smooth and well grown and in fine condition. Sold 900 head in seven years; shipped to eight states, many on mail order, with perfect satisfaction to buyers. Can furnish testimonials from all buyers. My herd boars are the tops of the best herds of the big type. Farm 1½ miles north of town. Pedigrees time of sale. Write name and address plainly to F. W. McINTYRE, Route 5, RED OAK, IOWA.



WELLMAN HERD OF POLAND CHINA HOGS AND SHORT-HORN CATTLE.

25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd leaders a specialty. 10 head of choice young bulls, 8 to 15 months old; all deep reds; sired by Masterlook 265763, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address C. F. SIAFFER, R. R. 4, WELLMAN, IOWA.

Miller's Tecumseh 117017

1,000-Pound Boar heads my herd. I have a grand good lot of spring boars sired by him, also by fellows, write me or come and inspect my herd. Address H. PRITCHARD, WISNER, NEB.

50 Big-Type, Big-Boned Bred Sows

WE are offering 50 head of extra fine, big-type, big-boned, quality kind. These are sired by our invincible trio of big boars, viz.—W. S. Major, 45237, Young Look 47722, Pawnee Price 47721, and bred to above-named boars and a grandson of Grand Look and Expansion. Twenty-one sows farrowed 210 pigs in 1909. For size, quality and prolificacy, these cannot be beaten. Guaranteed as described. Priced right. Call or write. WILLIAMS BROS., Route 3, VILLISCA, IOWA.

PODENDORF'S BIG-TYPE

Poland China Bred Sows

I AM offering a splendid lot of strictly big-type, with quality combined, Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.

A. J. PODENDORF, LOGAN, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. HEDD BROS., HINTON, IOWA.

POLAND CHINAS

FORTY BRED SOWS—BIG TYPE
BIG-TYPE Polands with big-type blood lines sired by Napoleon Chief 84169 and bred to Corn Belt Expansion 153155 for March and April farrow. Write for prices and des. C. K. Hanson, Nashua, Ia.

Poland China Bred Sows

WE have for sale some choice, tried, aged sows, bred for March and April farrow; also 25 growthy last March gilts, sired by several different herd boars, bred for March farrow. Write for description and prices. Bridgford & Nesbitt, R. 3, Aledo, Ill.

20 Head of Bred Gilts

OF the big type, bred to Big Price 154369, one of the good big ones. A Chief Price bred hog, with size and quality galore. Prices right. SCHAIN & KEEP, ATLANTIC, IOWA.

10--POLAND CHINA FALL BOARS--10

JULY, August and September farrow; 60 to 125 lbs., sired by Max Dnde (winner of first and sweepstakes at Nebraska in 1908) out of Big King and Pawnee Lad sows. Choice \$15 for next thirty days. L. R. McCLARNON, BRADYVILLE, IA.

DUROC JERSEY BRED SOW SALE

TO BE HELD AT

McNabb, Ill., Tuesday, Jan. 25

50-HEAD-50

Fifteen Bred to THE PROFESSOR by Ohio Chief

THE get of The Professor won seven firsts, five seconds and one third at the last Illinois State Fair. One bred to Kant Be and balance bred to Col. Casey by Perfect Col. The offering includes three yearlings by Prince Wonder, two by Inventor, one by Model Wonder, one by S. & M.'s Proud Chief, eight gilts by Chief's Col., seven by The Professor, three by Inventor, three by Perfect Col., one by High Notcher, three by Macon Chief, one by Model Wonder and three by Kant Be. Write for catalog, mentioning The Homestead. Carlos C. Palmer, Homestead field man. Cols. H. L. Igleheart and Fred Reppert, Auctioneers.

ADDRESS EITHER

**HENRY MATERN, LOSTANT, ILLINOIS,
or J. B. STANSELL, Magnolia, Illinois.**

POLAND CHINA SWINE.

POLAND CHINA BOARS

Ten choice boars weighing 150 to 200 pounds each, sired by MEDDLER U. S. and CHALLENGER. Every one a good one. None better bred. Prices reasonable. Write soon if you want one.

**J. L. SLICK & SON
LANARK, ILLINOIS.**

ELLERBROEK'S POLAND CHINAS

50 Bred spring and fall gilts of the large-boned, lengthy type. These gilts are bred to Giant 2d 151933, A Wonder 143421, Big Bone 2d 151743. Their sires are A Wonder Next 149557, A Wonder 143421, Long Price 2d 146679, and others. Their dams are by Chief Price, Longfellow 3d, A Wonder 107353, etc. Come and see my stock or let me know your wants. Farm adjoining 3 railroads, 2 blocks from depot.

PETER ELLERBROEK, SHELTON, IOWA.

SELECT BRED SOW SALE

FEBRUARY 10, 1910.

BIG-TYPE Polands, with big-type blood lines. 20 tried sows, the largest and most noted of the breed. 40 big gilts, the progeny of the largest Poland boars and sows in the world. Bred to boars of equal merit, such as Big Ex., the 1,070-pound son of Pawnee Chief; Chief Price, the 800-pound yearling; Superior Look, the most noted son of Long Look. Send your address early for the catalog. W. H. COOPER - HEDRICK, IOWA.

BIG 4 POLAND CHINA BOARS

BIG type, big litter, big bone, big quality. If you want one of that kind, come or write. Also Scotch herd bull for sale.

M. P. Hancher - - - Rolfe, Iowa.

CHESTER WHITE SWINE.

CHAMPION CHESTER WHITE SWINE

Write me for choice stock of either sex for breeding stock, and show stock, a specialty.

F. P. WHITE, NEW HAMPTON, IOWA.

Vanderslice's Chester Whites

OUR show records stand unsurpassed. We have 20 gilts, March and April farrow, sired by All O. K. 12065 and Lincoln 12443 and bred to Tony Kerr. Get our price on your wants. 12 miles south-east of Lincoln. Vanderslice Bros., Cheney, Neb.

CHESTER WHITE SWINE.

Mear's Chester Whites

4 fall boars and a great string of pigs by

NEPONSET ED. 16711

Are ready to ship any day. All are strictly high-class. Write or come.

E. L. MEAR, LAMAR, MO.

AMERICAN HERD OF IMPROVED CHESTER WHITES

Thirty choice spring gilts for sale, bred to Attractor 19289, a boar of extra length and bone, for March and April farrow. Call and inspect them or write for prices and descriptions.

ALDEN ANDERSON, RADCLIFFE, IOWA.

BROOD SOWS—Reserving nothing but the aged

sows; will let go best stuff I have raised. Bred to such boars as Joker, that has won more premiums than any hog living or dead. A "Triumph" hog that sold for the largest price of any hog of the breed. Weighed at 19 months, 720 lbs., and two extra good young hogs. J. H. Mahannah, North English, Iowa.

Evergreen Herd Chester Whites

A CHOICE lot of gilts now on hand. The best I have ever raised. My prices are always reasonable. Write me at once. Address

W. H. DUNBAR - JEFFERSON, IOWA.

CHESTER WHITES

FALL yearlings and early spring boars all sold! Write for prices and description of boars farrowed in May, 1909. Also gilts bred to farrow in April and May, 1910. Isaac Arnold, Leland, Illinois.

INTERNATIONAL HERD OF CHESTER WHITES

BOARS all sold. Have a fine lot of yearlings and gilts safe in pig to as good boars as money can buy. Anything you want sent on approval.

J. L. BARBER, R. 3, HARLAN, IOWA.

I PAY EXPRESS

CHARGES and ship C. O. D. Choice Chester White bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

CHESTER Whites. Gilts and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa.

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

MEHRING choice O. I. C., strong-boned, smooth, well-quartered gilts for sale; some fine Shropshire ewes; low price. H. C. Mehring, Manson, Ia.

PLATTENBERGER'S ANNUAL BRED SOW SALE AT MT. VERNON, IOWA, ON TUESDAY, JAN. 18, 1910 50 HEAD OF RICHLY-BRED Duroc Jerseys

I HAVE selected the tops of my entire herd of big-boned, growthy Durocs for this sale. They are sired by Lafollette 2d, Model Chief 2d, A. L.'s Chief, A Top Notcher and others of note. They are bred to I Am A Golden Model, one of the greatest sons of the champion, Golden Model II.; Colonel's Ohio Chief, a richly-bred Colonel boar by Cherry Chief; Reiger's Kant Be Beat, a grandson of Kant Be Beat; Lafollette II. I breed for bone, size and early maturity and have the largest, growthiest bunch of sows that will be sold at auction this season. Write for catalog, mentioning The Homestead. Send bids to Dante M. Pierce, Homestead representative, in my care. Address

R. C. Plattenberger, Mt. Vernon, Ia.

Col. Fred Reppert, Auctioneer.

CHESTER WHITE SWINE.

Iowa Herd of Improved Chester White Swine

40 Aged sows for sale, reasonable, sired by such noted boars as Monarch Jr., Jerry S., Captain, Col. Sutton, Chief Commander and Allright. These sows will be bred to White Rock and Christopher 1st; latter won first and champion, Iowa State Fair, 1908; first and champion, Nebraska and Illinois State Fairs, 1909. Also two aged boars and a number of spring males and gilts. If in need of anything in this line, write me today or visit my herd. I ship on approval; if not satisfied, no sale. Mention Homestead. Thos. F. Kent (Successor to Geo. H. Lawshe), Rt. 2, Walnut, Iowa.

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 2d 5465, champion Iowa State Fair, 1909, and Minnesota State Fair, 1908; and Modeler 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented. W. F. HEMMERLING

DIKE, IOWA.

SOLD OUT OF BOARS

DEMAND for more than could supply. Great need of more Chester White breeders in Iowa and Dakota. More good foundation stock cannot be found anywhere than will go in my Closing Out Sale on Jan. 28, 1910. The 12 yearlings are tops of the last year's herd and 35 gilts have been carefully selected and nothing but the best will be offered. Send for catalog to A. A. ROGERS, INWOOD, IOWA.

O. I. C. The World's BEST HOGS

Seventy-five boars from 100 to 200 pounds and fifty gilts, same weight, of leading prize-winning blood lines—big-boned, good footed and good backs. Bred sows and fall pigs—special proposition—under guarantee. Write me now. Address

I. M. FISHER, BOX H, HASTINGS, NEB.

25 FALL PIGS FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Aledo Belle and Delta Girl. These pigs will be priced worth the money. E. L. NAGLE & SON, Deep River, Iowa.

Crosier's Choice O. I. C.'s

Offering the strongest lot of spring boars sired by Kerr Dixon and Kerr Solomon, and out of Kerr Garnett, White Oaks and other equally as well bred sows. Get price and description. Address Chas. W. Crosier - Juniata, Nebraska.

Two Good Chester White Herd Boars for Sale

THESE are May yearlings, or will exchange one for another herd boar. Also fall boars and choice spring boars for sale. Prices reasonable. S. J. Philson - Harlan, Iowa.

CHESTER swine. Only 3 male pigs left for sale; 20 good gilts. Will not ship poor ones. Write for particulars, prices. H. F. Gustoff, R. 1, Coon Rapids, Ia.

SCARFF'S O. I. C.'s

AM offering a fine bunch of O. I. C. males and gilts with extra length and bone, sired by sweepstakes boar, Norway Chief, and Ohio Chief. Prices \$20 and up. Write for descriptions J. T. SCARFF - SALEM, IOWA.

DUROC JERSEY SWINE.

YOUNG'S DUROC JERSEYS

HEADED by Kants Crimson, an outstanding boar of Kant Be Beat and Crimson Wonder breeding. Will price good males of March farrow; also a fall yearling of great promise. Write for price and description. E. K. Young & Son, Havelock, Neb.

GOLDEN MODEL

THE noted sire of show yard winners heads my herd. A limited number of high-class boars for sale. Fashionable dams. Write your wants. O. A. OLSON - MADRID, IOWA.

BROOD SOW SALE JAN. 25th

I WILL sell forty of the best Duroc Jersey brood sows in my Jan. sale that have ever been driven through a sale ring. Write for my catalog at once C. E. VEAK - ESSEX, IOWA.

Frontier Duroc Jersey herd. Best breeding. Boars and sows of March farrow for sale at reasonable prices. Solon Ellmaker, Batavia, Ia.

BRED sows for sale; safe in pig by Crimson Rambler. Model Chief 9th and Crimson King. Prices reasonable; sows guaranteed. J. no. Justice, Ankeny, Ia.

Duroc Jersey Sows and gilts, by an 800-pound sire, bred to a son of Muncie Chief. Address E. O. Smith, Winthrop, Iowa.

Harding-Rankin Sale DUROC JERSEY BROOD SOWS

CARSON, IOWA, JANUARY 21, 1910

The Greatest Offering of Brood Sows
That Will Be Sold in the West This Year

50 Head Matured Brood Sows, 50
Yearlings and Spring Gilts 50

TWENTY daughters of Ohio Chief, all bred to Harding's King of Cols. Fifteen granddaughters of Ohio Chief. One daughter of Proud Advance. Also daughters of I Am Advance, Crimson Critic, G. C.'s Col., Tientsin, Bob's Critic, Belle's Chief I Am, Nebraska Belle's Ohio Chief and other noted sires. It is the greatest offering ever sold in the West, and these sows are bred to the most noted boars of the breed. Write for our catalog at once and come to the sale. Bids sent to M. T. White, Homestead representative, in care of above breeders, will be properly cared for on sale day. Address

R. J. Harding, Macedonia, Ia.
W. A. Rankin, Carson, Iowa.

Cols. F. F. Luther and Fred Reppert, Auctioneers.

DUROC JERSEY SWINE.

DUROCS

WE are breeding a string of sows and gilts for our winter sale that you'll like. All the popular blood lines. "Always trying to better the best." Watch this space—we'll tell you more about it.

C. W. HUFF, MONDAMIN, IA.

Duroc Jersey Boars \$20
\$25

Sired by King's Col., King Solomon, I Am Crimson Wonder, Belle's Proud Chief and Model Chief 1st. These are special prices to close them out. Address August Hager, Avoca, Ia.

Beermann's Durocs

ALL sold out of boars. Bred sow sale January 19, 1910. The sows are doing well and will be in excellent shape by sale day. As good as best. CHAS. BEERMANN, R. 5, Webster City, Ia.

J. O. REECE & COMPANY

ELDORA, IOWA.
OFFER an excellent lot of spring boars at farmers' prices. Sired by Gold Bud, he by Golden Rule and Iowa Notcher, he by Top Notcher. Write for particulars and descriptions.

10 Fall Boars For Sale

ALSO a choice lot of spring boars and one great litter out of the great sow, Ohio Anna 5th. These are herd headers. Write me at once. J. E. WEHR - PORTSMOUTH, IOWA.

GOLDEN BEAUTY 51083

FOR sale at bargain price. Am entirely out of boars. Extra choice lot of gilts for sale, sired by Mayor Jr. Wonder, third prize senior boar, Iowa State Fair, 1907. Prices right. Address H. W. Lineweaver, South English, Iowa.

J. D. Wright, West Liberty, Ia.

OFFERS spring pigs of either sex at bargain prices. Fashionable families. Individual excellence to suit discriminating buyers. Write for prices and descriptions or visit herd.

DUROC JERSEY BOARS FOR SALE

6 YEARLING and fall boars sired by Crimson King, a son of Crimson Wonder; 30 spring boars sired by Lafollette, Model Prince, Crimson King and other boars. Prices reasonable. Address E. B. RYAN - NEOLA, IOWA.

Crimson Wonder I Am

QIN whiter boars by this great sire now ready to be out. All of them crackers. Three fall boars by American Crimson Wonder. Nothing but show yard quality to offer. U. G. Davidson, Scranton, Iowa.

DUROC JERSEY SWINE.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and
Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY.
Write Your Wants.

DEFENDER and KING WONDER

First and second-prize junior yearling boars at Illinois State Fair, 1909, both sired by King of Cols. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper. ERNEST PANCAKE, RANSOM, ILLINOIS.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

Duroc Jersey Boars, \$25 Each

20 BIG-BONED fellows, sired by Col. Chief and a son of Russell's Critic. These are the pick of 150 head. \$20 while they last. Address J. P. PETERSON, HERMAN, NEBRASKA.

GOLDEN MODEL

HEADS herd, assisted by Advancer 1st. Have some great sows and gilts bred to Golden Model for early farrow. Public sale February 1, 1910. W. R. BENNETHUM - MADRID, IOWA.

Duroc Jersey Gilts

A FEW choice gilts of good breeding, out of A matured sows, and bred to Royal Advance 81963, Royal King and Model Duke (son of Golden Model 2d). C. E. Longnecker, Maxwell, Iowa.

For Sale—My Duroc Herd Boar

Ruberta Belle's Wonder 81351; also a few of his pigs. L. L. WOODS, GRINNELL, IOWA.

15 Boars April and May farrow, and sows

and gilts of all ages for sale at moderate prices. S. J. Butts, Mason City, Iowa.

KEAN'S DUROC Bred gilts, popular breeding and gilts at moderate prices. Address FRANK KEAN, MT. PLEASANT, IOWA.

NAUMAN'S BROOD SOW SALE

WEST LIBERTY, IOWA, MONDAY, JANUARY 17, 1910.

40 HEAD--6 Yearlings--34 Spring Gilts

THE bulk of the offering are sired by Nebraska Chief by Red Knight, Buddy B. II. by Buddy K. IV., Double Wonder by Crimson Indicator, King Improver by J. D.'s Improver, King of West Liberty by Golden Rule. They are bred to Peachie Commodore, first in Illinois class and second in open class, Illinois State Fair, 1909, and Wonder Boy by Double Wonder. This offering will consist of sows and gilts in good condition, and fed and bred with a view to giving the buyer good results, individual excellence in keeping with the blood lines. Sale in heated pavilion. Write for catalog, mentioning Homestead. Send bids to Dante M. Pierce, Homestead representative.

Cols. Fred Reppert and Pliny Nichols,
AUCTIONEERS.

D. NAUMAN, West Liberty, Iowa.

GRANT HOCKETT'S DUROC JERSEY BROOD SOW SALE Manning, Iowa, Tuesday, January 18, '10

**40 Head MATURED SOWS, YEAR-
LINGS and SPRING GILTS 40**

THERE will be twelve daughters of my noted Iowa State Fair first prize winning boar, I Am Advance; two daughters of Ohio Chief; also daughters of Iowa Notcher, Model Chief 3d, Tientsin, Proud King, Golden Model 2d, Perfection King, Buckeye Chief and other noted sires. These are bred to Model Chief 3d, Golden Model 3d, Proud King and Golden I Am. I am selling an offering that the breeder will appreciate and the farmer will want. Write for my catalog at once. Address

G. W. HOCKETT - MANNING, IOWA.

Cols. F. F. Luther, Auctioneer. Bids sent to M. T. White, Field Man for Homestead, in care of Mr. Hockett, will be properly cared for on sale day.

BEERMAN'S DUROC SALE

AT WEBSTER CITY, IOWA, ON

Wednesday, January 19, 1910

**30 HEAD 14 YEARLINGS and AGED SOWS
16 SPRING GILTS**

THE offering is sired by Beerman's Model, Top Notcher Jr., King of Brookside, Advancer IV., Jr. Jim Jr., Ohio Chief, Iowa Jim Jr., Manley Orion, King George, Iowa Chief, Crimson Chief and others of note. They are bred to King of Brookside, Gold Prince III. by Colonel's Prince by Prince of Colonels; Beerman's Model by Model Chief. A good, useful lot of sows especially selected for this sale. Send bids to Dante M. Pierce, Homestead representative. Cols. O. L. and A. L. Mossman, auctioneers. Write for catalog to

CHAS. BEERMAN, WEBSTER CITY, IOWA.

DUROC JERSEY SWINE.

High-Class Duroc Jersey Boars for Sale

I HAVE two litters by my great State Fair winner, Guthrie Chief, out of Belle Advance by Advance. Also two litters by Ohio Chief I Am out of a Tip Top Chief and a Guthrie Chief sow. Also some splendid Chief Col. boars, as well as others by other noted sows. These are good and I am pricing them right.

S. L. HOPPER

NEOLA, IOWA.

HARDING'S HERD HEADERS

WRITE me now if you want DUROC JERSEY BOARS. I have several yearlings by Ohio Chief, out of Proud Advance dams; one yearling by Ohio Chief out of Nebraska Belle; 15 fall boars by Crimson Critic, and a grand lot of spring boars. Address

R. J. HARDING, MACEDONIA, IOWA.

Elder's Durocs

KING OF COLS. II, G. C.'s COL. and 30 of Grant Chapin's best brood sows were purchased and from these I have 125 choice spring pigs. Herd boars and choice breeding sows will be my specialty. Write your wants.

FRANK ELDER, GREEN, KANSAS.

REEDS' DUROC JERSEYS

BOARS all sold. We now offer high-class brood sows, sired by Model Chief 94969 and Advancer 28773, and bred to such noted boars as Model Chief 44969, Advancer 28773, the grand champion, Model Chief 2d 53753, and White Hall King 15977.

C. W. & WM. REED, ROSE HILL, IOWA.

Bargains in Bred Sows

SPRING, \$25; fall yearlings, \$30; old sows, \$35 to \$50. Our herd contains the blood of Tip Top Notcher, Crimson Wonder Again, Top Notcher Again, Proud Advance, Orion, Educator and other noted sires. Our sows are noted for producing large litters of strong, vigorous pigs. A few good spring boars left at \$20 each.

WOODLAWN FARM, STERLING, ILL.

Junior Yearling Show Prospects

WE are offering for sale two junior yearling boars that are show prospects. One by Col. Gladness, and one by The King. Write us if in need of a show boar or a breeding boar.

J. A. Shelton & Son, Manilla, Ind.

DUROC JERSEY SPRING PIGS

SURED by King Orion, Wonder Boy, Peter The S Great and Bartlett's Tip Top. Prices reasonable. Correspondence solicited.

EVERETT BARTLETT - COLUSA, ILL.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner

HEAD HERD

A few gilts bred to the above boars for sale. Address

C. C. Cushman, Mgr., Chillicothe, Ohio.

S. E. EAKLE

PROPHETSTOWN, ILLINOIS.

Offers a great bunch of spring pigs by S. E.'s Model by Model Chief, Model Wonder, Col. King, Model Again, Nebraska Belle's Ohio Chief and Gold Cloud. Size, finish, bone and quality. Priced to move quickly. Write for descriptions.

HIGH-CLASS DUROC JERSEY BRED SOWS FOR SALE

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel boar. These are good. Will not hold a sale and am selling them privately. Address

J. D. McDERMOTT, WIOTA, IOWA.

Boars All Sold

We are breeding a splendid lot of sows to Golden Model, Proud Wonder and Golden Model I Am, for our brood sow sale, January 31st. Remember the date.

OLSON BROS., WOODWARD, IOWA.

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banker 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows.

VON SEGGERN BROS., WISNER, NEB.

DUROC JERSEY SWINE.

Chapin & Nordstrum's Durocs

LITTERS by King of Cols. II, G. C.'s Col., G. C.'s Kansas Col. and Kelley's Pilot Wonder. Dams by Model Chief Again, C. E.'s Col. 2d, W. L. A.'s Choice Goods, Morton's Decree, etc. Three yearling and 3 fall boars for sale; good ones. Also some bred gilts for fall litters. Chapin & Nordstrum, Green, Kansas.

\$25--Bred Sows and Gilts--\$40

THE blood of Ohio Chief, Crimson Wonder, Glendale Critic and Improver II, represent the sows. Billie Davis by Tom Davis and Crimson Wonder Jr. by I Am a Crimson Wonder are the boars the sows and gilts are bred to. Write your wants. Address

FRANK ALLDRITT, FRIEND, NEBRASKA.

KING ORION

CHAMPION boar, bred by Exhibitor, Iowa State Fair, 1909, heads my herd. Pigs sired by King Orion, Chief's Col. and Wonder Boy, for sale. Write me, mentioning The Homestead.

CHAS. COOPER, FERRIS, ILLINOIS.

COL'S KING

A full brother to CHIEF'S COL. and ARTHUR'S CHOICE

FIRST prize boar Illinois State Fair, 1907, head my herd. For sale--5 September boars by Arthur's Choice and 125 spring pigs, both sexes, sired by Col's King, Arthur's Choice, Inventor, Kelly's Pilot Wonder, Orion Chief, Locust Lane Chief and Joe Orion. Write for prices.

ARTHUR L. PARKS, LELAND, ILLINOIS.

FIRST PRIZE BOARS FOR SALE

KANT Be Beat Again, first prize junior yearling Ohio State Fair, 1909; sired by Good E Nough, dam Our Pride, a second prize-winner at St. Louis. Nuggett, first prize under year and junior champion Ohio State Fair, 1909; sired by Golden Rule, dam Cedarvale Queen 8th. He is a full brother to Good E Nuff. Write for prices and description. Mention The Homestead.

WATT & FOUST,

Cedarville, Ohio. Xenia, Ohio.

MUNCIECHIEF

LITTER mate to King of Colonels heads herd. 1 Spring pigs by Muncie Chief, Nebraska Belle's Ohio Chief 71911, Savannah Belle's Chief I Am, and other noted sires.

A. P. ALSIN, BOONE, IA.

20 DUROC JERSEY BOARS FOR SALE

I AM offering some splendid boars for sale, sired by H. A.'s Choice Goods, Massena Chief, Iowa Critic, Iowa Model and Chief Matchless. Must sell, so am pricing them right.

Mark W. Eddy - Fontanella, Iowa.

CHIEF'S COL.

BOAR PIGS

OUT of the great brood sow, Helen Blazes, and sows by Ohio Chief, Proud Advance and other great boars. Pigs ready to ship. Address for price and description.

H. E. Browning, Hersman, Illinois.

Do You Want a Well Bred Duroc Jersey Boar

I HAVE them and they are good, sired by such noted boars as Crimson Wonder Again, Guthrie Chief, I Am Advance, Golden Model 2d and others. Write me for prices on these boars.

GEO. H. MILLER, CHARITON, IOWA.

High Notcher

Forty sows bred to High Notcher, Glad Col. and King's Col. will be sold in my bred sow sale January 13, 1910.

M. A. Kraschel, Macon, Ill.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

CRIMSON WONDER AGAIN

DUROC boars for sale--herd headers in type, style and finish. 60 spring pigs sired by Iowa Chief and out of Proud Advance dams. Some excellent fall boars for sale at farmers' prices.

C. O. THORNBURG, Pleasantville, Iowa.

GEORGE SEFRIT'S SALE BIG-TYPE POLAND CHINA BROOD SOWS LUCAS, IOWA, MONDAY, JANUARY 24, 1910

40 HEAD--20 BIG-BONED YEARLINGS, 20 BIG-TYPE GILTS

I AM selling, I think, as good an offering as was ever sold in southern Iowa of the big-type—quality kind, and they are certainly good. These are sired by Surprise Chief 2d 50514, Pawnee Lad 2d 50363 and Crow's Special 52713. The gilts are all bred to my splendid new boar, Guy's Prospect, one of the best boars sold last fall. The blood of old Giantess, Anna Price, Pawnee Lad, Crow's Model and Big Prospect will be found in my sale offering. There is not a better place in the state to buy Poland China bred sows this winter, as the corn crop in this section of the state is limited and you can buy these sows at your own price. Write for my catalog at once. Address, mentioning this paper, to **GEORGE SEFRIT - LUCAS, IOWA.** Col. H. S. Duncan, Auctioneer. Bids sent to M. T. White, Homestead representative, will be properly handled on sale day.

HORSES.

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES



We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

57 IMPORTED STALLIONS AND MARES

WITH PRACTICAL HORSEMEN a short statement of FACTS will have more weight than a whole page of MUSH. I have a stable full of SHIRES, first class in every respect. They combine WEIGHT, quality, good conformation and the best blood. Also WELSH MOUNTAIN PONIES of the highest type. I will sell them as low as legitimate business will permit. Write me for particulars. **GEO. E. BROWN, AURORA, ILL.** Aurora is 37 miles from Chicago by C. B. & Q., C. & N. W. and also by trolley; trains every hour. Also connected by trolley with Joliet, Geneva and De Kalb, and with Ottawa by the Fox River line.

PERCHERONS AND BELGIANS

THE NEW WAY "ONE PRICE,"
THE ONLY WAY "THE SQUARE WAY."
Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed. **W. J. BUTLER, OTTAWA, ILLINOIS.** Long Distance Phone.

HORSES

PERCHERONS,
Belgians, German Coachers
AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

CLYDESDALE and PERCHERON STALLIONS and MARES

20 HEAD imported Clydesdale and Percheron stallions and mares for sale. High-class horses at farmers' prices. Will sell teams of mares, fillies or two and three-year-olds. Horses handled right on my farm. Can save you middlemen's commissions. Address

R. O. MILLER - LUCAS, IOWA.

GALLOWAY CATTLE.

ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otter and other cows generally well known. Write your wants; we can suit you. **A. G. Abney, North Loup, Valley Co., Neb.**

CHAMPLIN BROS.

STALLIONS AND MARES
Percherons, Belgians, Shires
and French Coachers.



WE can show the best lot of horses for the money that have ever been offered by any importing firm. Good young ages, solid colors, style, bone, action and size. Prices right and terms the most liberal. See us before you buy, as by our modern selling methods stallions are bound to pay for themselves with practically no expense on the buyer's part. Our former patrons are our best boosters. Write for any information you may desire and plan to visit us. Our barns are in the city.

Champlin Bros., Clinton, Ia.

When writing please mention this paper.

HORSES.

FRANK IAMS'

new importation of draft stallions and mares arrived September 20, 1909, by "Iams' own special train" of "ten express cars." They are "business propositions," that "jar the cherries" on a "wide-awake" "horseman's hat." Iams' "Peaches and Cream" stallions and mares are "eye-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. Iams makes buyers

"SIT UP AND TAKE NOTICE"

"Ikey Boys" get into Iams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 27 years' successful business. He bought and sells better horses cheaper than ever. Mamma, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at Iams' Iams has

200=PERCHERONS AND BELGIANS=200



two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "toppers" at \$1,000 and \$1,400 (few higher), mares \$700 to \$1,000, so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000 SAVED AT IAMS' \$1,000

Ikey, what "a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no stallion salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams' competitors "holler." He is knocking "high prices" out of the Xmas tree. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His \$1,200 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by one-half million dollars.

Write for Million Dollar Horse Catalog, Greatest on Earth

REFERENCES—ST. PAUL STATE BANK AND CITIZENS' NATIONAL BANK,

ST. PAUL, NEBRASKA.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

**W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM,
CEDAR RAPIDS, IOWA.**

CLYDESDALE DISPERSION

AT BAILEY FARM, THREE MILES WEST OF

ANITA, IOWA, MONDAY, JANUARY 24, 1910.

THIS sale includes registered stallions and mares and Short-horn cattle. The stallions are Imp. Merrimac 12358 (sire Baron's Pride, dam Princess Alix (13564) a great show mare; Debonair 12976 (foaled September 1, 1906; sire Noranbank 11951, dam Princess Handsome 9758); Laird of Anita 12157 (foaled April 25, 1905; sire Prince Kirtlebridge 9221, dam Jess of Anita 10661); Royalist 13417 (foaled June 13, 1907; sire Royal Defender 9692, dam Jess of Anita); Claymore 13918 (foaled August 25, 1909; sire Merrimac, dam Jess of Anita). There are four mares—Jess of Anita, Queen 13916, Rose of Anita 12710 and Jean of Anita 13917. Four Short-horn cows, 3 summer calves and 2 yearling heifers. Also grade cattle and hogs. Col. J. West Jones, auctioneer.

ALFRED BAILEY, ANITA, IOWA, and ANITA HORSE COMPANY, ANITA, IOWA.

BELGIAN MARES

IMPORTED and American-bred Belgian mares, safe in foal by a reserve champion stallion at the Iowa State Fair. They are good ones, none over 4 years old, broken to harness, and in an ideal breeding condition. Also some mares not yet of breeding age. Among them are some that have been winners at the Iowa State Fair. Write for prices or come and see them. Address

CHAS. IRVINE, ANKENY, IOWA.

Percherons for Sale

Fifty head of imported and home-bred mares, two to six years old, bred to the best sires. Ten head of stallions, one to three years old. They are the right kind and priced right. Come and see and you will buy.

WELCH & PECK, LEXINGTON, ILL.

HORSES AND JACKS.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians so we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners.

We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

100 RHEA BROS.' ACCLIMATED PERCHERONS 100

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Percheron Stallions

WITH SIZE AND QUALITY

PLENTY of bone and good action. That's my specialty, and I can suit the man who wants a good stallion, as both the horses and my prices are right. **COME TO SEE THEM** and you'll buy, because you'll not be able to get better bargains anywhere else. I have a choice lot of stallions for sale now—home-bred and imported horses, carefully selected in France. Inspection especially asked. Notify me and I'll meet you at Ames. Farm 7 miles N. E. of Ames.

S. B. FREY, AMES, IOWA.



The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on Imported Clydesdale Stallions and Mares; also a few choicely bred Hackneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U.S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C., R. I. & P. Railway, forty miles northwest of Peoria, Illinois.



REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES

WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.**



CLYDESDALE MARES

I HAVE just received from Graham Bros., Claremont, Ontario, Canada, America's foremost importers and breeders of Clydesdales, two car loads of very choice, young, registered brood mares, imported and Canadian bred, with much size and quality and of good ages, all bred and many now showing heavy in foal. To move them quickly I am making very attractive prices on a limited number of these good mares. It will pay any intending purchaser of one or more registered mares to see them before buying.

LEN H. LAMAR - - STORM LAKE, IOWA.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUCH BROS., FAIRFIELD, IOWA.**



Shires, Clydes, Belgians, German Coachers

OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing them where every farmer can buy. Come and see us. Address **Luben Harrison & Son, Prescott, Iowa.**

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

**RENO & MORRISON,
BATAVIA, IOWA.**



CHESNUT STUD FARM PERCHERON STALLIONS AND MARES

TEN head of stallions and mares for sale, ranging from 2 to 5 years of age. Home-bred horses, \$500 to \$1000. Write, or come and see me. Address **L. C. BARNETT, INDIANOLA, IOWA.**

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. **Frank L. Stream, Creston, Iowa.**

HOMWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron, Belgian and Shire STALLIONS AND MARES

SIXTY head of stallions arrived August 10th. 40 head of Percheron mares arrived on Nov. 5th. We also have a choice selection of American-bred Percheron mares, fillies and stud colts. If in the market for a first-class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. Our Motto: Prices right, terms to suit, satisfaction guaranteed. No misrepresentations or disappointment on arrival. Write our home bank for reference. Homewood is on the main line Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly from the city. Bell phone Homewood 204.

Don't fail to see our exhibit of 60 head at the coming International.

S. METZ & SONS, HOMWOOD, ILLINOIS.

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS

WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

FORD & HARRINGTON, PARKER, SOUTH DAKOTA. FAIRBURY, ILLINOIS.



Ensign's PERCHERONS

OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write

**S. A. ENSIGN, CLEGHORN, IOWA
C. A. PINGEON, Sale Manager.**



M. L. AYRES, SHENANDOAH, IOWA

Thirty Years a Breeder and Importer of

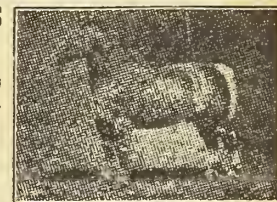
PERCHERON HORSES

A FINE selection of young two and three-year-old home-bred stallions for sale. The noted Brilliant bred stallion, BLANDE 36577, at head of stud. Anyone looking for a herd heading stallion will do well to patronize me. For bone, size and quality our stallions are unsurpassed. 125 to 150 head of horses on the place all the time. Come and see them or write for full particulars, mentioning The Homestead.

PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS AND MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 15th. Ernest L. Humbert & Son, Corning, Ia



Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9422 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1909 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.



New Importation of Percheron, Shire and Belgian Stallions

EXTR weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. **PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.**

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. **W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia.** Register your jacks in the American Jack Registry. Write for blanks.



Shetland Ponies The cream of Scotland; any kind you want; we sell them reasonable. **CLARKE BROS., Auburn, Neb.**

Large HeavyBoned Mammoth Jacks

FOR SALE; from 15 to 16 hands high, for \$350 and upwards. Farm located 8 miles west of Cedar Rapids. **JOHN HENRY FAIRFAX - IOWA**



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When writing to advertisers please mention this paper.

HORSES AND JACKS.

PERCHERONS

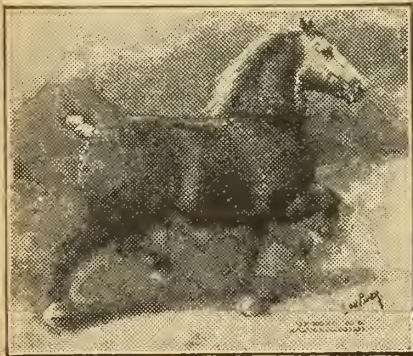
WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of this year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA.
C.O. Keiser, Keota, Iowa

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

DUNHAM'S PERCHERONS

Fourth large importation with in the year arrived Nov. 23d, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses—horses with bone, quality, size, action and best breeding, stallions or mares; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit
OAK LAWN
Catalog shows the place and the horses.
W. S., J. B. & B. Dunham, Wayne, Ill.

Fairview Jack and Jennet Farm

A FINE ASSORTMENT of the best MAMMOTH JACKS and JENNETS that grow 14 to 16" hands high. JACKS WITH LOTS of BONE and SUBSTANCE. Everything guaranteed as represented. Prices right. Address
J.C. Huckstep, Eolia, Mo.

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

When writing to advertisers please men-

HART BROS.

IF YOU WANT TO BUY A GOOD
STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.



HART BROS., OSCEOLA, IA.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address
GEORGE W. BILBO, CRESTON, IOWA.

HORSES.

BREEDERS' SALE

450-HORSES-450

In Coliseum, Bloomington, Ill.

FEBRUARY 1, 2, 3 and 4, 1910

ON TUESDAY, WEDNESDAY, THURSDAY AND FRIDAY WE WILL SELL
350 Imported and Native Bred Registered Percheron, Belgian, French Draft, Shire and Clydesdale Stallions and Mares

150 HEAD of imported stallions and mares that will land by sale day.

100 HEAD of imported stallions and mares that have been here a year.

150 HEAD of the BEST registered mares that ever went in an auction ring.

100 REGISTERED Stallions

Of the very choicest of breeding and individuality.

FRIDAY, FEBRUARY 4, '10

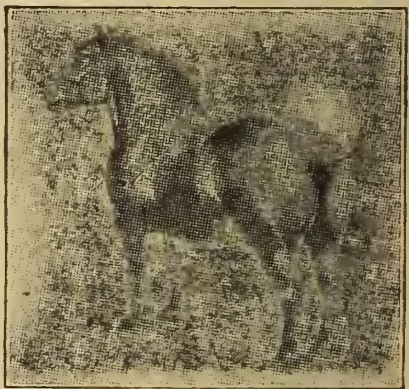
We will sell 100 head of registered trotters, grade draft, saddle and all-purpose farm horses, stallions, mares and geldings.

CONSIGNORS---Moots Bros., John C. Baker, A. M. Storms, Downs Bros., Miller Bros., W. S. Halane, H. I. Messinger, W. C. Baughman, O. R. Thompson, J. Wilt, John Yoder, M. G. Murray, Leemon Bros., Enos Stewart, W. H. Ritter, Sass Bros., D. D. Brotherton, J. W. Cavanaugh, W. H. Welch, T. T. Hix, Fred Musselman, Chas. Stewart, T. Stubblefield, W. A. Turnipseed, D. Augstin, Stream & Wilson, Wm. Zumdahl, A. J. Dodson, Ralph Moore, Geo. Rasor, L. C. Wheaton, R. E. Johnson, Ed Hodgson, C. W. Funk, Rogers & Allen, John Taylor, Simon King, Dr. D. Sigler, L. C. Judy, G. B. Loper, Hemphill Bros., G. H. Behrens, Ewing & Tavenner and forty others.

CATALOGS READY JANUARY 15, 1910

BREEDERS' SALE COMPANY

C. W. HURT, MANAGER, ARROWSMITH, ILL.



PERCHERONS AND BELGIANS

IN looking for stallions or mares don't buy until you have seen what E. J. Heisel is offering, as he buys and sells every stallion himself. Your first purchase at this establishment means another life-long, satisfied customer. Some of the best stallions and mares that were imported to the United States are in the importation which arrived August 10, 1909. Address all correspondence to



E. J. Heisel, Fremont, Mahaska Co., Iowa.



PERCHERONS, SHIRES, BELGIANS

100 HEAD of imported Stallions now in our barns to select from. The best that money could buy in the old country. We invite inspection. Write for our new catalog. It will show you over 60 kodak pictures of the stallions now in our stables.

Watson, Woods Bros. & Kelly Co., Lincoln, Neb.

Imported Percheron and Belgian stallions and mares, with size, quality and action; develop from 1,700 to 2,300 lbs.; do not handle any but the best and reliable stock that makes friends after sold. Price them to sell, with good guarantee. Inspection invited. Joe Rousselle & Son, Seward, Nebraska, 29 miles northwest of Lincoln, Nebraska

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,500 to 2,200 lbs.; easy terms. 1/2 ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$550 each.

A. Latimer Wilson, Creston, Iowa.



HORSES.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

TWELFTH IMPORTATION SINCE AUGUST, 1908, ARRIVED NOVEMBER 14, 1909.

OUR WINNINGS AT 1909 INTERNATIONAL:

Grand Champion Shire Stallion.
Champion three-year-old and over Shire Stallion.
First, Second, Third, Fifth, aged Shire Stallion.
First, Fifth, three-year-old Shire Stallion.
Second, Fourth, two-year-old Shire Stallion.
First and Second, five best Shire Stallions.
Grand Champion Shire Mare.
Reserve Champion Shire Mare.
First, Second, Third, aged Shire Mare.
First, Second, Fifth, two-year-old Shire Mare.
First, Second, three best Shire Mares.

First, Shire Mare and Colt.
Gold Medal (English) Shire Stallion.
Gold Medal (English) Shire Mare.
English Hackney Medal. American Hackney Medal.
First, aged Hackney Stallion.
Champion Hackney Stallion.
Champion Stallion in Harness.
Champion Coach Stallion (all breeds competing).
Reserve Champion Hackney Mare.
First, aged Hackney Mare.
TEN SILVER CUPS.

50 IMPORTED SHIRE MARES FOR SALE. Address for catalog and other information, mentioning this paper when writing

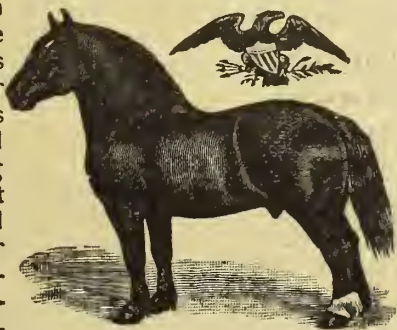
TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October and one in November. Another shipment will arrive before the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. **We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions.** We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

LA FAYETTE STOCK FARM

ANNOUNCEMENT! The season for buying stallions has opened. We are ready for business with the grandest lot of uniform high-class horses ever offered.

PERCHERONS A great selection of blacks and grays, ages two to six years, with the bone, weight and quality, including every first prize-winner as well as other horses in the money at the 1909 Paris show, and the largest prize-winners at the American shows this year. Our entire lot of Percherons are the very best money will buy.

BELGIANS A most remarkable lot of horses of this well-liked breed, great big massive horses of wonderful good make-up. Stock horses that will produce the big market horses so profitable to the farmer. All the good colors, combined with other good qualities, that will suit a buyer for a Belgian.

SHIRES We have them in every way up to the standard of our other draft breeds, from the best blood in England. They stand out strong in all the points that go to make a good Shire horse.

GERMAN COACH AND HACKNEYS The right kind of a Coach horse is the Coach horse to buy, a German Coach or Hackney stallion from the La Fayette Stock Farm, where you have plenty to select from—a lot that have a national reputation in the show rings, east as well as west, for their excellence, for breeding purposes.

We offer over 200 head of stallions and mares of great merit at most reasonable prices and a good honest guarantee. Do yourself justice by seeing our horses before you buy.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.
W. A. Dobson, Iowa Agent, 1374 21st Street, Des Moines, Iowa.

IF YOU WANT TO BUY A STALLION

EITHER

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any banker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer.

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. for the asking. Address BOX 68.

McLAY BROS., JANESVILLE, WIS.

THE CLYDESDALE SPECIALISTS

HHEADQUARTERS of the breed in America. More prizes at nine Internationals than any competitor. Two importations this year. We can buy better, we can buy cheaper, than any. Our expense is much less. We want less profit. We also breed them. Eventually, if not now, these facts must appeal to you. Your own interest demands it. Come and see. Wire or write us.

STATIONS—JANESVILLE OR AVALON.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German Coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

FRANK L. STREAM, Creston, Iowa.

Percheron and Belgian STALLIONS and Mares

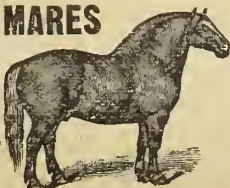
Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot, 1/2 mile north of C. M. & St. P. R. depot. E. H. Knickerbocker & Son, Fairfax, Iowa.



PERCHERON MARES

BELGIAN MARES Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

C. G. GOOD, Osgood, Iowa.

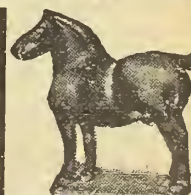


25 IMPORTED AND AMERICAN-BRED

Percheron Mares

At prices less than the cost of production. All acclimated and bred. Do not miss this opportunity to secure the best. None reserved.

Holland Stock Farm, Springfield, Missouri. The largest importers and breeders in the Southwest.



\$5000 WE WOULD PAY FOR A NAME.

The Chicago House Wrecking Co. was organized in 1893 for the purpose of dismantling the World's Fair at Chicago, since which time we have purchased and dismantled all leading Expositions, including the Pan-American of Buffalo, the Trans-Mississippi of Omaha and the great \$50,000,000 St. Louis World's Fair.

In addition our business consists in the purchase from Sheriffs, Receivers and Manufacturers' Sales of immense stocks of general merchandise and supplies including practically every known manufactured article. Engines, Boilers, Machinery of all kinds, Hardware, Structural Iron, Metal and Composition Roofing and Siding, Plumbing Material, Heating Apparatus, Building Material of all kinds, Carpets, Rugs, Furniture, Complete Office Equipment, etc. During the past five years we have devoted ourselves extensively to the purchase and sale of brand new stocks of Lumber, Sash, Doors and Mill Work.

At its inception, this Company never realized that its operations would extend to its present vast dimensions. We have spent millions of dollars acquainting the public with our wonderful mercantile institution and with the vast quantities of merchandise and supplies that we have for sale. At the present time material we advertise for sale is first-class, brand new merchandise.

Our greatest difficulty has been to impress upon the public mind the salient fact that our goods are not second-hand; neither are they wrecked material, nor anything but first-class, high grade goods just the same as you would purchase at any mercantile house in the land.

The false impressions gained by our name misleads the public into the belief that the goods we offer for sale are not brand new.

It is for that reason that we have been forced to the conclusion that if we could discover a name broad enough in its terms to correctly convey the meaning of our institution and its possibilities for the public's use, we would adopt such a name and would willingly pay the sum of \$5,000 to the one suggesting it. The name accepted would be used in place of the Chicago House Wrecking Co.

In making us a suggestion the name must imply to the public thought that we are the purchasers of great institutions, such as expositions, etc. It must also impress the fact that our goods are new and first-class; also that our location is at Chicago. It must be crisp, short and original in every sense. Some idea of who we are and the nature of our business will be gained by the careful reading of this advertisement.

Set your mind to thinking and see if you cannot invent a name that will be the keynote to our continued success, and that will remove any false impression now existing.

Our new 500 page Catalog containing a short sketch of our organization and business career, with 100,000 valuable articles fully illustrated and described will be sent free to those who ask for it. It is of indescribable value to the buyer for any institution, and should prove an inspiration and help to those interested in finding us a new name.

All suggestions should be addressed as follows:

**BUSINESS MANAGER'S OFFICE No. B. 17
CHICAGO HOUSE WRECKING CO., CHICAGO.**

1910 ANNOUNCEMENT CHICAGO HOUSE WRECKING CO.

WORLD'S BARGAIN CENTER

SAVE 30 TO 50 PER CENT. BRAND NEW STAPLE MERCHANDISE.

**MANUFACTURERS'
SALES**

**RECEIVERS'
SALES**

**SHERIFFS'
SALES**

FURNITURE

Over \$300,000 worth of high grade, brand new furniture, carpets, rugs and linoleum. Everything needed to furnish your home complete. No shoddy furniture in our stock. It is the best that can be manufactured. It is built for the tastes of people who know real quality. Our goods are bought at Sheriffs' Receivers' and Manufacturers' Sales. This gives us a big advantage over any possible competition and the public gets the benefit of our buying operations. Write for prices on any article you may require. Our General Catalog shows all our wonderful furniture stock. When in Chicago visit our monster furniture salesroom, the largest in America.

LUMBER

Send us your Lumber Bill for our Estimate. We will quote you on brand new high-grade, clean stock and make you prices lower than any one else can afford to sell it for. We own outright over 50,000,000 feet of brand new lumber. There isn't a piece of second-hand lumber in our stock. All our Mill Work is also brand new. If you will tell us just what you need, listing up each item correctly, we will quote you on the entire bill of material you need to construct your building. Our prices are always the lowest. We are selling more lumber and building material direct to users than any other concern in the world. Write us for our low estimate.

HARDWARE



You will find that there isn't an article in the Hardware Line but what we can furnish to you at extremely low prices. Our entire stock of this material is new, nice clean goods just as good as you can purchase anywhere and Prices are Right. Get our prices before buying elsewhere.

HOG TROUGHS

Strongest made. "So strong no animal can break or injure," made of 1/2 inch boiler steel. Size 13 in. by 7 in. x 5 ft., at \$1.95, worth \$5.00. Over 150 other styles and sizes for Poultry, Hogs, Sheep, Horses and Cattle. Write for circular.

RUBBERIZED GALVO ROOFING



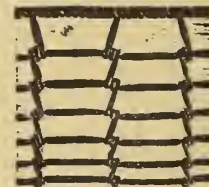
\$1.00 per square for our genuine Rubberized Galvo Roofing best ready to lay roofing on the market. Price includes nails, caps and cement sufficient to make the laps: 2 ply at \$1.25; 3 ply at \$1.75 and we pay freight to points within 400 miles of Chicago.

This freight paid offer does not apply to any of our other offers.

RAWHIDE RUBBER ROOFING.

Our New Rawhide Rubber Roofing, is the finest roofing produced. Absolutely No. A-1 grade, guaranteed three to ten years. Positively no equal on the market. Price... \$1.25 per square and up.

FENCING



The best Galvanized Woven Wire Fencing manufactured. Strictly first-class. Made of hard spring wire. Top and bottom wire are made of two wire twisted together to form one extra heavy coil. We can furnish in all sizes and shapes. Our special 25 in. Hog fencing with stays 6 in. apart we quote at 20¢ per rod. Extra heavy cattle fencing, 46 in. high, with 6 in. stays, per rod 35¢. Our special Poultry and Rabbit Fencing, small enough to turn any poultry or rabbit, and heavy enough to turn cattle, 48 in. high per rod 34¢.

HEATING APPARATUS



We furnish complete Hot Air, Hot Water and Steam Heating Plants of every kind. It makes no difference whether it is an old or a new building, we can furnish material at real wrecking prices. Our Special Heating Booklet, which we send free to those interested, tells all the facts and gives much valuable information. Send us sketch or diagram of your building or home and we will make you an estimate. Anyone can install them with the aid of our blue prints and free instructions.

PLUMBING MATERIAL



90¢ buys our special flat rim, cast iron white enamel Kitchen Sinks, new but slightly defective. Price includes strainer and coupling. \$5.50 buys an enamel Bath Tub. \$10.00 is our price for a cast iron, roll rim, white enamel Bath Tub. \$9.50 for our white enamel low down tank Water Closet, complete outfit. You can buy Wash Stands from us at \$3.25.

IRON PIPE—A complete stock of new pipe. Black 1/2 in. at 3¢; 1 in. at 4¢; 1 1/2 in. at 6¢, per ft. Galvanized, 1/2 in. at 4¢; 1 in. at 4¢; 1 1/2 in. at 6¢. Other sizes at equally low prices.

SHINGLES



50 carloads Washington Red Cedar shingles at exceptionally low prices. Our shingle mill connections on the Pacific Coast enables us to supply you the very best grades of shingles that you can positively rely on. We carry a tremendous stock of all grades in Chicago and can make immediate shipment. Special low prices on straight car loads. We guarantee grades. Write today for quotations. Tell us how many shingles you need.

Mill Work—Save 25 to 50 per cent on brand new Mill Work. Our stock includes everything. Send us complete list for our low delivered prices.

BARBED WIRE

\$1.65 Per Reel. At this price we furnish special high-grade galvanized brand new Barbed Wire. The price is per reel, and each reel contains 80 rods. This material is acknowledged the best wire manufactured. It is made of No. 14 and has barbs 3 inches apart and every reel is guaranteed true to measure. We have an unlimited supply but the price is bound to advance, and would advise quick action if you are in need of wire. Have now in stock several carloads of Galvanized 4-point Barbed Wire put up 100 lbs. to a reel, damaged slightly, but good for all general purposes. Price per 100 lbs., while it lasts, \$2.00. Painted Barbed wire, 100 lbs. Four point \$1.75 or Two point at \$1.85. Twisted Cable Wire, 100 lbs., \$1.75.

BLACKSMITH SUPPLIES

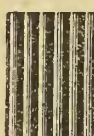


Horseshoes \$3.00 per keg. Horseshoe Nails 7¢ per lb. Hammers, 80¢, Forges from \$4.25 up. Anvils 6¢ per lb. up. Everything you need in Blacksmith Tools. Our General Catalog fully describes our present stock. No matter what your needs, write us. Tell us what you need. We save you from 30 to 60 per cent.

2 H.P. GASOLINE ENGINES \$36.00. Strictly brand new; vertical, 2 cycle type. Electric spark igniter, complete ready to run. Guaranteed. Write for description.

**LUMBER
FURNITURE
CARPETS
MACHIN'RY
FENCING
HARDWARE
ROOFING
PLUMBING
IRON PIPE
FITTINGS
VALVES
PULLEYS
BELTING
BOILERS
SAFES
HEATING
PLANTS
STRUCT'R'L
IRON
TANKS
MILL WORK**

STEEL ROOFING



100,000 Squares of new Steel Roofing which we are selling at the following prices, freight prepaid:

Flat.....\$1.60
Corrugated, V Crimped or Standing Seam.....\$1.85

At these prices we prepay freight to all points east of Colorado except Oklahoma and Texas. Quotations on these points on application. Our high grade Galvanized Rust Proof Roofing at prices ranging from \$3.00 per square up. Write today for free sample.

BRICK SIDING

\$1.85 buys 100 sq. ft. of our Pressed Steel Imitation Brick Siding, a fire-proof covering for buildings of every kind. It is easy to put on, requires no previous experience. Looks just like the real brick after you put it on your building. Sheets are 24 inches wide by 68 inch long. We will prepay the freight if you live East of Colorado, except in the States of Texas or Oklahoma. The freight prepaid proposition refers only to this brick siding. Ask for samples.

METAL SHINGLES—Painted and Galvanized. Write for description and lowest prices ever made.

BEADED CEILING

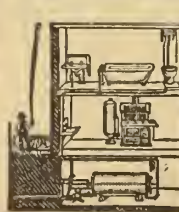


Steel Beaded Ceiling \$1.85 for 100 sq. ft. of our New Metal Beaded Ceiling. It can also be used for siding. The sheets are 6 and 8 ft. long by 24 inches wide. The beads are small corrugations 1/2 inch size, running the full length of the sheet. A fine ceiling for any general purpose. Easy to lay, requires no experience. We will prepay freight on this Beaded Ceiling at this price to all points East of Colorado, except to Oklahoma and Texas, prices to these points on application.

LAWN FENCE.

Beautiful designs. Improves your grounds. 35 in. at 10¢, a ft. Our Catalog gives full details.

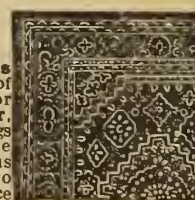
WATER PRESSURE SYSTEMS



Modern Air Pressure Water Supply Systems at prices ranging from \$48 to \$200. They are strictly new first-class and complete in every detail. Our Book of Plumbing and Heating, which we mail free of charge, tells all about them. You can enjoy all the comforts of city life by their use.

RUGS

9x12 ft. Smyrna Rugs \$6.00, extensive variety of beautiful patterns, oriental or floral designs, rich color combinations. These rugs are reversible and may be used on either side, thus giving you the service of two floor coverings for the price of one. These rugs are absolutely brand new and perfect. We also have large stocks of Royal Wilton, Axminster and Brussels Rugs. LINOLEUM—Lasts five times as long as oilcloth. Brand new at 29¢ per sq. yd. Absolutely perfect, no cracked or soiled pieces in entire lot. Hundreds of beautiful patterns in rich colors, consisting of beautiful tile and floral designs. See our Catalog for illustrations in colors.



OUR MAMMOTH FREE CATALOG

The Greatest Price Maker Ever Produced. A book of 500 Pages profusely illustrated. A demonstration of what the CHICAGO HOUSE WRECKING CO. stands for as a bargain center. It's such a book as every buyer of merchandise must have in his or her possession. It will save you money every day you buy goods. It's a pace maker in the bargain world. It shows what vast lines of merchandise are secured by us at Sheriffs', Receivers' and Manufacturers' Sales. It costs \$1.00 to produce each one of these catalogs. We send it to you absolutely without charge of any kind and without any obligation. It contains a description of our vast stock of Furniture, Household Goods, Office Fixtures, etc. Fill in the coupon shown elsewhere in this advertisement and tell us what line of merchandise interest you most and we will furnish you with the additional information concerning the material you need. Write today.



CHICAGO HOUSE WRECKING CO., 35th and IRON STS CHICAGO.

FILL OUT THIS COUPON.

CHICAGO HOUSE WRECKING CO.

I Saw Your Page Advertisement in Homestead.

329

1-10

I am interested in the following items:—

Send Me Your Large Illustrated Catalog.

My Name.....

Town.....

R. F. D.....

P. O. Box.....

County.....

State.....

READ WHAT THE CHICAGO HOUSE WRECKING CO.'S CUSTOMERS SAY:

Chicago House Wrecking Co., Chicago, Ill.
Dear Sirs:—I received your catalogue of lumber that I ordered from you in July. Some time ago I had my barn put up and painted, and the lumber men here tried to scare me. They said that the lumber would not hold paint, but the painter said that it was as nice a lot of lumber as he had ever painted, and I was well pleased with it all. The lumber men in town were down to the car to see the lumber when I unloaded

it, and they tried to find all the fault that they could. The blueprint was received from you and is all right, and I will not be afraid to build this, but will be pleased to place another order with you next summer. Yours truly, (Signed) J. E. French.
Chicago House Wrecking Co., Chicago, Ill.

Dear Sirs:—I received carload of lumber O. K. At present writing can find no discrepancies in the tally. Must say that all around here pronounce it "too good for a barn." It is not too good for me and will use it. I have to thank you for your prompt

attention to my order and think it will help you to future business. Yours sincerely,

(Signed) Thos. W. Wilsch.
Chicago House Wrecking Co., Chicago, Ill.

Gentlemen:—Four car of lumber for barn arrived all O. K. Lumber gives good satisfaction. We have two bills in view and think we will land them. Thanking you for past favors, I remain,
Very respectfully,
(Signed) L. C. Hain.
Hain & Slater, Contractors and Builders.

Chicago House Wrecking Co., Chicago, Ill.

Dear Sirs:—I received the car of lumber last Monday, and it came through in good shape. There was nothing broken. We are letting the foundation dry till next Monday, then we will start to build. Thanking you for your promptness and good material. Some of the lumber dealers came and looked at the lumber and said, "I guess you didn't get beat." I saved all of \$150 to \$200 on that carload.
Yours respectfully,
(Signed) Sam Birky.



VOL. LV. NO. 3.

DES MOINES, IOWA, JANUARY 20, 1910.

WHOLE NO. 2728

TWO WAYS OF RAISING CATTLE.

The following communication has been received from a North Dakota subscriber, Mr. Carl Lawson:

I sometimes think that the average man does not realize how much difference there is between the two methods of raising calves, namely, by hand and by letting them suck their dams. Here in North Dakota it is possibly as cold as it is in any state covered by your paper, and under the conditions here I have found it practicable to carry my cattle through without putting them in the stable. All that is necessary is to have a shed closed on three sides and open on the south, also a good straw stack and plenty of prairie range. I find that calves that have sucked all summer go through the winter in splendid shape, and furthermore, they are carried through the winter at a very low cost. On the other hand, my experience is that the same kind of treatment given to calves raised by hand, will result in heavy losses during the winter period. Calves that are hand raised do not seem to be able to withstand some of our severe storms, and it matters not whether they are in the stable or exposed, the calves that run with the cows during the fall and winter can stay out the coldest night, without any injurious result whatever. It is, therefore, a settled question in this part of the country that the only way to raise beef calves is to let them suck.

It cannot be denied that much depends upon the kind of care that calves receive during the first six months, as to whether they go through the winter in good shape or not. It is true, also, that the calf that sucks always produces a much better coat of hair than the calf fed skim milk, and necessarily the calf that sucks is in a better condition of flesh and has in addition a nice covering of fat, which unquestionably is an added protection.

However, in spite of the manner in which the method of feeding affects the hardihood of the calves that suck,

there is no question but what in certain parts of the corn belt it is more profitable to raise them by hand. Where one is in a position to handle dairy products a beef calf can be put on skim milk when it is three weeks old, and the butter fat disposed of at prices ranging from twenty-five to thirty-five cents per pound. At that figure one can well afford to supplement skim milk with corn meal or other foods rich in starch. By feeding an abundance of grain it is surprising how skim milk calves will thrive, and especially so if the milk can be fed at blood heat always. It is also necessary to feed each calf separately, otherwise there

is a certain amount of gorging and that always impairs digestion. By utilizing a system of stanchions the labor of handling a bunch of calves can be reduced to the minimum, and while we do not pretend to say that they will be as heavy at six months as if they are fed whole milk, yet they may be kept in a reasonably good condition of flesh and be made to carry a fair degree of fat. After getting any calf in good condition it is a losing proposition to let him experience too much hardship the first winter.

THE INJURY TO SEED CORN.

One of our Minnesota contributors, Mr. A. L. Goddard, a gentleman whose name is well-known to many of our readers on account of the fact that he has succeeded admirably in fixing the type of certain varieties of corn, sends the following communication dealing with the seed corn prospect for next spring:

I am getting a great many letters from all parts of the corn belt asking me the situation on the seed corn question the coming spring. I am not in position to answer these inquiries by personal letters. I am not a seed corn dealer and have no seed corn to sell, having sold the few bushels I had to spare early in the season. Have had calls for nearly a thousand bushels up to this time and still the letters are coming. The long freeze on the 12th to 14th of October last froze the corn and spoiled it for seed purposes and our fine field of corn was no exception, although the crop had the appearance of being thoroughly matured, the sap was yet in the stalk. The wet weather, followed immediately by the freeze, froze the corn and killed the germ. This was the condition throughout a portion of the corn belt. I began gathering our seed stock for next spring planting on the 6th day of September, by going through the field and selecting ears

from well-developed stalks and hung them up to dry under a roof. This is the only sure and safe way for the farmer to make sure of reliable seed corn one year with another. The agricultural press and the experiment stations have warned the farmers time and again in this matter, but it seems that this warning has not been heeded and next spring they will be confronted with the greatest seed corn famine for many years.

Those who were fortunate enough to select their seed corn early last fall as did Mr. Goddard have taught their fellow farmers a lesson that should not be forgotten in the near future. The fact that we are getting our varieties of corn just a little bit larger increases the risk of having the crop caught by frost, and likewise emphasizes the importance of selecting seed early. Of course it is too late to talk about seed selection now, but it is never too late to profit by a mistake in the past, in order that the same mistake shall not be made again.

THE WAGES OF GREED.

Not only the wages of sin, but the wages of avarice is death. He who deliberately sets out to give his greed unbridled liberty and to put no curb on his craving for wealth must be willing to pay the toll which cupidity imposes.

The daily newspapers chronicle the deaths within the past few weeks of ten men of Pittsburg whose wealth is given as above a million dollars each and twenty-five others whose individual wealth is estimated at from \$100,000 to \$500,000. Every one of these men died suddenly, and in the harness. All had a fortune on which to retire in comfort, but all had been

bitten with the mad desire to make still more money. As a result, but few of the three dozen had had time or opportunity to enjoy any of the fruits of their hard work and plotting. One man had recently completed a magnificent castle, which he had furnished lavishly. He lived to occupy it only a few days. Others had dreamed of the time when they might live a life of ease; they could afford it, but the Midas instinct had seared their souls; they had become mere money-counting machines; they were hardly human organisms, only mere pawns in the great game of fortune grabbing.

There is something pathetic in this sight of men struggling for more wealth than they need, can use or enjoy. If the innermost thoughts of these men could be known, it is highly probable that the humblest toiler dependent on each day's work for each day's food would be glad that his lot in life had not led him into the mad scramble for great wealth. David Grayson, in one of his splendid little essays on contentment, tells how he invited in the neighborhood's rich folks to Christmas dinner on his farm, reasoning that while other charitably inclined people went out into the highways and byways searching for the poor to succor and feed, very few gave to the rich any real human sympathy or unpaid kindness. That he reasoned right was evidenced by the appreciation of the millionaire and his wife who lived in a real castle, but were lonely for human sympathy and the comradeship of fellow men and

women. This is one of the important phases of life in which the farmer is far better off than the city man. There are thousands upon thousands of farmers throughout the grain belt who have made enough to keep themselves and their families the rest of their lives, to educate their children and to gratify their natural longings for books, amusements and simple pleasures. These men have been wise enough to see that there is something more to life than piling dollar upon dollar, the mere physical act of garnering the sheaves of currency. While watching the miracle of the planted seed sprout and burgeon into blossom



BEN LOMOND 12853
IMP AND OWNED BY JOHN LEITCH
LAFAYETTE, ILLINOIS

BEN LOMOND (12853), ONE OF THE PRIZE-WINNING CLYDESDALE STALLIONS OWNED BY AVONDALE STUD FARM, MR. J. LEITCH, PROPRIETOR, LA FAYETTE, ILL., SEE ADVERTISEMENT ON PAGE 55.

and fruit and ripened grain they have felt the quickening of their own soul and have learned that he is poor indeed who garners only mere physical wealth and starves or stultifies the soul.

It is not given to the farmer to feel the maddening impulse of the city to get rich at any cost; his wealth is a matter of natural evolution, of unstimulated growth as natural as the growth of the planted seed. The city man's wealth is all too often the hothouse growth in which Nature has had little or no say. The farmer lives a natural life, one crammed full of the really-worth-while things of life; his work gives him a proper conception of cause and effect and of the natural proportions of work and of people. He learns that there is something more to life than making money beyond the point of plenty. It is the old, old story of farm life being the most satisfying, because (despite all the material comforts and conveniences of the city) the farm has, after all, more of the things which really matter and which count in the fullest enjoyment of life and work.

THE "KNOW HOW" IN AGRICULTURAL MATTERS.

The following communication has been received from a young man who is now conducting a commercial business in a large city:

I am conducting a business that pays me very well indeed, though I have an idea that I could make some money if I owned or rented a small farm near the city which could be devoted specifically to poultry raising and incidentally to the production of other produce that would find a good market in the city. Of course I would have to depend entirely on hired help, but nevertheless it seems to me that at the present price of produce there should be good money in the business. In view of this I would like to ask you to name a number of good books on poultry raising. How many acres are necessary in order to carry on a profitable business in that line? Where would one look for a good man to take charge of it, and how much capital would it take to start such a farm? Last, and most important, of course, of all, how much profit should it pay per month?

We are discussing this topic outside of the Poultry Department in order to make general application of this specific case. The man who thinks that any phase of agriculture can be carried on by "rule," as it were, has another guess coming. Those who are of the opinion that by reading a few books on a given subject and that by taking so many acres and that by starting in with a certain amount of capital—we say the man who thinks that these are the only essentials to success is the very individual who had better keep out of the business. The important factor in the whole matter is the "know how," while the amount of capital one has to begin with, the number of acres that are being used, and even the kind and character of the books available are entirely incidental.

While it is no doubt true that there is not a proper balance in this country, as between consumer and producer, owing to the strong tendency in the last decade for men to congregate in the populated centers, we have always taken very little stock in the advice of those who are advising men to leave the cities for agricultural pursuits. For the man without capital the advice is good in many cases, because there are tens of thousands of men in our towns and cities who would be more independent, and certainly much more useful to society in general, if employed on farms rather than sweating out a most meager kind of existence in the towns and cities. But when it comes to the matter of taking up land and starting in without any practical experience in agricultural matters, we cannot see that any good results can come from that kind of a redistribution of our population.

The mere act of asking how many acres are necessary in order to make a poultry plant pay is *prima facie* evidence that the questioner does not understand the fundamental principle involved in carrying on that kind of business. One man will take an acre and will handle poultry in such a way as to make it not him a handsome income, while another man may take twenty acres, or double that acreage, and fail to make a living.

The solution of this whole problem of balance as between production and consumption must be brought about by those who are already engaged in production by making the acre do more. Our farms in the central West

now average from 120 to 160 acres and we are of the opinion that for the most economical kind of production that average is small enough. By the employment of sound principles of culture, and especially by the introduction of sensible rotation systems it will be entirely practicable to double our present output in the next twenty-five years. Instead of producing a thirty or thirty-five bushel average of corn, we ought to aim at sixty and seventy bushels per acre, and those of the younger generation who are living today, will see the day when that average will be made.

There is no doubt in our mind, but what our readers will consider the question asked above are in the main absurd, and yet we should not lose sight of the fact that the high price of food products in general is getting a good many of our city people interested in the problems of production. They are looking to the farm as the most profitable means of making a livelihood, and the only way in which farmers can shut out this class as competitors is to make better use of the present opportunities so that the soil is made to produce a half more, or even double what it ever has produced in the past.

SOUND PRINCIPLES IN OAT GROWING.

A contest was carried on last year by the Quaker Oats Company for the purpose of bringing together a considerable volume of good literature on the question of oat growing. Large premiums were offered for the best essay on the subject "How to Grow Oats." The winner of the first premium in that contest, Mr. J. H. Burg, of Iowa county, Iowa, discussed the main points of oat growing in this way:

The first and most important item to be considered is the seed, as what we sow that we must expect to reap. To produce a large crop we must have seed that is in its highest state of development; furthermore, it must be thoroughly fanned and properly graded so that none but heavy and uniform kernels remain, after which it should be carefully treated for smut. The old method of taking the seed from the bin direct to the field, without any previous preparation, is the leading cause why such low yields are in evidence. Some advocate obtaining an occasional supply of seed from some cool climate where it reaches its highest development. This is advisable if for any reason our grain shows evidence of running out, as is often the case in our climate.

The preparation of the seed bed is next in importance. Upon investigation we find that most farmers give little or no previous preparation to the soil before planting. The usual plan that is practiced is to plant the grain then disk and harrow it in; or, in other words, prepare the seed bed after the planting. Then the farmer will wonder why his stand is streaky and so uneven.

To obtain an even stand and uniformity in ripening of the grain, we must have a well-prepared seed bed previous to planting. In this section oats usually follows a corn rotation. Thereby we have to contend with the stalks, but by the use of a sharp disk little trouble is experienced.

As oats do best on a firm seed bed it is not advisable to make it more than three or three and one-half inches in depth. This is usually accomplished by disking twice, giving it a half lap, following by double harrowing. This treatment, if properly done will leave the ground in excellent shape for the disk drill to do first-class work. In sowing the seed, which is the last step, the use of a drill cannot be recommended too highly, as it places the seed in the ground at a uniform depth into moist soil, and none is wasted as in broadcasting.

After repeated tests in drilling and sowing broadcast, a difference is found of from four to eight bushels per acre in favor of the former. Sowing or drilling should be commenced as early in the season as conditions permit, as early-planted fields usually produce the better quality of oats. Three to three and one-half bushels to the acre of ordinary size seed gives the best results; broadcasting and the large varieties of oats requiring more. It is important that the seed receives an even covering at a depth of from one and one-half to two inches.

In conclusion we may again state that too much importance cannot be attached to seed and its proper preparation, as no matter how well we prepare the seed bed, or how we manage the time or method of planting, unless every kernel is of the highest vitality and is capable of producing a strong and vigorous plant, we cannot expect a bumper crop of oats.

We believe that the principles here enunciated apply throughout practically the entire corn belt. The right kind of seed is just as important in one locality as another, and slipshod methods of preparing the seed bed are entitled to just about the same degree of condemnation in all states of the central West. Heavy grain will always outyield light grain, for the simple reason that the crop starts stronger and under corn-belt conditions a good start is half the battle. The practice of drilling has come to stay because it simply means that the seed

is distributed evenly and covered uniformly. It is just as important that we get a "stand" in a field of small grain, as it is in the case of corn.

GIVE THE BOY A CHANCE.

The thirteen-year-old son of a Wisconsin subscriber writes an interesting letter regarding his Christmas experiences. In the course of his communication he says:

I wanted to get a sled to go coasting, but papa said I had no time. He said if I had a sled I would neglect my work. I have eleven cows to feed mornings and evenings and I have to help my brother pump water. We are having two weeks' vacation at our school. Last week I hauled poles and sawed firewood with my brother, who is two years older than I am. This week I am going to haul logs to the mill. I like to work with the horses. I think when I get big I'll be a farmer like my father. A farmer is always busy, but he is his own boss.

A boy who has to do the work this boy does and who registers no more strenuous kick because he is denied the joys of other boys is made of the right sort of stuff. He does not need any intervention or defense, but his letter may well be made the text for a brief discussion of a boy's work on the farm. Because this boy declares his intention to remain a farmer, notwithstanding he cannot have the pleasures of most city boys, is no reason why other farm boys of less stability of character and mental soundness will prove so docile and far-seeing when smarting from the inevitable disappointment of hope deferred.

The father of this Wisconsin boy might profit by reading Mark Twain's story of Tom Sawyer. It will be recalled by those who have read the book that Tom was sent to whitewash a fence on the very day when he desired, above all things, to go fishing. His playmates came by to taunt him over his misfortune. But Tom was made of the right stuff and instead of moping and holding himself up to the public as a martyr to hard work and stern discipline, he quickly decided he would make a virtue of necessity and arouse longing in the breasts of the other boys. Accordingly, he set to work whitewashing with a whistle and a hurrah, playing train as he ran the brush over the boards and seeming to get so much enjoyment out of the work that it was not long until every playmate who had come to taunt remained to whitewash. So eager were they for turns that Tom actually sold out his job for innumerable boyish treasures and basked in the shade while his playmates did the whitewashing and imagined they were having the time of their lives.

The Wisconsin father might well have bought his son a sled and gotten more work out of the boy by infusing an element of play into hauling the food for the cows, the milk cans, the wood for the box and the innumerable things which need moving about a farm. It is a foregone conclusion that the boy could have taken time and opportunity to enjoy a few slides and coasts while he went about his work, that the father could have had more work from the boy and that everybody would have been better contented.

The great problem of the farm is to keep the boys and girls on it. They see city boys and girls having an easier time and come to believe that city children do not have as many chores to perform or as much hard work to do, that they have more pleasures and more opportunities to gratify the natural longing of childhood. If farm parents would exercise more tact this erroneous impression could easily be dispelled. There is not a city boy but would gladly exchange his life and lot for the privilege of riding a horse to water, of driving in the cows, of roaming the snowy fields in search of rabbits. There is not a city girl but would exchange her doll for a chick, her treasured playthings for the flowers of the field, a tumble in the hay, a Shetland pony. If the truth were known, there are more chances for childish pleasures on the farm than in the city. The trouble is these childish pleasures are too often denied on the farm. A little more liberty, a trifle more leeway, might result in less envy of city cousins less turning to city pavements, less heart-burning for parents and less misery for the transplanted farm folks. Give the farm boys and the farm girls a chance at being young while they are young; they are far

TUBERCULIN CANNOT INTRODUCE DISEASE.

Not a little of the opposition to the tuberculin test has come from men who seemed to be laboring under the idea that the injection of tuberculin into the animal would or might introduce the disease. Dr. C. H. Stange, of the Iowa Agricultural College, in a recent bulletin upon the subject of Tuberculosis and its Detection plainly describes the process by which tuberculin is prepared. His description, which we are appending, shows how impossible it would be to spread the disease by the application of the test:

The chief use to which tuberculin is now put is the diagnosis of tuberculosis in cattle. That it is perfectly harmless to healthy cattle is proven by its method of preparation, which is as follows: Bouillon is prepared with beef or veal infusion containing 4 per cent to 6 per cent of glycerin. This is placed in flasks and sterilized (heated to a temperature sufficient to kill all living organisms). It is then inoculated with a pure culture of the tubercle bacillus and kept in an incubator at 98 degrees F. In the course of a few weeks the tubercle bacilli will have formed a coarse granular scum on the surface. The contents of the flask is now poured into a porcelain dish and heated until evaporation reduces it to one-tenth its volume. It is then filtered through a porcelain filter. The liquid passing through the filter constitutes tuberculin. The heat employed to concentrate the fluid before filtering is sufficient to kill all bacilli. The porcelain filter removes all the dead bacilli. Consequently tuberculin is the bouillon in which the tubercle bacillus has been grown. It contains the toxic material produced by its growth, but this has been raised to a boiling temperature, destroying all germ life, and the dead germs have been removed by filtration.

From the above description of the preparation of tuberculin it is apparent that it is impossible for tuberculin to produce tuberculosis or any other disease. The injection of a small quantity of tuberculin into animals which are affected with the disease will produce what is commonly termed the tuberculin reaction.

The writer knows one man who has made a practice of testing for the last thirteen or fourteen years and in that time has only found one or two cases of tuberculosis in his herd. His experience and that of many others all attest to the merit of tuberculin as a diagnosing agent and clearly demonstrate the fallacy of the supposition that its use may introduce the disease.

FARMERS HEARTILY APPROVE.

That the Red Letter Subscription Offer of The Homestead is being appreciated is evidenced by the hundreds of letters which come into the office every day containing remittances and words of approval. "I appreciate your selection of high-grade papers," writes one farmer, who has had the problem to grapple with himself and knows how important and how difficult it is to select the year's reading matter so that only the very best shall be had and not a single pernicious or misleading sentence be allowed to enter the mind. "I take thirteen papers and magazines and I would rather give you the twelve and get The Homestead," writes another farmer who by long experience has learned that here is one paper which he cannot do without. Hundreds of other letters are of similar nature and show that the publisher of The Homestead in setting himself the task of picking out the six best papers for the coming year took on himself a responsibility the importance of which cannot be overestimated. He prides himself on the fact that his selection is meeting with the general, genuine approval of the farmers of the grain belt. The list is as follows: The Homestead, The Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. Each one of these periodicals is a high-grade leader in its respective field and the combination makes an encyclopedia of current information and practical advice which cannot be equaled. If you remit \$1.50 to The Homestead, Des Moines, Iowa, all six of these papers will be sent you one entire year.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

No doubt more than one reader is now discussing in his mind whether or not it would be best to kill those shoats or sell them and "buy a little meat next summer." The trouble will be, if they are sold, the meat bought next summer will be mighty little.

My friend, Henry Hatch, tries to go my straw-hauling-over-rough-roads job one better with his job of digging out frost-bound, ice-covered corn shocks. He might have made it still worse by hauling the shocks from the field, when finally loaded, on broad wheels and through snow that had just softened enough to "ball up." If anything inspires the "awful use of awful language" it is to have snow roll into great balls on the face of broad tires.

One of my neighbors loaded his spreader with manure at the barn late one evening, and as it was then past regular chore time, he unhitched and hitched to his load again in the morning. The meanness of Jack Frost was forgotten until too late. Upon throwing the machine in gear, the apron chains broke in several places at once. Frost had caked the bottom of his load solid.

I would like to again direct the attention of our readers to the Red Letter Combination that is being offered at this time. It includes The Homestead, The Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. The price of these six papers is \$1.50. I believe it would be impossible to name another combination of papers of such merit that could be obtained at so low a figure.

The tank heater would have been a very useful article to have had all through December. It will likely be of almost daily use through January,

WHEN DINNER COMES. One Ought to Have a Good Appetite.

A good appetite is the best sauce. It goes a long way toward helping in the digestive process, and that is absolutely essential to health and strength.

Many persons have found that Grape-Nuts food is not only nourishing but is a great appetizer. Even children like the taste of it and grow strong and rosy from its use.

It is especially the food to make a weak stomach strong and create an appetite for dinner.


"I am 57 years old," writes a Tenn. grandmother, "and have had a weak stomach from childhood. By great care as to my diet I enjoyed a reasonable degree of health, but never found anything to equal Grape-Nuts as a standby."

"When I have no appetite for breakfast and just eat to keep up my strength, I take 4 teaspoonfuls of Grape-Nuts with good, rich milk, and when dinner comes I am hungry. While if I go without any breakfast I never feel like eating dinner. Grape-Nuts for breakfast seems to make a healthy appetite for dinner."

"My little 13-months-old grandson had been very sick with stomach trouble during the past summer, and finally we put him on Grape-Nuts. Now he is growing plump and well. When asked if he wants his nurse of Grape-Nuts, he brightens up and points to the cupboard. He was no trouble to wean at all—thanks to Grape-Nuts." Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

"ROCKFORD" Engines
ALL STYLES FROM 3 TO 30-H.P.
Before you contract or buy a gasoline engine, write for the "ROCKFORD" Proposition and free catalog.
Address Dept. 47
Rockford Engine Works
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February and perhaps many days of March. It takes very little more time to "fire up" than it takes to chop and fork out the ice when the heater is not in use, besides providing decent water for the stock to drink. Chopping ice in a galvanized iron tank is often a dangerous operation—for the tank.

I do not milk a great number of cows, but stable them, and the manure they make over night makes one of us tired of the chore before it is cleaned out each day. Why some of the dairymen, stabling twenty or more cows, get along without a litter carrier is more than I can understand. Perhaps they do not realize the saving in time and labor.

Everything nowadays is called auto. There are auto-loading shotguns, auto-feeding hay presses and auto buggies. There are also a lot of grain raising farmers who "auto" keep more stock than they do. They sell their grain, and a portion of their farm goes to market with each load.

I don't know just how high in price hay will be by the time grass comes in the spring, but I think it will be high enough to make me feel very much pleased over the fact that I have enough to carry me through. Did you ever notice how a steer makes a hog of himself when hay is worth \$10 or \$12 per ton?

The year 1909 was a notable one in many respects. The average selling price of both cattle and hogs at the central markets was higher on the average for 1909 than ever before in this country. I am very glad to say that I enjoyed some of the benefits of the high prices and I hope that every subscriber was in the same boat.

I am getting to be a greater crank than ever on the importance of breaking pure-bred calves to lead while they are young. This applies particularly to bulls. Last week I put a halter on a six-months-old bull for the first time and am not over the jerking he gave me yet. After this they are going to be haltered when they are about a month old.

Now is the time to select your seed corn if you did not do so in September. Find a farmer who did select it then and buy your seed of him as soon as you possibly can. Buy it now.

I never remember a time when there was so much corn still in the field as there was on the first day of January this year and I do not recall a time when my hands got colder and my clothes wetter in my effort to get the crop in the crib. I got all in but about 1,500 bushels, which will be just enough to get one's muscles tough in the spring before starting work.

Rhode Island is a small state, but there is nothing small about the Rhode Island cow which has just finished a fancy record of 1,100 pounds of Guernsey butter in one year. Upon one occasion her milk tested 9.3 per cent fat. I venture to say it bore no resemblance to that which we had served to us at the state fair lunch tent.

Another subscriber comes forward with the description of a fairly good ear of corn that he has recently selected from his 1909 crop. It is eleven and one-half inches long, eight and one-quarter inches in circumference and weighs one and one-half pounds after drying out two months. It produced 1,074 grains. There would be enough corn on that ear to make almost a life-size Johnny cake.

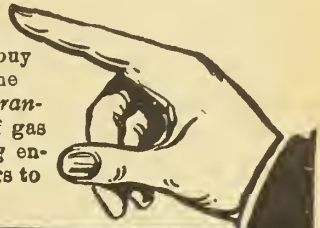
Hogging down corn with two feet of snow on the ground is not a thing to get enthusiastic over.

There is nothing raised on the farm that will bring surer returns than a hundred bushels of seed corn corded up in the attic where it won't freeze much and where the mice can't get at it. It is \$2 per bushel three years



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It contains some valuable information no other makers have ever published. Tells the truth about saving money when you buy a gasoline engine. Tells the reasons why

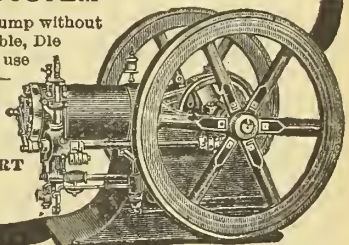
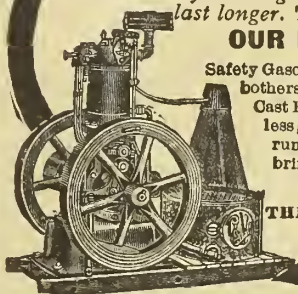
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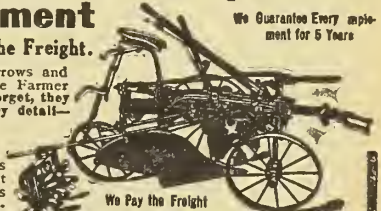
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We Pay the Freight
American Plow Co. 2315 Fair Oaks Ave., Madison, Wis.

out of five. If there are mice, put the corn on little platforms high enough so that old Tabby can circulate around the corn.

Hogs will eat a lot of rough feed if they can get it. I once heard an old farmer tell about wintering thirty pigs on prairie hay. A bystander remarked that "he should think they would starve on such feed." "Starve?" said the old man; "why, man alive, they would squeal for it!"

A Welshman was bragging on what fine dairy cows they have in Wales. "Why," said he, "the cream is so heavy that it always sinks to the bottom of the pan."

There are a great many things that help in getting and maintaining a good stand of corn, but perfect seed is absolutely necessary and for that reason it will be necessary for all of us to test every ear of our seed and urge our neighbors to do the same.

The striking switchmen who are holding up the freight traffic in the Northwest were getting over \$3 per eight-hour day according to newspaper reports. If this is true we better all strike.

It looks as though the lads of today will have the pleasure of telling some future generation of the terrible winter of 1909-10, especially if they are pretty good at throwing in a few extras for good measure.

Many of the first explorers who came to this country spent their lives and fortunes in hunting for gold and other riches that they could get quickly and easily, only to fail miserably. Perhaps it is the same spirit that causes so many promising young men to leave the farm and try to make

their fortune in the already overcrowded city and fail in much the same way.

The successful farmer is the one who is able to raise good crops and to feed them right and also to be able to market his produce to the best advantage, but unless he is able to spend his money so as to bring the comforts of a good home to himself and his family he is still one of the most unsuccessful men in the world.

State Drainage Meeting.

The 1910 annual meeting of the Iowa State Drainage Association will be held in Fort Dodge, February 15th and 16th. Men who are thoroughly posted on drainage subjects will speak. The program will be more varied and more interesting this year than that of any former meeting. Among the prominent speakers are Prof. A. Marston, Mr. E. O. Rood, Prof. W. H. Stevenson, Hon. Henry Young, Mr. J. Z. Adams and Prof. J. T. Stewart; other well-known drainage experts will discuss problems of great interest to all who have to do with the drainage of the wet land of Iowa. A strong feature of the meeting will be a series of talks by several of the best-posted county supervisors in northern Iowa. In addition the subject of financing drainage districts will be handled by men who know all of the ins and outs of this important phase of the drainage problem.

When a man dips his pen in tears and writes an obituary notice over hopes that have turned to dead sea ashes, it takes divine inspiration to enable him to weave cheerfulness in the lines, and beg a chew of tobacco at the same time without letting his voice tremble.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

THE PRESIDENT ON CONSERVATION.

The farmer has a personal interest in President Taft's message to congress on the conservation of natural resources. He has had a patriotic, non-partisan interest in the president's former messages, but this latest one deals with his own personal affairs. He cannot but rejoice that the president has shown himself so heartily in sympathy with the Roosevelt policy of conservation and so determined to bring about a system which will save and yet utilize, which will conserve and yet develop, for, as President Taft so pointedly remarks, "no sane person can contend that it is for the common good that nature's blessings are only for unborn generations."

In conserving natural resources the president wants it clearly understood that they are to be utilized as needed at present, but that they are not to be wasted or monopolized. For instance, the immensely valuable deposits of phosphate are not being called upon today in anything like the manner they will be called upon in the next two or three decades when agricultural lands have become depleted from constant tillage and fertilizing elements will be needed. President Taft points out in his message that these phosphate beds must be saved to the farmers of the future. But the farmers' interests do not stop with this. There is soil conservation to be thought of. In discussing this most important

phase of the general subject, President Taft says:

In considering the conservation of the natural resources of the country, the feature that transcends all other, including woods, waters, minerals, is the soil of the country. It is incumbent upon the government to foster by all available means the resources of the country that produce the food of the people. To this end the conservation of the soils of the country should be cared for with all means at the government's disposal. Their productive powers should have the attention of our scientists that we may conserve the new soils, improve the old soils, drain wet soils, ditch swamp soils, levee river overflow soils, grow trees on thin soils, pasture hillside soils, rotate crops on all soils, discover methods for cropping dry land soils, find grasses and legumes for all soils, feed grain and mill feeds on the farms where they originate, that the soils from which they come be enriched. A work of the utmost importance to inform and instruct the public on this chief branch of the conservation of our resources is being carried on successfully in the department of agriculture, but it ought not to escape public attention that state action in addition to that of the department of agriculture (as, for instance, in the drainage of swamp lands,) is essential to the best treatment of the soils in the manner above indicated.

No one can read this extract and fail to be convinced that the president has the agricultural interests of America very close to his heart. If any doubt remained, it is dispelled by the president's recommendation that congress provide for an issuance of bonds, not exceeding \$30,000,000, the proceeds to be applied to the completion of reclamation projects already begun and their proper extension. The president makes this recommendation not simply because he believes in the reclamation work, but because thousands of settlers have been invited to take up (and in many instances have taken up) public lands within the reclamation projects, relying upon their prompt completion, but the department has been hampered by the loss of funds and has not been able to give these settlers arable land and necessary water within the time expected. This failure, as President Taft points out, "is in effect a breach of faith and leaves the settlers in a most distressed condition. I urge that the nation ought to afford the means to lift them out of the very desperate condition in which they now are." Is this not conclusive proof that the interests of the homesteaders are being looked after as thoroughly as the interests of the farmers "back home?"

This latest message of President Taft is one of the most practical he has yet submitted to congress. It deals with vital problems in a dignified, masterly manner. Without regard to politics or factions, farmers should rejoice that the chief executive understands so well their problems and needs and is so determined to protect their interests.

SIX SPLENDID PAPERS.

Home Life is a magazine which deals with every interest and problem of home life. It is printed on high-grade paper and splendidly illustrated. Rev. Dr. Frank W. Gunsaulus is a regular contributor. Dr. Gunsaulus is probably the greatest pulpit orator in America and is as good a writer as he is a speaker. Home Life is simply one of the six magazines contained in the Red Letter Subscription Offer of this paper. The offer is this: Remit \$1.50 to The Homestead, Des Moines, Iowa, and the following six papers will be sent you one entire year: The Homestead, The Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. The regular price of these six papers is \$3 a year. You get them at exactly half price.

And now it is an Illinois farmer who presents the country with an almost cobless corn. Perhaps the time is coming when the diner munching corn will not have to wrestle with the cob, and rising generations will bless the man who eliminated it. The new corn is described as having each kernel growing on the parent stem instead of adhering to a cob. The Illinois grower says that he eliminated the cob by taking the tip of each ear and getting only the very top kernels, and shortly expects to evolve a perfectly cobless corn. The agricultural college of that state is looking after the experiment. Of course, like all improvements, there are some disapprovers who remark: "Where would be the delight of munching corn if there were no cob on which to sharpen the teeth?"

IMPERIAL DRILL

Horse-Lift Drills Decrease Work

Mr. S. B. Pierson, Ottumwa, Iowa, who uses the Horse-Lift, will gladly give you any information you ask for. Here's what he says in part: "Under no circumstances buy a drill without a HORSE-LIFT. The long, zigzag arrangement of discs makes it possible to work in corn stalks or other trashy ground successfully."

Only used two horses on a 12-disc 7-inch drill—easily sowed 10 to 12 acres per day—no question about the light draft."

We have many letters from other Iowa farmers who are as highly pleased with the IMPERIAL.

SAVES YOUR BACK

Instead of stooping and lifting at every turn, the horses do the lifting. Keep on driving. No need to stop at the turns. This Horse-Lift saves you many a backache, saves lots of time, but it costs you nothing. It's free with the IMPERIAL. The IMPERIAL is durably made of best materials. Write today for interesting booklet fully illustrated in five colors.

LA CROSSE PLOW CO. Dept. M La Crosse, Wis.



This is the Mower that's Easy on the Team

Even with a seven or eight-foot cutter-bar, it is as easy work for your horses as plowing corn. It is the only mower that carries the entire weight of machine, cutter-bar and driver, on the drive wheels. We've taken the weight off the horses' necks—taken the weight off the outside as well as the inside shoe—there's no sledding or dragging. The pull is all on the wheels, and it's a straight pull forward.

READ OUR MOWER BOOK

and see all the reasons why this New Standard Mower is easier on the horses, easier on the operator, and works and wears better than others. Emerson New Standard Mowers are the result of 28 years' building experience. Look into the quality of the Emerson—then buy on your own judgement. Send for catalog. Also ask about our own famous Foot-lift and Engine Plows.

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We also manufacture the Celebrated Emerson Plows, Harrows, Listers, Planters, Cultivators, Rakes, Etc. Mention which machines you are interested in. Send postal today.

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At One-Tenth The Cost



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Elkhart Buggies

are the best made, best grade and easiest riding buggies on earth for the money.

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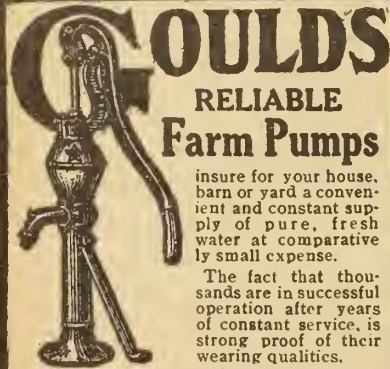
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GOULDS RELIABLE Farm Pumps

insure for your house, barn or yard a convenient and constant supply of pure, fresh water at comparative small expense.

The fact that thousands are in successful operation after years of constant service, is strong proof of their wearing qualities.

We make many different styles and sizes—a pump for every purpose. Avoid cheap imitations. See that the name "Goulds" is cast on the pump. It guarantees reliability. Let us send you our handsomely illustrated book—

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It covers completely the subject of fresh water supply for all purposes and how best to obtain it. It fully explains the difference between pumps and the adaptability of each type to varying conditions. If you will explain your situation, we will tell you what is best to do in your case.

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No. 96 W. Fall St., Seneca Falls, N. Y.



15,000 BU. EAR CORN

Ground very fine with one set of Rollers and Concaves used in the

"BULL DOG"

Grinds all grain perfectly fine and is very light-running, because all work is done only 1 1/4 inches from center of shafts. Sizes, 2 to 50 h. p. Get our catalog.

CROWN POINT MFG. CO.
123 E. Road, Crown Point, Ind.

DRY BATTERIES—renewed by anyone for 10 to 25c per Doz. Good as new. Formula St. Will send it this week for 35c. FAIRMONT TEL. CO., Leightons Corners, N. H.

A Wonderful Business Story

We have told in a book---which we ask you to send for---one of the greatest business stories ever told. A story of how John N. Willys stepped in two years to the topmost place in motordom. Of how *Overland* automobiles rose in 24 months to this year's sale of \$24,000,000. How a factory has grown like magic to a pay roll of 4,000 men---to a daily output of 30 carloads of automobiles. And how a large part of the demand of the country has been centered around one remarkable car.

The Discovery

Here is an outline of the story---just enough to make you want it all.

Two years ago, Mr. John N. Willys was a dealer in automobiles. There came to him one day a remarkable car---evidently the creation of a mechanical genius. The simplest, sturdiest, smoothest-running car that anyone around there had seen.

The name of the car was the Overland. And the price---then, \$1,250---was as amazing as the car itself.

The sale of this car spread like wildfire. Each car sold brought a call for twenty others like it. Old and new motor car owners came by the score to deposit advance money---attracted by the Overland's matchless simplicity.

But the cars did not come. And when Mr. Willys went to the makers he found them on the verge of receivership.

The genius which had created this marvelous car could not finance the making in the face of the 1907 panic.

The NEW START

Mr. Willys in some way met the overdue pay roll---took over the plant---and contrived to fill his customers' orders.

Then the cry came for more cars from every place where an Overland had been sold. As the new cars went out the demand became overwhelming. The factory capacity was outgrown in short order. Then tents were erected.

Another factory was acquired, then another; but the demand soon outgrew all three.

During the next fiscal year these factories sent out 4,075 Overland cars. Yet the demand was not half supplied.

Dealers fairly fought for preference. Buyers paid premiums. None could be content with a lesser car when he once saw the Overland.

All this without advertising. About the only advertising the car ever had was what users told others.

The Pope-Toledo Plant

Mr. Willys' next step was to buy the Pope-Toledo factory---one of the greatest automobile plants in the country. This gave him four well-equipped factories---just sixteen months from his start.

But the Toledo plant wasn't sufficient. So he gave his builders just forty days to complete an addition larger than the original factory.

Then he equipped these buildings with the most modern machinery---with every conceivable help and convenience---so that cars could be built here for less than anywhere else.

Now 4,000 men work on Overland cars. The output is valued at \$140,000 per day. The contracts from dealers for this season's delivery call for 20,000 cars.

Now this man has acquired twenty-three acres around his Toledo plant. And his purpose is to see---from this time on---that those who want Overlands get them.

Marvelous Sales

Dealers had ordered 16,000 of the 1910 Overland models before the first car was delivered. That means that each Overland sold the previous year had sold four others like it.

And without any advertising.

This year's Overland sales will exceed \$24,000,000. Yet the Overland is but two years old.

The \$1,000 Overland

This year an Overland---better than last year's \$1,250 car---is being sold for \$1,000. That is because the tremendous production has cut the cost 20 per cent.

A 25 horsepower car, capable of 50 miles an hour, for \$1,000, complete with lamps and magneto. Never did a maker give nearly so much for the money.

There are higher-powered Overlands for \$1,250---\$1,400---\$1,500. They are just as cheap in comparison as the \$1,000 model.

The Overlands are unique in simplicity. They operate by pedal control. A ten-year-old child can master the car in a moment.

They are made in the same factory, and by the same man as made the Pope-Toledo---a \$4,250 car. The reason for the price lies in the production of 125 cars per day.

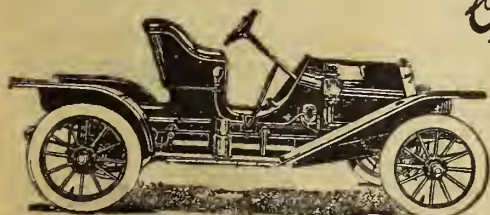
Get the Whole Story

Send me this coupon to get the whole story, told in a fascinating book. Learn about the car which in two years captured so large a part of the whole trade of the country. See what has done this---what there is in the Overland to make it the most desired car in existence. Please cut out this coupon now.

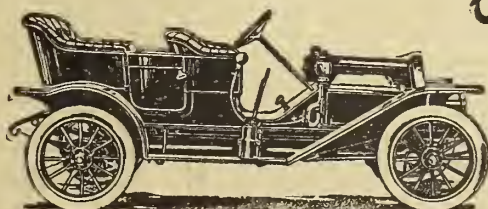
F. A. Barker, Sales Manager,
The Willys-Overland Company
Toledo, Ohio

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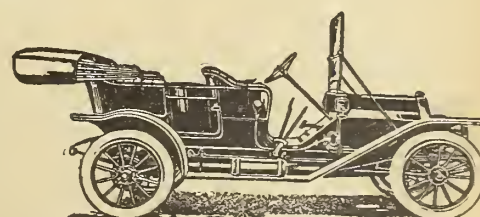
Please send me the book.



Overland Model 38---Price \$1,000. 25 H. P.---102-inch wheel base. Made also with single rumble seat, double rumble seat and Toy Tonneau at slightly additional cost.



Overland Model 41---Price, \$1,400
40 H. P.---112-in. Wheel Base---5 Passengers.



Overland Model 42---Price \$1,500
Either Touring Car or Close-Coupled Body Top, glass front and gas tank are extras.

All Prices Include Magneto and Full Lamp Equipment.

Members of Association Licensed Automobile Manufacturers, Licensed Under Selden Patent.

PROFITS IN APPLE ORCHARDS



Splendid Returns from Orchards, but the Apple Yield of the United States is not Nearly so Large as a Few Years Ago---An Industry Which Seems to be Waning, Notwithstanding the Big Money to be Earned Therein---Some Instances of Large Profits Reported by Orchardists



WHILE the profits of apple raising are so large as to astound those who have not kept posted on the industry in recent years, the fact remains that fewer apples are being raised today than in years gone by, although the demand for good apples is larger than ever before.

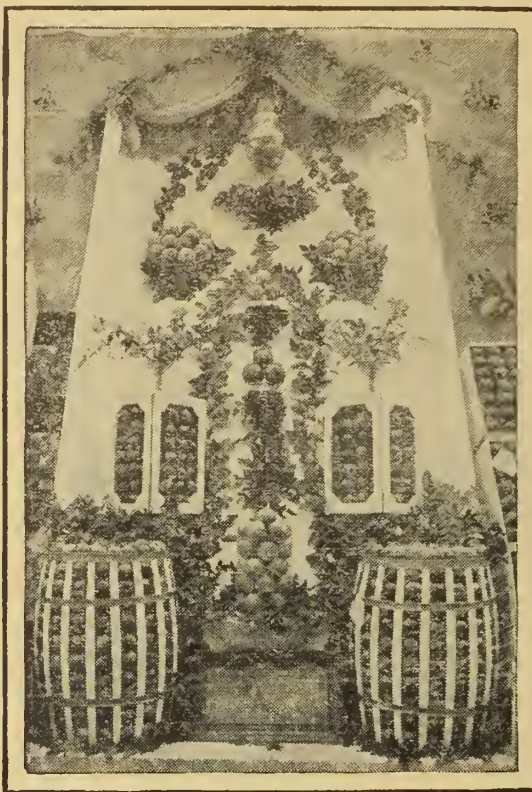
How profitable the apple industry is may be briefly stated. One orchardist reported for the 1909 season that twenty trees of Snow apples yielded 712 boxes, or more than thirty-five boxes to the tree. The apples sold at \$1.50 a box, the twenty trees in one season returning more than \$1,050. The son of a western orchardist, who owns one row of trees in his father's orchard, paid his year's college expenses from the returns of his row of trees and at the end of the year had a balance left in the bank. The row yielded 500 boxes of apples, which sold at \$1.60 a box. It is needless to add that the row was well cultivated, careful attention being paid to all the details of scientific orcharding. Spraying the trees twice a year and keeping the ground clear of weeds is the recipe that a Missouri orchardist used to raise a large crop the past year. In this orchard are twenty-five acres, three-fourths in the Ben Davis variety and the remainder in York Imperial and Jonathan apples. The year's crop was about 3,600 bushels, which brought \$1,980 at fifty-five cents a bushel, an average of \$80 an acre. Far more profitable acres are reported by orchardists who have brought their trees to a high state of cultivation and by making a specialty of the finer varieties and grades have reaped a harvest of several hundred dollars from an acre.

Yet the fact remains that these splendid profits have not popularized apple growing to the extent of offsetting desertions from the ranks of orchardists. Commercial statistics gathered from reliable sources show that the annual production of this delicious and most hygienic of fruits is, apparently, becoming less in proportion to consumption each year, and has actually been less in the aggregate the last few years than formerly. The figures since 1895 are as follows:

Year	Barrels
1895	60,453,000
1896	69,070,000
1897	41,536,000
1898	28,570,000
1899	58,466,000
1900	56,820,000
1901	26,970,000
1902	46,625,000
1903	46,626,000
1904	45,360,000
1905	24,310,000
1906	38,280,000
1907	28,690,000
1908	23,025,000
1909	27,000,000

It will be observed that in four of the last five years production has been below 30,000,000 barrels. When the production of the whole country amounts to only one-half to two-thirds of the acreage ability, it indicates something to be wrong. Diseased orchards, exhausted soil, unsuitable locations, climatic conditions and neglect may be accountable.

Statistics are dry, but apple pies are not and some genius has figured out that if the apples harvested from the commercial orchards of the United States in 1909 were converted into pies the army of bakers needed to do the work would turn out 6,250,000,000 pies, which placed side by side would make a path of almost 975,000 miles, enough to girdle the earth thirty-nine times. The total weight of this mountain of pastry is estimated at 9,250,000,000 pounds, including the 6,125,000,000 pounds of flour, lard and other ingredients. America is practically the only country which does not import apples. It never has done so. On the other hand, however, the exports have been small, amounting in 1902 to 2,800,000 barrels, in 1906 to 5,800,000 and in 1907 to 7,800,000. In 1908, for the first time, one American orchardist shipped his entire yield to Australia, while exhibit after exhibit at the National Show at Spokane, Wash., was packed for export, Belgium, Holland, Germany and France being good markets, clamoring for larger shipments each year. One peculiarity of the export market is that while the red apple is preferred in continental Europe, the yellow or green is the favorite in England. "The English taste in ap-



A TASTY APPLE DISPLAY AT THE NATIONAL APPLE SHOW HELD IN SPOKANE, WASH.

ples is peculiar," declares one exporter, who furnishes a half million barrels of American-grown apples each year to England and Scotland. "The average Englishman wants an apple that is hard and that will give a report that can be heard a block when he bites into it, together with a tart flavor. The English people have been educated to the use of a light-colored apple and, while they will consume the red varieties, these are kept in this country mainly and such product as the Newton Pippins continues to be the prime favorite in England."

How the apple export trade may be developed is told by Prof. John Craig, of Cornell University, as follows:

"I was in Europe for some eight months in 1907 and visited a number of the big apple exchanges, both on the continent and in England. In my travels I found there are practically no commercial apple orchards in that vast territory, though there are a large number of small orchards on the farms, but these do not begin to supply any of the large markets. The largest orchards are in England, with France a close second, while nearly all of the farms in Germany have small orchards for the farm use.

"The apple trade abroad at this time seems to demand a good grade, while the quality of the product is overlooked. To put the product of

America on the European market we need men abroad to reach the interiors of the countries, as I find that there are very few samples of the American product to be found there. Men should be at the exchanges to look after the distribution of the apples, so as to see that they are not all taken to one place by one man. Men also are needed in these centers to educate the people to buy for quality rather than grade, which will create a market for the best product of our orchards."

In regard to the remote danger of overproduction, the following, from an excellent authority on the subject of apple cultivation, covers the ground:

"Fifty years ago the pessimistic wail was going up that the apple business would soon be overdone and would cease to be profitable. At that time not more than one-tenth as many apples were raised for commercial purposes in the United States as are raised today. And yet more money has been made in growing apples during the past decade than in any like period since the Mayflower landed its cargo of living freight on New England's stern and rock-bound coast."

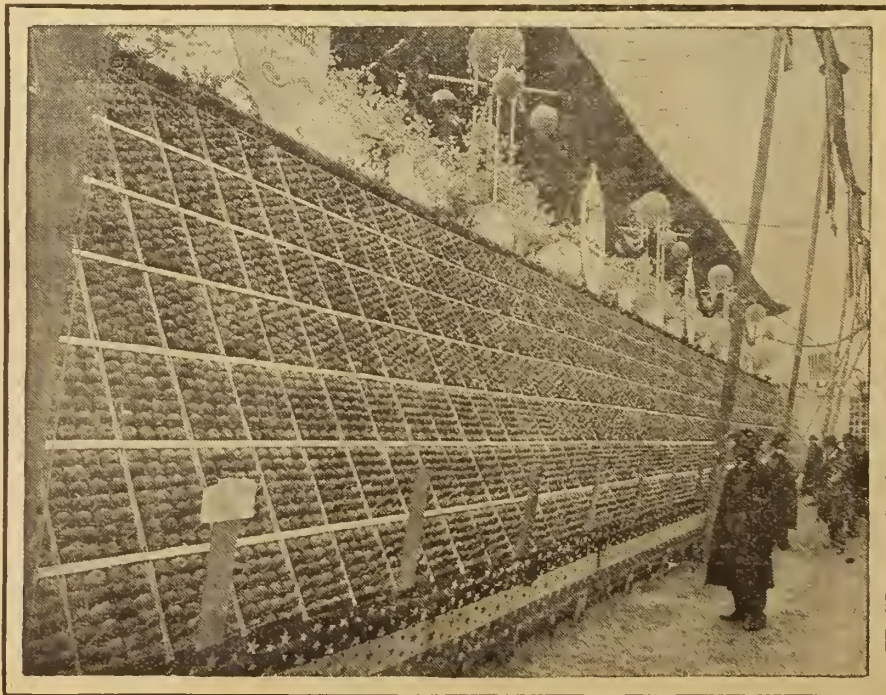
"One hundred years ago apples were but little raised for commercial purposes. No great commercial orchards were in existence. Now trainloads and shiploads move from American orchards to our great centers of trade and across the ocean to England and other parts of Europe. Asia is calling for our apples and getting some, but not a tithe of what will go there in the near future. Even Australia is taking thousands of boxes of our best apples and is calling for more.

"Our highest grade of American apples cannot be duplicated on the face of the earth, so we have the world for a market for our best apples. Our railroads and steamship lines are ready and glad to take our fruits to the ends of the earth. The person then who looks for this business to speedily become unprofitable does not understand the situation. The 'calamity howler' may scare some people, but not the intelligent fruit grower who understands the situation."

There is a large and growing demand for American apples in Germany, shipments for all that country being made through the wholesale importers at Hamburg. The apples are then disposed of by auction after careful inspection and sampling. Only first-class fruit free from San Jose scale is accepted. The varieties generally imported by the Germans are the Baldwin, Pippin, Greening, Spy, King, Ben Davis, Jonathan and Winesap. The apples bring good prices. In the Rhine region American apples are sold at fifteen to twenty-four cents a pound. Russia indicates a growing liking for American dried fruits on account of their fine appearance and good keeping qualities.

The apple crop in the Northwest in 1909 was shorter than at any time in the last five years, but the growers received more money for their fruit than in either 1908 or 1907. They also received more than the growers packing their apples in barrels, as is evidenced by reports from Boston, New York and Chicago, showing winter apples in barrels selling at from \$3 to \$6 a barrel, wholesale, while boxed apples are quoted at from \$2.50 to \$5, extra fancy selling as high as \$7.50 a box.

Several thousand boxes of apples exhibited at the Second National Apple Show in Spokane last fall sold at from \$3.50 to \$10 a box, James J. Hill buying 100 boxes at the last named figure. The Spokane Apple Show adopted resolutions intended to foster the industry, the following being the most important: "First, that our apples be packed in three grades. Second, that the said grades be named 'extra fancy,' 'choice' and 'orchard run.' Third, that where the words 'extra fancy' are stamped on the box it shall signify that the apples when packed were sound, uniformly graded as to size in each box, smooth, practically free from bruises, worms, worm stings or disease and have reasonably proper shape for the variety, fully matured. All red varieties in this grade shall be at least 50 per cent red, except Spitzenburg, Winesap, Jonathan and Arkansas Black, which shall be at least 70 per cent red. Yellow Newtowns, White Winter Pearmains, Grimes Golden, Bellflowers, Ortleys, Winter Bananas and Red Cheek Pippins will be allowed in this grade. Fourth, the 'choice' grade shall consist of apples sound, uniformly graded as to size in each box, free from any breaks in the skin or black bruises, also free from worms or



MILLIONS OF APPLES, WITH THOUSANDS OF DOLLARS OF PROFITS, AT THE SPOKANE SHOW.

YOUNG'S "UNO" SELF-CONFORMING HORSE COLLARS

Self-conforming, because they have a heavy facing of Young's self-conforming mixture, which adjusts itself to every hollow, and irregularity of the shoulder—fitting perfectly every shoulder—preventing sores and galls.



The Uno Trade mark means perfect fit, long and satisfactory use. The heavy facing of Young's self-conforming mixture is backed by selected long rye straw—they have heavy sole leather top pads, double strength throats, giving extra strength where other collars are especially weak—are made only of bark tanned leather from best part of hide—have strong rims and perfect hame room. Prevent sore shoulders, save time, trouble, money. \$3.75 to \$5.00.

BRIDLE ROSETTES FREE

Send us the name of a dealer who does not handle Uno Horse Collars and we will send you a pair of beautiful nickel embossed bridle rosettes absolutely free.

BENJAMIN YOUNG

Dept. 55 Milwaukee, Wis.

any disease which materially injures the quality of the apple.

"Fifth, where for any reason the grower or packer does not care to use the 'extra fancy' or 'choice' grades we recommend the varieties be packed in one grade, termed 'orchard run.' The apples in this grade shall be practically free from worms, or any disease which materially injures the quality of the apple, and shall not be smaller than five tier nor less than two inches in diameter."

WHAT DO THE FARMERS READ?

The business manager of a large eastern magazine recently concluded a trip through Kansas, in the course of which he inquired how many of the farmers he visited subscribed for his magazine. The result is expressed in this interview:

I have been over the greater part of Kansas and I find that the farmers don't read magazines. A farmer does not think much about paying \$1,000 for a pure-blooded bull or heifer, but when it comes to spending \$1 for a magazine or books he fusses more about it than he did when dickering for the prize bull. I would like to know why it is? They take the stock and farm papers and a daily, usually to get the market reports and general news. But they apparently do not care to take magazines where they get the best in modern thought and achievement and literature. In spite of all the advantages that the farmer has now, with the rural free delivery and modern home comforts, he leads a rather narrow life and it ought not to be. The average farmer in Kansas does not have to work much harder on the average than the man in other walks of life where actual manual labor is required. It is not hard to sell magazines and books to all classes of laboring people. They enjoy them, but the farm subscription lists to magazines are practically nothing. Why is it?

The editor of The Homestead is reminded of Mark Twain's article on "The Snakes of Iceland," the first sentence of which was, "There are no snakes in Iceland." The "why" of the magazine publisher's question is because the statement of facts which he makes is not true. His own particular magazine may not have been found in the farm homes he visited, but it is a magazine of high price, catering especially to the city business man. A dozen magazines could be mentioned which take more cognizance of the farmer and his interests, deal more directly with the problems which confront him and have a more widespread human appeal. These magazines have large circulation lists in rural districts. There is hardly a general magazine of today but contains at least one article each issue with a rural, even an agricultural, flavor. Why is this? It is simply the result of good, sound business policy. The magazine editors realize that city people are becoming more interested in farm matters, their thoughts turning longingly to the land, and the thousands of new subscribers are being secured in the country, and these new subscribers must be given articles dealing with homely, pertinent topics of interest and value to themselves.

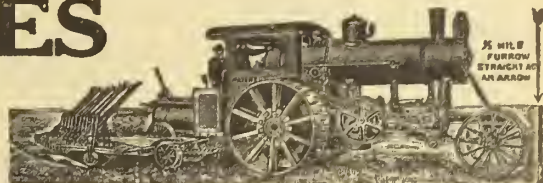
This is the view apparently held by Secretary Coburn, to whose attention the interview set out above was called. Secretary Coburn is quoted as saying:

I believe the magazine subscription lists are growing among the farmers now. It took a long time to work up the business in the cities. It will take time to work it up on the farms, but it is coming. My observation is that the Kansas farmers are reading more now than five years ago and that they are reading more than the farmers in other states.

State pride and patriotism has led Secretary Coburn to give Kansas first place, but every other state of the grain belt is progressing in this matter. Traveling libraries are coming into greater favor each year, so that where 100 books were distributed in a given time a few years ago, fully 1,000 are now distributed and read with eagerness. The days of almanac-reading on the farm have gone forever; the average farmer of today is better read and better posted than the average man of the city. The farmer keeps in closer touch with governmental affairs, notwithstanding that the daily newspapers are not so fresh when they reach him. He conscientiously endeavors to keep abreast of the times and while he has been told that there is as much culture in the study of a corn root as in the study of a Greek root he has not let himself become narrowed to the exclusion of interest in the work of other men. The average business man can talk of nothing but his own business. The average farmer knows what

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SEPARATORS AND STEAM PLOWS

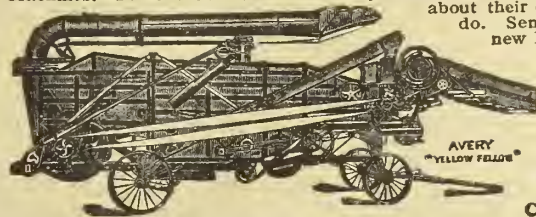


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PLOWS AND
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is being done in the world of science, literature and religion. He does not always disclose this knowledge, for the reason that he is not so superficial, even not so sociable or affable perhaps, as the city man, but he has the knowledge and it is deep and abiding and well worth while.

It is unjust to accuse the farmer of not being a reader. Where a magazine is worth his reading, where it deals with general world-wide subjects rather than those restricted subjects which appeal only to the city man of business, the farmer takes it and reads it. This is why the percentage of literacy is higher in the grain-belt states than anywhere else in America. The farmer holds the balance of power.

The Narrow Road.

To the Editor of The Homestead:

I read with much interest the article on Narrow the Roads and I heartily agree with Governor Carroll of Iowa. There are miles of road that are wider than necessary, but a damage to the farming. This unoccupied land is nothing but a weed patch. But again there are places along rivers and small streams that they could not be narrowed.

I think it would be better to give the land back to the farmers. The idea of renting the land to the farmers would result in a general mixup. I also agree with the governor in the statement that in many cases it does a road more damage than good to be everlastingly raising the grade. The best way to get a grade is to clean out the side ditches and keep them clean. Everybody is always advocating good roads, but there is not enough of them who tell how they think they ought to be made.

The only thing the general public know anything about is the King drag, but do you know that folks get tired of using it when just as they get a road nice and smooth a rain comes and the teams cut it all up again. To prevent the roads from getting muddy there is nothing that will stop it but to haul sand or gravel along the center of the road. If this is clean and has not enough clay or black dirt in it to make a binding, put about one load of black loam or clay to every four, then take a disk harrow and drag and give it a good mixing up. I do not know why it is, but sand will do a road more good than gravel, and yet they all talk gravel.

What I mean about the sand and King drag, when the right amount is placed on the road and mixed it will not get muddy so as to cut up into ruts, then it is of some comfort to

use the drag. It is a fact that everyone thinks he knows how to make roads, but some of these same parties will make the roads worse instead of better. Sand or gravel the roads. Clean the side ditches, and put in permanent bridges and culverts, with concrete. C. W. Overturf.

Iowa.

Killing Meat for Farm Use.

To the Editor of The Homestead:

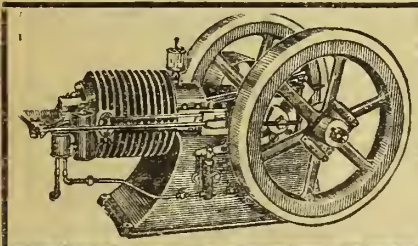
The price of hogs is now so high that more than one farmer is tempted to sell those that were being fattened for home meat, depending upon the meat market and grocery for the meat supply next summer. The other day we happened at a local shipping point and counted seven wagons loaded with from one to three hogs each, these hogs being intended to furnish the home meat supply, but at the last moment the owner weakened and hauled them to market. Nearly eight cents a pound on the hoof looked too big to refuse.

There is no telling just how high in price pork will be next summer, but it is sure to be higher than it has been at any time during the past twenty years. Farmers who are selling off all fat hogs now, however, are making it right with themselves by believing they can afford to pay high prices, since they are getting high prices for what they sell. On the other hand a great many farmers have bad luck keeping meat for summer's use. As soon as the days get warm the pork they have in curc spoils, and counting out the loss from spoiling, many farmers consider it cheaper to sell now and later become a patron, through the local dealer, of the packing house. Farmers who will not or can not master the simple art of curing meat had better do as many are now doing, sell the live hog and later buy cured meat.

Those who never have tried it will find salt beef a summer delicacy. A cow or heifer may be fattened and killed before the weather becomes too warm in the spring, all large bones taken out and the meat put down in brine. We have never had beef spoil in brine. It will keep much better than pork, and this year it will prove a cheaper meat, while it really makes a fine dish for summer use. Those who sell their hogs had better try putting down at least two quarters of a beef, if there will be many at the table next summer, for the price of meat at the local market will be almost prohibitive, and this beef will help out.

Kansas.

Henry Hatch



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even from other air-cooled gasoline engines. We have no dangerous fans requiring power to run and expense to keep in repair. The Gade has no water to freeze or oil to clog. Our patented device draws fresh, cool air directly into combustion chamber, thus keeping the engine cooler than by any other method.

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"MORE POTATOES"

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WANTED Aged couple to keep house and assist single man. Good home and deal for right kind. Man must be good hand to care for stock, especially hogs. Must furnish references; would consider partnership deal in well-established herd purchased through must have \$800. Jos. Cruise, Mt. Etna, Pa.

CURRENT EVENTS

HENRY S. GRAVES, director of the Yale University school of forestry, has been appointed by President Taft to succeed Gifford Pinchot as chief forester. Albert F. Potter has been appointed associate forester. Both men are personal friends of Mr. Pinchot, served under him and are in sympathy with his policy of administration. It was largely through Mr. Pinchot's efforts that the Yale school of forestry was established, and Mr. Graves went from the post of assistant chief of the division of forestry under Mr. Pinchot to become director of the school in 1900. The appointments show that President Taft is as firm a friend of conservation as is President Roosevelt and that he does not intend to do anything to hinder or delay the work of reforestation and forest protection. His discharge of Mr. Pinchot was the deserved rebuke of an insubordinate official, not a slap at the policy of conservation.

A PICTURE which reflects the prosperity of the country and especially that of the farmer is drawn in the statement of the domestic exports for 1909, prepared by the bureau of statistics of the department of commerce and labor. Corn at seventy cents a bushel, wheat at \$1.04 a bushel and about twelve cents for every pound of cotton exported is the record for 1909. More than \$24,000,000 worth of corn and \$48,000,000 of wheat went from American ports to feed the world last year. More than \$460,000,000 worth of cotton went to foreign looms, and as these figures show only the exportations from the principal ports of trade, the detail statements will be larger. The showing is regarded by the experts as highly satisfactory. American farmers are feeding and clothing the world.

THE first aviation meet ever held in America was held in Los Angeles last week, a half dozen aeroplanes and twice as many dirigible balloons being entered. That aerial navigation is now an assured fact was proved by the ease with which flights were made, Glenn H. Curtiss, of New York, breaking the world's record for speed, driving a heavier-than-air flying machine at the rate of fifty-five miles an hour. The Frenchman, Paulhan, made several spectacular flights, but it is noticeable that while the American aerialists are less spectacular they are doing more to further the art of flying. If aerial navigation is ever made really practical it must be proved that passengers can be carried with little danger and with regularity of speed. This is more important than short, spectacular dashes. With the Wright brothers and Curtiss making their experiments, America is in the lead in practical aeronautics. The French are more dashing, but when it comes down to real, tangible results the Americans have taken the lead and are holding it.

PRACTICAL business methods are being infused into the management of towns and cities all over the United States. The movement began a few years ago in Galveston, where a commission of business men took charge of the city after it had been practically ruined by a hurricane and tidal wave. Des Moines gave the movement impetus, modifying the Galveston system somewhat, and two years' trial has proved the success of the plan. Now the list of cities which have adopted the commission form of government numbers over seventy. The old style system of a mayor and several aldermen representing respective wards has been dispensed with and in its place is substituted a system of five business men elected without regard to politics or wards, to run the city as any business man would run his private business. Boston is the latest large city to adopt the plan and last week elected its first mayor under the new system. The new mayor is a democrat, but on

the ballot appeared only the names and addresses of the candidates, no reference being made to their politics. The plan is working out well all over the country and seems in a fair way to solve the vexatious problem of municipal government.

GENERAL DIAZ, the emissary whom the leader of the Nicaraguan revolutionists sent to President Madriz to endeavor to arrange peace terms, was drowned while attempting to make a landing at Bluefields, this putting an end to the present prospects of peace in the troubled isthmus. General Diaz was a personal friend of President Madriz and it was hoped that he might bring the two factions together. The country is being devastated by the costly insurrection and neither Estrada, of the revolutionary forces, or President Madriz show any signs of making concessions. President Madriz is looked on as a Zelaya man through and through and can hardly make Nicaragua advance peacefully and harmoniously as is desired by other nations. In the meantime, Zelaya is well out of the turmoil, taking life easy in Mexico and enjoying the immense fortune which his greed and rapacity permitted him to collect while looting his country.

AN ATTEMPT of an Illinois mob to lynch a couple of negroes suspected of murdering a white rural mail carrier was frustrated by the railroad company refusing to run any trains into the town where the tragedy occurred. A mob had formed in a nearby town and proposed capturing a train and taking the law into its own hands. The railroad company was quick to see the danger and promptly co-operated with the authorities, thus saving the state of Illinois from a repetition of the disgraceful Springfield riot of a couple of years ago. Mob violence is always to be denounced, no matter how great the provocation, and all right thinking people will be glad that one blot has been spared the escutcheon of a great and rich state.

CARDINAL SATOLLI, one of the leading Catholic prelates of the world, died during the past week. He had served as apostolic delegate to this country for many years and was universally admired

for his broad mindedness and innumerable splendid traits of character. He stood high in the counsels of both Pope Leo XIII. and Pope Pius X. He was a good man in every sense of the word and in daily life, work and word exemplified the splendid spirit and character of the Christ to whom his life was dedicated.

LEW WALLACE, the author of "Ben Hur," has been honored by having a statue in his memory unveiled in Statuary Hall at the United States capitol in Washington. General Wallace was a famous soldier, statesman and writer and fully deserving of the high honor bestowed upon him. "Ben Hur" has been translated into almost every civilized language and hundreds of thousands of copies sold. People who are averse to novel reading as a general rule make an exception of this book, because of its close adherence to scriptural history and its high standard of faith and reverence. General Wallace has been dead a couple of years.

GIFFORD PINCHOT has issued a public statement in regard to his dismissal from the government service, in the course of which he makes an earnest plea for a continuance of the present conservation policy. "The first great immediate danger," says Mr. Pinchot, "is that the water power sites will be

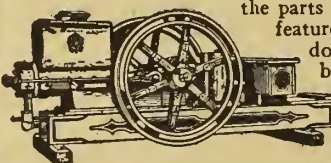
lost; the second, that the coal lands will be lost." From this Mr. Pinchot proceeds to argue that conservation of popular government is at stake as well as conservation of natural resources. He says: "The issue is whether this country shall be managed by men for human welfare or by money for profit. It is a tremendous moral issue, far greater than any man's personal feelings or personal fortunes. It lies between the people and their representatives on one side and the interests and their representatives on the other side; between progress and reaction; between special privilege and square dealing. I repeat that the supreme test is the welfare of the plain people. It is time to apply it." Mr. Pinchot is well within the confines of reason when he argues for conservation of natural resources, but because he has lost his place as chief forester is no reason why popular government is in any danger.

Keep a record of the breeding of each cow so you will know when she is due to calve. Turn her dry at least a month before the young calf comes if you want the calf to be strong and healthy.

Keep all dairy utensils perfectly clean. Pure milk cannot come from filthy cans or crocks. Scald all utensils every time used and set them out where they can air well.

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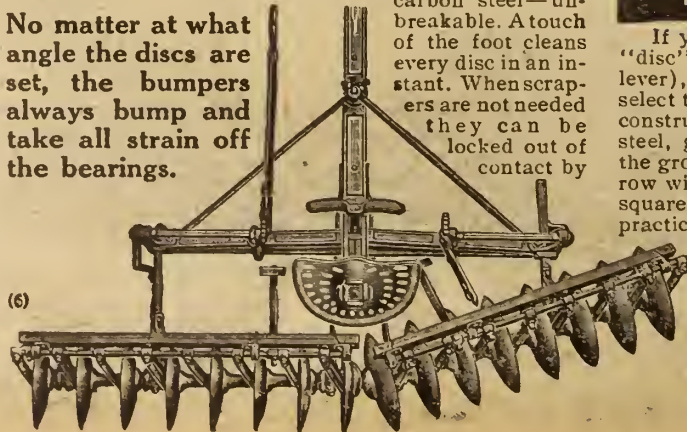


The Bumpers Always Bump

on Rock Island Disc Harrows—no matter whether you prefer the single or double lever rig. This means no side strain or end thrust on the bearings, no matter how deep the discs are set to work. One gang works against the other and the friction-proof ball bumper takes all the strain. That's why Rock Island Disc Harrows never get warped or twisted out of shape, why the draft is so easy and why the bearings remain good as new for years and years after any other Disc Harrow on the market has worn, twisted and racked itself into a mess of junk. And it's a good reason why no farmer is ever satisfied with anything but a Rock Island Disc after he has tried one or seen it work.

There are other patented features just as important, which mean just as much to a farmer in extra efficiency and wonderful durability. The scraper blades are of high carbon steel—unbreakable. A touch of the foot cleans every disc in an instant. When scrapers are not needed they can be locked out of contact by

No matter at what angle the discs are set, the bumpers always bump and take all strain off the bearings.



foot levers within easy reach. On most Disc Harrows the scrapers are always in contact—bind somewhere all the time. It's mighty hard on the team—like dragging a wagon with the wheels chained.

There are a lot of other points just as important which we can't tell you here, all of which taken together make Rock Island Disc Harrows the best, longest lived, most efficient and easiest to operate of any harrow made, irrespective of price, as can easily be proved by the testimony of more than 100,000 farmers who have tried all kinds and settled down to the good old reliable

Rock Island DISC HARROWS

DEFIANCE Single Lever

BONANZA Double Lever

If you want a harrow where one gang can be given more "disc" than the other you should select the Bonanza (double lever), or if you prefer to have the gangs always at the same angle, select the Defiance (single lever). Aside from these differences the construction is the same. Rock Island Discs are high grade coulters steel, ground, sharpened and polished and guaranteed to enter the ground by their own suction. No need to weight down harrow with rocks. Axles or head pins are heavy and strong— $\frac{3}{4}$ in. square instead of $\frac{3}{8}$ in. Bearings are hard maple, boiled in oil, practically dust proof and self-clearing. They should never need renewing. More Rock Island Disc Harrows are sold than of any other two makes on the market.

Before you decide on a Disc Harrow, see the Rock Island at your dealer's and make comparisons. We'll leave the decision to your own good judgment; or ask for catalog and nearest dealer's name.

ROCK ISLAND PLOW COMPANY
Rock Island, Ill.

WHEAT AND CHAFF

BY E. N. BAILEY

An old woman owned a he ibex.
He was as cute as a fox at all sly tricks;
The evil beast plotted,
Then backed up and squatted,
And bumped the old gal into flyspecks.

A man had a young cassowary,
That was fleet as an old dromedary.
He happened to scare it
When he tried to ensnare it,
For the casso was very much wary.

A frog-eating chap from Toulouse,
Tried to saddle and ride a young moose.
He never will know
Just how high he did go,
When the animal let its legs loose.

There was a young man from Dundreary
Who married an old maid named Mary.
You should see his broad grins
When they told him "It's twins"—
Now he wants to invest in a dairy.

When a Michigander marries a Portuguese
look out for goslings.

A turkey gobbler is the only animated thing that I know of that wears its vermiform appendix on the outside.

Speaking of oddly-matched teams, how would a kangaroo with its short front legs and a giraffe with its short hind ones do for a case of incongruity?

Domestic cattle are the only things that will dig their own graves with their mouths. If you have lost any cattle look under the straw stack for them.

When a young man goes to buy an engagement ring he acts just like a fellow does who puts on a band uniform for the first time, casting furtive glances to see if the eyes of the world are on him.

Bringing in the Sheaves.

January is a queer time of the year to harvest, but the family of L. H. Wheat, near Emmetsburg, Iowa, succeeded in garnering a crop of new wheat weighing ten pounds recently. Ah! that baby crop! The best and surest crop ever garnered! Drouth does not affect them, hail never deters them, you never lose them on a mortgage, and the bugs can't kill them. They grow day and night, wet or dry, hot or cold, and a baby's eyes are the most beautiful sight this side of heaven.

Ever See a Train on Time?

The monorail railroad is just what has been needed for many years. It costs like blazes to build a double railroad and cars with so many wheels. A train with six coaches has from eight to sixteen wheels to each coach and don't get here until tomorrow or next day, where if they had only one or two wheels each they might have been here yesterday or the day before. We ought to hail the monorail road as a great blessing if it gets here the day it is due or even the same week.

How to Make a Bobsled.

There seems to be a shortage of bobsleds all over the country that has sleighing. The stocks usually kept on hand have all been sold and local shops have used everything in the shape of sleigh timber in the prairie states, with still a shortage.

It is not much of a job to make a modern bobsled. All you require is a pair of those crooked side things, bolt one of the iron up-and-down things to each of them, then put one of the cross things on with another on top of it, now put the little cross thing in front with the little short thing that runs the other way fastened to the middle of it and you have the hind sled complete.

For the front sled begin with the long thing that runs out in front, fasten it to the short thing that goes crosswise, and then attach the two crooked side things with the up-and-down iron things fastened securely. Now put the two cross things on and bore a hole through the middle of both of them, stick a bolt through and fasten the hind bob to it, then bore a hole in the end of each top cross thing and put a wagon box on it and, presto! there you are, as easy as pulling

turnips. Of course you want some long iron things on the bottoms of the side things to help 'em to slip.

Auto Versus Airship.

The airship enthusiasts and the automobile enthusiasts are each claiming preeminence now for their respective machines. Each puts up a good spiel. The auto man says: "If you are in an auto smashup there you are, but if you get tumbled out of an airship where are you?" The airship man says: "When you steer an airship too far to the right or left you never hit anything, but when you make the same mistake with an auto, you are thrown violently against a big oak tree with a knot on it that makes the top of your head as soft as a rotten apple."

The auto man retorts "that he can glide over the highways and view the landscape and waterscape, and all the variety displayed in nature's beautiful panorama." The airship man then says he can see nature, too, and most everything else that can be seen from an auto except a lightning rod. The auto man says he would "as soon be bumped against a tree as to have his legs scraped over a gravel roof, and his head driven through the chimney."

It would seem that there is less genuine pleasure in humping up in an

auto and digging gravel out of your eye than there is in being first mate of an airship where you can stand on the poop deck and ask the sheriff: "What are you going to do about it, anyway?"

See Any Sense to It?

Possibly there is nothing you hate more than you dislike some other thing that you despise worse than you abhor something else. You used to like something better than anything else that you esteemed more than something, but not now. Time

changes things wonderfully. Repugnance of anything is far greater now than detestation of something not liked hitherto if you abjure most things that you disdained previously, or loathe anything that you abominated subsequently. The subject is so intricate, that it perplexes and bewilders fully as much as it confuses, embarrasses, and entangles. It reads best upside down, and if you know what the writer is trying to get at, don't tell anyone.

Ask your neighbor to subscribe for The Homestead.

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Insist on Clean Shelling, Thorough Separation, Large Capacity and Lasting Qualities. These are Distinctive Features of

The NEW HERO

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Lightning Pitless Scales

New Pattern. Solid Channel Steel Frame

Channels are seven inches which is the height of platform from ground. Levers are octagon in shape giving greater strength. Bearing are Toolsteel. This Scale will last a life time with ordinary care. Equipped with compound Beam Free. Furnished absolutely complete except platform planks. Guaranteed accurate and tested to more than its capacity. Write for our prices and description before buying.

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WE ARE the all-steel-wagon people. No other wagon concern in the world has ever had a line of wagons that they dared to sell direct to the user on such a liberal, freight-prepaid-free-trial selling plan, and long-time, five-year guarantee.

You can see at a glance through this advertisement that we take all the risk of satisfying you in every way that Breco All-Steel Wagons are exactly as represented.

We cannot begin to tell you the whole story here—space is too limited.

So, whether you read every word here or not—whatever else you do, do not think of laying down this paper or turning over this page until you tear out the coupon here and send for our Breco All-Steel Wagon, big color-illustrated catalog and direct-from-factory prices with freight prepaid. We offer you the best

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Please quote me prices direct from the factory, freight prepaid, on your Breco line of All-Steel Wagons, and send me your big free catalog.

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proposition on wagons ever made to the farmers of this country. We want you, now, before you think of buying any kind of a wagon for any purpose—made by anybody—to just send us your name and investigate the money-saving prices and splendid exclusive features—for the most practical uses in every kind of work that you have to do that you will find in

Breco Wagons

Sold Direct—30-Day Free Trial—5-Year Guarantee

We display our selling plan strong here, so you can see it at a glance. All we ask is that you, as a practical man, investigate Breco All-Steel Wagons before you buy any kind of a wagon.

Breco All-Steel Wagons can naturally be guaranteed much longer than wooden wagons—and now that high-grade wood supply is limited, you can see that we can afford to give you a much higher grade wagon in workmanship and materials, made of all steel, perfect in every particular, for the same or lower prices than you can get in anywhere near this value in old-style wagons.

Breco All-Steel Wagons are much lighter draft than wooden wagons. —Have tremendous capacity, way beyond the capacity of ordinary wagons for their weight.

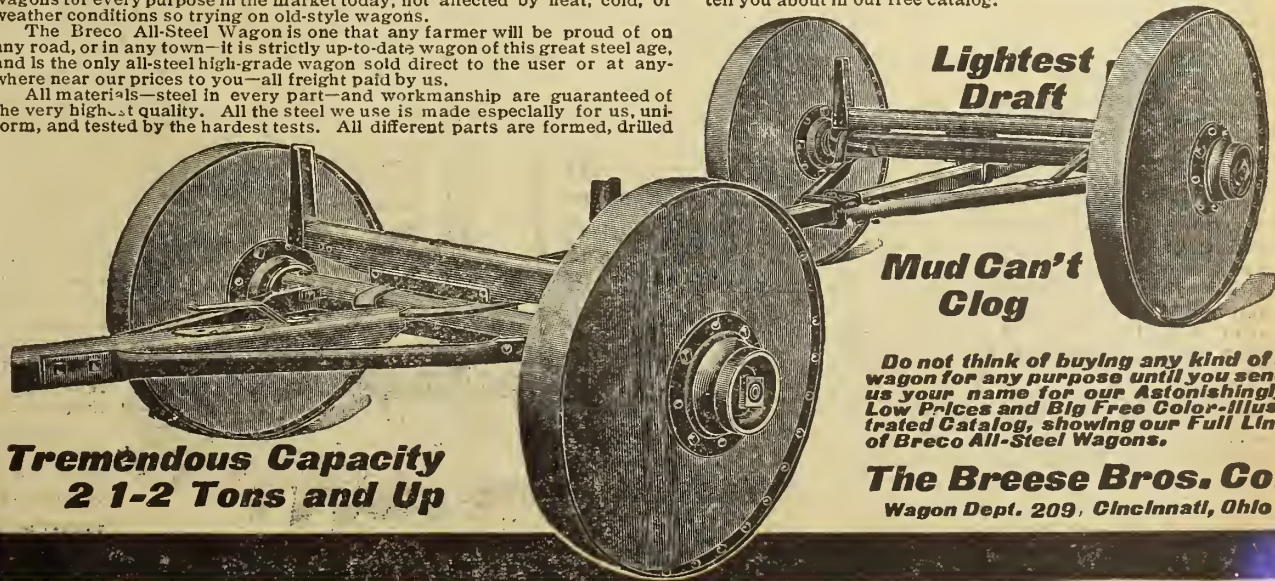
—Are the handsomest, most convenient, and by far the most servicable wagons for every purpose in the market today, not affected by heat, cold, or weather conditions so trying on old-style wagons.

The Breco All-Steel Wagon is one that any farmer will be proud of on any road, or in any town—it is strictly up-to-date wagon of this great steel age, and is the only all-steel high-grade wagon sold direct to the user or at anywhere near our prices to you—all freight paid by us.

All materials—steel in every part—and workmanship are guaranteed of the very highest quality. All the steel we use is made especially for us, uniform, and tested by the hardest tests. All different parts are formed, drilled

or punched by special machinery, which insures perfect, interchangeable and duplicate parts. Every gear is aligned and tested separately. Skeins and standard boxings, which you can always get quickly, are fitted by hand and the wheels inspected and tested three times during their construction. The gear is made entirely of cold-pressed steel—of strength, durability and simplicity. The axles are pressed into shape cold.

In fact, every part of the Breco All-Steel Wagon is made just as perfect as human ingenuity and the highest-grade steel and workmanship can make it, and every Breco is shipped to you guaranteed perfect. Safe delivery guaranteed for you to test on your work for 30 days, so that you can prove the claims that we wish to tell you about in our free catalog.



Lightest Draft

Mud Can't Clog

Do not think of buying any kind of a wagon for any purpose until you send us your name for our Astonishingly Low Prices and Big Free Color-Illustrated Catalog, showing our Full Line of Breco All-Steel Wagons.

The Breese Bros. Co.,
Wagon Dept. 209, Cincinnati, Ohio

AUTOMOBILE Hammer-Blows

In the single-cylinder motor developing 48 horsepower, the piston on each power-stroke would strike a hammer-blow of 28800 pounds.

In the six-cylinder motor, developing the same total horsepower, each piston strikes a hammer-blow one-sixth as heavy, 4800 pounds.

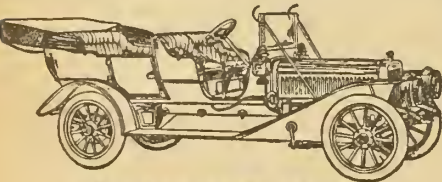
In the four-cylinder motor, developing the same total horsepower, each piston strikes a hammer-blow one-fourth as heavy as the single-cylinder piston, or 7200 pounds. The blow of the four-cylinder piston is therefore 50 per cent heavier than the blow of a six-cylinder piston, total horsepower being equal.

From this statement it is the simplest thing in the world to understand why a Six will outlive any four-cylinder car of equal horsepower; for the same power that propels a car serves to wear it out, and the severer the application of a motor's driving power the sooner will the car reach the end of its usefulness. Considering the purchase of an automobile in the light of an investment, this item alone is sufficient to cause one's decision in favor of the Six.

GET OUR LITERATURE

No automobile manufacturer in the world issues for the benefit of its customers a more complete line of literature than does the Winton Company. Our catalogs and booklets cover every phase of automobile purchase and use. We have nothing to conceal, and we like to take buyers into our confidence. We want our buyers to have complete knowledge of us and our product, and complete faith in both BEFORE they purchase, for we know that their faith will be completely sustained by Winton cars AFTER purchase.

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before you buy a rod of fence. Take my word for it, it will pay you to give me the chance. It's a book about

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I've had my say about fence in this book and I want you to read it. Most profitable fence in the world to buy, as I'll show you.

THERE'S A NEW THING ABOUT IT

It's now sold delivered to fence-buyers everywhere—not just in certain sections, but everywhere in the U. S. Plainly priced in the book (factory prices) and the factory pays the freight to your railroad station.

Send me a card or letter for book right away. I'm going to send out 45,000 of these books to farmers this fall, but I'll get them out promptly. Address FARMER JONES, Fence Man for

BOND STEEL POST CO.

37 E. Maumee St. Adrian, Mich.

14 1/2 Cents a Rod

For 22-in. Hog Fence; 15 3/4-c for 26-in.; 18 3/4-c for 31-in.; 22-c for 34-in.; 25-c for a 47-inch Farm Fence. 58-inch Poultry Fence 32-c. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.

KITSELMAN BROS.,
Box 290 KUNCIE, IND.

HINTS-SUGGESTIONS-DEVICES AND CONDENSED LETTERS FROM CORRESPONDENTS

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm or something that is connected with the home.

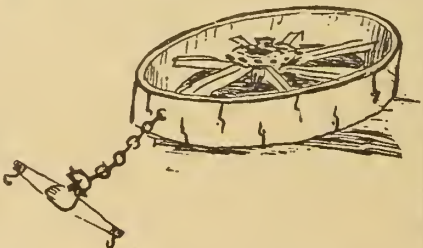
A Milkpail Holder.

From an exchange we get the plan for a milkpail holder as herewith illustrated. With this device there is no longer any danger of the cow kicking the milkpail over. The holder consists of a crossbar in two sections, which are adjustable relatively to each other and can be made to fit any pail. When the bar is joined the bent



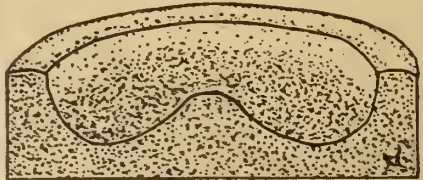
section encircles the rim of the pail and does not get in the way of the streams of milk, while clamp and hooks hold the receptacle to it. The milkman, or milkmaid, holds the pail between his or her knees, the crossbar bearing the weight, and is able to give all attention to the milking without keeping one eye on the near hoof.

We herewith illustrate a snow plow made from the water wheel of a discarded Minneapolis harvester, which one of our subscribers says he has found to be a good one. First take and break off the hub so the rim will lay flat on the ground, then take out one



spoke so as to have a hole to bolt clevis and chains to. He uses but one horse, except for a long distance and deep snow, then he uses a team. Leave the cog wheel on so as to give it more weight.

This form of trough has many advantages over the old style of oblong trough, as it will permit the animals to reach the food with greater ease and does not allow them to crowd each other so much; as the circumference of circle gives greater room than the two sides of the usual trough thus permitting more animals to drink from same. To make; a circle is made of sheet iron or a light wood, two old cheese boxes are excellent for the purpose; these are bent into the circle desired and the concrete placed



inside this form; with trowel it is formed into the concave surface as illustrated in sectional illustration above, the center is raised higher than the bottom which causes the feed to flow down in front of the animals. The concave surface permits them to reach the feed more easily and does not leave a waste in the bottom as with the usual three-cornered trough made of boards. This design is excellent for a watering trough for other animals as well. The edge at top

FREE FARMER'S 10-FOOT TAPE-MEASURE FREE

Best Linen Waterproof Tape, Three-Eighths Inch wide. Indelible markings in two colors. Beautifully nickel-plated case.

Write us on a postal card asking for the tape-measure and telling us about how many rods of fence you have on your farm.

That is all it will cost you now or any other time. It is simply a gift we send with the information we want you to have about

APEX FENCE

The Fence with The Swinging Joint

Self Adjusting To Rolling Ground

We know that APEX fence will solve your fence troubles. It is the easiest to erect and the strongest when built of any square mesh fence made. Farmers are tearing down other unsatisfactory fencing and putting APEX fence in its place. We want to tell you why this is and save you the trouble of rebuilding fence. We will send full information with the gift.

A postal card mailed now will get this useful gift and the trouble saving facts about fencing.

Janesville Barb Wire Co., 200 S. Franklin St., Janesville, Wis. This is the patent Swinging Joint.

Advance Fence Straight to You

"The Fence That's Made in Elgin"

On 30 Days' Free Trial

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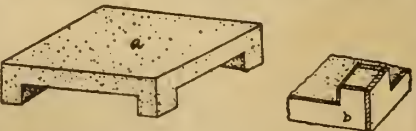
An offer for the farmer who wants the best fence produced at the lowest price a lifetime fence can be made for. Advance Fence isn't just a boundary line—it stands for system and advance value in property. Advance Woven-wire Fence is the best-looking—strongest constructed—longest-lasting fence on the market. To prove it to you, we make our great offer: If the fence isn't satisfactory, send it back at our expense. Advance Fence is made of solid wire—not wire cut and spliced again. A cut wire weakens. Our stay wire is continuous, woven in with the main top and bottom wire, running the entire width of the fence from one stay to the next. Made of the best basic, open-hearth steel, galvanized with a heavy coat of 99 per cent pure spelter—that means rust-proof. Advance Fence always stays taut—straight and handsome. Prove it for yourself. Write us for all particulars. Remember, we pay freight and guarantee safe delivery.

Don't Pay Two Prices—Write Us Today.

ADVANCE FENCE COMPANY, Box 107 Elgin, Ill.

should be rounded, or made convex, so that there will be no sharp edges to injure themselves upon.

As illustrated at (a) this bee hive stand raises the hive off the ground from four to six inches, as desired, thus protecting the swarm against dampness and many vermin. It is made by making a box form of a size that is several inches larger than the hive; at each of the four corners of this form, four inches of the side is left to mold the legs to stand, the center of each side is cut away to permit the work to be molded easier. If the stand is to be four inches high have the legs two inches and stand two as well, if six inches the legs should be three and one-half inches high and the main part of stand two and one-



half. The concrete is filled into the form made and when even with the top, a form is placed at each corner as shown at (b); this should be the size legs are to be molded or four inches square on the inside; this permits the concrete to be placed and each leg made the same height. Where it is desired to have the stand so as to hold the hive in a slanting position, towards the front, it can be very easily arranged by making the legs at one side higher than at the front to give it the slant desired. By hinging the form at three corners and with the fourth

corner to fasten with a hook and eyelet; the form can be removed while the concrete is "green," by folding back from the work thus permitting a number to be molded on the same day.

THE M'CURDY DUROC SALE.

The sale of Messrs. A. McCurdy & Son, at Alta, Iowa, on January 12th, was quite well attended by the farmers and also quite a good breeders' crowd, and thirty-six head were sold at an average of \$50. Prices ruled conservatively, the top being \$77.50 for Laura's Model, a daughter of Model Chief 3d. Colonel Luther cried the sale. Below is a list of the sows sold:

1	Joseph Rice, Ida Grove, Iowa...	\$53.00
2	Wm. Gutel, Alta, Iowa...	61.00
3	Same	50.00
4	Jim McCurdy, Alta, Iowa...	48.00
5	Wm. Gutel	65.00
6	Eugene Burton, Storm Lake, Ia.	76.00
7	Same	67.50
8	Joseph Rice	54.00
9	Lewis Benson, Alta, Iowa	49.00
10	Tom Carney, Storm Lake, Iowa	41.00
11	James Williams, Marcns, Iowa	70.00
12	Wm. Gutel	51.00
13	M. S. Moats & Son, Missouri Valley, Iowa	47.50
14	Edmonds, Shade & Co., Kingsley, Iowa	64.00
15	Waltmeyer Bros., Melbourne, Ia	77.50
16	Lewis Benson	51.00
17	Wm. Gutel	51.00
18	Mark Schulke, Alta, Iowa	43.00
19	Joseph Rice	51.00
20	H. L. Cantine	53.00
21	Geo. Watson, Alta, Iowa	45.00
22	Joseph Rice	43.00
23	E. J. Kollhagan, Anrelia, Iowa	45.00
24	Joseph Rice	39.00
25	Theo. Nordstrom, Aurelia, Iowa	40.00
26	A. P. Alsin, Boone, Iowa	47.00
27	John Goddard, Harlan, Iowa	45.00
28	W. I. Jacques, Galra, Iowa	45.00
29	Jno. M. Fleming, Dixon, Ill.	43.00
30	E. W. Kreeger, Aurelia, Iowa	51.00
31	A. W. Peterson, Alta, Iowa	38.00
32	W. I. Jacques	42.00
33	Edmonds, Shade & Co.	50.00
34	Chas. McCurdy, Alta, Iowa	30.00
35	L. H. Lemar, Storm Lake, Iowa	32.00
36	Chas. McCurdy	25.00

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

WAYS OF NECESSITY.

When a person owns a tract of land abutting on a public road, and sells and conveys a portion of it in such form as to cut off access to it from the road, the purchaser has of necessity and by operation of law, a right of way from the road to the land he has bought, across the other part of the tract.

Likewise, if the owner of land sells and conveys the part of it abutting on the road in such form as to deprive himself of access to the remainder, he has of necessity and by operation of law, a right of way over the part sold.

In a case like the one first stated, the law presumes that the seller would not sell a portion of his land to another without an understanding that the grantee should have a legal right of access thereto over the part not conveyed; and in a case like the one last stated, the law presumes an understanding of the parties that the seller should have a legal right of access over the part sold to the part he retains, if he can reach it in no other way.

These presumptions of the law have been held to prevail even over the ordinary covenants of a warranty deed; and it has also been held that an express reservation of such rights of way in a deed, does not give them any greater force or extent, than they have by virtue of such legal presumption where the deed is silent on the subject. Such a right exists in the partition of real estate among heirs or tenants in common, in favor of any tract allotted, which is not accessible except over a part, or parts of the land allotted to others. The right seems to attach to the land rather than to the person. The land to which such right

ELLWOOD FENCE

MADE OF TOUGH SPRINGY STEEL

Savings from a Well-Fenced Farm Will Pay for Other Improvements

"The most profitable crop walks to market or is carried in the cream can." The raising of swine can be made one of the most profitable industries. It promises quicker and greater returns for labor and capital expended. Changing swine from one pasture to another is desirable, as they will do vastly better on fresh pasture and keep much healthier." W. W. P. McCONNELL.

Ellwood Fence is built on simple, correct principles. The cross (or mesh) wires are firmly wound around heavy cable horizontal or line wires, forming a truss brace that effectually prevents side-slipping. It really is a WIRE BOARD, with meshes only 4 inches across throughout the first 18 inches of all styles of hog fences. Ellwood Fences combine great strength with closeness of mesh. They hold the grown hog and the suckling pig. All

styles furnished with barbed wire woven at bottom if desired. With barbed-bottom Ellwood Hog Fence you save the cost of an extra strand of barbed wire stretched under the fence, as is required with plain bottom fence

F. BAACKES, Vice-President and General Sales Agent AMERICAN STEEL & WIRE CO.

Chicago New York Denver San Francisco

NOTE.—Dealers Everywhere. See the one in your town and have him show you the different designs and give prices. Also get from him booklet entitled "How to Build a Cheap Concrete Fence Post," furnished free for the asking.

attaches, is called the dominant estate; and the land over which the right of way runs, is called the servient estate.

The owner of the land over which the right of way is to pass, has the legal right to choose where it shall be located, provided he does so in a reasonable manner, having due regard to the rights and interests of the owner of the land who is to use such right of way, but if such owner fails or refuses to choose such location when requested to do so, then the other party may select the location of such right of way, having due regard for the convenience and rights of the owner of the land over which it is located.

When such a way is once selected, it cannot be changed by either party without the consent of the other.

LAW QUESTIONS CONSIDERED.

SEED LAW OF IOWA.

A Subscriber, Winterset, Iowa.—What is the law relating to the sale of clover seed by a farmer to his neighbor, or to a seed firm?

Answer.—The law relating to the sale of agricultural seeds is too long to be published in this department. It can be found on pages 186 to 192 of the Iowa session laws of 1907. Generally, it provides that packages or lots of agricultural seeds containing a pound or more, offered for sale, shall be labeled with a statement of name of seed, name and address of seedsmen, importer, dealer or agent, and a specific statement of the seed's purity, and locality where grown. The law prohibits the sale of seeds for seeding purposes, unless they be free from the seeds of wild mustard or charlock,

Farm

Gates

Iowa Gates

hang close to the ground and have barb wire at bottom, so they are hog and chicken tight. You can raise them a little to pass over slight obstructions or away up high enough to let hogs run under or to swing over deep snow drifts. They are made of High Carbon Steel Tubing, not common gas pipe, but specially made, double strength tubing that is heavy enough to turn all vicious stock. Cost Less and Last Longer. Sent on 60 days free trial. Write for free book on farm gates. JOS. B. CLAY, Mgr. Iowa Gate Company 9th St., Cedar Falls, Iowa.

quack-grass, Canada thistle, wild oats, clover and alfalfa dodder, field dodder and corn cockle. If clover and other agricultural seeds be free from such seeds, they may be sold by a farmer to his neighbor for seeding purposes without being subject to the law of 1907, and a farmer may also sell such seeds direct to merchants, including seed firms, to be cleaned or graded before being offered for sale for the purpose of seeding, without being subject to said law.

DESCENT IN IOWA.

A Subscriber, St. Anthony, Iowa.—A and B were husband and wife. They had forty acres of land in Iowa, the title to it being in B's name. They have six children. B died leaving no will. What share of the land is her husband entitled to under the laws of Iowa?

Answer.—The husband is entitled to one-third of the land, and the children to the other two-thirds, divided equally among them.

OPENING PRIVATE ROAD.

A Subscriber, Rockport, Ill.—I own a farm adjoining the public highway. B, C and D own farms adjoining mine as represented in the diagram. B wants a road opened from his land through my farm to the public highway. He wants it along my south line a distance of sixty-five rods, but I do not want it there because my buildings are within a

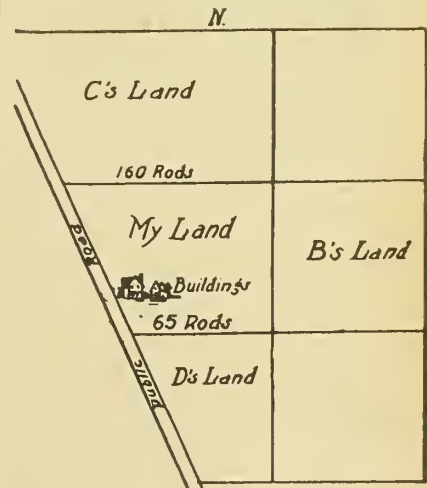
BROWN FENCE

For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. We pay freight. The Brown Fence & Wire Co., DEPT. 34 Cleveland, O.

FENCE STRONGEST MADE.

en-tight. Sold to the user at Wholesale Prices. No Pay Freight. Catalogue free. COILED SPRING FENCE CO., Box 20 Winchester, Indiana.

few rods of my south line, and need all the room there is there. I am willing to sell B ground for a road along my north line, which is 160 rods long. (1) Can B compel me to



sell him a road along my south line? (2) If B can force a road on either line, will it be all on my ground or partly on adjoining land? (3) How wide will such a road be?

Answer.—(1) B cannot compel you to sell him land for a road along either line, but he can condemn a right of way over your land. To do so he must petition the commissioners of highways for such a road, and they have power to lay it out as asked for in such petition, in practically the same way a public road is established. A jury must be summoned to assess the damages which you will sustain by opening such road, and before it is opened, B must pay you the damages assessed by the jury. Either party may appeal from their decision. (2) The road might be established entirely on your land, or partly on your land, and partly on adjoining land. (3) Three rods or less.

FIRST AND SECOND MORTGAGES.

A Subscriber, Perkins, Iowa.—A bought a farm of 320 acres from B, giving in consideration \$18,000 cash. The balance was loaned by B to A for a term of five years, A giving his note for \$9,000, secured by a first mortgage on the land, and another note for \$9,000 secured by a second mortgage on the land. The second mortgage has a clause providing that should A at the end of five years wish to renew the mortgage he must so inform B sixty days prior to its expiration and B shall then renew it. B still holds this mort-

RAISE YOUR GATES

Cyclone Victor Gates

Lift and swing over deepest drifts or other obstructions with ease. They are built of high carbon tubular steel with brazed seams and heavily galvanized Bessemer steel wire. They cost but little more than board gates and will outlast a dozen of them. Examine Cyclone Farm Gates at your dealers. See how well they are built—how convenient they are for use the year 'round. Write for free catalog. Cyclone Fence Company Dept. 121, Waukegan, Ill.

DON'T SHOVEL SNOW

NINE SIZES IN ONE

STANDARD POST HOLE AUGER

If you have fences to build, trees or shrubs to plant or wells to bore in earth, send for our catalog F

Standard Earth Auger Co. 1128-1134 Newport Avenue Chicago, Ill.



The Clydesdale yearling stallion, King's Deputy, owned by Messrs. McLay Bros., of Janesville, Wis. This youngster stood fourth in a remarkably strong ring of entries at the last International. He was sired by Royal Edward and is a very likely colt. For further particulars concerning this and other noted Clydesdales write the Clydesdale specialists at Janesville, Wis. See advertisement on page 58 of this issue.

gage, but he sold the first note and mortgage. A now wishes to renew the first mortgage, as well as the second mortgage. Can he compel B to release his second mortgage long enough to get the first one renewed?

Answer.—A cannot compel B to release the second mortgage for the purpose of having the first one renewed. If the holder of the first mortgage is willing to give more time for payment, and B is also willing to give more time, no formal renewal of either mortgage is necessary. They may just remain as they are, the holder of the notes respectively simply permitting them to run unpaid for the time agreed upon for their extension, and in such case the two mortgages will remain liens on the property in the order in which they were given.

LEGAL STATUS OF DOGS.

An Idaho Subscriber.—(1) According to law, in what way does a dog differ from other personal property, such as horses, cattle or hogs? (2) If a peaceable dog is on the public road or on premises not belonging to his owner, has any person a right to kill it? (3) If a harmless and peaceable dog is killed when he is away from the owner's premises, can his owner recover damages?

Answer.—(1) By the law of Idaho dogs are declared to be property. If they are stolen, the law deems them to be of the value of one dollar each, simply for the purpose of determining whether the theft be grand larceny or petit larceny—for all other purposes the value of a dog is determined like the value of other personal property. If a dog is wrongfully killed or injured, the owner can recover by law whatever damages he can prove. (2) No person has a right to kill a peaceable dog that is not chasing animals or persons, simply because the dog is on the road, or on premises not belonging to its owner, and if a person does so, he is liable to the owner of

the dog for its full value. (3) Already answered, in last answer.

SELLING DUCKS AND RABBITS.

An Iowa Subscriber.—According to the new game law can such game as rabbits, ducks, etc., be sold by an unlicensed hunter who hunts and kills the same on his own farm?

Answer.—Such a hunter may sell rabbits at any time, but he cannot lawfully sell ducks between the 20th day of April and the 1st day of September, but may do so at other times.

SALE OF GOOD WILL.

A Subscriber, Cedar Rapids, Iowa.—I operated a milk route in Cedar Rapids, Iowa, and I sold out the business on July 12, 1909, and agreed in the bargain that I would not again operate a milk route in that city for one year—not until after July 12, 1910. The purchaser afterwards sold the business to another party and turned over the agreement I made not to run the route till July 12, 1910. Had he a right to do so, and does it lawfully bind me to not run a milk wagon in Cedar Rapids till after July 12, 1910?

Answer.—The man to whom you sold your milk route business had a lawful right to transfer your agreement to not operate again for a year to his purchaser. It was part of the consideration for which you received the price, and just like other property that could be transferred. You could not part with it, and still hold it. When you passed the agreement to your purchaser, there was no string to it, and it lawfully binds you to not run a milk wagon in Cedar Rapids till after July 12, 1910.

PARTITION AMONG HEIRS.

An Iowa Subscriber.—A widow died two years ago, leaving eighty acres of land in Iowa. She left five children, two boys and three girls. They are between forty-five and sixty-five years old. The three girls are in need and want their shares of the estate, but the boys refuse to either sell or buy. What legal steps should be taken to enable the girls to obtain their shares of the property?

Answer.—They should join together and employ a reliable local lawyer to bring a suit in the district court of the county where the land is located, for partition of the property.

MICHIGAN MORTGAGE TAXABLE IN IOWA.

A Subscriber, Anita, Iowa.—A lives in Iowa and holds a mortgage on real estate in the state of Michigan. Can he lawfully be taxed on the same in Iowa? The interest on the mortgage is paid at a bank in Michigan.

Answer.—The mortgage secures a debt, probably a promissory note or notes, held and owned by A. The note or notes with the mortgage, although they may be actually in a bank in Michigan, constitute personal property belonging to A who lives in Iowa, and are assessable for taxation in Iowa, as credits of A, upon the principle that personal property is taxable in the place where the owner resides.

REMOVING MORTGAGED PROPERTY.

A Subscriber, Springfield, Iowa.—A lived in South Dakota. He sold a span of horses there and took a chattel mortgage on them, and then moved to Iowa. Suppose the buyer of the horses takes them to another state, will the mortgage hold good, and how can A recover the price?

Answer.—If the mortgage was duly filed with the register of deeds in the county where the horses were at the time, then the mortgage will hold good in the state where the mortgagor takes the horses, provided, of course, the holder of the mortgage or his agent follows them up without unnecessary delay, and takes possession or demands it under his mortgage, which he has a lawful right to do. If the mortgagor moves the horses to another state without the written consent of the mortgagee, he is liable to be sent to the penitentiary for not exceeding three years, or to jail not exceeding one year and be fined not exceeding \$500.

MARRIED WOMAN'S PROPERTY—WILL.

An Iowa Subscriber.—A and B are husband and wife. The wife inherited eighty acres of land after her marriage, and it is now in her name. Neither husband nor wife has children or descendants. (1) In case the wife should die first, what share of her property would her husband be entitled to under the laws of Iowa? (2) Could the wife will all her property to another party?

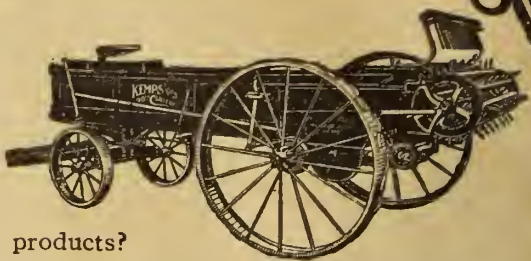
Answer.—(1) The surviving husband would be entitled to one-half of the wife's property; the other half would go to her parents. (2) The wife cannot lawfully will away all her property. She cannot by will cut off her husband's right to half of it in case of her death. She may lawfully will away one-half of it.

FREED'S DUROC SALE.

A successful sale of Duroc Jerseys was held at Ames, Iowa, on Friday, January 7th, by Mr. S. P. Freed. While no sensational prices were paid, yet the average was satis-

YOU CAN'T AFFORD TO WASTE BARNYARD MANURE

DO YOU realize that when you let manure lie out in the barnyard in the sun and rain that you are literally wasting one of your most valuable farm products?



And do you realize that you are making still greater waste every time you haul out a load of manure and throw it off in piles or attempt to spread it with a pitchfork?

Every ton of manure you can scrape up is worth in the neighborhood of \$4.00. It would cost you that much if you attempted to buy it. It would cost you still more to buy commercial fertilizers to take its place.

That makes your duty to yourself plain. You ought to own an I. H. C. manure spreader and avoid all manure waste. You may have your choice of three most excellent machines:

The Cloverleaf is an endless-apron spreader.

The Corn King and the **Kemp 20th Century** are of the return-apron type.

Any one of these machines will prove a great time and labor saver for you. They all make the manure fine, so that it is in condition to nourish your growing crops. They spread it as thick or thin as you may require and far more evenly than you can with a pitchfork. The effect on the first crop is greater than can be secured with hand-spreading; the permanent benefit to your land is greater, and the same amount of manure covers practically twice as much ground and requires only half the labor on your part.

Do you not feel that you should have the benefit of so valuable a machine?

Call on our local agent and investigate. He will supply you with catalogues and particulars. Or, if you prefer, address us for catalogue and further information.

INTERNATIONAL HARVESTER COMPANY OF AMERICA
CHICAGO, U. S. A.



THE
I.H.C. LINE

LOOK FOR THE I. H. C. TRADE MARK. IT IS A SEAL OF EXCELLENCE AND A GUARANTEE OF QUALITY.

factory to the seller and the buyers secured good values for their money. Sows bred to Freed's Col., one of the greatest spring boars sired by Prince of Cols. and a candidate for 1910 fair honors, were in good demand. A gratifying feature of the sale to Mr. Freed was the large number of sows which stayed within a few miles of home. Messrs. S. L. Hopper, of Neola, Iowa, and F. H. Dickey, of Emmetsburg, Iowa, secured sows bred to Freed's Col. at \$77.50 each, the top price of the sale. Mr. W. R. Bennethum, of Madrid, Iowa, secured a splendid gilt bred to Freed's Col. at \$75 and Mr. B. Walker, of Rhodes, Iowa, took one at the same figure. Cols. F. F. Luther and H. L. Igleheart conducted the sale in a pleasing manner. List of sales follows:

1. Sow, John L. Briley, Ames, Iowa..\$48.00
2. Sow, Z. T. Burnett, Ames, Iowa.. 50.00
3. Sow, John L. Briley..... 41.00
4. Sow, H. S. Lowman, Kelley, Iowa. 48.00
5. Sow, Wm. Herkleman, Elwood, Ia. 51.00
6. Sow, John Reimer, Kelley, Iowa.. 38.00
7. Sow, A. P. Alsin, Boone, Iowa.. 50.00
8. Sow, Geo. Furr, Ames, Iowa.... 37.00
9. Sow, Chas. Huey, Ames, Iowa.... 44.00
10. Sow, same..... 50.00
11. Sow, H. C. Biggs, Valparaiso, Ind. 36.00
12. Sow, Z. T. Burnett..... 50.00
13. Sow, B. Walker, Rhodes, Iowa.... 57.00
14. Sow, H. C. Biggs..... 40.00
15. Sow, W. R. Bennethum, Madrid, Iowa..... 72.00
16. Sow, F. H. Dickey, Emmetsburg, Iowa..... 45.00
17. Sow, Same..... 77.50
18. Sow, F. B. Butterfield, Ankeny, Iowa..... 40.00
19. Gilt, H. C. Biggs..... 47.50
20. Gilt, Ed A. Baxter, Pawnee, Ill.. 40.00
21. Gilt, Ernest Pancake, Ransom, Ill. 36.00
22. Gilt, S. L. Hopper, Neola, Iowa.. 77.50
23. Gilt, A. D. Freed, Kelley, Iowa.. 77.50
24. Gilt, J. B. Hockings, Gilmore City, Iowa..... 39.00
25. Gilt, B. Walker..... 75.00
26. Gilt, S. F. Brooks, Kelley, Iowa. 36.00
27. Gilt, L. J. Miller, Madrid, Iowa.. 50.00
28. Gilt, D. Callahan, Kelley, Iowa.. 36.00
29. Gilt, M. F. Callahan, Ames, Iowa. 30.00
30. Gilt, E. N. Richardson, Ogden, Ia. 32.00
31. Gilt, J. P. Pettinger, Ames, Iowa. 31.00
32. Gilt, S. L. Hopper..... 40.00
33. Gilt, F. B. Butterfield..... 25.00
34. Gilt, Wm. Herkleman..... 36.00
35. Gilt, F. H. Dickel..... 50.00
36. Sow, A. A. Lein, Story City, Ia... 30.00

37. Sow, A. D. Freed, Kelley, Iowa.. 41.00
38. Sow, J. A. Bateman, Ames, Iowa. 35.00
39. Sow, Chas. Huey..... 37.00
40. Gilt, R. J. Harding, Macedonia, Ia. 35.00

SUMMARY.

- 41 head\$1,851; average.....\$45.14

ALL-STEEL WAGONS.

The farmers of the West have not yet become sufficiently acquainted with all-steel wagons to appreciate them at their full value. As a means of acquiring information of value on this subject we refer our readers to the advertisement of Breese Bros. Company on page 9. The Breese wagons are all steel and the line which they produce has come through a successful competition with all makes of wagons of different material. There are a thousand reasons why steel wagons are the more desirable. The first proposition is that they can be guaranteed to last for a longer period of time than one of any other material. The manufacturers assert that they are lighter draft than wooden wagons, that they are of tremendous capacity and that they are the most convenient and most serviceable wagons for every purpose on the market today. They are not affected by heat, cold or weather conditions as are a wooden wagon. The Breese wagons are sold under a guarantee which makes the buyer absolutely safe. They are sold at very low prices, freight prepaid, and safe delivery guaranteed. In addition to that the buyer is permitted to give the wagon a thirty-day test so that every claim made by the manufacturer may be verified. The many advantages and points of superiority of these wagons may be learned from the big illustrated catalog which may be had upon application to the Breese Bros. Company, Wagon Department 209, Cincinnati, Ohio.

Farmers and others who contemplate investing in western farm lands, farm loans or the like should get into correspondence with Messrs. Giller & Kiff, of Ft. Collins, Colo. These gentlemen do a real estate, loan and investment business and look after the interests of eastern clients, investing their funds in loans that net most attractive rates of interest. They have special bargains in irrigated farms that will pay large profits to the investor. A list of these farms or other information may be had by writing to Messrs. Giller & Kiff, 122 West Mountain Ave., Ft. Collins, Colo.



Remington
AUTOLOADING SHOTGUN

YOU don't have to bother to load a Remington Autoloading Gun. The recoil does all the work of ejecting the empty shell and throwing a loaded one into place. You pull and release the trigger for each of the five shots.

Pleasant to shoot because of slight kick. Absolutely safe because of the Remington Solid Breach Hammerless feature. Easy to handle and quick to point.

Try one on ducks or geese. You will agree with the sportsman who wrote "I wouldn't take a \$1000 for my Remington Autoloader if I couldn't get another." Anyone can afford one, the price is so moderate.

If your dealer can't show you one, write us for catalogue and literature.

THE REMINGTON
ARMS COMPANY,
Ilion, N. Y.

Agency, 315 Broadway,
New York City

WITTE ENGINES

USE GAS, GASOLINE OR KEROSENE

Are known by a superior standard of construction. 25 years of service has demonstrated their worth. Does work at lowest cost and is always ready to saw, grind, pump, shell or do any farm or shop work.

FIVE YEAR BOND GUARANTEE

We build all sizes in stationary or portable type. Hopper jacket or water tank cooling. Inducements to introduce in new localities. Write stating size wanted.

WITTE IRON WORKS CO.
519 West Fifth St. Kansas City, Mo.

Echoes From a Kansas Farm

BY HENRY HATCH

Every Kansas farmer, for the last week, has been wishing for a good sleigh or a pair of "bobs." It has been years since we have had a winter that furnished as much use for sleighs as this one already has.

Fuel and feed is being called upon heavily. The first can be easily obtained if the railroads will haul it in, but rough feed is going to be scarce on many farms if grass does not come until as late as last spring.

A great many farmers cut up corn until they think they will have about fodder enough, then pasture the stalks left standing. A stalk field ten acres in size will hardly furnish one-fourth the feed that a similar field of shocks will. What we need is more corn put in the shock and less dependence placed on getting so many days of feed out of the stalks left standing.

A slice off the northern border of the corn belt was almost wiped clean of seed corn by the October freeze. A small per cent of their corn will not germinate, and unless that is taken good care of until spring, some more of it may prove worthless. Down here we are better off, but we should never guess that our seed is good—we should know.

The fact that our seed corn will "mostly all grow" is not good enough. Counting seventy-five ears to the bushel, which will plant from eight to ten acres—say eight ears to the acre—one ear in the lot that will not grow means an eighth of an acre missed. We can only detect that ear by testing, and with a tester it is not much

of a job to test several hundred seed ears.

If there is any job that gets a person's "wind" quicker than cutting across a hay stack with a dull hay knife, we don't know what it is. The only way to do this job easily is to have a sharp knife. It takes less than five minutes to sharpen a hay knife, yet hundreds are used through a season without sharpening.

The average farmer is more careful with his small tools than he used to be. A tool house is the handiest little building on the farm. Having a place for everything and keeping everything in its place contribute much towards keeping the temper sweet and the tools in good order.

It takes a good ax to cut hedge and hold its edge, but sometimes we pay the price of a good ax without getting it. Yesterday, a neighbor showed us a \$1.25 ax he had struck three blows with, and three nicks as large as silver quarters were gone. He agreed, however, that what was left was worth less than fifty cents.

The best way to anchor a windmill is to anchor it in cement. A sack of cement, properly sanded and graveled, to each hole will hold any tower from pulling loose from its moorings in any ground, no matter how springy. You'll have it there to stay if you bed each post in cement.

Those who have a large number of cattle are discarding windmills and using gasoline pumping engines. With a windmill, it is a case of having a large storage capacity or having to pump by hand. If the mill must pump the day's needs each day, for 100 head of stock, it will often be unequal to the task. It comes hard, after having water pumped while you go about your chores, to have to pull a pump handle for an hour. It seems like doing work for nothing, then.

The wood pile is a good use to make of crooked growing hedge or catalpa. The new growth that comes will be straight and with a root system to correspond with a large tree to feed it, the sprout will quickly grow into a tree of post size. Hedge wood is almost equal to coal, pound for pound, and many would rather have it.

If every farmer was sure there would be snow next winter as there has been this, it would take two or three factories running day and night to supply the demand for bob-sleds. With the exception of only three or four days, it has been good sledding for nearly a month, and a load of great weight could have been easily hauled on a stout pair of "bobs." But sledding in the Southwest is of unknown quantity.

Good Roads.

To the Editor of The Homestead:

The good roads problem just now seems to be the fad, yet every fad has good points. Mr. Howard Staples, in a recent issue of your paper opposes the work-out system and favors cash tax with township pathmasters. A few years ago Nebraska changed to the cash tax and township system of pathmasters, but it proved a failure and the last legislature changed back to district overseers. A tax was collected but there was no evidence of it on the roads, and the people called it a graft. True, the old system was imperfect and some shirked, but most did their share of work and threw in some extra. Under the cash tax farmers were not employed, hence very little work was done. The roads went from bad to worse and the "cropping to the tracks" continued.

Roads in Nebraska are four rods wide and are usually good when the elements are. Still there are many places that can be improved by an intelligent use of a grader. When I say this I do not mean that the roads should be dug up so that mudholes are formed. It is a mistake to disturb the natural soil by plowing, and by simply using the grader to incline the water from the center is enough. Of course high points must be taken into low places but even this should not mean slight elevations. I fully agree with Mr. Staples as to employing experts, for as a rule they are

Southwest farms are not only richer, but make their owners richer.

Miles of sections whose only drawback was lack of railroad development have been *opened up* by the *locomotive* and made *available* for *agriculture*. It's just like coming into a *newly-discovered land*.

The Great Southwest

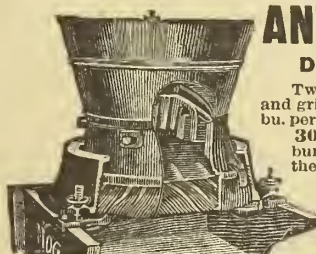
offers the *same* chances to *first* settlers. *Splendid* properties can be bought at prices which seem *ridiculous* to *farmers* from states where *years* of *cultivation* have so *increased* the *cost* of *soil* that *acres* are sold by the *hundreds* of *dollars*.

Write today and tell me what section you are interested in and I will send you free some valuable books that will open your eyes to new possibilities waiting for you in the Southwest.

Low rate Success Seekers' Excursions first and third Tuesdays of each month

L. M. ALLEN, Passenger Traffic Manager 97 La Salle Street Station, Chicago

Rock Island Lines



ANTI-FRICTION, 4-BURR MILLS

DOUBLE THE CAPACITY OF GEARED MILLS

Two-horse mill has 24-ft. grinding burrs (two set) all grinding at once, and grinds from 25 to 50 bu. per hour. Four horse mill grinds from 60 to 80 bu. per hour.

30,000 Bu. with one set of burrs.—I have ground with one set of burrs, more than 30,000 bushels of corn with my Mogul No. 1 Mill, and the burrs are still in good condition.—F. F. Craig, Mt. Carroll, Ill.

Two complete mills in one; has double the capacity and double the durability. Absolutely no friction or gearing. Will earn cost price in three days. The largest ears of corn to these mills are like popcorn to other mills. We manufacture the most durable and fastest grinding line of mills sold, including our Famous Iowa No. 2 for \$12.50. Send for our free catalog.

BOVEE GRINDER & FURNACE WORKS, 100 8th Street, WATERLOO, IOWA.

only human and are not \$5,000 superior to any intelligent man or men in any road district. In fact, knowledge is too cheap in these day of splendid literature, and even a "hay-seed" knows a thing or two, among which is the fact that he is one of us.

Good roads are among the things that require time and labor to complete, and a mile each year, if done right, will in the end give all better roads, but never will they all be the best. Every farmer (land owner) should be required to keep all roads on his lands passable, and if in a difficult place a small tax on all property in the township should be levied to help out. Of course, a county road fund is necessary in order to erect bridges of above a certain cost. If land owners were compelled to keep roads on their lands in good trim, each would take pride in excelling, hence the good roads problem would soon bear fruit. W. C. Starkey.

Jefferson county, Neb.

Relation of the "Standard" to the Farmer.

To the Editor of The Homestead:

If I were writing from theory, this subject would floor me to such an extent as to surely want to throw up the sponge and quit, even with twenty years' experience, and a mental understanding of the situation.

We need the standard, cannot do without it in fact. The bona fide fanciers constitute 5 per cent of the poultry breeders, and we need them. They breed as nearly to conform to the standard as possible. We get new blood from the foremost yards in the

land, of our own particular variety. From them we get feathers and shape, good minor points, undersize and sometimes inherent weakness: Undersize because the standard cuts for overweights; weakness, because they are often raised in limited quarters and in-bred too much. Line breeding is all right, but so eager are they to intensify some good quality, that the thing is carried too far and the flock deteriorated. From the hundreds or possibly thousands of blue-blooded birds the professional raises, there will surely be some blue-ribboned getters. The best birds from the flock bring what appears to the novice a fabulous price, but they are worth it. Then some of them, usually the greater part, readily command a good price because of the name. A few are sold on merit pure and simple, but they have the same blood as their more fortunate mates, and will invariably give a good per cent of superior offspring. Now what about us middle-class breeders, we who cater to the farmers, who wish a good market trade and raise good pure-bred stock that they may also supply the local breeders with superior cockerels to head their farm flocks? They will sacrifice many minor points in favor of size. Nine inquiries out of ten, ask for bone and vigor, first of all. This is not written as a plea for large birds, it is giving facts just as I have found them. One thing is certain; so long as I get wails for cockerels with size enough to build up a flock, I will raise the big fellows.

Illinois. M. G. Stearns.

Ask your neighbor to subscribe for The Homestead.

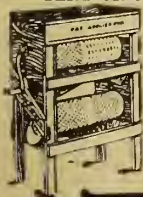
HERO CORN GRADER

INSURES A Perfect Crop

The kernels of corn which you seed this spring must be perfect, well filled out, with large germs and high feed value. They must be uniform in size to insure even dropping by your planter—just so many kernels to each hill.

The HERO CORN GRADER automatically sorts out all poor kernels and separates the good kernels according to size. Will handle any size and kind of corn. Result 95 per cent perfect.

SENT ON 30 DAYS' FREE TRIAL



Send for free book thoroughly covering the subject of seed corn and fully describing this wonderful Corn Grader.

C. A. PAULSON

2839 Colfax Av. S.
MINNEAPOLIS, MINN

POTATOES PAY

Make them pay by using the machines that really do the work—

CUT, PLANT,
SPRAY,
DIG and
SORT

There's nothing in
potato machinery
up to

ASPINWALL EQUIPMENT

Write for copy of our free book telling how to make money, growing potatoes.

ASPINWALL MFG. CO.
459 Sable St., Jackson, Mich., U.S.A.
Pioneer Makers of Potato Machinery



BEEES

Free samples of Comb Foundation and Bee Veiling. Free advice to beginners with our free catalog No. 2 of Bee-keepers' supplies will be mailed to you, if you send us a postal request today. DADANT & SONS, Hamilton, - Illinois

READ THIS CHALLENGE OFFER

on the ECONOMY CHIEF CREAM SEPARATOR



We believe the Economy Chief is the best and most satisfactory cream separator on the market today, regardless of price. We believe it to be the best in design, the closest skimming, the easiest running, the quickest cleaning; in short, the greatest separator value that money can buy. We have absolute confidence in the Economy Chief and we want every owner of cows to share this confidence with us. We want everyone interested in buying a cream separator to have an opportunity to find out for himself which is the best machine, which is **THE SEPARATOR TO BUY.**



HERE IS OUR CHALLENGE OFFER

Deposit in your local bank the price of the Economy Chief Cream Separator you want to try, or

Send us a letter of reference from your banker stating that you are a reliable person; then

We will ship to you at once, freight prepaid, the separator you order, with the understanding that you are to set it up and try it on your farm for sixty days. Give it the hardest kind of a test; if possible try it alongside some other well known standard make, such as the Empire, United States or De Laval. Compare our machine in actual operation with any other. Note the amount of cream you get from each. Compare ease of running, time consumed in cleaning, and make any other comparisons you can think of. Never mind about the price; what you want from a cream separator is **CREAM.** If any other machine selling even as high as \$85.00 or \$90.00 will do better work, will skim closer, will give better satisfaction than our Economy Chief at \$42.50, our advice to you is, buy the other machine and send ours back.



When you have finished your sixty-day test, if you are perfectly satisfied that you have the best separator on the market, write us saying that you want to keep the machine, and we will send you a bill for your separator and the freight charges we paid on it.

If at the end of sixty days you are not satisfied that the Economy Chief is the world's best separator, you don't need to even tell us the reason for your dissatisfaction unless you wish to; just drop us a line saying you don't want the machine. We will then send you a return address card to tack on the box and we will pay you for your time and trouble in making the test, setting up the machine, repacking it and hauling back to the station. You set your own price. We don't want you to lose one penny in trying out the Economy Chief for sixty days.

If you want to send cash with your order, as most of our customers do, you won't lose any of the benefit of the above CHALLENGE OFFER, for if at the end of sixty days you decide you don't want the machine, if you think after a sixty days' trial you can get along just as well without a separator, or if you have seen a separator in operation giving better results than the Economy Chief, just send it back at our expense, tell us how much we owe you for freight charges, hauling from and to the station, setting up and repacking, and we will promptly send you every cent of the purchase price, plus your bill.

This Is Our Challenge Offer and Our Whole Cream Separator Proposition!

Note the Reduced Prices for 1910

WE RECOMMEND THE BIG 600-POUND SIZE		
No. 23T51	New 1910 Economy Chief. Capacity, 250 to 300 pounds, or 120 to 145 quarts per hour. Price reduced to.....	\$27.90
No. 23T52	New 1910 Economy Chief. Capacity, 350 to 400 pounds, or 170 to 195 quarts per hour. Price reduced to.....	33.80
No. 23T54	New 1910 Economy Chief. Capacity, 600 pounds, or about 290 quarts per hour. Price reduced to.....	42.50



FILL OUT THIS SPECIAL ORDER BLANK

☐ **CASH WITH ORDER.**
If you are enclosing the full price, simply write the amount in this space.

☐ **CASH IN BANK.**
If you have deposited the purchase price of the separator with your local banker, make an X mark in this square and enclose your certificate of deposit properly made out and signed by your bank.

☐ **BANK REFERENCE.**
If you prefer not to send us the money, or to hold it in the bank subject to our order, make an X mark in this square and enclose a letter of reference signed by your banker, telling us that you are a responsible property owner.

☐ **FREE DAIRY GUIDE.**
Nearly everybody has a copy of our big General Catalog for our Cream Separator Catalog, but if you have not and want more information before ordering, make an X mark in this space.

Name _____

Postoffice _____

R. F. D. No. _____ State _____

P. O. Box No. _____ Street and No. _____

Iowa Homestead

Please write plainly and carefully.

We think our Economy Chief Separator is the best machine in the world. We want to sell you an Economy Chief if you think the same as we do, not otherwise, and we make this challenge offer to give you a chance to find out all about the Economy Chief **at our expense** and to prove our confidence in our own machine.

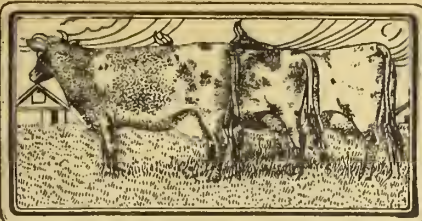
IF THE MAKER OF ANY OTHER CREAM SEPARATOR IN THE WORLD BELIEVES IN HIS MACHINE AS WE BELIEVE IN OURS, LET HIM MAKE YOU THE SAME PROPOSITION WE DO.

That's all!

SEARS, ROEBUCK AND CO., CHICAGO



DAIRY



METHODS OF CALF FEEDING.

According to the teaching of a bulletin from the Michigan station, the calf may be allowed to suck its dam a few times or for the first day or so, but should then be put in a separate pen. If the calf is strong and the cow's udder is in good condition it is best to separate them the first or second day, as the cow is more easily reconciled to the separation and the calf can be taught to drink more readily than if it has sucked the cow, for some time. If the calf is weak, it is better to leave it with the cow, as it will feed oftener and grow stronger, or if the cow's udder is inflamed, the calf will help to bring it back to proper condition. In any case the calf should be given the first milk or solostrum, as it has a stimulating and corrective effect upon the system.

When the calf is taken from the cow it may not drink at first, but after the omission of a feed it becomes hungry and as a rule can be taught to drink quite easily. The calf should be given the milk from its dam rather than from another cow, as changing

from one to another is likely to throw the digestive system out of balance and result in scours. For the first few days it is best to feed the calf three times a day, though it is not absolutely necessary. The milk should be fed in a clean pail, directly after milking, while still at body temperature. For an average size calf, weighing seventy to seventy-five pounds at birth, eight to ten pounds a day, divided equally between the feeding periods, is sufficient to begin with. If the cow is a high tester; that is, gives milk rich in butter fat, it is advisable to feed that portion of the milk which is first drawn from the udder, as it will have a lower butter fat content and will be less apt to cause digestive disorders than the richer portion. The amount fed should be increased gradually and great care taken to avoid overfeeding. At the end of two weeks the calf may be given twelve to sixteen pounds daily, divided equally between the morning and night feeds. In case scours develop the feed should be reduced immediately, cutting down at least one-half, and, if necessary, medical treatment resorted to. The time for beginning the substitution of skim milk in place of the whole milk will vary depending upon conditions. Whole milk feeding is necessarily expensive, and should not be continued longer than necessary to produce good results. When feeding for dairy heifers to be kept and grown on the farm, the skim milk supply may begin at two or three weeks of age, but where it is desired to produce heavier weights at an early age, it is better to feed whole milk up to four or five weeks before starting the substitution. The change should be made gradually so that the calf's stomach may adjust itself to the different conditions without trouble. Begin by replacing one pound of whole milk with an equal amount of skim milk at each feed the first day, and replace two pounds the second day, and so on. In that way if a five-week-old calf was getting sixteen pounds of whole milk a day, eight pounds at a feed morning and night, it would take eight days to make the substitution complete, and the calf would be adapted entirely to the skim milk ration when it was six weeks old.

The skim milk should be as nearly the same from day to day as possible, and should always be sweet. Many farmers fail in the attempt to raise skim-milk calves with satisfactory results simply because of the filthy and unsanitary methods employed. The milk should be warmed to body temperature, especially with the younger calves during winter. The amount of skim milk fed may be increased to twenty pounds per day, but it is not generally profitable to feed in larger quantities. The length of time to continue feeding milk will vary with conditions, but ordinarily it does not pay after the calf is seven or eight months old, except when the supply is plentiful and would otherwise be wasted. When it is two or three weeks old the calf can be taught to eat a little grain by throwing a handful in the pail after it has finished drinking the milk. The grain should not be put in the milk, as the calf will swallow it with the milk without much mastication and it will not be properly digested. The calf will soon learn to look for the grain, and at five or six weeks of age should be eating a pound or so a day. A good grain mixture for feeding in this way may be made of three parts corn meal, three parts ground oats, one part bran and one part oil cake, by weight, and the amount fed should be increased gradually so as to allow from one-half to one pound per day per 100 pounds of weight of the calf. This is liberal feeding, and should keep the calf in good condition and give good gains. Lighter feeding may be followed in many cases with good results and less cost, as in raising dairy heifers on the farm. Hay feeding should be started along

LARGER CREAM CHECKS



EVERY COW IS
MADE MORE
VALUABLE BY
USING
THE GREAT
WESTERN
CREAM
SEPARATOR

THIS separator gets all the cream from the milk under all conditions—warm or cold, fresh or stale.

The Great Western skims close because it follows every law of nature.

It is fully equipped with imported ball bearings which means easy running—has low-down supply tank.

The crank is just the right height to make the machine easy to turn. Gears run in oil bath—practically self-oiling—low-down, compact construction, with a wide base to catch the waste.

Made as accurately as a watch, and is as good as our Great Western Manure Spreader.

Increases your yield of cream and butter \$15.00 per cow each year.

Ask your dealer about the Great Western, and don't let him work any substitute game on you. It is your money you are going to spend, and we guarantee the Great Western to be satisfactory to you. Any kind of a test you want.

The Great Western is the "World's Best." If interested in larger cream checks, write today to our nearest office for our FREE CATALOG No. J42.

Smith Manufacturing Company
158 East Harrison Street, Chicago, Ill.
Minneapolis, Minn.; Omaha, Neb.; Columbus, O.
Kansas City, Mo.; Indianapolis, Ind.

Great Western

KIMBALL'S DAIRY FARMER

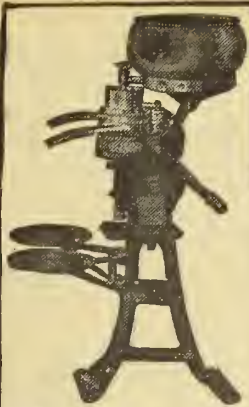
Is a national dairy magazine, ably edited by the best dairy authorities in the country. It is handsomely printed and illustrated, and issued twice a month at 50 cents a year. It should be read by every cow-milking farmer in the country. It publishes full reports of the big Iowa Cow Contest.

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with the grain. Alfalfa, if it is available, or good, bright clover hay of fine quality, is best for calves. Alsike clover is relished by the young calf and makes an excellent feed. It is a good plan at haying time to select some of the best and finest of the clover and put it aside especially for calf feeding. Coarse, woody clover or

timothy contains too much crude fiber and indigestible material to be fed to young animals. Alfalfa and the clovers, especially the former, are very rich in protein, the most essential element for growth and development of the body. Hay feeding should be increased gradually like the grain, but the calves may be fed all they will eat

up clean. Silage and roots may be included in the ration with good results, but should not be fed until the skim milk ration is well established, and should be dropped from the feed in case scours develop.

Fall calves may be turned on grass in the spring as soon as possible, but some grain feeding should be continued even then, depending upon the condition of the pasture. In the dry summer months of July and August, when the grass is short and dead, some green feed, if available, would be a valuable addition. The calves should have access to water after they are three or four months old, as the milk furnished will not be sufficient for them to drink, and during hot weather, especially, they will drink considerable quantities of water in addition to the milk.

LIGHT OR DARK HOLSTEINS.

Discriminating buyers are today refusing to pay the fancy, or at least the fanciest, prices for dark-colored Holsteins and yet opinion is by no means unanimous in favor of the light colors. Many much interested parties feel that the fad may easily be carried too far. Just now, however, they realize that the white or near white animals are much in demand, but they are unable to modify it. Nevertheless, it is safe to predict that this popularity will weaken and that the emphasis will eventually be placed where it rightfully belongs—upon conformation, constitution and performance. We evidently share this belief with some who are still more intimately associated with the breed. One prominent Holstein enthusiast has the following to say upon this question:

The craze for white Holsteins is a move in the wrong direction and much to be regretted. Beginners are much misled by it and should be set right. There is nothing in color markings but their beauty and light-colored Holsteins are no larger producers than dark ones and yield no larger quantities of milk. The rich milkers are not all light colored nor are any notable percentage of them so marked. If there is any objection on grounds of color markings it is probably against nearly white Holsteins, which are subject to the same general tendencies that all blonde animals are.

If, as this writer intimates, there was any connection between color and performance we would have every reason to encourage a preference. But experience and observation have fully demonstrated that color has nothing to do with milk-producing capabilities. The preference for any particular markings are necessarily arbitrary and consequently should not be followed to too great lengths.

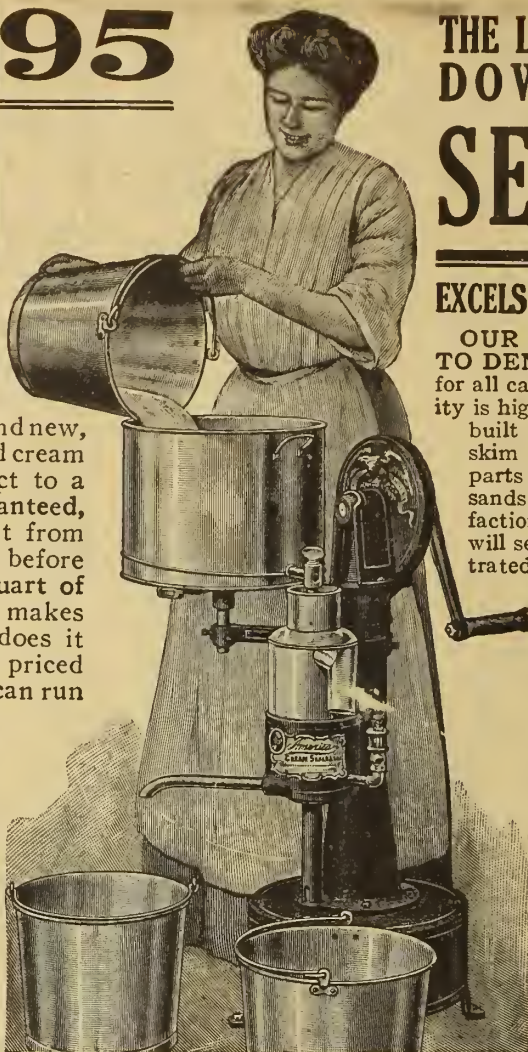
IOWA DAIRY MEETING.

There will be held at the Chamberlain Hotel in Des Moines, at 10:30 a. m., Thursday, January 27th, a meeting of the dairy cattle breeders and dairymen of Iowa, for the purpose of taking up matters of mutual interest and particularly to arrange for continuing the Iowa Cow Contest another year. It is hoped that this meeting will be large-

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It is a solid, fair and square proposition to furnish a brand new, well made and well finished cream separator complete, subject to a long trial and fully guaranteed, for \$15.95. It is different from anything that has ever before been offered. Skims 1 quart of milk a minute, hot or cold, makes thick or thin cream and does it just as well as any higher priced machine. Any boy or girl can run it sitting down. The crank is only 5 inches long. Just think of that! The bowl is a sanitary marvel; easily cleaned, and embodies all our latest improvements. Gears run in anti-friction bearings and thoroughly protected. Before you decide on a cream separator of any capacity whatever, obtain our \$15.95 proposition.



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ly attended. The contest above referred to, that was so successfully carried on last year, unquestionably stimulated interest in up-to-date dairying and a large amount of good will be accomplished if the project is continued year after year.

A Nutritive Ratio.

To the Editor of The Homestead:

The matter of a nutritive ratio is one that is not thoroughly and generally understood. A food is composed of two main constituents, namely, carbohydrates and protein. The carbohydrates are composed of the elements carbon, hydrogen and oxygen, each in different amounts. The variation in the amount of these elements in these food constituents results in a constituent of different natures and properties, yet with the same main

addition, some phosphorus, sulphur or other different constituents.

An animal, since it needs for its maintenance both carbohydrates and protein, must have a food that contains these necessary food constituents in the right proportion. For a lack of one and an abundance of another will prove detrimental to the animal. A food or foods containing these in the right proportion is called a balanced food, or balanced ration, and the amount and proportion of one food constituent to another is called the nutritive ratio.

Knowing from and by experiments, the amount of each food constituent necessary for the best results from an animal, feeding standards have been made. That is, the amount of carbohydrates necessary to balance a certain amount of protein. Thus, in the

tain all the compositions of the different feeds, and by the use of these the nutritive ratio of a feed can be determined.

The fat content or ether extract of a feed is supposed to be 2.4 times greater in value in the production of heat, than the carbohydrates, and for this reason is multiplied by 2.4.

Taking for example the nutritive ratio of milk: It is found it contains 4.75 per cent milk sugar, which corresponds to the carbohydrates of a feed. It is also found that the fat content or ether extract is 4 per cent and the protein content is 3.5 per cent. By multiplying the fat content by 2.4 and adding the result to 4.75, the milk sugar, the resulting answer is 14.35. Dividing this by the amount of protein in the milk, which is 3.5, the nutritive ratio of 1.5 is secured. This lit-

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An Indiana Silo saves half your feed, it pays for itself in one season. High priced feed makes it imperative that you investigate and decide upon your silo now. The best materials make Indiana Silos by far the best. We own saw mills and timber lands, and thereby get stock selected, seasoned and prepared exclusively for our silos.

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We can't begin to tell you all the money saving details here—our book on Silos, Silage and Economical Feeding tells. Don't think of deciding on any silo until you have read this book and have done some thinking about what our exclusive points of merit mean to you.

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Note—We are distributors in the Northwest for the celebrated Comax Ensilage Cutter.



Two animals, the produce of one Guernsey cow, exhibited in 1909 by Mr. William M. Jones, proprietor of the Sunny Valley Farm and herd at Waukesha, Wis. This pair of heifers was the favorite in every show ring where shown last fall. They splendidly illustrate the work being done by this breeder. Waukesha county (Wisconsin) is proud of its Guernseys and of none more than the Sunny Valley herd. See page 52.

features. For instance, sugar is a carbohydrate and so is fat, yet one is sugar and the other fat, simply because of the variation in the amounts of carbon, hydrogen and oxygen in each.

The protein constituent, however, is of an entirely different nature and is used by the animal that consumes it, for a different purpose than the carbohydrate. The one great differing feature of a protein from a carbohydrate in composition, is that it contains nitrogen and a carbohydrate never does. A protein may contain carbon, hydrogen and oxygen, or it may contain all of them, but it always contains nitrogen. A protein may also contain in

case of a dairy cow, the standard or nutritive ratio determined is 1 to 5.7. That is to say, for every one part of protein in a food, it is necessary in order to have the food balanced, to have 5.7 parts of carbohydrates present.

To find the nutritive ratio of a food, it is necessary to multiply the fat content of a food, or, as the fat content is commonly called, the ether extract, by 2.4, then add to this the amount of carbohydrates, and divide this result by the protein content of the food. If the quotient be less than 5.7, the ration is said to be narrow; if greater, the ration is said to be wide.

Tables have been compiled that con-

tle illustration also shows how nature has secured a well-balanced ration in milk. Augustus Forest.

Story county, Iowa.

THE ONLY WAY TO BUY A FARM.

Buying land for a home without knowing all about it is blind and foolish speculation. Settlers or homeseekers should go down and investigate conditions for themselves before buying. The Western Louisiana Settlement, at Pickering, now developing, situated along the Kansas City Southern Railway, has issued an illustrated booklet, free on application by any one interested in that coming country, having plenty of rainfall, with healthful and pleasant climate, where good farming and the best fruit and truck land in this country can be had for \$10 an acre, on easy terms. Address J. D. LeBrie, General Land Agent, 539 Keith & Perry Building, Kansas City, Mo.

Young People to Front in Corn Growing.

Leaders in practical educational matters are more and more turning their attention to the boys and girls, the young men and young women. The programs carried out at the old-fashioned kind of farmers' institutes were designed to interest grown-ups only, while the young folks were supposed to be at home caring for the home and looking after farm affairs.

A case in point which marks the change that is taking place is found in Washington county, Neb., in which county farmers' institute meetings

has co-operated with the members of the institute staff, and as a result of this co-operation, a short course has been established which has resulted in giving instruction in judging of all classes of farm products, including stock. Domestic science has been added and as a result of this addition, something over eighty ladies have been enrolled in that department. The success of the short course has been very largely due to the efforts of Prof. E. A. Nelson, of the Nebraska University Farmers' Institute Department. Professor Nelson has been singularly fortunate in getting the boys and girls interested in the judging of farm products and his success in this regard strikes at the very root of the whole matter, because the boys of today are the farmers of tomorrow.

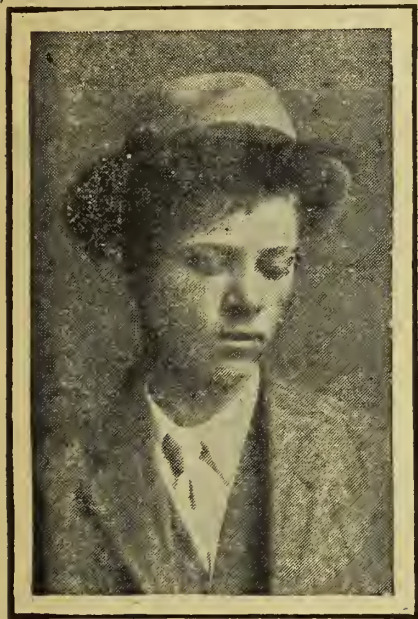
There were 130 exhibitors of corn at the last Blair show, while an apple show was also held at the same time that would do credit to any state or national exposition. Premiums on apples ranged from twenty-five cents to five dollars, and the interest shown in that department indicates that the short course is going to boost horticulture as well as corn.

Possibly the most notable exhibit of corn made at the last Blair show was the one shown by one of the boys, Chrissy Schmidt, who not only won first in the boy's class, but succeeded in downing the first premium corn in the men's class. It was afterward learned that young Schmidt had succeeded in defeating the sample of corn that had won first place in the Nebraska class at the National Corn Show. The sample won over \$100 in premiums and it was afterward sold for \$26. The Homestead regards itself as being fortunate in being able to introduce at this time this young corn grower and his prize sample of ten ears.

Narrowing the Roads.

To the Editor of The Homestead:

I saw in The Homestead that Governor Carroll, of Iowa, proposes taking off ten feet from each side of the average country road and returning it to the farmer whose property adjoins. I have been looking for some time for a law of this kind to be passed in Iowa. Forty feet is plenty wide enough for a road and any more is worse than wasted, as it only grows up to weeds and brush and it is an expense to keep them cut. Here in Illinois the town pays for cutting them, but I never knew it to be done until after they had gone to seed and I have been told that it costs the town more to cut the

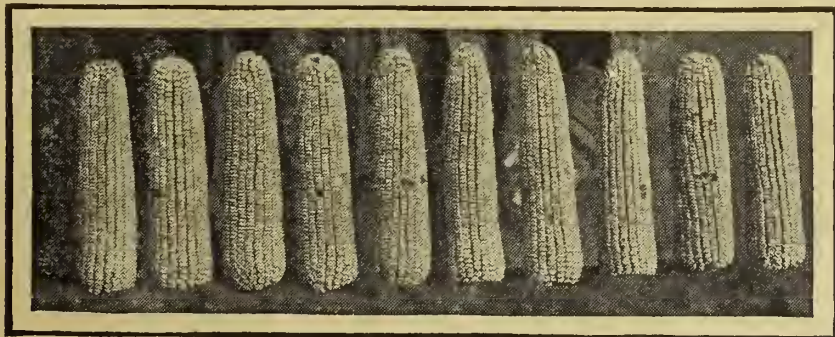


CHRISSY SCHMIDT,

The winner over all at the Blair, Neb., Corn Show.

have been held over a period of twenty years. Without doubt these institutes have touched the agriculture of that county most effectively. The institute meeting was formerly held at Arlington, but in recent years the progressive citizens of the town of Blair have succeeded in landing the institute. Year by year the interest has increased, and with the adding of a corn show a few years ago the week of the meetings has become the most talked of week of the whole year, not only by the citizens of Blair, but by the farmers of the surrounding country.

Some idea of the interest that is manifest in things that are up to date



PRIZE TEN-EAR SAMPLE OF CORN SHOWN BY CHRISSY SCHMIDT, AT BLAIR, NEB., CORN SHOW.

relating to agriculture may be obtained when we state that at the recent show held at Blair, the sum of \$750 was offered in premiums. The state agricultural college at Lincoln,

weeds than to work the roads. Besides they only cut what they can with the machine and the result is that the roads are grown up to brush and sweet clover, which is almost impossible to get rid of. I bought a farm adjoining mine over thirty years ago and there was a good deal of sweet clover in the road. I have been very careful ever since not to allow any to go to seed. I have pulled all I could and cut the rest with a spade, yet there is just about as much there as ever.

I have land in Iowa and I notice each year when I go out there that there is more sweet clover along the road than the year before and unless there is something done it will soon be just as bad as it is here. But if there could be a law passed making the roads forty feet wide and returning the ten feet on each side to the farmers who paid for it, they should surely have pride enough to keep the road free from weeds and brush.

I also believe the governor is right

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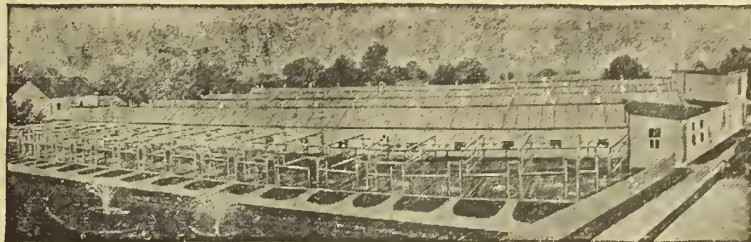
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We wish to say in appreciation of your roofing that we never thought it was possible to procure a roofing of such quality for so little money.

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The Horse-Collar Man



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The contest is on, now is the time to start. I am going to give absolutely free a \$1000 farm to the boy who grows the best ear of corn for me this year. No boy barred. I furnish fine Pedigreed Seed Free, so all may have an equal chance. If you fail on first prize, you have a chance at ten other prizes of a \$50 town lot each. There is a prize of some kind for every boy competing. Only one ear required. I want to get in closer touch with my host of farmer boy friends and I want to distribute a higher grade of seed corn among them. You furnish the energy, I furnish the seed and the prize. Let us get started. Write to-day for particulars of this great contest to

WILL B. OTWELL, The Farmer Boy's Friend,
Carlinville, Ill.

in the manner of making roads—more dragging and less grading. In some places here the roads have been graded up too high, but now they are using a light grader throwing the dirt toward the middle of the road, leaving the road smooth so the water will run off. In some towns they lay a tile on one side of the road, the town paying for the tile and for putting them in, and the farmer who owns the adjoining land doing the hauling. When the frost goes out in the spring the roads are, of course, bad for a short time, but they soon dry out where there is a tile on one side. I am not a very strong believer in hard roads. There was a mile of macadamized

road made here only a few years ago at a cost of about \$4,000.00 and now it is no better than the others. There is no road as good for a horse to travel on as a dirt road and it costs but little to keep it in repair.

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\$500 in Gold
Mammoth catalog free, telling of four Farms to be given away, absolutely free, for the biggest oat yields.
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and so reap a bountiful crop in any State, North or South. No other seed can produce such a perfect stand, such a vigorous, healthy growth, and mature a larger and more perfect crop so extremely early than

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Our Faribault strain of Minn. Red, Yellow and White Globe Onion Seed is unexcelled in earliness, great keeping qualities & wonderful productiveness, yielding from 800 to 1300 bus. per acre. 3 Packets, one of each for 25 cents.

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HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

FROST FIGHTING.

The protection of blooming orchards in April and May has always been a live question, and interest in it is growing. Now comes a question from a Missouri reader, as to the results of experiments in artificial warming. Our fathers made crude attempts to raise the temperature upon frosty nights, by firing brush heaps and burning coal tar upon the windward side of the orchard. Modern orchard warming is a development of the same idea, but the work is enlarged and systematized.

In the apple regions of the mountain states this method has apparently reached perfection. For some years it has been practiced upon a large scale and with very favorable results. Orchard heaters, which are practically small sheet iron stoves, are spaced in the orchard four, six, or eight rods apart, for ideas differ some as to the required number. But in all ordinary cases thirty per acre is considered ample and some risk it with less. The fuel used is coal tar with any refuse. The tar makes a heavy smoke which settles over the trees unless there is much air stirring. When the danger time comes the fruit grower watches his thermometer, and if it appears certain about midnight that a frost is coming, he goes out and starts his fires. These will require careful attention, and the owner will need help. One man can watch the heaters over four or five acres. The expense, as may be seen, is considerable, but the work will need doing only two or three times per season, in many cases only once. And the heaters properly cared for will last for many years. A fraction of one good crop saved will pay for all the expense necessary for ten years.

BEST FOREST TREES.

In planting timber for commercial purposes there should be some care exercised in the selection of varieties. Any trees are better than none, but there is a choice. The cottonwood will make good saw logs in forty years. This has been proved by actual experience, and it will make twice as much timber as any other tree that can be grown in the same time. Still it would not be wise to plant cottonwood exclusively. There are other trees which for quality, will be more valuable after they are grown.

A black walnut tree at forty years will be only half as large as a cottonwood, yet it will be worth twice or three times as much. Yet it should be noticed that much the same kind of soil is most favorable to each variety. The cottonwood is easier to start than the walnut, and is of more rapid growth, especially if you take the improved sort called Carolina poplar. For walnut the seed must be planted where the tree is to grow.

The green ash is a tree which should be planted largely upon low, moist lands. It makes a straight even-sized tree, with few branches, and is very useful as soon as it gets a diameter of three or four inches.

The hardy catalpa, has its place in forestry, but the difficulty of getting pure seed has discouraged its use. It is no small loss to labor with a grove for ten years, and then discover that you have something worthless. European larch is on the list of good trees to plant. White pine is valuable if you have moist, sandy land. If you plant white oak you postpone the time of harvest for seventy-five years. Avoid maples, elms and box elders.

A Useful and Beautiful Tree.

To the Editor of The Homestead:

An elm tree was recently cut in Jefferson county, Iowa, that is said to have been 140 feet high, spread of limbs seventy-two feet, thirty-six feet to the first limb, five feet in diameter at the stump and was 325 years old. It was in good health and grew at the same rate every year. How much longer it might have lived is only a matter of conjecture, but it is next to a sin to chop such a tree. Think of what a silent history such a tree has,

BIG MONEY IN OATS



STIFF STRAW WHITE BERRY BIG YIELDER

Look at This Cut: Photograph Taken of Two Stalks from Galloway Brothers' Field; Over 200 Kernels to the Stalk.

GENUINE REGENERATED SWEDISH SELECT
Not Every-day Swedish Select—Remember, there's a Difference.

THE GREATEST OAT ON EARTH

If You Raise the Right Kind. Here's Your Chance to Get Them. Imported Canadian Seed Oats for Sale.

THEY have proven their worth in this country from different reports we have received from farmers who bought last year—some of them doubling, and in many cases tripling their crops from this seed, as compared with their old run of inbred seed.

Send for free sample which will speak for itself, or send ten cents for good-sized packet of one or both kinds of these oats.

Try some of these wonderful oats. We make a specialty of growing seed oats on our big Canadian farm. New, clean land; no weeds; located at LaJord, Sask., Canada. We have best-known varieties. Regenerated Swedish Select went 116 bushels to acre. Most wonderful oat we have ever seen. This may look like a big yield to farmers of this country, but it is true just the same. They stood 5½ feet tall, have stiff straw, large, plump, white grain, very thin husk, and an early variety. For this seed we originally paid Garton Bros. of England, \$2.00 a bushel for 250 bushels, put them in on specially prepared ground, and will vouch for their quality.

We also have a quantity of Early New Market Oats—Canada's very best-known variety and an enormous yielder.

Here's what farmers write us who bought last year:

W. McConnell, Baldwin, Wis.—"We threshed out 85 bushels per acre; stood up better than any other oats."
John Stimpny, Lowell, Ind.—"The came up to my chin and nose before they started to head."
G. F. Gross, Erhart, Ohio—"Sixty bushels per acre, weighing 40 pounds per bushel. Very good oat and do well in this climate."

John F. Otto, Dows, Iowa—"Stood up in fine shape; turnout was good. 90 bushels to acre by weight. They weighed 41 pounds to the measured bushel. B.B. Maguire, Rush City, Minn.—"I planted eight acres of Early New Market, and he 500 bushels in my granary machine measure. They weighed about 34 or 35 pounds per bushel. Stood up better than two other kinds I had. No question but what you could sell a lot of it here for seed."

W. C. Bryan, Jordan, Minn.—"Threshed 54 bushels per acre. Only wish I had gotten more of them."
Adam Czerwinski, Chetek, Wis.—"Early New Market turned out good. Went 100 bushels to acre. Weighed 34 lbs. per bushel."

Wetzel Bros., Floyd, Iowa—"Your Early New Market oats did just wonderfully; grew 4½ ft. tall; stood up fine till they were cut; went 65 to 70 bu. per acre. Had other oats that went about 25 bu. per acre by measure. Could sell all we raised a dozen times over to our neighbors."

This is what people say who have tried these oats in this country. We believe it will pay you to try some of this new seed. There is more money year in and year out in oats than any other grain, if you raise the right kind. They are easy to raise and generally a sure crop.

Why are oats higher today than they were in former years? Simply because the farmers have been sowing the same old oats over and over again—oats that are inbred and run out, and yet they wonder why they do not get a better crop.

Try some of our new seed. There is big money in raising even 50 and 60 bu. of oats to the acre. At the present price of land you cannot afford to sow inferior, inbred seed any more than you can afford to breed your herd to an inbred bull. It is as easy to put in and harvest a big crop as a small one.

Remember, Northern-grown seed is the kind of seed for this country. All the oats we have to offer are guaranteed to be clean, free from foul seed; and, according to Canadian Government Grain Inspector, they grade No. 1 White—almost an unknown quantity in the United States.

Here is what Professor M. L. Bowman, former professor of Farm Crops, Iowa Agricultural College, says: "I visited Galloway Brothers' big farm in Canada, and was much impressed with the way they farm. I saw these seed oats they are offering. They are fine, pure, clean, big oats, and I believe it will pay any farmer to try ten or twenty bushels of this seed."—M. L. BOWMAN.

If you are interested in any of this grain, write us at once for free sample, or send us ten cents for a packet of one or both kinds. We will also mail you free our little booklet entitled, "Big Money in Oats and How to Grow Them," with authority on how to increase the yield. The oat yield of this country could be doubled if the farmers would follow instructions in this book, gotten out by Prof. M. L. Bowman and Galloway Brothers, Oats Specialists.

Don't wait until it is too late. Many people were disappointed last year in not getting seed from us, because they waited until our supply was run out. All Minnesota, Wisconsin, North and South Dakota, Montana and northwestern orders will be filled direct from Minneapolis, Minn.

Address all communications to
GALLOWAY BROTHERS, 102 Jefferson Street, WATERLOO, IOWA

12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruiters, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS of HARDY "BLIZZARD BELT" fruits by next mail. Address

THE GARDNER NURSERY COMPANY, Box 202, Osage, Iowa.

Burpee, Philadelphia,

is sufficient for the front of a post card. If you will write your own address plainly on the other side, we shall be pleased to send THE LEADING AMERICAN SEED CATALOG. An elegant book of 178 pages, it tells the plain truth, and should be read by all who would have the best garden possible and who are willing to pay a fair price for seeds of the

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We Will Send Upon Application to Every Farmer

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Gregory's

"PURITY BRAND" CLOVER is free from foul weeds. It is plump 1909 seed, cleaned and tested. You can't buy better. Prices low. Write today.

The Adams Seed Co., Box 1, Decrahn, Iowa.

SEED OATS

Ferguson's Special No. 1 White Early New Market Seed Oats

Has sprangley, heavy heads; large, plump berry. Yield 1909, 75 and 100 bushels per acre. Weighs 50 pounds per bushel.

SEND for sample and prices.

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Improved Yellow Globe Onion Seed

Best rust-resisting onion seed ever put on the market. Thoroughly tested by the largest onion growers. A tremendous cropper. No onion equals it for storage. Our customers in 1909 harvested over 800 bushels per acre. \$1.75 per pound, prepaid.

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PRICES BELOW ALL OTHERS

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TEST it any way you please for ten days; and, if not perfectly satisfactory, return it at our expense and get your money back. **Largest exclusive Seed-Corn House in the World.** 30,000 bushels of the standard varieties—**Reid's Yellow Dent, Improved Leaming, Improved Boon County White, White Dent and Favorite White.** All seed selected early and dried by STEAM HEAT and Fans. Write today for our beautiful corn book and samples—free. Address,
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Write to-day; Mention this Paper.
SEND 10 CENTS
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A Seed Drill and Wheel Hoe is indispensable—not only in a village garden but on largest farms.
Farmers should grow all manner of vegetables and "live on the fat of the land." Should provide succulent roots for Cattle, Swine, Poultry, and save high priced feed stuff. Great labor-saving tools of special value for the home as well as the market garden. Send for free book.
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To induce you to give my seeds a trial and make you a permanent customer, I will send you for 10c. (silver or stamps) to cover cost of postage and packing, my **Prize Collection** consisting of 17 varieties radishes; 10 varieties lettuce; 15 varieties cabbage; 8 varieties carrots and my **Wild Flower Collection** of over 50 varieties choice flowers.
This collection comes in a coupon envelope which when returned is good for 25c. on a \$1.00 order.
Send Today Give my seeds a trial at my expense. Send for these seeds today. Catalog free. Complete line of poultry supplies.
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Selected, Butted, Graded and Tested.
GRAIN, GRASS AND VEGETABLE SEEDS
J. B. ARMSTRONG & SON
Originators of the Seed Corn Business.
CATALOG FREE. SHENANDOAH, IOWA.

325 hot summers and cold winters. How many beautiful songs the birds have sung in its leafy branches. How many beautiful thunderstorms and other sights adorned by Nature's beauty has it witnessed. The noble redman must have admired its refreshing shade and under its spreading branches wooed his dark-eyed maid.
John G. Willis.

Why We Prune.

In the management of fruit trees, perhaps no other factor is of greater interest or more significant than that each section of the country has a shape or ideal of its own to which each kind of tree is made to conform. We are struck by the differences between the low-growing fruit trees of the central West and the lofty ones on the Atlantic coast; we contrast the dense heads, or branching system, of the West, and the more open, or spreading heads of the East. Still more striking are the espaliered trees of Europe, whose limbs are often trained like the ribs of a fan in flattened form upon a trellis or against the sunny side of a wall.

Each of these different systems of pruning or shaping is a means of adapting the tree to its environment. In the foggy climate of western Europe it is desirable to admit all possible sunlight to the parts of the tree. The thin, open head exposes the fruit buds, flowers and ripening fruits to the favorable influence of the sun, thereby furthering what is secured in part by planting the tree on a south slope or on the sunny side of a wall.

In the dry, sunny, continental climate of the central West of our country, a system of pruning quite opposed to that of western Europe is employed. Throughout the prairie section especially, one is struck by the low, dense heads of the fruit trees. The trunks of the trees are usually from one to three feet high, thus securing low heads or branching systems. These low heads help to insure the trees against injury from prairie winds. They lessen the number of windfalls among the fruit. They shade the ground under the trees, prevent undue loss of moisture from the soil. Their shade keeps the soil from becoming too hot during the intense sunlight in summer and opposes sunscald, which sometimes injures the exposed trunks and main limbs of high-headed, open-branched trees. Low heads, also, in some degree, retard the blossoming period, rendering the flowers less liable to injury from spring frosts, which here so frequently follow the first warm, sunny days of early spring. The denser branching system aids in accomplishing the same purposes which are sought through the adoption of the low head.

In the various sections of the world where fruit growing is carried on, some intermediate form between the two above extremes is adopted to adapt the height and density of the head of the tree to climatic influences. In our Atlantic coast states, where there is brighter sunlight, more wind and less moisture than in western Europe, and yet less sunlight, less wind and more moisture than in the continental climate of the West, the middle ground is adopted with respect to height and density of the head of the tree.

In extreme continental climates, the low, dense head is in keeping with the selection of a north or east slope for the orchard. This is an interesting contrast to the south slope or sunny location preferred in western Europe.

In recent years attention is being given to shaping the tree so as to oppose fungous diseases. Leaf rust, fruit scab, many of the rots and many other maladies which affect fruit trees are now known to be due to parasitic fungi that attack the parts of the tree or its fruits. Many of these parasites thrive better in cool, damp, shady places than they do in sunlight, just as molds develop in cellars or damp places. In a foggy, humid climate, the high, open head admits sunlight and air and opposes the development of these diseases. In a dry, sunny or windy location, it may not be necessary to maintain an open head to secure enough sunlight and aeration.—(Prof. J. C. Whitten in Missouri Report.)

DO YOUR OWN MIXING.

Take a hint, do your own mixing. Rough on Rats, being all poison, one 15c box will spread or make 50 to 100 little cakes that will kill 500 or more rats and mice. It's the unbeatable exterminator. Don't die in the house. Beware of imitations, substitutes and catch-penny, ready-for-use devices.

New Vegetable Peaches

A genuine wonder. Who would not grow them? Who would not eat them? Perfectly delicious. Nothing like them under the sun. Grows from the seed in 80 days. Size of an orange. Of easiest culture—marvelous yielders. Success everywhere. Only 10 cents per packet with full directions; 3 packets for 25c. I give a nice present (worth 20 cents) with every order. Illustrated catalog, premium coupon accompanies the seeds. Don't delay. Address,
A. T. COOK, Seedsman, Hyde Park, N. Y.

10c FLOWER GARDEN 10c

Our Mammoth Collection. 100 Easy Growing Varieties.

This is without question the grandest collection of flowers ever put up. They will produce a perfect cloud of bloom and fragrance from early summer until the snow falls. New beauties and wonders will open up every day. You can have bushels of blossoms of gorgeous combinations of shades and colors. Here are some varieties included:

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| Asters, all colors | Prize Poppies | Sweet Alyssum | Portulacas, 10 varieties |
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Reid's Yellow Dent, Wimples' Yellow Dent, Early Murdock, Dakota Gold Mine, Clay County White, Minnesota No. 13, Pride of the North, Farmers' Surprise (white) extra early. All South Dakota grown. Booklet B tells all about it, **FREE.** Write for it, do it now.

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Diamond Joe's Big White—A strictly new variety. None like it. It is the Earliest and Best Big White Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from thoroughbred inherited stock; every stalk bears one or more good ears, because scientifically handled, thoroughly dried and properly cured and had the most rigid examination. Big Seed Catalog **FREE.** It tells about all best farm, grass, garden and flower seeds grown. Write for it today.
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EVERY lot of seed that we put out is subjected to a vigorous germination test. Write for our catalog, explaining our Breeding and Testing Systems and **WHY OUR SEEDS WILL GROW.** Ames experts select and test our seeds.
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Adapted for all central states. Ten other kinds. Write today. Circular and sample free.
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Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped subject to your own test. Send for free catalog.
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GUARANTEED. Best by test. Treated for smut. Does not lodge or rust. \$1 per bushel, single bushel lots; 85 cents, 10-bushel lots or over. **BAGS FREE. Aye Bros., Second St., Blair, Neb.**

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250 Plants, \$1. your choice; Sen. Dunlap, Warfield, Crescent or Excelsior. Send for my **Free Illustrated Strawberry Book.** The Wildhagen Strawberry Beds, Waterloo, Ia.

When writing please mention this paper.

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Send 10c for packet of our wonderful Earliest Tomato and receive four 10c PACKETS **FREE** of our latest improved varieties: 1 each Cabbage, Cucumbers, Melon and Pepper. Also 25c cash certificate for 5 free packets, your selection, or apply as 25c cash order. Send 10c today and receive all above. Our big 100-page catalog free. Address
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Strawberry Plants THE best varieties Write for catalog. **W. W. Thomas, THE STRAWBERRY PLANT MAN, ANNA, ILL.** Rhubarb and Asparagus roots

Low Prices for Hogs.

To the Editor of The Homestead:

The recent article published in your paper in regard to hogs selling for about two cents a pound in 1847 at Macomb, Illinois, brings up some old recollections. When I started to come to Adams county in May, 1858 I bought a ticket in Chicago for Burlington, Iowa, but when we got to Oquawka Junction the conductor told me the Mississippi river was seven miles wide at Burlington and the ferry boat couldn't run for the trees. He said I would have to get off there and a train would take me to Oquawka in the evening and a boat would take us down the river. There was no building of any kind at the Junction, but somewhere from twenty to forty rods away I saw what used to be called a Kentucky double-log house and a dozen or fifteen people in front of it. I walked down there and found it was passengers that had been dropped off of other trains and the owner of the farm talking to them. After a while some one asked him how much land he had and he answered that he had two hundred acres. A stylishly dressed fellow spoke up and said he wished he was as well fixed as that and then the old man went on and told us that he came there in 1832 and brought fifty dollars in gold, entered forty acres of land, and that it took him ten years before he could raise another fifty dollars to enter another forty acres. (Nothing but gold would pay for land then.) Eight years afterwards he said they began to build in Oquawka and he planted lot of potatoes and made enough out of them to enter another eighty acres, and after that he got the other forty.

The first hogs I had to sell was in the fall of 1861. The war was on and one buyer bought up two or three hogs in Adams county and paid a cent a pound, drove them to Bur-

lington, and when he came back he said he didn't want any more. James Arbuckle lived five miles southeast of Villisca, Iowa, that year and he told me he drove sixteen fat hogs to Clarinda that averaged three hundred pounds. He wanted some salt to salt his own pork with but they told him that was cash and they couldn't let him have it for hogs, so he got calico enough to make his wife a dress and some to make the children some aprons and they told him this included the total value of his hogs. (Calico was sixty cents a yard and I have seen just as good sold since for four.) "And," said he, "on my honor, I took those sixteen fat hogs under my arm and carried them home sixteen miles on horseback." There was one year, I think 1877, my book says I bought corn that year for twelve and a half and thirteen cents. The farmers filled up the stock yards in Corning but could get no cars for some time and Reuben Scholin sold a car load of hogs for \$1.90 per hundred, and I, myself, sold a car load at about \$2.08. They were worth in Chicago from \$2.50 to \$2.75. So the boys can see it hasn't been all fun for the old folks. As to what they had to buy, nearly everything was, at different times, from one and a half to two or three times the present price. Joseph Beath.

Adams county, Iowa.

Aberdeen Angus Affairs.

To the Editor of The Homestead:

All breeders of Aberdeen Angus cattle should feel encouraged by the victories the breed has won at the leading shows in America, especially at the International, Chicago, and by the unparalleled victories it has won at the leading fat stock shows of Great Britain, namely, Aberdeen, Inverness, Edinburgh, Dublin, Norwich, Birmingham and at Smithfield, London.

Space here is too limited to give details of the awards of the above mentioned shows, but in the spring or early summer when the busy season in the office of the association is over, full details of all the 1909 shows will be printed and issued, as well as a full classification of premiums offered by the association for 1910.

The values at 1909 sales held by the various breeders and the association have ruled much higher than those of the past few years. Inquiries are constantly being received at the office of the association which indicate that a greater number of farmers are turning their attention to the breeding of Aberdeen Angus cattle and the veteran breeders are giving their breeding operations more careful attention. The records of the association show that the breed is constantly migrating to new fields and fast falling into the hands of enterprising cattlemen. Probably the most striking instance of this was revealed by the Rosenfeld & Siverly sale, which was held November 3, 1909. At this auction Senor Don Carlos Guerrero, from the Republic of Argentina, and James D. McGregor, of Brandon, Manitoba, Canada, were present and both were liberal buyers of the topnotchers. "Pride's Prince," a sensational bull calf, bred and raised by Rosenfeld & Siverly, was purchased by Senor Don Carlos Guerrero at \$625. The creditable exhibit the breed made at the Alaska-Yukon-Pacific Exposition, Seattle, Washington, has already borne much fruit with prospects of a greater future.

A bright future is now at hand, thus we urge every breeder to keep his cattle registered and records in good shape. Remember we do not record animals after they pass the two-year age limit.

The office of the association needs the assistance of every breeder and member to secure new members. In 1909, 281 new members were enrolled, an increase of 40 per cent over any previous year, and it is to be hoped there will be a substantial increase in the year 1910 over 1909. With the combined aid of every member the desired increase can be accomplished.

The association is now in a position to purchase several copies of Volumes 6, 7, 8, 9, 10, 11 and 12, and will be pleased to receive quotations from anyone that has above volumes for sale. The association can now furnish several complete sets of Herd

EVERY FARMER SHOULD START THE NEW YEAR RIGHT

Don't Do Another Thing Until You Investigate the Merits of
THE INDEPENDENT HARVESTER CO.

THE FARMERS' COMPANY, PLANO, ILL.

We Want You to Know of the Organization and Working of the Greatest CO-OPERATIVE Enterprise in Existence.

We want to show you how through Co-Operation of farmer, dealer and manufacturer, we are breaking the shackles of trust despotism—insuring your freedom from trust dictation.

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Is the shortest coupled planter made, draws easiest and can be turned in shortest space. Simple construction—does not get out of fix. Used by 110,000 progressive farmers last year. Valuable information for you in our free book F, whether you own a planter or not. Write for it.

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Books comprising Volumes 1 to 18 inclusive at \$1.00 per volume. Large editions of Volumes 17 and 18 are still on hand, which should be in the hands of members. To members we quote any volume at \$1.00 express or postage prepaid, which is just half the actual cost per volume to the association.

In 1910 there will be two sales held under the auspices of the association, one at Kansas City in connection with the American Royal Live Stock Show, with sale entry fee at \$12 per head, and the other will be held at Chicago in connection with the International Live Stock Exposition, with sale entry fee at \$15 per head. Those desiring to enter cattle in either or both of these sales should make application with the secretary at once in order to avoid disappointment.

Chas. Gray, Sec.

Sensible Horse Sentiment.

To the Editor of The Homestead:

A few weeks before Christmas a somewhat remarkable letter appeared in a city newspaper. A movement was under way to give the horses of teamsters, draymen and cabmen, etc., a Christmas dinner. The Humane Society of the city purposed to make the occasion an opportunity for a plea for better treatment of the horse and at the same time of giving instruction on the care of the horse to men who are frequently unkind through ignorance. The sentiment of the thing got in the air and the letter referred to was one of the results. The writer of the letter urged that the one gift which every man, woman and child could offer the horse, consideration, be not postponed until Christmas day. The thought which came to me as I read was that it need not be confined to Christmas season, and that our duty and privilege in the matter may be brought home to us I have gathered up a few hints for the masters of horses. Several of the hints apply, it will be noticed, to hot weather. They are none the worse for that, as they can be noted for future use:

If your horse comes into the stable warm and tired, feed him no grain for at least an hour.

It is much better to give a horse a small quantity of water when he comes hot from the field, and an hour later give him all he can drink.

The floor of the hay lot should be seed and dust tight. Horses are often injured by seeds and dirt falling into their ears and eyes.

Scrape the dried sweat from the collars every day and keep them smooth and pliable. A horse cannot rest well lying down in a narrow stall.

Stalls should not be boarded up more than four feet from the ground. Put a grating or heavy wire netting above that point as high as you please.

Place the windows in front of the stall

at least three feet above the horse's head. The sun should not shine directly into his eyes.

A considerate man will not swear at his horses any more than he would swear at his hired man.

Sponging a horse's eyes, face and nose three or four times a day during hot weather is refreshing and very beneficial.

At the Humane Society's dinner for horses on Christmas day every man who called at the hall and gave the number and name of his horses was given a copy of Black Beauty and a ten-pound sack of good oats for each horse he owned. On these sacks were tags which bore the following printed horse talk:

RULES FOR MASTERS.

What is good for your horse is good for his master.

Your horse needs good care as well as good food.

Never work your horse when he will not eat.

Water your horse often. Water should always be given fifteen minutes before feeding grain.

Daily grooming will improve the health as well as the looks of your horse.

Give your horse rock salt and head shelter from the summer sun.

Economize by feeding good oats and good hay.

Good drivers are quiet, patient and kind and have little use for a whip.

Improper shoeing causes corns and other serious diseases that greatly interfere with the comfort and usefulness of your horse.

The best bedding is fresh sawdust. It is cheaper and more healthful than hay or straw.

High checking is not only painful to your horse, but it interferes with his usefulness and causes serious diseases. He should be free to hold his head in its natural position.

The skin of your horse is sensitive. His long tail was given that he might protect himself against mosquitoes, flies and other insects. Docking permanently deprives him of his best defense against these pests.

Kindness toward lower animals is not simply discharging a duty to man's faithful friends and helpers, those patient creatures which always repay love with love and abuse with service; but its exercise promotes the growth of those qualities which make man better in all relations of life.

There is nothing mawkish or sentimental in these hints and rules, and they should commend themselves to the good sense and good feeling of everyone who has to do with horses.

As a mere matter of economy, it pays to treat animals considerably, to house them warmly, to feed them well and to so treat them as to keep them in health and such spirits as enables them to do good work. It is usually pure thoughtlessness, where it is not ignorance, which leads a man to urge a horse beyond reason or to leave him unblanketed in zero weather. What we need, and all we need as a rule, is a sensible presentment of the needs of the horse that we may be informed and our sense of justice stirred.

Subscriber.

This year the South's cotton crop will be worth not far from \$1,000,000,000, or twice as much as the output of all the gold mines of the world for the same year.

THE WALL DUROC SALE.

The sale of Messrs. Geo. E. Wall & Son, at Cherokee, Iowa, on January 14th, resulted in an average of \$43.07 on forty head of the tops of the cataloged stuff. Altogether there were fifty-four head sold in the sale, including two boars, and the average on everything was \$39.55. This included a lot of young gilts, some of which were not bred. The herd boar, Model Chief VII., went to Mr. James Williams, of Marcus, Iowa, and Messrs. List Bros., of Granville, Iowa, at \$85 and was a decided bargain at that figure. Crimson Lucy, a granddaughter of Crimson Wonder, went to Mr. I. H. Graham, of Cherokee, Iowa, at \$80, she being the top of the sow offering. The offering was good and those who bought sows at this sale got the worth of their money. Col. Frank Luther cried the sale. Below we list those selling for \$25 and over:

Lot.	Price.
1. Rosetta, T. L. Kenyon, Aurelia, Ia.	\$50
2. Miss High Tide, J. S. Lindquist, Galva, Iowa.	49
3. Iowa Belle II, E. F. Gerke, Aurelia, Iowa.	45
4. Hallie, J. S. Lindquist.	41
5. Daisy, T. L. Kenyon.	40
6. Coon River Belle II, Dr. R. C. Seaman, Cherokee, Iowa.	50
7. Royal Victoria, A. L. Neville, Cherokee, Iowa.	50
8. Lily Bell, D. C. Baker, Sutherland, Iowa.	44
9. Miss Wonder Royal, W. E. Haight, Aurelia, Iowa.	37
10. Royal Choice II, W. I. Jacques, Galva, Iowa.	40
11. Crimson Lucy, I. H. Graham, Cherokee, Iowa.	80
12. Sweet Marie, E. J. Kolhagan, Aurelia, Iowa.	48
13. Flossie Marie, A. L. Neville.	49
14. Anna Belle, W. I. Jacques.	36
15. Nancy Lady, I. H. Graham.	45
16. Nancy Girl, Dr. R. C. Seaman.	40
17. A. L. Neville, Aurelia, Iowa.	51
18. Joe McFarland, Cherokee, Iowa.	38
19. Same.	40
20. O. R. Stevenson, Quimby, Iowa.	41
21. Joe McFarland.	36
22. Same.	38
23. A. L. Neville.	38
24. Dr. R. C. Seaman.	37
25. V. C. Goerke, Aurelia, Iowa.	40
26. Joe McFarland.	38
27. Sam Oldhaussen, Sutherland, Iowa.	46
28. F. N. Phipps, Cherokee, Iowa.	42
29. Joe McFarland.	39
30. Same.	40
31. Frank Dunkelberg, Cherokee, Iowa.	51
32. Joe McFarland.	38
33. T. R. Crippen, Cherokee, Iowa.	37
34. D. C. Baker.	44
35. James Williams, Marcus, Iowa.	41
36. F. N. Phipps.	41
37. Same.	40
38. Dr. R. C. Seaman.	51
39. Lou Stanascheck, Cherokee, Iowa.	29
40. Sam Oldhaussen.	39
41. Lou Stanascheck.	27
42. Joe McFarland.	25
43. Model Chief VII., James Williams, Marcus, Iowa, and List Bros., Granville, Iowa.	85
44. Master Model, Dr. R. C. Seaman.	51

ALSIN'S DUROC SALE.

A representative crowd of breeders and a good local attendance were present at the brood sow sale held by Mr. A. P. Alsln, at Boone, Iowa, on Thursday, January 6th. The attraction of the sale were the sows bred to Muncie Chief and buyers were not disappointed in the offering which were bred to this great boar. Conservative prices ruled and good values were obtained at reasonable prices. Mr. Floyd Knapp, of Redfield, Iowa, topped the sale at \$152.50, an outstanding daughter of Ohio Chief bred to Muncie Chief, going to him at that figure. Cols. F. F. Luther and Fred Reppert did the selling in a satisfactory manner. List of sales follows:

Lot.	Price.
1. Sow, James Williams, Marcus, Ia.	77.00
2. Sow, H. W. Lineweaver, South English, Iowa.	62.50
3. Sow, Floyd Knapp, Redfield, Iowa.	152.50
4. Sow, A. Lentz, Pierson, Iowa.	55.00
5. Sow, A. D. Freed, Kelley, Iowa.	92.00
6. Sow, W. L. Hull, Logan, Iowa.	70.00
7. Sow, F. B. Butterfield, Ankeny, Iowa.	65.00
8. Sow, List Bros., Granville, Iowa.	57.00
9. Sow, J. A. Shade, Kingsley, Iowa.	60.00
10. Sow, H. E. Brownung, Hersman, Ill.	107.50
11. Sow, W. A. Foster, Greenfield, Ia.	51.00
12. Sow, C. O. Thornburg, Pleasantville, Iowa.	60.00
13. Sow, A. D. Freed.	70.00
14. Sow, James Williams.	61.00
15. Sow, Waltemeyer Bros., Melbourne, Iowa.	56.00
16. Sow, W. R. Hamline, Blandinsville, Ill.	70.00
17. Sow, J. M. Brown, Boone, Iowa.	51.00
18. Sow, same.	50.00
19. Gilt, James Williams.	80.00
20. Gilt, John Tupper, Woodbine, Ia.	80.00
21. Gilt, Wm. Herkleman, Elwood, Iowa.	53.00
22. Gilt, N. J. Wilkins, Lake City, Iowa.	45.00
23. Gilt, Wm. Herkleman.	40.00
24. Gilt, O. S. Larson, Logan, Iowa.	62.00
25. Gilt, E. C. Stemen & Son, Middlepoint, Ohio.	32.00
26. Gilt, N. J. Wilkins.	49.00
27. Gilt, C. O. Thornburg.	55.00
28. Gilt, Ernest Petticord, Perry, Ia.	56.00
29. Gilt, L. J. Brown, Boone, Iowa.	37.00
30. Gilt, S. P. Freed, Ames, Iowa.	68.00
31. Gilt, W. L. Hull.	60.00
32. Gilt, G. H. Cain, Granger, Iowa.	26.00
33. Gilt, Geo. W. Seckman, Mt. Sterling, Ill.	35.00
34. Gilt, E. M. Castle & Son, Joy, Ill.	56.00
35. Gilt, L. J. Brown.	36.00
36. Gilt, H. L. Cantine, Quimby, Iowa.	60.00
37. Gilt, A. E. Knight, Whitehall, Ill.	51.00
38. Gilt, Sam Stewart, Kennard, Neb.	48.00
39. Gilt, John Tupper.	75.00
40. Gilt, Ed Chapman, Nevada, Iowa.	37.00
41. Gilt, John Goddard, Harlan, Iowa.	29.00

43. Gilt, Geo. W. Seckman.	27.00
44. Gilt, Ed Chapman.	41.00
45. Gilt, C. A. Rasmussen, Harlan, Iowa.	34.00
46. Gilt, Wm. Herkleman.	38.00
47. Gilt, J. A. Shade.	30.00
48. Gilt, L. J. Brown.	25.00

SUMMARY.

48 head\$2,732.50; average...\$56.88

THE LENTZ & SON DUROC SALE.

A splendid crowd was on hand to attend the second annual sale of Messrs. A. Lentz & Son, at Pierson, Iowa, on January 15th, and they disposed of forty-two head at an average of \$43.88. This firm put up a most excellent lot of brood sows and the breeders present were agreeably surprised at the quality of their offering. Mackey's Queen, a yearling sow bred to Col. Scott, topped the sale at \$130, going to Messrs. Edmonds, Shade & Co., of Kingsley, Iowa. This was their second annual public sale and was one of the good ones held so far this season. Col. Frank Luther cried the sale. Below is a list of sows sold:

1. Chas. Waite, Kingsley, Iowa.	\$ 54
2. Louis Manker, Correctionville, Ia.	54
3. Edmonds, Shade & Co., Kingsley, Iowa.	53
4. E. Webster, Washta, Iowa.	49
5. Edmonds, Shade & Co.	130
6. E. Webster.	51
7. Chas. Waite.	49
8. John Kurtz, Merville, Iowa.	48
9. C. E. Waldron, Washta, Iowa.	59
10. E. J. Bleasdel, Pierson, Iowa.	35
11. Henry Snyder, Pierson, Iowa.	50
12. E. J. Bleasdel.	35
13. J. B. Guthridge, Washta, Iowa.	49
14. John Wilkins, Correctionville, Iowa.	42
15. Chas. Crumb, Kingsley, Iowa.	36
16. W. S. Clark, Kingsley, Iowa.	44
17. Henry Snyder.	48
18. Ira Stauffer, Kingsley, Iowa.	45
19. Henry Snyder.	40
20. Same.	40
21. C. J. Bleasdel, Pierson, Iowa.	42
22. Jno. R. Tupper, Woodbine, Iowa.	44
23. Wm. Herkleman, Elwood, Iowa.	41

25. Waltemeyer Bros., Melbourne, Iowa.	40
26. A. J. Mend, Kingsley, Iowa.	45
27. A. P. Alsln, Boone, Iowa.	33
28. A. M. Murphy, Kingsley, Iowa.	32
29. Elias Crum, Kingsley, Iowa.	39
30. A. A. Saddler, Correctionville, Iowa.	34
31. A. M. Murphy.	43
32. Chris Rasmussen, Harlan, Iowa.	33
33. John Goddard, Harlan, Iowa.	36
34. Claud Huffman, Scranton, Iowa.	40
35. Elias Crum.	41
36. Chas. Waite, Kingsley, Iowa.	28
37. A. A. Saddler.	31
38. James Williams, Marcus, Iowa.	39
39. Ira Stauffer, Kingsley, Iowa.	30
40. A. A. Saddler.	31
41. Elias Crum.	35
42. A. A. Saddler.	27
Extra, Sow, O. R. Stevenson, Quimby, Ia.	32
Extra, Sow, same.	32

BILLETER'S POLLED DURHAM SALE.

Mr. W. H. Billeter, of Carroll, Neb., sold Polled Durham cattle January 14th. It was a successful sale, the entire consignment being taken at an average of \$94 per head. Below we give a list of those sold for \$100 or over:

FEMALES.	
Fancy Golden Drop 2d, four years, J. S. Wilson & Sons, Avoca, Iowa.	\$200
Wild Eyes Mary, four years, E. Spilberger, Wayne, Neb.	140
Sweet Violet, four years, same.	115
Strathearn Queen, six years, same.	200
Scarlet Queen, three years, John Sals, Wayne, Neb.	125
Carroll's Queen, four years, O. F. Donnelson, Oakland, Neb.	135
Silver Countess 5th, three years, J. Nelson, Wayne, Neb.	115
BULLS.	
Victory, one year, John Heron, Wayne, Neb.	115
Orange Marshall, six years, F. M. Snyder, Pawnee City, Neb.	250
Red Rover, three years, H. C. Paulson, Carroll, Neb.	107

Ask your neighbor to subscribe for The Homestead.

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$5 per acre; only one-fortieth cash. 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands. J. J. Snyder, School Land Locator, 505 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

CUT THIS OUT. For sale, 400 acres fine, level soil, all under cultivation; seven room house, large barn, machine shed, power wind mill, and a good well; about 5,000 growing trees; four miles from three different towns, and two rail roads. Price \$26 per acre, half cash, balance to suit at 6%, or will sell on half crop payment. W. R. Maynard, Donnybrook, North Dakota.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Frazer, Iowa.

FREE GOVERNMENT farms. Our official 112 page book "Vacant Government Land" describes every acre in every county in U. S., million acres vacant. How to secure 160 acres by entry, 160 diagrams. All about irrigated farms. Price 25c, postpaid. Webb Pub. Co., Station 4, St. Paul, Minn.

160 ACRES of smooth Kansas land, well improved, 120 miles from Kansas City, near school, church, railroad; all in cultivation; corn, wheat, clover, alfalfa; black soil. Bargain, must sell quickly; settling estate. Dan Howell, 3228 Lockridge Ave., Kansas City, Missouri.

SELL your property for cash in less than 90 days; properties and business of all kinds sold quickly in all parts of the world. Send description today; we can save you time and money. The Real Estate Salesman, H. Fnuke Bldg., Lincoln, Nebraska.

MUST SELL 160 acres 3 miles from town, 90 acres cultivated, ponds in pasture, 5 room house, barn for 12 horses, other buildings, 36 acres wheat, some alfalfa, lease land adjoining; \$45 acre, easy terms. Address John W. Webb, owner, Salina, Kansas.

FOR SALE—North East Iowa farms, \$50 to \$85 per acre, 40 to 640 acres. Home seekers and investors, buy now while the price is low. Write for list, map. Wm. L. Maricle, 2506 East Elm Street, Des Moines, Iowa.

NORTH DAKOTA snap; first class 480 acre wheat farm; 275 ready for crop, good buildings, 4 miles to city, \$35 per acre; good terms. 160 acre farm at \$40 per acre, terms. Clifford Hales, Rugby, N. D.

COFFEY COUNTY, Kansas, the land of corn, wheat, alfalfa, clover and bluegrass; good water and fine climate; fine farms at \$40 to \$65 per acre. Write for list. Stewart Land Co., Le Roy, Kansas.

A BARGAIN for some one wanting farm of 80 acres Lee county, Illinois. All in winter grain. Price \$4,500. Very easy payments. Leonard, 609, 115 Dearborn St., Chicago.

FOR SALE—Southeastern Nebraska's richest corn, alfalfa and diversified farming lands. Free list and information. Nider & Henrichs, Fairbury, Neb.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

FARMERS—write today for list of Kansas and our new land list. Ford & Smeltz, Enterprise, Dickinson county, Kansas.

ALFALFA—HOGS—Dollars. Salina county bargains free, write today. Salina Investment Co., Salina, Kansas.

BARGAINS in farms and school leases; good soil, fine climate. Circular free. A. J. Haskins, Hunter, Oklahoma.

BARGAINS in Kansas land. Write for free descriptions and price list. V. E. Niquette, Salina, Kansas.

WRITE for list of Kansas and Missouri farms for sale or exchange. W. H. Sunonton, Fort Scott, Kan.

FOR EXCHANGES, quick sales and large list, address, Room 6, Continental Block, Omaha, Neb.

WRITE J. M. McCown, Emporia, Kansas, for new special bargain list of farms and ranches.

REAL ESTATE.

COME TO southern Kansas, where land is cheap, winters mild, all corn gathered, considerable plowing done for spring crops, snow about all gone (January 8). Here is a sample of our land and prices. 200 acres, nearly all tillable; good 8 room house, barn and outbuildings; at least 40 acres will grow alfalfa, 2 acres now in alfalfa. Price \$31 an acre. Write for new list. Donahue & Wallingford, Mound Valley, Kansas.

A QUARTER section of smooth, arable land in Southwestern Kansas. The soil is exceedingly fertile, and will grow all of the forage plants, wheat, and garden vegetables in great abundance. Price \$12.50 per acre; or would exchange for unimproved property elsewhere. Address "Dexter" 2624 Tracy Avenue, Kansas City, Mo.

COLORADO ALFALFA, alone, readily sells our sub-irrigated general farming lands in eastern Colorado, near Denver, from \$15 to \$25 per acre. For alfalfa literature and Colorado map address Colorado Farm Land Association, 279 Dearborn St., Chicago, Ill. Do you want to act as our agent?

TEXAS school lands. Over 1,000,000 acres for sale by the state; you can buy 640 acres at \$2 an acre; pay \$32 cash and balance after 40 years; fine farming and fruit land and healthy climate. For further information send 6 cents postage. Investors' Pub. Co., Dept. 23, San Antonio, Texas.

THE TEXAS Panhandle—Wheat, corn, hogs. Come to Swisher county, the heart of cheap, rich, level land. Sure crops. High altitude, delightful climate. No cyclones, no floods. Free descriptive booklet T. Write James Frye, Secretary, Commercial Club, Tulsa, Texas.

FOR SALE—640 out of 960 acres, owner wishes to reserve 320 acres in Marathon county, Wisconsin. Choice of land, soil clay loam; every acre tillable, an abundance of maple and birch. Send for price, plat and particulars. Griffith Land Co., 138 Main St., Oshkosh, Wisconsin.

\$6,000 INCOME a year. 452 acres; 25 room, furnace heated house; 4 barns, 26x100, 40x100, 38x50, 24x30; hen house, 16x100, cost \$2,000; hog house; granary; wagon scales; all kinds of fruit; near railroad town; \$15,000; one-half cash. Hall's Farm Agency, Owego, Tioga county, N. Y.

SNAPS in wheat land, Scott and Wichita counties, Kansas. Unimproved lands \$10 and up per acre. Two good improved farms close to town, \$15 per acre. Boulware & Countryman Realty Co., Modoc, Kansas.

NOW is the time to buy land in the best agricultural section of North Dakota. Good land, good water, good climate and native coal. Keep your eye on Morton county. Henry Bitzlug, Mandan, North Dakota.

NO CASH WANTED. Will sell 280 acres of good farm land in Missaukee county, Michigan, on crop payments. Write for particulars. Frank P. Cleveland, 1279 Adams Express Building, Chicago, Ill.

NORTH DAKOTA LANDS on ten years' time, crop payments at 6 per cent interest. Stutsman Co. Rich soil. Map and particulars on request. Address Frank L. Kellogg, Cleveland, North Dakota.

120 ACRES; well improved; two good horses, cattle, wagon, harness, buggy, farming implements, crop; \$2,000. Seth Cooper, Buckhardt, Douglas County, Missouri.

HOME-SEEKERS ATTENTION! If you want to buy lands in the best part of North Missouri, cheap, try The Clover Leaf Land Agency, Mountain View, Missouri.

BUY from owner, seventy acres irrigated land in Logan county, Colorado, in sugar beet district, eighty rods from growing town. Box 7, Proctor, Colorado.

FOR SALE or exchange, 80 acres, St. Louis county, Minnesota, near Duluth, 2 1/2 miles town. Price \$2,800, incumbrance \$760. E. E. Martin, Brooklyn, Iowa.

IF YOU want good and cheap farm lands, write us. We have them. Walter A. Evans & Company, Kiowa and Prior, Oklahoma.

NEBRASKA farms with possession March first; list free. Write E. L. Collicott, The Land Man, York, Nebraska.

INDIAN lands, Kansas, Texas farms. Information free. Frank McDowell, Arkansas City, Kan.

BOOK OF 500 farms and merchandise, trades free. Graham Brothers, El Dorado, Kansas.

POULTRY.

FORTY VARIETIES of standard bred chickens, ducks, geese and turkeys; northern raised, hardy, and fine in plumage. Lowest prices on stock, eggs and incubators and brooders. Large illustrated catalog mailed for 4c. L. X. L. Poultry Yards, Fildia, Minnesota.

SILVER LACED Wyandottes exclusively. Winners at several shows. Fine cockerels for sale at \$1.50 each; three, \$4.15; six, \$8. Circular free. John A. Johnson, Route 2, Pilot Mound, Iowa.

BARRER ROCK cockerels, have won at Cedar Rapids and six other large Iowa shows. Will please you or your money back. Circular free. Ed. Anderson, Alta, Iowa.

BARRER PLYMOUTH ROCK cockerels for sale, large, vigorous, farm raised birds, good barring, \$1.50 each. Otto A. Schrank, Danbury, Iowa.

STOCK FROM prize winners. Cockerels—Single Comb Brown Leghorns, M. B. turkey toms. Mrs. Geo. Manning, Birmingham, Iowa.

BUFF ROCK cockerels and Pekin ducks of good size and color. Prices right. Mrs. John Martin, Mason City, Illinois.

FOR SALE—Barrer Plymouth Rock cockerels, \$2 and up. Aye Bros., Grant St., Blair, Nebraska.

LARGE PEKIN ducks and Toulouse geese; prices reasonable. Frank Martin, Clare, Iowa.

30 BREDS geese, ducks, chickens. Catalog free. Minkel & Co., Mapleton, Minnesota.

PARTRIDGE COCHIN cockerels \$1.50. Clifford Lamberson, Palmer, Nebraska.

CHOICE Barrer Rock cockerels. Jas. Farquhar, Sutherland, Iowa.

HELP WANTED.

WANTED immediately; railway mail clerks, custom house clerks. Many spring examinations. Salary \$600 to \$1,500. Steady work. Short hours. Annual vacations. Salary twice monthly. Thousands of appointments during 1910. City and country residents stand equal chance. Common school education sufficient. Political influence not needed. To advertise our schools we are preparing candidates free. Write immediately for schedule showing dates and places of the examinations. Franklin Institute, Dept. O-24, Rochester, New York.

WANTED—Railway mail clerks, conductors, motormen, firemen, brakemen. Large salaries, fascinating work. Good men needed. Select your choice and write immediately. American Railway Institute, Dept. H, Kansas City, Missouri.

WANTED—Railway mail clerks. Let us prepare you for spring examination; 100 free scholarships. President of school conducted government examinations. Catalog and free trial lesson. Ozment's College, Dept. 42 R, St. Louis, Missouri.

GOVERNMENT farmers wanted. Salary \$75 monthly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42 F, St. Louis, Missouri.

AGENTS WANTED.

WE PAY \$80 a month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bigler Company, X425, Springfield, Illinois.

CARBURUNDUM Razor Hones 25c. Business alive for agents. Orders alone. Sample return mail, 2c. postage; Chattanooga Pattern Works, (A) Chattanooga, Tenn.

AGENTS—Handy Home Fastener. Every horse owner buys at sight, 200% profit. Thomas Mfg. Co., 859 Third St., Dayton, Ohio.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

DOGS.

FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successful con, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

THOROUGHbred con, fox and wolf hounds, trained and untrained. These dogs are guaranteed. Address Morris Murphy, Bentonport, Iowa.

FULL BLOOD fox-hound puppies 3 months old, for sale cheap. Chas. Walker, Gibbon, Nebraska.

POST CARDS.

POST CARDS—(To introduce) 20 gems of worth and beauty, 15 cents; 40 for 25c. Absolutely unlike all others. Get the best. Premium coupon and seed catalog free with every order. A. T. Cook, Hyde Park, New York.

TEMPERANCE post cards. 20 gems of worth and beauty, richly illustrated, for 15c., 40 for 25c., 100 for 60c. I give a premium coupon and seed catalog free with every order. A. T. Cook, Hyde Park, New York.

LIVE STOCK.

WANTED—Good Belgian or Percheron stallion, eight to twelve years old. Must have quality and size. Mapledale Farm, Williamsburg, Iowa.

SHORT HORNS. Short Horn bull for sale, 2 years old, guaranteed to be a breeder. Price reasonable. Chas. Eddleman, Anna, Ill.

CHOICE Polled Durhams. No scurs. F. Bunker, Kilbourn, Wisconsin.

LISTEN!--"How Can I Make More Money on My Farm?"

That's just the question which confronts you now

The Question is: How Can It Be Done?

An intelligent answer to that question is worth real money to you

I'll Answer that Question and I Won't Charge You a Cent For It, Either

HERE is the farmer's road to bigger profits—this year and every year. The illustrations speak volumes for themselves. But look at the PROOF—and I've got even better than that for you. Corn—corn and more of it means cash. Cash and more of it—as much as a quarter more of it in profits if you'll take the experience of thousands of farmers who are writing me like the letters below—the first PROOF. With Corn—or any kind of grain, or crop; no matter where you live, or what your farm is like, it's the same story, if you'll take the

advice of the most successful farmers in the country today. Take their advice—I don't ask you to take mine alone. Here is my share—what I'll do for you. Here's the second PROOF—I'll give you 12 months to prove out these facts if you'll write me a postal. You can start at once at my risk for 30 days. But I'll first prove to you, by hundreds of letters like these below, just what you can start and do right now to make the most money on your farm this year—for 12 months from now and on into 1911 and year after year if you'll do it.

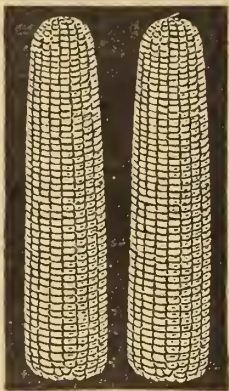


Wm. Galloway
President
The Farmer's Manufacturer

The Difference Between Manured and Unmanured

1. Big Bumper Corn—25 more bushels per acre. Figure it up 50 cents a bushel and see how quickly you pay for a Galloway Spreader and how much you'll make besides.

2. This stalk is only 3/4 size. In a corn field where a Galloway is used you can go out and see the mark (by bigger corn) left where the spreading stopped.



3. Here are the kind of champion ears grown on Galloway Manure-Spread Land. It's just as much a waste of money to leave your manure in a pile as to throw your crop away.

4. I am Telling a Million Farmers About This and I'm Going to Prove It to Them—and to You.

My New Clincher Proposition To You

Here is how to make the extra money. First. Get your name in to me. Don't wait until tomorrow. Do it even before you start out to do your chores. Second. Pick out from my Big Galloway Manure Spreader Catalog, which I'll send you Free, any spreader you want out of my big line of five different styles and sizes including my Complete Steel Truck Spreader.

Third. Here is the new part—and I repeat it again in full. If at the end of twelve months, after you order a spreader, it isn't a paying investment to you, I will pay you back your money and you send me back my spreader. How's that for a proposition? Could I do it if I didn't have the spreader and knew what I was talking about? No—never in the world.

Could I keep on advertising and selling these spreaders by the thousands if they were not head and shoulders better than anything else? Ask the editor of this paper what he found out.

There are just two things I want to impress on

you. If you do these things I can make you money: First, get that postal card in to me, and then, second, prove for yourself that the Galloway Spreader is the best spreader ever made by human genius. Forty thousand farmers have already stamped their O. K. on it. That ought to be proof enough.

The concern, whether manufacturer, mail order house, agent or dealer, who says anything contrary to the merits of the Galloway Spreader, are either ignorant and don't know what they are talking about or are deliberately lying and misrepresenting our goods. Whose word would you rather take? The word of forty thousand farmers who have tried my machine or the word of some dealer or agent, who will simply say anything that comes into his mind, because I stand between him and a profit of from \$25 to \$30?

Send postal today and get my new, personally signed proposition.

Wm. Galloway, Pres.

Further Proof

Have in My Office Thousands More Like These. \$1,000 in Cash Paid if One is not Genuine

I Have Never Met Any of These Men, They simply Saw My Advertisement and Ordered



Try It 12 Months

If it is not a paying investment I'll give you back your money; you give me back my spreader.

How Does It Compare With \$125 Spreaders?

Hans M. Johnson, Parkston, Minn. "I would not trade my Galloway for any \$125 spreader I have ever seen."

Garret Mathias, Mathias, W. Va. "It's worth two of the—"

Dewey Hicks, El Reno, Okla. "Have used a—A \$135 machine. Couldn't think of changing even."

C. C. Johnson, Morrison, Mo. "The— isn't in it with the Galloway."

G. A. Entz, Newton, Kans. "It spreads evenly any kind of manure with two horses as good as any \$125 spreader with four."

Ewald Redman, Watauga, Ind. "Your spreader certainly proved what you said. We tried a— spreader last spring. Couldn't do anything with it. It cut down eight inches and three horses couldn't pull it."

J. A. Gilmore, Waterloo, Ill. "Used it this winter when others couldn't use their spreaders."

Theo. Manke, Lawrence, Nebr. "I can haul as much manure with it as any \$125 spreader."

Does It Come Up to All Our Claims?

John J. Houtz, Merwin, Mo. "Used hardest kind of feed lot manure. Tried best to break or clog it by overloading and placing load to disadvantage of spreader. Found it did work as represented. My entire satisfaction. Hauled 265 loads without breakage or trouble."

J. V. Bradley, Rockville, Mo. "Found it exactly as represented."

A. C. Courtney, Ackerville, Kans. "Will do all that Wm. Galloway says and more. Would not purchase any other kind."

Herman Walker, Avon, S. D. "You can't recommend it too high. It is all you say it is in catalog."

James Munro, Patterson, N. D. "The minute I saw your machine work I knew it was all and even a great deal more than you claim for it. Neighbors who have seen it claim it is the best they ever saw. Force feed simply immense. Leaves nice clean bottom."

Peter Boyesen, Schleswig, Iowa. "Got my horses on a trot. Slammed it in gear. Failed to break machine. Test enough for me. Would not trade mine for any other make for three reasons. 1st. Cost only half. 2d. Get strong set of running gears at low price and still save \$20 on whole outfit. 3d. Can use spreader with two horses and use running gears whenever desire."

Is It a Money Maker?

W. H. Cress, Spaulding, Iowa. "Best investment in farm machinery I ever made."

M. B. Sparlin, Seneca, Mo. "Spreader all right. Would not sell it for ten times what it cost if I could not get another."

J. A. Hush, McCune, Kans. "Hauled 100 loads last winter. My hay made double. Think it will pay if you don't have but 50 loads to haul out a year. Can't best Galloway for good work and wear. Price is right."

J. W. Carter, Amite, La. "By using spreader you do more work, haul more loads and increase value of manure three-fold. On my 140 loads saved \$140 in labor and increased value over hand spreading."

D. M. Miller, Warrensburg, Mo. "Would not give it for all commercial fertilizers you can scratch up. It works to a T. Draft is light. Fits any wagon. Will pay for itself in one year."

J. B. Baker, Rushville, Nebr. "Potatoes top dressed. Made nearly 25 bu. to the acre more than those not top dressed."

S. J. Woodring, Chester, Okla. "Have \$1000 worth of machinery. Your spreader is best tool on the place."

How Does It Work?

Ralph Hovis, Clintonville, Pa. "Was agreeably surprised with the thoroughness with which it did its work."

John Kasmeir, Shawnee, Okla. "It is a master in its line of work."

E. Dolle, Jr., Seguin, Texas. "Have spread wet and dry, rotten manure and corn stalk manure. Works fine."

F. J. Duffy, East Grand Forks, Minn. "Loaded spreader twelve inches above box with toughest manure could find. It did the work."

Levi V. Beyer, Maudsall, Pa. "Best machine I ever saw work."

G. A. Entz, Newton, Kans. "It is O. K. all around and a machine for any kind of farmer, for the large or small."

H. Gutherson, Gladbrook, Iowa. "Works fine. Spreads all kinds of manure better than any spreader I ever saw. So simple, nothing to get out of repair as compared with other spreaders."

Ernest Nelson, Chanute, Kans. "Could not do any better. Surprised at the way it does its work and easy draft. Neighbors think best ever seen."

R. A. Jongwoord, Litchville, N. D. "Complete success. Several advantages over other spreaders. Can be loaded in barn. Two horses handle it with ease. Boy can operate it with ease."

G. B. Clary, Fairbury, Neb. "Works as well as the owners represented it and more. Least expensive spreader I know of."

Is It Light Draft?

T. F. Stice, Oswego, Kans. "Often pull it with my small buggy team. Does good work. Have always used the— before. Galloway much the best. If going to buy a dozen more they would all be Galloways."

C. Carlson, Haddon, Kans. "Loads handier than big four horse machine. All I need is plug team and 16 year old boy."

J. W. Kamsdell, Sandusky, Ohio. "My two horses of 1100 lbs. that play to run the Galloway, while other manure spreaders make three or four horses pull hard."

W. K. Neeley, Wayne, Nebr. "A success in every way. Used different spreaders. Like wagon box best. Lighter draft, can haul with two horses. Put it on any old wagon."

Does It Need Many Repairs?

Fred J. Bowen, Longford, Kans. "It has never cost cent for repairs or minute's trouble. Hauled all kinds of manure."

Edward Anderson, Niagara, N. Dak. "Not given me a bit of trouble. Hauled out 300 loads."

James W. Anderson, Leonardville, Kans. "There is nothing to get of place or wear out."

John J. Houtz, Merwin, Mo. "Tried my best to break or clog it by overloading. It did the work as represented."

W. W. Bunfield, Paradise, Kans. "There does not seem to be anything to wear out about it. Have not been out for breakage."

T. J. Oban, Loyalton, S. Dak. "Used it two years. Never broke a nickel's worth."

The Farmers of America Are With Me on This I Can and I Will

I've Set My Stakes for 30,000 Galloway Spreaders This Year. I've Got the Factory that Can Make Them—and It Shall. I Can Sell Them if I Make the Price—and I Am Doing It. My Price is Based on this Quantity.

My price direct to your station—freight prepaid on 30 Days' Free Trial and 12 Months' Approval Test is doing the business. Here are facts about the Galloway which is the only successful Wagon-Box Endless-Apron Force-Feed Manure Spreader ever made. Beware of imitations.

My new, wonderful roller feed is the greatest ever contrived by human genius. Made of 15 pounds bull metal malleable. Can't wear out. We do with it what others try to do with 250-lb. cogs and gears. Read proof above.

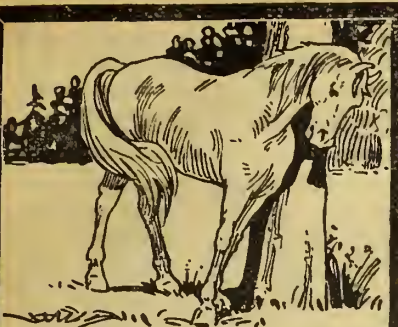
Read These Boiled-Down Facts to Remember About the Galloway

—Saves you 50% on the price—Lowest price ever made on a first-class spreader—Fits any truck

Wm. Galloway Company of America (Authorized Capital \$3,500,000.00)
109 Galloway Station, Waterloo, Iowa

regardless of make—Don't break up two teams—Takes only two horses—Thirty days' free trial, you alone to be the judge—Then twelve months' approval test to prove that it's a money-maker—\$25,000 guarantee—I prepay all freight charges to you—Works up and down hill—On side hills—Winter or summer—In snow, ice, rain and mud—Only endless-apron force-feed ever made which alone is worth \$25.00 and found only on a Galloway—Easy to get through your barn doors and around your yard—Eleven different patents—Made in five different styles and sizes, including the Complete 70-bu. Steel Truck Spreader—So simple repairs are almost eliminated—Has the O. K. of forty thousand American farmers.

Then consider these facts and the PROOF and you'll send me your name on a postal for my New Clincher Proposition and Big New Galloway Spreader Book—Write today.



Dr. Hess Dip and Disinfectant

For mange, scab, lice, ticks on sheep, fleas and all parasitic skin diseases of horses, cattle, sheep, hogs, dogs and poultry.

A reliable disinfectant, germicide and deodorizer. Purifies the air. Good alike for home and stable. Compounded by Dr. Hess (M.D., D.V.S.) It requires only one gallon to make 70 to 100 gallons of Dip.

In a solution of one part Dip to 70 of water Dr. Hess Dip and Disinfectant meets the United States Government's requirements for official dipping for sheep scab, and is non-poisonous and non-irritating.

If your dealer cannot supply you, we will.

Write for circular.

DR. HESS & CLARK
Ashland, Ohio

SAVE THE HORSE'S SPRAIN CURE.

REG. TRADE MARK




The most perfect and superior remedy or method known, with greater power to penetrate, absorb and cure than anything discovered in veterinary medical science or practice. Besides being the most humane, "Save-the-Horse" is the most unfailing of all known methods. It is effective without fevering up the leg, making a blister, or leaving a particle of after effect.

Armstrong, Mo. — Enclosed \$5. Please send me bottle of "Save-the-Horse." I used your medicine on three different cases with the results hoped for. I gladly recommend it. Ship at once and oblige. Yours truly, GEORGE W. LENOIR, Route 2.

Atlin, R. C. — Last year, with one-half bottle only of "Save-the-Horse" Spavin Cure, a customer of mine treated a sprained tendon of four years' standing—the horse had practically become useless. Many other remedies had been applied without results. "Save-the-Horse" effected a complete cure.

Yours truly, C. R. BOURNE, Drugs and Stationery.

\$5.00 a bottle, with signed guarantee or contract. Send for copy, booklet and letters from business men and trainers on every kind of case. Permanently cures Spavin, Thoroughpin, Ringbone (except low), Curb, Splint, Capped Knee, Windpuff, Shoe Boli, Injured Tendons & all Lameness. No fear of loss of hair. Horse works as usual. Dealers or Exp. paid. TROY CHEMICAL CO., 3 Commercial Ave., Binghamton, N.Y.



ABSORBINE

Cures Strained Puffy Ankles, Lymphangitis, Poll Evil, Fistula, Sores, Wire Cuts, Bruises and Swellings, Lameness, and Allays Pain Quickly without Blistering, removing the hair, or laying the horse up. Pleasant to use, \$2.00 per bottle at dealers or delivered. Horse Book 5 D free.

ABSORBINE, JR. (manikind, \$1.00 bottle.) For Strains, Gout, Varicose Veins, Varicocele, Hydrocele, Prostatitis, kills pain, cures, in case we should have another one that way.

W. F. YOUNG, P. D. F., 37 Temple St., Springfield, Mass.

Death to Heaves Guaranteed

Or Money Refunded.



NEWTON'S Heave, Cough and Distemper Cure. \$1.00 per can at dealers, or express paid. 18 years' sale. Send for booklet, Horse Troubles.

THE NEWTON REMEDY CO., Toledo, Ohio.

WANTED--Farmer or Farmer's Son

With rig in every county to introduce and sell family and veterinary remedies, extracts, etc. Fine pay. We mean business. We want salesmen in all states. Write us. SHORES FARM REMEDY CO., TRIPOLI, IOWA

LEARN VETERINARY DENTISTRY

a and make \$2000 a year. We teach you at home in three months of your spare time by illustrated lectures and grant diploma with degree. Particulars free. The Detroit Veterinary Dental College, Detroit, Mich.

MILK FEVER OUTFITS

Dehorners Teat Sippers, Sitters, Dilators, etc. Received only Award World's Fairs, Chicago, St. Louis. Write for illustrated catalog. Hausmann & Dunn Co., Chicago, Ill.

VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office

SYMPTOMS AND TREATMENT.

LAME COW.

We have a cow four years old, good milker, that for several months has had three splits across the front claws only one part. She can't stand up very well on it, except on soft ground. She is kept dry and is in good condition, but we fear she might become lame. It seems as if parts of the claw would break off, but is hard and dry and the cow suffers when cleaning the claw. Can you give us a cure and what is the cause?

For three or four days poultice the hoof to soften the horn of claws; then cut away all parts of the horn that are loose or underrun or separated from "quick." Then dip foot for a few minutes in a saturated solution of sulphate of copper made as hot as the hand will bear and on removing from this solution cover the wounds with boric acid, cotton batting and a bandage. Repeat the treatment once daily until healed.

INDIGESTION.

I would like to know what to do for a young, light bay horse seven years old this spring. He has not done any good for a year now. His hair stands up and he is thin; he eats heartily; he is not hide bound. When turned on the grass he has the diarrhea. I have had his teeth examined by a veterinarian and they are all right. He said it was indigestion and I had his prescription filled and gave it to the horse for two or three months. It was sulphate of iron, nux vomica, soda and ginger. I also gave him black antimony and hickory ashes and I have fed him oats, bran, corn and timothy hay. I have also fed him some stock powder.

Give Fowler's solution of arsenic, commencing with two teaspoonfuls twice daily and in a week increasing to a tablespoonful twice a day and later to three doses of one tablespoonful three times a day. Continue until he is in nice condition, then gradually stop the medicine taking two weeks to the work.

DEATH OF HORSE.

I had a large bay horse, weight about 1,400 pounds, that was working nearly every day—light work and no heavy loads—appetite good, fed on corn, oats and good hay, and always healthy before. I put him in the barn in the evening, but he would not eat his feed, or very little of it. I then led him out of the stall, turning him around. He staggered as though he would fall down and I put him back in the stall. He then gave out in his forelegs, which became limber and of no use. He then went down, or fell, and seemed to be in a little pain, breathing hard with a moan. By placing my ear to his lungs I could hear a grating or rumbling sound, like rubbing two flies together. His breathing seemed to be shut off near the diaphragm, or in other words, he could not take a full breath that extended to the flanks. When breathing his mouth would open as if to help him get his breath. At no time did he struggle. At times he would raise his head, then let it fall back and give a groan. Temperature normal; bowels and kidneys seemed to be all right. The horse died next morning. Please tell me what was the matter, and cure, in case we should have another one that way.

It would be impossible for anyone to say just what caused death in this case. A post-mortem examination should have been made to determine the cause which may have been rupture of a blood vessel, rupture of the stomach, acute congestion of the lungs or heart disease.

PERIODIC OPHTHALMIA.

I would like your advice concerning a mare with sore eyes. She is six years old and has had the trouble for three months. The local veterinarian has treated her, using some medicine costing \$6 per pound, but can do no good. Her eyes are slightly swollen, tears run freely, the ball becomes whitish and it seems to cause her some pain. They will improve for a few days and for about a week will be as stated above. She does no work to speak of, gets oat straw and oats now, but was fed alfalfa hay and oats until the first of November. Have kept her in the barn part of the time, thinking the daylight hurt her eyes, but this seems to make no difference. She does not like bright light and when the eyes are the worst the lids are almost closed.

The mare doubtless has periodic ophthalmia which is incurable and will result in cataract and blindness of one or both eyes after a succession of attacks. Iodid of potash given in dram doses two or three times daily in water at time of attack retards blindness. At the same time the stable should be darkened and the eyes soothed by keeping them covered with a soft cloth to be kept with a mixture of half a dram each of sulphate



SAVE YOUR HOGS

If you saw a boa constrictor squeezing you out of your profits, you would kill it in a hurry.

Worms are doing inside of your hogs just what this snake is doing outside—taking their lives slowly but surely, and they are much more deadly because they do their work where you cannot see them.

Iowa Worm Powder

will save your hogs. 90% of all hog losses are caused by intestinal worms, and could be prevented at the expense of a few cents.

Iowa Worm Powder kills all of the worms in the hog's stomach and bowels and expels them. It soothes the digestive organs and puts your hogs in shape to get the most out of their feed—to turn every ounce of feed into pork—to make more money for you.

FREE If you have never used Iowa Worm Powder, we will send you a \$1.00 package if you will send us 25c for postage and packing and tell us how much stock you have on your place. Address Iowa Stock Food Co., Dept. A., Jefferson, Ia.

Free and Clear to Your Depot on 30 Days' Trial

NO MONEY DOWN—NO CONTRACT


This big money-maker is yours, for 30 days' use, anyway, no matter where you live, without a penny of expense to you. I'll pay the freight. I don't want any money in advance—any deposit—any contract. All I want is your permission to ship you a—

CHATHAM FANNING MILL, SEED GRADER and CLEANER

Then, if you want to keep it, pay me my bedrock, factory price—on easy terms. I think you'll want it for keeps when you know how fast it makes money by giving you clean, graded seed to plant and sell. One means full crops—necessary when land is so high; the other means top prices when you sell. MY FREE BOOK, No. 124, will tell you all about it. Send your name and address, now, so I can make you my remarkable offer. Ask for Book No. 124. Use nearest address. Manson Campbell, President, THE MANSON CAMPBELL CO., Detroit, Mich.; Portland, Ore.; Kansas City, Mo.; St. Paul, Minn.




GET FREE BOOK NO. 124



SCARLESS LINIMENT

THE HEALING OIL WITHOUT AN EQUAL FOR ALL SORES, CUTS, BURNS, BRUISES, SPRAINS, ETC., ON MAN OR BEAST. AT YOUR DRUGGIST, or we will send a 25c trial size on receipt of your druggist's name and 10c to cover postage and mailing case.

Scarless Remedy Co., Winterset, Iowa.



of zinc and fluid extract of belladonna leaves in a quart of cold water.

LOCOMOTOR ATAXIA.

I have a horse five years old that is affected with a very peculiar lameness. It seems to be hard for him to control his hind legs when walking and sways from side to side. At first his hind legs only were affected, but lately he seems to be getting stiff in the shoulders and drags his front feet. He has always shown that peculiar action in his walk since he was a colt, especially when going down hill, but in the last six months has grown steadily worse. We did not pay much attention to it, as he is very tall and rangy, weighs about 1,500 pounds and is black in color. There does not seem to be any soreness, as he rather likes to be curried and rubbed. There is no swelling and he seems to feel good and will try to run and play, but seems unable to control his feet. The muscles seem to be very hard from the hock up. I feed him corn and oats and wild hay and he eats well. Have not given any treatment, as we have no veterinarian here. Would like to have your advice through the columns of your paper as soon as convenient.

The spinal cord is affected and the disease, known as locomotor ataxia, is practically incurable. It may help if you give him twice daily in feed a dram each of dried sulphate of iron, powdered nux vomica, ground gentian root and fenugreek as a tonic. Continue for two weeks, then stop for a time and repeat later if the first treatment did good.


NEW LONDON, IOWA, DUROC SALE.

The Duroc Jersey sale held at New London, Iowa, January 14th, by Messrs. Hanks & Bishop and Droz & Jenks was successful. Better values could have ruled throughout the sale and the sows still would have been money makers. Chief's Jewel by Ohio Chief, the champion sow at Des Moines last year, was the top of the sale, going to Mr. Ernest Pancake, of Ransom, Ill. This makes three times that Mr. Pancake has topped the sales of Messrs. Hanks & Bishop and this time has added another great sow to that grand collection of sows that he owns. Mr. H. E. Browning was the contending bidder. The funeral of a neighbor caused lack of support from the local crowd. Messrs. J. C. Droz and Buck & Miller were among the best buyers. Colonels Izleheart, Reppert, Buck and Kraschel did good work in making the sale a success. Below we give list of buyers:

Lot.	Price.
1. Ernest Pancake, Ransom, Ill.	\$179.00
2. E. M. Castle & Son, Joy, Ill.	77.50
3. J. C. Droz, Fairfield, Iowa.	107.50
4. W. D. Gorman, Mt. Union, Iowa	43.00
5. J. C. Droz	55.00

Stickney Gasoline Engines

ARE THE BEST



Why? Because they have the best igniter, the best cooling system, the best valve motion and the best governor. Thousands of engines now in successful operation after our years of experience in building only the best prove all these points. **Seven sizes, 1 1/2 to 15 H.P.** Send for Free Catalog and our five reasons why **Stickney Engines are the best.** Agents everywhere.

Charles A. Stickney Company
MAIN OFFICE & FACTORY: ST. PAUL, MINN.
EASTERN OFFICE: EMPIRE BLDG., PITTSBURG, PA.

A. S. ALEXANDER, V. S.

MADISON, WIS.,
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail, \$1.00.

6. Whitehall Farm, Yellow Springs, Ohio	60.00
7. Stansell & Matern, Lostant, Ill.	58.00
8. F. M. Barnes, Burlington, Iowa.	49.00
9. Buck & Miller, Sunny Hill, Ill.	52.50
10. Fred Strong, Orient, Iowa.	75.00
11. T. W. Graham, Biggsville, Ill.	40.00
12. A. E. Knight, Whitehall, Ill.	33.00
13. W. D. Gorman	27.00
14. Biglow & Son, Alcedo, Ill.	38.00
15. E. R. Shively, Morning Sun, Ia.	34.00
16. T. W. Graham	35.00
19. H. E. Browning, Hershman, Ill.	37.00
20. Buck & Miller	40.00
21. J. C. Droz	44.00
22. T. W. Graham	42.00
23. C. E. Veak, Essex, Iowa.	30.00
24. W. D. Gorman	34.00
25. F. W. Warvey, Mt Pleasant, Ia.	33.50
26. H. E. Browning	36.00
27. F. Schweizer, Elwood, Ill.	35.00
28. T. D. Parkins, Low Point, Ill.	32.00
29. Bardwell & Barnard, McHenry, Ky.	115.00
31. G. W. McKnight, Howell, Ky.	46.00
32. F. Warvey	31.00
34. W. D. Gorman	34.00
35. Ernest Pancake	86.00
36. F. Bieth & Son, Joliet, Ill.	93.00
37. Buck & Miller	40.00
40. W. D. Gorman	28.00
42. R. A. Dodson, Alcedo, Ill.	44.00
44. S. E. Eakle, Prophetstown, Ill.	51.00
45. A. E. Knight	41.00
50. E. R. Shively	31.00
51. Buck & Miller	51.00
53. H. F. Kelley, Rome, Iowa.	28.00
54. E. Glantz, New London, Iowa.	30.00
56. H. E. Browning	31.00

SUMMARY.

Hanks & Bishop sold 31 head for.	\$1,586.50
Average	51.18
Droz & Jenks sold 13 head for.	552.50
Average	42.50
Total, 44 head sold for.	2,139.00
Average	48.61

The Ames Short Course.

Some very high dressing records were made at the meat demonstration the second Monday of the short course held at the Iowa Agricultural College during the first two weeks in January. Roan Jim, reserve champion at the 1908 International, dressed 68.6 per cent. The two-year-old Angus steer, First Choice, dressed 69.9 per cent, which is remarkable for a steer of that age. The high point was touched by one of the International prize-winning Berkshire barrows, which dressed 88.2 per cent. This lacks but .4 of 1 per cent of equaling the best record ever made in Chicago.

The work in the stock judging classes during the last week was with Burgess & Son's horses and those owned by the college. Mr. Albert Dobson, of Des Moines, assisted with the light horse judging. The last two days of the week were spent in hog judging.

The success of the junior corn show and the junior department of the short course led to the organization of a boys' and girls' association to be known as "The Iowa Junior Agricultural Union." Its purposes are to co-operate with the extension department of the college in reaching the young people of the state, and to hold an annual corn and grain contest at the short course at Ames. In addition an attempt will be made to organize local corn clubs and encourage local junior corn shows and short courses. The officers are: President, Geo. Feazell, Bridgewater; vice-president, Mervin Martin, Hancock; secretary-treasurer, Albert Clark, Clarion; superintendent (chosen by the extension department), Wm. McArthur, of Ames. The district vice-presidents are: District 1, Geo. Crosby, Montgomery; District 2, Arthur Hammond, Clear Lake; District 3, Guy Tracy, Nashua; District 5, Eric Hill; District 6, L. E. Thomas, Hazleton; District 7, Eugene Fink, Deloit; District 8, Fritz Hug, Polk City; District 10, Eldwin Sawhill; District 13, Glen Hazen, Denmark. Mr. McArthur has had charge of the junior corn show this year, and much of its success is due to his efforts. The ex-

tension department has chosen him as superintendent of the Junior Union for next year.

The senior show, which was managed this year by Paul Taff, has been merged with the Iowa Small Grain Growers' Association. This insures a permanent corn show at Ames, even though the Iowa Corn Growers' Association has severed connection with the college. The grain growers were inspired by their success with their first show this year to broaden their organization to include corn and grasses. The name of the new organization is the "Iowa Grain Improvement Association." Not only will it hold an annual show in connection with the short course at Ames, but it will co-operate with the Iowa Experiment Station in testing new grains. L. C. Burnett, small grain experimentalist at Ames, already has a number of new strains of small grain, which he will have tested in different parts of the state next year by the members of the grain improvement association. The officers of the new association are: Merritt Greene, of Marshalltown, president; Fred McCulloch, of Hartwick, vice-president; L. C. Burnett, of Ames, secretary, and H. N. Wood, of Iowa Falls, treasurer.

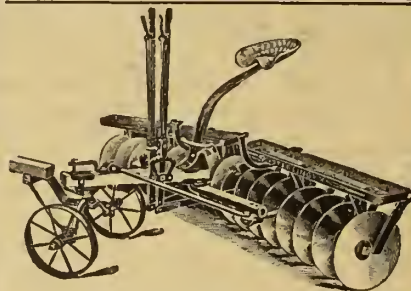
A very enthusiastic number of dairy-men and butter makers attended the dairy short course. In the ninety who were enrolled in this course, ten different states were represented. On Thursday afternoon of the last week a "Dairy Boosters' Association" was organized. This is composed of butter makers, creamery officers, and dairy traveling men. Its purpose is to stir up more enthusiasm for dairying by means of local picnics, meetings, etc. Mr. Walker, of the Diamond Salt Company, is president, Mr. Shoemaker, of the Creamery Journal, Waterloo, secretary, and Mr. Mack, of the Creamery Package Company, Waterloo, treasurer.

In the senior corn show Wm. Wayne, of Nashua, won sweepstakes in the ten-ear class in the northern section; W. S. Wood, of Iowa Falls, in north central section; C. O. Garrett, of Mitchellville, in south central section, and Frank Sar, of Essex, in southern section. The grand champion sweepstakes prize, a Hayes corn planter, went to Frank Sar. He showed the same sample here that won the sweepstakes for him in the Iowa division at Omaha. This is one of the best samples that has ever been shown in Iowa.

In the single ear class E. R. Mawdsley, of Burt, won sweepstakes in northern section; H. N. Wood, of Iowa Falls, in north central section; E. L. Pearson, of Mitchellville, in south cen-

Are You Particular About Your Farm Tools?

If So, It Will Pay You to Provide Sterling Implements for Your Farm



Good tillage requires the best tools. If you have not used **Sterling Machines** you have missed something of the satisfaction of work well done. Sterling Tools satisfy because they do the best work.

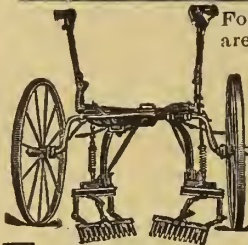
We show cuts here of two popular **Sterling Machines**.

Look them over. They stand for all that is best in tillage tools.

We want to put you in touch with Sterling Implements if you are not already using them. Write us and we will send you descriptive matter and tell you where you can get the goods.

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THE TOWER SURFACE CULTIVATORS



For corn, cotton, sorghum, potatoes, etc., are the best. They shave off weeds and work above plant roots of all crops, leaving them intact and nourished with a perfect dirt mulch. 30 years' test places this system at the front for common sense culture and largest results. Use the **Pulverizer** before and after planting, for very best results.

Don't fail to send for our free "Treatise on Corn Culture."

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is the greatest weather-resister known. It makes roofing last. We use it to make Genasco—and we own the Lake.

If you want your roof insured against leaks, damages, and repairs get

Genasco Ready Roofing

Mineral and smooth surface. Look for the trade-mark. Insist on the roofing with the thirty-two-million-dollar guarantee. Write for samples and the Good Roof Guide Book.

THE BARBER ASPHALT PAVING COMPANY



Largest producers of asphalt and largest manufacturers of ready roofing in the world.

PHILADELPHIA

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Rider Agents Wanted



in each town to ride and exhibit sample 1910 bicycle. Write for Special Offer. **Finest Guaranteed \$10 to \$27** 1910 Models with Coaster-brakes and Puncture-Proof tires. **1908 & 1909 Models \$7 to \$12** all of best makes **100 Second-Hand Wheels** All makes and models, good as new. **\$3 to \$8** Great FACTORY CLEARING SALE We Ship on Approval without a cent deposit, pay the freight and allow **TEN DAYS' FREE TRIAL.** TIRES, coaster brake rear wheels, lamps, sundries, half usual price. Do not buy till you get our catalogs and offer. Write now. **MEAD CYCLE CO., Dept. C-154 Chicago.**



A LAKEWOOD GROUP.

The illustration appearing above is from a photograph of a group of young Percherons bred on the Lakewood Farm, at Rock Rapids, Iowa. They are of interest just now because these or others like them will go to make up the great consignment of 100 Percherons which the Lakeside Farm will consign to a public sale at Sioux City, Iowa, on February 8th and 9th. The splendid prize-winning record of the Lakewood Percherons at the recent International Show, at Chicago, as well as at numerous state fairs, is one which should inspire the confidence of buyers in stock which is now to be sold. Catalogs may be had by forwarding a request to Messrs. H. G. McMillan & Sons, Rock Rapids, Iowa. See advertisement on page 56.

north central section; Orville Garrett in south central section, and Ida Chasey in southern section. Ida Chasey won the state championship for girls, getting a Singer sewing machine. Orville Garrett won the state championship for boys, winning a Columbia bicycle, and the grand championship for the state, which gave him the \$75 gold medal offered by the W. K. Kellogg company. This sample was conceded to be the best ten-year sample shown at the short course.

Sweepstakes for the best twenty ears, any variety, went to T. O. Finnell, of Hamburg.

In the class of dam and five of produce A. C. Hanson, of Inwood, won sweepstakes in northern section; Walter Henderson, of Randall, in north central section; Earle Zeller, of Cooper, in south central section, and Carl D. Woods, of Columbus Junction, in southern section. Grand championship went to Earle Zeller.

NAUMAN'S DUROC SALE.

Mr. David Nauman, of West Liberty, Iowa, held a successful sale of Durocs on Monday, January 17th. Forty head were sold at an average of \$43.60 and something of the uniformity of the offering may be judged from the fact that the top price was \$65 and the lowest price \$35. With the exception of seven head of fall sows the entire offering was made up of spring gilts. Mr. Bert Luch, of West Liberty, Iowa, topped the sale, securing a splendid gilt at \$65. There was a good demand for sows bred to Peachie Commodore, the first-prize boar at Illinois State Fair, 1909, and Wonder Boy, a splendid sow of Messrs. Johnson Bros. & Newkirk's good boar, Double Wonder. Col. Fred Reppert did the selling in a most satisfactory manner and was ably assisted in the ring by Col. Pliny Nichols. List of sales follows:

Lot.	Price.
1. H. Hazlett, West Liberty, Iowa...	\$40
2. Gus Schneekloth, Davenport, Iowa...	45
3. Chas. Nagle, Burlington, Iowa...	50
4. E. S. Thompson, Columbus Jct., Ia...	40
5. J. F. Wilson, West Liberty, Iowa...	49
6. M. E. Moorehead, Blue Grass, Iowa...	46
7. A. C. Hasty, Kalona, Iowa...	50
8. Bert Luch, West Liberty, Iowa...	65
9. F. Bernick, Buffalo, Iowa...	37
10. C. C. Craxen, Atalissa, Iowa...	45
11. J. D. Wright, West Liberty, Iowa...	52
12. H. Doerzerman, Marengo, Iowa...	52
13. H. H. Michenor, West Branch, Ia...	37
14. G. F. Thede, Durant, Iowa...	50
15. John Krebs, Riverside, Iowa...	44
16. A. A. Rossler, Solon, Iowa...	41
17. John Schachner, Wellman, Iowa...	43
18. Aug. Wacker, Wilton, Iowa...	50
19. H. Leenebroch, Lone Tree, Iowa...	52
20. B. C. Walten, Wilton Jct., Iowa...	37
21. A. B. Walten, Wilton Jct., Iowa...	49
22. V. C. Walten...	49
23. A. B. Walten...	40
24. H. H. Michenor...	39
25. A. C. Hasty...	41
26. G. C. Rossler...	38
27. H. C. Nichols, West Liberty, Iowa...	47
28. W. A. Barnes, Blue Grass, Iowa...	40
29. C. J. Shepard, Muscatine, Iowa...	49
30. Albert Walten, Wilton Jct., Iowa...	40
31. R. S. Johnson, Columbus Jct., Iowa...	36
32. G. C. Rossler...	35
33. R. S. Johnson...	42
34. H. H. Michenor...	33
35. Gus Davidson, Muscatine, Iowa...	46
36. John Krebs, Riverside, Iowa...	40
37. V. C. Walten...	54
38. R. S. Johnson...	35
39. A. A. Rossler, Solon, Iowa...	33
40. Same...	35

SUMMARY.

40 head\$1,745; average....\$43.60

HOLT'S GOOD SHORT-HORN SALE.

The Choice Goods blood in the dispersion sale of Mr. W. R. Holt, of Falls City, Neb., on January 12th, attracted a goodly number of breeders from Iowa, Nebraska, Kansas and Missouri, and the sale on the better-bred sorts was spirited. The bull, Double Goods, topped the sale as predicted, going to the millionaire ranchman, Mr. Jos. Miles, of Falls City, Neb., at \$750. The next top price was \$455, paid by Messrs. Achenbach Bros., of Washington, Kan., for Lady Myrtle,

the dam of Double Goods. Mr. C. K. Davies, of Kearney, Neb., got a pair of bargains in Silene's Duke and Prince Silene at \$235 and \$205 respectively. Col. Geo. P. Bellows was on the block and worked hard for the success of the sale. List of sales at \$75 or more is here given:

FEMALES.

3d Lady Myra, twelve years, sire Gala-	had, Bellows Bros., Maryville, Mo. \$200
Lady Myrtle, four years, sire Imp.	Choice Goods, Achenbach Bros., Wash-
ington, Kan.	455
Silene 2d, two years, sire Valentine	Duke, H. H. Keeper, Humboldt, Neb. 200
Silene's Goods, three years, sire Imp.	Choice Goods, T. J. Dawe, Troy, Kan. 250
Queen Secret, eight years, sire Goldie,	C. E. McKinney, Beloit, Kan. 155
Gloster's Beauty, six years, sire Golden	Laird, O. K. Davies, Kearney, Neb. 110
Edith 2d, four years, sire Sulmo, H. C.	Peck, Falls City, Neb. 110
Rhoda 2d, seven years, sire Fremont,	Will Ryan, Falls City, Neb. 100
Francis, five years, sire Gloster Mys-	sie's Duke, J. H. Miles, Falls City,
Neb.	110
Louise, eight years, sire Fremont, E.	A. Paige, Hardy, Neb. 77
Lizetta, ten years, sire Gwendoline, C.	E. McKinney, Beloit, Kan. 75
Dolly's Lovely, eight years, sire Lovely's	Courtier, H. C. Peck. 105
Lady For Us, seven years, sire The Lad	For Us, C. K. Davies. 80

BULLS.

Double Goods, three years, sire Imp.	Choice Goods, J. H. Miles. 750
Silene's Duke, two years, sire Sulmo,	C. K. Davies 235
Prince Silene, one year, sire Sulmo,	same 205

SUMMARY.

10 bulls\$1,662.50; average....\$116.25
28 females 2,862.50; average.... 102.23
38 head 4,535.00; average.... 119.34

THE EDISON PHONOGRAPH SHIPPED FREE.

Mr. F. K. Babson, Dept. 3781, Edison Block, Chicago, Ill., is making a startling offer on the very latest, highest grade Edison phonographs. No other phonograph offer compares with this one, for Mr. Babson offers to ship free one of these superb entertainers. It is not often that you can get such an offer. Even your local merchant will hesitate about letting you take goods home on trial. But on this offer Mr. Babson does not make any conditions at all. You don't have to send a cent of your money. You are not asked to keep the phonograph. You are asked to accept the free loan. After you have had the free loan you may send the phonograph back if you wish. Here are the details of the offer: Mr. Babson will send you free a No. 10 outfit, Fireside Model, Edison phonograph, with one dozen gold molded and amberol records, of your own choosing from the large catalog of records. You are not required to sign any agreements, or any mortgages, leases or notes. Mr. Babson wants you to be free to judge this phonograph without coercion or prejudice. Mr. Edison, who originated and developed the phonograph, has often expressed the wish that there might be a phonograph in every home in the country. He has spent years in bringing it to its present high state of perfection. He appreciates as no one else can, the immense possibilities of the phonograph. For the phonograph is a greater entertainer than any known musical instrument. It is like having a theater in your home. And you surely should take advantage of this free loan offer to get one of these splendid machines in your home and see for yourself what a wealth of fun and music it will bring you and the entire family. There is a good reason back of this free loan offer. It is a business proposition. Because the free loan gives the new Fireside Model Edison more publicity than any other known method of advertising. You are not asked to buy the phonograph. All you are asked to do is to invite your friends and neighbors to the house to hear the free concert. Your friends will be delighted, and perhaps some of them will want to buy phonographs. If they do you can tell them that they can get one at the unusually low terms of \$2 a month. You may decide to keep the phonograph yourself, and if you do it is certain that you will never have a better chance. But if you do not wish to buy, or if your friends do not, it will be all right. The loan is just as free to you, anyway. Even if you do not want to get this free loan at once, you should send for the catalog and full particulars of the free loan. You should not let an opportunity of this kind escape you just because you did not appreciate at the time

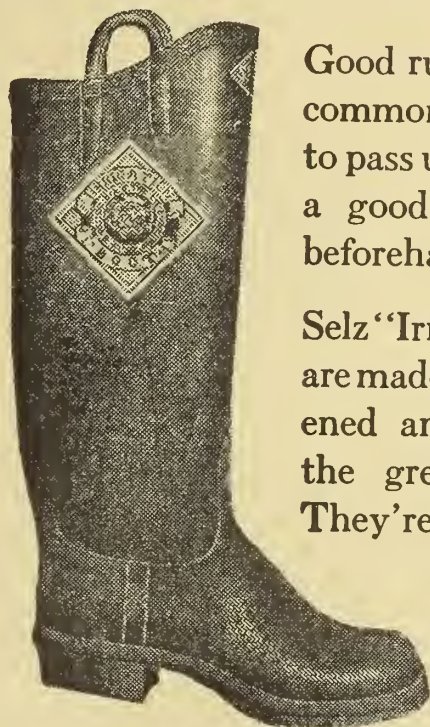
HEED THE BROOKMONT CALL.

bring forth the results that on sale day will prove the highest wisdom of his course. Just think of 100 great Hereford cows in one sale, practically all of them of breeding age. Certainly all of them are in such breeding form as will be appreciated by both buyers and breeders. There has been no pampering of stock at Brookmont. Practical results have been kept in view and practical means employed to secure them. A cow bought at Brookmont and put on any average farm in the country will continue to do well. It is

that farmers will interest themselves in these cattle, as it is his belief that the salvation of the farmer of the West is in the employment of good cattle in his farming operations. The theory is a good one. It is one without fault, and certainly the farmer who fails to appreciate it at its full value will also fail to promote his own interests. We believe that there will not again be such an opportunity for farmers to secure good Hereford breeding cows at the prices which will rule on the day of this sale. We advise

under the supervision of government experts whose ability in that line is unquestioned. This point in itself is of intense interest to buyers. Then there are twenty young bulls in the sale and these partake of the same general excellence as do the cows. They are largely of the same lines of blood and some of them possess show-yard merit. The whole Brookmont institution will be thrown open to the public on sale day. A liberal lunch will be provided for everybody. There will be free transportation to and from the farm.

Selz "Irrigation" is the boot to buy.



Good rubber boots are not so common that you can afford to pass up a chance of getting a good pair, and knowing beforehand that it is good.

Selz "Irrigation" rubber boots are made for service; strengthened and re-inforced where the greatest strain comes. They're good.

Ask your dealer for Selz "Irrigation;" if he hasn't it, send to us.



Largest makers of good shoes in the world

BOSTROM'S FARM LEVEL HAS TELESCOPE

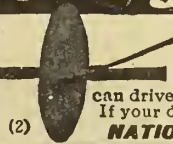
\$15.00 With Magnifying Lenses, Enabling You to Read the Target Over 400 Yards Away,



And is being welcomed by land owners from the Atlantic to the Pacific, for Draining, Irrigating, Terracing, Ditching, Grading, Road Building, Running Fences, Setting Out Orchards, Levelling Buildings and Foundations, Getting Angles, and every sort of work requiring a Level. With this outfit, which includes Level with TELESCOPE and Plumb-Bob in neat wood box, also Tripod, Graduated Rod and Target, no man needs a Surveyor or Civil Engineer. Simplicity, Accuracy, Durability, GUARANTEED. ORDER TODAY, direct from this offer—or, if more complete information is desired, write today. Address,

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Straighter Rows Than Ever



Revolving steel disk marker for corn-planters. Can be placed on any wood or pipe staff. Big improvement over the old cast drag. The staff goes through the hub casting which carries the flange that the disk revolves on. Every farmer takes pride in seeing the straight rows he can drive with it. Weight 6 pounds—13 inch steel disk. Price \$2.00 at your dealers. If your dealer hasn't it, write us for full particulars and you will be supplied.

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what a wonderful opportunity it was. So post yourself on this offer. Send in at once. Get the big list of music that you can listen to on this phonograph. Find out all about the funny monologues and vaudeville sketches. Turn over to the Babson advertisement on another page of this issue and sign the coupon, or write a letter or postal saying that you want to learn all about the free loan offer. Address F. K. Babson, Edison Phonograph Distributors, Dept. 3781, Ed-

ison Block, Chicago, Ill. When writing use coupon in advertisement on last page of this issue.

SCOTCH COLLIES FOR SALE.

If you want good Scotch Collie puppies, read the advertisement of Miss Victoria Saunders, of Manilla, Iowa, on page 30 and write her for further descriptions. Extended pedigree goes with each purchase. These are good sables in color with white markings.



BROOKMONT IS LOOKING FOR YOU JANUARY 26TH.



is a credit to Mr. Cook and his able assistants and a matter of pride to the promoters of the breed. Good cattle are not an accident. They are secured only after the most profound thought and the wisest action. Oftentimes, too, the process involves the expenditure of such amounts of money as to discourage those of weaker faith. Mr. Cook has had faith, he has had the wisdom, he has had the money, and he has not hesitated to make the combination one which should

scarcely necessary to again refer to the magnificent lines of breeding that go to make up this consignment. Back of it all is March On, Dale, Thickset, Imp. Albany, and those who know blood are aware that this list includes about all that has made the Hereford breed the wonderfully perfect animal of today. Mr. Cook is making no special bid for the patronage of breeders at this sale, although there is not an animal in it which would fail to grace any herd in the West and prove an advantage to it. It is his hope

every reader of this paper to make it his business to be at Odebolt on the day of the Brookmont sale, to take part in the varied program and to buy such cattle as his means will permit him to do. There is no risk in the purchase of these cattle. The manner in which they have been kept insures their future usefulness. That they are in perfect health, with reference to infectious disease, is certified by the fact that they have twice been subjected to the tuberculin test and gone through it without loss, and this, too,

Competent and courteous assistants will take pleasure in showing and explaining not only the farm and its facilities, but also the methods by which it is conducted. Brookmont gives a welcome to the whole world on January 26th. Do not fail to attend. Odebolt is located on the C. & N. W. R. R. and can be reached without difficulty from all parts of the country. This invitation is extended to everybody regardless of whether they wish to buy cattle or not. Do not forget this fact and do not fail to attend.

Condition of Seed Corn.

To the Editor of The Homestead:

The condition of the seed corn saved last fall is being discussed freely, but none too much. There is just cause for all of the alarm being shown. Seed picked after the freeze of October 13th requires either a stretch of the conscience or the densest ignorance to class it truly as seed. We were preparing a corn club program a few days ago and decided that a test of some seed picked before the freeze and some picked afterward would be a mighty good demonstration of the advantage of picking enough seed early to plant all of the fields the next spring if the main crop were injured by a heavy freeze before the regular husking, as was the case this year.

Twenty-five ears of the corn picked before the freeze were put into the test, six kernels from each ear. There was just one bad kernel in the whole lot.


Thirty-six ears of the seed selected after the freeze were put to test, twenty-four of them a heavy yielding strain of Reid's Yellow Dent and twelve of them from a flintier corn which matured ten days or two weeks before the other. Of the later maturing corn 41 per cent of the kernels grew. Of the flintier corn 65 per cent grew. For the entire test that made a total of 49 per cent—certainly not a very bright outlook for next year.

Nor was the low percentage of the corn that grew the worst feature brought out by the test. It was the unevenness of growth of the kernels in the same ear. In the later maturing Reid's there was not a single ear in which all six of the kernels gave a strong germination. Very few of them failed to send out one sprout, but as far as growing, especially under unfavorable conditions, they were worthless. The numbers of kernels of the six from each of the twenty-four ears of the later maturing corn were as follows: 2, 3, 5, 5, 3, 3, 1, 0, 5, 1, 2, 4, 2, 3, 5, 0, 1, 2, 2, 1, 4, 5, 2, 1. These kernels were taken out two at a place, two being taken out near the butt, two in the center and two near the tip. It will be noticed that but eight out of twenty-four of the above are even numbers, while two of them are zeros. That means that in 58 per cent of the ears tested there was at least one pair of kernels where one kernel of a pair grew, while the other kernel removed from the ear right by its side failed to germinate. If ears like that have to be used for seed and it looks now as if finding better ones to supply the entire demand is an impossibility, if they have to be used it is going to take a fine combination of arithmetic and chance to get a stand.

In the flintier corn the result by ears of the germination test was as follows: 6, 5, 6, 1, 5, 6, 1, 0, 5, 3, 6, 3. Here the percentage of odd numbers is the same 58 per cent of the ears having at least one pair of kernels, one of which grew and the other did not. This corn matured early and we supposed that it had time to dry out before the freeze. We declared it mature and out of all danger over two weeks before the freeze. And yet see how it germinated.

A test will help. It must all be tested. But the best of tests will not solve the problem. It is beyond solution. The most that can be done now is to test, throw out the worthless, find out very near to what per cent of the remainder will grow and set the planter to match. Of course the fellow who had the seed picked early

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Forty pages in colors

WHAT EVERY FARMER WANTS

YOU CAN GET IT FREE

JUST drop us a post card and we will send you, free, the latest edition of our **Corn Book**, containing the best information from the highest authority on selection and care of seed corn. You can get more and better corn without increased cost by following this book. Every page illustrated and printed in colors. The fact that this book also contains description of

The Deere No. 9 Corn Planter

the most highly perfected machine on the market, adds to its value. Increased accuracy secured by the famous **Deere edge-selection drop**, means anywhere from ten to fifteen bushels per acre over the old style of machine. Repeated tests have shown the above increase in favor of really accurate planting. We have plates for all kinds of corn and other seeds. Instantly changed from hill to drill drop without changing plates. **Fertilizer attachment** that distributes either in hill or drill. Illustration here shows the regular runner, but stub runner or disc openers may be had on special order. In fact, the **Deere No. 9** is strictly up to date in all real improvements.



Deere No. 9 Edge-Drop Planter
Highest Accuracy in Drop

Deere & Mansur Co.
Moline, Illinois.

and stored right is all right. He is in luck—the kind of luck that comes to the fellow who moves on time. But the other fellow—and most of us are in the other fellow class this year—has a proposition on hand. A few cribs of old corn will have to be drawn into line before we find the 1910 crop of the king of cereals “knee high by the Fourth of July” and not a hill missing. Old corn that has kept well in storage looks like the only way over the hill—the missing hill, I mean.

I have never been much of a devotee of the plan of picking the seed corn out before husking commenced. But folks do say that almost anyone would be converted should he meet the devil in his natural garb. I met him last October. His name was Jack Frost. I was converted. The conversion was thorough and unforgettable. It requires neither prophet nor seer to see more germination boxes in the corn belt next spring and more early seed-corn picking bees next fall than we ever saw before. October 13th last was the mightiest clincher ever driven to the gospel of good seed.

O. W. Johnson.

Growing Popularity of Concrete.

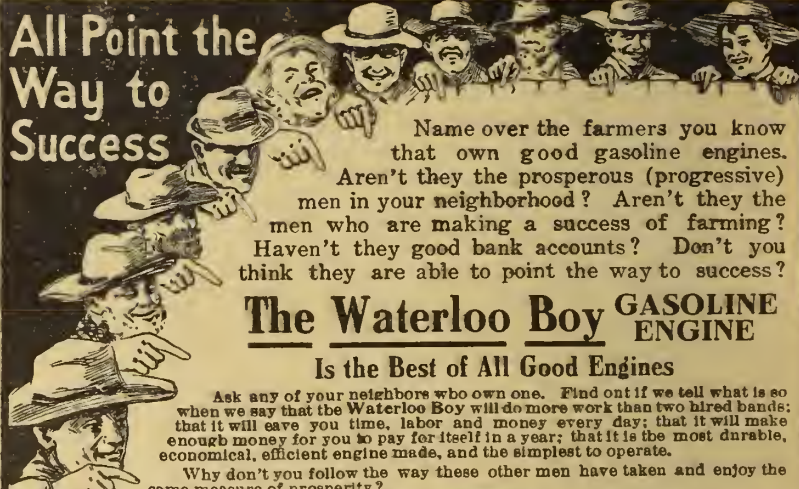
Within the last few years the sale of Portland cement to the farmer has increased enormously. The uses of concrete on the farm are almost unlimited and the interest manifested by the farmer in concrete construction is phenomenal. Requests from the farmers for cement literature received at our office number many thousands each month. The cement shows held in different parts of the country are largely attended by farmers who freely express their great interest in concrete construction, and, according to their own statements, there is nothing of more vital importance to the farmer at the present time, unless it is the price of grain and live stock.

This condition has led us to attend several state fairs with our exhibit of cement, cement products made from our cement, and a supply of cement literature for free distribution. The farmers have availed themselves of such opportunities to become informed on the progress made in cement construction—and herein lies the gist of our reason for addressing you.

Our experience has been that the exhibitors in the cement trade have been greatly hampered by the lack of proper housing and grouping of the various exhibits. While special buildings have been provided on all state fair grounds for the exhibition of farm machinery, live stock, etc., the exhibits of the cement industry, cement, cement products and the machinery used in concrete constructions, have been scattered over the entire fair grounds wherever there happened to be a vacant space in a building or a vacant lot on the grounds. This made it very difficult for the interested visitor to locate the different exhibits, and often he came away disappointed in not having found what he was looking for.

The time has arrived when the cement industry should be given an equal chance with farm machinery, live stock, etc. We believe that you will earn the approval and gratitude, not only of the farmer, but also of the

All Point the Way to Success



Name over the farmers you know that own good gasoline engines. Aren't they the prosperous (progressive) men in your neighborhood? Aren't they the men who are making a success of farming? Haven't they good bank accounts? Don't you think they are able to point the way to success?

The Waterloo Boy GASOLINE ENGINE

Is the Best of All Good Engines

Ask any of your neighbors who own one. Find out if we tell what is so when we say that the Waterloo Boy will do more work than two hired hands; that it will save you time, labor and money every day; that it will make enough money for you to pay for itself in a year; that it is the most durable, economical, efficient engine made, and the simplest to operate.

Why don't you follow the way these other men have taken and enjoy the same measure of prosperity?

We will send you a Waterloo Boy for a real 30-day free trial on your farm doing your own work. We will give you a 5-year guarantee. We let you be the sole judge of whether or not it will pay you to keep it. If you think not, send it back. We will pay the freight both ways and return your money.

Write today for our catalogue and free trial request blank.

Waterloo Gasoline Engine Co.
179 W. Third Ave. Waterloo, Iowa



general public, by providing a building devoted exclusively to the cement industry. We note in a recent issue of a trade journal devoted to the cement industry that, “The Kentucky State Fair Board will ask the legislature for a large appropriation to erect other concrete buildings on the fair grounds. The live stock pavilion and grand stand are of reinforced concrete, and there are several other large buildings to be erected just as soon as funds can be obtained.” We beg leave to suggest that in the construction of such buildings concrete should be used.—(Chicago Portland Cement Co.)

Skim Milk for Pigs.

Where dairies or butter factories are, or where the milk cow is a factor for other purposes than the sale of milk as such, the pig is a most useful and profitable adjunct. Upon the skim milk, judiciously used with other and more substantial foods, he thrives, grows and fattens, utilizing a by-product of tremendous volume which without the pig would represent little of available value. It is said that the skim milk from the butter factories of New York alone amounts to nearly a billion pounds in a single year. The use of this skim milk does much to give relief from monotony so common in the hog's feeding, besides adding to the returns from the other or main foods with which it is given, and every hog raiser is glad to have it.—From Coburn's “Swine in America.”

LIST BROS. AVERAGE \$50.

The opening sale of the Northwest Iowa Duroc Jersey Circuit was held at the home of Messrs. List Bros., Granville, Iowa, on January 11th, and a splendid crowd of both farmers and breeders were on hand. The boys put up an excellent lot of sows in nice condition and an average of \$50 was made on thirty-six and one-half head. No. 6, an April spring gilt sired by Iowa Notcher and out of a daughter of Savannah Belle Chief,

topped the sale at \$160, going to Mr. A. J. Reisser, of Platte, S. Dak. A half interest in Sioux Chief was offered for sale and was purchased by Mr. Frank Hollis, of Granville, Iowa, at \$100. Col. Frank Luther cried the sale. Below we list everything sold in the sale:

Lot.	Price.
1. Peter Hettendorf, Yale, S. Dak. . . .	\$ 77.50
3. James Kinney, Alton, Iowa. . . .	55.00
4. James Williams, Marrus, Iowa. . . .	50.00
5. H. L. Cantine, Quimby, Iowa. . . .	70.00
6. A. J. Reisser, Platte, S. Dak. . . .	160.00
7. Hugh Irwin, Ireton, Iowa. . . .	62.00
8. William Taylor, Ireton, Iowa. . . .	55.00
9. Frank Hollis, Granville, Iowa. . . .	50.00
10. John S. Stallman, Granville, Iowa. . . .	28.00
11. Gus Ollis, Granville, Iowa. . . .	44.00
12. Frank Hollis. . . .	50.00
13. J. P. Fritz, Alton, Iowa. . . .	45.00
14. Peter Hettendorf. . . .	55.00
15. F. J. Goergen, Granville, Iowa. . . .	39.00
16. J. P. Stalley. . . .	40.00
17. T. Steichen, Alton, Iowa. . . .	40.00
18. Will Taylor, Ireton, Iowa. . . .	49.00
19. Claud Huffman, Scrantom, Iowa. . . .	46.00
21. Will Killborn, Granville, Iowa. . . .	40.00
22. Chas. Johnson, Hawarden, Iowa. . . .	50.00
23. A. McCurdy & Son, Alta, Iowa. . . .	52.00
24. T. Steichen. . . .	39.00
25. Chas. Johnson. . . .	49.00
26. Will Taylor. . . .	36.00
28. Will Killborn. . . .	34.00
29. C. A. Rasmussen, Harlan, Iowa. . . .	49.00
30. Geo. Thurman, Granville, Iowa. . . .	45.00
32. A. Lentz & Son, Pierson, Iowa. . . .	37.00
33. J. H. Bussmas, Granville, Iowa. . . .	38.00
34. John L. Sours, Granville, Iowa. . . .	26.00
35. John Tremmel, Ashton, Iowa. . . .	35.00
36. Henry Diegel, Marcus, Iowa. . . .	36.00
37. J. L. Sours. . . .	36.00
38. John H. Miller, Granville, Iowa. . . .	34.00
31. Theo. Treinen, Remsen, Iowa. . . .	30.00
41. John Tremmel. . . .	47.77

SUMMARY.

36 sows . . . \$1,720.50; average. . . \$ 47.77
36½ head . . . \$1,820.50; average. . . 50.00
One-half interest in Sioux Chief. . . 100.00

DAN CLARK'S RED POLLED SALE.

The blizzard of January 13th and consequent complete tie up of railroads prevented breeders from attending the Red Polled sale of Mr. Dan Clark, at Cedar Falls, Iowa, on Friday, January 14th. A few animals were sold and Mr. Clark retained the balance of the offering to be sold at public auction later in the season. He has a nice lot of young bulls, half-brothers to Midnight, the many times champion, that will be sold at private sale at reasonable prices. Write Mr. Clark for particulars regarding his herd.

Ask your neighbor to subscribe for The Homestead.

CORN BELT MILL

This mill is strongly constructed, and takes less power than any other mill of its capacity. The late-centered burrs insure fine, even grinding. The new feed regulator gives perfect regulation on ear corn as well as small grain. The burrs may be changed in three minutes. This feature is worth the price of the mill to a good many.

Try it 20 days FREE

We would like to have you test a Corn Belt Mill on your farm for 20 days. If it doesn't do its work better than any mill you ever used, send it back at our expense. Learn more about this mill. Write for booklet to-day.



SPARTAN MANUFACTURING CO.
DEPT. 61 PONTIAC, ILL.

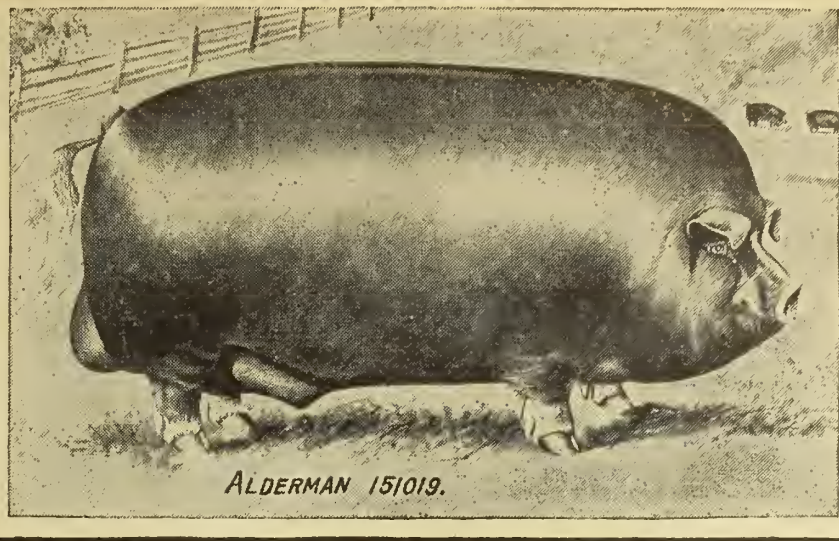
JAMES WILLIAMS' DUROC SALE.

The sale of Mr. James Williams, at Marcus, Iowa, on January 13th, again encountered one of the most severe storms of the season, but notwithstanding this he sold forty-six head at an average of \$47.10. Mr. Williams never makes a sale that he does not encounter a storm of some kind. It seems unfortunate, too, because there is no better man to assist his fellow breeders than Mr. Williams. Had the weather been different on the day of sale he would have made a far better average. Belle's Fancy topped the sale at \$132.50, going to Messrs. Waltemeyer Bros., of Melbourne, Iowa. Below is a list of the entire offering:

Lot.	Price.
0. Waltemeyer Bros., Melbourne, Ia.	\$132.50
1. L. H. Lamar, Storm Lake, Iowa...	71.00
2. A. P. Alsin, Boone, Iowa...	98.00
3. A. Lentz & Son, Pierson, Iowa...	57.50
4. W. I. Jacques, Galva, Iowa...	74.00
5. M. Spencer, Audubon, Iowa...	62.50
6. W. H. Jones, Quimby, Iowa...	90.00
7. Moorehead & Son, Blue Grass, Ia.	74.00
8. S. L. Hopper, Neola, Iowa...	59.00
9. Henry Brown, Marcus, Iowa...	49.00
10. W. L. Hall, Logan, Iowa...	72.00
11. Albert Ducommun, Cleghorn, Ia.	47.50
12. List Bros., Granville, Iowa...	70.00
13. H. L. Cantine, Quimby, Iowa...	50.00
14. Albert Ducommun...	48.00
15. A. McCurdy & Son, Alta, Iowa...	40.00
16. Same...	47.50
17. J. M. Fleming, Dixon, Ill.	59.00
18. Floyd Knapp, Redfield, Iowa...	79.00
19. Geo. Everts, Audubon, Iowa...	48.00
20. M. S. Moats & Son, Missouri Valley, Iowa	53.00
21. Edmonds, Shade & Co., Kingsley, Iowa	38.00
22. Sexsmith & Strong, Greenfield, Iowa	39.00
24. Claud Huffman, Scranton, Iowa...	45.00
25. Henry Brown...	29.00
26. R. J. Harding, Macedonia, Iowa...	40.00
27. J. A. Shade & Co., Kingsley, Ia.	30.00
29. John S. Laux, Le Mars, Iowa...	25.00
29 1/2. W. I. Jacques, Galva, Iowa...	34.00
30. John De Young, Sheldon, Iowa...	25.00
31. Henry Brown...	34.00
32. Ned Ames, Marcus, Iowa...	21.00
33. John Graff, Marcus, Iowa...	39.00
34. A. M. Swanson, Marcus, Iowa...	30.00
35. Jno. S. Laux...	27.00
37. Ned Ames...	21.00
38. Same...	25.00
39. Same...	25.00
40. Henry Brown...	30.00
41. John Goddard, Harlan, Iowa...	33.00
42. W. I. Jacques...	25.00

BIETH & SON'S SUCCESSFUL SALE

The opening sale of Duroc Jersey bred sows was held by Messrs. Frank Bieth & Son, of Joliet, Ill., on January 10th, and it was a pronounced success. These gentlemen had a good offering and it was appreciated by the breeders and farmers present. A good crowd of breeders came in on the morning train. Col. B. by Col. S. is one of the good yearling boars in the country and sows bred to him were in great demand. Mr. S. Melbourne, of Wilmington, Ill., bought the top sow at \$241. She was sired by Masterpiece and bred to the great Defender. Mr. A. S. Kramer, of Morris, Ill., secured Macon Belle by Macon Chief at \$205. Mr. Ernest Pancake bought a daughter of Ransom Chief at



ALDERMAN 151019.

A POPULAR POLAND CHINA.

The above engraving represents the artist's idea of a Poland China, Alderman 151019, now at the head of the herd of Mr. J. H. Watson, of Madrid, Iowa. Alderman is a prize winner, having been second in class at the Iowa State Fair last fall. He has plenty of size, as at the age of eighteen months he pulled down the scales to 600 pounds. He comes by his prize-winning qualities, legitimately because his sire was Indiana, one of the best sons of that great show hog, L. & W. Perfection, and his dam was by Chief Sunshine and back of that a line of old Sunshine family brood sows originated by T. J. Harris and which has not been excelled for breedy character since that time. Mr. Watson has for sale a number of excellent brood sows bred to this hog. For any information concerning them write to Mr. J. H. Watson, Madrid, Iowa. See page 60.

\$130. Messrs. Bieth were well pleased with the sale and are to be congratulated upon the success they have attained in the business in the time they have been connected with it. Colonels Reppert and Igleheart did excellent work in disposing of the offering. Following is a list of sales:

Lot.	Price.
1. S. Melbourne, Wilmington, Ill.	\$241
2. A. S. Kramer, Morris, Ill.	205
6. Wm. States, Elwood, Ill.	36
7. Menaugh Bros., Mazon, Ill.	39
8. H. Bush, Elwood, Ill.	51
9. R. F. Kendall...	39
10. A. Parks, Joliet, Ill.	78
11. R. F. Kendall...	37
12. Thos. Cavanaugh, Elwood, Ill.	38
13. A. Parks...	57
14. R. F. Kendall...	35
15. W. M. Walker, Niles, Mich.	38
16. Hanson Goodwin, Mintoak, Ill.	56
17. F. P. Mapps, Wilmington, Ill.	43
18. C. C. Hudson, Benton, Ill.	71
19. Sam Parks, Joliet, Ill.	26
20. J. Berge, Joliet, Ill.	30
21. M. Palmer...	33
22. C. C. Hudson...	65
23. A. E. Knight, Whitehall, Ill.	42
24. R. F. Kendall...	41
25. M. E. Madison, Joliet, Ill.	87
26. T. W. Walker, Mazon, Ill.	36
27. Thos. Cavanaugh...	37
28. J. W. Evans, Kirksville, Ill.	36

29. Ernest Pancake, Ransom, Ill.	130
30. A. F. Kramer...	70
31. L. A. Mooney, Mazon, Ill.	33
32. T. W. Walker...	40
33. Chas. Reese, Morris, Ill.	82
34. S. Melbourne...	57
35. Hanson Goodwin...	36
36. L. A. Mooney...	37
38. Menaugh Bros.	39
39. John O'Brien, Joliet, Ill.	50
40. Menaugh Bros.	40
41. W. E. Madison...	71

SUMMARY.

40 head\$2,298.50; average...\$57.50

YOUNG'S POLAND AND DUROC SALE.

Mr. Robert M. Young, of Cook, Neb., made a successful sale of both Poland Chinas and Duroc Jerseys at the home farm on January 11th, despite the most unfavorable weather conditions. He sold twelve good Poland sows and gilts, the most of the offering being gilts, for an average of \$32.60, the top price being \$42. The Duroc sale was a little more snappy and twenty-three head sold for an average of \$26.60, a very good average when the fact is taken into consideration that a great many gilts that were not cataloged and not bred were run in and sold, they being included in the average. Colonel Callahan did the selling.

The list of sales at \$25 or more is given below:

2. W. R. Clark, Talmage, Neb.	\$15
5. G. G. Betzelberger, Cook, Neb.	41
6. W. R. Clark...	36
6 1/2. E. Platt, Cook, Neb.	29
7. Henry Holtgreve, Lorton, Neb.	36
8. E. Platt...	29
9. Same...	29
10. Henry Holtgreve...	37
11. Wm. Loggsen, Tecumseh, Neb.	35
12. Same...	35
13. L. A. Bord, Talmage, Neb.	33
14. Frank Howarth, Cook, Neb.	27
15. Same...	27
16. Geo. Dorsch, Cook, Neb.	51
16 1/2. W. M. Snowden, Cook, Neb.	37
17. G. G. Betzelberger...	42
18. Geo. Starnier, Cook, Neb.	50
19. W. R. Clark...	30
20. Same...	28
21. Robt. Gibb, Tecumseh, Neb.	31
22. Same...	32
22 1/2. Jno. Dibble, Tecumseh, Neb.	29
23. Ed Rankin, Tecumseh, Neb.	32
24. W. M. Snowden...	27
25. Same...	23
26. Geo. Dorsch...	25
28. W. M. Snowden...	19
29. Carl Kuhlman...	19

MILLER'S SHORT-HORN SALE.

Mr. George H. Miller, of Harlan, Iowa, held a public sale of Short-horn cattle on Tuesday, January 11th. While there was a fairly good attendance the various conditions affecting the cattle caused a depression in prices. Twenty-five head were disposed of at an average of \$78.60 each. Mr. W. H. McLaughlin, of Shelby, Iowa, was a liberal purchaser. Mr. Wm. Bessman, of Shelby, Iowa, paid \$140 for the bull, Lord Scotchman, which was the top price of the sale. Other buyers were Messrs. Ed. Christensen, Walnut, Iowa; W. J. Davis, Harlan, Iowa; E. L. Martin, Harlan, Iowa; John C. Miller, Harlan, Iowa; Ralph Miller, Harlan, Iowa; Roy Linn, Shelby, Iowa; H. L. Kemp, Harlan, Iowa; C. A. Saunders, Manila, Iowa; A. Stewart, Harlan, Iowa; Clark Bros., Harlan, Iowa; C. C. Culver, Dunlap, Iowa; F. De Klotz, Kirkman, Iowa; Geo. A. Hamm, Harlan, Iowa; Otto Dittbender, Madison, Neb.; J. C. Steele, Harlan, Iowa; W. B. Tague, Harlan, Iowa, and Ernest Frank, Botna, Iowa.

REECE'S DUROC JERSEY SALE.

Mr. J. O. Reece, of Eldora, Iowa, held a public sale of Duroc Jersey hogs on January 7th. Conditions were all unfavorable; railroads were practically under a state of blockade and the extremely cold and stormy weather made it hard for even nearby farmers to get out. However, the sale was carried on in a fairly successful way. Forty head were disposed of at an average of \$39.37. The top price of the sale was paid by Mr. Horace Pryline, of Elberon, Iowa, for Ruberta's Lady, an aged sow of combined Crimson Wonder and Tientsin breeding. Among other buyers were Messrs. Messer Bros., Grundy Center, Iowa, who took eleven head; Chas. Stauffer, Eldora, Iowa; C. E. Wienske, Rockford, Iowa; A. L. Mossman, Radcliffe, Iowa; Balmat & Son, Mason City, Iowa; Hy. Andrews, New Providence, Iowa, and O. L. Mossman, Polk City, Iowa.

Friends—Tell Me Your Power Needs

SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horsepower from a real engine factory. Save dealer, jobber and catalogue-house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. Come to Waterloo and see it. I sell them direct to you for less money than some factories can make them at actual shop cost—I make so many. All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

Anybody can afford and might just as well have a high-grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for in carload lots for spot cash. An engine that is made so good in the factory that I will send it out anywhere in the U. S. without an expert to any inexperienced user, on 30 days' free trial, to test against any engine made of similar horsepower that sells for twice as much, and let him be the judge.

INFORMATION YOU WANT TO KNOW

Here's how the other fellow answers your questions. I have hundreds of original letters like these—A lot more also in my Engine Book. Get it.

How About Cold Weather?

My engine came O. K., goes O. K., I like it O. K. and it is O. K. The engine I had last winter I had a dread of starting it in the morning, but this one is a pleasure; for, instead of 1 barrel of water, 2 pails does the job. I advise anyone wishing an engine to try the Galloway, as it costs nothing to try, according to their terms. W. P. Jennings, Chippewa Falls, Wis.

Is It Powerful and Economical?

When words cannot express a man's thoughts he

is up against it. I think you have the best engine on the market for the money. It is easy to start; it is simple; it is powerful, and it is a smooth runner. I or no other man knows the worth of an engine till he has used one. I would not think of being without one at any price, and, if I was buying a dozen, they would be Galloways. On the coldest morning, all I have to do is to turn the gasoline on, throw the switch in and turn half over—and are gone. My brother used to sell fair engines and he was up to my place. He said my 5-H.P. Galloway beat anything he ever saw.

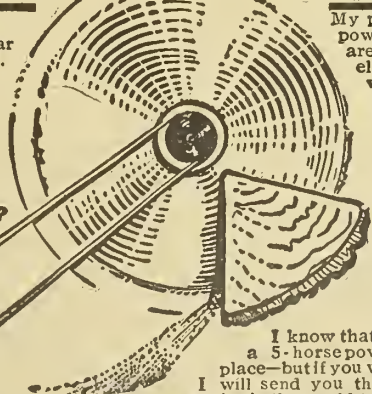
Anybody doubting this testimony, I would be glad to hear from them. E. J. Oliphant, Dodge City, Kans., R. No. 1.

Is It Simple and Easy to Start and Run?

I find the 5-H.P. engine that I purchased from you to be all that you claimed it to be. Without previous experience, I have no trouble in operating it, while several of my neighbors, with other makes of engines much higher priced, have to call in experts frequently to put them in order. I certainly would not trade it for any engine I ever saw run. E. Loomis, Gibbon, Neb.

Cut out this Coupon and mail to me now:
FREE WM. GALLOWAY, Pres.
Wm. Galloway Co., of America
BOOK 105 Galloway St., Waterloo, Ia.
Here's my name and address—send me FREE your Big New 1910 Galloway Gasoline Engine and Power Book—also Low Prices—30-day Free Trial offer and Special Proposition direct from your factory to me.

Name.....
Town.....State.....
IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. I also make the famous Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader. Also the Galloway Cream Separator. All sold on same direct plan as my Gasoline Engines. If interested, ask for my Spreader or Separator Catalogs—FREE.

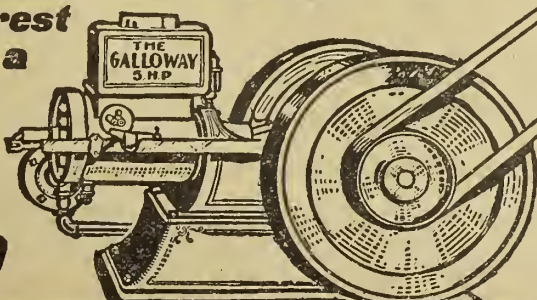


My prices for any horse-power engine you want are way below anybody else's—and you get the very highest quality in every Galloway machine.
2-Horse-power Galloway Gasoline Engine \$59.50

Galloway

Keep the \$100 That I Save You at Home in Your Own Pocket—That's as Near Home as You Can Get.

Sell your poorest horse and buy a **5-H.P. —Only \$119.50**



GASOLINE ENGINES Direct to You on 30 Days' Free Trial

How Galloway Engines Save and Make You Money—Their Uses

1. On the Farm—Power for so many kinds of work that they practically save a big share of your hardest labor—and solve the "hired help" problem most of the year.
2. Cream Separator—Run it twice a day, or 730 times a year. Think that over for the women's sake and your own.
3. Churning—Saves all the hard work.
4. Wash Machine—Every week—it saves the woman's work.
5. Grindstone—Saves one man's time turning.
6. Shelling, Shredding and Feed Cutting, besides running the Fanning Mill, etc., etc.
7. The Elevator and Silo—Galloway furnishes the power.
8. Sawing Wood—See Galloway's outfit and description at the right, here.
9. Pumping—Power instead of "back work" or the wind-mill—no matter where your water comes from, you will thank Galloway for this suggestion.
10. Spraying Machines—Cheapest, handiest way to run.
11. Many Other Ways explained on pages 10 and 11 and all through my Big Free Gasoline Engine Book—Free to you if you send your name to Galloway. Do that right away and see about them—with hundreds of illustrations from farms and factory. Write today.
12. Grinding—Are you paying toll to some other man? Why not buy a Galloway and grind all your own feed? You'll be astonished to see how much you have been losing. Write Galloway—That's the best use you can make of your time right now, while it's on your mind.

Get Galloway's Biggest and Best FREE GASOLINE ENGINE BOOK. Write today for my beautiful, new 50 page Engine Book in four colors; nothing like it ever printed before; full of valuable information, showing how I made them and how you can make more money with a gasoline engine on the farm. Write me—**Wm. Galloway, Pres.**

THE WILLIAM GALLOWAY COMPANY OF AMERICA
Authorized Capital, \$3,500,000.00. 105 Galloway Station, Waterloo, Iowa

POULTRY

A Turkey Remedy.

To the Editor of The Homestead:

Since successful turkey raising has become such a problem, all new light on the subject should be disseminated as widely as possible. A writer in one of the poultry journals, having faced a serious phase of disease in his valuable flock of turkeys, found a remedy that proved in his case, at least, very successful. His birds when attacked became drowsy, heavy on their legs, but ate well until death. There was looseness of the bowels, evacuations changing from white to green and then to white again—some afflicted specimens dragging about for a week, while others would drop off suddenly. Post-mortem examinations showed the liver in a strange condition. It appeared to have turned into white stone.

As his flock was a fancy one, his losses in valuable birds were heavy. He tried every remedy he could hear of, and finally, in the course of his experiments, he succeeded in finding something which brought back to health many he had almost given up as dead. For the benefit of other turkey raisers he gives particulars of treatment:

The first step was to administer a tablespoonful of castor oil to grown birds; to smaller birds a proportionate amount. This was followed every hour for six hours with one-half teaspoonful of the powder whose ingredients are given below; then one-half this quantity for three hours. The formula for the powder was as follows:

Gentian, two ounces; fenugreek, two ounces; sulphur, two ounces; saltpeter, two ounces; cream of tartar, two ounces; resin, one ounce; black antimony, one ounce; ginger, three ounces; licorice, three ounces, cayenne pepper, one ounce.

Pulverize and mix. It does not cost more than seventy-five cents when prepared by a druggist. This man considers it the cheapest seventy-five cents' worth of turkey medicine

he ever bought. No wonder; for he believes it saved him four very fine turkey hens which he could not have replaced for \$100.

Mrs. S. B. Titterington.

Broken Bones and Other Injuries in Poultry.

To the Editor of The Homestead:

Dr. N. W. Sanborn is well known as authority on poultry disease. In a recent issue of the Poultry Herald he discourses most helpfully regarding the subject of this article. As he truly asserts, there comes a time in the experience of every poultryman when a little knowledge of surgery may not only save a valuable bird, but also save a big leak in profits. A common hen may not be worth the trouble it will take to cure her, as she can prove her value on the table. But when it is a valuable show bird, or an exceptionally fine breeder the case is different. A splint for the broken bone, or a few stitches in the torn comb and wattles may prove valuable. In reference to broken bones, he says:

Grown poultry seldom have broken bones outside of the wing and legs. Where you meet one case of broken wing you see ten of broken legs. In case of broken wing bones you can do little except to bandage the wing to the body for a week or two, and be willing to take a little deformity in the healing. In case of breaks in the leg above the shank much depends on the size and fatness of the leg. If the bird is moderately thin you can apply small splints of pine to the parts, covering the legs with a thin bandage, then a half a dozen splints held in place by a few turns of the inch bandage. Get the broken bone in proper relation and by means of the home-made splints and bandages hold the leg in shape until the break becomes strong enough to bear the weight of the bird. I have seen most broken bones in fowl in the shank. Such a break in a valuable bird can be treated with pleasure and profit. Wrap a layer of cotton batting around the shank, place a dozen toothpicks so as to cover the break, and a few turns of the bandage holds them in proper place to control the motion of the two fragments of bone. Notice that the leg is not twisted after setting, as it would bother the hen if her toes were turned around and she scratched the wrong way after she got the use of her game leg.

The slender, tiny legs of the chicks are easily broken. They may be stepped on, caught in the wire fence, and the like, but such fractures unite with remarkable rapidity with a little prompt attention. Sometimes merely mending the broken shank with surgeon's plaster will suffice for support, or the toothpick splint may also be needed. When the injured leg is properly done up, it is surprising how far these tiny surgical cases will travel in a day, and come out all right in the end and as chipper as possible.

Cuts and tears are apt to be more difficult to manage than fractures. The barbs on wire fences, broken glass, sharp tools, and, last but not least, sanguinary fights between blue-blooded male birds, often require attention. Dr. Sanborn does not promise immunity from scars, but if taken early, damage may be repaired so as to leave a fairly presentable bird.

The first step is to cleanse the wounds with a milky mixture of sulpho-naphthol or one of the numerous preparations along that line. This must be thoroughly used, so as to clean out all dirt, and destroy any germs that may be present. Then sew the parts together with fine white silk and a fine needle that has been held in the flame of a match to sterilize it. Use the surgeon's stitch, which takes up one edge at a time. Make each stitch complete; that is, when one is firm, cut the silk and make another. Never run the silk from stitch to stitch. When the sewing is complete and the bleeding stops, cover the line of the cut with collodion. Cleanse the hands thoroughly before beginning the operation and use new, clean silk and the sterilized needle. If silk cannot be obtained quickly, cotton thread may be used, but it is not as safe as the silk.

If pus begins to form along the line of the cut, use full strength hydrogen peroxide. This will foam, penetrating and cleansing the wound. When well healed, cut each stitch with sharp-

One Gallon of Oil and One Filling of the Lamp for a Hatch with the X-RAY Incubator

The new incubator way saves oil because it doesn't waste heat. We control the heat—burn the lamp as high or low as wanted. Our automatic regulator acts on the burner, while other incubators burn the lamp high all the time. Never fill during the hatch; no need to regulate; automatic lamp does it all. Thermometer always in sight. Eggs need not be removed during entire hatch.

Built on an Entirely New Principle

Enameled-steel-covered; rosewood finish. Lamp is in center where it should be—not on side. Hot air radiates to heat all eggs alike. All heat saved and used. Machine raised to hatching temperature in 15 minutes. Real ventilation by raising lid—hatching fumes bound to rise.

Only Incubator of its Kind

It's crowding all others out because it runs as steady as a clock and produces certain results.

Write for Free Catalog and know all about the wonderful machine. Brooder on same heating plan—just as certain results. You read our book. Address

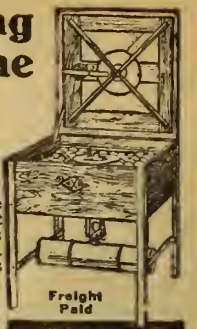
X-RAY INCUBATOR COMPANY,

Try it 3 Hatches

Doesn't cost you a cent if not as represented. You'll never let it go, if you try it.

Don't buy either incubator or brooder till

18th Street, Wayne, Neb.



pointed scissors, pulling out each thread.

Dr. Sanborn has put poultry folks in his debt by this timely, simple, and yet important information.

Subscriber.

Why Don't My Hens Lay?

To the Editor of The Homestead:

A subscriber, of Goldfield, Iowa, asks this ever recurring question:

I have sixty Plymouth Rock hens and pullets. The latter were from early hatches last spring and I think it is time for them to begin to lay. We have two dozen old hens and we haven't gotten an egg since last October. We always give them milk and keep fresh water before them and feed two or three times a day. For breakfast we feed them oats and corn, oats, wheat and potatoes in the afternoon. Sometimes we cook the potatoes and sometimes feed them raw. We always keep a box of gravel handy. Our hens are healthy looking, and we would like to know if there is anything else we can do. Would also like to know whether five roosters are enough for sixty hens.

It is not always easy to understand why hens do not lay, especially when they are as well cared for as they are in this instance. So many factors enter into this problem, particularly at this season of the year, that it is a difficult matter to put one's finger upon the one applicable to each particular case.

The best of laying hens must take a rest some time, and they are most apt to take it in connection with the molting period, which often extends into the late autumn and early winter. This, of course, applies only to hens. Early hatched pullets often begin business so as to cover the vacation taken by the old birds. There is, also, a difference in breeds, as some begin laying earlier than others. There is also a great difference between different strains of Plymouth Rocks. Some strains almost equal as layers the Leghorns and Rhode Island Reds, while others are poor layers, beginning late and resting early. The reason for this is, doubtless, because it is so generally the farmer's fowl, that it has been the victim of much careless breeding. The remedy for this condition is to secure new blood from well-known breeders, whose birds hold records for persistent laying.

Glancing over our correspondent's feeding rule, it seems a good one, although somewhat narrow along the lines of both green and meat food. Potatoes are excellent, but it would be better to supplement them with something more distinctively "green." Cabbage is good. If alfalfa is procurable, the leaves shattered from the stems, scalded with boiling water, and allowed to stand tightly covered, will look and smell like new mown hay, and be greatly relished by the fowls. Cut clover is also good, treated in the same way. Middlings stirred in to steam with the alfalfa or clover is excellent. Milk has much of the meat elements, and is good egg food. But if green cut bone can be added in moderation to the ration and fed three times a week, the results should soon be made manifest.

The poultry house seems admirably arranged, but our correspondent says nothing about ventilation. It has been well proved that fowls in open-front houses are much healthier, and lay better, than those in closed houses. Of course it would not be wise to

125 Egg Incubator \$10 and Brooder Both For \$10

If ordered together we send both for \$10. Freight paid east of Rock-Is. Hot water, copper tanks, double walls, double glass doors. Free catalog describes them. Wisconsin Incubator Co., Box 105, Racine, Wis.

SHOEMAKER'S BOOK on POULTRY

and Almanac for 1910 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickenhood. You need it. Only 15c. C. C. SHOEMAKER, Box 679, Freeport, Ill.

43 Leading Varieties of pure bred Chickens, Ducks, Geese, Turkeys; also Holstein cattle. Prize winning stock. Oldest and largest poultry farm in the northwest. Stock, eggs and incubators at low prices. Send 4 cents for catalog. LARKIN & HERZBERG, Box 13 Mankato, Minn.

make radical changes in the dead of winter, but as a factor in the present problem, it is well worth considering. Five male birds should be sufficient for sixty hens if well-matured and vigorous. Subscriber.

Winter Chickens.

To the Editor of The Homestead:

It seems to be a settled proposition that winter chickens are of doubtful profit. As old-timers say, "It's agoin' agin Natur" to attempt hatching in the winter months, at least. Low fertility, difficulties in incubation, and unfavorable temperatures for the babies ushered into the world at such a time, seemed to lend force to the argument against fall and winter hatches.

But now, after our minds were comfortably settled, a New York state man claims the floor, and declares that the general belief is all bosh—for he has tried it, and he knows! Through the columns of "Poultry Success" he proclaims his view of the matter, and it is certainly interesting.

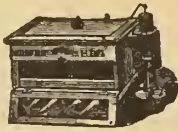
He claims that chicks can be hatched profitably from September 1st to June 1st, and that the other three months are unprofitable. His experience convinces him that chicks endure cold weather better than extreme heat. There is no such battle with disease, lice and mites as during the summer months. The expense of feeding is no greater in winter. Despite popular belief, there is profit even in November, December and January broods. He says the winter-hatched chicks do not grow as fast as the spring hatches, but they don a heavier coat of feathers. In the spring and summer hatches, we often see half-naked chicks, but this man tells us that he has never had a winter chick that outgrew its clothes. They feather rapidly in cold weather and are ready for the market in April and May when the fancy prices prevail.

For winter chickens he advises the larger breed. To quote from his experience:

One winter I raised 500 in a vacant room in the house. I could almost see them grow. I took 500 from the incubator and only lost three out of the whole lot. I kept them in the room until they were feathered out. It was a care, but it paid. They were growing into money while I slept. When they were less than two pounds I sold them for sixty cents apiece. I know of a neighbor who has been feeding forty steers for seven months through all kinds of

Hatch Chickens By Steam

Make the hatching of your 1910 chicks sure and easy. Stahl's Excelsior or Wooden Hen Incubators are not experiments. They are so sure that a fertile egg means a live, healthy chick. You get real incubator value in either machine. Equip



early, and grow and market your early-hatched broilers when prices are high. Early money is the biggest.

Write to-day for free catalog. GEO. H. STAHL, Box 7-X, Quincy, Ill.

BEGIN NOW

Now is the time to plan your poultry work for this season. If you need a new incubator or brooder please write us. We will save you money. The materials in our machines this season we bought before the present high prices. We do by machinery what others do by hand. Result—Lower price to you. Drop us a postal for our catalog. CEDERTEL CO. 171 Kentucky & QUINCY, ILL.



On My Plan or Yours?

Tell me you will try on my plan, a "QUEEN" or say what other plan you prefer. We'll fix it up. Best incubator, low price; I pay freight. Three months' trial. Five years' legal guarantee. NOW send for catalogue. Wickstram, Queen Incubator Man, Box 10, Lincoln, Neb.



RAYO INCUBATOR

SAVES Money, Labor, Oil.

NOTE: 1st—Double heating system gives equal radiation. 2nd—Turn eggs without removing tray. 3rd—One filling of oil tank for entire hatch. 70 day trial guarantee. If not as represented return and money refunded. Freight prepaid. Write for Free Book. The RAYO INCUBATOR CO., Burt St., Blair, Neb.

weather, and he does not expect any such profits.

Winter chicks suggest early broilers. Many have undertaken the business and failed, yet it returns good profits to those who have mastered the secret of success. The cost of hatching broiler chicks in January and February is no greater than that of May or June. If the one attempting this business can get the eggs from his own hens he can be much surer of the fertility than when dependence must be put on purchased eggs. These winter chicks are ready for market in April or May when the price is at its highest for the year. Those ready for market in July and August, when the market is glutted, give a very small margin of profit. We quote again from our New York friend:

The secret of profit from broiler raising is to produce high-class broilers that will bring top prices at the smallest cost, with rapid growth and low mortality of the chickens hatched. Eggs averaging high in fertility and produced by stock that is strong and vigorous, makes the battle half won at the start. This is the strong argument in favor of the broiler poultryman raising his own eggs so he can have control of the condition of strength and vigor. There is good profit in broilers selling at spring prices when they only cost about twelve and one-half cents per pound to raise. Most business men would be happy could they see so good a per cent of profit in their business.

This advice is especially timely at present. While most of us, perhaps, will hesitate to plunge headlong into such unknown waters, a little careful experimenting may be of value.

Mrs. S. B. Titterington.

Curing Roup.

To the Editor of The Homestead:

Mr. P. V. B., Kanawha, Iowa, asks for a remedy for roup, where conditions are such that fowls cannot be yarded and kept from water other than that which the remedies or preventives have been placed in. He finds that he cannot make them drink these waters where they have access to other water, so he wants a remedy to suit this condition.

I recommended those remedies as a labor saver and because I know where the trouble of catching fowls has to be resorted to it is not only more injurious to fowls, by a constant excitement, but is so much work and occupies so much time to do it and, as roup is somewhat of a lingering disease, few people will be vigilant enough to succeed. Right here is where the argument comes in favor of having a yard to all poultry houses. I have often repeated this in the columns of this paper. Be the yard ever so small its use cannot be dispensed with. The smaller yard room for roup fowls the less labor is involved

in disinfecting. Disinfecting cannot be dispensed with where real contagious roup has taken a foothold in the yards. The infectious matter from the discharge of the mucous surfaces seems to retain germ life for months, hence a thorough disinfecting must be resorted to. For this the Douglas mixture is good, or if a spray is desired a 5 per cent solution of carbolic acid or, if a sprinkle is preferred, as many do not have the spraying outfit, use a 2 per cent solution of the acid. Do this at intervals and always bear in mind that a fowl once infected with roup is susceptible to that disease thereafter and that is why poultrymen of experience agree almost unanimously that the block and hatchet is the best remedy for all virulent forms of roup. But as our correspondent has asked for such a cure without using it in the drinking water, I will give him this advice: Give frequent doses of castor oil in tablespoon doses to adult stock, using the utmost care that it is not poured down the windpipe. A syringe is always best to give liquid medicines to fowls, thrusting it into the mouth and throat past the windpipe and inject it down and you thus avoid all danger of strangulation. Before practicing this it was common for me, even in the treatment of mild forms of disease, to have them die right in my arms while giving the medicine to them. It goes to the lungs instead of the crop and later to the digestion tract and, therefore, is death on the spot.

Take one pint of warm water, add one five-grain pill permanganate of potassium, one two-grain powder of sulphate of quinin, ten drops of acornite, mix thoroughly. Wash out the head and mouth of the fowl, injecting it well down into the throat and air passage, giving a teaspoonful every hour, but in extreme cases double the size of dose. In fact, judgment should be used as to the severity of the case, bearing in mind always that it takes poison to kill poison. As signs of recovery are noticeable lessen not only the size of the dose, but also give it at longer intervals.

When treating fowls when their eyes have become closed so they cannot eat it is expedient to make small pellets of easily digested, cooked food, such as bread crumbs with hard boiled egg added, but feed sparingly until the fowls show considerable inclination to exercise when their feed can be gradually changed and increased to their original diet. Where large swellings form on side of the face (or more properly called cheek) lance with a sharp knife, removing all pus, after which thoroughly syringe out with a 2 per cent solution of carbolic acid, keeping it open and well syringed until all signs of pus forming has disappeared, then anoint with carbolated vaseline until the wound is entirely healed. Be sure to bury deep, or burn, all dead birds, and keep a watchful eye on any cases that may appear. This probably just as effective as the remedies used in the drinking water. It involves a greater amount of labor which at my place I consider quite an item.

C. E. Matteson.

According to careful experiments,

the cost of keeping a cow a year with the best of feed and shelter, labor and interest on the investment included, all told, amounts to \$55. If, then, the cow can not be made to produce more than \$55, she is not worth keeping. A good cow ought to produce at least \$110, or double the cost of her keep.

FIVE BIG PAPERS, \$1.25.

The Iowa Homestead; Twice-a-Week Republic, of St. Louis, the oldest, biggest and best semi-weekly newspaper in the Southwest; Farm Progress, the biggest semi-monthly farm paper printed; The Household, a big monthly story paper, and Needlecraft, a monthly woman's magazine, sent to any address a full year for only \$1.25. The subscription price of all these papers, if taken separately, would be \$2.20. Subscribe for this big combination and get all the reading matter you will want for this coming year. Send orders to the St. Louis Republic, St. Louis, Mo.

THE SHOEMAKER POULTRY BOOK.

Among those who have, by right of merit, assumed prominent places as poultry breeders on a large scale perhaps none are entitled to greater recognition than Mr. C. C. Shoemaker, of Freeport, Ill. More than a score of years ago Mr. Shoemaker began poultry raising on a small scale on his own farm. Having an aptness in the attention of details so necessary in poultry raising, and with special faculties with reference to the selection of birds having good points, his business grew to be the most extensive of its kind in the United States. Today Mr. Shoemaker stands as a poultry authority having few equals. It will, therefore, be of interest to our readers to know that Mr. Shoemaker has issued a splendid new poultry book for 1910. This book gives careful attention to all of the necessary details of the poultry yard from the very start up to marketing time. It is written from the view point of the man who does the work in the yards and is, therefore, practical. It is beautifully printed with color plates of the various breeds of fowls and taken altogether is so valuable that it should be on the table of every farm home. This book is sold at the very low price of fifteen cents which barely pays the cost of postage. It may be had by forwarding that amount to Mr. C. C. Shoemaker, Box 679, Freeport, Ill. See advertisement on page 28.

POINTERS.

—Mrs. J. S. Benage, of Hazel Hun, Minn., is offering good young White Holland turkeys for sale in her advertisement appearing on page 30.

—Mr. George Taylor, of Barnes City, Iowa, has an advertisement on page 30 of The Homestead in which he is quoting prices on Brahma cockerels.

—Mrs. A. Kitson, of Audubon, Iowa, is prepared to furnish Homestead readers with Mammoth Bronze turkeys as per advertisement on page 30.

—A few choicely-bred Barred Plymouth Rock cockerels are offered for sale by Mrs. S. C. Jennings, of Weldon, Iowa, in her advertisement on page 30.

—Mr. Donald Gregory, of Keota, Iowa, has a limited lot of Single Comb White Leghorn cockerels which he is offering for sale in his advertisement on page 30.

—Mrs. E. C. McCarthy, of Elliott, Iowa, has a few scored Rose Comb Rhode Island Red cockerels which she is offering for sale in her advertisement on page 30.

—Mr. O. Schmitz, of McCook, Neb., has some extra Single Comb Brown Leghorn cockerels on which he is quoting prices in his advertisement that appears on page 30.

—Mr. F. W. Hann, of Harlan, Iowa, has Barred Plymouth Rocks for sale scoring from 88 to 92 points. His prices will be made right with a view for quick sales. See advertisement on page 30.

—Mr. George M. Grimstead, of Mitchell, Iowa, has prize-winning stock for sale from his Mammoth Bronze turkey and Pekin duck flocks. His advertisement appears on page 30 of The Homestead.

—Mrs. Floy Collins, of Viola, Iowa, is closing out her Partridge Cochins chickens and, in order to do so, she is offering them at bargain prices when their quality is considered. Some of them are direct from Mr. Geo. Mitchell's yard, and she is sure Home-

Get Johnson's New Book Right Away — Best Ever — Send Your Name Today



BE SURE to raise chickens this year—and I ask you, old friend or new friend, to send me your name early for my new 1910 Poultry Book. It's better than ever—every page a poultry sermon—over 200 pages and over 1,200 photographic pictures showing you—

Old Trusty Incubators

I pay the freight to you east of the Rockies and "Old Trusty" does the rest. Get my 1910 poultry book, by a man who knows how to raise chickens—from 15 years' experience.

My "Old Trusty" is simple and sure—California Redwood—Asbestos-and-Metal-Encased.

Every part made for use—nothing superfluous. I make quick shipments. Don't pay two prices. Buy direct from me no matter where you live.

75 per cent better hatches guaranteed. "Old Trusty" runs itself and pays for itself most quickly of all.

"Simple and sure" is what over 150,000 beginners and experienced poultry raisers have proved.

10-Year Guarantee
40, 60 or 90 Days' Free Trial
75% Better Hatches Guaranteed

Consider the cost to you this year. Investigate my 1910 "Old Trusty" Incubator before you buy. My price will be lower to you—something below \$10, anywhere you live—freight prepaid east of the Rockies. Send your name for my book today. I'll answer quick.

M. M. Johnson, Incubator Man
Clay Center, Neb.

stead readers cannot get as fine birds for the money anywhere else. Her advertisement appears on page 30.

—Mr. Orrin Bierma, of Altoona, Iowa, has some large, vigorous Mammoth Bronze turkey toms and hens which he is offering for sale at reasonable prices to Homestead readers.

—Mr. E. B. Conable, of Independence, Iowa, has Single Comb Buff and Black Orpington cockerels for sale as per his advertisement appearing on page 30. He also has pullets and will have eggs for sale in season.

—Mr. R. R. Stewart, of Charles City, Iowa, breeds Rose Comb Brown Leghorns exclusively. He is offering stock from prize-winning and high-scoring ancestors for sale in his advertisement on page 30 of The Homestead.

—Mrs. T. A. Gough, of Bristow, Iowa, has 100 Rose Comb Rhode Island Red cockerels on which she is quoting very reasonable prices in her advertisement on page 30. She will also be able to supply eggs from this popular breed in season.

—Mr. J. A. Albertson, of Portsmouth, Iowa, whose advertisement appears on page 30 of The Homestead, in furnishing copy for same, writes: "My Rose Comb Brown Leghorns are of the very best breeding, good color, fine combs. Am offering them very reasonable, considering quality."

—Mrs. D. C. Molsberry, of Plymouth, Iowa, in furnishing copy for her advertisement appearing on page 30, writes: "My turkeys are very fine, with heavy bone and fine markings. I am all sold out of Black Cochins, but have some very choice Silver Laced Wyandotte cockerels."

—The advertisement of Mr. J. O. Walton, of Belle Plaine, Iowa, offering several different varieties of land and water fowl for sale will be found on page 30 of The Homestead. Mr. Walton is offering prize-winning stock and is desirous of sending description and price list to all those who will enclose stamp for same.

—Large, fine, standard-bred Barred Plymouth Rock cockerels are offered for sale by Mr. A. W. Nichols, of Indianola, Iowa, in his advertisement appearing on page 30 of The Homestead. He wishes those of our readers desiring first-class stock to write him at once, as his advertisement will not appear again. He guarantees satisfaction.

—In furnishing copy for her advertisement found on page 30 of The Homestead, Mrs. Harry Davidson, of Adrian, Mo., writes: "We have raised Mammoth Bronze turkeys fifteen years, buying stock from the most noted breeders. Our aim has always been to have size, markings and healthy stock. We have shipped in the past few years to many different states and we have received many letters praising our fine turkeys. We shipped several young toms last year that weighed thirty-five pounds. We are now in a position to furnish Mammoth Bronze toms and hens that are as fine as we ever raised. It would be well for those in need to write at once, as we usually close out very quickly and always fill orders in turn as they come. Those sending their orders in early get the pick of the flock. Write us just what is wanted and we will do our best. We have never had a dissatis-

1030 Chicks From 1047 Eggs

IN three hatches. That's what G. W. Ormsby, of Pierpont, Ohio, did with a Standard Cyphers Incubator. He don't claim to be an expert—just a practical, money-making chicken-raiser. But he insists on the best hatcher.

Cyphers Incubators

are used by more Government Experiment Stations, more leading Agricultural Colleges, more well-known Fanciers and Practical Poultrymen than all other makes combined.

Hot-air heat—not tank-troubles—a genuine non-moisture incubator. Self-ventilating. Self-regulating. You can get Cyphers Patented features of superiority in no other machine. Cyphers Incubators and Brooders are guaranteed to you—you have 90 days—4 hatches to prove their superiority.

Write today for our big, handsome Catalog for 1910, describing Cyphers Incubators, Brooders and Poultry Supplies.

Address Nearest City:
CYPHERS INCUBATOR CO., Department 42,
Buffalo, N. Y.; New York City, N. Y.; Chicago, Ill.;
Boston, Mass.; Kansas City, Mo.; Oakland, Cal.



STANDARD
CYPHERS INCUBATOR
Fire Proof—Insurable

A Town Lot is Big Enough

Poultry raising possibilities were never better. Profitable on small or large scale. Geo. H. Lee knows. He started in a small way. He now has 3000 laying hens. He invented the Mandy Lee incubator, the Mandy Lee Brooder, and all the appliances he could not buy. He experimented with his own money, not customers'. The



Mandy Lee Incubator

was offered to the poultry public when perfected, not before. Inexperienced can start with Lee's twenty years' successful work. Lee's "Chicken" Talk, a book written by Mr. Lee himself, and his Incubator and Brooder catalogue are ready to mail. Both free. Send for them to-day. There is no poultryman's need omitted from this catalog. It is a complete showing of the things that made Mr. Lee a successful poultry raiser.

GEO. H. LEE CO., 1173 Harney St., Omaha, Neb.



MODEL AGAIN No 7740Y

Model Again, owned by Mr. W. R. Benne thum, Madrid, Iowa, one of the prize-winning sons of Golden Model. Many of the gilts in the offering to be sold on Tuesday, February 1st, are sired by this great boar. See advertisement on page 49 of this issue.

fied customer in all the years we have shipped poultry. Long live The Homestead.

—Mrs. C. A. Robinson, of Griswold, Iowa, in furnishing copy for her advertisement on this page, writes: "The White Wyandotte cockerels I am offering for sale are fine, large, well-developed birds of April hatch. They are good in all points and will make excellent breeders. I will sell them cheap to make room for breeding pens."

—To Homestead readers who wish to purchase Light Brahma cockerels we desire to call attention to the advertisement of Mrs. Nellie Taylor, of Barnes City, Iowa, that appears on this page. Mrs. Taylor has seventy-five large-boned, well-shaped cockerels on which she is making very reasonable prices. She breeds Light Brahmas exclusively and will guarantee satisfaction.

—Mr. Sterling Martin, of Melrose, Iowa, in furnishing copy for his advertisement that appears on this page, writes: "The turkeys I am offering are the best I have ever raised. They are sired by the first-prize tom in the Cedar Rapids, Iowa, January, 1909, show, and are from hens scoring about 95 points. My White Plymouth Rock cockerels are good, big-boned fellows."

—Mr. S. E. Dyas, of Bellevue, Iowa, writes: "My White Wyandotte cockerels are up to weight and over. They are in just good breeding flesh with heavy yellow legs, fine shape and style, good in all points, and I have them either scored or unscored as desired. I am proud of my Pekin ducks; the drakes score 95 to 98 and the hens are just as good. They are also, up in weight and will be priced reasonable." See this page.

—Messrs. Hennessy Bros., of Strawberry Point, Iowa, have White Plymouth Rock and Indian Game cockerels for sale, as stated in their advertisement on this page. They write: "The birds we have for sale are the best we have ever offered and we have bred them for fifteen years. They have been culled close and nothing but good birds will be shipped. At the Iowa State Show, held in Des Moines, we won four first and second prizes."

—Mr. George E. McGrew's advertisement of Mammoth Bronze turkeys will be found on this page. Mr. McGrew advises us that he has this year some good birds for the season's trade. His turkeys won all of the first prizes at the state poultry show at Fairfield early in January. His prize yearling and a large two-year-old tom are both offered for sale. For descriptions and prices write to Mr. Geo. E. McGrew, R. F. D. 1, Selma, Iowa.

—Mr. Albert A. Foster, of Russell, Iowa, whose advertisement of Barred Plymouth Rocks will be found on this page of The Homestead, writes: "I have some of the best birds I ever produced, especially from my first cockerels yard which is headed by a cockerel direct from Bradley's yards. I am informed that his sire and grandsire were the two highest-priced birds ever sold by them. This cockerel has been pronounced by reliable judges one of the best and deepest-barred birds ever in the West. The demand for this kind is heavy and they go like hot cakes. First come, first served. Birds will be sold according to their merits."

—Mr. Grant Gallaher, of Spencer, Iowa, reports the following winnings at the Northern Iowa Poultry Show for his Mammoth Bronze turkeys and Barred Plymouth Rocks, an advertisement of which will be found on this page: On Bronze turkeys, Mr. J. J. Elliott, judge, he won first; on cockerel, first, second and third; on hen, first, second, third and fifth; on pullet, first, second, third, fourth and fifth; on young tom, first and second on pen. On Barred Plymouth Rocks he won second, third, fourth and fifth on cockerel; first, third and fourth on pullet; first, second, third and fourth on hen; first and second on pen, and silver cup for best ten in class.

DOGS.

COLLIE PUPPIES From our imported studs and bitches. Write for our catalog and photos, giving full description. Hundreds of testimonials. Our Collies work; pairs no akin furnished; prices to suit. We ship to all parts of the United States and guarantee safe delivery. **UNDERHILL KENNELS, Knoxville, Iowa.**

SCOTCH COLLIE PUPPIES For sale. \$5 to \$8. Very best breeding; will make fine workers. Write us your wants. **T. A. Stevenson, Shannon City, Iowa.**

Scotch Collie Puppies sired by Rockdale Hall. Write for description and prices to Miss Victoria Saunders, Manilla, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS, Cumming, Iowa.**

TURKEYS.

MAMMOTH Bronze turkeys, from prize-winning stock at the State Poultry Show of 1909 at Fairfield, Ia. Choice birds at reasonable prices. 1st prize yearling tom for sale. **Geo. E. McGrew, R. 1, Selma, Ia.**

White Holland Turkeys Best of breeding stock and choice young birds for sale. **Mrs. J. H. Richardson - Bristow, Iowa.**

50 White Holland Turkey toms, extra choice birds. Prices reasonable. **Address Mrs. H. A. Sexsmith, Greenfield, Ia.**

White Holland Turkeys Good young stock for sale. Write **Mrs. J. S. Benage, R. 1, Hazel Run, Minn.**

For Sale M. B. turkeys. Have bred them fifteen years; size, markings and a square deal our motto. **Mrs. Harry Davidson, Adrian, Mo.**

Mammoth Bronze Turkeys Large, heavy-boned birds. **Mrs. A. Kitson, Route 2, Audubon, Iowa.**

HOUDANS.

HOUDANS Hens, pullets, cocks and cockerels; forty quality birds for sale cheap; single, trio or pens. Must close out stock. **W. T. Wilkinson, Box 15, E. Des Moines, Ia.**

DUCKS.

SALE OF PEKIN DUCKS Large size, \$1.75 each or 3 for \$5. **John M. Hall - Blairsburg, Iowa.**

RHODE ISLAND REDS.

S. C. Rhode Island Reds
TOMPKINS STRAIN
Write for descriptive circular.
P. H. Thiel, Renwick, Humboldt Co., Iowa.

SEND STAMP FOR PRICES OF EGGS
FROM special matings and scored Single Comb Rhode Island Reds, from one of the best strains in the "Red" kingdom. Imported Hartz Mountain canaries. A special offer to make.
Mrs. F. W. McIntyre, R. 5, Red Oak, Iowa.

RHODE ISLAND REDS
Rose Comb Rhode Island Red cockerels for sale. Sire scored 92½ points.
WM. SEXSMITH, ORIENT, IOWA.

S. C. Rhode Island Reds Choice utility cks. and pullets at very reasonable prices, as I must have room for breeding pens. **M. E. Birchard, Hazleton, Iowa.**

R. C. R. I. Reds Cherry Red strain, scored and unscored. Cockerels for sale. Prices right. **Harry C. Blake, Maquoketa, Ia.**

S. C. Rhode Island Reds A choice lot of scored birds for sale; eggs in season. **Lee Nichols, R. 4, Woodward, Ia.**

Rose Comb Rhode Island Reds. A choice lot of cockerels scored by Todd, for sale. **D. E. Witmer - Polk City, Iowa.**

Single Comb Reds Scored cockerels, prices right as to quality; unscored \$1 each. **Frank Chalupa, Pleasant Plain, Iowa.**

S. C. R. I. Red Cockerels For Sale \$2 to \$5. **Mrs. H. L. Alsop, Sylvia, Iowa.**

S. C. R. I. Red cockerels; fine birds, from \$2 up to \$5. A few R. C. R. I. Red cockerels at a bargain. **Mrs. Sophia Rader, Laurel, Iowa.**

A Few Choice Rose Comb R. I. Red cockerels. Orders for eggs booked now. Best of stock. **Address A. T. Sanders, Perry, Iowa.**

ROSE COMB Rhode Island Reds—A few scored cockerels for sale. Prices right; eggs in season. **Mrs. E. C. McCarthy, Elliott, Iowa.**

100 R. C. Rhode Island Red cockerels, \$1 each. Eggs in season. **Address Mrs. T. A. Gough - Bristow, Iowa.**

S. C. R. I. REDS CHOICE Cockerels for sale at right prices. **C. A. Kenworthy, 1610 S. 9th St., Des Moines, Ia.**

WYANDOTTES.

WHITE WYANDOTTES
CKLS., \$1.50 each, to close out. Have decided to sell 30 more nice pullets at \$1.25 each. Order quick. **Roselawn Poultry Farm, R. 2, Keota, Iowa.**

I Have the Best White Wyandottes I ever raised, now ready for sale. \$10 trio a specialty. Quality stock. **J. M. Erickson, Slater, Iowa.**

WYANDOTTES
White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. **A. L. Anderson, Indianola, Ia.**

Silver Laced Wyandottes Exclusively Scored or unscored. **Dr. D. C. Garner, Mingo, Ia.**

SILVER LACED WYANDOTTES Hens, roosters and pullets for sale cheap in lots. **Mrs. J. W. Lowe, Clarksville, Iowa.**

White Wyandotte Cockerels and cocks, scored and unscored, \$1.25 up. Write your wants. **RINNEBROS., NOBLE, IOWA.**

30 White Wyandotte Hens--30 Pullets \$1 each. **Mrs. L. M. Estes, Route 2, Audubon, Iowa.**

Buff Wyandotte Cockerels, bred from show yard strains, for sale. Also a few pullets. **Geo. M. Deyoe, Mason City, Ia.**

Silver Laced Wyandotte cockerels for sale; Larger and better than ever. Write today. **S. R. Young, Greenville, Iowa.**

W. Wyandotte Cockerels; fine, large, blocky birds, Dustin's strain; closing out cheap. **Mrs. C. A. Robinson, Griswold, Iowa.**

BRAHMAS.

Light Brahma Cockerels
ONE to five dollars each. I have a fine lot of them; no pullets for sale. Eggs in season. **Address FRANK P. HEALY, BEDFORD, IOWA.**

OTTUMWA **POULTRY YARDS;** Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. **R. T. Cameron, Ottumwa, Ia**

BRAHMA COCKERELS AT \$1.25 UP
GEO. TAYLOR, BARNES CITY, IOWA.

LIGHT Brahmas exclusively. 75 large-boned, well-shaped Lt. Brahma cks. at \$1.50 each; satisfaction guaranteed. **Mrs. Nellie Taylor, Box 53, Barnes City, Ia.**

ORPINGTONS.

S. C. Buff and Black Orpingtons, best strains. Cockerels, \$2 and \$3 each. Pullets, \$1.50 and \$2. Eggs, \$2 and \$3 per 15; utility, \$6.50 per hundred. **E. B. Conable, Box A, Independence, Ia.**

S. C. Buff Orpingtons, both sexes; choice stock from \$1 up. Also a few good cocks. **Address Nettie Crane, Route 1, Blencoe, Iowa.**

For Sale Twelve Single Comb Buff Orpington cockerels at \$1.50 and \$2 each. **Address Mrs. Viola Clarke - Kirkman, Iowa.**

LANGSHANS.

Phillips' Strain Langshans Black Langshan cockerels as good as ever, but not so many of them. Birds that will score high, and from a strain that has always produced blue ribbon winners. Prices low, considering quality. **C. W. PHILLIPS, NEW SHARON, IOWA.**

Black Langshans of both sexes, for sale. Cockerels—single bird, \$2, or 3 for \$5. Hens or pullets from \$1 to \$2 each. **Address Mrs. Sarah F. McKeen, Sac City, Iowa.**

PLYMOUTH ROCKS.

Barred Rocks for Sale
FROM \$2 to \$5 each, as to age and number ordered. Nothing but strictly choice birds will be shipped. **P. M. PHILLIPS, CENTERVILLE, IOWA.**

BARRED ROCKS
A CHOICE bunch of cockerels this year, sired by the best blood in the country. We can furnish you first-class breeders to improve your flock, or exhibition birds to head choice yards. Prices reasonable; write us your wants. **Mason C. Ogg, Monroe, Ia.**

BARRED ROCKS
If you are in need of some strong breeders or choice exhibition cockerels (the barred to the skin kind), I can supply your wants. Write for prices and circular giving full description and breeding of same. **Albert A. Foster, Route 2, Russell, Iowa.**

Quality Strain Barred Rocks Have been line bred for ten years from foremost prize-winners in America. Bennett's famous flock has been added as per "Notice of Sale" elsewhere. Cocks, hens, cockerels and pullets, both matings for sale at right prices. **C. C. Drake & Son, Drawer Y, La Harpe, Illinois.**

Barred Rocks
Scoring from 88 to 92; prices right for quick sales. **F. W. Hann, Route 3, Harlan, Iowa.**

400 B. P. Rocks For Sale. Cocks, cockerels, hens and pullets. Prize-winners, egg producers; large, vigorous, nicely marked. None better. 15 years a breeder. Matched exhibition and breeding pens a specialty. Prices reasonable. Bargains for quick buyers. **C. H. Tyrrell, Sioux Rapids, Iowa.**

BARRED PLYMOUTH ROCK COCKERELS
LARGE, fine, Standard bred; none better bred; \$2.50 to \$10. Satisfaction guaranteed. Write at once if you need them. This will not appear again. **A. W. Nichols, 603 N. D. St., Indianapolis, Ia.**

GUTH'S WHITE ROCKS
Winners at the Iowa State Show. Choice cockerels at \$2 each. **Chas. Guth, E. 18th St. and Logan Ave., Des Moines, Ia.**

BARRED ROCKS
75 Large-boned, nicely-barred cockerels, from prize-winning stock, for sale. 15 years a breeder. **Mrs. T. C. Churchill, R. 1, Monroe, Iowa.**

White Rock Cockerels, \$2 to \$5 Each
Pullets, \$1 to \$3. Mann's green bone cutter and 50-egg incubator cheap. **F. H. Eckert, Charter Oak, Ia.**

Barred Plymouth Rocks
Pekin ducks, White Holland turkeys; extra large, and first prize winners. **Fred Post, Moulton, Iowa.**

WHITE PLYMOUTH ROCK COCKERELS
Large boned, pure white, scoring 92 to 94. Prices reasonable. **Mrs. A. F. Peterson, R. 6, Red Oak, Ia.**

Buff and Barred Rocks 85 large, fine cockerels, extra heavy-boned, scoring 88 to 94½; farm raised. **E. C. Rice, Gray, Iowa.**

FOR sale—A few choice bred Barred Rock cockerels at \$1.25 and \$2 according to weight. **Mrs. S. C. Jennings, R. F. D. No. 2, Weldon, Iowa.**

SCORED M. B. turkeys; toms, \$5 up; pullets, \$3 up. From high-scoring stock. **White Rock cockerels. Sterling Martin, Melrose, Iowa.**

LEGHORNS.

Rose Comb Brown LEGHORNS
COCKERELS for sale at the Pike Timber Stock Farm as follows: Single bird \$2, two or more \$1.50 each, six for \$1 each. **Address T. A. DAVENPORT - BELMOND, IOWA.**

There Is Money In Eggs
S. C. W. Leghorns. Get the laying kind. Hen flock averaged over 15 dozen eggs each, 1909. Cockerels, all prices. Write for prices and show record. **Mary Culver, Route 1, King City, Missouri.**

ROSE COMB BROWN LEGHORNS
EXCLUSIVELY. From prize-winning and high-scoring stock. Cockerels or hens, \$1.50 each, 6 for \$7.50, \$15 per dozen. Eggs, 100, \$4; 200, \$7.50. 12 years with this breed. **R. R. STEWART, R. 2, Charles City, Iowa.**

For Sale—S. C. Brown Leghorn Ckls.
Extra fine, \$1.25; others as good, \$1. Got over 50 good ones left. **Address O. Schmitz, McCook, Nebraska.**

PURE-BRED Rose Comb Brown Leghorn cks \$1.50 each or five or more at \$1 each. **Carey R. Jones, Route 6, Eldora, Iowa.**

FEW choice S. C. W. Leghorn cks., scored and unscored. Unscored, \$1 each; scored, \$2 up. Wyck-off strain; eggs. **Mrs. W. McIntyre, Red Oak, Iowa.**

For Sale R. C. B. Leghorn cockerels; single birds, \$1.50 each; six for \$5. **Write F. Bowman, Route 6, Eldora, Iowa.**

ROSE COMB Brown Leghorn cockerels for sale, high-scoring, \$1.25 each. After January 15, 1910, \$1.50. **Address Eva D. Tutt, Altus, Iowa.**

FIFTY ROSE COMB BROWN LEGHORN COCKERELS \$1.25 each; very choice. **J. A. Albertus, Portsmouth, Ia.**

FOR SALE Eight Single Comb White Leghorn cockerels at \$1 each; \$7.50 for the bunch. **Donald Gregory, Route 2, Keota, Iowa.**

COCHINS.

Buff Cochins Exclusively 50 large-framed, sharp, evenly-colored, well-feathered cockerels at \$2 to \$5. **Write W. W. Vaughn - Marion, Iowa.**

PARTRIDGE Cochins, 12 fine hens at \$2.50 singly, \$7 per trio or \$25 per dozen; one cock, \$3; 2 cockerels, \$3 each. **Mrs. Floy Collins, Viola, Iowa.**

MISCELLANEOUS.

White H. Turkeys Barred, white; P. Rocks, S. C. W. Leghorns, Pekin and Indian R. ducks; Toulouse geese. Stock and eggs for sale. We won 110 prizes and four silver cups the past year. **W. M. Shaw & Co., Monroe, Iowa.**

White P. Rocks and Indian Games. Four first, 2 second prizes Iowa State Show. Ckls. \$1 to \$3. **Hennessy Bros., Strawberry Point, Iowa.**

MISCELLANEOUS.

COCKERELS AND PULLETS
FINE, large, early hatched breeders; farm range stock; Barred P. Rock, White P. Rock, Buff P. Rock and Single Comb Brown Leghorn. Circular free if you mention this paper. **C. E. MATTESON, Pewaukee, Wisconsin.**

400 B. PLYMOUTH ROCKS FOR SALE
LARGE boned, nicely marked. A few fine M. B. turkeys; sire a first prize-winner in show in 5 showings, including Central Iowa Show, Dec. 3-16, 1909; Russell judge; we won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths. Nothing but first-class stock shipped; prices reasonable. **J. W. Wagner, Monroe, Ia.**

EVERGREEN LAWN FARM
M. HUMMEL, Proprietor, Monroe, Iowa.
HAS for sale 225 Barred P. Rocks and M. B. turkeys with large bone and deep barring, bred from high-scoring stock. We won 40 prizes. Write your wants; we can please you with quality and price. Nothing but first-class stock shipped.

MAMMOTH BRONZE TURKEYS AND PEKIN DUCKS
From Prize-Winning Stock for Sale. **George M. Grinstead, Mitchellville, Iowa.**

IOWA King strain Mammoth Bronze turkeys; grand in size, shape, bone and golden bronze. Young toms weigh 20 to 30 lbs.; pullets above standard wt.; sired by prize winners of extra large size, with trios and pens not akin. 200 B. Rock cks., 8 to 11 lbs.; big, bushy fellows; grand in shape, markings. Send for prices and show record. **G. Gallaher, Spencer, Ia.**

GEESE Mammoth Toulouse, imported or American strains. Ganders, \$2.50; geese, \$2; gander and two geese, not related, for \$6. **White Wyandotte cockerels, scored and unscored, \$1.50 up; satisfaction guaranteed. G. W. Livingston, Monroe, Ia.**

FOR SALE—Mammoth Toulouse geese, Barred Plymouth cockerels, White Cochins Bantams, Pearl Guineas. Enclose stamp for description and price list. Breeding stock prize winners. Address at once. **J. O. Walton, Belle Plaine, Iowa.**

BUFF COCHIN B. P. Rock cockerels, and White Holland toms, sired by a 35 lb. tom, and Pekin ducks. For good birds at a low price address **Mrs. J. E. Baxter, Walnut Grove, Minn.**

Barred Rock Cockerels, \$1 to \$1.50, according to weight. **S. C. Brown Leghorn cockerels and pullets, \$1 each. Scored males of both breeds, \$2. Geo. F. Blake, Maquoketa, Iowa.**

48 Breeds chickens, ducks, geese, turkeys. Fowls, eggs, and incubators at low prices. America's greatest poultry farm. Send 4c for fine 80-page 16th Annual Poultry Book. **R. F. Neuber, Box 807, Mankato, Minn.**

Full-Blood R. C. Rhode Island Red cockerels and S. C. White Leghorns \$2.50 each. English Ring Neck pheasants, two hens and a cock, \$6. Am closing out. **B. F. Cook, Council Bluffs, Iowa.**

For Sale—MAMMOTH BRONZE TURKEYS
LARGE, heavy-boned birds, sired by tom weighing 45 pounds and scoring 96¼. Also a few Pekin ducks. **Mrs. J. C. Cannon, Crawfordsville, Iowa.**

ROUEN DUCKS For sale. Show birds or good breeding stock. Good B. P. Rock cockerels; large-boned, nicely-barred. Prices reasonable. **J. H. Howarth, Moulton, Iowa.**

50 BREEDS Fine, pure-bred Chickens, Ducks, Geese and Turkeys. Send 4 cents for large new Catalog. **W. A. WEBER, Box 906 Mankato, Minn.**

150 Bradley and Thompson B. P. Rocks
Ckls. and pullets; also choice M. B. turkey toms, Mo. King strain. **H. Schlatter & Sons, Lawler, Ia.**

Mammoth Bronze Turkeys
and Silver Laced Wyandotte cockerels. **Mrs. D. C. MOLSBERY, Plymouth, Iowa.**

50 Single Comb Brown Leghorn cockerels, \$1 each; good ones. Also B. P. R. cockerels, \$1 each. **C. A. Rasmussen, Harlan, Iowa.**

Barred Plymouth Rocks and Golden Wyandottes; 200 for sale. Get your order in early. **J. L. Todd, Route 3, Des Moines, Iowa.**

WHITE Wyandottes; stay white kind. Ckls. and pullets. Also a few B. P. Rock cks., Eclipse strain. Prices right. **N. Woltersdorf, Van Horn, Ia.**

ROSE COMB Rhode Island Red, W. Orpington and S. L. Wyandotte cks.; heavy-boned and extra nice large birds. **P. F. Smith, Montezuma, Ia.**

Choice W. Wyandottes and Mammoth Pekin ducks in ducks; McLaughlin strain. **E. S. DYAS, BELLEVUE, IOWA.**

Muscovy Ducks \$3 a pair; Rouen ducks, \$2.50 a pair. **White Wyandotte cks. \$1.25 each. Mrs. T. W. Glass, R. 5, Sac City, Iowa.**

BARGAINS now in all leading varieties of Rhode Island Reds, Orpingtons, Leghorns, Wyandottes and Rocks. **Wm. Koell & Co., Box M, Hampton, Ia.**

BLACK and W. Langshans, Buff Orp., R. C. R. I. Reds, Lt. Brahmas, M. B. turkeys, scored or unscored. Prices right. **Mrs. S. E. Newell, R. 6, Audubon, Ia.**

FOR SALE—Some extra fine pure-bred Rose Comb Brown Leghorn and W. Wyandotte cockerels. Write for prices. **LeRoy Cotteau, Alta, Iowa.**

WHITE P. ROCK chickens, White Holland turkeys, Pekin ducks and Embden geese. Prices right. **S. M. Compton, R. 3, Newton, Iowa.**

Choice Silver Laced Wyandottes and Pekin ducks; scored and unscored. Prices right. **Mrs. F. R. McLaughlin, Manning, Ia.**

Barred Plymouth Rock, White Wyandotte, Holland cockerels, \$1.50, \$2, \$2.50 each. Hens also. **W. C. Frazier, Atlantic, Cass County, Iowa.**

PRIZE-WINNING Pekin ducks for sale; never have been beaten where shown. Also S. L. W. cks. **Mrs. Edith Eygabroad, R. 1, Grundy Center, Ia.**

R. C. Rhode Island Red Leghorn cockerels, \$1.25 each. **T. E. DIEHL, BERWICK, IOWA.**

FOX Terriers, king of the rat terriers. Puppies and grown stock for sale. Also a few choice S. C. Red cockerels. **Sabot Kennel's, Pella, Iowa.**

WANTED FOR CASH Embden geese, Pekin ducks, mullet goats; pea fowl. **Stamp. Fairacres Farm, Juliet, Illinois.**

Buff Rock Hens \$1 or \$10 per dozen. Rock and Partridge Wyandotte cockerels, \$1.50 and \$2. **Charlotte A. Cole, Fairport, Ia.**

Indian Runner Ducks, Barred Rocks and Single Comb R. I. Reds. A few scored cocks. **F. L. Reinhard & Son, Ottumwa, Iowa.**

Value of Sweet Clover

There has been much doubt and perhaps much worry on the part of the many farmers who have noted the rapid growth and spread of sweet clover on roadsides and waste land. To some, it is a dangerous weed which should be exterminated; to others it is a highly valuable plant, not only as a forage crop, but as a great soil renovator.

Sweet clover is a biennial legume. There are two varieties,—the yellow flowered variety, the more common white flowered variety. The leaf, stem and habit of growth resemble alfalfa very closely while the fruit and blossoms have characteristics of red clover. The roots are large, long, thick and fleshy, possessing great ability to extract plant food from the most resistant soils. They bear nodules and nourish the famous nitrogen-secreting bacteria, by which the soil is made fertile and productive.

Although sweet clover is not a common forage crop it has considerable value as such. Chemical analysis of the plant indicates a high feeding value. The plant is rich in protein, forming in itself a well-balanced ration. The Iowa station recently carried on an experiment in which it was found that the amount of digestible protein in sweet clover was one and one-half times that in alfalfa. But, with all its good feeding qualities, it lacks one very important requisite and that is palatability. Cattle will not, as a rule, eat it. It is claimed by some that, if stock are once induced to feed on sweet clover they develop a natural craving for it and prefer it to other forage crops. But this is not generally true. Horses sometimes relish the

young plant, especially when it is cut early and is well cured. The unpalatability of sweet clover is due to the presence of a bitter drug called cumarin. It has been found that the amount of cumarin in the plant varies widely, the sweet clover of the North Central states containing much less and having a greater palatability than the strains growing in the southern and eastern states. In view of this fact work is being done by the bureau of plant industry, department of agriculture, under the supervision of Professor Piper to breed up a bitterless strain. If this is accomplished we will have a new plant of exceedingly great forage value.

The greatest value of sweet clover is its ability to renovate old worn-out soils and make them fertile and productive. First of all its hardness, its ability to adapt itself to any kind of a soil, and its rank growth make it extremely valuable as a green manuring crop. Professor Stone, of the Cornell station, estimates twenty-eight tons of root growth per acre. This gives an idea of its ability to increase the humus in the soil which is so essential to the maintenance of fertility. The nitrogen content of the soil is increased by the nitrogen-fixing bacteria. On account of the extensive root system and numerous large root nodules more nitrogen is fixed by sweet clover than by any other legume. Many examples of its soil-renovating power can be noted where it once grew in waste places and was followed in natural rotation by a green sward of grass. At the Ohio station it was found that wheat grown on a soil where sweet clover once grew yielded 8.3 bushels more than that grown on soil where sweet clover had not been grown.

The Illinois station has shown that the bacteria in the root tubercles of sweet clover will produce root tubercles on alfalfa. As a result of this, soils on which sweet clover has grown are used for inoculation purposes in securing stands of alfalfa. It is claimed that the occurrence of sweet clover on a soil is an indication of the possibility of growing alfalfa on that soil.

The overmastering growth along roadsides while feared by some as a dire evil, has its benefits in not only fertilizing these places, but also in crowding out and preventing the growth of noxious weeds which might otherwise grow and spread through our fields. In hilly countries these growths are a great factor in the prevention of washing, as the deep roots make excellent soil binders.

The flowers offer an abundant source of honey and the beekeeper is often accused of planting sweet clover seeds along the roadside.

Sweet clover can hardly be called a weed. It does not grow in our pastures nor in our cultivated fields. It grows only in those places where, due to its hardness, it is able to crowd out other plants in their natural struggle for existence. If success attends the experimental work being done on the plant it will not only be our soil renovator, but one of our best forage crops.—(L. Graber in Student Farmer.)

Detecting Tuberculosis.

Three methods are in common use for the detection of tuberculosis; physical examination, post-mortem examination, and the tuberculin test.

Only advanced cases can be recognized by physical examination and this method alone has never enabled any one to render an infected herd tuberculosis free. We never hope to be able to do so because it is absolutely impossible to diagnose the disease in its incipient stage by a physical examination. That the veterinarian be able to recognize tuberculosis in its advanced stages, however, is absolutely essential, inasmuch as the tuberculin test frequently fails to give a reaction at this stage. Loss of flesh and staring coat do not always indicate tuberculosis, as other causes may lead to the same condition. A cough, while frequently present when the lungs contain tuberculosis lesions, is not always indicative of the disease because quite frequently a large number of cows in a herd known to be free from tuberculosis have a chronic cough. This condition is sometimes seen in poorly

The Climax of Manure-Spreader Value—\$83.50 Freight Paid

Value boosted—price dropped—on the spreader that has led them all in quality for 17 years—that's your opportunity this season. We jump years ahead again, with 19 improved features—all found on no other spreader made. Yet, with increased facilities and the largest output in the business, we slash prices while increasing values. Others have always imitated the old famous "American" as closely as they dare—even imitated the name of our machines—that's why we now call it "Detroit-American." But don't be blinded by claims—get the books and compare. Note our offers—

30 Days' Trial—Cash or Credit

Get our proposition before you buy—see why others are getting excited, making extravagant promises and harping on price, with little to say about construction. But do they even beat these prices with their makeshifts? We deliver to you, freight prepaid, in Michigan, \$83.50; in Indiana or Ohio, \$85.00; in Illinois, \$86.50; in Wisconsin, Iowa, Minnesota or Missouri, \$90.00; and these figures are for a spreader that is better than any one thought a spreader could be—the improved—

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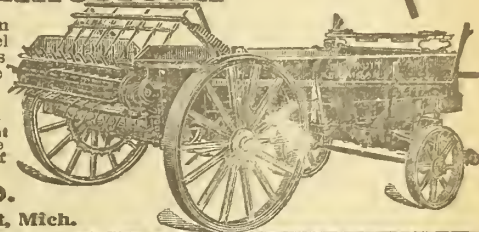
Made in all sizes. More steel used than in any other spreader; cylinder all steel; steel rake and end gate; simplest feed—6 changes made from seat, the only direct chain drive—no gears; lightest in draft—all together 19 special features.

Free Books—The best published on value of manure; how to spread, etc., and how to buy at the right prices on the right terms. Shows and prices the original Tongueless Disc and the finest line of Cultivators too. Send coupon or postal today.

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ventilated stables when the cows are suddenly exposed to outside air. Enlargement of the superficial glands; i. e., those about the throat, in front of the shoulders, in the flank and posterior and superior to the udder, is frequently seen in tuberculosis, but may be caused by other infections. When tuberculous the swelling is usually cold and painless.

The chief use to which tuberculin is now put is the diagnosis of tuberculosis in cattle. That it is perfectly harmless to healthy cattle is proven by its method of preparation, which is as follows: Bouillon is prepared with beef or veal infusion, containing four per cent to 6 per cent of glycerine. This is placed in flasks and sterilized (heated to a temperature sufficient to kill all living organisms.) It is then inoculated with a pure culture of the tubercle bacillus and kept in an incubator at 98 degrees Fahrenheit. In the course of a few weeks the tubercle bacilli will have formed a coarse granular scum on the surface. The contents of the flask is now poured into a porcelain dish and heated until evaporation reduces it to one-tenth its volume. It is then filtered through a porcelain filter. The liquid passing through the filter constitutes tuberculin. The heat employed to concentrate the fluid before filtering is sufficient to kill all bacilli. The porcelain filter removes all the dead bacilli. Consequently tuberculin is the bouillon in which the tubercle bacillus has been grown. It contains the toxic material

THE UNDERHILL COLLIES.

For many years the advertisement of the Underhill Collies has been a feature of the pages of The Homestead. It is a pleasure to the publisher to have such an advertiser, because not only is the advertiser pleased with the excellent results he secures, but his patrons are also satisfied because they get dogs of the very sort, which are easily trained and have all the natural instincts of good breeders. The Underhill Collies are sold by Mr. George T. Underhill, of Knoxville, Iowa. The engraving presented herewith represents Bess Anderson, one of the best of Mr. Underhill's Collies, as photo-



graphed at six months of age. Mr. Underhill advises us that during the last week of December he shipped from twenty-five to thirty puppies, most of them going for Christmas presents. Shipments were made to Alabama, North Carolina, South Carolina, Texas, Mexico, Colorado, Wyoming, Idaho, Missouri and Iowa, and he advises us that he has seven or eight litters now that will soon be ready for shipment. Those who want to buy high-class Collie puppies should address Mr. Geo. T. Underhill, Knoxville, Iowa.

produced by its growth, but this has been raised to a boiling temperature destroying all germ life, and the dead germs have been removed by filtration.

From the above description of the preparation of tuberculin it is apparent that it is impossible for tuberculin to produce tuberculosis or any other disease. The injection of a small quantity of tuberculin into animals which are affected with the disease will produce what is commonly termed the tuberculin reaction.—(Dr. Strange in Iowa Bulletin.)

Cooking Corn for Hogs.

To the Editor of The Homestead:

In a recent issue of your paper I note your invitation for farmers and feeders to discuss the matter of feeding cooked feed to hogs. So far as my experience in feeding hogs has taught me I have found that it pays well to shell, grind, and cook the corn; as to other feed it is well to mix this with the corn. Experience has taught me that it pays well to cook corn alone. But, of course, when corn is cooked for hogs it must be shelled, and as it will not do to cook the corn whole, it must be ground. But much of the cooking depends upon the kind of cooker used. When fattening it is best to use a steam cooker, as then there is no danger of burning the food. While a steam cooker costs a trifle more in the beginning it pays to buy one in the long run. When cooking corn for fattening hogs it should be cooked to a thick gruel with a small quantity of salt and cut clover added to it, usually one and one-half to two bushels of ground corn are sufficient to make a barrel of cooked feed. Of course, water must be added to suit one's own judgment. For shoats more water and less corn, with scraps, vegetables and a little oil meal. If our asking-brother farmer has fifty shoats which he wants to fatten fast I advise him to purchase a cooker and cook their corn. They will fatten in fully one-half the time it takes to fatten them in the ordinary way and the saving in feed on his bunch of hogs will more than pay for his cooker and his feed. Among some of them cooking feed for hogs is thought to be foolish, but experience has shown me that one will be well paid for his time and the trouble it takes to cook his corn and feed by the saving he makes on his feed bill.

Warren Co., Mo. Louis Haake.

The experiment of growing walnuts on oak trees is, according to newspaper reports, being conducted successfully by E. M. Price, of Sacramento, Cal., who has a large number of new species about his home. The nuts are said to grow about three times as large as those in the markets. The product is the result of cutting the limbs of walnut trees and grafting them into oaks.

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OUR HOME DEPARTMENT

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

Sometimes we wonder why it is that we are called upon to bear so much of pain and sorrow. It is because we need the varying experiences of life to round out our characters and bring out the graces and the virtues which only adversity can ripen.

Have you ever noticed that people who have never known sickness or pain are rarely sympathetic toward those who are burdened by the ills of the flesh? I have. I have noticed also that while sometimes great sufferers are peevish and discontented, sometimes their faces shine as those who have seen beneath the pain angel's mask the shining face of God. I have also noticed that the coming of sickness unlocks frozen springs of tenderness and love in homes where the stress of life has caused the members of the family to become estranged from each other.

Oh, the fingers of affliction have wonderful power! A few short months ago a father and mother were seated in the court room waiting for the calling of a suit for divorce entered by one of them when the news was brought that their son, a lad of seventeen, had been instantly killed by the accidental discharge of a gun while out hunting. The shock was terrible, the loss heartbreaking, and in their agony the two turned to each other. Past differences were forgotten, past grievances were buried; over the coffin of their son the embers of love revived, and the two resolved that bearing and forbearing with each other they would try to live as two should who before God and man had promised to take each other for better or for worse until death should them part.

There is another thing: we need the bitter of life that we may fully appreciate its sweet.

Where people have good always it becomes monotonous. Variety is the very spice of life. And though none of us crave, or even welcome, adver-

sity, after it has come and gone we do so appreciate the happiness of Easy street that looking back we feel the experience was worth what it cost.

Parents sometimes shrink from the blows of misfortune because of their children, but here again a blessing often comes under the guise of a curse. Nowadays young people too often have things too easy. They are given everything and have no effort to make for anything. In consequence they grow up lacking in the initiative, in power to make their own way and in ability to rise above discomfort and difficulty. This is a positive misfortune and where sickness or loss of worldly goods puts responsibility upon young shoulders so long as the burden is not too heavy youth gains rather than loses.

Those who read the psalms of David will remember there is one in which the psalmist tells that seeing the prosperity of the wicked his heart grew sad within him and his "feet well-nigh slipped." One of the uses of adversity is the testing of the virtue of men. If it always paid from a material standpoint to seek after righteousness, goodness would cease to be disinterested. Satan, in the book of Job, practically says this when he asserts that Job was not righteous for naught. It was not until Job, deprived of wealth and children and covered with boils, yet praised God, that Satan was persuaded that his virtue was real.

Whether we will or not, sorrow and trouble come to most of us soon or late. It therefore behooves us to hold ourselves that when they come our way they will not take us un-awares.

It is possible, and it should be the determination of each one, to cultivate a philosophy of life which recognizes the beneficent mission of cloud and storm, of sickness and death, of loss of goods and friends. In this way when these things come they are accepted without bitterness, which is their sting, and in that spirit which enables them to do their work in the soul by lifting man above the things of earth and into the realm of the eternal.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

There is nothing so kindly as kindness; There is nothing so royal as truth.

There is no winter in the heart; Of him who doth a kindly deed; Of what he gives he hath a part, And this supplieth all his need.

What sunshine is to flowers, amiability is to the family. Cross looks and cross words dwarf and starve the souls of those around us.

THE DISCIPLINE OF CHILDREN.

About the worst thing parents can do is to discuss the failings of children before them.

The next worst thing is for one parent to attempt to punish the child and the other parent to protest against it.

Either action will damage the respect of the child for one or the other of its parents, and if there is one thing more than another that parents want to preserve, it is their dignity before their children. A child who gets the idea that one parent is at variance with the other on the question of discipline will make both unhappy and render itself decidedly objectionable by playing off one parent against the other.

If you want to have any harmony in the family, get together on the question of disciplining the children—at least in their presence—and if you want to quarrel on methods do it in privacy where you can have it out without lowering yourselves in the eyes of the children.

HOUSEHOLD HINTS.

If the housewife will wear a small apron of oil cloth over the gingham one in the kitchen, she will find it protects her house dress as well as the apron from the grease of the stove and water that may accidentally be splashed.

Kerosene in the boiling water whitens clothes safely, especially such as are yellow from laying. Use a tablespoonful to a gallon of water. For things very yellow or grimy, make an emulsion of kerosene, clear lime, water and turpentine in equal parts. Shake together until creamy, then add a cupful to a boilerful of clothes and keep it over the fire half an hour.

To clean and renovate velvet, make a mixture of equal parts of water and spirits of hartshorn. Take a stiff brush, dip it into the fluid and rub the velvet very carefully. When all stains have disappeared, the pile of the velvet may be raised in this way: Cover a hot smoothing iron with a wet cloth and hold the velvet spread over it; the vapor will raise the pile of the velvet with an occasional whisk from a brush.

AMONG OURSELVES.

The winter evenings, where people live on a farm, offer fine opportunities for reading aloud. One person may

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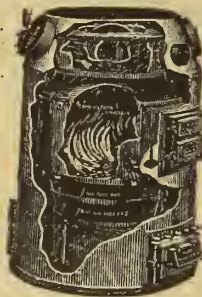
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do the reading or the members of the family take turns as seems best. And while the reading proceeds fingers may be busy sewing, mending, carving, whittling or what not. To further the reading and the working we shall devote the first two numbers of our program this week.

First the book talk, which is by Grace Resch who places her experience at our disposal in a book list:

Among the best and most interesting family stories are "Uncle Tom's Cabin," by Stowe; "Helen's Babies," by Hahberton; "The Hoosier Schoolmaster," by Eggleston; "The Wide, Wide World," by Warner; "Our Bessie," by Carey, and "Rose in Bloom," by Alcott. Of the many love stories one may select "Not Like Other Girls," by Carey; "The Conquest of Canaan," by Tarkington, and "That Printer of Udell's," by Wright. Then books which treat of kindness to animals are "Black Beauty," by Sewell; "Dick Downy," by Patterson, and "Wood's Natural History." For the nature lover "Flower Fables," by Alcott, is good. Then some good religious books are "In His Steps," by Sheldon; "Pilgrim's Progress," by Bunyan; "Opening of a Chestnut Burr," by Roe; "Black Rock," by Connor, and "Ten Nights in a Bar Room," by Arthur, are fine for temperance stories. "Strive and Succeed," "Jerry, the Back Woods Boy," "Hector's Inheritance," and "Tom the Boot-black," by Alger; "By Right of Conquest," by Henry, and "Charlie's Fortune," by Op-tie, are good books for boys. There are some very popular books which are not new, which young folks like to read. Among these are "Anderson's Fairy Tales," "Adventures of a Brownie," by Mulock; "Alice in Wonderland," by Carroll, and "Grimm's Fairy Tales," "The Pioneers," by Cooper; "Dickens' Child's History of England," "Lives of the Presidents," "Military Heroes of the United States," and "Thaddens of Warsaw."

This is a well chosen general list for use in an average home. It should be carefully preserved for future use where not available as a library guide

in the present. How I wish every schoolhouse were a traveling library station. And so many more might be if there were even two progressive families in the school district.

Number two is brought to us by Priscilla who is interested in the making of homemade rugs. It is a clipping she brings us, because, as she writes me, it puts the thing more clearly and more briefly than she could hope to, because while clever with her needle she is not so with her pen:

There is material found in every household that can be made into pretty and serviceable rugs, and nothing repays one so well for the time spent upon it as a pretty, substantial rug. Serviceable rugs and mats can be made from burlap, and plenty of burlap sacks are found in nearly every farmer's barn. First make a foundation of the burlap of the size and shape you want the rug to be. Draw out a thread every six inches in a piece of burlap and cut apart where the threads are drawn, then draw out the threads two and a half inches on each side, leaving one inch not raveled in the center. When you have a quantity of strips fringed, double them in the middle and sew them to the foundation by the unraveled center one inch apart. One of these makes an excellent carriage mat, or it may be made as large as wanted, then lined with nice cloth and used as a lap robe, and if they are neatly made they resemble the handsome woolen robes and they can be made in a very short time and at very small cost.

I remember seeing some rugs of burlap several years ago and thinking them quite pretty. They were of dull green, but might have been as good in any other soft color. The point requiring most attention is the dyeing. Vivid colors are objectionable in rugs, but for some reason the home-made article is frequently so bright that it offends good taste. I forgot

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to say that Priscilla's rug talk will be continued next week.

Everybody is looking forward to the second instalment of letters for M. L. H. It will be opened with an epistle from Cousin Beth:

Just a word for the girl who thought of marrying the man who "drank a little." Tell her don't! Oh, don't, till he has proven through abstinence long enough to be permanent for life that he can leave it alone for her sake, before, not "after taking," her for better or worse. I can thank God for a sober husband when I see the sorrow others have with drunkenness. One neighbor said, "Oh, if girls only knew enough not to marry men who drink, even a little, for they get worse every year they live." If they do not love them enough to abstain before marriage they will very seldom after they have them bound by the silken ties that soon become chains, when the iron of suffering enters their souls, and their sorrow not only for themselves, but the children that are sent as often to the drunkard's home as to that of others, and sometimes oftener. But perhaps the lady will be like the Irish lad in a poem I once read, who asked the priest if he should marry a widow. The priest told him to listen to the bells and do what they said. The bells said, "Go marry," to his ear, and after doing so and ruling it, he told the priest of the poor advice, and the wise father told him to listen again, as he surely had misunderstood, and sure enough, the bells told him not to marry. And so according to one's desire is advice often taken or rejected. A verse from "Hiawatha" is appropriate on the subject of weddings:

"Thus it is our daughters leave us, Those we love, and those who love us! Just when they have learned to help us, When we are old and lean upon them, Comes a youth with flaunting feathers, With his flute of reeds, a stranger Wanders piping through the village, Beckons to the fairest maiden, And she follows where he leads her, Leaving all things for the stranger."

The other day a bright attractive self-supporting girl married a young man of doubtful habits. A friend ventured to say to her mother that it seemed a pity for Mary to marry so young. The mother's eyes filled as she said, "Yes, but I could do nothing with her though I cried my eyes out." The trouble is just as Cousin Beth

points out; young people will have their own way.

A young wife is waiting. Let us hear her:

Let me try to give a little advice to M. L. H. I am only a bride of not quite a year and only a little past twenty, but have traveled much. What I have learned has been from watching others. Now, don't ask him to make promises. Don't marry the man to reform him. If you can't take him as he is, better leave him. Don't doubt his word, but trust him. I am a Christian, but my husband is not. Did I ask him to reform? No. As it is we both give in and we lead a happy life. Now, dear friend, open your eyes. Are card parties any worse than author parties? One has figures, the other faces. As long as they don't play for money, I say no. There is harm in anything that you make harm out of. We have cards in the house. My husband invites his friends, they play, and sometimes I take a hand to make up the required number. I don't drive them to the barn to play, for there they drink, play for money and tell vile stories. As it is, in the house, they are perfect gentlemen. My husband never goes alone, not even to lodge without me. If he says there is going to be a lodge dance and he wants to go, we go. My husband was not twenty-one when we were married and I not twenty. I have a girl friend, a true Christian like yourself, and she has done as I have. It would be hard to find a happier couple and they have been married three years. I do hope you will find a little help in this. If I could see you face to face I could tell you oceans more.

Wise compromise is an important factor in happy married life. If two who marry are to become really one they must grow together on the principle of "In essentials unity, in non-essentials tolerance." It is in the deciding of essentials that the trouble arises.

And here let us have a word from Mrs. Beardsley:

I would like to have a talk with M. L. H. regarding the step she contemplates taking. Her better self rightfully hesitates to form such a union. Let me tell you there is no such thing as "more of a Christian." He is either a Christian or he is not. Now, my dear girl, you say you are a Bible reader. Then please to read II Cor. 6-14: "Be not unequally yoked together with unbelievers." This in itself should be counsel enough. You say he drinks some and goes to dances. Beware of that drink. You do not know where it will end. Read the tragedies of thousands of homes where drink has blighted every prospect. Can you afford such a risk! Oh, can you? What follows in the wake of the saloon and the dance hall? The brothel. When asked to enter wifehood and assume the awful responsibility of motherhood you may well weigh the man's character. Here is the critical point. This man is to be the father of your children. With the law of heredity and environment staring you in the face you may well pause here. Your choice in its results are not confined to yourself, nor even to your immediate children; but through them will help to make or mar many in future generations. In justice to yourself and the man you expect to marry do not take this step unless you love him supremely. If he is jealously inclined, as you say he is, and knows of your former love, there will be many times—oh, so many times in life, when, do as you may and the best you can, the thought will rankle in his heart, and the thought of another will embitter both your lives. If your life is dedicated to God's ordering he will send you a companion that will help you to higher living rather than being a constant hindrance to a Christian life.

A writer who delights in epigram says that for every woman who breaks her heart over a man before marriage there are a hundred who do it afterwards. If girls were advised as Mrs. Beardsley advises M. L. H. and were governed by the advice given this would not be true.

And now two men; the younger, A. H., of Wisconsin, first:

From a man of ten years of married life behind him. From contents of M. L. H.'s letter, I take it for granted that she is not in love with her young man friend. For his sake I would say do not marry him. For your sake, do not make a hypocrite of him. He looks at you now through the eyes of love. To him you are faultless, possibly perfect. Do others see you in that light? Do you yourself think that you are without fault? Has he ever held any of them up to you and asked you to improve, in order that you may have him for a husband? Did it ever enter your mind that a fault-finding person is about as disagreeable a man or woman as you would want to live with? Did you ever stop to think that a man may give up pleasures in order to gain the object sought for, with no binding guarantee that after his marriage he will not resume them? He may see your faults after marriage. Undoubtedly you will not overlook his. If this young man friend of yours thinks enough of you to make you his wife and if as you say he is a well-to-do young farmer, tends to his business, has gained his wealth (or part of it) through honest labor, I would say to you in all earnestness, do not draw the reins too tight on him in your zeal to make him a model of virtue, but remember that he is a healthy young man (which he should be if he intends marriage) and a man must seek enjoyment of some sort—recreation from labor. He should not be forced into womanish ways to satisfy this desire. Let him be man, as he is. Do not make the mistake of many others, trying to mold a man into a new being. Ninety-nine per cent are failures. I have plenty of faults myself, but the dear little wife does not worry or fret about them, nor drive me from our happy home

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The chemical elements of pine which are very healing to membranes, are obtained in high proportion in Pinex, the most valuable concentrated compound of Norway White Pine Extract. None of the weaker pine preparations will work with this recipe. Your druggist has Pinex or can easily get it for you.

Strained honey can be used instead of the syrup, and makes a very fine honey and pine tar cough syrup.

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with faultfinding. We are married for better or worse.

A. H. is right in saying that trouble comes from one party in marriage trying to mold the other to his or her will. Unless each is willing to be conformed in love to the desire of the other, trouble is sure to follow efforts to change fixed habits. Hence the necessity of wise and careful choice before the Rubicon is crossed.

There are yet two letters which I had intended we should have this week, but they must be held over. With them I think we may close this discussion, which I venture to believe has been rather more than usually interesting and helpful.

DRESSMAKING—NO. 60.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

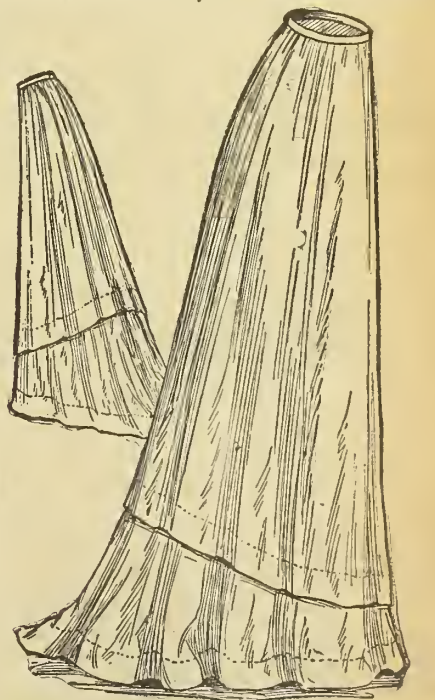
Every possible variation of the tunic idea is being exploited just now and here is a skirt that is simple in the extreme, yet which gives that effect. The upper portion is gathered, forming soft folds, and is finished with a wide hem or tuck and the lower portion is a circular flounce joined to it under this tuck, so that, while there is the effect of a double skirt, there is less material required and less labor necessary for the making. All the pretty soft fashionable materials are appropriate, chiffon cloth, crepe de Chine, charmeuse, marquisette and the like and even the slightly heavier cashmeres and materials of the sort. If liked the lower edge of the hem, or tuck, can be finished with fringe or with trimming and the skirt can be made more elaborate by applique of any sort, but just as illustrated the skirt is exceedingly smart, effective and practical.

The skirt is made in three pieces and is gathered at the upper edge and joined to a belt. The lower edge is finished with a tuck. The flounce is circular and it is seamed to the lower edge of the skirt under the tuck, so that the joining is entirely invisible.

The quantity of material required for the medium size is 7½ yards 27, 6 yards 44 or

4 yards 52 inches wide, the width of the skirt at the lower edge is 4¼ yards.

The pattern 6527 is cut in sizes for a 22, 24, 26, 28 and 30-inch waist measure and will be mailed to any address by the Fashion



[6527 Three-Piece Skirt with Circular Flounce, 22 to 30 Waist.]

Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

Capes made in military style are being much worn this season and are exceedingly smart. They suit young girls peculiarly well and they are well liked both for daytime and evening wear. This one is made of military blue broadcloth and is faced with dark red silk while the collar is of velvet finished with braid, but simpler capes are made of serge lined with bright red flannel, the flannel extending to half the depth of the revers, and more elaborate ones can be made of light-colored broadcloth with lining of silk or satin. The cape is excellent for stormy

weather use, too, and when designed for such purpose can be made with the double-breasted closing and openings in the fronts that are shown in the small view.

The cape consists of fronts and back. There are seams over the shoulders and the openings for the arms can be made in these seams or cut in the fronts and finished with laps. When revers are desired the fronts are turned back to form them. The high collar is seamed to the neck. The closing of the single-breasted cape is made invisibly, that of the double-breasted cape with buttons and buttonholes.

The quantity of material required for the sixteen-year size is 6½ yards 27, 4¼ yards 44 or 3 yards 52 inches wide with 1¼ yards of silk for the facing, ¾ yards of velvet for collar.

The pattern 6531 is cut in sizes for girls of 14 and 16 years of age and will be mailed



[6531 Misses' Military Cape, 14 and 16 Years.]

to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
In night despair Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson IV.—Matthew V., 1-16.

January 23, 1910.

True Blessedness.

When the "Sermon on the Mount" is contrasted with other forms of eloquence, its superiority is at once apparent. They were for crises. Their fame and usefulness, comparatively, passed with the occasion that gave them birth. They have gone to the oblivion of congressional or parliamentary records. A few of them only find place in neglected volumes of "masterpieces of eloquence." The glory of Jesus' inaugural sermon is, that it addresses itself to the universal human heart. It has a development of its own running parallel to that of the race. It unfolds itself in practical helpfulness for every emergency. Its principles are so fundamental as to be always practicable. That is the secret of its perennial power. It was spoken nearly two thousand years ago to the unsynagogued congregation. That assembly dissolved, but in each successive generation a new and ever-increasing throng has come together. As from the sounding board of the open heavens, the old sermon has struck the ear of each new congregation. The sermon Jesus preached is no dream of ideal eloquence. It lives in every dialect. It is the most potent composition in written speech. Millions know it by heart. Millions live by it.

The likeness of some of Jesus' sayings to the aphorisms of the rabbis may be admitted. But when such rabbinical maxims are put back into their context they are usually found to be on a lower plane, and often moving in a direction opposite to the teaching of Jesus. He used modes of speech current in his day, but made them vehicles of diviner wisdom. Jesus stands the original and unceasing teacher of the race. He speaks with authority to the universal human heart, illuminating, inspiring, empowering it. He could say, not only, "I speak the truth," but "I am truth." He is original source, not transmitter; fountain, not conduit! Impossible that the stream, as it proceeded from his lips, should be perturbed or corrupted! He is not the institutor of a system of doctrine or the formulator

of a ritual. He inspires a life in the soul, sets up a kingdom within, consisting not in sacrifice and oblation, but righteousness and its concomitants, peace and joy. So he said, "The words I speak unto you are spirit, are life."

The Teacher's Lantern.

Our great familiarity with the Beatitudes is in a sense a disadvantage. We have them too much by rote and are words with a pleasing sound. We need to find the spirit under the letter. Jesus' purpose in this sermon was to unfold the principles of the kingdom of heaven. Each beatitude, therefore, has a specific meaning pertaining to that kingdom. It is not the poor in general, or those who mourn on account of bereavement, or those who in a common sense are humble—not such that are felicitated. Only those in particular are congratulated who are conscious of the emptiness and poverty of their souls. In such there is room for the kingdom. Those who on account of this are sorrowful and penitent, are in the way of divine comfort. Still another subjective phase is depicted in the word "meek." The contrast is to the self-satisfied, pharisaical spirit, which makes the Savior's work a supererogation. Again, a holy appetite is indispensable. Emptiness, penitence, humanity, desire,—these are the conditions of the entrance of the kingdom, which comforts, enriches, and fills. Again, the suitor for divine mercy must himself be disposed to show the same quality towards his fellows. Heart-purity is the sine qua non of seeing God; seeing, which is the Hebrew equivalent of possessing. Jesus passes now from partly or wholly subjective phases to an objective activity. The children of God imitate their Eld-



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er Brother, whose greatest achievement was reconciliation. They have a holy ambition to bring their fellows into peaceable relations with their Heavenly Father, and make them all one in Christ. The final felicitation is of those who endure persecution and falsely-grounded reproach for the Master's own sake. Their reward in heaven is assured. This is the martyr's beatification. Thus as Pressense says, "The beatitudes begin with weeping, and are closed with blood."



THE YOUNG FOLKS

The Prize Winners.

The invitation to the young folks to write letters on the subject, "How I Spent Christmas," resulted in over 1,000 letters coming to the editor of this department. It has been a very pleasant task reading all these letters, for every writer had a good time and told about it enthusiastically. It has been a harder task to pick out the prize winners, for there were so many splendid letters. If the editor had her way she would give a prize to every letter writer, but this is impossible. Only six prizes were promised, but the letters were so many and so good that this number has been doubled and twelve money prizes are going to be given altogether. The editor has decided that the first prize is a tie between a Minnesota and a Missouri girl. The letters are equally good and no choice can be made between them. Each of these writers will receive \$1. The second prize is also one dollar. Only four prizes of fifty cents each were promised, but ten will be given. The prize winners are as follows:

First prize—Ida Asmann, Worthington, Minn.; Grace Latham, Rich Hill, Mo.

Second prize—Berenice Smith, Adrian, Minn.

Third prize—Frank L. Kemmel, Brunswick, Neb.; Bessie Dreher, Scranton, Iowa; Gladys Miller, Lincolnville, Kan.; Ione Schumacker, Reedsburg, Wis.; Julia Alness, Fertile, Minn.; Nellie Collins, Williamsburg, Iowa; Lela Carper, Dorchester, Neb.; Bertha Ferguson, Fort Collins, Colo.; and Margaret Kading, Casey, Iowa.

Some of the winning letters are

printed in this issue. Others will be printed from week to week throughout the coming year, together with other letters written by boys and girls of grain-belt farms. If you think you can write a letter or story as good send it in to the Children's Editor and it will be printed over your name.

A Novel Way to Find Gifts.

The week before Christmas every one was very busy. Large and small bundles were smuggled into the house until it seemed that every nook and cranny must be filled. My sister and I spent two days making candy and popping corn. How nice it seemed to get into bed after working hard all day! We were never so tired before, and the sandman always brought us pleasant dreams of old Santa and wonderful presents, but somehow they always disappeared when we tried to grasp them.

On Friday afternoon every one came home. "Every one" means cousins, nieces and nephews, sisters and brothers-in-law. What a jolly household we were! Every one was clamoring for "just one peep" into the pantry, cupboard or trunk, as the case happened to be. But we had passed a rule that no one was to be favored with even a peep, so all curiosity was "doomed to die an unnatural death," as my fourteen-year-old cousin, who is very fond of using long phrases, said.

After supper every one was ordered off to bed and in some mysterious manner every one was at last packed away, but the how, when or where of the matter was a complete mystery to me. How a dozen people could be packed into three bedrooms contain-

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We guarantee that Zephyr flour will produce greatest number of loaves possible for any flour and complete baking satisfaction—or your money back! Get a 48-pound sack. Use one-half of it. If you are not satisfied return the remaining

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every sack of Zephyr Flour. It will satisfy you and it will produce as many loaves of bread per sack as any flour, or your grocer will refund your money.

BOWERSOCK
MILLS & POWER CO.

ing one bed apiece, was a piece of witchcraft. However, as I wandered through the house waiting for every one to get asleep before beginning to work, I made an interesting discovery. From the couch in the dining room came certain sounds which reminded me of a satisfied bear in a berry patch, while on the floor two small boys kicked each other in sturdy defiance. At length the house was silent and work began. Only mother, my sisters and myself had been let into the secret as to how the presents were to be distributed.

I had read a few weeks before Christmas of a novel way to distribute Christmas presents. Of course I wanted to try the plan, but mother did not wish to. After a great deal of argument I at last obtained her consent to try my new scheme. Accordingly, on Christmas eve we were very busy and did not get to bed until half-past eleven.

Christmas morning dawned! What a hubbub and confusion! Each one had found a large tag fastened to his stocking, on which was written a certain place to go. When this place had been reached another card was found, directing the owner to a place farther on. After a long, exciting chase each one at last found his presents. Of course mother and I had to accept our presents in the commonplace manner, but we were very much satisfied and felt repaid for our trouble as we heard the joyous shouts of the children as they spied their presents.

After every one had found their presents and rejoiced over them we all gathered around the table for breakfast. A rather late breakfast at eleven o'clock, but then cook said: "No dinner till three!" So it was no more than right that we should have a late breakfast. After breakfast every one became interested in their presents and the time passed quickly. Before anyone realized it, it was so late dinner was served. And what a dinner it was! The Christmas goose was certainly fine. Everything was fine,

and by the time dinner was over even Bobby, who is the glutton of the family, was filled.

The afternoon passed more slowly, because every one felt too much like a stuffed sausage to attempt much romping. Every one was happy and gay and the Christmas entertainment at the church was a fitting climax for such an interesting and happy day. So ended our Christmas and, although Christmas is a wonderful day, nevertheless I am always glad that it comes but once a year.

Ida Asmann.

Christmas in a Hospital.

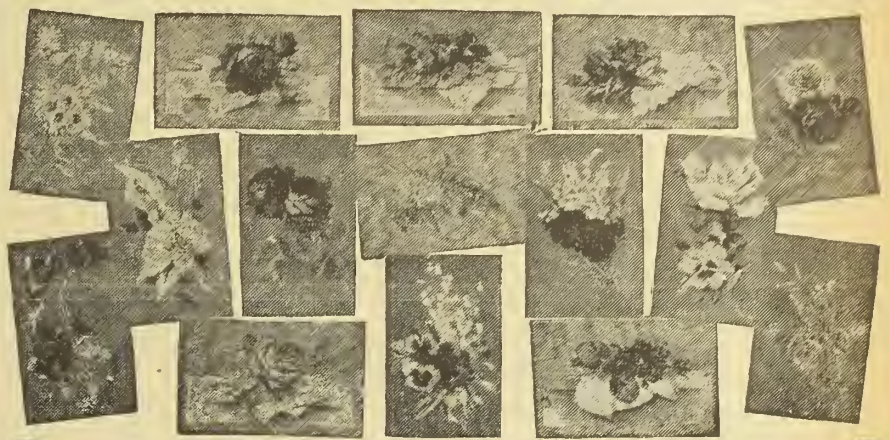
I am a little girl twelve years old. In September I went into the barn to get my pony to drive to school. As I was passing through the barn two large horses were fighting and one of them reared back and knocked me down and broke my limb and crushed my hip. After it had got well I fell and broke it again and it grew wrong, and so I had to go to the hospital. My brothers and sisters kept writing to me and asking me if I would be home for Christmas. I kept asking the doctors if I could go home for Christmas, until a few days before Christmas. Then when I found out I couldn't go home for Christmas I made up my mind that I would rather miss one Christmas at home and stay and have a good limb and be able to walk like other little girls. I lay in a large ward where there were nine beds. There were two little girls in the ward about my age, named Ruth and Eva. The night before Christmas Ruth and I made two large stockings of cheesecloth to hang up. You may be sure we made them large. I sent a good many Christmas postals, as I was able to write lying on my back. It amused me and passed the time away. When I awoke in the morning the first thing I saw was my stocking overflowing with presents and the dresser top full also. My papa, mamma, brothers, sisters, cousins and friends sent me presents. A French lady gave me a large doll. Ruth, Eva and I had each given one another presents. Eva was able to walk to my bed and Ruth came on her crutches and sat by my bed and we compared presents. When the mail was delivered we received so many beautiful Christmas cards we hardly knew what to do with them. Every one in the ward received presents. The ward was beautifully decorated with holly and other Christmas decorations. Of course I couldn't go to the table to eat my Christmas dinner, as I had to lie on my back with heavy weights stretching my limb out. But the waiter brought me in a lovely dinner on a tray. I enjoyed it, although I would rather have been at home eating dinner with my papa, mamma, brothers and sisters. Every one in the ward seemed happy that day although they were sick, for all had been remembered with presents. Some of them were pretty sick. One lady had just had her foot cut off. Another lady who had been sick had received news that her millinery store at home had burned down. Eva felt the happiest of us little girls, for the doctors said that she could go home the day after Christmas. Her papa came with her, but she had not seen her mamma for a long time. I think she thought more of going home than of all her presents. She has been to the hospital twice before. In the afternoon there were many callers on the sick people in our ward. My mamma was with me, so it was not quite as bad being away from home on Christmas, and although every one was very kind to me, there is no place like home on Christmas, or any other day.

Berenice Smith.

Santa Claus Caught Fire.

About two weeks before Christmas we began to practice for our program. We practiced every morning and evening. On Monday before Christmas we went to the creek at noon and chose a pretty tree. The boys cut it down with their ax. We skated on the ice awhile and then went back to the schoolhouse, fixed our tree in a box, cut the limbs off of one side and placed it in the southeast corner of the room. I went home with one of the girls that night, and as her father donated the cedar we children each carried some to school the next morning. At recess and noon we older ones helped tie the cedar on the tree

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Write plainly your name and address on this coupon and send it to us with five two-cent stamps or ten cents in coin to cover cost of postage and packing, and we will mail the cards to you with full particulars about our easy plan for getting 50 Easter post cards; Lilies, Crosses, Chickens, Rabbits, Eggs and Choir Boys, mounted on both Gold and Silver backgrounds.

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while the smaller ones went after more. Then on Wednesday we strung popcorn and cranberries for trimming. Thursday we put the tinsel, popcorn and cranberries on the tree. On Thursday evening we went to a Christmas program to one of our neighboring schools called "Engle." They had a fine program, but as the tree the teacher ordered was so small, they did not use it and old Santa brought his suit case full of nice presents. I received a nice handkerchief box, a cream pitcher and a pretty framed picture. I guess old Santa gave me these because I spoke a piece for him. We went home, went to bed and I slept like a log. I got up and went to school Friday morning. We did not have any school that day, as we were going to have our program that afternoon, so we spent the time in putting the presents and candles on the tree and practiced. In the afternoon about two o'clock we pulled the curtains down and lit the lamps and candles. Our tree was about seven or eight feet tall and looked real pretty with the candles and snowflakes on. The snowflakes of cotton which we children put on to make it seem like a snowstorm, and there was a snowstorm outside, too.

Our program only lasted about an hour. At the end old Santa came in with his suit case. He came around, took a good look at us all, talked to us and asked the smaller ones if they spoke a piece. He had taken a few presents off the tree when—"poor old Santa Claus"—the cotton on one of his coat sleeves caught fire. The teacher hitting it with her hands had it almost out when his other sleeve caught fire. It ran up his coat and caught his whiskers and cap on fire. One of the men pulled his face and cap off, took it out and buried it in the snow. He pulled his coat off and gave out the presents just the same. I got an autograph album, a bureau with a set of pins on the inside and covered with shells on the outside, a nice handkerchief and some popcorn,

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candy and post cards which were given us by the teacher. Santa brought the popcorn and candy in his suit case. We children drew names, so there were quite a few nice presents. Well, the next day was Christmas and I stayed home. We had roast duck for dinner and also candy, nuts and oranges. We spent the day in sleigh-riding, coasting and skating. The next week was vacation and one of my friends came up from Marion. We spent most of our time in coasting. We had no sled, so how do you think we coasted? Well, I will tell you. As the bank of the creek is so steep I had often wanted to coast, but had no sled. Papa told me he used to coast in a scoop shovel. That seemed funny to me, but I tried it and found it lots of fun. Just get in, having the handle in front. Hold your feet off the ground, rear back and you will fly. Use your feet when need be, to guide you.

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The Government Meat Inspection.

Dr. A. D. Melvin, Chief of the United States Bureau of Animal Industry, in his annual report to the secretary of agriculture, has the following to say with regard to the meat inspection:

During the past fiscal year there were inspected at the time of slaughter 35,672,075 animals, and of these there were condemned because of disease or other conditions 141,057 entire carcasses and 899,628 parts of carcasses, making a total of over 1,000,000 animals condemned in whole or in part. In addition there were condemned on reinspection nearly 25,000,000 pounds of meat and meat products which had become unwholesome since inspection at the time of slaughter.

The meat inspection has continued to grow in volume and has reached the point where further extension is impossible without an increase in the appropriation by congress. The expenditures on account of this work during the fiscal year amounted to about \$2,884,000 out of an appropriation of \$3,000,000. At the close of the year the rate of expenditure was higher than at the beginning, and it is now only by the strictest economy that the service can be maintained on its present basis without additional funds.

With the additional authority given by the new law the bureau has been able to bring about a steady improvement with respect to sanitation. New packing houses have been built so as to embody the best modern sanitary construction, and great improvement has been made in the sanitary conditions of the older plants. The latter are being gradually abandoned for the erection of modern plants which may be kept at a proper standard of cleanliness with less labor and expense. As a result of this improvement there has been a considerable decrease in the amount of meat condemned because of unsanitary conditions. It has also been found that where cleanly methods are employed there is much less reason for the use of preservatives than under the old conditions.

A constant effort has been made to keep the service at a high standard of efficiency and to make improvements wherever possible. Notwithstanding the efforts to give the public a reliable inspection, however, the service has been made the object of unjust attacks. Serious charges made against the service at East St. Louis by a former employee were carefully and thoroughly investigated and were found to be without any real foundation, but to have their origin in personal animosity. A full report of this investigation was published by the department. In other cases the attacks have proved to be due to ignorance or misconception of the facts, a failure to understand the system of inspection, or a desire to cause sensation.

Thorough investigation of a number of reported cases of ptomaine poisoning attributed to inspected meat has failed to disclose a single instance in which the trouble could reasonably be ascribed to that cause. These investigations were undertaken largely because of assertions by manufacturers of preservatives to the effect that the enforced discontinuance of preservatives was responsible for a great increase in the number of cases of ptomaine poisoning. The bureau has failed to find any justification for such arguments. In three cases of extensive outbreaks in schools it was found that the trouble was really typhoid fever, and in one of these instances it appeared that the report of ptomaine poisoning was circulated with a view to concealing the real cause. Another report of a death from ptomaine poisoning from eating canned meat proved to have originated in the imagination of a newspaper correspondent, who acknowledged that it was untrue. The family had in fact eaten no canned meat, and the attending physician denied that there was any evidence of ptomaine poisoning.

There have been cases where meat bearing the federal inspection marks was alleged to have been condemned as unwholesome by city or local authorities. Usually the fact is that the meat was sound at the time of being inspected and marked by the federal inspectors and that the unwholesome condition arose afterwards. Everybody knows that meat is liable to spoil, and no inspection can guarantee that it will remain wholesome until consumed.

These instances are sufficient to show that credence should not be placed in published reports reflecting upon the meat inspection. The regulations are based not only upon the knowledge and experience of the bureau staff, but upon the advice of high scientific authorities outside of the department. The persons making up the inspection force are carefully selected through civil service examination, and their work is closely supervised. One class of employees consists of veterinarians who are graduates of certain recognized colleges and who have a thorough knowledge of animal diseases and their relation to human health. Other employees are chosen because of their expert knowledge of live stock, meats, sanitation, packing house processes, etc. There are seven supervising traveling inspectors who visit the various stations from time to time, unannounced, and investigate the methods of carrying on the work. In this way it is extremely unlikely that inefficiency or corruption could remain undetected very long. In a work of such magnitude carried on by so many people, however, it is too much to expect absolute perfection. All men are liable to occasional errors of judgment, and in a force of 2,500

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Payable \$5.25 per acre cash, balance in ten annual payments. The tract is nearer Kansas City and Mississippi Valley markets than any other Carey act project. Land free from brush and stone, and soil will average 50 feet in depth. Altitude, 4,050 feet; climate best in State; rainfall 16 inches; crops, all grains, alfalfa, sugar beets, vegetables and fruit; no alkali. Local markets for everything. No agents employed and no commissions paid. Farmers wanted, not speculators. For particulars write,

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100,000 Fruit, Dairy and Poultry Farms in Missouri \$2.50 per acre and up. For full particulars ask Mo. State Immigration Commission, Springfield, Mo.

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also 1/4 section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

people there may even be a few who are incapable or unworthy. But even if it should happen on rare occasions that meat which should be condemned is passed, the amount is such an infinitesimal part of the entire quantity that it does not affect the value and integrity of the service as a whole. The large amount of meat actually condemned is good evidence of the care and thoroughness of the inspection.

There is, however, a real and serious danger to the public from uninspected meat, and almost half of the meat consumed in this country comes within that class. The federal authority does not reach the business done entirely within a state, and the people must look to their state and local authorities to protect them against the danger from that source. One result of the federal inspection is to cause the diversion of diseased and suspicious-looking animals to the uninspected establishments where they are slaughtered for the local market. Many cities have an inspection service, but very few have an adequate force, and the inspection often consists merely in the examination of meat as offered for sale in the markets, when it is usually impossible to detect disease, the evidence of which may have been removed with the viscera or organs. As a rule sanitary conditions are very bad at uninspected slaughter houses. In order to provide real protection against diseased or unwholesome meat a competent veterinary and sanitary inspection at the time of slaughter is essential. There is great need for supplementing the federal inspection with state and municipal inspection.

BUYING SEED CORN.

The question of seed corn that will grow is one that is uppermost in the mind of every farmer who raises corn. It is too important to put off and we, therefore, direct the attention of our readers to the advertisement of G. D. Sutton Company which appears on page 19. This company, recognizing the unusual conditions of the present year, make the offer to ship seed corn on trial, subject to test. The varieties sold in this offer are Favorite White, Improved Boone County White, Reid's Yellow Dent and Improved Leaming. This corn has been grown, gathered and cured under proper conditions. The assurance which good seed corn gives a crop for the coming year should be sufficient inducement to purchase. Additional particulars may be had by writing to the G. D. Sutton Company, Department D, Mason City, Ill.

320 ACRE FARM for sale: 270 acres in cultivation, 300 acres under fence and cross-fenced into a half dozen different fields, 30 acres good land to be put into cultivation, 300 acres of entire body, clear of stone, and a self binder, mower or gang plow can be operated over this amount. Small living creek runs through farm, but don't wash land, two fine living springs and fish pond with plenty of fish, well at house, bearing orchard for family use, good two-story frame house with six big rooms and hall, front and back porches, house is well painted and in best of repairs, fine stone-wall cellar 12x20 feet, frame smoke-house, frame barn 50x50 feet with hay track, there are also cow sheds, granary, machine sheds, chicken house, blacksmith shop and other outbuildings. The buildings are on main state road, two miles from railroad station, but farm adjoins village which has general store, roller flour mill, blacksmith shop, post office and new schoolhouse with eight to nine months school each year. Have daily mail, and telephone in house, good neighborhood and healthy location, can see dozen other good farms from this one. This land will produce 60 to 90 bushels of corn per acre, 25 to 40 bushels of wheat, 50 to 80 bushels of oats, 2 to 2 1/2 tons of timothy hay. This choice farm is in a high state of cultivation. 170 acres of this land, valued at \$100 per acre will pay 3 per cent interest. This is the best improved and watered grain and stock farm in this locality. Can furnish warranty deed and abstract. Taxes paid to date. Will give possession at once. Very best of reasons for waiting to sell. Write me about this farm. Price \$50 per acre. Two-thirds cash and good terms on balance. Claud D. Bunyard, Salem, Dent county, Mo.

LAND OPENING!

The beautiful Jaritas Valley in New Mexico is opening for settlement.

4,000 acres of fine, smooth, IRRIGATED land; every acre within four miles of El Paso & Southwestern Railway. Deep, loamy soil; abundant water; fine climate; reasonable price; easy terms. Water for 1910 crop.

The Jaritas Valley lies close to the Colorado and Oklahoma State lines.

Write today for FREE particulars, map, rates, etc., to

THE JARITAS VALLEY LAND BOARD, Midland Building, Kansas City, Mo.

302 ACRES FINE BUILDINGS EASTERN KANSAS \$7,500

WE acquired recently a 302-acre farm in Elk Co., Kansas, which we are anxious to sell before the 1910 lease takes effect March 1st. We have been holding it at \$9,000, but will sell at \$7,500, 1/2 cash with deed, or 1/2 cash with contract. 1/2 is tillable and has firm pasture with unusually fine water supply. Buildings extra good and worth \$2,000. Write for full particulars. Inland Security Company, 110 Commerce Bldg., Kansas City, Missouri.

MINNESOTA

WELL IMPROVED FARMS FOR RENT OWNER RECEIVING ONE-THIRD CROP

For further information, address GEO. WELSH, Commission of Immigration, Dept. N, State Capitol, St. Paul, Minnesota.

LAND OPENING

IN the famous Arkansas Valley, Colorado. Our irrigation system is one of the best, and our land as fertile as any in Colorado. A reasonable number of tracts now offered at \$30 per acre, with perpetual water right, on terms without interest. This land will quadruple in value within a few years. Close to R. R. and markets. Your railroad fare refunded if you buy. Write for map and booklet. Acts. wanted. MONSON & MALCOM REALTY CO., 300 Kittridge Building, Denver, Colorado.

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address

The Allen Co. Investment Co., Longton, Kan.

IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advances so rapidly in price. Illustrated literature. Write today. Eugene T. Thomson, Crawford Block, Sedalia, Missouri.

SOUTH DAKOTA

FARMERS AND RENTERS—Why not secure one of my farms in Stanley county at \$15 per acre or in Hand county at \$30 before the price has advanced in the spring? JAY P. MORRILL, Palace Building, Minneapolis, Minnesota.

IRRIGATED LANDS

In Colorado, under perfect ditch system. Unsurpassed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R. R. Superior local and foreign market. In tracts from 5 to 1,000 acres, at \$100 and up. ORDWAY LAND CO., ORDWAY, COLO.

CORN, wheat, alfalfa and all other grasses grow to perfection in Northeast Kansas. I have special bargains in 80, 100, 130, 350 and 481-acre farms close to good towns near here. Price from \$45 to \$55 per acre. Dark loam soil, lies just right. Some fine tall timber and improved good enough for anyone. Write for free list. S. M. Strawn, Valley Falls, Jefferson Co., Kan.

Ask your neighbor to subscribe for The Homestead.

WESTERN CANADA

What Governor Deneen, of Illinois, Says About It

Governor Deneen, of Illinois, owns a section of land in Saskatchewan, Canada. He has said in an interview: "As an American I am delighted to see the remarkable progress of Western Canada. Our people are flocking across the boundary in thousands, and I have not yet met one who admitted he had made a mistake. They are all doing well. There is scarcely a community in the Middle or Western States that has not a representative in Manitoba, Saskatchewan or Alberta."

125 Million Bushels of Wheat in 1909

Western Canada sold crops for 1909 will easily bring \$170,000,000.00 in cash. Free Homesteads of 160 acres, and pre-emption of 160 acres at \$3.00 an acre. Railway and Land Companies have land for sale at reasonable prices. Many farmers have paid for their land out of the proceeds of one crop. Splendid climate, good schools, excellent railway accommodation, low freight rates, wood, water and lumber easily obtainable. For pamphlet "Last Best West," particulars as to suitable location and low settlers' rate, apply to Snp's of Immigration, Ottawa, Can., or to the Canadian Government Agent. (5) W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 335 Jackson St., St. Paul, Minn.

Missouri Farms

GRUNDY COUNTY, MO.

Corn, Wheat, Clover and Alfalfa Lands

HIGHLY improved farms of 80 acres up. Good roads, good schools, good markets. All kinds of fruits, natural groves, mild climate. Many Iowa farmers here, all prosperous. Most natural dairy country in U. S. Taxes very low. Easy terms. Low rate of interest. Small cash payments required. Write me, stating about what you want. H. J. HUGHES, 317 WATER ST., TRENTON, MISSOURI.

We Want YOU

We want a good, live man to handle real estate and loans in your vicinity. Farmers make the best real estate men. You can make more money selling farms than farming them.

We Pay BIG Commissions

and start you right. We train you from the beginning so you can assist us in handling real estate and loan deals, and to become independent. You don't have to move to town. Work Saturdays. Write for our FREE Book today. NOW, MORDEN LAND & LOAN CO., Instruction Department, 638 Palace Bldg., Minneapolis, Minn.



Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana in Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit, truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops. NO IRRIGATION SCHEME, 60 inches annual rain fall, beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. J. D. LaBRIE, Gen'l Land Agent Pine Island Mfg. Co., 633 Keith & Perry Bldg., Kansas City, Mo.

IF YOU MEAN BUSINESS

IT WILL PAY YOU TO INVESTIGATE THIS. 160 acres in Sumner county, Kansas, 3 miles from a good town, close to school; 100 acres in cultivation, 60 acres in pasture; good 4-room house, good barn for 6 head of horses, mow, good orchard and grove. Price \$6,000. We have a number of other farms which we can give you possession of March 1, 1910, at \$10 to \$50 per acre. Sumner county is the Banner Corn County in Kansas. BRADSHAW & MOTT, MANHATTAN HOTEL BUILDING, WICHITA, KANSAS.

CHOICE TEXAS PANHANDLE FOR IOWA LAND

WE have some of the choicest land in the heart of Texas Panhandle for cash sale, or will exchange at cash value for Iowa land, income property or merchandise. Can show alfalfa farms worth \$100 per acre near this land. Neighborhood settled with northern farmers. Easy terms for cash. Write today, describing fully what you have.

THE KELLY LAND SYSTEM.

Room H. 17, News Arcade, Des Moines, Iowa.

An Excellent Stock Farm

CONTAINING 330 acres, adapted to blue grass, timothy, clover, corn, wheat, oats and fruits. Good improvements; an abundance of water for stock. Well fenced and cross-fenced with woven wire. Located five miles from Sedalia, Mo. (a city of 20,000 population), and three miles from the Missouri State Fair Grounds. Ideal for blooded stock and general farming. This splendid farm may be had at a bargain. For full description, price and terms, address C. W. Daugherty, Box 10, Sedalia, Mo.



Say, Now, Be Fair About It—

Haven't we all done pretty well the past year? Then let's enjoy some of our success and Get a Low Down Handy Wagon or a set of Low Steel Wheels and make work easier for next year. That's the way to use prosperity. Get our Catalogue.

Havana Metal Wheel Co., Havana, Ill.

STEINBACH'S DUROC DISPERSION.

The Duroc dispersion of Mr. Fred Steinbach, of Yutan, Neb., brought out a good crowd of breeders and a large local crowd, the latter, however, being very slow bidders throughout the sale. The top price was \$175, paid by Mr. E. J. Brown, of Osceola, Neb., for Fancy Maid, Clay Center Belle went to Mr. Herman Briggs, of Clay Center, Neb., for \$160, and Royal Princess to Mr. Lee Hopper, of Neola, Iowa, for \$155. The top gilt was No. 38, a daughter of Model Chief To Be, out of a daughter of Kruger Lad, and went to Mr. Gilbert Van Patten at \$102.50. The herd boars were not sold, as apparently breeders present were not in the market for boar material at present. Mr. Steinbach will offer them privately, as well as a few younger gilts he has. The selling was done by Colonel Callahan. The list of sales at \$30 and upwards is here appended, showing an average of \$69 per head on forty head:

2	Herman Briggs, Clay Center, Neb.	\$160
4	E. J. Brown, Osceola, Neb.	175
5	Lee Hopper, Neola, Iowa.	155
6	Wm. Warnock, Alexandria, Neb.	152
9	Danielson & Samuelson, Osceola, Neb.	150
10	Geo. W. Schultz, Yutan, Neb.	62
12	J. L. Sager, Yutan, Neb.	72
13	Geo. Schmal, Sutton, Neb.	70
14	Same	60
15	G. E. Samuelson, Osceola, Neb.	56
16	C. Blor, Nahoa, Neb.	51

NEARLY 60 YEARS AGO
THE FIRM OF
JOS. ULLMANN

WAS ESTABLISHED AND BEGAN HANDLING

RAW FURS
AND SKINS

IN A SMALL AND MODEST WAY

By LIBERAL DEALING, both with CUSTOMERS and SHIPPERS, we have grown to be the **GREATEST FUR HOUSE IN THE WORLD**, with BRANCHES IN EVERY IMPORTANT FUR MARKET.

If you are not already a regular shipper, **MAKE US A TRIAL SHIPMENT** and we will convince you that it is to your best interest to deal with us.

WRITE FOR PRICE-LIST. Address

JOSEPH ULLMANN,

146-148-150 E. 3rd St., ST. PAUL, MINN.

Desk 4 (Established 1854).

We pay express and charge no commission.



Ship Us Your Hides

WE are tanners of cattle and horse hides. Make Coats double-breasted with braid down the front, best quality of quilted lining, bar buttons and cord, for \$8; tanning included for \$12.50. Line robes with A No. 1 wool plush for \$4; tanning and lining complete for \$8.50; and guarantee all our work. Write for free price list, booklet and shipping tags.

GLOBE TANNING & MFG. CO.
222 S. E. 1st St., DES MOINES, IOWA.

SHIP YOUR
HIDES & FURS

direct to Biggs & Koch and you will get the highest prices and save all commissions. A square deal and quick returns. Full weights and honest grading. One hide, one skin or a car load. No matter whether you are a trader or trapper, farmer or dealer we can do you good and make you money. It will pay you to write us for price list and FREE shipping tags. Fur shipments held separate on request, and your furs back if our returns are not O. K. "Trappers Guide" free to shippers. Write today for catalogue of Trappers Supplies.

BIGGS & KOCH,
954 Liberty St., Kansas City, Mo.
Largest hide and fur house in Southwest. Estab. 1882

BAYER TANNING CO.

Tanners of cattle and horse hides for coats, robes, rugs, harness, lace leather, etc. 40 years' experience; commenced tanning buffalo robes in 1872. You'll get a square deal with no regrets. Write for booklet of information on handling and shipping hides; also price list. Address

105 S.W. 9th St., Des Moines, Iowa.

Cash Paid for
Raw Furs

As New York is the best fur market in America, we can and do pay highest cash prices for hides of Skunks, Minks, "Coons", Muskrats, Opposums, Foxes, Badgers, Wolves, Beavers, Otter, and all fur-bearing animals. We pay all express charges. Write for price list. We also pay best prices for **GINSENG**

BELT, BUTLER CO., 143 Greene St., New York



My Price-List
Tells
The Story

W.R. ADAMS

MAKE A PROFIT ON YOUR FURS

Don't give away 5 per cent of your furs for the sake of selling them. This you do by shipping them to a **Commission House**. They buy your furs at a profit and then deduct 5 per cent commission, really making two profits. Ship to a man who is satisfied with one small profit. I hold all furs shipped to me for approval of my valuation if requested. If my valuation is not satisfactory, I prepay the return Let my remittance prove that I am not trying to get rich in a day or on any one of your next lot of furs. Send at once for my special price list. Address me at 228 Broad Street, Fremont, Neb.



Your
Returns
PROVE
It True.

18	Wm. Warnock	77
19	H. A. Miller, Yutan, Neb.	58
20	Same	60
21	John A. Schultz, Jr.	76
22	W. A. Rankin, Carson, Iowa.	82
23	At. Cross, Guide Rock, Neb.	80
24	J. Abraham, Valley, Neb.	43
25	W. A. Kennedy, Holstein, Neb.	46
26	H. C. Wernimont, Ohio, Neb.	55
27	J. A. Schultz, Jr.	50
28	Wm. Maderow, Beemer, Neb.	70
29	F. M. Buchein, Leocompton, Kan.	50
30	W. A. Rankin	62
31	Ed Bartek, Weston, Neb.	60
32	Geo. Hammond, Manhattan, Kan.	43
33	E. B. Johnson, Mead, Neb.	40
34	W. A. Kennedy, Holstein, Neb.	47
35	Chris Kolk, Yutan, Neb.	34
36	R. L. Comer, Carlinville, Ill.	45
37	Arch. Brown, Waterloo, Neb.	37
38	G. Van Potter, Sutton, Neb.	102
39	E. Danielson, Osceola, Neb.	60
40	Geo. Briggs, Clay Center, Neb.	40
41	L. Engstrom, Mead, Neb.	41
42	John G. Johnson, Yutan, Neb.	44
43	J. T. Armstrong & Sons, Clarks, Neb.	39
45	D. M. Guessford, Sumner, Neb.	33
46	J. G. Johnson, Yutan, Neb.	50

BAXTER & COMER'S GREAT SALE.

The most successful sale of Duroc Jerseys of the season so far was that of Messrs. Baxter & Comer, of Pawnee and Carlinville, Ill., on January 12th. Their great show record helped the sale very much. Breeders and bidders were present from eleven states. Sows bred to B. & C.'s Col., Crimson Wonder III. and McNeil's Model were in great demand. The sows bred to B. & C.'s Col. averaged \$81, to Crimson Wonder III. \$65.80 and to McNeil's Model \$64. Mr. C. O. Anderson of Manhattan, Kan., secured the top of the sale in a daughter of McNeil's Model at \$163. A very encouraging feature of the sale is the fact that most of the sows go to new breeders who are willing to pay good prices for good stuff. Auctioneers Reppert, Igleheart, Buck and Kraschel and Mansfield worked hard and secured good values for the offering. Below we give the list of buyers:

1.	S. E. Eakle, Prophetstown, Ill.	\$ 72
2.	G. W. Bolds, Bryant, Ind.	90
3.	Fred Schweizer, Elwood, Ill.	65
4.	G. W. Connel & Son, Joliet, Ill.	100
5.	J. W. Gillock, Nashville, Tenn.	100
6.	Thos. Johnson, Columbus, Ohio.	150
7.	E. M. Castle & Son, Joy, Ill.	39
8.	H. E. Fisher, Danville, Kan.	144
9.	C. O. Anderson, Manhattan, Kan.	163
10.	Menaugh Bros., Mazon, Ill.	75
11.	E. M. Castle	80
12.	E. R. Simmons, Jerseyville, Ill.	50
13.	N. M. Colwell, Manchester, Ill.	53
14.	C. D. Vogamont	60
15.	Gilliland & Smith, Anburn, Ill.	81
16.	Buck & Miller, Sunny Hill, Ill.	37
18.	Same	43
19.	Henry Horn, Pekin, Ill.	37
20.	F. Bieth & Son, Joliet, Ill.	86
21.	T. W. Logan, LaFontaine, Ind.	72
22.	Droz & Jenks, Fairfield, Iowa.	72
23.	Frank Smith, Chatam, Ill.	80
24.	A. E. Knight, Whitehall, Ill.	155
25.	J. M. Colwell, Williamsville, Ill.	86
26.	Wm. Deane, Manchester, Ill.	67
27.	A. E. Knight, Whitehall, Ill.	63
28.	W. H. Vaumeter, Williamsville, Ill.	64
29.	W. F. Richards, Sturgeon, Mo.	64
30.	C. O. Hudson, Benton, Ill.	70
31.	C. E. Brimmer, Dudley, Ill.	68
32.	J. N. Colwell	50
34.	E. Pancake, Ransom, Ill.	80
35.	J. M. Underwood, Pawnee, Ill.	50
36.	Frank Smith	44
37.	N. M. Colwell	36
38.	Hanks & Bishop, New London, Iowa.	79
39.	J. P. Plummer, Mechanicsburg, Ill.	60
40.	C. D. Hanson, Elwood, Ill.	80
41.	Dan Deets, Belleville, Ill.	67

SUMMARY.

39 head \$3,008; average.... \$77.15

PANCAKE'S GREAT SALE.

The sale of Duroc Jerseys held by Mr. Ernest Pancake, of Ransom, Ill., on January 11th, was very successful. Sows bred to his two great boars, Defender and King Wonder, were in demand. The offering was in fine condition and one of the best of the season. Mr. Fred Schweizer, of Elwood, Ill., secured the top sow, a daughter of Model Wonder, at \$150. Among the good buyers were Messrs. U. A. Deal, C. D. Hanson, Menaugh Bros., L. A. Mooney, A. E. Knight, Buck & Miller and others. Colonels Igleheart, Reppert and Buck handled the sale in good shape. Below is list of buyers and the prices paid:

Lot.	Price.
1. F. Schweizer, Elwood, Ill.	\$150
2. George Berge, Webb, Iowa.	100
3. John Telander, Ransom, Ill.	72
4. Irvin Wilson, Ransom, Ill.	56
5. C. D. Hanson, Elwood, Ill.	75
6. Zimmerman & Case, McNabb, Ill.	110
7. A. E. Hinkley, Galesburg, Ill.	70
8. W. G. Bardolf, Burlington, Wis.	63
9. C. D. Hanson.	75
10. Buck & Miller, Coal Valley, Ill.	52
11. R. K. Kendall, Edelstein, Ill.	69
12. Buck & Miller.	76
13. Hanks & Bishop, New London, Iowa.	115
14. Fred Vaughn, Lyons, Wis.	60
15. W. F. Berge, Ransom, Ill.	72
16. Droz & Jenks, Fairfield, Iowa.	50
17. Garver & Garver, Noble, Okla.	35
18. H. M. Saltzherger, Ransom, Ill.	31
19. Otto Engle, Ransom, Ill.	40

WEIL BROS. & CO., FORT WAYNE, IND.

AMERICA'S GREATEST RAW-FUR HOUSE. Established FORTY YEARS. Exporters direct to all the great Fur Markets of the world. Have you a copy of the 1910 Edition, our



FREE TRAPPERS GUIDE

If not, send for it immediately. We want it in the hands of every Hunter, Trapper and Fur Shipper in America. Our FREE PRICE-LIST. It tells the story of the growth of our great business. Get it before you ship another skin. Located in the center of the Fur Industry, yet not in a large city, our shippers need not help pay the heavy expenses other Houses have. Our World's Newest Medical Discovery BAITs, for all animals. Ask for FREE PRICE-LIST describing them. Get ACQUAINTED WITH US. Send us your address. Do it today. Ask for FREE "GUIDE," PRICE-LIST 6 Tags, Blanks, Envelopes. All promptly mailed without any obligation on your part. You will make money shipping to us. Send a trial shipment and see!



WEIL BROS. & CO. CAPITAL \$500,000. PAID. FT. WAYNE, IND.



LET US MAKE YOU A COAT OR ROBE

Nothing warmer or more serviceable than a Fur Coat or Robe made from a horse or cow hide. Don't pay \$20 to \$30 for a Fur Coat when you can have one made from your own material for one-half that amount.

SHIP YOUR COW OR HORSE HIDE TO US

We will guarantee when you see the finished product and realize the comfort and satisfaction it will give you, that you will not part with it for many times the cost.

WRITE FOR BOOKLET TODAY, GIVING FULL INFORMATION, PRICES, ETC.

COWNIE TANNING CO., 100 Second St., Des Moines, Iowa.



SHIP US YOUR
HIDES

We Are Tanners
Of horse, cattle and all kinds of hides. We'll make your horse or cow hide up into a warm fur coat, robe, rug or mittens. In our process of tanning each hide is made even in thickness, soft and pliable; also moth proof. All our work is guaranteed and is of the highest quality of workmanship. Don't ship a hide until you hear from us. Send a postal now asking for Our FREE Booklet. Tells you about hides, how to care and prepare hides for shipment, with price list on work, etc.

Write Today
DES MOINES TANNING CO.
Dept. A Des Moines, Iowa

Sell Your Fur
In The East

Send your fur where it will bring the most money. The East is the raw fur center. The East is the heart of the raw fur trade, pumping its life blood of dollars all over the world where furs are caught. This paper is full of advertisements from Western fur buyers. But they ALL sell to Eastern dealers. It makes no difference what they say—we repeat it: **THEY ALL SELL THEIR FUR TO EASTERN DEALERS.** We are here in the East. We are in a small town; we have small expenses. We are within a few miles of New York City and the border of Canada—the world's greatest fur markets. Your bank in your own town will tell you we are reliable. Send today—now—for our big free trappers' guide, catalog and fur report. This is different from anything you ever saw. And it costs you nothing but the price of a two-cent stamp to put on your letter.

Corry Hide & Fur Co.,
P. O. Box No. 6827 Corry, Penn.

FURS-WANTED
We want every trapper who reads this to write us at once for our monthly price list. Do it now. We satisfy all who ship to us.
Pember's Hide and Fur House
Drawer 5 Ounwn, Iowa.



The Seed Corn Situation.

To the Editor of The Homestead:

Having spent a lifetime in growing and breeding corn in a limited way with a view to an improvement, while we feel that we have done much in this line there is an abundant opportunity for still further improvement. As stated in previous talks, the first important factor in growing a good crop of corn is good seed, and there can be no good seed without proper care and effort, and these efforts must be directed at the proper time and in the right direction. The best time for the farmer to gather his seed corn is early in the fall, after the crop is sufficiently ripe. At that time the ears can be selected from well-developed stalks. As before stated, we shall maintain that the stalk is the parent of the ear and an ear from a well-developed stalk is better for seed purposes than an equally good appearing ear from a scrub or poorly-developed stalk. Remember that the best is not too good to plant. It is true that many farmers are careful and particular in selecting an animal to improve their herds, which is proper, and yet they are not willing to expend a dollar or

a little extra effort to improve their corn fields, the most important crop of the American farm today.

After many years' experience we are prepared to say that there is no better place to store seed corn than in an ordinary dry cellar, and the best method we have tried is to put it on racks. These racks can be cheaply made out of old lumber, any lumber that will hold a nail. Drive long finishing nails three inches apart each way and on these nails stick the ear. A rack six feet long and six feet high will hold eight or ten bushels and not one ear will come in contact with another. Thus there is a circulation of air and, again, the wind cannot disturb it. The writer has practiced this method for many years and never had a failure. Corn that will germinate 85 per cent is called good seed, but seed that will germinate 100 per cent and a strong, vigorous plant is better. This is the second season that the writer has been located on this farm here in southern Minnesota and within that period we have succeeded in growing two ears of corn where only one grew before. Good seed of an improved variety has done the business. We don't want to be considered an alarmist, but, as stated in prior talks, we predict a seed corn famine next spring throughout a portion of the corn belt. The big freeze on the 12th to 14th of October froze the grain and destroyed the vitality of the embryo of the plant, and after the germ has been killed either by cold or heat, no amount of care and drying will remedy it; it is dead, and cannot be brought to life again. It will be remembered that the climatic conditions were peculiar up to the 12th of October; there has been no trace of a frost when, from the 12th to the 14th of October, mercury registered nearly down to zero. The corn had the appearance of being thoroughly ripe, but the stalk was yet full of a sap. The freeze, followed by warm, humid weather, soured the sap in the stalk and killed the germ; that is the situation in a nutshell. In all our fifty years' experience we never saw the same conditions before. We do not agree with the idea that good seed corn can be selected from the crib following the conditions that now present themselves. While it may be true that with great care ears can be selected that will germinate and yet not a strong, vigorous plant, we shall maintain that good, reliable seed corn at \$5 per bushel is cheaper than damp, foul, degenerated seed is for nothing.

A. L. Goddard.

Methods of Handling Fodder.

To the Editor of The Homestead:

Corn stover forms one of the cheapest as well as the most widely wasted forages produced on corn-belt farms. Thousands of tons are each year left standing in the field to finally lose a large per cent of the leaves and husks and a great part of the value of the

FROM CORN STALKS
TO SEED BED—3 ACRES
AN HOUR

This Harrow Completely Discs and Harrows a strip 8 Feet Wide. When the Team Travels a Mile, an Acre of Ground is Ready for Seed.

NAYLOR 2-ROW
DISC and SPIKE
HARROW

You can't afford to overlook this great harrow. There's nothing made that will put the soil in better condition. The double row of discs cultivate every inch of ground, cutting and turning with their side-thrust almost as deep as the plow furrow, and the spike teeth follow to break clods, pulverize and level. Hundreds of farmers are using it on stubble and fallow ground. They secure as good seed beds as if they plowed the ground, and save nearly all the labor.

A Great Tool on Corn Ground

It cultivates deep or shallow. The spike teeth can be given any angle and are held to their work while they pulverize the ground. A single passage cultivates completely an 8-foot strip, ready for the drill or lister. Levers convenient to the seat give perfect control. Drawn with a chain—no tongue or trucks. Two-row principle holds everything steady—no wobbling or trouble in turning.

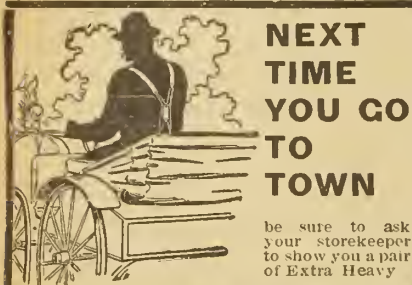
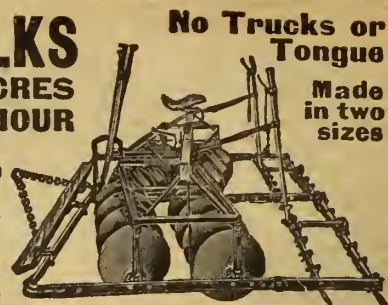
Write for Full Description and Introductory Offer

We have a special introductory offer to introduce this great harrow into any locality. It will pay you to take advantage of it. Write today. A postal will do.

NAYLOR MFG. CO., La Grange, Ill.
Box 142

Ask
For Our
Introductory Offer

If
You Are a
Dealer, Write Us



**NEXT
TIME
YOU GO
TO
TOWN**

be sure to ask
your storekeeper
to show you a pair
of Extra Heavy

PRESIDENT SUSPENDERS

Just give them a try-out as a work suspender. You'll find them so much more comfortable than the rigid-back kind you have been wearing and last so much longer, that you will never want to wear any other kind.

The sliding cord in the back takes all strain from your shoulders, allows freedom of motion, and prevents chafing.

Maker's guarantee on every pair—SATISFACTION, NEW PAIR OR YOUR MONEY BACK. If your storekeeper doesn't have the Extra Heavy Weight, made especially for farmers, we will send you a pair postpaid, upon receipt of price, 50c.

The C. A. Edgarton Mfg. Co.
SHIRLEY PRESIDENT SUSPENDERS

804 Main Street, SHIRLEY, MASS.



HOG RAISERS, ATTENTION!

Is it worth 4 cents per head per year to have your hogs free from lice and other profit-eating parasites? Send me your name and let me tell you how my RUBBING POST will do this. Cheapest and most effective method in use. No labor required. Works the year 'round. Not dangerous to heavy brood sows. Write for price and description.

S. B. WASSON,
413 S. Washington Street,
PEORIA, ILLINOIS.

BEST OF ALL

FREE government land now open in the richest of the west. Grand River Valley, Colorado and Utah, is world famous—such is the richness of its silt laden soil. Wealth of farmers is indisputable evidence. Highest priced land in the world is in this valley. An Iowa colony is forming. Yourself and your sons will never face another opportunity like this. You can obtain free information from JOHN B. McCARTY LAND CO., IMMIGRATION AGENTS, 704 Clapp Block, DES MOINES, IOWA.

WANTED

TENANT with college education to open and take charge of farm in North Dakota. For particulars call or write to F. J. LUGER, 173 Western Avenue, Minneapolis, Minn.

FIFIELD GASOLINE TANK HEATER
ABSOLUTELY indestructible from freezing. No ashes, no sparks; heats largest tanks. FIFIELD SANITARY CISTERN FILTER cleans dangerous and dirty water. Cost is small. For circular about both, address C. C. Fifield, Grand Junction, Ia.

TAN HIDES

SEND us your hides and we will tan them and make your robes, coats, mittens or rugs. All work guaranteed. Water soft and maul proof. Cash paid for hides and furs. Sioux Falls R. & Tanning Co., Sioux Falls, So. Dakota.

SEED CORN—Write for descriptive circular on Yellow Dents. W. H. Wilson, New Carlisle, Ohio.



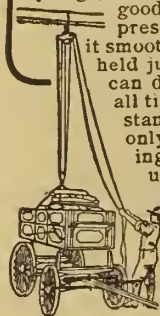
Louan of Richmond A. R. 333 as a four-year-old produced 420 pounds of butter fat. She is a member of a noted Guernsey family and the property of Mr. John Clark, of Whitewater, Wis. See page 52.

Saves Its Own Cost on Any Farm in 20 Minutes

There are a thousand and one things a Burr Automatic Safety Tackle Block can do. You alone can do all the heavy lifting about your place with our block—shifting wagon boxes, stretching wire fences, moving stones, logs, sick or injured animals, etc., and the saving of hired help will pay for it on one job.

The Burr Automatic Safety Tackle Block

is the only rope block made that does the work of a chain block. It is the only rope block made without teeth, wedges, springs, etc., to wear, tear and chew up good rope. This block actually preserves good rope—keeping it smooth. Wet or greasy rope is held just as tight as dry. You can depend upon this block at all times and under all circumstances. Yet the prices are only 70c up to \$4.25, according to the capacity of 600 lbs. up to 5,000 lbs. Lasts a lifetime. Saves dollars every week. Write for particulars. Learn what it means to own one.



BURR MFG. CO.
148 Vialduci CLEVELAND, O.

that the snow does not bother so badly.

When it comes to real convenience nothing can compare with the practice of shredding. The fodder must be dry and crisp to do the best work, but when it is finished you have a feed excelled only by the best quality of hay. The grain is separated and you can feed it in any quantity desired and greatest of all you have the most desirable of bedding from the waste. It possesses very high absorbent qualities, is cut into short lengths and for this reason makes the manure easily handled. We have found it to be the best plan to shred into the barn or a specially prepared shed where the stover can be kept dry and away from the snow. It is in the best possible shape for inside feeding and the palatability is increased by shredding if the fodder is dry and has been well cured. Have a specially constructed fork to handle it, with five or six times about ten or twelve inches in length. It is good feed for outside feeding if the stover can be kept from becoming wet and unpalatable. At all events feed early in the season. Have the fodder dry at shredding time and keep the shredded stover dry. Don't overfeed and the appetites of the cattle will remain keen throughout the winter.

Roy F. O'Donnell.

Story county, Iowa.

How would you like to sleep on a cement floor this winter? Do not ask the cows or the hogs to do it. Give them a thick blanket of straw on top of the cement.

ADVERTISING NOTES.

The Schofield Potato Planter has had "eighteen years of success" in the practical work for which it is intended. The manufacturer offers it for special prices from factory to farmer by announcements in our columns. Satisfaction is guaranteed. Our readers should write for catalog H. Address Schofield & Co., Mrs. Freepert, Ill. See advertisement on page 7.

As will be noted in the advertisement on page 36, Mr. S. M. Strawn, of Valley Falls, Kan., has for sale a number of farms on which very low prices will be quoted. These farms are located in Jefferson county, Kansas, in a section in which there is rich soil and a certainty of excellent crops. Lists of these farms can be had by writing to the address given above.

The J. D. Tower & Sons Co., 40th St., Mendota, Ill., have done wonders for the development of the great corn industry of the country. For many years they have been manufacturing and introducing the famous Tower system of surface cultivation, which has not only made millions of dollars for farmers, but has improved the quality and largely increased the yield of this important grain. Our readers should note the announcement of this firm in our columns, and should write for their illustrated free "treatise on corn culture." See advertisement on page 24.

KIMBALL ORGANS.

The advertisement of the W. W. Kimball Company, which will be found on page 32, presents an opportunity to buy a genuine Kimball organ at factory prices and to pay for it at even the very low and easy terms of \$2.50 per month. A lot of useful information may be had by writing for the special catalog and price list, for which address the W. W. Kimball Company, 368 Kimball Hall, Chicago, Ill.

IMPORTANCE OF CORN GRADERS.

The Hero corn grader is advertised on page 13 of this paper. No one needs to be told that the excellence of the crop depends upon uniformity of seed. There is no other way to secure uniformity except by the use of a seed corn grader and the advertisers advise us that the Hero is the best, most inexpensive and most easily operated grader on the market. It is sent thirty days on trial, as mentioned in the advertisement. Send for their book giving all the information concerning the grader and seed corn breeding. Address Mr. C. A. Paulson, 2839 Colfax Avenue South, Minneapolis, Minn.

A NEW DITCHER IDEA.

Throughout the entire West the problem of how to make ditches at a reasonable cost is one which puzzles many minds. Perhaps one of the best solutions that has yet been presented is the Buckeye traction ditcher, a machine by which from 100 to 150 rods of ditch may be cut per day at a perfect grade and at a single passage of the machine. The Buckeye ditcher is operated by steam or gasoline power and may be bought with or without the power as desired. It is built in sizes to suit the buyer. Complete particulars, description and prices may be had by asking for catalog "W," for which address Sales Department, Buckeye Traction Ditcher Company, Findlay, Ohio.

A KANSAS FARM HOME.

On page 36 of this issue, there will be found an advertisement of the Inland Security Company which states that the advertisers have for sale an improved 302-acre farm that is to be sold immediately. The owner wishes to dispose of the farm before March 1st and in order to do so will make prices that cannot fail to prove attractive to any farmer who wants to buy a good Kansas farm, either for a home or as an investment. The buildings are extra good, the water supply is fine and of the very best. Half of the land is tillable and the remainder is fine pasture land. For full particulars write to the Inland Security Company, 1110 Commerce Bldg., Kansas City, Mo.

NEW ENLARGED SEED CATALOG.

The Guthrie-Lorenz Seed Company called attention to their 1910 complete catalog of farm, garden and flower seeds in a new advertisement on page 18 of this week's issue. The Guthrie-Lorenz Company, of 431 7th St., Des Moines, Iowa, would like every reader of this paper to have a copy of their new catalog which is larger and more extensive than ever before, and shows by illustrations and prices the large and standard seeds carried by them. For a two-cent stamp they will send a full packet of Magnus tomato seeds, together with the catalog. The Magnus tomato is one of the most reliable tomatoes known and this packet will give unusual satisfaction in productiveness. The quality of these seeds fully meets the high standard this firm have established for their seeds.

AN INTERESTING AUTOMOBILE STORY.

The Willys-Overland Automobile Company, of Toledo, Ohio, have issued a very interesting book much different from the ordinary book published by automobile manufacturers. It is a story of how John N. Willys stepped into the topmost place in motordom in two years. It tells how a factory has grown like magic to a pay-roll of 4,000 men and a daily output of thirty carloads of automobiles. John N. Willys was a dealer in automobiles. There came to him, in the regular way, a solicitation to buy an Overland car at the price then of \$1,250. He was indeed pleased with the car, as it was the simplest, sturdiest and smoothest-running car that he had ever had the pleasure of examining. He secured a contract for the sale of this car in his town and sold the cars like wildfire. Each car sold with a call for many more like it. Old and new motor car owners came by the score to deposit advance money—attracted by the Overland's matchless simplicity, but the factory did not deliver the cars to Mr. Willys so he could turn them over to his customers. Then Mr. Willys went to the manufacturers and found them on the verge of receivership. The factory had been able to produce these wonderful cars, but could not finance the making of them in the face of the 1907 panic. Mr. Willys saw an opportunity and took over the plant. The factory soon became too small and tents were

erected and the manufacture of the Overland automobile was carried on in tents adjacent to the old buildings. During the first year cars, yet the demand was not more than one-half supplied. This is only a part of the interesting narrative portrayed in the book mentioned above. More about it can be learned from the page advertisement of the Willys-Overland Automobile Company, Toledo, Ohio, which will be found on page 5 of this issue. In writing to the company use the coupon in the advertisement.

BUCKBEE SEEDS.

One of the old reliable seedsmen of the West, and one whose catalogs are always welcome, is Mr. H. W. Buckbee, of Rockford, Ill. The catalog for 1910, which is just off the press, is no exception to the rule of excellence that has prevailed in all the previous ones. It is, however, an improvement in that the engravings are magnificent, having been sketched from nature by special artists.

The book contains illustrations and descriptions of the finest varieties of seeds and plants and in addition cultural instructions which no practical or amateur gardener can afford to be without. For more than thirty-nine years Mr. Buckbee has been engaged in the production of farm and garden seeds and during that time he has built up a world-wide reputation for the high grade of seeds sent out. The catalog mentioned is, of course, for the purpose of advertising the Buckbee seeds, but it is most valuable for other reasons and it should be a part of the library of every farmer. It is sent free of any charge and may be had by forwarding a postal card request to Mr. H. W. Buckbee, Rockford, Ill. See page 19.

GOOD BOOK ON MANURE.

Do you know how many tons of manure 1,000 pounds of live stock produce in a year? Do you know how much manurial value is represented by \$10 of meadow hay, clover hay, wheat bran, corn, etc. Do you know the relative value of sheep, calf, hog, cow, horse and hen manure per ton and what each is worth on the average? Do you know how to prevent loss in the value of horse, sheep, pig, poultry and other manure? Do you know how much it costs to get a ton of manure spread on the fields, under average farm conditions, and how much value each ton represents in increased crops? These are matters of vital importance to every farmer and we ask these questions here merely to suggest how much valuable knowledge a man can get without effort if he keeps awake to opportunities. Because these questions and many more of like importance are all answered in a clear, concise and interesting way in a free book that is being offered our readers by the American Harrow Company, 148 Hastings St., Detroit, Mich. This book is called "The Value, Care and Application of Manure," and is by that high authority and interesting writer, Robert Gibbons. The book is free because these people manufacture and sell direct the great "Detroit-American" Manure Spreader, and they want farmers to know what they lose by not making the best use of the manure available. A postal to this company at the above address will get one of these instructive books by return mail. As for prices and terms on a manure spreader and a spreader that is far above par, this firm will not disappoint the most exacting buyer. It is well to remember, too, that an investigation will not entail any expense or obligation and may lead to a big saving and great satisfaction. See advertisement on page 31.

TIMELY FENCE ADVICE.

The engravings which appear herewith give a better idea than could be written of the methods employed in the manufacture of the Apex brand of woven wire fence advertised on page 10, manufactured by the Janesville Barb Wire Fence Company.

Fig. 1 shows the hold fast crimp in the wire at the point where the joint is made. Fig. 2 shows the ends of the stay where sections passing the line wire from above and below. Fig. 3 shows these two sections clatched with a double link run of line wire in the hold fast crimp. Fig. 4, shown in this article, illustrates the most important feature of this joint—the one that solves the problem of easy fence erection and permanent form and service. The dotted lines indicate the direction of the line wires when the fence is being erected on hilly ground. It will be seen that while the stay wires remain erect, parallel with the posts, the line wires adjust themselves to any angle without the least buckling of the fence. The stay wires cannot slip on the line wires on account of the hold fast crimp and the whole fence fabric is rendered elastic and at the same time permanent in form by the peculiar adjustability of the swinging joint. This joint is patented and is found only in the Apex fence. The manufacturers are endeavoring to procure statistics on the matter of farm fences and as an inducement offer as a free gift a ten-foot tape measure in a nicked case to every farmer who will write stating the number of rods of fence on his farm. Not only this tape measure, but other very interesting information may be had by

writing to the Janesville Barb Wire Company, 201 South Franklin St., Janesville, Wis.

A NORTHEAST MISSOURI FARM BARGAIN.

Northeast Missouri land returns to the owner as good returns on the investment as any land in the corn belt, yet this land is selling lower than land that does not show the returns on a like amount invested. In this issue Mr. Isaac A. Novinger, of Kirksville, Mo., offers a splendid 240-acre farm that lies only three miles from Kirksville, the county seat of Adair county. The improvements on this farm are good, consisting of a good, new, six-room house, a good, large barn built three years ago, good cellar under smoke house, hen house, good corn crib, a good six-acre orchard of mixed fruit, four acres in pasture, balance in cultivation and all is fenced and cross fenced. The price on this farm is made as low as possible for quick sale. If interested see Mr. Novinger's advertisement on page 36 and write him, mentioning this paper.

MODERNIZING FARM IMPLEMENTS.

There has been no time in the memory of man when the value of manures was not thoroughly appreciated and some crude efforts made for its distribution over the land. From time to time, however, the attention of inventors has been turned to this homely subject and, although the problem was a difficult one, the result has been perfected machines which seemed to leave little to be desired in the way of manure spreaders. The Grinnell detachable wagon-box manure spreader, which is advertised on page 18 of last week's paper, stands in this perfected class. It is the only wagon-box spreader that will save the wagon box, as well as the trucks. It may be used as a spreader, and by detaching the patented gearing it can be converted into a regular wagon. It stands in a class by itself in this respect. It is also as thoroughly effective in its work as any spreader can be. For complete details, together with prices, address the Chase Manufacturing Company, 39 Main St., Grinnell, Iowa.

AN EXTRAORDINARY CYCLONE.

Cyclones do many strange things. You have heard tales of how they drive things into solid wood or tree trunks, how heavy timbers are carried miles and then plunged into the earth and partially or wholly buried; how one building is destroyed and another close by is uninjured. These are what might be called regular freaks of the storm, but did you ever have a cyclone that builds up, instead of tears down—that improves the looks of things by visiting the neighborhood—that saves work and money rather than causes a loss? We have heard of just one such cyclone and that is the Cyclone line of ornamental fences and steel farm gates. They improve the appearance of any place, are cheaper than wooden fences and gates, because they last longer and need no repairs. The Cyclone Fence Company, Dept. 121, Waukegan, Ill., offer to send you, free, a book telling about this wonderful cyclone. You will find it interesting reading. See this company's advertisement on page 11.

CREAM SEPARATOR BARGAINS.

There is no use reiterating the statement that the cream separator is a farm necessity. That goes without saying. The only point in question now is what kind of a cream separator to buy, and that question has been settled by the big advertisement of Sears, Roebuck & Co., which occupies page 14 of this paper. The subject of the advertisement is the Economy Chief cream separator, a machine which, after having undergone all the hardest tests and having been from time to time more fully perfected to meet the requirements, now stands without a superior in the whole line of cream separating machines. It will bear comparison with any other make. It will do the work as easily, as quickly and as thoroughly as any machine, and in addition to these important facts it sells at a price that is right down to rock bottom basis. The three sizes mentioned in the advertisement are suited to practically all the demands of the farm and the highest-priced one of the bunch, with a capacity of 600 pounds, is sold for \$42.50. Not only that, but it is sent on a liberal test of sixty days; then if it is satisfactory it may be paid for. If it is not and does not answer every possible requirement that any machine can be asked to do it can be boxed up and sent back to the factory and payment will be made for the trouble and expense incurred. It looks as though this were a splendid offer and one that should inspire confidence in the machine. Note the coupon and order blank in the lower left hand corner of the advertisement; cut it out and send it to the address there given.

A GREAT SEED BOOK.

To anybody interested in seed, whether one seeking to plant a few flowers around the place, an amateur contemplating a "back yard" garden, or whether a florist or a truck gardener of extensive operations, Gregory's seed book for 1910 cannot fail to interest. Without doubt it is one of the finest seed books ever issued. It is profusely illustrated and contains a world of valuable and interesting information. The subject matter covers a great range, expert advice being offered as to the sowing, planting, care and protection of flowers and vegetables. The publishers invite inquiry and will be pleased to answer any question not made clear in the book. "Gregory's Honest Seed" are well named, for they are seed that grow. Risk cannot be taken with seed. Messrs. Gregory & Son every year make over 2,000 tests of the vitality of both flower and vegetable seed and thousands of dollars worth are thrown away as not being up to their high standards. Great economy can be shown in the careful selection of seed. Every year there is an untold waste of time and labor in preparing for planting ground into which is sown seed, which simply rots in the ground. About the only safe guide the buyer of seed has is the reputation of the firm from whom he buys. Messrs. J. H. Gregory & Son's seeds have been famous in every hamlet in the land for over fifty years, on account of their freshness, purity and reliability. The line is varied, and whether it is anything in flower or vegetable seed you will find what you want in Gregory's stock. To secure a copy of their handsome new seed book, send your

name and address to Messrs. J. H. Gregory & Son, Marblehead, Mass., and they will gladly furnish a copy. Look up their advertisement on page 18 and write them, mentioning this paper.

THE STERLING IMPLEMENTS.

On page 24 there will be found an advertisement containing the announcement of the Sterling Manufacturing Company, of Sterling, Ill. This advertisement is of interest to all farmers because it calls attention to farm machinery that is absolutely essential in the economical and profitable conduct of the farm. The two machines illustrated are not by any means all that the firm manufacture, but they are especially attractive. The disk harrow illustrated is one of the very latest improved and most valuable of machines of its character. All of the old draggy objections have been removed so that it is a perfect cultivator answering every purpose and as light a draft as any disk harrow can possibly be. All of the Sterling implements are illustrated in the catalog and prices will be sent to all readers of this paper who write for them to the Sterling Manufacturing Company, Sterling, Ill.

NORTHERN-GROWN SEED.

Everybody interested in larger and better crops of vegetables, potatoes, grain and corn should make calculations as to his requirements in seeds at once and should secure his supply as much as possible direct from the seed growers. The Farmer Seed & Nursery Co., 336 8th Ave., Faribault, Minn., whose advertisement appears in another column of this paper, have made it their specialty for the last nineteen years to produce improved and new varieties of vegetables, grain, corn and potatoes from carefully-selected seed stock. On their Faribault seed farms many new varieties have been originated which have become standard market sorts. Such carefully northern-grown seeds insure in the first place, the best vitality, an early maturity and a large, typical crop, which satisfies the most critical market gardener and farmer. See advertisement on page 18 of this issue.

A FINE CENTRAL MISSOURI STOCK AND GRAIN FARM.

Mr. C. W. Daugherty, of Sedalia, Mo., is offering to our readers 330 acres of as fine land as is found in central Missouri. This farm is located five miles from Sedalia, Mo., three miles from the Missouri State Fair grounds, and is an ideal stock and grain farm. It is especially adapted to tame grasses, such as blue grass, timothy and clover. The rich black soil in this section makes it especially valuable as a corn, wheat or oat growing farm. An abundance of water for stock and the good improvements makes this one of the farms that the purchaser can go onto at once. The entire 330 acres are well fenced and cross fenced with woven wire fence. This farm can be had at a bargain if taken soon and land in this section of Missouri is a good buy as an investment or for a home. See page 36 for Mr. Daugherty's advertisement and address and when writing him kindly mention The Homestead.

A SIMPLIFIED HARROW.

Improvements are being made in harrows just the same as in other agricultural implements. The trouble with a great many improvements is that they bring complications and therefore are not real improvements. The Vaughn Flexible Harrow is the limit of simplicity in harrows. It embodies practically every good feature in its predecessors, yet has no bolts, no nuts, no adjustment



THE VAUGHN FLEXIBLE HARROW.

levers and really no mechanism. The teeth can be changed from straight to skanting or vice versa by a simple process. The teeth are one-half inch square and are so arranged that no tooth follows another. The harrow can be rolled up in a small package with the teeth all inside for shipping or storage. Our readers should write today for information concerning this wonderful and useful piece of machinery. Address the Vaughn Manufacturing Company, 102 Main St., Jefferson, Wis. See advertisement on page 40.

CHOICE SEED OATS AND CORN.

Mr. Geo. Gregory, of Ralston, Carroll county, Iowa, announces that he can fill orders in quantities up to carload lots of Reid's Yellow Dent corn and Champion and Swedish Select oats. Mr. Gregory has been sowing seed corn and seed oats for a number of years and from varieties which grow well in all parts of the corn belt. He has grown the varieties of grain mentioned above with splendid success and recommends them highly to the corn-belt farmer who would improve the quality and quantity of his small grain crops. Mr. Gregory has grown the Champion oats for six years and in that time has introduced it on many farms in his own community and throughout the corn belt, and he has yet to hear of any dissatisfaction from those who have grown it. One of the staff of this paper visited Mr. Gregory last summer during harvest and spent considerable time in the fields which Mr. Gregory has set aside for seed. He found as fine a field of sixty acres of Champion oats as he had seen after traveling several days through the best oats country in Iowa. Mr. Gregory makes it a point to use nothing but clean seed and rotates his crops regularly. The result is his fields are clean and weeds are rarely if ever given a chance to cast seed. The Swedish Select, which is a later oats than the Champion, is newer on the farm, but promises to be a heavy yielder. We would advise those of our readers who are in the market for good seed corn or seed oats to take up correspondence with Mr. Gregory at once. We recommend his seed as being clean, vigorous and of high germinable quality. See page 19 and kindly mention this paper when writing.

Ask your neighbor to subscribe for The Homestead.

DAY BY DAY

AGRICOLA

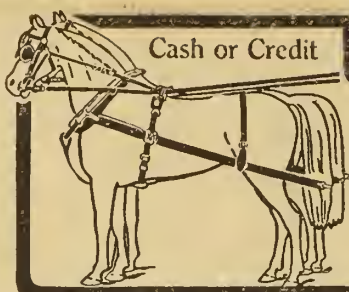
Before increasing the postage rates on newspapers and magazines in order to reduce the deficiency in postal revenue, why not wipe out the free rates on free seeds? The seeds are no longer worth buying with public funds, no longer worth distributing at public expense, and no longer worth planting after the farmer gets them. It is a graft from one end to the other.

I like to feed hogs a little hay in winter "for their stomachs' sake," as an ancient writer would put it were he not a Jew and hog-hater. Hay furnishes bulk. The hog needs something else than highly-concentrated food. And, by the way, I like to have this hay clover hay, but ordinary mixed hay is better than none.

Some of our readers may not be aware that there is a National Dairy Show and of the great magnitude of it. It costs from \$25,000 to \$30,000 to hold each show, and four have been held so far. The last show was held last November. The sum of \$1,142 was used for educational features, and \$2,604 for entertainment. Looks as if one great object is to have a good time together.

There are compensations in calamities. Farmers who found their corn too soft to be merchantable were forced to feed it, and learning to feed corn instead of selling it is one of the best lessons a farmer can have. Selling corn is selling the farm piecemeal. You have the warranty deed and the fellow who buys your corn and feeds it on his own farm has the cream of your farm to spread on his own. This makes his farm rich and yours poor. And in the balancing of accounts, as is the farm, so is the farmer.

At the apple show in Spokane last November there were enough apples exhibited to cover more than five acres of ground, had they been spread one apple deep. The descendants of



Cash or Credit

SAVE 25% TO 50% ON HARNESS \$23.00

FREIGHT PREPAID

\$23.00 buys our Leader No. 53 Farmers 1½ inch Team Harness delivered at your railroad station. If it is not the best value you ever had, send it back and we will refund your money. The above harness is a genuine bargain—a splendidly made 1½ inch Team Harness. All of the best grade Oak Tanned Leather. We are the largest manufacturers of harness selling direct to the user. We issue a 100 page catalog, the finest ever gotten out in the harness line. It is full of money saving offers. We want to convince you there is no better harness made selling at any price. Write for free catalog today and compare our prices with your home dealer.

R. M. KNOX, Pres., Western Harness & Supply Co. 613 Main Street, Waterloo, Iowa.

Mother Eve inherited the apple desire and have made the curse a blessing.

The manager of our sweet corn canning factory while on a trip saw corn from his own factory for sale in a store. He asked the price and was told it was fifteen cents per can. He offered twenty-five cents for two cans and it was accepted. The meat of this kernel is that his factory received a little less than six cents for the corn, and the farmers who furnished the corn were paid a trifle more than one cent for their share. Will Secretary Wilson look into this? And yet, it is not proven that the consumers pay too much. Did the farmer or the factory receive too little? There are too many hands and mouths for it to pass through before it reaches the "ultimate consumer," but no one knows how to stop this.

The wonderberry boom has so nearly collapsed that the promoter advertises it this year under the new name of sunberry.

The air-cooled gasoline engine has a strong claim to consideration for farmers who wish to use it for short periods and use it often, especially in freezing weather. But I have no fault to find with the hopper-style water-cooled. It takes but a little water and when you are done using the engine the hot water is just what is good to use for making pig slop. It will drain out perfectly and quickly and it is an easy way to get warm water.

Chief Forester—that was Pinchot is undoubtedly a good man. Lincoln was a good man. Pinchot reminds me of Lincoln, not by resemblance, but by contrast. Lincoln was content to wait for history to pass judgment, saying if he came out right falsifiers could not make him wrong, and if he were wrong ten archangels swearing he was right would not make him so.

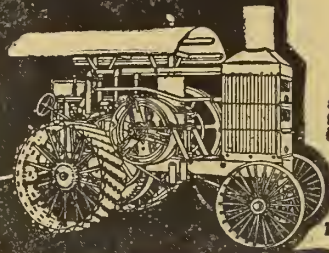
I heard a farmers' institute lecturer declare that there are microbes in kisses. This shows that even microbes know what is nice.

Man was made to mourn, but the scheming brute has fixed things up so woman relieves him of most of that business.

A Philadelphia publication boasting of more than a million and a quarter circulation says that two or three weeks ago a recent graduate of the Iowa Agricultural College paid cash for 160 acres of land in Nebraska at

A Kerosene Plowing Engine

WILL SAVE MONEY FOR THE LARGE FARMER



Our Plowing Engine does the work of 18 to 20 horses, and eats nothing when standing idle. It is also suitable for discing, seeding, harvesting, threshing, corn shelling, shredding, grinding, road grading, hauling, etc. Hundreds in successful operation.

The Ideal Farm Power—Oil Cooled—Frost Proof—Uses Kerosene, Gasoline or Alcohol

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HART-PARR CO., 228 LAWLER ST., CHARLES CITY, IOWA



Planet Jr.

reduces your labor; increases your crops

A Planet Jr farm or garden Cultivator often does three to six times the work of one man with ordinary implements; and cultivates so thoroughly that you get more and better crops. Strong and substantially built. Fully guaranteed.

New No. 14 Planet Jr. Double-Wheel Disc-Hoe, Cultivator and Plow has three adjustable discs on each side, a pair of new-idea pronged cultivator teeth that run shallow next the row, steels for plowing, furrowing, and covering, and a pair of leaf-lifters.

No. 8 Planet Jr. Horse-Hoe and Cultivator plows to or from the row. A splendid furrower, coverer, hiller and horse-hoe, and unequalled as a horse-cultivator. Write today for the 56-page 1910 Planet Jr catalogue of 55 different tools. Free and postpaid.

S. L. Allen & Co Box 1105D Philadelphia Pa

\$112 per acre and congratulated himself on his bargain. To show the soundness of the youngster's judgment the writer says that a man down in Arkansas, where new ideas are not so well advanced, obtained \$1.53 per bushel by feeding his corn to Duroc Jersey hogs, which he had bought ready for fattening. One short and ugly word applies to this story. He did not buy the hogs, he stole them, or "half stole" them, as Agricola once heard Secretary Wilson say was necessary to make money buying and feeding steers when the packers were working under "a gentleman's agreement."

"Mrs. Wiggs of the Cabbage Patch" was sensible. She "buried her troubles in the bottom of her heart and shut down the lid."

The Old or Young Sow.

To the Editor of The Homestead:

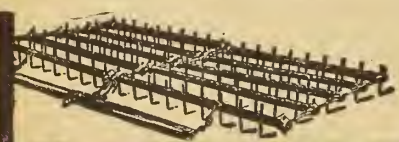
I have often been asked which in my opinion are the best for breeding purposes, young or old sows. For a number of years I have closely observed men who were succeeding in the business of breeding swine and

have also followed the methods employed by those who have not met with success. After noticing the conditions that are to be found on the farms of those who have had lots of trouble and many failures in raising hogs and after twenty-three years of breeding myself, I am convinced that neither all young nor all old sows are the most profitable. My experience has, of course, been confined to the Poland China breed, but I have always been interested in observing the manner in which other breeders selected their brood sows and I find the same rules follow in one case as in another.

I find where the breeder depends entirely on young sows the number to the litter and the size and quality of progeny are decreased, but with proper feed and exercise not so much harm is done. On the other hand, when only or mostly old sows are kept the average number of pigs to a litter is greater, but the number lost is also much larger. An old sow requires much more room, more feed and much greater care. The profit, therefore, is smaller, so that in general I have concluded to follow this plan. Keep the best sows in the herd and after they have raised their pigs, separate the best of them and keep them for the next year. It is well to keep one or two more than are really needed. Have them farrow about a month earlier than the other sows. If they don't all farrow in time, sell the latest. The next year we have sows from those litters to use for breeding. They will be thirteen months old and in my opinion older sows will not be needed that year. Young sows may be used the third year, they will be about a year old; never use sows under that age if raising hogs for profit. If one has an old sow which just suits it will be better to keep her until it is known what her pigs will be. Then if we do our part we can depend upon it, there will be music in their squeals when we are loading them into the wagon if pork continues to sell at the prices now offered. R. F. Brunker.

Ridgeway, Wis.

Nothing helps one to "stand up and take notice" like being spanked first so he cannot sit down. The bastinado thoroughly applied is also a fine preparatory circumstance if you wish to "lead him with a tow string." If you merely wish him to "stand hitched," hamstring him.



know

THE TRUTH ABOUT HARROWS
READ WHAT USERS SAY ABOUT
VAUGHN HARROWS

FLEXIBLE

Excels anything in the way of a harrow I have ever seen.

W. B. Burns, Williamsburg, Va.
I can do more work with two horses with this harrow than I did with four with any other and do it better.

C. F. Clark, Sacramento, Calif.

The Vaughn Flexible excels others because it is self-adjusting, self-cleaning, and is scientifically constructed for the work.

It contains not a bolt—not a nut. Cannot get loose in any part or come to pieces.

By hitching team to one side, teeth draw straight; by hitching to the other, they draw slanting.

But you are interested in knowing all about a harrow that does double the work of the ordinary harrow, and does it better with half the power.

Write for full information about how to get a Vaughn, with a guarantee, to

VAUGHN MANUFACTURING CO.
102 Main Street. JEFFERSON, WISCONSIN.

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PERFECT POTATO PLANTING

Every farmer knows the importance of proper potato planting. Here's a machine that does it perfectly. Has none of the faults common with common planters. Opens the furrow perfectly, drops the seed correctly, covers it uniformly, and best of all, never bruises or punctures the seed. Send a postal for our free book.

SAVE HIRED HELP

Iron Age (Improved Robbins) Potato Planter



No Misses
No Doubles
No Troubles

BATEMAN MFG. CO., Box 148 P, GREENLOCH, N. J.

When writing to advertisers please mention this paper.



Jumbo Jr., twice a winner of first prize at Nebraska State Fair and one of the principal sires represented in the forthcoming Duroc sale of Mr. T. J. Current, at Hildreth, Neb., on January 27th. See announcement on page 62.



Angora Goats Used in Clearing Land.

To the Editor of The Homestead:

The first importation of Angora goats to the United States was made in 1849 from the Province of Angora in Turkey. These attracted so much attention that several more importations were made during the following years. At the present time Angora goats are bred in every state and territory in the United States, including Alaska. There are large flocks in Texas, New Mexico, California and Oregon, and of late years they have been distributed throughout northern and eastern states on account of their ability to destroy brush, weeds, etc.

In their nature as browsers, preferring to feed on twigs, leaves, briars,

turing with Angoras most of the brush will be dead. It generally takes two years to make a perfect job, as hardier varieties of brush, such as willow, alder and hazel, will usually sprout from the root the second year and there will also appear a rank growth of weeds, thistles, etc. This growth will be greedily eaten by goats and after the second year's pasturing this land will in most cases be covered with a dense growth of grass and can then be used to pasture other stock or be brought under cultivation.

The number of goats required to an acre depends on amount and kinds of brush to be destroyed. If there are patches of grass among brush, young stock or sheep can be pastured with them, but where there is little or no

holstered furniture. It is also used in manufacture of ladies' dress goods called brilliantines and mohair crepons. These goods are noted for their durability and their luster and fine coloring qualities.

There are now about 5,000,000 pounds of mohair used in the manufacture of various articles in the United States, of which amount about one-half is imported from foreign countries. The present duty on the imported mohairs is twelve cents per pound. At present much of the mohair grown in the United States is of a low grade, as many of the so-called Angoras have been produced by crossing the common or Mexican goat with the Angora. The fleece from the first and second cross is not very valuable, but the higher the grade the more valuable the fleece. There is at present a large demand for extra long hair, say twelve inches and longer. I have recently received a letter from a large manufacturer in New York City doubling his former prices for mohair twelve inches long and longer. He is now paying \$2 per pound for twelve-inch hair and up to \$6 per pound for twenty-inch hair. This long hair is used in the manufacture of wigs, doll hair and various other articles. The price of mohair varies with quality; low-grade hair brings from fifteen to twenty-five cents per pound, while the best is worth from thirty to fifty cents per pound for hair from six to ten inches long.

The American Angora Goat Breeders' Association was organized in 1900 for the purpose of encouraging the breeding of them in their purity. The association created a force of inspectors whose duty it was to inspect goats for registration upon application and recommend to the secretary. Any goat fulfilling standard requirements was registered. The number of goats thus registered was 40,000. The registration books were closed against all such inspections on December 31, 1901. Since then only offspring of registered parents are eligible to registry. At this writing there have been nearly 70,000 Angoras registered on the books of the association. The association has at present a membership of over 600 breeders scattered throughout the United States and Canada.

The meat of the Angora goat is excellent and is much more largely used in all large markets than is generally supposed, and it is most wholesome and nutritious. The unwarranted prejudice against the meat is rapidly becoming a thing of the past. American agriculturalists are not long in realizing the intrinsic value of any class of live stock when this is once reasonably demonstrated, but it is curious to note how little the general public knows about Angora goats. Woven wire makes the best fence for Angora goats. A fence three feet high will hold the goats, but it is best to have them four feet high where pasture is also to be used for other stock. I

SHEEP.



SHROPSHIRE EWES

BUYING registered bred ewes pays if you get the largest and most typical, which raise rams good enough to build a trade. We offer young bred ewes that will make you money. Photos and full description. Won champion ewe, champion flock, recent Chicago International. Near Des Moines.

CHANDLER BROS.,

Chariton, Iowa. Shrewsbury, England.

IOWA'S PIONEER BREEDERS AND IMPORTERS OF

SHROPSHIRE SHEEP

CHOICE IMPORTED and home-bred registered ewes. Bred to imported rams of the best quality; also rams. Prices reasonable, considering quality.

Daniel Leonard & Sons, Corning, Iowa.

Ewes for Sale

THE IOWA STATE COLLEGE is offering for sale 50 head of pure-bred and grade ewes, mostly Shropshires, at very reasonable prices. Address

DEPARTMENT OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

Pine Ridge Shropshires One thousand ewes bred to the very best imported rams money could buy. These rams are prize winners, personally selected from the best English flocks last July. Prices reasonable. Write for free booklet, "Hints on Sheep Raising." Address owner, L. M. Hartley, Pine Ridge Farm, Salem, Ia.

FIFTY SHROPSHIRE EWES

MOSTLY two years old. We wish to sell to make room for more of different breeding, in order to hold our ram trade in this locality. Who can use the bunch at a great discount? Will sell any number. D. M. Norton, Sanborn, Iowa.

HOME OF THE OXFORD DOWNS. Flock in its forty-eighth year, and finds the Oxfords to be the money makers in the sheep family. Both sexes for sale. T. B. Evans, Geneva, Illinois.

Registered Shropshire Rams and Ewes For Sale. The best of breeding and quality. Best imported rams at head of flock. Willard Miller, Anita, Iowa.

CLOSING OFF SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. W. C. Frazier, Atlantic, Cass Co., Iowa.

have heard of several complaints where they had trouble in having goats get their heads through the fence and become fast by the horns, especially where square-mesh style with the stays six inches apart were used. In selecting fence it is best to either have the mesh so close that it is impossible for goats to get their horns through, such as diamond mesh, or, if square style is used, it is best to have the stays twelve inches apart, so that if goats should get their heads through they could easily get out again. Angora goats do not require a high fence, but one that is tight near the ground to prevent them from crawling through or under. Angora goats require about same feed and care as do sheep during winter and at kidding time. Good clover hay, corn fodder and such other feed as is generally fed to other stock will keep them in thriving condition during winter. If they can have run of a brush pasture they feed on twigs and bark and will get considerable feed and at the same time will destroy much brush during winter season.

The profits resulting from the Angora goats are from the following sources: Their annual increase in numbers, land they will clear and the fertilizing effect upon it, annual fleece of mohair they produce and sale of their meat and furs.

Wisconsin. George A. Philippi.

The agricultural department has for some time been engaged in the investigation of the subject of the preservation of eggs with the view of putting the official stamp of approval on some particular method. In the course of this work it has been discovered that the amount of moisture held by the air surrounding the eggs in storage is a very great factor in their preservation, and an effort is now being made to arrive at some mechanical means of regulating the air supplied to the eggs being held for later consumption.



ANGORAS EXHIBITED BY MR. PHILIPPI AT NORTHERN WISCONSIN FAIR.

weeds, etc., Angora goats have become very popular throughout northern Wisconsin and Minnesota where there are large tracts of land from which valuable timber has been cut and which is now covered with a dense growth of brush sprouts and briars of all kinds. Angora goats have proven the cheapest and best means of helping to convert this brushy land into pasture and later to cultivated areas. They will trim every leaf and twig to a height of six feet or more, as they will stand on their hind feet and get astride small saplings and bend them to the ground and strip every twig and leaf before left by them, and as new sprouts appear they are again eaten, so that after one season's pas-

grass it is best to pasture only goats the first year. Land cleared of brush, etc., with help of goats is much more fertile than where all of brush, etc., has been cut and burned, as their manure is scattered over the soil, as luxuriant growth of grasses that follow show. Angoras can also be profitably used in many older farming sections of the country to run in pastures with other stock to feed on weeds, thistles, etc., not eaten by other stock and prevent them from going to seed. Angoras are especially fond of Canada and common bull thistles, and as there are localities where Canada thistle has become a serious pest, especially in many eastern counties of Wisconsin, Angoras would be useful in helping to keep them under control.

The pure-bred Angora goats are very beautiful and attractive animals. Their long, pure white, silky fleece, called mohair, is largely used in the manufacture of plush for passenger and street car seats and other up-

Feed Corn Cobs At Big Profit!

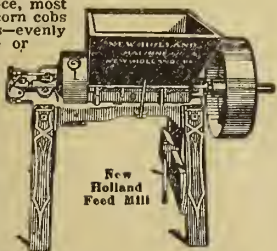
CORN COBS are now widely recognized as a very essential ingredient for stock feed. Do not waste this valuable portion of your crop any longer.

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The NEW HOLLAND, though low in price, most effectively grinds corn cobs and all small grains—evenly mixed meal; fine or coarse; for table or stock. No "filling up," no needless friction; adapted to any kind of power.

Write to-day for book on Feeding Grain and the next time you go to town call on a NEW HOLLAND dealer. If you can't find one, we will supply you direct and give you an extended free trial.

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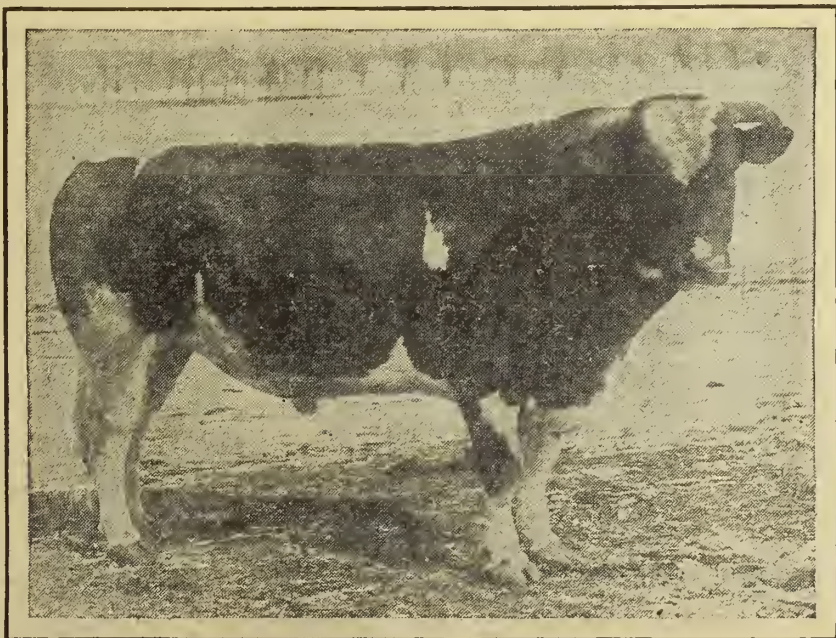
BOWSHER

(Sold with or without elevator) CRUSH ear corn (with or without shucks) and GRIND all kinds of small grain. Use Conical Shape Grinders. Different from all others.

LIGHTEST RUNNING. (Our Circular Tells Why.) Handy to Operate. 8 Sizes—2 to 25 h. p. One size for wind-wheel use.

Also Make Sweep Grinders; both Geared and Plain. E. N. P. Bowsher Co. South Bend, Ind.

FEED MILLS



PAUL CALAMITY DE KOL 31095.

The sire of twenty-one A. R. O. daughters. His dam, Calamity Jane 3d, made official records of twenty-eight pounds of butter in seven days, 113.15 pounds in thirty days and 219.41 pounds in sixty days. His sisters, Ditcher Calamity, made official records of 32.40 pounds of butter in seven days and 128.86 pounds in thirty days. This splendidly-bred bull has been in use at the Monona Farm, Madison, Wis., for several years. The Monona Farm managers have just finished making official records on Indi Surprise De Kol 62699 which made 22.65 pounds of butter in seven days and Pense Clothilde Johanna 105987 which made 16.72 as a three-year-old.

Dates Claimed for Live Stock Sales.

ABERDEEN ANGUS CATTLE.
 Mar. 10, M. H. Donohoe, Holbrook, Iowa.
 Mar. 11, Wm. Cash, Williamshurg, Iowa.
 Mar. 16, Breeders' sale, M. A. Martin, Mgr., Wall Lake, Iowa.
 Mar. 17, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 12, W. W. Andrews and J. B. Robinson & Co., Muryville, Mo.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 12, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 7, James Williams, Mareus, Iowa.
 June 8, Stanley Pierce and John Evana, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Palmyra, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 20, C. M. Russell, Carroll, Iowa.

SHORT-HORN CATTLE.
 Feb. 9-10, C. R. Steele, Ircton, Iowa.
 Feb. 17, G. H. Burge, Mt. Vernon, Iowa.
 Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Mar. 15, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 April 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
 Apr. 28, Henry H. Kuper, Humboldt, Neb.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 16, N. A. Lind, Rolfe, Iowa.

HEREFORD CATTLE.
 Jan. 31, D. S. O'Leary, Iowa City, Iowa, sale at West Liberty, Iowa.
 Feb. 10, Dispersion sale, Table-backed Herefords, W. W. Wheeler, Harlan, Iowa.
 Mar. 1, 2, 3, C. A. Stannard, Emporia, Kan.
 Mar. 14, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 April 16, James E. Logan, Kansas City, Mo.

DUROC JERSEY SWINE.
 Jan. 31, Olson Bros., Woodward, Iowa.
 Feb. 1, John H. Tryon & Sons, Lyons, Neb.
 Feb. 1, W. R. Bennett, Madrid, Iowa.
 Feb. 1, Isenbarger Bros., Battle Creek, Ia.
 Feb. 1, Geo. Schmal, Sutton, Neb.
 Feb. 2, F. B. Butterfield, Ankeny, Iowa.
 Feb. 2, Thomas Gossard, Ponca, Neb.
 Feb. 2, Balmat & Son, Mason City, Iowa.
 Feb. 3, Edmonds, Shade & Co., Kingsley, Ia.
 Feb. 3, Geo. H. Purdy, Mason City, Iowa.
 Feb. 4, H. L. Cantine, Quimby, Iowa.
 Feb. 7, Whitehall Farm, Yellow Springs, O.
 Feb. 7, John Goddard, Harlan, Iowa.
 Feb. 8, S. E. Eakle & Sons, Prophetstown, Ill.
 Feb. 8, W. A. Foust, Dayton, Ohio.
 Feb. 8, S. W. Stewart, Kennard, Neb.
 Feb. 9, C. E. Walden, Washta, Iowa.
 Feb. 9, Henninger Bros. & Smith, Geneseo, Ill.
 Feb. 9, O. S. Larson, Logan, Iowa.
 Feb. 9, Ira Jackson, Tippecanoe City, Ohio.
 Feb. 9, J. B. Davis, Fairview, Kan.
 Feb. 9, C. E. Walden, Washta, Iowa.
 Feb. 10, Geo. B. Buck & Geo. L. Miller, Sunny Hill, Ill.
 Feb. 10, S. E. Morton & Co., Dayton, Ohio.
 Feb. 11, Mahan Bros., Osborn, Ohio.
 Feb. 11, O. E. Osborn, Weston, Iowa.
 Feb. 11, E. J. Brown, Osceola, Neb.
 Feb. 12, A. F. Hager, Avoca, Iowa.
 Feb. 17, Frank Elder, Green, Kan., at Clay Center, Kan.
 Feb. 17, A. W. Lamb, Albion, Neb.
 Feb. 18, A. R. Barnes, Petersburg, Neb.
 Feb. 21, W. C. Cameron, Herman, Neb.
 Feb. 22, R. L. Wilson, Chester, Neb.
 Feb. 23, G. Van Patten, Sutton, Neb.
 Feb. 24, Bardwell & Barnard, McHenry, Ky. (Sale at Louisville, Ky.)
 Feb. 24, Geo. Briggs & Son, Clay Center, Neb.
 Feb. 25, Con McCarthy, Henderson, Neb.
 Feb. 26, T. J. Link, Winterset, Iowa.
 Mar. 9, Lien Bros., Platt, S. D.

BEPPERT'S WESTERN SALE CIRCUIT.
 Feb. 14, E. Z. Russell, Blair, Neb.
 Feb. 15, M. S. Moats, Missouri Valley, Iowa.
 Feb. 16, C. W. Huff, Mondamin, Iowa.
 Feb. 17, Jno. R. Tupper, Woodbine, Iowa.
 Feb. 18, W. L. Hull, Logan, Iowa.
 Feb. 19, E. B. Ryan, Neola, Iowa.

POLAND CHINA SWINE.
 Feb. 1, E. Gritters, Hull, Iowa.
 Feb. 2, W. J. Crow, Webb, Iowa.
 Feb. 3, Farver Bros., Ochevedan, Iowa.
 Feb. 3, John B. Lawson, Clarinda, Iowa.
 Feb. 3, C. L. Thuermer, Fostoria, Iowa.
 Feb. 3, John H. Fitch, Lake City, Iowa.
 Feb. 4, D. C. Lonergan, Florence, Neb.
 Feb. 4, James Cockerton, Whiting, Iowa.
 Feb. 4, F. G. Paul, Marshalltown, Iowa.
 Feb. 9, G. W. Seffert, Lucas, Iowa.
 Feb. 9, C. W. Phillips, New Sharon, Iowa.
 Feb. 9, Thos. F. Walker, Alexandria, Neb., at Fairbury, Neb.
 Feb. 9, C. W. Phillips, New Sharon, Iowa.
 Feb. 10, W. H. Cooper, Hedrick, Iowa.
 Feb. 10, H. B. Francisco, Hastings, Neb.
 Feb. 11, R. W. Halford, Manning, Iowa.
 Feb. 14, J. H. Hitch, Geneva, Neb.
 Feb. 15, O. N. Remington, Tekamah, Neb.
 Feb. 16, Cavett Bros., Phillips, Neb.
 Feb. 16, Wm. Lentz, Ankeny, Iowa.
 Feb. 17, E. D. Keasy, Wiota, Iowa.
 Feb. 18, C. C. Polly, Whiting, Iowa.
 Feb. 24, Ruelhel Bros., Marathon, Iowa.
 Feb. 24, Mastodon Poland Chinas, W. W. Wheeler, Harlan, Iowa.
 Feb. 25, M. P. Hancher, Rolfe, Iowa.
 Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Feb. 26, J. W. Pfander & Sons, Clarinda, Ia.

BERKSHIRE SWINE.
 Feb. 11, J. W. Ogle, Ames, Iowa.
 Feb. 13, W. R. Holt, Falls City, Neb.
 Feb. 13, John C. Miller, Harlan, Iowa.

CHESTER WHITE SWINE.
 Feb. 8, M. J. Desmond, Waterville, Iowa.
 Feb. 21, J. H. Stewart, Dickens, Iowa.

DUROC JERSEYS AND POLAND CHINAS.
 Feb. 4, R. A. Jefferies & Sons, Rock Rapids, Iowa.

JACKS AND JENNETS.
 Feb. 24, J. W. Finley, Higginsville, Mo.
 Mar. 1 and 2, L. M. Monsees & Sons, Smithton, Mo.
 Mar. 2, Petty Bros., Sedalia, Mo.

PERCHERONS.
 Feb. 8-9, H. G. McMillan & Sons, Rock Rapids, Iowa, sale in Sioux City, Iowa.
 Feb. 17, James Loonan and T. F. Glenn, Waterloo, Iowa.

FRAT AND JARNESS HORSES.
 Feb. 1, 2, 3, 4, Breeders' sale, Company, B. Minton, L. C. W. Harts Mgr., Arrow Rock, Mo., Ill.

Dates Claimed for Live Stock Sales.

HOLSTEIN-FRIESIAN CATTLE.
 Feb. 8-9, Henry C. Glissman, Omaha, Neb., sale at S. Omaha, Neb.
 Feb. 19, Gay Stock and Dairy Farm, Madison, Wis.

FIELD MEN.
 M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 Fred S. Larkin, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address 2525 Erskine St., Omaha, Neb.
 A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
 E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

A recorded English Shire stallion is offered for sale on page 48 of this issue by Mr. G. Touney, of Lawler, Iowa.
 Some excellent big-type Poland China bred sows, either sired by or bred to his 1,000-pound boar, Miller's Tecumseh, are advertised for sale by Mr. H. Pritchard, of Wisconsin, Neb., on page 60.

The principal event for the month of February in Duroc Jersey circles will be the brood sow sale of Mr. Geo. H. Purdy, which takes place at Mason City, Iowa, February 3d. See advertisement on page 61 and send for copy of catalog.

The advertisement of Mr. Joseph Bouska, of Calmar, Iowa, offering thirty choice Duroc Jersey bred gilts for sale appears on page 62 of this issue of The Homestead. They are bred to a heavy-boned hog, one of the best that could be found, that will make a 1,000-pound hog at maturity. Many of the gilts will weigh 300 pounds and every one of them will be guaranteed.

Mr. E. D. Keasy, of Wiota, Iowa, claims February 17th as the date on which he will make a public sale of Poland China brood sows. The sale will be one of particular interest because it will include something over half a hundred animals whose breeding is beyond question and whose individual merits are right in line with the most popular demands. Additional details will be given in later issues of The Homestead.

Breeders of Duroc Jersey hogs who are looking for brood sows with large litters will be interested in the consignment of Mr. George H. Purdy, who sells at Mason City, Iowa, February 3d. A list of his brood sows shows that last season one sow farrowed nine, one ten, one eleven, two twelve, two fourteen and two seventeen. This is a record that is hard to beat. Better get a catalog by writing to the address named on page 61.

Mr. O. A. Olson, breeder of Duroc Jersey hogs, at Madrid, Iowa, and owner of the great herd boar, Golden Model, advises us that he will consign eight head of Golden Model sows to the Olson Bros. sale to be held at Woodward, Iowa, January 31st. In the lot are five litter sisters to Mr. Olson's show herd for 1909, with which he made such a splendid winning at the state fairs. These sows will have been bred to Advancer 1st, and they will be, therefore, attractive from every point of view. Buyers will do well to remember the date of this sale. See page 49.

The advertisement containing an announcement of the Dunham Percherons presents a new statement this week that will interest Percheron buyers. The Oaklawn Farm has a large importation of both stallions and mares due to arrive on February 10th. These, with the excellent lot already on hand, make such a collection as must enable any buyer to be suited. The Dunham Farm has been headquarters for Percherons for more than forty years, and it has distributed over the United States some of the best specimens of the breed. The record of the past, however, does not eclipse the promise of the future. Buyers of good horses will do well to read the advertisement and send for catalog, for which please address Messrs. W. S., J. R. & B. Dunham, at Wayne, Ill. See advertisement on page 53.

On February 3d, Messrs. Farver Bros. will hold their annual Poland China bred sow sale on their farm, one mile east of Ochevedan, Iowa. They are selling forty head—twenty tried sows, five fall gilts and fifteen spring gilts. They are the daughters of such great boars as Up To Date Kind, he being one of the best sons of Up To Date; Model's Tecumseh, Our Dodo and Pawnee Prize, King Dodo and Big Surprise. They are bred to Up To Date Kind, Our Dodo and Pawnee Prize. This is strictly breeding of the big type, and none could be better. While the breeding is good, the individuals are also good. They have the size combined with quality, and at the present prices of hogs these 600 and 700-pound sows, bred the way they are, should certainly command big prices. Messrs. Farver Bros. have been in the Poland China breeding business for some time, and by using the very best boars that they could buy, and keeping the very best dams, they certainly have got an extra good herd of Poland Chinas. Parties attending their sale, with the expectation of buying good ones, will not be disappointed in the offering. Those attending the W. J. Crow sale, at Maclay, Iowa, on February 2d, can take the Rock Island and go to Sibley, at which place they will have free entertainment at the Osceola House at Messrs. Farver Bros.' expense; take the Rock Island at Sibley the next morning, go to Ochevedan, and there they will find free accommodations at the farm, which is one mile east. Sale will be held in a heated tent; free lunch at noon.

Col. J. A. Benson will be the auctioneer. For catalog address Messrs. Farver Bros., Ochevedan, Iowa, and mention The Homestead. See advertisement on page 48.

On February 23th, at Higginsville, Mo., Mr. J. W. Finley, of that place, will sell the best string of jacks and jennets he has ever offered. Mr. Finley has taken much care in selecting this offering and our readers will find here a string of Mammoth jacks that will please the most critical. Send for Mr. Finley's catalog and kindly mention this paper when doing so.

Mr. G. H. Burge, of Mt. Vernon, Iowa, is reserving all of his Short-horn bulls for his February 17th sale. The advertisement appears on page 53 of this issue. Mr. Burge wishes it to be understood that he has the sires and dams of all the bulls he is offering. This is not a closing-out sale, but is the disposal of some very choice bulls weighing from 1,400 to 1,800 pounds.

Messrs. Taylor & Jones, breeders and importers of draft and coach horses, wrote under date of January 13th, saying: "We have now in our barns some of the best Percheron, Shire and Belgian stallions that we ever owned. We want to show them to your readers. We are making special low prices in order to make room for the importation now on the ocean. We have been making a number of sales of good stallions and are well prepared to supply those who are critical about their purchasing." See advertisement of Messrs. Taylor & Jones on page 58 of this paper.

On February 8th, Mr. M. J. Desmond, of Waterville, Iowa, will hold a closing-out sale of Chester Whites. The offering will consist of twenty-five bred sows, that are extra choice with good bone and length and plenty of finish. They are all bred to extra good boars for March and April farrow. Mr. Desmond's herd was established in 1889 and his breeding operations since that time have been with a constant aim to build up a good herd. This is a closing-out sale, as other business needs his attention and he is obliged to discontinue the breeding of Chester Whites. See advertisement on page 48.

Messrs. M. G. Arnold & Son, of Strawberry Point, Iowa, breeders of Poland China swine, write as follows regarding their stock: "Our herd is in fine form; sales have been very good. Mr. A. R. Fox, of Elberon, Iowa, selected twenty-seven head from our herd of Poland Chinas. Mr. Jos. Graham, of Princeton, was here and selected a herd boar out of our great sow, Cedar Orient, and many other sales too numerous to mention. We are offering our herd boar, On Up, for sale, also our Holstein herd bull, as we cannot use them longer. This bull is as well bred as any in Iowa, being a grandson of Colantha 4th and one of the best individuals we ever have seen; has good disposition and color and is a No. 1 breeder. Here is a chance for some breeder to get a No. 1 bull for less than his value."

Mr. C. F. Shaffer, of Wellman, Iowa, who maintains one of the best herds of Poland China swine and Short-horn cattle in the Hawkeye state, writes: "Inquiries are coming in fast, and sales were never better. I am at present offering twenty-five superb gilts bred to my great herd boar, S's Meddler. This great boar is a full brother to Vexer, the boar that won sweepstakes at the Iowa State Fair in 1908. I am also offering thirty June and July males and gilts that are fine, and thirty fall pigs of both sexes. My pigs have heavy bone, good length, jet black coats of hair, with fine bead, ear and nose. I am also offering for sale some fine young bulls six to fourteen months old of Scotch extraction. They are of the low-down, beefy, blocky kind. All deep reds. I have shipped stock to all parts of the United States, as well as to Canada and Old Mexico." See advertisement on page 60 and write for prices and description, to Mr. C. F. Shaffer, Wellman, Iowa.

The advertisement of the Percheron Importing Company, of St. Joseph, Mo., will be found on page 53 of this issue. This company is under the management of Mr. Chas. R. Kirk, whose barns, previously located at Chariton, Iowa, have been a center from which hundreds of splendid Shires, Percherons and Belgians have been distributed. The company write that they have recently sold quite a number of horses. Among these was a fine imported dapple gray Percheron to Mr. Chas. Ilaffie, of Rulo, Neb. Mr. A. J. McCrea, of Maysville, Mo., and a number of his neighbors took a black three-year-old Percheron stallion that had a record as a first-prize winner. A company headed by Mr. George H. Talbert, of Muscatoh, Kan., took a handsome three-year-old. Among other buyers were Messrs. James Overfield, of Hiawatha, Kan.; Chas. L. Henman, of Halls, Mo., (who took a handsome chestnut Belgian that was a first-prize winner at the Interstate Horse Show); J. W. Deiter, of Maysville, Mo., and Arda Itali, of Maysville, Mo. The barns of the company are conveniently located near the Union Depot and our friends who contemplate buying are advised to correspond with them or visit the Percheron Importing Company, at St. Joseph, Mo.

Messrs. R. A. Jefferies & Sons, of Rock Rapids, Iowa, will hold their Poland China and Duroc Jersey bred sow sale on their farm, five miles east of Rock Rapids, Iowa, on February 4th. In the sale will be forty head—twenty Durocs and twenty Poland Chinas. Among them will be five tried sows, fifteen yearlings and twenty spring gilts. Of the Poland China offering the fall yearlings are the daughters of Grand Expansion; the gilts are the get of Tecumseh Dude, he by Doris Tecumseh, and Midwood Perfection by Winning Perfection, and they are bred to Demonstration, he by Rusticator by Corrector Chief. The Duroc offering are the daughters of Maxwell Orion, he by Manley's Orion, and they are bred to R. A.'s Model, he by Bems Kruger. His dam was Nellie by Crimmon Model. Messrs. Jefferies are also going to sell four grade Shires coming two years old; one of them is a filly, and three geldings; also one registered Shire stallion, three years old, and two Short-horn cows, both safe in calf to a Scotch bull. All of the above stuff will be sold without reserve. The sale will be held in a heated tent. Col. J. A. Benson is auctioneer. There will be free hotel accommodations at Rock Rapids for

visitors, also free accommodations to and from the farm from Rock Rapids. For catalog address Messrs. R. A. Jefferies & Sons, Rock Rapids, Iowa. See advertisement on page 59.

Mr. M. P. Hancher, breeder of Short-horn cattle and Poland China hogs, of Rolfe, Iowa, is offering some good Scotch bulls for sale in his advertisement that appears on page 52 of this issue. They are sired by Carter's Choice Goods and are out of imported cows of the choicest breeding. Mr. Hancher can also supply Homestead readers with some Big Four Poland China fall pigs of either sex. Write him your wants.

Mr. W. W. Vaughn, of Marion, Iowa, in furnishing copy for his new advertisement appearing on page 53 of this issue, writes: "We are now offering for sale some of the best young bulls that have ever been bred at Wildwood. One Scotch bull, twenty months old, out of Imp. Claudia 4th, is exceptional in uniformity of width and thickness of flesh. Other calves, red in color, and from ten to twenty months of age, are Scotch and Scotch-topped in breeding. The use of the two herd bulls, Headlight by Imp. Red Knight, and Brawith Lad by Morning Joy, makes it possible for us to offer bulls and heifers not related. We will make prices especially attractive on lots of this kind to parties intending to start a herd of Short-horns. We invite the inspection of prospective buyers regarding the individual merit of our stock. We will be glad to meet parties at the train, show them the entire herd, and ship stock from either Marion or Cedar Rapids if a purchase is made."

DUROC JERSEY BRED SOWS FOR SALE.

On page 48 of this week's Homestead Messrs. A. Lentz & Son, of Pierson, Iowa, are offering twenty-five head of choicely-bred Duroc Jersey sows for sale bred to farrow in March, April and May. These sows are bred in the purple and they are all right. They are pricing these sows where anybody can afford to buy. Write them at once about these sows and mention The Homestead.

THE WINTERMUTE AND STEPHENSON SALES.

Mr. J. H. Wintermute, at Blockton, Iowa, sells a splendid collection of fifty head of Poland China brood sows, ten of which come from the herd of Mr. Fred Rood, on January 25th. On January 26th, the day following, Mr. J. A. Stephenson, of Mt. Airy, Iowa, sells an equal number of strictly high-class gilts. We wish to call particular attention of our readers to the fact that these sales contain a good deal of blood common to both herds, that they have size and quality so much in demand, and that the sales will be easily attended by those from a distance. The opportunity which the combination offers in one which should not be neglected by either farmer or breeder who finds himself in need of really high-class Poland China breeding stock. Do not forget dates.

WARNER'S DUROC AND SHROPSHIRE SALE.

Mr. D. H. Warner, Tippecanoe City, Ohio, will sell his entire herd of Duroc Jersey swine and his flock of Shropshire Down sheep at auction on February 5, 1916. The offering consists of fifty-two head of bred sows and fifteen fall boars and fifteen fall sows. The sows are sired by Red Beat by Kant Be Beat, Correct Kruger by Kruger's Corrector, Pilot Wonder III., of Orion Chief and Pilot Wonder breeding, and they are bred to the above boars and Fruitlawn Colonel by King of Colonels. There will be fifty-eight sheep, six rams and fifty-two bred ewes. The ewes are imported or out of imported rams and are bred to imported rams. This will be a good opportunity for someone to get some good sows or ewes at a very reasonable price. The advertisement appears on page 61. Send for catalog. Parties who cannot attend can send bids to Mr. Fred Reppert, sale manager, or Col. H. L. Igleheart, auctioneer. Please mention The Homestead when writing.

THE CEDAR RAPIDS COMBINATION DUROC SALE.

One of the most important sales of Durocs that will be held this season is that of Messrs. Edwin Hummer, Iowa City, Iowa; C. R. Mills, Central City, Iowa, and Patten & Morris, Springfield, Iowa, at "A" avenue sale barn, Cedar Rapids, Iowa, on Friday, January 28th. Fifty head have been cataloged for this good sale and it is worthy of note that the tops of these three herds have been included in the auction. With possibly one exception the entire offering is made up of spring gilts and they are sired by such noted boars as Lafollette 2d by Lafollette, Robert's Chief by Watt's Chief by Ohio Chief; I Am Crimmon Wonder by the grand champion and sire of grand champions, Crimmon Wonder I Am; Ruby's Minister by Prime Minister, Tippy's Col. by Prince of Cols., Gay Advance 2d by Gay Advance by Advancer, Kant Be Beat, Advanced Chief by Ohio Chief and others of equal merit. These sows are bred to H's Col., a remarkably good spring pig by Tippy's Col., he a full brother to King of Cols., Muncie Chief, B. & C's Col., grand champion boar Iowa and Illinois State Fairs, 1909, and the dam of this pig was by Orion Chief, the World's Fair winner and sire of winners, and she in turn out of a daughter of Ed's Col. 2d. A number are bred to Cherry Col., he by Cherry Chief by High Chief by Ohio Chief and out of a daughter of King of Cols. and her dam by Ohio Chief; others to D. M.'s Crimmon Wonder I Am 2d, he by the Iowa State Fair champion and sire of champions, Crimmon Wonder I Am, dam by Golden Goods by Golden Rule; a limited number bred to Robert's Chief by Watt's Chief by Ohio Chief and out of a dam by Manley Orion by Orion; Kant's Advanced Chief by Advanced Chief by Ohio Chief, dam by Kant Be Beat, and a few bred to I Am Crimmon Wonder, he by Crimmon Wonder I Am, the Iowa State Fair champion. It is easily seen from the blood lines given above that the offering represents some of the greatest boars the breed has ever known, and readers of The Homestead can depend upon the individual excellence of the various consignments. Write for catalog as per the announcement on page 60 of this issue and plan to be present at this important sale. Mention The

Homestead when writing. Bids sent to Mr. Dante M. Pierce, care Globe Hotel, Cedar Rapids, Iowa, will be properly handled.

HEREFORD BULLS FOR SALE.

Note the change of advertisement for Mr. A. F. Hager, of Avoca, Iowa, on page 48 of this week's issue. He is now offering six good young Hereford bulls for sale that are good in color and heavy in bone. He is pricing these young bulls where anybody can afford to buy. Write Mr. Hager about these bulls at once or go and see them. Kindly mention The Homestead when you write him.

LAST CALL GOODENOUGH'S HAMPSHIRE SWINE SALE.

It is hardly necessary to say anything more than we have already said in regard to the sale of Hampshire bred sows to be sold by Mr. A. L. Goodenough, of Morrison, Ill., on January 29th. The front page illustration in last week's Homestead shows his undefeated show herd of 1908 and most of the sows in this sale are closely related to some of these winners. Here will be a great opportunity for anyone wanting to add some good sows to their herd or lay a foundation for a new herd. You cannot go wrong in buying any sow in the sale. This sale follows that of Mr. R. L. Bollman, of Cecil Valley, Ill., on January 28th, and the connections are good and it is but a short distance. We hope to see a large attendance of breeders at this sale. Parties who cannot be present can send mail or wire bids to Mr. Carlos C. Palmer, Homestead field man, in care of Mr. Goodenough, and they will receive careful attention. See page 59.

GRITTERS' POLAND CHINA SALE.

Mr. E. Gritters, of Hull, Iowa, will on Tuesday, February 1st, make a public sale which will include fifty head of Poland China sows and gilts of the big kind. A few of these are aged sows, but the majority are fall and spring gilts and are daughters of Choice Chief Price, Chief Leader, King, Long Price and A. Wonder. They will have been bred to Longfellow Jr., Gritters' Longfellow, North Star Chief, Prospect and Ideal. There will be no sale of the season that will contain as large a percentage of animals which have been bred in the biggest strains of the breed for generations. The spring gilts now weigh from 300 to 350 pounds, while the sows run from 500 to 700 pounds. They have been mated with boars that will weigh from 700 to 900 pounds and in just good breeding condition. They have good bone and are full of quality for hogs of the large type. These sows will be sold in just plain farm condition and will not be specially fitted for the sale. For catalogs write to Mr. E. Gritters, Hull, Iowa. See page 59.

LAKEWOOD PERCHERONS AT AUCTION.

Messrs. H. G. McMillan & Sons, of Rock Rapids, Iowa, announce their fifteenth sale of Percherons to take place at Sioux City, Iowa, February 8th and 9th. One hundred head of horses have been selected for this sale. Fifty-five of them are two-year-old stallions, every one a top notcher, nearly all black and the get of the most noted stallions of the breed. Several of them are Calypso colts. Most of them are of the ton type, low down, blocky, heavy boned with straight legs and good feet. There is no question but that they make up the best string of two-year-old stallions that the Lakewood Farm has ever sent into any sale ring. Then there are fifteen yearlings of the same kind and quality, lacking only the age. The Lakewood Farm has a reputation in the past for having sold good horses and the consignment of this year has merit which will increase that reputation. The female consignment will include forty-five head ranging from two to eight years old, and fifteen yearling fillies. Twenty of them are daughters of that famous and undefeated champion, Calypso. With the exception of five head these mares will have been bred to Calypso or Cartilage—the latter a prize winner of prominence at the fairs of the past season. As the lot consists of the very tops of the 400 head on the Lakewood Farm it will be seen that there is ground for our statements that it is an offering of the very best sort. They will be sold on their merits and under the same guarantee as has been given at previous sales. Advertisement will be found on page 56. For catalogs write to Messrs. H. G. McMillan & Sons, Rock Rapids, Iowa.

SEXSMITH & STRONG'S HIGH-CLASS OFFERING.

On January 27th, Messrs. Sexsmith & Strong, of Greenfield, Iowa, will make their annual Duroc Jersey brood sow sale and it is always one of the offerings that we like to write about. We never saw these boys put up a poor lot of sows, but on the other hand, they always put up one of the greatest offerings of the breed. No one herd in Iowa has had two better boars at the head than Valley Chief and H. A.'s Choice Goods, and these two noted sires have made these two herds among the most noted of the breed. Among the forty head of sows that they are selling in this sale are three daughters of Valley Chief and ten daughters of H. A.'s Choice Goods, together with five daughters of Proud Advance, two daughters of Ohio Chief and four daughters of the Iowa State Fair sweepstakes boar, Crimson Wonder Again. The last four sows will be out of the noted sow, Ohio Belle. Besides these there will be daughters of Model Wonder, Ohio Chief Again, Lafollette, Keep On Protection and one Chief's Col. gilt. These sows will be bred to H. A.'s Choice Goods, Proud Col. and The Col., two excellent Col. boars; Golden I Am, and a son of Valley Chief. We don't care where you go you will not see many better offerings than these boys are selling in this sale. Golden I Am is the 1,000-pound boar that Mr. Harry Sexsmith showed at Des Moines last fall and he is now owned jointly by Mr. Grant Hockett and Mr. Sexsmith. He is a boar that has made good as a sire and he will be bred to many of the sows that are cataloged for this sale, but we will say to Homestead readers that they will find here one of the best bunches of Duroc Jersey sows that will be sold this winter. The breeding is right and also the individuals, and we earnestly hope the boys will have a good attendance at their sale. Any bids sent to our Mr. M. T. White

in their care will receive attention on sale day. See advertisement on page 63.

ATTENTION TO ERROR IN ALLDRITT'S DUROC ADVERTISEMENT.

In last week's issue we gave the sale of Mr. Frank Alldritt, of Friend, Neb., to occur on January 26th, whereas it will occur on January 25th, as originally planned. Mr. Alldritt is going to sell seventy of the best Durocs that have been offered in the state, considering numbers, and will sell two herd boars of great worth as individuals and sires. Secure the catalog now and plan to attend the sale. See page 62.

LAST CALL STANSELL & MATERN'S DUROC SALE.

In past issues we have given a partial description of the offering of Duroc Jersey brood sows to be sold by Messrs. Stansell & Matern, at McNabb, Ill., on January 25th. This is one of the very top offerings of the year and the sows are bred to some of the best boars of the breed, notably The Professor, a son of the great Ohio Chief. As a sire he has few equals, as was demonstrated by the winnings of his get at the late Illinois State Fair. At that show his produce won thirteen ribbons, seven of which were firsts, five seconds and one third. The sows are sired by some of the most noted boars of the breed, such as Chief's Colonel, Model Wonder, The Professor, High Notcher, Inventor, Perfect Colonel, Prince Wonder and Macon Chief. Included is the second-prize six months gilt at the Illinois State Fair this year, and she is bred to Defender, the sensational junior yearling boar of the year for an early March litter. Do not forget this sale. You will make money by being present. Mail or wire bids sent to Mr. Carlos C. Palmer, in care of Messrs.

The announcement which gives more details appears on page 61 and those interested should write at once for catalog, mentioning The Homestead. Bids sent to Mr. Fred Larkin, of The Homestead, will be properly handled.

ADDY & SON SELL DUROCS NEXT MONDAY.

Our readers who have thought of attending the Duroc sale of Messrs. W. L. Addy & Son, of Parnell, Mo., should not forget that the date is next Monday, January 24th. W. L. A.'s Choice Goods sells and the breeder who gets him secures one of the great breeding boars of the country, one that is bred right and whose pedigree traces back to the foundation that produced Ohio Chief and King of Cols., two boars that are probably as popular as is Choice Goods. Addy hogs have given satisfaction and in this sale the buyers get the stock that has produced the good ones. On January 6, 1910, Mr. H. K. Ray, of Kewanee, Ill., writes as follows of a boar he had just received from Messrs. Addy & Son: "W. L. Addy, Parnell, Mo. Dear Sir:—Your letter reached me today, behind the hog by a few hours, as he was on the farm by 10 o'clock this a. m. and our mail seldom reaches us before 2 p. m. As to I. X. L.—well, he is better than I had dared hope to see, although I was looking for a good hog. He suits me to a finish and am better pleased with each inspection I make and there have been several of them this p. m. Can only say thanks for what I got over and above my money's worth and there is considerable. I am satisfied. Signed, H. K. Ray." The boar Messrs. Addy sent Mr. Ray was one of those from a sow of their herd that has been bred as have all the Addy hogs for results. He was

from every point of view. There will also be one fall yearling sow that has won honors in the show ring, having been first in sweepstakes over all breeds at the Rockwell City show. She is a daughter of Monarch Chief and her dam traces back to the very best lines of breeding known to Poland Chinas. Additional information may be had from the catalog, for which address Mr. John H. Fitch, Lake City, Iowa.

FAIRVIEW JACKS AND JENNETS.

Mr. J. C. Huckstep, of Eolia, Mo., has this year forty head of registered Mammoth jacks and twenty-two jennets that he offers to those who are looking for good breeding stock. Mr. Huckstep has taken particular pains in securing jacks that have big bone, big heads and ears and get big mules. All are Missouri jacks that are acclimated and stand from fourteen and one-half to sixteen hands in height. He sells these jacks and jennets worth the money, getting only a fair margin of profit for his work and money invested. His guarantee is liberal and as good as is made. See page 53 for Mr. Huckstep's advertisement and when writing or visiting him kindly mention that you are doing so at the solicitation of this paper.

120 STUDENTS AT THE MISSOURI AUCTION SCHOOL'S JANUARY, 1910, TERM.

The winter term of the Missouri Auction School, now being held at Trenton, Mo., is the best yet held. One hundred and twenty students are attending this term and Colonel Carpenter, president of the school, has the satisfaction of knowing that his efforts are being rewarded. For the benefit of those who cannot leave home to attend the school Colonel Carpenter has put on a correspondence course for study at home. The tuition for this course is not heavy and should you ever attend the school at Trenton in person, the money paid on the correspondence course will apply on the tuition for the regular auction school course. See page 52 for advertisement and when writing the Missouri Auction School kindly mention this paper.

BENNETHUM'S DUROC SALE.

On Tuesday, February 1st, Mr. W. R. Bennethum, of Madrid, Iowa, will sell at public auction thirty-five head of richly-bred Duroc Jerseys. The writer, representing The Homestead, has carefully inspected this offering and it is one of the most uniform that will be sold at public auction this year. Mr. Bennethum, it will be remembered, bred and produced such noted boars as Model Top, first and champion at Kentucky and Tennessee State Fairs, 1909; Golden Model II., first and champion at several state fairs, 1909, and the sire of many winners at the same state fairs this season; Model Again, prize-winning boar at Iowa State Fair, 1909. He is part owner of the sire of these great boars, Golden Model, and the attractions of this sale will be sows either sired by or bred to him. The record of the sons and daughters of Golden Model or their get at the leading state fairs of both the East and West of 1909 was never equaled by any boar of the breed and future shows will serve a valuable lesson as to wisdom of securing sows bred to Golden Model. Others in the offering are bred to Advancer 1st, he by the champion, Advancer, and out of Miss Wonder by the World's Fair winner, Top Notcher Chief, while her dam, Fair Wonder by Crimson Wonder. Advancer 1st was a prize winner in 1908 and is the sire of some of the best things the writer has seen this year. A limited number have been bred to Model Again 2d, a splendid spring boar sired by Model Again and out of a daughter of the Iowa State Fair winner, Keep On III., and a few have been bred to Crimson Kid, a great son of the Iowa State Fair champion and sire of champions, Crimson Wonder Again, his dam being by Top Notcher Again, a World's Fair winner and sire of state fair winners. Write for the catalogs at once, mentioning The Homestead, and watch our next issue for detailed account of the offering. Bids sent to Mr. Dante M. Pierce will be properly handled. See announcement on page 49 of this issue.

GLISSMAN'S HOLSTEIN-FRIESIAN SALE.

On February 8th-9th, at South Omaha, Neb., Mr. Henry C. Glissman, one of the most noted breeders of Holstein-Friesian cattle in the West, will make a public sale of 125 head of cows, heifers and young bulls and it promises to be one of the greatest opportunities in the West to buy Holstein-Friesian cattle. Mr. Glissman is selling a splendidly-bred lot of Holsteins in this sale and those who want dairy cattle will find this sale to be one of the best that has been offered in the West of late years. There will be 125 head in the sale of all ages, consisting of the following cattle: Fifty cows and heifers in milk or soon fresh, and they are the best of the breed; thirty heifers from twelve to twenty-four months old, mostly bred to calve in the spring and summer, by such noted bulls as Sunny Jim, Milk and Butter King 2d and other noted eastern sires. There will also be twenty choice young heifers under one year old, sired by the best bulls of the breed. There will be twenty-five bulls in the sale from twelve to twenty-four months old, including sons of De Kol 2d's Butter Boy 3d, King Segis Pontiac, King of the Pontiacs, Sunny Jim and others of equal merit. There will be a number of A. R. O. cows and daughters of A. R. O. cows, including Ricka, the cow that won the Nebraska Dairyman's Association test for the year just closed, making almost 16,000 pounds of milk and over 600 pounds of butter in the year. Her yearling daughters sired by his great bull, Sunny Jim, is also included. There will also be several granddaughters of Hengerveld De Kol that are safe in calf to Milk and Butter King 2d, son of the \$10,000 Milk and Butter King. This is the largest offering of registered Holsteins ever held in the West. Every animal in the sale over six months of age is tuberculin tested and is absolutely all right in every way. We have known Mr. Glissman for the past fifteen years and know him to be one of the most reliable Holstein-Friesian breeders in the West. It promises to be one of the greatest offerings of dairy cattle that has ever been put up at public auction, and it will be the great opportunity for dairymen throughout the central West to buy choice dairy cattle. Catalogs are now ready. Write for it at once and kindly mention this

NEXT WEEK'S SALE PROGRAM

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| Monday,
January 24 | Clydesdales and Short-horns, Alfred Bailey, Anita, Ia.
Duroc Jerseys, W. L. Addy & Son, Parnell, Mo.
Duroc Jerseys, A. L. Mossman & Son, Radcliffe, Iowa.
Duroc Jerseys, T. W. Stoner & Son, Henry, Ill.
Percherons, French Drafts and Shires, Union Wrecking Company, South Omaha, Neb.
Poland Chinas, Thompson Bros., Central City, Neb.
Poland Chinas, George Seifrit, Lucas, Iowa. |
| Tuesday,
January 25 | Duroc Jerseys, Frank Alldritt, Friend, Neb.
Duroc Jerseys, C. E. Veak, Essex, Iowa.
Duroc Jerseys, Henry Matern and J. B. Stansell, McNabb, Ill.
Poland Chinas, Henry Dorr, Remsen, Iowa.
Poland Chinas, J. H. Wintermute and Fred Rood, Blockton, Iowa. |
| Wednesday,
January 26 | Chester Whites, A. A. Hummer, Keswick, Iowa.
Duroc Jerseys, R. C. Veenker, George, Iowa.
Duroc Jerseys, S. J. Madison, Nevinville, Iowa.
Herefords, A. E. Cook, Odebolt, Iowa.
Poland Chinas, J. A. Stephenson, Mt. Ayr, Iowa. |
| Thursday,
January 27 | Duroc Jerseys, T. J. Current, Hildreth, Neb.
Duroc Jerseys, C. A. De Vault, Inwood, Iowa.
Duroc Jerseys, Sexsmith & Strong, Greenfield, Iowa.
Poland Chinas, John B. Lawson, Clarinda, Iowa. |
| Friday,
January 28 | Duroc Jerseys, Edwin Hummer, C. R. Mills, Patten & Morris, Cedar Rapids, Iowa.
Duroc Jerseys, H. S. Allen, Chariton, Iowa.
Hampshires, R. L. Bollman, Coal Valley, Ill.
Poland Chinas, Wigstone Bros., Stanton, Iowa. |
| Saturday,
January 29 | Hampshires, A. L. Goodenough, Morrison, Ill. |

Stansell & Matern, McNabb, Ill., will receive careful attention.

LAST CALL FOR THOMPSON BROS.' POLAND SALE.

The sale of big Poland Chinas from the good herd of Messrs. Thompson Bros., of Indianola, Neb., at Central City, Neb., on January 24th, is one that will contain more prize animals and prize-winning blood than any other sale to be held in that state this season. Messrs. Thompson have as chief herd boar Grand Look, a well-known winner of seventeen first and sweepstakes ribbons in two seasons' showing and has proven a good sire. He is considered one of the best things ever produced by Mr. Meece. The other boar to which they are bred is a boar that they won first on as a junior yearling this year, Tom Crowder, and the sire of the larger part of their last season's crop and one which sold readily at good, strong figures and were also winners in the show ring at Lincoln. Included among the sows is Proud Giantess, the sweepstakes sow at both the Nebraska and Kansas State Fairs in 1909, and a sow that is one of the most profitable kind, having plenty of sale and is of extra good quality. In last week's issue a picture was shown taken at the fair. Then a grand brood and show sow is included in Pamo X. L., the grand champion sow of Missouri, Kansas and Nebraska in 1908, and without question one of the best sows from any standpoint in the state. She is bred to Grand Look for an early litter. Then there will be ten fall yearlings by Pan Jr., full sisters to Mollie K., grand champion sow of Missouri, Nebraska and Kansas in 1907, and a mail bid on any one of these will be well placed. They are well grown and are the making of a grand lot of sows. Then there will be Colossa, the first-prize gilt at Nebraska in 1909, and also at Kansas. These go to make up just a few of the outstanding good things that sell and anyone seeking first-class brood sows from any standpoint will find that this offering is one of the strongest to be sold anywhere this season.

the last boar they had to sell excepting the two herd boars, Choice Goods and Crimson Chief, that go in the sale. Such letters cause men like Messrs. Addy to regret that the herd must be scattered, but as they have sold the farm the hogs must go. Remember the day is next Monday.

FITCH'S POLAND CHINA SALE.

Mr. John H. Fitch, of Lake City, Iowa, will hold a public sale of Poland China brood sows February 3d. The advertisement will be found on page 48. Mr. Fitch's herd is a good one, it is well cared for and includes lines of breeding which have been productive of the best results. From the point of view of those who want size as well as quality, his offering will show up a greater proportion of the blood of that great old champion, Chief Tecumseh 3d, than any other sale of the season, and probably any that will yet take place. Eight matured brood sows go into this sale; these have raised good litters and they are right in every way. They are big and good. One of them is by Winning Perfection, a son of the great T. R.'s Perfection, himself a prize winner at the Iowa State Fair. One is by Monarch Chief, two by Chief of Rio Vista, one by Fancy Perfection, and the others by Chief Tecumseh 4th. There are sixteen fall sows by Monarch Chief, he a grandson of Chief Tecumseh 3d. The remainder of the eighteen head are spring gilts by Long Hadley, and Long Hadley is by Hadley's Model, dam a granddaughter of Surprise Wonder. One of the peculiar things about the sale, and interesting as well, is the aged sow, Daisy Perfection. She is a daughter of Winning Perfection and her dam, Daisy Dream 2d, traced through a good line of breeding to old Orient. She has in this sale one three-year-old daughter, one yearling, four fall gilts and two spring gilts. The three-year-old has one spring gilt in the sale and the yearling has two extra nice ones. This makes a total of twelve of the descendants of that old sow, which is a splendid advertisement of her breeding merit. The two gilts just referred to are show gilts

paper. The sale will be held in a heated sale pavilion and every comfort will be provided for the accommodation of the visitors. Be sure to see it for his ending at once. See page 50 for his advertisement.

HAWKEYE DUROC JERSEY SALE.

Mr. C. A. De Vaul, of Inwood, Iowa, will make a draft of forty head of brood sows from his Hawkeye herd of Duroc Jerseys for his sale on January 27th. Fifteen of these are tried brood sows and fall yearlings, the remainder are spring gilts. They have size and quality and are desirable animals which both breeders and farmers should be glad to obtain. In the matter of blood lines they stand on a basis as good as any offering will contain. Daughters of Robert J., Ohio Advance, S. B.'s Crimson Wonder, Bon Bon, Iowa Notcher, Golden Jim and Junior Jim's Advance. They will have been bred to Nelson's Model (first prize winner at the South Dakota State Fair), W. S. Choice or Robert J. Those who attend the Veenker sale at George, Iowa, on the day previous, may also reach this one without inconvenience. For catalogs giving complete details address Mr. C. A. De Vaul, Inwood, Iowa. See page 61.

VEENKER'S DUROC JERSEY SALE.

Mr. R. C. Veenker, of George, Iowa, will make a public sale of Duroc Jersey sows, January 26th. Thirty-eight head have been cataloged for the sale. Sixteen are tried brood sows and twenty-two spring gilts. They are the daughters of Sioux Chief, Minor Heir and Bon Bon 2d. They are bred to Crimson Dale (he by the Minnesota sweepstakes hog, Dale) and Rex Wonder Jr. This is an extra good herd and some of its best individuals are being put into the sale. Among the specially attractive ones will be an aged sow, a yearling and three spring gilts, the dam of which was a daughter of old Achiever. For special information concerning the most desirable ones see the catalog. Mr. E. T. Parker, representative of The Homestead, will be in attendance and will be glad to execute any commissions to purchase that may be forwarded to him. For catalogs address Mr. R. C. Veenker, George, Iowa. See advertisement on page 62.

LAST CALL FOR THE JNO. B. LAWSON POLAND CHINA SALE.

For the last time we want to call the attention of our readers to the high-class Poland China sale of Mr. Jno. B. Lawson, at Clarinda, Iowa, on January 27th. This is one of the very good Poland China sales to be held this winter. Mr. Lawson is selling fifty head of big type, with quality combined. Poland China brood sows and they are certainly a good lot. Miss James, a daughter of the great boar, Pawnee Lad, and the dam of his noted boar, Prospect, is a splendid sow and she is bred to his splendid young boar, Big Tecumseh. There is a yearling daughter of Prospect in the sale that is also very choice, bred to Big Tecumseh, and there is a cracking fall sow by the same boar and bred to the young hog. In fact there is a cracking good lot of yearling Prospect sows in this sale and any of these will be good enough to go into any of the best herds in the West. One of these fall sows is a full sister to the highest-priced boar sold last fall and she is a good one. There are twenty daughters of Prospect in this sale and they are good. He also sells a splendid lot of gilts and a few good matured sows, and the offering as a whole is of a high order. In fact we can recommend it as one of the good offerings of the year and it will be a splendid place to buy some good sows. The catalog is now ready for distribution. Any bids sent to our Mr. C. C. Carlin, representative of this paper, in care of Mr. Lawson, will be properly attended to on sale day. See page 51 for Mr. Lawson's advertisement.

JOHN H. TRYON & SON'S DUROC JERSEY SOW SALE.

On February 1st, at their home farm four miles from Bancroft, Neb., Messrs. John H. Tryon & Son will hold their annual Duroc Jersey sow sale, and from every appearance it now promises to be one of the good sales that will be held west of the Missouri river this winter. No firm in the West have any better Durocs than have the firm of Messrs. Tryon & Son. They were among the very first in Nebraska to enter the Duroc Jersey ranks and they have always bought liberally of the best blood known to the breed. The forty head that they are selling in their forthcoming sale are the cream of their herd and they are selling sows in this sale that they would rather keep in the herd. However, they want a few sows themselves of somewhat different blood lines and this has caused them to put into this sale some of the greatest sows they have in their herd. Among the number is one daughter of the great sire, Proud Advance, bred to their splendid young boar, Goldust Col., a son of Harding's King of Cols. This sow was the second highest-priced sow in the R. J. Harding sale two years ago and she is one of the great sows that will be offered for sale this winter. They are selling two splendid daughters of Dreadnaught in this sale out of Improver Belle, she by Improver II. Both of these are good sows and they are bred to Perfection Chief, a son of the great Ohio Chief that they are now using in their herd. Then they are selling two splendid sows by Farmer Burns out of a daughter of old Kant Be Beat and these are bred to the same boar. This will be one of the last chances to get a daughter of Farmer Burns in a sale, as the old boar is dead. They are also selling a good daughter of Junior Jim in this sale that looks good to us and she is bred to Perfection Chief. Molly Mihills by Ideal Critic is also a good proposition and she is bred to Perfection Chief 2d. They are also selling a number of very excellent sows that are sired by Tryon's King Orion and there is not a poor one among the bunch. There are quite a few granddaughters of Ohio Chief in their sale and the most of these are bred for reasonably early farrow. The boars that they are now using are Perfection Chief 1st and Perfection Chief 2d, both sons of Ohio Chief; Goldust Col., a son of Harding's King of Cols., and Woodland King. We would like to urge upon the breeders and the farmers of the West to attend this sale. We know that they will get a square deal at the Tryon sale and the man who buys a sow there will never have cause to regret it. If

she isn't right this firm will make it right and this is saying a great deal. There is no more reliable firm doing business in the West. Write for their catalog and be sure to attend their sale. Any bids sent to Mr. M. T. White, Homestead representative, will be attended to on sale day. See page 49.

BOLLMAN'S HAMPSHIRE SOW SALE—LAST CALL.

This is the last opportunity we will have of calling your attention to the Hampshire sale of Mr. R. L. Bollman, of Coal Valley, Ill., on January 28th. Mr. Bollman is known wherever the Hampshire hog is known, as one of the best breeders we have. He has been very successful as a showman and breeder. At the International live stock show during the past three years he has made an enviable record. He has a large herd numbering some 400 head and he is selling seventy-five of the tops. They are of the best breeding to be had and bred to his great herd boars. This sale is the day before that of Mr. A. L. Goodenough, at Morrison, Ill., and breeders can make both sales at the same expense. If you cannot be present, send a mail or wire bid to our Homestead field man, Mr. Carlos C. Palmer, in care of Mr. Bollman, and it will be carefully handled. Write for catalog at once. See advertisement on page 59.

JOHNSON & SONS' DUROC SALE.

On page 51 appears an advertisement that should appeal to every Duroc Jersey breeder in the country. It calls your attention to the sale of bred sows to be held by Messrs. Thos. Johnson & Sons, of Columbus, Ohio, on February 3d. It is named the Orion Chief and High Chief sale, as all the sows in the sale are bred to these two great hears. Orion Chief was the first-prize junior yearling boar at the World's Fair, at St. Louis, and has sired as many prize winners as any other boar in the East. Just look up the reports of the Iowa and Illinois State Fairs during the past three years and see how many ribbons the get of Orion Chief have won. High Chief is a great son of Ohio Chief and out of Artie M. by Ed's Colonel. He was also a winner at the World's Fair. As a breeding boar he has few superiors. He sired the grand champion boar at the Indiana State Fair, 1908, and the first-prize aged boar at the same show, 1909. A sow bred to either of these two great sires will do any breeder good. There are twelve sows by Orion Chief bred to High Chief. Others are sired by Colonel Gladness, Model Top, Grand Success, Chief Orion, Tippy Colonel, Carl's Colonel, Red Corrector, Oakland King, Colonel King, Arch Creek King, Chief Success, Oak King, Gold Bund, Wilda's Colonel and others equally as good. Messrs. Johnson have been liberal buyers of the best sows sold at auction during the past five years and it is a feast to lovers of good Durocs to see the fifty great sows that are being retained in the herd for Messrs. Johnson & Sons' use. Whatever Messrs. Johnson undertake, they build well. Permanency is one of the policies that is put in practice here. Just this fall he has built a cement block hog house at a cost of nearly \$5,000, which goes to show that they expect to breed Durocs for many years. No man has a better right to a good sale than has Messrs. Johnson. They have been strong supporters of the breed and have a great bunch of sows for their coming sale. These sows are bred to boars second to none and we hope all interested will write for catalog and attend the sale or be represented. Bids sent to Mr. Carlos C. Palmer, Homestead field man, will be properly handled. When writing please mention The Homestead.

LAST CALL FOR ALLEN'S GREAT CRIMSON WONDER SALE.

One of the greatest Duroc Jersey sales that will be held in the West this winter will be that of Mr. H. S. Allen, at Clariton, Iowa, on January 28th. One of the greatest Duroc Jersey boars of the breed today is old Crimson Wonder Again, the Iowa State Fair sweepstakes boar, and he is the senior herd boar today at the head of the Henry Allen herd. As a sire of high-class stuff he stands out preeminently just now as one of the greatest sires of the breed. He was a sweepstakes boar at the Iowa State Fair and his sire was a sweepstakes boar at the same show. It does not end at that because he is going on siring winners himself. The sensational pig at the Iowa State Fair in 1908 and the sensational litter at the state fairs in 1909 were sired by him and this litter sold for considerably over \$1,000. Also many of the best winning sows have been daughters of his and he therefore stands today one of the greatest breeding boars known to the breed. In Mr. Allen's forthcoming sale there will be twenty-five head of sows that will be bred to this boar and nearly every one a good one. It will not be a difficult task to select a good sow in his sale this year, and a litter by this great sire will be a money maker to any breeder, so don't overlook this great opportunity to buy when you have this chance. The boar is aging each year and he may not have many years before him and therefore now is the time to buy. There will be twelve daughters of Crimson Wonder in the sale and they will all be bred to Model Chief 8th, an Iowa State Fair winner, and here will be a good cross. The top pig last fall in the Sells sale at Indianola was sired by Model Chief 8th, so you can depend upon this being a good cross. There will be daughters of the great Ohio Chief and Proud Advance in the sale and they are splendid brood sows. There will also be five daughters of Valley Chief in the sale all bred to Crimson Wonder Again and no man will go wrong who buys one of these. Mr. Allen is selling Lady Wonderful, a daughter of Crimson Wonder Again, and one of the best show sows out last year. Bred to Model Chief 8th she certainly should be a good proposition for some enterprising breeder to buy for a foundation sow. He also sells Queen Wonderful, another daughter of the old boar, and she is a good proposition for the breeders to get their eye on. There will also be a Prince of Cols. sow in the sale bred to the old boar. We are just giving you an outline of what Mr. Allen is selling in this sale, but we will guarantee you that if you buy a sow in this sale you will get one of the best money makers that you ever had in your herd. The day of the

Crimson Wonder is now here again and they all want them and here is the place to get the foundation. Get his catalog at once and mention The Homestead. Send a bid to our Mr. M. T. White, in Mr. Allen's care, if you cannot go to the sale yourself. See advertisement on page 63.

LEITCH AT THE HORSE SHOWS.

The horse shows at the state fairs the past season have been marked because of the preponderance of high excellence that has been maintained nearly throughout the entire circuit. Not the least noticeable in the exhibits at these fairs has been that made by Mr. John Leitch, of La Fayette, Ill. A recent letter from that gentleman on the subject says: "Since our return from the great Chicago International Live Stock Show we have received a greater number of inquiries with reference to our horses than ever before. The splendid showing we made there has attracted wide attention. We won more ribbons according to the number of horses than any other importer of Clydesdales in the United States. Prominent among our prize winners was the four-year-old mare, Pride of Drumlanrig. She took first in the open class, first for American special and reserve for female championship. She was a former champion in Scotland. Only a few months after having been imported she was shown at the Iowa State Fair, taking first for mare four years old or over and championship, as well as the Clydesdale Association's gold medal for best mare of the breed. At the same show her filly foal at foot, Pride of Avondale, won first prize. This makes a record that has never been equaled by a four-year-old mare. One of the leading judges of Clydesdales from Canada said she was the most outstanding mare of the breed he had seen in the states or Canada. At the International our three-year-old stallion, Prince of Whitehouse, took first prize and first for American special. At the Iowa State Fair he was a first-prize winner and reserve champion in yearling class. We won, with Prince William, first prize as an American-bred and first prize for American special and in addition he was the reserve champion for the American-bred champion cup. We also won third in open class and third in American specials with a promising yearling. Other prizes to our credit were fourth in open class and fourth in the American special on three-year-old mare; fourth in the halter class for mares or geldings and four for mares or geldings in harness shown to wagon. As the International brought out the largest and best show of Clydesdales that ever came into competition on this side of the Atlantic it will be seen that our winnings were of the most satisfactory kind. At the International we won more prizes than any other importer of Clydesdales. At the state fairs we secured more prizes than all of our competitors together." Mr. Leitch, aside from being a specialist with Clydesdales, also has for sale Percherons, Shires and Hackneys and having a new importation on the water will make some special bargain prices in order to make room for them. An advertisement will be found on page 55. Catalogs giving terms and prices may be had by writing Mr. John Leitch, La Fayette, Ill.

DUROC JERSEY SHOW SOWS.

Mr. Geo. H. Purdy, of Mason City, Iowa, whose dispersion sale of Duroc Jersey hogs on February 3d is advertised on page 61, has by painstaking selection and intelligent matings gotten together a herd of the breed which is now really on a basis to be productive of the highest results. Only a set of conditions of unusual and extraordinary character would demand the dissolution of a herd of this character. Such conditions now face Mr. Purdy and as a result the herd goes under the auctioneer's hammer on the date mentioned. First and foremost in the consignment is the great double champion-bred brood sow, Lulu Wonder, whose ancestors have for generations been champions at the greatest of the state fairs. She, however, is mentioned in detail elsewhere in this paper. Another matured sow that cannot fail to attract attention is Anna Keep On, she by Keep On and dam Anna Kings, she by a half-brother to Ohio Chief and her dam a full sister to Proud Advance, and all that other great string of prize winners. Anna Keep On herself was a member of the phenomenal litter which took first, second, third and fifth in the class under six months at the Iowa State Fair. She has been a producer. Then there is Nelle Chief, daughter of Model Chief, dam also of strong Advance breeding. She has been a producer of large and good litters and is one of the best money-making prospects to go into anybody's sale. A particularly attractive sow is Fancy P. Second. This sow is by Model Improver, he the sweepstakes hog at the Minnesota State Fair last fall, and her dam was a recognized valuable breeder. This sow produced prize-winning litters for two years in succession and one of her daughters also produced a litter which won prizes last fall. For those who want something tried and proven this sow will certainly have attractions. The other matured sows were briefly referred to in our last issue. At this time we can only say that their blood lines are of the most popular character and that they have the individuality most sought after. Of the March and April gilts that go into this sale, two-thirds of them are by Proud Wonder; this hog is a litter brother to the show sow, Lulu Wonder; he is one of the biggest hogs of his age that the writer has seen. He has a strong, vigorous character, showing great force, and as a producer has a record somewhat remarkable. His pigs have shown size, with plenty of quality and finish, and they have been sellers above everything else in the herd. Gilts by this hog and bred to Chief Select have a promise that can be obtained by no other line of breeding. The remainder of the gilts are by Chief Advancer and Duroc Wonder. Chief Advancer is a son of Model Chief and his dam is a daughter of Advancer. The breeding is too well known to need further explanation. Duroc Wonder is by a son of Crimson Wonder and his dam was a grand-daughter of the same hog. She is a first-prize and sweepstakes hog at the Iowa Fair, 1908, and has all the strong show-yard points possessed by Crimson Wonder. Those who are looking for the very best kind of hogs and those which have the best lines of breeding behind them must realize that in this consignment Ohio Chief Advance and

Crimson Wonder strains predominate and that a dash of Colonel blood that comes through Chief Select will make them beyond any question as good as can be found anywhere. Do not forget the date and send for catalog, which will be mailed to any address by writing Mr. Geo. H. Purdy, Mason City, Iowa. Any of our readers who are unable to attend this sale may commission our Mr. C. C. Carlin, who will be in attendance to make any purchase which they may desire.

DUROC JERSEY SOWS FOR SALE.

On page 62 will be found the advertisement of Mr. J. D. McDermott, of Wiota, Iowa, who is offering a high-class lot of Duroc Jersey sows for sale at private treaty. Among these are some splendid daughters of Ohio Chief and quite a few granddaughters. Also some Colonel sows and other daughters of some of the more noted sires in the West. Mr. McDermott declared off his public sale and is offering these sows privately. He has just as good sows as any breeder in the West and one of the most popular and up-to-date blood lines. You can buy a good sow or as many as you may want from Mr. McDermott and you can buy them right. If you write him he will quote you prices on these sows, but it will be better still if you can go and see them. Kindly mention The Homestead when writing him.

HEISEL'S STALLIONS AND MARES.

Mr. E. J. Heisel, of Fremont, Iowa, importer of draft stallions and mares, writes: "If you are about to buy a horse, but are undecided as to whether you will purchase from Mr. Smith, Jones or Brown, likely the thought has never struck you that Mr. E. J. Heisel, of Fremont, Iowa, might have the very horse that you are looking for and at the price that will suit the most fastidious of tastes. I have on hand Percherons, Belgians, Shires, Clydesdales and a few Oldenburg Coach horses, the best-looking twenty-two-carat lot ever congregated in one man's barn. I do not brag like some other importers, that I was in France before anybody else and got the pick of the market, as those gentlemen, as a rule, are run hunters, and purchase what I would not take the trouble to cast my glimmers over. But I do say to the man that is looking for a stallion, that I went to France early and spent forty long days there selecting the best that I could find, and that everyone is a good one. I still have some of the fine mares which I brought over with my 1909 importation, which I am selling privately. I have always been very successful in buying stallions and mares with the size and quality desired; any of them are prize winners and sons and daughters of prize winners. While there is no doubt but what I could have captured some of the prizes at the great horse shows, had I entered them, I think that my stallions will give my patrons better results as breeders by not being pampered for the show ring, as I am selling them with as good a guarantee as anyone and expect to make said guarantee good to the letter. My prices are very low and it would be good policy for anyone wanting either stallions or mares to buy their next railroad ticket to Fremont, Iowa, and visit me at my barn. While I am very busy now closing deals, you will be received with a cordial welcome, whether you buy or not, but nine chances to one you will buy when you see them and get my prices. Any correspondence to me will be cheerfully answered." Fremont is located on the Iowa Central Railroad, from Albert Lea, Minn., to Peoria, Ill., and the C., B. & Q. from Burlington to Oskaloosa, Iowa. A few minutes' walk from either depot will take you to his barn. See advertisement on page 54 and mention The Homestead when writing.

LAST CALL STONER & SON'S DUROC CALL.

Messrs. T. W. Stoner & Son, of Henry, Ill., will hold their sale of bred sows on January 24th and have the following to say in the announcement in their catalog: "In presenting this, our sale catalog, we do not deem it necessary to make any extended remarks. We have lived in this community for more than forty years, and whatever our reputation may be is too well known to be affected in any way by anything we might say here. We have been breeding and selling Durocs, both publicly, for more than twenty-five years. The kind of stock we breed and our manner of doing business is also well known. We may be pardoned for saying that we have offered some lots of hogs of which we were justly proud. We believe this offering is fully up to the average or superior to any we have heretofore offered. We might say many things of them which we will not say. They are here and must do their own talking. It is a source of much satisfaction to know that men who know us and our stock have dealt with us for more than twenty years. We stand behind every hog we sell. We have always advocated, and we feel sure we are right, that it is infinitely better to be wronged yourself than to wrong a customer in any way. It will be observed that we have used but short footnotes. This is for two reasons. In the first place, footnotes are often misleading, and in the second place, no footnotes can make a good pig out of a bad one. We have, therefore, refrained from extending long reading notices under each pedigree. We are sure that all well-posted breeders know the blood lines quite as well as we do, and if they do not, then nothing which we could say would influence them in the least. Men, as a rule, will not buy a poor one at a long price if they see it, and if a bid is sent to us we will not place it on an inferior pig. Come to the sale if you can, and if you cannot come, send your bids, and if we know it we will not sell you anything that is not good. We believe today, from a breeder's as well as from a market standpoint, the hog business is on a sounder basis than it has been for the past number of years. The offering is almost entirely of our own breeding and every sow has been bred by us personally, so there can be no mistakes as to dates of farrowing. Every sow was booked before she left the boar lot or breeding crate. They have not been pampered up or corn-fed too heavily; they ran on blue grass and in forty acres of clover all summer and fall, with very little corn. They will be in nice condition, a condition that will be to your benefit. We will be pleased to meet all of our old customers and many new ones at the sale. We will en-

deavor to treat you fairly. Parties from a distance will be entertained at either hotel free of charge by registering as our guests. Bids sent to Mr. Carlos C. Palmer, Homestead field man, in their care, will be properly handled.

THUIRER'S POLAND CHINAS AT AUCTION.

Mr. C. L. Thuirer, of Fostoria, Iowa, will hold his annual bred sow sale, of the big Poland China type, on his farm three and one-half miles southwest of Fostoria, February 3d. He is selling fifty head—eight tried sows, ten fall yearlings, the balance spring gilts. The offering are the get of Producer, Sunshine T., Onward, Surprise Wonder and Long Tom, and they are bred to Crow's Model 2d, Onward 2d and Long Dude Jr. Mr. Thuirer is selling some extra good choice breeding matrons, and among them are some very choice matured sows, such as Lady Tecumseh 2d, a very large sow, an extra good mother, and full of quality. There are also three two-year-old sows out of Molly Fair 6th, daughters of Long Tom, and are bred to Crow's Model 2d, one of the best sons of Crow's Model. He is also selling another good one called Look Again 6th, safe in pig to the service of Crow's Model. The fall yearlings are all the get of Long Tom, and all are bred to Crow's Model 2d, Long Dude Jr. and Onward 2d. The spring gilts are an extra large lot, with lots of quality. They have the very best of feet, nice head and ears, well-arched back, well hammed down to the hock, and are a bunch that will please the most artistic breeder or the farmer. They are the daughters of Crow's Model 2d, Onward and others, and are bred to Crow's Model 2d, Long Dude Jr. and Onward 2d. Mr. Thuirer in his statement says: "They are the best bunch of Poland China bred gilts that I have ever drove through the sale ring," and as the Homestead representative has been acquainted with his herd the past five years, he can truthfully state that they are the best bunch he ever saw on his farm, and as good a bunch as he has had the pleasure of looking at this year. Anyone wishing to attend this sale will have free accommodations to and from the farm, from Moore's livery barn at Spencer, Iowa, and also from Fostoria, Iowa. Free hotel accommodations can be had at the Central House, in Spencer. Parties attending Mr. Crow's sale on February 2d can easily attend this sale without inconvenience. Remember the three days' circuit: E. Gritters, at Hull, February 1st; W. J. Crow, at Webb, Iowa, February 2d, and C. L. Thuirer, Fostoria, Iowa, February 3d. All three of the offerings will be of the big Poland China type. Col. W. R. Ritchie is the auctioneer and E. T. Parker, field man. For catalog address Mr. C. L. Thuirer, Fostoria, Iowa, and mention The Homestead. See advertisement on page 50.

CROW'S POLAND CHINAS AT AUCTION.

On February 2d, on his farm at Maclay, Iowa, Mr. W. J. Crow, the original big-type Poland China breeder, will hold his annual bred sow sale. He is cataloging sixty head, consisting of tried sows, fall yearlings and spring gilts, all of the Crow type of Poland Chinas, and they possess such qualities as make it profitable for the breeder and the farmer to raise, by having size and quality. Mr. Crow deserves much praise from breeders on account of his successful fight during the past several years in the interest of the big, easy-feeding type of hogs, and today their fame is spreading from shore to shore, proving their worth to the farmer, as well as the breeder. No man has scattered so many good, big herd boars over this entire hog-raising country of late as Mr. Crow has, and we have yet to find a single breeder or stockman who has bought a hog from him who says it was not a good buy. Several years ago Mr. Crow went out to buy the best herd boar that he could find. He spent considerable time and money in so doing. He finally found Up To Date. He was bred by Mr. Wm. F. Powell, of Moline, Kan., and was farrowed May 27, 1904, there being ten in the litter. He was sired by Perfect I Am and his grandsire was Anderson's Perfect and his dam Lady Perfect Sanders, she by Perfection. Up To Date today stands at the head of Mr. Crow's herd, and in speaking of the ideal, smooth, big hog, Up To Date fills the bill, for no better feet and legs ever went under a hog. Coat, color, head and ears, back, breadth and width are all good, and no hog ever had a better ham, or more of it than Up To Date. At five months old he weighed 125 pounds, at twelve months old 565 pounds, and at twenty-four months old 800 pounds, and was just as smooth as a stove pipe, and the writer thinks that no better hog stands at the head of any herd in America today than Up To Date, and he is the sire or grandsire of most of the entire offering. There will also be a few sows bred to him. Another great boar at the head of Mr. Crow's herd is Big Surprise. He was bred by Mr. John Miller, at Rock Valley, Iowa. He is the get of Miller's Tecumseh and the grandson of Columbia Chief 2d. His dam was Miller's Molly Surprise, she by Surprise Chief. This great hog is the sire of part of the offering; also part of the offering are bred to him. Another great herd header in Mr. Crow's herd is Hadley's Expansion. He was bred by Mr. Henry Dorr, of Remsen, Iowa. He was sired by Dorr's Tecumseh, he by Johnson Chief, tracing to Chief Tecumseh 2d. His dam was Remsen Bell by King Dodo and the granddaughter of Old Expansion. He is also the sire of part of the offering and a part are bred to him. Another one of the herd headers is Saint Patrick. He was farrowed March 17, 1909, and bred by Mr. Wm. Lentz, of Ankeny, Iowa. He was sired by Tecumseh Long-fellow. This is one of the good young boars that the writer has found in his travels this year, and part of this offering will be safe in pig by his service. Parties attending this sale will have free accommodations from Sioux Rapids on the Northwestern, and from Webb, Iowa, on the Milwaukee. Those coming on the Rock Island should get off at Maclay. Remember the E. Gritters big type of Poland Chinas to be sold at Hull, Iowa, on the 1st, and C. L. Thuirer, at Fostoria, Iowa, on the 3d, following W. J. Crow's. Cols. W. R. Ritchie, of Marathon, Iowa; James Jensen, of Newell, Iowa, and Bert Bowman, of Spencer, Iowa, are the auctioneers; E. T. Parker, field man. Bids may be sent to either of the above, care of Mr. W.

J. Crow, and they will receive prompt attention. Catalogs are now ready and may be had by writing to Mr. W. J. Crow, Webb, Iowa, and mentioning The Homestead. See advertisement on page 49.

MARK EDDY OFFERS BROOD SOWS FOR SALE.

On page 62 Mr. Mark W. Eddy, of Fontanelle, Iowa, is offering about twenty-five good Duroc Jersey sows for sale at private treaty. He finally declared off his sale and decided to sell these sows at private treaty. You cannot beat his prices and the quality and breeding of the sows he is selling. Write him if you are on the market for Duroc Jersey sows, as he can save you some good money on your purchase. Kindly mention The Homestead when writing him.

LEE CANTINE'S BROOD SOW SALE.

On February 4th, at the well-known Cherokee Farm, four miles from Quincy, Iowa, Mr. H. L. Cantine will make his annual public sale of fifty head of high-class Duroc Jersey brood sows. There will be thirty head of yearling and aged sows in the offering and twenty-five of the most choice gilts that he has raised this year. They are sired by the great boar, Crimson Wonder Jr., one of the best of the surviving sons of old Tolstoy, also by Count Tolstoy, King Solomon, Ohio Chief, Proud Advance, Top Notcher Chief and other noted boars. Besides these there are daughters of old Pericles, Advance Dandelion, Claremont's Model, American Royal and Crimson Critic. There is a splendid Ohio Chief sow in this sale out of a daughter of Belle's Perfect King, and she is bred to Crimson Chief Again for an early litter. There have been some good brood sow sales held from this farm, but Mr. Lee Cantine never put up a better lot of brood sows that he is selling in this sale. The blood of old Pericles, old Tolstoy and Crimson Wonder made this herd famous in earlier years, and this herd has always kept in the front of the procession. There will be a cracking lot of gilts in the sale sired by Crimson Wonder Jr. and Count Tolstoy and they are mostly bred to farrow in early March. Write for Mr. Cantine's catalog at once and be sure to attend this sale. It will follow the Edmonds, Shade & Co. sale the day before and every arrangement will be made to get the breeders to the farm from the Shade sale. Bids sent to our Mr. M. T. White, in care of Mr. Cantine, will be attended to on sale day. See advertisement on page 51.

EDMONDS, SHADE & CO.'S GREAT COL. BRED SOW SALE.

On February 3d, at Kingsley, Iowa, Messrs. Edmonds, Shade & Co. will sell fifty head of Duroc Jersey bred sows, and it promises to be the greatest sale of Col.-bred sows that has ever been held in the West. This firm have put up some great offerings in previous sales, but we believe we are strictly within bounds when we say that they have never sold such an offering as this in any sale heretofore held at their famous Shadeland Farm. The boar now at the head of this herd is Carl's Col., the sire of the great boar, Prince of Cols., and in turn he is the grandsire of the great King of Cols. He is one of the greatest sires of the Col. family living and there will be fifteen sows in the sale that are bred to him and this will be the greatest opportunity ever offered in the West to get this line of breeding. A sow bred to Carl's Col. will be a great money maker for a great many of the breeders throughout the West and as the old boar is getting somewhat along in years they should not overlook this opportunity at this time. Another great boar that they have used is Col. Scott, a son of Carl's Col. He was champion boar at the Indiana State Fair, 1907, and he is a full brother to Col. Gladness, first at Ohio State Fair, 1906. He is also a full brother to the great boar, Prince of Cols., and he also traces back to the World's Fair champion sow, Doty. There



will be ten head of sows in the sale bred to him and this will be outstanding breeding. Then there will be ten head in the sale bred to Iowa Notcher, one of the best show and breeding boars today in the West. One of the highest-priced gilts sold so far this year was sired by Iowa Notcher and his get are now being much sought after by the best breeders. There will be five head in the sale bred to Shadeland's Col., a son of Prince of Cols. 2d, running back to Ohio Chief on the dam's side. Another good young boar they have used this year is Defiance, a son of King Solomon, and he is one of the best young boars used this year. There will be quite a few sows in the sale bred to him. Nearly every sow in the sale is a top sow. Just look at the list for a minute: Three daughters of the noted Prince of Cols., and all good ones; three daughters of Ohio Chief, and every one a topper; also daughters of Ed's Col., Carl's Col., King of Cols., American Royal, Tientsin, Proud Advance, Crimson Wonder and Crimson Wonder Jr., G's Col., Prince Wonder, C. H.'s Special, Savannah Chief, Tolstoy, Inventor, Iowa Notcher, King Solomon, High Ball and other noted sires. We might write whole volumes regarding this offering if we were to take up the various individuals that they will sell in this sale, but we are going to ask our readers to send for the catalog and then they can study their offering at their leisure. We will say to Homestead readers that they never before sold such a grand lot of sows as they are offering in this sale, and never before has there been a sale in the West that has offered such a line of Col.-bred sows and bred to such noted Col.-bred boars. There isn't a better judge in the West than Mr. Shade and he has spent a lot of time and money in getting together this great offering. When writing for catalogs kindly mention

The Homestead. Our Mr. M. T. White will represent this paper at the sale and will attend to any bids sent in his care. See page 49.

PHILLIPS' POLAND CHINAS.

We cannot refrain from calling the attention of our readers to the public sale of Poland China brood sows which Mr. C. W. Phillips, of New Sharon, Iowa, will hold on February 9th. There will be no better sale offering of the breed this year. They are right from start to finish, great big, strong-boned, good-footed fellows with style and finish. Look out for the advertisements that come later in The Homestead.

GOOD SCOTCH BULLS FOR SALE.

On page 52 of this week's Homestead we begin the advertisement of Mr. W. H. McLaughlin, of Shelby, Iowa, one of the best-known breeders of Short-horn cattle in western Iowa. He is offering a choice lot of young Scotch bulls for sale sired by American Goods, a son of Imp. Choice Goods, and Baron Kear 3d. These bulls will do to head good herds and he is now pricing them where anybody can afford to buy. Write him at once and mention The Homestead.

LAST CALL FOR S. J. MADISON'S BROOD SOW SALE.

On January 26th, at Nevinville, Iowa, Mr. S. J. Madison will make his annual brood sow sale and he will put forty good sows and gilts through the ring. Mr. Madison is recognized as one of the best feeders in the state and he never fails to put up a good offering. Valley King 81311 by Valley Chief, dam Allen's Maid Again by Top Notcher Again, is the senior herd boar and he is a hog that has been making good in this herd. His get in his fall sale were the best seen anywhere, and his sale was among the very best of the year. This boar is now looked upon as one of the best breeding boars in the state and he certainly has been making a good record in this herd. He will be bred to a great many of the sows in this sale and some of his get will also be sold. Among the good sows will be a splendid daughter of Crimson Wonder Again, bred to Valley King, and she is a good sow. A Valley Chief sow bred to Iowa Model and a Valley King gilt are good attractions, as are also two January 23d gilts by C. G.'s Choice Goods, and these are bred to Valley King. There are several of these Valley King gilts in the sale and they will all speak for themselves when the breeders see them. Fancy Mist, an aged sow, by Madison's Proud Advance, is a good proposition. This sow was the dam of the \$400 litter by Valley King in the fall sale and she is rebred to the same boar. Here is a good brood sow, possibly one of the best money makers Mr. Madison has ever owned. There will be three daughters of Madison's Proud Advance in the sale and one splendid spring gilt, and all are bred to Valley King. There is also a good Proud Advance sow bred to Valley King in his offering and three choice gilts by Savannah Belle's Chief. You cannot go wrong if you attend the Jess Madison sale, and he will show you a bunch of hogs that will surprise you. Write for his catalog and then go to the sale. When writing him kindly mention The Homestead. See advertisement on page 63.

LONERGAN'S GREAT POLAND CHINA SOW SALE.

On February 4th, at Florence, Neb., that well-known breeder, Mr. D. C. Lonergan, will offer forty-five head of the best Poland China brood sows that will be sold west of the river this winter. It is an offering that will meet every expectation of the western Poland China breeders, because this offering has both size and quality combined. There will be forty-five head in the sale—twelve very choice fall sows, a few matured brood sows and about twenty-five or thirty spring gilts. At the head of the Lonergan herd stands the splendid boar, Big Victor, a boar that has been a prominent winner at the Nebraska State Fair, and he was also sweepstakes boar at the Interstate Fair, Sioux City, last fall. As an individual and as a sire he ranks among the foremost boars today in Nebraska and his get in this sale will speak for themselves on sale day. There will be about thirty head in the sale that will be either sired by him or bred to him and it will be a rare treat for Poland China breeders, as these sows are good enough to go into any herd. It is a rare offering of fall sows that he is selling—mostly sired by Big Victor and Guy's Price. No. 1 of catalog, a Big Victor sow out of his celebrated old brood sow, Hazel Price, and she is one of the plums of his sale. The dam of this sow, Hazel Price, is also the dam of the noted prize-winning boar, Colossus, now owned by Mr. Ben Bell, of Kansas. Just recently thirty-four sows in the Bell sale bred to this boar averaged \$74. This is a splendid sow and she is bred to L's King, a son of the Nebraska State Fair sweepstakes boar, King's Hadley. No. 2 is a full sister to the above sow, almost as good in every way, and she is bred to Big Tom, an Expansion-bred boar recently purchased of Mr. Shattuck. No. 3 is a great fall yearling by Big Victor out of Side Pocket, possibly the most profitable brood sow he has ever owned. This sow is excellent in head and ear, width of rib and quality of bone and she is bred to Big Tom for an early litter. Nos. 4, 5, 6, 7 and 8 are full sisters, three of them being spring gilts, and they are all bred to Big Tom. Lady Black 2d by Guy's Price out of Lady Black by Young Tecumseh is a full sister to the dam of Orphan Boy. She is a good sow and is bred to Big Tom. Her four full sisters go in bred to Big Victor. The largest fall gilt is by Big Victor and out of Rowena, and somebody who is looking for size will certainly find it in this sow. There are three full sisters to Lady Black 2d in the sale, all sired by Guy's Price and all bred to Big Victor. These are spring gilts. There are two good Guy's Prince 2d spring gilts in the sale out of Brownwood Bess and these are all bred to Big Victor. There will also be seven spring gilts in the sale, all sired by the Nebraska State Fair sweepstakes boar, King's Hadley, and there are some extra choice sows among these that will be good for the more exacting breeders. Just a word in conclusion about his young boar, Big Tom. He is a son of Momentum by Pan Ex. by Pan Jr.; dam Anna Belle by Bell Metal by Expansion. He is a spring boar with an eight and one-fourth-inch bone and was the

top boar in the Shattuck sale last fall. The Lonergan sale is one of the great sales to be held west of the Missouri river this winter. Send and get a copy of his catalog and mention The Homestead when doing so. Mr. M. T. White will represent The Homestead at this sale and will look after any bids sent in his care. See page 50.

OGLE'S BERKSHIRE SALE.

Mr. J. W. Ogle, of Ames, Iowa, will hold his public sale of Berkshires on Friday, February 11th. This is one of the best lots of Berkshires that will be sold at auction this season and Mr. Ogle will be pleased to send catalogs to all who write for same, mentioning The Homestead. In future issues we will give full particulars regarding this sale. Keep the date, February 11th, in mind and plan to be present sale day. See page 60.

C. E. WALDEN'S DUROC JERSEY SALE.

On February 9th, at Washta, Iowa, Mr. Charles E. Walden will make a sale of Duroc Jersey bred sows, at which time he will dispose of one of the splendid offerings of the season. Mr. Walden has built up one of the very excellent Duroc Jersey herds in that section of the state and the sows that he is selling in this sale will compare very favorably with any of the other offerings of the year. Mr. Walden originally secured many of his foundation sows from the well-known Cantine herd, and whenever he bought one it was always one of the best. He is a good feeder and a good care taker and the sows that he is selling in this sale will speak for themselves on sale day. It will be a splendid place to buy sows at a reasonable figure and we urge readers of The Homestead to send and get a copy of his catalog. Kindly mention The Homestead when writing him.

PERCHERON HORSES AT AUCTION.

Attention is called to an important sale of draft horses to be held at Union, Iowa, at Mason's pavilion, on Thursday, February 3, 1910. Messrs. Bales & Hammer, of New Providence, Iowa, are selling a number of Percheron mares and stallions from ten months to nine years old. The firm are dissolving partnership and the horses will be sold without reserve. Messrs. D. H. Farris & Sons, of New Providence, Iowa, also consign two good brood mares and one stallion. Messrs. Seward Bros., of the same place, are selling a three-year-old Percheron stallion that is a prize winner and weighs 2,100 pounds. Mr. J. T. Glenn, of the same place, is selling two Percheron stallions, also one imported English Shire stallion, Mr. D. A. Paul, of Laurel, Iowa, is selling a good, useful brood mare. The entire offering is first class in every particular and they represent the best blood found in the herd books. Union is located on the Iowa Central railway, seventy miles south of Mason City, eighteen miles north of Marshalltown. Address A. P. Mason, Mgr., Union, Iowa. See page 48.

SIX YOUNG ANGUS BULLS FOR SALE.

On page 48 of this week's Homestead we begin the advertisement of Mr. Will L. Coleman, of Corning, Iowa, who is offering six head of good Aberdeen Angus bulls for sale. These bulls will range in age from ten to twenty-four months and are very thrifty and growthy young bulls. Mr. Coleman writes us as follows about them: "These bulls are a splendid combination of scale and quality and should be able to give a good account of themselves wherever they go. Three of them are sired by Maplehurst Hero 3d, a son of old Chansman Chief, a bull that I used for five years with the best of success. The two younger ones are sired by our present herd bull, Erica's Equester 105883, a double-bred Trojan Erica bull bred by Mr. L. McWhorter, of Aledo, Ill. He is a son of Eric 7th of Keilor Park, the bull that was first in aged bull class and grand champion bull of Kentucky and Illinois State Fairs last year. I will make very attractive prices on these young bulls and will also offer a few good young cows and heifers at very reasonable prices." Write Mr. Coleman at once if you want an Angus bull or cows and heifers. Kindly mention The Homestead when writing him.

THE LAST CALL FOR C. E. VEAK'S BROOD SOW SALE.

The Duroc Jersey breeder or farmer who fails to attend the sale of Mr. C. E. Veak, at Essex, Iowa, on January 25th, will miss seeing one of the greatest offerings of brood sows that will be sold this winter. He is opening the Southwest Iowa Circuit with an offering that is strictly first class, both in the way of breeding and individual merit. He will sell forty head of yearling and matured sows and spring gilts and he will also sell his splendid breeding boar, Russell's Critic. This boar is a son of Glendale Critic out of a Gold Dust Jim sow, and he is a breeding boar of unquestioned merit. We have seen the get of this boar in the Veak herd, also in the herd of Mr. E. Z. Russell, at Blair, Neb., and we will say that as a breeding boar he is one of the good ones today in the state. Mr. Veak has so many herd boars he feels like selling Russell's Critic, because he has so much of his get in his herd. He is a proposition for some good breeder to go after. Among the choice sows he is selling is Village Queen, a three-year-old daughter of the old prize-winning Nebraska State Fair boar, Cole's Duroc, and she is bred to the Iowa State Fair boar, Model Prince, for an early litter. Lady Advance 3d, bred to H. A.'s Choice Goods, is also a great sow, as is also his two-year-old first-prize Iowa State Fair sow, Prond 16. She is bred to High Col., a splendid Col. boar, for an early litter and she will be a splendid sow for a breeder to buy. He also sells a good Ohio Chief sow bred to H. A.'s Choice Goods and a very excellent Glendale Critic sow bred to Model Prince. He is selling some very high-class Model Prince gilts, one of which is an exceptionally choice gilt, and she is bred to High Col. There is a fall sow in the sale by the third-prize state fair boar, Proud Ohio Chief, bred to High Col., that is one of the greatest sows he will sell in his sale. He also sells her half sister bred to Model Prince. He sells a good yearling sow by Proud Chief out of the great brood sow, Savannah Chief, bred to H. A.'s Choice Goods. In fact he is putting a very high-class offering from beginning to end. If you want some good Duroc Jersey sows you will not go wrong if you attend

Mr. Veak's sale. If you have not got his catalog send for it at once. Address Mr. C. E. Veak, Essex, Iowa. Mr. M. T. White will represent The Homestead at this sale. Any bids sent to him, in care of Mr. Veak, will receive proper attention on sale day. See advertisement on page 63.

THE WINTERMUTE-ROOD-STEPHENSON POLAND CHINA SALE.

The two public sales of Poland China hogs from the herds of the above mentioned gentlemen take place at Blockton, Iowa, on January 25th, and at Mt. Airy, Iowa, January 26th, and must not be overlooked by those who want big, growthy, strong-boned sorts. Previous information in these columns has given the breeding and at the present time it remains only to assure our readers that all those qualities most desirable in Poland Chinas are represented at these sales. They may be easily attended at one expense. It is, of course, too late to get catalogs now, but buyers should not fail to be present on sale day.

THE GREAT BLOOMINGTON SALE.

So far as numbers are concerned, the great breeders' sale of horses, which is scheduled to take place at Bloomington, Ill., February 1st, 2d, 3d and 4th, as noted on page 56, will be the event of the season. Four hundred and fifty horses have been cataloged for this auction; 350 of them are imported and native-bred registered Percherons, Belgians, French Drafts, Shires and Clydesdales. Anybody may be interested in this sale. There will be 150 head of imported stallions and mares that will land a few days previous to the sale. Another 100 head of imported stallions and mares have been here for a year and are, therefore, acclimated. The managers assert that there will be 150 of the best registered mares that ever went into an auction ring. The first three days will be devoted to the horses referred to above; on the fourth day the consignment will consist of 100 head of registered trotters, grade drafts, saddlers and all-purpose farm horses. The list of consignors is a long one and includes the names of many prominent breeders and importers. Catalogs for this sale are ready and may be had by writing Mr. C. W. Hunt, manager, Arrowsmith, Ill.

LAST CALL FOR WIGSTONE BROS.' BIG-TYPE POLAND CHINA SALE.

On January 28th, Messrs. Wigstone Bros. will make a sale of big-type Poland Chinas at Stanton, Iowa, and it promises to be an offering that will attract those farmers and breeders who are wanting the big-boned kind of Poland Chinas. They are selling twenty spring gilts and twenty yearling and aged sows and it is one of the good offerings of the big-type Polands of the season. Valley View Giantess, bred to the big boar, Grand Growthy, is one of the good brood sows in the sale. They are selling a Long King yearling that is strictly of the big-type kind, and she goes in bred to Prospector 2d. There are several yearling and fall sows in the sale by Prospector and Grand Growthy that will make sows that are big enough for anybody. There are a splendid lot of big, growthy gilts in their sale that are sired by Grand Growthy and Prospector 2d, and they have bone and size enough for the most exacting buyer. In our last issue we went into details on the various individuals in this sale and we don't care to repeat it again this week. We will say, however, to lovers of the big-type, big-boned Poland Chinas that they will find this offering one of the very best of the season. These boys breed for size and bone and as much quality as they can get, and they certainly have what they are advertising. You won't be disappointed in their offering if you go to their sale. If you cannot be present on sale day just write our Mr. C. C. Carlin, Homestead representative, and he will get you a good sow on sale day. Kindly mention The Homestead when writing for catalog. See advertisement on page 59 of this issue.

TOM GOSSARD'S DUROC JERSEY SOW SALE.

On February 2d, Mr. Tom Gossard, of Ponea, Neb., will hold his annual sale of Duroc Jersey brood sows, and he is putting up one of the very best offerings that will be sold in northeast Nebraska this winter. Mr. Gossard, it will be remembered, owns one-half interest in the noted Iowa State Fair winning boar, Proud Chief, a son of Ohio Chief and out of the noted brood sow, Proud Lady. This boar was a winner at the Iowa State Fair in 1907 and was bred and shown by Mr. R. J. Harding. Later on he sold him to Mr. E. Z. Russell and Mr. M. S. Moats for \$1,000 and later on Mr. Gossard bought a half interest in him at public sale for \$775. He has been a splendid sire and now Mr. Gossard is selling eighteen head of his get in this sale. He will dispose of forty head—twenty gilts and the rest yearlings and matured sows. Among these are some well-bred and some very excellent individuals. Among the number are two daughters of the noted boar, Proud Advance, and one of these is a very choice individual. Both of these have been good brood sows and both have daughters in this sale. These sows are each bred to Proud Chief and here is a cross that has done more to bring the Duroc Jerseys into public notice in the West than any other mating that has ever been made. There will be five daughters of Ohio Chief II. in the sale and these are out of Proud Advance and Genevieve sows. These Ohio Chief II. sows are all bred to Proud Chief, making a double-bred Ohio Chief cross, and there are some excellent brood sows among these. Besides these there is one daughter of Missouri Gold Finch, the well-known prize-winning boar that heads the Geo. Blessing herd; one by Reed's Banker, a full brother to Proud Advance, I Am Advance and other well-known boars; four by Perfect Wonder, one by Proud Chief and two by Fashion Plate, a son of Oom Paul Jr. There are about eighteen gilts in the sale that are sired by Proud Chief and these are very choice indeed. There is a splendid gilt by Proud Chief out of Bobbie Advance that has been quite a good prospect. Another good gilt is out of Lily West II. by Oom Paul Jr. A number of other good ones are out of Lady Banker 3d. These gilts are a very choice lot from beginning to end. They are in fine form and they are hard to beat. The breeding of these gilts and their individuality is

hard to beat, and it will be a splendid opportunity to buy a few high-class sows and gilts. There is also a good Gold Dust Jim II. sow in this sale bred to Proud Chief. The offering is strictly all right and will look good to both breeders and farmers. Write for Mr. Gossard's catalog at once and mention The Homestead. Mr. M. T. White will represent The Homestead at the sale. See advertisement on page 50.

OHIO DUROC SALE CIRCUIT.

One of the greatest Duroc sale circuits to be held in the United States this season will be that of the Ohio Duroc Jersey Sale Circuit, from February 7th to 12th, inclusive. In these six sales over 350 bred sows will be sold. The sales are all near Dayton, Ohio, and breeders will make their headquarters at the Phillips House, Dayton, where you will be entertained free. These gentlemen are all old-time breeders, among them men who won premier breeders' championship and premier exhibitor's championship at the World's Fair at St. Louis. The following men compose the circuit: February 7th, Whitehall Farm, Yellow Springs, Ohio; February 8th, Messrs. Watt & Foust, Dayton, Ohio; February 9th, Mr. Ira Jackson, Tippicanoe City, Ohio; February 10th, Messrs. S. E. Morton & Co., Dayton, Ohio; February 11th, Messrs. Mahan Bros., Osborn, Ohio, and February 12th, Messrs. E. C. Steimen & Son, Middlepoint, Ohio. Write each of the above gentlemen for catalog, kindly mentioning The Homestead. Owing to the fact that there will be so many hogs to sell in such a small territory there undoubtedly will be many bargains. Make your arrangements to attend the entire circuit. See page 51.

BALMAT'S ANNUAL SALE.

Messrs. Balmat & Son, of Mason City, Iowa, announce a public sale of Duroc Jersey brood sows to take place on February 2d. The consignment will not be a large one, but it will be one that has quality from start to finish and that cannot fail to interest buyers. Aside from the good things mentioned in our last issue there will also be a splendid yearling, Genno, by Model Chief Jr., dam by Reed's Banker Jr. This is a dandy good sow of correct Duroc Jersey type with size, quality and smoothness, and will have been bred to Golden Model Jr., a good two-year-old; his dam, Grace W., by Jumbo Jack. This is a pedigree which runs back to Protection at several points and the sow is good enough for all that it represents. Her last year's litter was the best in the sale; one of her gilts also goes into this sale. The twenty-five gilts are by Model Improver, O. T.'s Model, Iowa Nother and Iowa Chief. Three of the Model Improver gilts have for dam Iowa Bell by Jumbo Jack. Their granddam was a sow with a great breeding record in the herd and Iowa Bell herself was a winner at the Minnesota State Fair for two years in succession. Four of the Model Improver gilts are from a three-quarter sister to the Iowa State Fair champion sow, Ruberta. The dams of the O. T.'s Model gilts

are Misa Advance, Model 3d (winner of first at the Iowa State Fair and first and championship at the Minnesota and Wisconsin State Fairs and a producer of show pigs), Advance Bell (with some fine, thick, deep, well-finished sows) and Daisy Girl, a sow as good all over and carrying a strong infusion of Tip Top Nother blood. There are two of the Iowa Nother gilts and their dam is that great old sow, Ohio Chief's Girl, referred to at considerable length in our last issue. These sows will have been bred to Golden Model Jr., Nother Chief and Model Improver. Model Improver is the herd boar and one whose pedigree cannot well be improved upon. His sire was Improver 2d and



his dam a daughter of Higgins' Model, that means a great deal to those who are up on Duroc Jersey history. Model Improver, the show hog, took first and championship at the Minnesota State Fair last year. He was the sire of second-prize pigs at the Iowa State Fair, first-prize pig at the Wisconsin State Fair and headed prize-winning herds. Golden Model Jr. was by Golden Model and his dam was one of the best sows in the Olson herd. She was a show sow, as well as a breeder, and the excellence promises to extend to future generations. Nother Chief is a pig by Iowa Nother and his dam by Ohio Chief's Girl, above mentioned. He has an extra good back and was one of the prize-winning Balmat show herd last year. By the way, they showed at the Iowa, Minnesota and Wisconsin State Fairs and came home

DUROC JERSEY SHOW SOW, LULU WONDER.

Live stock breeders everywhere and at all times are naturally interested in those specimens of the breed which give promise of sufficient merit and breed excellence to become prize winners in the competition of live stock shows. This condition is one of the greatest importance because it succeeds in bringing out animals having characteristics most desirable in each breed and with the greatest promise of reproduction of these qualities. We give herewith an illustration of the Duroc Jersey sow, Lulu Wonder, owned by Mr. Geo. H. Purdy, of Mason, City, Iowa, and included as a leading feature in his herd dispersion which takes place at Mason City on February 3d, as advertised on page 61. Lulu Wonder is a show sow, as her picture would indicate. She is good enough to interest any breeder and for two reasons: In the first place, she has all the points that go to make a winner in strong show rings; in the second place she has brood sow character and has proven herself a producer. Oftentimes the apparent qualities of an animal are purely accidental or freaks in the work of nature. In this case the high excellence of Lulu Wonder is a matter of scientific breeding. She is a daughter of that great sweepstakes hog, Crimson Wonder Again, and he, it will be remembered, is not only a son of a sweepstakes winner, but a grandson as well, and his get have made phenomenal winnings at the Iowa and Nebraska State Fairs. Not only have they done this one year, but for a series of years in succession. So much for the breeding of the sow on the side of the sire. On the side of the dam it is no less interesting and important. She was a daughter of Proud Advance, a champion at the Iowa State Fair and a full brother to other hogs that have won some honors in different years and he was by that great old breeding hog, Advance, that produced probably



a larger number of state fair winners than any other hog in the state of Iowa during the same time. We wish there were space at our command to go further into the details of this pedigree, but the above should be sufficient to breeders who know their business. Now we want to impress upon breeders the fact that this is one of extraordinary merit and one that should be a credit to any herd in the state. She farrowed a litter of nine pigs last year and is bred for an early litter this year to Chief Select, the Colonel boar mentioned in our last issue. She will be two years old in March and, therefore, just at the most promising age to go into the aged classes at next year's fairs. She has a wonderfully well-arched back, wide at the loin and without fault in rib or heart. She has a deep, smooth side, straight legs, as indicated by the picture, and feet that would please anyone. A most highly attractive feature is the head and face. Her head is wide, eyes plain and prominent and ears set out and nicely tipped in a way that permit the whole face to be seen at a glance. She has already proven her quality in the show ring, but has made wonderful development since that time and is a candidate for high honors, if rightly treated, this fall. While we must insist that breeders take notice of this sow we would have them understand, however, that she is only one of the many splendid animals that have been cataloged for that sale. Some younger things have almost as much promise and need only the careful hand of a fitter to make them winners in strong shows. Breeders who are interested in the sow above mentioned should not fail to attend the sale. Those who cannot do so may entrust any instructions with regard to her or other animals in the sale to Mr. C. C. Carlin, of The Homestead, who will be in attendance at the sale. Catalogs may be secured by addressing Mr. Geo. H. Purdy, Mason City, Iowa.

with a total of thirty-six ribbons. Three of these were championships and fifteen of them were first prizes. This will be a great sale of good stuff and every reader of The Homestead who is interested in Duroc Jerseys should make it a point to be present. Remember, it takes place at Mason City, Iowa, February 2d, the day previous to the Purdy sale. For catalogs write to Messrs. Balmat & Son, Mason City, Iowa. See advertisement on page 61.

HUMMER'S CHESTER WHITE SALE.

On account of having sold this farm, Mr. A. A. Hummer, of Keswick, Iowa, will disperse his noted herd of Chester White swine on Wednesday, January 26th. This is an important event in Chester White circles and is deservedly so, owing to the fact that this herd has done much to improve the quality and individual merit of many of the good herds of the middle West through use of boars produced on this farm. The aged sows and yearlings are in many cases tried brood sows and the gilts will meet with appreciation at the hands of discriminating buyers. The advertisement on page 60 gives information concerning the offering and the catalogs will be sent to all who write for same, mentioning The Homestead. Plan to be present at this important sale, as the offering merits the attention of farmers and breeders desirous of improving their herds. Keswick is on the Muscatine and Montezuma branch of the Rock Island railway and is three miles from Webster on the Marion and Ottumwa branch of the Milwaukee railway. Excellent connections can be made for Keawick from either morning or evening trains in either direction from Webster. Remember the date, January 26th, and arrange to be present. Bids sent to Mr. Dante M. Pierce will be properly handled.

BUTTERFIELD'S DUROC SALE.

The third day of the Golden Model Circuit, Wednesday, February 2d, Mr. F. B. Butterfield, of Ankeny, Iowa, will offer for sale in heated pavilion, in the city of Ankeny, twelve miles north of Des Moines, thirty-five head of richly-bred Durocs. There are ten yearling and aged sows and twenty-five gilts that will please discriminating buyers and that should prove profitable investments in the hands of both farmers and breeders. There are daughters of Tintensin, Keep On 2d, Nebraska Belle's Ohio Chief, I Am Advance, Model Chief, Ohio Crimson by Ohio Chief, Advance Chief, Model Chief VIII, Sells' Crimson Wonder, Nother Jr. by Iowa Nother, Ankeny Chief and Perfect Col. by Prince of Cols. They are bred to Golden Col., one of the best sons of Chief's Col., the grand champion boar at the Illinois State Fair, 1908, and Nother Jr. by Iowa Nother. Individually the offering should appeal to buyers who want good brood sows at reasonable figures. They have been selected with care as to their usefulness and those posted on show-ring records will note with interest the blood lines represented. Write for catalogs, mentioning The Homestead as per advertisement on page 49 of this issue, and watch for further particulars in our next issue. Bids sent to Mr. Dante M. Pierce will be properly handled. Plan to be present sale day.

LAST CALL ALLDRITT'S DUROC DISPERSION, JANUARY 25TH.

In the forthcoming dispersion of the Duroc Jersey breeding herd of Mr. Frank Aldritt, of Friend, Neb., on January 25th, will be many valuable brood sows and gilts and bred to a pair of very choice sires. Mr. Aldritt will sell seventy-five head and his herd is very strong in the blood of Crimson Wonder, Ohio Chief, Imp II., Higgins' Model, Tom Davis, Medoc, Glendale Critic and others of leading sires of the day. Billy Davis, the present herd boar, is a son of Tom Davis out of a daughter of Medoc and Rosebud Lady and is recognized as being one of the strongest boars in the state, and barring any accident should fit well for this fall. Sons of Tolstoy, Ohio Chief, Model Chief have each been used consecutively with much success. The other boar to whom a number of good sows are bred is Crimson Wonder Jr., a pig by I Am a Crimson Wonder, the sensational spring boar of 1908 at Iowa and Nebraska and out of an Orion-Junior Jim-bred sow. In the sows there will be forty-two head of aged sows and fall yearlings and thirty-three gilts, and included among the sows is Glendale Maid, a three-times sweepstakes winner; Red Bud I. by Medoc, out of Rosebud Lady by Van's Perfection, also several daughters of Glendale Maid, a daughter of Billie K. out of a sister to Proud Advance; Junior Jim Bob, an Orion-Junior Jim-bred sow, and many others too numerous to mention in detail. The offering of gilts is fully up to all that may justly be expected from a man who grows his stuff well and whose stock carries such royal breeding. The catalog is now ready and may be had upon application to Mr. Frank Aldritt, mentioning The Homestead. Bids sent to Mr. Fred Larkin, of The Homestead, will be handled properly. See page 62.

O'LEARY'S HEREFORD SALE.

On Monday, January 31st, Mr. D. S. O'Leary, of Iowa City, Iowa, will offer for sale at public auction, in heated sale pavilion at West Liberty, Iowa, fifty head of richly-bred Hereford cattle, consisting of thirty-five cows and heifers and fifteen bulls. The herd has been established for more than six years and in securing the foundation stock Mr. O'Leary was careful to secure first of all an outstanding bull. In placing Improver's Hesiod at the head of his herd he acted wisely. This is probably the last living son of Imp. Improver and as there are about seventeen cows in the sale with calves at foot by him and equally as many more in calf to him it is readily seen what an excellent lot of Herefords Mr. O'Leary has cataloged. The females include daughters of Mark Hanna, Kansas Lad Jr. by the great Kansas Lad, the bull that made the herd of the late K. B. Armour famous; Ben Hesiod, recognized as one of the best sons of Hesiod 17th, conceded to be one of the greatest sires of females ever owned in the middle West; Imp. Vanguard, one of the best bulls bred to Arthur P. Turner, of Pembroke, England—a son of Statesman and out of a dam by Merlin, one of the good sons of The Grove 3d; Boatman, Fulfiller, Thickflesh, Beau

Brummel, Andrew, considered by critical judges the best son of the noted bull, Eureka; Perfection Yet, a son of the \$12,000 bull, Perfection. Perfection Yet is the sire of a large number of the younger females and likewise of several of the bulls. It will readily be seen by those conversant with Hereford pedigree that the offering is representative of the leading families of the breed. There are three two-year-old bulls listed, while the balance are yearlings and a number of them should find ready sale at the hands of those who are in search of herd bulls. Mr. O Leary has not overfitted the cattle for this sale, but is placing them in the sale in good breeding condition, which is to the buyers' interest. Write for catalog, mentioning The Homestead, as per the announcement on page 50 of this issue and arrange to be present sale day. Further particulars regarding the sale will be given in our next issue.

PAUL'S BROOD SOW SALE.

Mr. F. G. Paul, of Marshalltown, Iowa, will sell Poland China bred sows at public sale, February 8th. He sells the big kind. He has them because he raises them that way, from strains that have always been noted for size. He believes he has as much quality as the best of them, too. Some facts as to numbers and breeding are given in the advertisement on page 48. The herd is largely based on the family of Modesty sows that, in the hands of that veteran, Mr. Jacob Grossman, gained a wonderful reputation for the qualities now most in demand. One of these sows sells. She is Modesty On, a great sow for size, grandly-arched back, deep and wide body, legs on the corners and general goodness of makeup. She is a business sow, too. She farrows nine pigs twice a year and raises them. She has four April gilts in this sale that are corks, even as peas, smooth as silk and of great promise. The dam of the old sow is a granddaughter of Mr. Grossman's old Nelson. She topped Mr. Paul's sale two years ago, and one of her gilts also topped one of his sales. The buyer later said she was the best sow in his county. Further information will be given in a later issue of The Homestead. In the meantime send for a catalog. Address Mr. F. G. Paul, Marshalltown, Iowa.

OLSON'S DUROC SALE.

The opening sale of the Golden Model Sale Circuit will be held at Woodward, Iowa, on Monday, January 31st, at which time thirty-five head of richly-bred Durocs will be sold by Messrs. Olson Bros., of Woodward, Iowa, and O. A. Olson, of Madrid, Iowa. These are representatives of leading families and the fact that a majority of the offering are bred to Golden Model is sufficient to attract the attention of those interested in improving their herds. Just a word about Golden Model: He is the sire of Golden Model II, first-prize and champion boar at leading state fairs, 1909; Model Top, first prize and grand champion at Kentucky and Tennessee State Fairs, 1909, and a prize winner at Iowa State Fair, 1908; Model Again, prize winner at Iowa State Fair, 1909. The sons and daughters and grandsons and granddaughters of Golden Model won over 100 premiums, including many first prizes and championships at the leading state fairs of 1909, a record never equaled by any boar of the breed, living or dead. Should this not interest the farmer or breeder of strictly good swine? In our next issue we will give full information concerning this good offering, but in the meantime would urge readers to get catalogs as per the advertisement on page 49 of this issue, kindly mentioning The Homestead. Bids sent to Mr. Dante M. Pierce will be properly handled.

WHEELER DISPENSES "TABLE-BACKED" HEREFORDS.

One of the great opportunities offered in the West this winter to buy Hereford cattle will be at Harlan, Iowa, on February 10th, when Mr. W. W. Wheeler will dispense his noted herd of "table-backed" Herefords. There will be forty-five head of cows and heifers in the sale and twenty-five head of bulls, and it will be one of the greatest bull offerings that will be put up this winter. Mr. Wheeler writes as follows about this offering: "I have sold my farm and have to give possession March 1st. Here is a chance to buy such cows as Imp. Victorine 3d by Clarence, Imp. Quince by Barry, Imp. Mayoreess by Majestic, Imp. Kenswick Rose 4th by Ignition, Imp. Garland by Britisher, Imp. Dowager by Spartan, Rosetta by Beau Brummel, Peggy Primrose Jr. by Albert, Lady Hesiod 3d by Hesiod 17th, the \$40,000 Armour Sunflower by St. Louis, Lady Columbus 26th by Columbus, Delight by Gentry Britton, Camille by Grove Cherry Boy 2d. These cows cost me from \$475 to \$1,000 each and they have made a fortune for me and they will make the buyers independently rich. Several of them have calves at foot by Beau Donald 37th and they are bred again to Beau Donald 72d. There will be an endless amount of sons and daughters of Beau Donald 37th in this sale, and lucky will be the breeder who gets my great breeding bull, Beau Donald 72d. Ten head of Beau Donald bulls. I am going to offer in a day what has taken me a lifetime to accumulate. The man who fails to attend this sale will regret it all his life. Send for catalog. I invite everybody on earth to spend February 10th with me."

GEO. SCHMAL'S DUROC OFFERING.

For his first annual sale Mr. Geo. Schmal is making a very strong offering in his sale on February 1st, at Sutton, Neb. There will be thirty-three head, twelve tried sows, five fall yearlings and sixteen gilts. They are bred to his two herd boars, Red Top and Kant Be Better. Red Top is a valued son of Echo Top, out of Miss Advance, a litter sister to Proud Advance, and Kant Be Better is a son of Kant Be Beat and out of Red Molly by Billie K. Among the sows included is Red Lady by Red Reuben, out of the grand old brood sow, Sutton Lady. A good producer and a valued addition to any herd, May by Imp III., out of Paragon by Red Knight, is a good breeder also included. Miss Fancy by Commodore Lad by Commodore and her dam, Queen of Norfolk by Jack Orion, he by Orion. These are just a few of the choice sows. The gilts are by Red Top, Davis Chief, Echo Top and Farmer Burns and are a smooth, even lot with good bone and feet and good bodies and are a profitable sort all

through. Catalogs are now ready and may be had upon application. Mr. Schmal is a man richly deserving the patronage of anyone seeking good breeding stock. The chances are for the best of the breed at very long prices. Secure a catalog, now ready. Bids should be sent to Mr. Fred S. Larkin, of this paper, in Mr. Schmal's care. See announcement on page 49.

MOSSMAN OWNS PRINCE OF COLS.

We are pleased to report to our readers that Messrs. A. L. Mossman & Son, of Radcliffe, Iowa, whose public sale of Duroc Jerseys will be held on Monday, January 24th, are owners of the noted sire, Prince of Cols. They recently purchased this great boar at a long price and are to be congratulated on their purchase. Prince of Cols. is one of the greatest sires the breed has ever known. He has demonstrated his worth to Duroc breeders in producing such boars as King of Cols., Munee Chief, B. & C's Col., grand champion Iowa and Illinois State Fairs, 1909; Col's Prince, Freed's Col. and many others of note now doing service at the head of some of the strongest herds of the country. His sons have sired many of the prize winners at leading shows and were it possible to enumerate the winners of the show of Indiana, Ohio, Kentucky, Illinois and Iowa State Fairs on the sons, daughters, grandsons and granddaughters the list would be an imposing one. Prince of Cols. will be on exhibition sale day, next Monday, January 24th, at Messrs. Mossman's sale, and a limited number of sows will be sold with breeding privilege to this noted sire. Plan to be present on that day at which time there will be sold at public auction forty head of as richly-bred sows, individually in keeping with the blood lines represented, as will be sent through a sale ring this year. Bids sent to Mr. Dante M. Pierce will be properly handled. See advertisement on page 62 of this issue.

LAST CALL CURRENT'S DUROC SALE.

When it comes to getting bone, size and quality without sacrificing feet or constitution, none can show Mr. T. J. Current, of Hildreth, Neb., a great deal, as we believe his sale of the 27th of January is an offering that will bear us out in all such statements. Mr. Current's offering is not large, but makes up in quality. He is only selling thirty head, three fall yearlings, one aged sow and twenty-six gilts. The aged sow, Beautiful One, is of Orion-Proud Advance breeding and dam of a 1908 prize-winning gilt and bred for an early litter to a useful sire, Ella's Choice, the great show and breeding sow he had at Lincoln this fall, has four daughters in the sale sired by Jumbo Jr., a winner of first prize at the Nebraska State Fair twice. Royalty 4th is a daughter of Kant Be Beat and Royal Lass II. has four good gilts by Kant Be Beat Jr. that are growthy, and a bid placed on them will prove profitable if it lands one of them. A couple of good gilts are by Echo Top and out of Rosebud Lady Improved, making them three-fourths sisters to Mr. Van Patten's famous show litter of 1908. Others in the sale are by Farmer Burns, Jumbo Jr., Inventor and are bred to the good herd boars, Rosebud's Echo and Inventor. The former is an Echo Top-Rosebud Lady-bred boar, the latter a valuable son of Inventor. Anyone who cannot attend should be represented, as this is one of the topmy offerings, and a mail bid is sure to land a good one. Send for catalog, now ready, and plan to attend. See announcement on page 62. Bids should be sent to Mr. Fred Larkin, in care of Mr. Current.

DISPERSION SALE OF SHIRES, FRENCH DRAFTS AND PERCHERONS.

An important dispersion sale of Shire, French Draft and Percheron stallions and mares will be held at South Omaha, Neb., on Monday, January 24th, by the Union Wrecking Company, of Des Moines, Iowa. Twenty-six head are listed, including all of the prize winners at the Iowa State Fair, the only show at which they have ever been exhibited. The offering has been described by the sellers as follows: "We offer all our registered Percheron and French Draft stallions and mares in this sale, as we are selling out our farm. They are a splendid lot and we believe will prove a profitable and satisfactory investment to those who buy them. We believe we have some of the best American-bred horses ever offered for sale. They have not been pampered in any way. The mares have been doing farm work and are only in good, ordinary condition. For that very reason they are a splendid investment for the farmer, as they will do his work and raise him a colt that will pay big interest on the investment every year. We bought good mares when we started and we know that it pays. Some years we have sold the colts for much more than the mares cost us. The stallions in this sale are an excellent lot. An excellent breeding Shire stallion is offered in Imp. Bramhope Fawcett, as his colts will show. If you want to buy a stallion you'll make no mistake in those we offer. Get a few of your neighbors to go in with you and attend our sale. You'll be able to buy right, both as to quality and price. Our sale catalog tells all about the offering." Look up the announcement on page 54 of this issue and plan to be present on Monday, January 24th, at South Omaha. Please mention The Homestead when writing. This is one of the best opportunities of the year to secure stallions and mares of the above named breeds at your own figures.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago, Union Stock Yards, Jan. 17.—Closing trade in beef steers last week was on a firm basis with the corresponding time of the previous week. Top was \$8.10 and bulk of selling at \$5.40 to \$6.65. Most of the butcher cows and heifers sold at \$3.60 to \$5.00, while canners and cutters went largely at \$2.60 to \$3.25. Bulk of bulls at \$4.00 to \$5.15. Trading in stockers and feeders was largely at \$4.35 to \$4.85 for the latter offerings and \$5.50 to \$4.25 for the former.

HOGS MAKE \$9.05.

It was an up-and-down market for hogs

last week. Under light receipts on Friday sellers boosted prices to the highest level known for this time of the year, and were \$1.00 above 1882. A top price of \$9.05 was being obtained by Clay, Robinson & Co. of selling at \$8.70 to \$8.95.

UNEVEN MARKET FOR SHEEP.

Last week's trade in sheep and lambs was very uneven. Prices would go lower one day, only to be boosted higher the next. This was due to either liberal or light supplies. The general demand was good and prices late in the week were about as high as at the close of the previous week. Top lambs made \$9.00, this price being obtained by Clay, Robinson & Co. Bulk of sales for the week were at \$8.00 to \$8.75. Most of the yearlings landed at \$7.25 to \$8.15. Summit on sheep was \$6.25, obtained by Clay, Robinson & Co., with sales of ewes and wethers in main at \$5.25 to \$6.00.

SUMMARY OF 1909 TRADE AT CHICAGO—NATIVE BEEF STEERS.

The year 1909 goes down into history as one long to be remembered by the cattle feeders. New history was made in prices. In spite of the high cost of feed, those who were courageous enough to fill up their feed lots were well remunerated. What a contrast with most of 1908! General prosperity camped amidst the meat-eating people and they created a remarkably broad outlet for beef. An average price of \$6.35 for beef steers during the year just closed was never before recorded, and stood 25c above 1908 and 15c higher than the previous high year—1902. A new top figure was also paid in the open market, when Clay, Robinson & Co. sold a load of the Foster Bros. beefs from Iowa at \$9.50, being 20c per cwt. higher than any previous sale. Prosperity extended from the feeder of prime matured corn-fed beefs down to the party who never even permitted his cattle to extend their acquaintance beyond the society of grass. The months of August and September proved the highest of the year, the average price being \$6.75, against \$5.85 in February, low month of the year. Only in one month was there serious domination of the market by the buyers. That was in the middle of December, when feeders flooded the market with offerings and prices dropped 50c to \$1.25 within the short period of ten days. However, this unwise liquidation soon ceased, and a good part of the break was repaired in due time. Perhaps never in any previous year were so many steers in plain and medium flesh sent to market as during 1909. There was a good reason. In most months buyers paid relatively high prices for light and handy-weight steers and then the high cost of feed rendered feeders very timorous. This made the available supply of choice to prime beefs about the smallest in the annals of the trade. Yearling cattle, where fat, again met with high favor of the buyers. In fact, they sold snug up to prime matured beefs, if fancy. In two months—June and July—fancy yearlings outsold prime heavy beefs.

HOGS.

It is necessary to turn back the pages of history twenty-seven years to find a time when the average price of \$7.40 for hogs in 1909 was eclipsed. As compared with 1908 there was an advance of \$1.70. Revival of industrial activity and the smallest runs since 1904 were the factors that brought prosperity to hog producers. A top of \$8.75 was paid in December, not beaten since 1882 and the highest in modern packing times for the last month of the year. The initial month of the new year proved the lowest, with an average price of \$6.10. However, the advance from then on was not interrupted until August, when the average stood at \$7.75, against \$7.85 in July, which was the highest for the first seven months. Yet buyers were unable to resist the inevitable. The average shot up to \$8.20 in September, fell back to \$7.75 in October, only to steadily rise from then on, making \$8.35 in December, the highest in modern packing times. This was in striking contrast with the December average of \$4.70 two years ago. Buyers predicted \$7.00 for swine in the last two months of the year, but their expectations fell from \$1.00 to \$1.35 shy of realization. In the first place there were not the hogs in the country to make an old-time winter rush of shipments and in the second place producers had gotten a familiar acquaintance with \$7.50 and \$8.00 swine and they refused to sever the relationship.

SHEEP AND LAMBS.

New history was made in the lamb trade during 1909. The rangeman prospered and the feeder made money. Never before were such high prices realized. An average price of \$7.30 for lambs was 30c above the previous record average of 1907, and 95c higher than 1908. Top lambs reached \$9.90. Clay, Robinson & Co. landed the Trimble and Doty Colorado-fed offerings at this figure, which was 65c per cwt. higher than the previous record price in 1907. Shorn lambs made \$8.90, a new high price and was obtained by Clay, Robinson & Co. for Colorado-fed offerings of the Trimble & Threlkeld feeding. Mexican yearling wethers brought \$8.15, a record figure by 15c per cwt. No new records were made in the ewe or wether departments. However, the general average price of \$4.95 was 30c higher than 1908 and compared with the record average of \$5.25 in 1907. Summit on sheep was \$7.00, the highest since 1907, when \$7.25 was paid. October proved the low month of the year, the average for sheep being \$4.35 and for lambs \$6.50. May was the high month, average prices being \$6.00 and \$8.10 for sheep and lambs respectively.

A Word to Farmer Old Folks.

To the Editor of The Homestead:

As old age comes on and the powers of life begin to wane, the farmer who has spent many years of happiness and prosperity on the farm is apt to turn from the duties of farm life to what he thinks will be an easy, quiet life with his children or move to town to spend the remainder of his

days. Often his wife is just as anxious to get away from the irksome duties of the farm as he is, so they plan to divide up the farm among the children or sell out altogether and move to the nearby town.

No greater mistake can be made than for the farmer to divide his place among his children expecting them to care for the old folks. He should keep possession of it until he lays down to sleep the last long sleep, then he should leave it to his wife her lifetime. I know a man and wife who turned their farm over to their two sons who gave them only a verbal promise to care for them the remainder of their days. In six months after the farm had been deeded to the two boys they married, and soon afterward there was no place in the old home for father or mother. They were compelled to go to the homes of their daughters who had married well, and the girls treated them nicely, although they had received no share of the home place. Of course the remainder of the lives of these two old people was filled with vain regrets. They could not correct their mistake. There is some truth in an old adage, "If a man gives away his property before he is dead, might as well take a stick of wood and hit him on the head."

If the old folks are not able to do the work of the farm, rent it or part of it at least and live a retired life where the surroundings will not be so different to what they have been accustomed.

So I would say to all the old folks, keep what you have earned by your hard work and rigid economy and let it bless your old age with the necessities and comforts of life. The world will think more of you, and your children will give you honor.

Now, a word to the aged farmer who would move to town to live a retired life and to enjoy the last days. I fear you are making a mistake. Someone has said that the average life of the farmer who moves to town is only eight years. Why does he not live twenty or thirty years more? He is comparatively strong and not more than sixty years of age. I will tell you. The sudden laying down of daily tasks and the breaking away from the old life is too great a shock to the system. Probably he ate very heartily on the farm. For forty years his morning, noon and evening meal has been a very liberal one. He was going early and late and he was able to digest all he ate. Now he eats just as heartily and soon develops a case of severe stomach trouble.

Then, too, on the farm he was accustomed to rise very early. This has gotten to be a habit. He can't break it now very easily after forty years. So he gets up at five o'clock, and as he has nothing to do, spends the long day in fretting. His wife who was used to attending 200 chickens, the milk from four cows, and doing other outdoor work, such as hoeing in the garden, is now shut up in the house to worry because she has no outdoor work to do. The social life of the town has no attraction for her, so she becomes a real "shut-in." The old folks may find some comfort in reading, but as they have never read largely, that pastime consumes only a few of the many long hours.

So again, I would say it is better for the old folks to stay with the farm, rent out the land, and do only what they are able.

W. D. Neale.

The Farmer and His Neighbor.

To the Editor of The Homestead:

Ordinarily the relations of the farmer and his neighbor are pleasant, but there are times and occasions when it seems that patience must give out and a different attitude adopted. There are farmers and farmers and neighbors and neighbors. Some years ago a farmer discovered that his neighbor's cattle got out and broke into his field. It doubtless made him very angry at the time, but he smothered his wrath and went to his neighbor and said: "Your cattle got out and are in my field. I came to ask you to help me drive them home." The neighbor was glad he had told him and that ended the affair. Some time after this the farmer's pigs got out and got into his neighbor's field. The neighbor said nothing and tried to drive the pigs home. Then he went to the farmer

and said: "I am sorry, but your pigs got out and a in my field. I tried to drive them home, but I can't do it alone; you will have to help me." They drove the pigs home. The result of these two incidents was that the farmer and his neighbor lived side by side for years and were always the best of friends. How different their relations might have been if either had flared up, went to law about it and started an enmity that the years would only serve to embitter.

One day a farmer noticed that several of his calves were missing. He immediately suspected that his neighbor had stolen them and came to town to have the law invoked. He came to a good friend of his and asked his advice. The friend said: "I wouldn't go to law about them calves. You remember the famous Jones county calf case? Well, my advice is to go home and take things cool." It took considerable reasoning to induce the farmer to do this, but finally the farmer consented. A few days later imagine the farmer's surprise when he discovered the missing calves with the rest of his stock. They hadn't been stolen at all, but had wandered off to some other part of the farm. To this day that farmer is thanking his lucky stars that he took his friend's advice.

Personal feeling should have no part in making a person judge his neighbor too rashly or too severely. The best way is to take matters cool and only insist on your rights with gentleness, but firmness. It's always best to be agreeable if possible. When the hour of sickness and trouble comes then the helping hand of the neighbor is a benediction indeed. In speaking of Newport as a society center, Geo. Wm. Curtis contrasts the city with the country and shows how much purer and closer the relations are in the country. It is right it should be so. Good citizenship, right living and high thinking, to mention nothing of the fairest success comes from a spirit of proper charity and helpfulness. Above all no bearing of false witness, but the free and untrammelled right to live and let live. In fewer words: "Treat your neighbor as you would like to have your neighbor treat you."

Iowa A. F. Klinkner.

Some Farmisms.

To the Editor of The Homestead:

A neighbor of mine was locally celebrated for many years for his great capacity for egg production, or at least his hens were. He was an old settler in Nebraska and had lived through the days of straw stables, chicken houses and sod mansions. He used to cut poles from his timber, make a frame about eight feet wide, four and six feet high, its length being varied by the number of his hens. This was covered with straw at thrashing time, except at the front, facing south, which was rigged up with old muslin and discarded windows. At the end of each season the posts were removed to a new location and the straw burned. The way his hens laid was a caution to ducks, but recently he built a new house and barn and an old straw poultry house looked out of date. So he built a new and up-to-date one last fall, with all modern improvements, hot and cold water, etc., and he says he hasn't had a blasted egg this winter.

Notwithstanding the fact that Nebraska is well up in the production of butter and cream, its relative-per-cow production is well to the bottom of the list. There are signs of reformation in this line, however, and a man who brings on a Jersey, Guernsey or Holstein bull is now only subject to social ostracism, where formerly they used to hang him. Maybe the farmers' wives objecting to buy the family groceries out of the dairy proceeds of beef cattle has something to do with it.

Through the eastern part of Nebraska the spectacle of the retired farmer is very common in the towns, and in most cases it is a pitiable one—too old to take part and enjoy village or city life. In many cases his only amusement is to get with someone who is similarly situated and tell thrilling stories of what he used to do. I know of farm owners whose farms have depreciated in value more than the income from them the last few years. The old

Spanish proverb, "the footprints of the owner is the best manure," is still good. Even if the farmer does not care to do anything but "tinker around" he is making money by building a tenant house and living on the old farm.

At this writing, January 4th, the bulk of the Nebraska corn crop, in common with that of adjoining states, is under the snow. Many farmers are having to rustle to get enough corn for their stock. How much of it will be saved depends on the spring break-up and future weather conditions.

Fillmore Co., Neb. W. J. Waite.

The World's Corn King.

The real corn king of the world, according to Hampton's magazine, resides near Whiteland, in Johnson county, Ind. His farm consists of 130 acres, and he gets up at 5 o'clock every morning. His name is Leonard B. Clore. A dozen years ago Mr. Clore began to specialize in corn. Today he sets the world's pace in this cereal. We are indebted to the Springfield Register for an interesting summary of his operations.

The Clore family very nearly keeps house with the father's corn prizes. In the list is everything from a manure spreader to a piano, including watch, clock, stove, mandolin, lawn swing, an automobile, a quarter section of land in Texas and a \$1,000 cash prize. One of the incidentals is a silver loving cup valued at \$1,000.

Mr. Clore decided a few years ago that instead of spending so much time in improving their land, the corn growers should give more thought to improving their breed of corn. All his efforts have been in that direction. In a specially built barn he germinates the corn in boxes of earth kept at the right temperature in early spring by gasoline stoves. Thus he knows before planting what percentage of the grains will germinate. Two ears of corn may look alike but the vitality of one may be much higher than that of the other. Mr. Clore is also a judge of what it takes to make a perfect ear; selecting the best ears each fall and planting the hardest grains in the spring, he has in a great way eliminated chance in corn growing. He raises from eighty to 100 bushels of corn per acre. The average this year is ninety bushels. There is about twenty bushels more than before he began his experiments, but, in addition, the quality of his corn has greatly improved. What he has done for Indiana, where his methods are followed, may be seen by the fact that the average yield for the past ten years is thirty-five bushels, while over the corn belt of the United States for the same period it is only twenty-five. Experiment stations all over the United States are sending to him for his high-bred seed corn, and are using his methods of breeding and planting. The czar has offered him a position



Crimson Wonder Again, above illustrated, was grand champion boar at the Iowa State Fair, 1906. His sire was grand champion at the same show, 1905. Crimson Wonder Again was sired by Crimson Wonder 3d, grand champion boar at the Nebraska State Fair, 1908. At Iowa and Nebraska State Fairs in 1908 and 1909 his get won forty-five prizes, including thirteen firsts and one grand championship. His owner, Mr. H. S. Allen, of Russell, Iowa, says: "No boar living or dead has ever equaled this record two years in succession." Twenty-five sows bred to him go in Mr. Allen's sale at Chariton, Iowa, on January 28th. See advertisement on page 63.

PUBLIC SALE OF DRAFT HORSES UNION, IOWA, THURSDAY, FEB. 3, 1910 AT MASON'S PAVILION

20 STALLIONS and MARES

FROM 10 months to 9 years old; one imported English Shire stallion. The rest are Percherons and are a splendid lot. Good stallions weighing 2,100 and better. A good lot of brood mares. Come and buy them at your own price.

A. P. MASON, Auctioneer and Manager, UNION, IOWA.

FARVER'S BIG POLANDS AT AUCTION AT OUR FARM ONE MILE EAST OF OCHEYEDAN, IA., THURSDAY, FEBRUARY 3, 1910

WE will sell 40 head of the big type of Poland China bred sows. There will be 20 tried sows, 5 fall gilts and 15 spring gilts. They are the daughters of Up To Date Kind 122547, Model Tecumseh 135231, Our Dodo 145743, Pawnee Prize 145747, King Dodo 86645, Big Surprise 48274, and are bred to Up To Date Kind, Our Dodo, Pawnee Prize. For size and quality, none better. Parties coming to our sale from W. J. Crow's sale will have free entertainment at the Osceola House, in Sibley, Iowa. Col. J. A. Benson, will be the auctioneer. Free transportation to and from the farm from Ocheydan. For catalog address

FARVER BROS., OCHEYEDAN, IOWA.

PAUL'S POLAND CHINA SALE To Be Held at Marshalltown, Iowa, Feb. 8th

Forty-five head of bred sows as good as will sell this year—the big kind that are big. Nine are tried sows by Monarch, Look Up, Weighed in the Balance, etc. Six are fall sows by Balanced Jumbo, Donald Lad and Teddy Perfection. Thirty are big spring gilts by the same sires. They are bred to Balanced Jumbo, Perfection Meddler, Chief Price 3d and Modesty's Jumbo. These sows are big enough and good enough for anybody. Some are show sows and all are breeding sows. Auctioneers, McIlrath and Cooper. Catalogs are now ready.

F. G. PAUL - - - MARSHALLTOWN, IOWA.

CLOSING-OUT SALE

OF CHESTER WHITES ON FEB. 8, 1910. Twenty-five sows bred for March and April farrow. Write for catalog.

M. J. DESMOND, WATERVILLE, IOWA.

Public Sale, February 11, 1910

OF 25 high-grade draft mares and geldings, 16 head of pure-bred cattle, Short-horns, six bulls, 10 cows and heifers. Sale will be at farm. Hogs are all sold. Address W. J. Hather, Ord, Neb.

in the Russian department of agriculture.

Ask your neighbor to subscribe for The Homestead.

POLAND CHINA SOW SALE

ON FARM AT
LAKE CITY, IOWA,
FEBRUARY 3, 1910

Eight matured sows by Winning Perfection, Monarch Chief, Chief of Rio Vista, Fancy Perfection and Chief Tecumseh 4th. Sixteen fall sows by Monarch Chief. Eighteen spring gilts by Long Hadley. They are bred to Long Hadley or Peerless Chief. This consignment shows both size and quality, and carries more of the blood of Chief Tecumseh 3d than will go into any sale of the year. Several show sows will be sold. Send for catalog. W. C. Lookingbill, auctioneer.

John H. Fitch, Lake City, Ia.

TOO LATE TO CLASSIFY.

HEREFORD BULLS

I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address

A. F. HAGER, AVOCA, IA.

GOLDEN MODEL, heads herd, assisted by Advancer 1st. Will sell 8 head Golden Model sows in the Olson Bros. sale at Woodward, Ia., Jan. 31st, bred to Advancer 1st. Five are litter sisters to my show herd of 1909, which won 11 ribbons at Iowa, Iowa Interstate, Neb., Minn., Wis. State Fairs; 4 1st, 3 2d, 2 4th and 2 5th prizes. O. A. Olson, Madrid, Iowa.

25 DUROC JERSEY BRED SOWS FOR SALE

Sired by King Solomon 11, Advancer's Choice; others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once. Address A. Leutz & Son, Pierson, Iowa.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equator; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

FOR SALE—RECORDED ENGLISH SHIRE STALLION Address G. TOUNEY, LAWLER, IOWA.

GOLDEN MODEL SALE CIRCUIT

Monday, January 31

**Sale in Heated Pavilion
Woodward, Iowa**

**35 HEAD OF
RICHLY BRED SOWS**

TOPS from the noted herds of Messrs. Olson Bros., Woodward, Iowa, and O. A. Olson, Madrid, Iowa, make up this offering. Practically the entire offering are bred to GOLDEN MODEL, sire of the grand champions, GOLDEN MODEL II. and MODEL TOP. Write for catalog, mentioning The Homestead, to

**OLSON BROS.,
WOODWARD, IOWA.**

Aucts.—Cols. H. S. Duncan, C. E. Luther.

Tuesday, February 1

at Madrid, Iowa.

**35 HEAD
TOPS OF MY HERD**

TWELVE yearlings and aged sows, twenty-three spring gilts. Daughters of Advancer, Keep On III., Golden Model, Red Chief, Model Again, Prince Wonder, Model Chief II., Advancer 1st, Kant Improver are included. They are bred to GOLDEN MODEL and ADVANCER 1st. Write for catalog, mentioning The Homestead, to

**W. R. Bennethum,
Madrid, Iowa.**

Aucts.—Cols. H. S. Duncan, C. E. Luther.

Wednesday, Feb'y 2

At Ankeny, Iowa.

Sale in Heated Pavilion

**35 HEAD OF
Choicely Bred Sows**

TEN yearling and aged sows, twenty-five gilts. Daughters of Tientsin, Keep On II., Nebraska Belle's Ohio Chief, I Am Advance, MODEL CHIEF, Model Jim, Ohio Crimson, Advancer Chief, Model Chief VIII., Sells' Crimson Wonder, Notcher Jr. and Ankeny Chief. They are bred to GOLDEN COLONEL (by Chief's Colonel) and NOTCHER JR. Write for catalog, mentioning The Homestead, to

**F. B. Butterfield,
Ankeny, Iowa.**

Aucts.—Cols. H. S. Duncan, Chas. Howard

SEND BIDS TO DANTE M. PIERCE, HOMESTEAD REPRESENTATIVE, IN CARE OF ABOVE.

**JOHN H. TRYON & SON'S
DUROC JERSEY BROOD SOW SALE
BANCROFT, NEB., TUESDAY, FEBRUARY 1, 1910**

**40 HEAD 25 Yearling and Aged Sows 40
Fifteen Gilts**

WE are selling one good Proud Advance sow, considered the second best sow sold in the R. J. Harding sale, bred to Gold-dust Col.; 2 daughters of Farmer Burns; also daughters of Junior Jim, Dreadnaught, Ideal Critic, Tryon's King Orion, and a grand lot of granddaughters of Ohio Chief. We are selling the best blood known to the breed. Write for our catalog at once. Address

JOHN H. TRYON & SON, LYONS, NEBRASKA.
Col. F. F. Luther, Auct. M. T. White, Field Man for Homestead.

CROW'S POLAND CHINAS

**AT AUCTION AT
Maclay, Iowa, February 2, '10
SIXTY HEAD**

Consisting of tried sows, fall yearlings and spring gilts, all of the Crow type of Poland Chinas. They have more quality than any big hog in America. Why not own a big, easy feeder? You can get it at the sale. All the world is waiting for the fellow who will breed to perfection a practical hog that grows as large as it is possible for a hog to grow, yet carries the finish of the smaller one. My hogs have stretch, bone, coat, color, head, ears, spring of rib, arched back, best of feet, and are large by inheritance. This is the best offering combining size and quality, all bred by one person, the world ever saw in one sale. This we guarantee to show. They are bred to boars that have proven to be great sires. They are bigger, better than ever. Send for catalog and let me show you. Sale at Maclay, Iowa, February 3d. Cols. W. R. Ritchie, of Marathon, Iowa; James Henson, of Newell, Iowa; Bert Bowman, of Spencer, Iowa, auctioneers. T. T. Parker, field man.

W. J. CROW, WEBB, IOWA.

Attention is called to E. Gritters' Poland China sale at Hull, Iowa, February 1st, and C. L. Thuirer's, at Postoria, Iowa, February 3d. Try to attend all three sales.

**THE GREATEST PUBLIC SALE OF
COL. BRED SOWS OF THE YEAR**

**THE CREAM OF THE DUROC JERSEY BREED WILL
BE OFFERED AT SHADELAND STOCK FARM**

KINGSLEY, IOWA, THURSDAY, FEBRUARY 3, 1910

40 Head of the Best Sows Ever Sold in the West

Fifteen choicely-bred sows are bred to Carl's Col., the "grandpa" of the champion Cols. Ten head are bred to Col. Scott, champion Indiana State Fair, 1907. Col. Scott is a full brother to Prince of Cols. and Col. Gladness. Five head are bred to Shadeland Col. by Prince of Cols II. by Prince of Cols., dam by Fogg's Col. About twenty choice sows and gilts are by King of Cols., Ed's Col., Prince of Cols., Fogg's Col. and G's Col. Others are by Ohio Chief, Proud Advance, Tientsin, John's Ohio Chief, King Solomon, Achiever, Prince Wonder, American's Royal, Inventor, Prince Malcom and others. Some of these good sows are bred to Iowa Notcher; others to Major. This is one of the greatest offerings of Col. stuff to be sold this year and is top stuff, besides the other good ones. Edmonds, Shade & Co. aim to make this the greatest offering ever sold at Shadeland Farm. Write for catalog at once and mention The Homestead. Address

EDMONDS, SHADE & CO., KINGSLEY, IOWA.
Cols. Luther & Lysle, auctioneers. M. T. White, field man for Homestead.

**SCHMAL'S
DUROC SOW SALE**

TO BE HELD AT

SUTTON, NEB., TUESDAY, FEB. 1, 1910

33 Head An offering consisting of 12 tried sows, 5 fall yearlings and 16 gilts **33 Head**

Bred to Red Top, a valued son of Echo Top and Miss Advance by Advance, and to Kant Be Better, a son of Kant Be Beat and Red Molly by Billie K. Among the top sows are Red Lady by Red Reuben, out of Sutton Lady; May by Imp III., out of Paragon by Red Knight; Miss Fancy by Commodore Lad, out of a daughter of Jack Orion. The gilts are by the herd boars, Davis Chief, Echo Top and Farmer Burns. Catalogs are now ready and may be had upon application. Bids should be sent to Fred S. Larkin, in my care. Address,

GEO. SCHMAL, SUTTON, NEBRASKA
COL. CALLAHAN, AUCTIONEER.

When Writing to Advertisers Please Mention This Paper



NOTABLE HEREFORD SALE



West Liberty, Iowa, Monday, January 31, 1910

(IN HEATED SALE PAVILION)

50 HEAD



**35 FEMALES
15 BULLS**



50 HEAD

THE females are daughters of MARK HANNA, champion of the Buffalo Pan-American Exposition; PERFECTION YET by the champion, Perfection Beau Brummel, and FULFILLER, many times champion. Twenty calves at foot by IMPROVER'S HESIOD, one of the greatest sons of Improver. Every female cataloged either has calf at foot or is safe in calf and in many instances the cows are rebred. The bull consignment consists of fifteen head—three two-year-olds and twelve yearlings by PERFEC-

TION YET and IMPROVER'S HESIOD. Practically the entire offering are of my own breeding and will meet with the approval of discriminating buyers. Write for catalog, mentioning The Homestead. Address

D. S. O'LEARY, IOWA CITY, IA.

Auctioneers---Cols. Edmonson and Reppert.



TOM GOSSARD'S GREAT SALE DUROC JERSEY BROOD SOWS

PONCA, NEB., FEB. 2, 1910

40 HEAD--20 Gilts--20 Brood Sows

I AM selling one of the greatest sales ever offered in Northeast Nebraska. There will be two daughters of Proud Advance, five daughters of Ohio Chief II., 19 daughters of the great Proud Chief; others by Missouri Gold Finch, Reed's Banker, Perfection Wonder and other noted sires. It is a high-class offering bred to high-class boars. Write for my catalog and come to my sale. Col. F. F. Luther, auctioneer. M. T. White, field man for Homestead. Address

THOMAS GOSSARD, PONCA, NEBRASKA.

THUIRER'S POLANDS At Auction

C. L. Thuirer will sell on his farm, 3 1-2 miles southwest of Fostoria, Iowa, Thursday, February 3, 1910

50 HEAD BRED SOWS AND GILTS

There will be eight matured sows, ten fall yearlings, the balance spring gilts. The matured sows are sired by Producer, Sunshine T., Onward, Surprise Wonder and Long Tom, and they are bred to Crow's Model 2d and Onward 2d. I am selling Lady Tecumseh 2d, also three daughters of Molly Fair 6th, and sired by Long Tom, and safe in pig to Crow's Model 2d; also Look Again 6th, and bred to Crow's Model 2d. Another good one in the offering is Wonder A. by Big Surprise and bred to Onward 2d. The fall yearlings are all the get of Long Tom and bred to Crow's Model 2d, Long Dude Jr. and Onward 2d. Parties coming from Crow's sale will have free hotel accommodation at the Central Hotel, in Spencer, Iowa; also free livery from Moore's livery to the farm; also will meet parties at Fostoria wishing to attend the sale. Col. W. R. Richard, auctioneer. E. T. Parker, field man. For catalog address,

C. L. THUIRER - FOSTORIA, IOWA.

Remember the E. Gritters sale at Hull, Iowa, February 1st; W. J. Crow's sale at Webb, Iowa, February 2d.

D. C. LONERGAN'S GREAT SALE "Big Victor" Poland China Sows FLORENCE, NEB., FEBRUARY 4, 1910

45 HEAD---25 SPRING GILTS, 20 YEARLING AND MATURED SOWS

There will be about 30 head in the sale that are sired by or bred to my great prize-winning boar, Big Victor, considered to be one of the greatest breeding boars today in Nebraska. There will be 7 spring gilts in the sale sired by King's Hadley, Nebraska State Fair Sweepstakes boar 1909, and they are very choice, most all bred to Big Victor. Also a cracking lot of sows by Guy's Price 2d. There are some extra choice sows in the sale by Big Victor and out of my noted brood sows, Hazel Price and Side Pocket. Those who have seen my offering pronounce it the greatest lot of Poland China brood sows that will be sold in Nebraska this winter. Send for my catalog and mention The Homestead. Col. H. S. Duncan, Auctioneer. M. T. White, field man for The Homestead. Address for catalog

D. C. LONERGAN, FLORENCE, NEB.

FOURTH ANNUAL SALE Registered Holstein-Friesian Cattle SOUTH OMAHA, NEBRASKA, TUESDAY AND WEDNESDAY, FEB. 8-9, 1910 125 HEAD OF ALL AGES

Consisting of 50 cows and heifers in milk or soon fresh; 30 heifers from 12 to 24 months old, mostly bred to calve in spring and summer, by such noted bulls as Sunny Jim, Milk and Butter King 2d and noted eastern sires; also 20 heifers under one year old, sired by the best bulls of the breed. There will be 25 bulls from 2 to 24 months old, including sons of De Kol 2d's Butter Boy 3d, King Segis Pontiac, King of the Pontiacs, Sunny Jim and others of equal merit. A number of A. R. O. cows, and daughters of A. R. O. cows, including Ricka, the cow that won the Nebraska Dairymen's Association test for the year just closed, making almost 1,600 pounds of milk and over 600 pounds of butter in the year. Her yearling daughter sired by Sunny Jim is also included. Also several granddaughters of Hengerveld De Kol that are safe in calf to Milk and Butter King 2d, son of the \$1,000 Milk and Butter King. In all the largest and best lot of registered Holstein-Friesians ever sold at auction in the central West. Every animal over six months is tuberculin tested. Catalogs now ready. Write for one at once and mention Homestead.

HENRY C. GLISSMAN, Station B, OMAHA, NEB.

Col. Kelly and Others, Auctioneers.

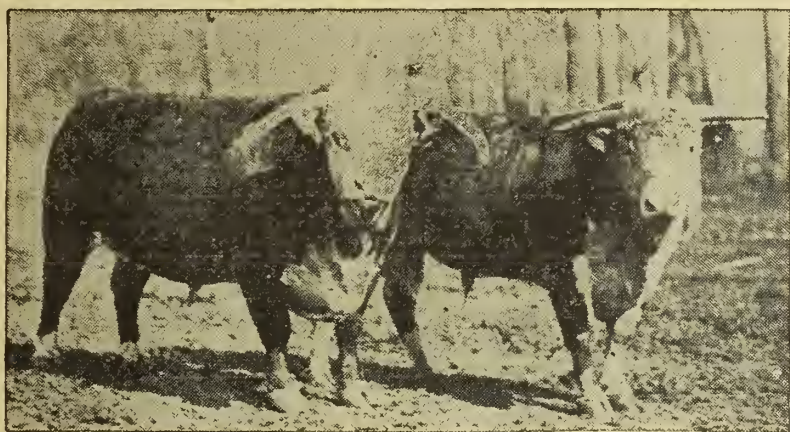
BROOKMONT'S BUGLE

is blowing the assembly call for
the great HEREFORD event at

ODEBOLT, IOWA, WEDNESDAY, JAN. 26th

when, in our warm and comfortable pavilion
we will sell a splendid consignment of

100 BROOKMONT HEREFORDS



TWO BROOKMONT HERD BULLS, SAILOR AND GARDEAU.

EIGHTY cows and heifers and twenty bulls that are bred to the queen's taste and that represent the most desirable type of the breed. They are in an ideal condition of flesh and will do well anywhere on ordinary farm treatment. We raise them that way because they make money for us that way. We sell them that way because that is the way they make most money for our patrons. All females of sufficient age are safe in calf. Here is great foundation for new herds. Here is the material that will help you to make profits on high-priced land. What more do you want? Answer the bugle call. Come and see Brookmont. Col. Woods will deliver an oration; Reppert and Teaquist will help. Send for catalog.

A. E. COOK, ODEBOLT, IOWA

JOHN B. LAWSON'S POLAND CHINA BROOD SOW SALE

40 HEAD--15 Yearling and Aged Sows--25 Gilts

CLARINDA, IOWA, THURSDAY, JANUARY 27, 1910

I AM selling 20 daughters of my great boar, **Prospect**, one of the greatest breeding boars today in the West. He is also bred to many of the best sows in the sale. The blood of **Pawnee Lad**, **Jumbo**, **Big Prospect** and other noted boars is represented in this sale. **Size, with quality combined**, is my motto, and I have it in the offering. Send for my catalog and then come to the sale. Address

JOHN B. LAWSON, CLARINDA, IOWA.
Col. H. S. Duncan, Auctioneer. C. C. Carlin, Field Man.

H. L. CANTINE'S DUROC JERSEY BROOD SOW SALE AT CHEROKEE STOCK FARM QUIMBY, IOWA, FRIDAY, FEB. 4, '10

50 Head 25 Yearling and Aged Sows 50
25 Choice Gilts

THERE will be three very excellent daughters of Ohio Chief in the sale; one daughter of Proud Advance, two by King Solomon out of Proud Lady II.; others by Top Notcher Chief, Crimson Wonder Jr., Count Tolstoy and other noted boars. It is one of the best lot of sows we have ever cataloged for sale from our Cherokee Farm. Col. F. F. Luther, auctioneer. M. T. White, field man for Homestead. Write for catalog and come to our sale. Address

H. L. CANTINE, QUIMBY, IOWA.

THE GREAT

ORION CHIEF

A WORLD'S FAIR WINNER and sire of
more WINNERS than any other Duroc boar

HIGH CHIEF

A WORLD'S FAIR WINNER and the
best BREEDING son of OHIO CHIEF

50 SOWS BRED TO THESE GRAND BOARS WILL BE SOLD
Thursday, February 3, 1910
at Oakland Farm near COLUMBUS, OHIO

25 Sows Bred to Orion Chief, 25 Sows
Bred to High Chief, 3 Sows Bred to
Colonel Chief by Prince of Colonels

THIS will be a grand offering of sows, in fact, no better will be sold this season, and being bred to two of the grandest boars of the breed makes them valuable to breeders. The following are sires of the sows:—12 sired by Orion Chief and bred to High Chief. Others by Col. Gladness, Grand Success, Chief Orion, Tippy's Col., Carl's Col., Red Corrector, Oakland King, Col. King, Rich Creek King, Oak King, Chief Success, Gold Bond, Commodore, Wilda's Col., Model Top and others. Auctioneers—Cols. Tom Vinnedge, Columbus, Indiana; H. L. Igleheart, Nolin, Kentucky, and Fred Reppert, Decatur, Indiana. Send bids to Carlos C. Palmer, Homestead representative, in my care. Write for catalog.

TOM JOHNSON & SONS, COLUMBUS, OHIO.

Great Ohio Duroc Jersey SALE CIRCUIT

350 Head from the Fountain Head

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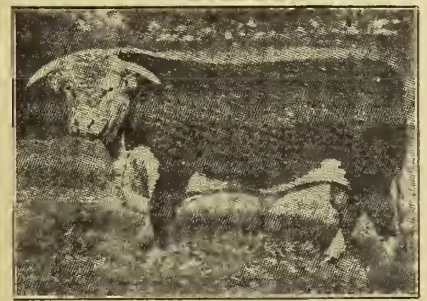
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STALLIONS AND MARES

Percherons, Belgians, Shires and French Coachers.



WE can show the best lot of horses for the money that have ever been offered by any importing firm. Good young ages, solid colors, style, bone, action and size. Prices right and terms the most liberal. See us before you buy, as by our modern selling methods stallions are bound to pay for themselves with practically no expense on the buyer's part. Our former patrons are our best boosters. Write for any information you may desire and plan to visit us. Our barns are in the city.

Champlin Bros., Clinton, Ia.

DUNHAM'S PERCHERONS

Next large importation, stallions and mares, Feb. 10th, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses—horses with bone, quality, size, action and best breeding, stallions or mares; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit

**OAK LAWN
Catalog shows the place and the horses.
W. S. J. B. & B. Dunham, Wayne, Ill.**

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares, home-bred stallions, \$250 to \$650 each.

A. Latimer Wilson, Creston, Iowa.

Percherons for Sale

Fifty head of imported and home-bred mares, two to six years old, bred to the best sires. Ten head of stallions, one to three years old. They are the right kind and priced right. Come and see and you will buy.

WELCH & PECK, LEXINGTON, ILL.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14½ to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop., EOLIA, MO. Pike Co.

BELGIAN MARES

IMPORTED and American-bred Belgian mares, safe in foal by a reserve champion stallion at the Iowa State Fair. They are good ones, none over 4 years old, broken to harness, and in an ideal breeding condition. Also some mares not yet of breeding age. Among them are some that have been winners at the Iowa State Fair. Write for prices or come and see them. Address

CHAS. IRVINE, ANKENY, IOWA.

DO YOU WANT FRONT ROW?

WE are representing Jack Breeders' Association. They are guaranteed in every way; 14 to 16 hands high, 3 to 7 years old, black, with white points. We represent 100 jacks of the best. Can save you \$300 to \$500 buying from breeders direct.

C. L. MOORE, Bowling Green, Missouri.

Farmers, Attention!

I HAVE one of the best Percheron stallions in the country. He is registered and weighs 2,200 lbs. Will sell him for one-half what he is worth, and he can more than pay for himself the first season. A sure foal getter and all right in every way. Must make a change on account of his colts coming on. BOX 646 - NEVADA, IOWA.

For Sale--Grade Shire Stallion

SIX YEARS OLD. Good bone and breeding. Priced reasonable and guaranteed right. Address

JOHN KROGMAN, R. 1, LYONS, IOWA.

HORSES AND JACKS.

DISPERSION SALE OF PERCHERON, FRENCH DRAFT AND SHIRE HORSES

TO BE HELD AT THE STOCK YARDS SALE PAVILION
South Omaha, Neb., Monday, January 24, 1910



IMP. BRAMHOPE FAWCETT, ONE OF THE SPLENDID STALLIONS INCLUDED IN THIS SALE.

We offer all our registered Percheron and French Draft stallions and mares in this sale, as we are selling out our farm. They are a splendid lot and we believe will prove a profitable and satisfactory investment to those who buy them. In all we offer

26 Stallions and Mares,
Including our prize-winners at
the Iowa State Fair

We believe we have some of the best American-bred horses ever offered for sale. They have not been pampered in any way. The mares have been doing farm work and are only in good, ordinary condition. For that very reason they are a splendid investment for the farmer, as they will do his work and raise him a colt that will pay big interest on the investment every year. We bought good mares when we started and we know that it pays. Some years we have sold the colts for much more than the mares cost us. The stallions in this sale are an excellent lot. An excellent breeding Shire stallion is offered in Imp. Bramhope Fawcett, as his colts will show. If you want to buy a stallion you'll make no mistake in those we offer. Get a few of your neighbors to go in with you and attend our sale. You'll be able to buy right, both as to quality and price. Our sale catalog tells all about the offering. Write at once for it, mentioning The Homestead.

UNION WRECKING CO.,
DES MOINES, IOWA.

Col. John Duff, Auct. Assistants, Col. Gallup, J. M. Duff.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coaches, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality. Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

Belgians and Percherons

Second importation for 1909, sixty head, arrived August 10th; third importation, thirty head, December 8th

120 STALLIONS AND MARES

Upon my farms; my four barns full. Eight miles west of Cedar Rapids; two railroads; electric car every hour.

SEND FOR NEW CATALOG

HENRY LEFEBURE, FAIRFAX, IOWA.



I HAVE THE LARGEST JACKS

In the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first class jacks. Let me show you before you buy. W. L. DUFF, Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.



25 IMPORTED AND AMERICAN-BRED

Percheron Mares

At prices less than the cost of production. All acclimated and bred. Do not miss this opportunity to secure the best. None reserved.

Holland Stock Farm, Springfield, Missouri. The largest importers and breeders in the Southwest.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of

PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address GEORGE W. BILBO, CRESTON, IOWA.

SHIRES, Percherons and Belgians! Best imported Shires, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

Imported Percheron and Belgian stallions and mares, with size, quality and action; develop from 1,700 to 2,300 lbs.; do not handle any but the best and reliable stock that makes friends after sold. Price them to sell, with good guarantee. Inspection invited. Joe Ronnelle & Son, Seward, Nebraska, 29 miles northwest of Lincoln, Nebraska.

FOR SALE CHEAP. Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. 3/4 ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

Shetland Ponies The cream of Scotland; any kind you want; we sell them reasonable. CLARKE BROS., Auburn, Neb.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa

HORSES.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians. So we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners.

We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

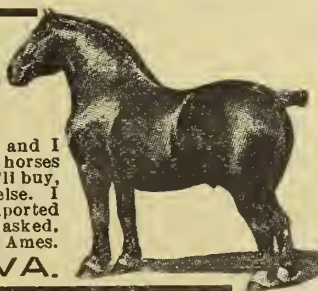
ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Percheron Stallions

WITH SIZE AND QUALITY

PLENTY of bone and good action. That's my specialty, and I can suit the man who wants a good stallion, as both the horses and my prices are right. **COME TO SEE THEM** and you'll buy, because you'll not be able to get better bargains anywhere else. I have a choice lot of stallions for sale now—home-bred and imported horses, carefully selected in France. Inspection especially asked. Notify me and I'll meet you at Ames. Farm 7 miles N. E. of Ames.

S. B. FREY, AMES, IOWA.



Ensign's PERCHERONS

OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write

S. A. ENSIGN, CLEGHORN, IOWA
C. A. PINGEON, Sale Manager.



The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on Imported Clydesdale Stallions and Mares; also a few choicely bred hackneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U.S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C., R. I. & P. Railway, forty miles northwest of Peoria, Illinois.



REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES

WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.



CLYDESDALE MARES

I HAVE just received from Graham Bros., Clarendon, Ontario, Canada, America's foremost importers and breeders of Clydesdales, two car loads of very choice, young, registered brood mares, imported and Canadian bred, with much size and quality and of good ages, all bred and many now showing heavy in foal. To move them quickly I am making very attractive prices on a limited number of these good mares. It will pay any intending purchaser of one or more registered mares to see them before buying.

LEN H. LAMAR - - STORM LAKE, IOWA.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



Shires, Clydes, Belgians, German Coachers

OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing them where every farmer can buy. Come and see us. Address **Laben Harrison & Son, Prescott, Iowa**

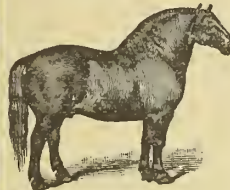
STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM,
CEDAR RAPIDS, IOWA.

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS



WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

FORD & HARRINGTON, PARKER, SOUTH DAKOTA.
FAIRBURY, ILLINOIS.

CLYDESDALE DISPERSION

AT BAILEY FARM, THREE MILES WEST OF

ANITA, IOWA, MONDAY, JANUARY 24, 1910.

THIS sale includes registered stallions and mares and Short-horn cattle. The stallions are Imp. Merrimac 12354 (sire Baron's Pride, dam Princess Alix (13564) a great show mare; Debonair 12976 (foaled September 1, 1906; sire Noranbank 11951, dam Princess Handsome 9758); Laird of Anita 12157 (foaled April 25, 1905; sire Prince Kirtlebridge 9271, dam Jess of Anita 10051); Royalist 13417 (foaled June 13, 1907; sire Royal Defender 9692, dam Jess of Anita); Claymore 13918 (foaled August 25, 1908; sire Merrimac, dam Jess of Anita). There are four mares—Jess of Anita, Queen 13916, Rose of Anita 12710 and Jean of Anita 13917. Four Short-horn cows, 3 summer calves and 2 yearling heifers. Also grade cattle and hogs. Col. J. West Jones, auctioneer.

ALFRED BAILEY, ANITA, IOWA, and ANITA HORSE COMPANY, ANITA, IOWA.

M. L. AYRES, SHENANDOAH, IOWA

Thirty Years a Breeder and Importer of

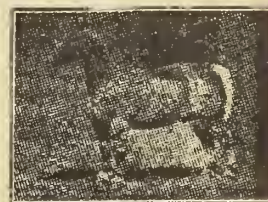
PERCHERON HORSES

A FINE selection of young two and three year-old home-bred stallions for sale. The noted Brilliant bred stallion, BLANDE 36377, at head of stud. Anyone looking for a herd heading stallion will do well to patronize me. For bone, size and quality our stallions are unsurpassed. 125 to 150 head of horses on the place all the time. Come and see them or write for full particulars, mentioning The Homestead.

PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 18th. **Ernest L. Humbert & Son, Corning, Ia.**



57 IMPORTED STALLIONS AND MARES

WITH PRACTICAL HORSEMEN a short statement of FACTS will have more weight than a whole page of MUSH. I have a stable full of SHIRES, first class in every respect. They combine WEIGHT, quality, good conformation and the best blood. Also WELSH MOUNTAIN PONIES of the highest type. I will sell them as low as legitimate business will permit. Write me for particulars.

Great Bargains in January and February. GEO. E. BROWN, AURORA, ILL.

Aurora is 37 miles from Chicago by C. B. & Q. C. & N. W. and also by trolley; trains every hour. Also connected by trolley with Joliet, Geneva and De Kalb, and with Ottawa by the Fox River line.

Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1908 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.



HORSES AND JACKS.

BREEDERS' SALE 450-HORSES-450 In Coliseum, Bloomington, Ill. FEBRUARY 1, 2, 3 and 4, 1910

ON TUESDAY, WEDNESDAY, THURSDAY AND FRIDAY WE WILL SELL
**350 Imported and Native Bred Registered
Percheron, Belgian, French Draft, Shire and
Clydesdale Stallions and Mares**

150 HEAD of imported stallions and mares that will land by sale day.

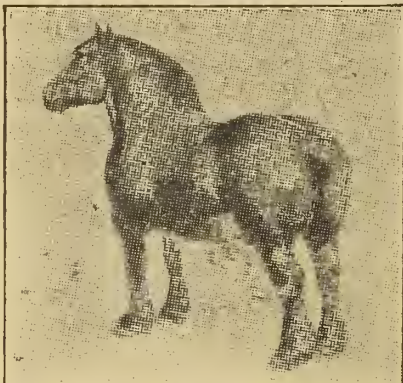
100 HEAD of imported stallions and mares that have been here a year.

150 HEAD of the BEST registered mares that ever went in an auction ring.

100 REGISTERED Stallions
Of the very choicest of breeding and individuality.

FRIDAY, FEBRUARY 4, '10

We will sell 100 head of **registered trotters, grade draft, saddle and all-purpose farm horses, stallions, mares and geldings.**



CONSIGNORS---Moots Bros., John C. Baker, A. M. Storms, Downs Bros., Miller Bros., W. S. Halane, H. I. Messinger, W. C. Baughman, O. R. Thompson, J. Wilt, John Yoder, M. G. Murray, Leemon Bros., Enos Stewart, W. H. Ritter, Sass Bros., D. D. Brotherton, J. W. Cavanaugh, W. H. Weleh, T. T. Hix, Fred Musselman, Chas. Stewart, T. Stubblefield, W. A. Turnipseed, D. Augstin, Stream & Wilson, Wm. Zundahl, A. J. Dodson, Ralph Moore, Geo. Rasor, L. C. Wheaton, R. E. Johnson, Ed Hodgson, C. W. Funk, Rogers & Allen, John Taylor, Simon King, Dr. D. Sigler, L. C. Judy, G. B. Loper, Hemphill Bros., G. H. Behrens, Ewing & Tavenner and forty others.

CATALOGS NOW READY

**BREEDERS' SALE COMPANY
C. W. HURT, MANAGER, ARROWSMITH, ILL.**

HORSES.

LAKEWOOD PERCHERON SALE

**100 PERCHERON STALLIONS
and Mares at Public Auction 100**

**SIOUX CITY, IOWA,
TUESDAY and WEDNESDAY, FEB. 8-9, '10**

THE greatest opportunity of the year to buy high-class Percheron stallions and mares. Sons and daughters of the World's Champion Sire, CALYPSO, many of these good enough to win in the strongest competition. **25 BIG-BONED STALLIONS READY**



CALYPSO.

FOR SERVICE. 10 selected yearling stallions. 50 splendid young mares in foal by CALYPSO and CARTILAGE, both INTERNATIONAL WINNERS. 15 choice yearling fillies. It should be remembered that Lakewood Farm has produced more PRIZE-WINNING PERCHERONS during the past five years than any other breeding establishment in the world. 30 PRIZES were awarded Lakewood Percherons at the recent INTERNATIONAL at Chicago, a

**RECORD NEVER
BEFORE EQUALED**

If you want a stallion to head your stud, a team of high-class mares, an outstanding yearling stallion, or a pair of splendid fillies, do not miss this sale. Catalog on request.

H. G. McMillan & Sons, Rock Rapids, Iowa.

Col. F. M. Woods
Col. Carey M. Jones

AUCTIONEERS

Col. P. McGuire
Col. W. J. Murphy

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES



We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on

yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

PERCHERONS

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of this year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



**COME AND SEE KEISER'S PERCHERONS AT KEOTA.
C.O. Keiser, Keota, Iowa**

HOMWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

**Percheron, Belgian and Shire
STALLIONS AND MARES**

SIXTY head of stallions arrived August 10th. 10 head of Percheron mares arrived on Nov. 5th. We also have a choice selection of American-bred Percheron mares, fillies and stud colts. If in the market for a first-class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. Our Motar: Prices right, terms in suit, no fraction guaranteed. No misrepresentation or disappointment on arrival. Write our home bank for references. Homewood is on the main line Big Four and I. C. R. R. 23 miles south of Chicago. Suburban train hourly from the city. Bell 'phone Homewood 201.

Don't fail to see our exhibit of 60 head at the coming International.
S. METZ & SONS, HOMWOOD, ILLINOIS.

YOU ARE MISSING THE OPPORTUNITY OF A LIFETIME



If you do not send and get OUR NEW 1910 CATALOG before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909 and are all in prime condition to go out on the stand and do a big season's business. They are nearly all solid colors, range in age from 3 to 6 years, in weight from 1,700 to 2,300 pounds. They are the big-boned, blocky type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a Government bond. GET OUR CATALOG. It is free for the asking.

**WATSON, WOODS BROS. & KELLY CO.,
LINCOLN - - NEBRASKA.**

FRANK IAMS' 1910 STALLIONS

O! you Ikey stallion buyers! —But I love Iams The Big Horseman," and his "peaches and cream" imported stallions and mares. He is the "real money saver" to stockmen—he will save horsemen \$300,000 in 1910, and sell them better and larger stallions and mares. His 1910 new Horse Catalog (just out) is a "bunch of gold," a sure "eye-opener" to stallion and mare buyers—it is the "Book of Books" in the "horse world,"—full from cover to cover of facts, truths, "business propositions," and 115 beautiful illustrations of the finest and largest imported stallions and mares in the United States. They are in every pose—true to life. In fact it is a "warm book." It will show you "Iams' Kind"—the "wide-as-a-wagon" drafters—the real "peaches and cream" imported stallions and mares that "cut a bunch of ice" in the United States. It will "show you" the tricks of the "stallion peddler" and "auction block salesman," and why you should buy horses of Iams. It is the finest, most elaborate, most original, up-to-date "horse book" in the world. In 1910 Iams—will save buyers \$300,000.00 and sell them "real drafters," so good that he don't resort to the "auction block" or "peddling business" to sell "Iams' kind." Iams' 1909 importation of

"200 PERCHERON AND BELGIAN KINGS AND QUEENS"



IAMS AND BELGIAN AND PERCHERON, REAL PEACHES AND CREAM, WINNERS.

are ready for a good selling at bargains. This is what Xmas Ikey and uncle Hiram said after doing business with Iams for 5 years, buying 5 stallions and 10 mares that have bought them "another farm" and a "new house" and diamonds for Mary. Xmas stallion buyers—Iams is the "live-wire horseman." He has "the goods as advertised." He is the "man behind the dough" that "shows you" more first-class "big ton drafters" with big bone, quality and finish than can be seen at any importing barns in the United States for "money or chalk." "Xmas Ikey Boy" "waltz me around again" and land me at "Iams' horse box-office" and "4 mammoth horse barns," "filled to the roof" with imported stallions and mares at "bargain prices," and I am "nervous" to see Iams' Xmas horses. They are "high class." Iams' 1909 importation of horses, which is the largest bunch and best lot of big-boned, big drafters ever imported by one man to the United States. Yes, "papa, dear," Iams is a horseman in a class by himself and 10 years in the lead. "He stirs up the buyers," "hypnotizes" them with big flash horses at fifty cents on the dollar. He cuts the middle out of prices on "top-notchers."

IAMS' 27 YEARS OF SUCCESSFUL BUSINESS

makes him a safe man to do business with. Iams actually sells more horses than any ten importers in the United States, but he "don't want the earth and fence around it" for profit on one stallion. Farmer horseman—be a "foxy stallion buyer." Don't let any "hammer knocker" "hand you a lemon" by selling you a "\$1,200 stallion" for \$3,000. An imported stallion will make you \$1,000 in service fees in 100 days. Not in the world's history have horses been so high in price, or so scarce. Farmers, "get into Iams' band wagon," breed big drafters. All railroads lead to "Iams' stallion and mare emporium." He is the largest individual owner, importer and breeder in U. S. Send him an order for a stallion and two mares; you will buy better horses for the money than you would select yourself. He is "selling peaches and cream" stallions at

"SPECIAL PANIC PRICES FOR 90 DAYS"

saving buyers \$1,000 on a "top-notcher." He guarantees to show you the "best bunch" of big, sound "imported stallions" and mares owned by one man in U. S., and horses you will wish to buy, or pay you \$500 for your trouble to see them. Iams' "town of barns" is filled with fresh importation of 200 Percheron and Belgian Stallions and Mares, 2 to 6 years old; weight, 1,700 to 2,500 pounds; 90 per cent blacks, 60 per cent ton horses. (Pedigrees do not belong to horse unless he or she is branded.) Iams' imported stallions and mares are registered and branded and are "business propositions" that "jar the cherries" on a wide-awake horseman's hat. They are

WINNERS OF EIGHTY PRIZES AND MEDALS

at Paris and Brussels. "Sit up and take notice." Iams sells "Show Horses" that will take the mortgage off the farm and a "little bit more." For twenty-seven years Iams has "bumped the heads" of "stallion peddlers" with better and larger stallions, forcing the importer and breeder with inferior stallions and mares to sell them on the "auction block" as the last resort. And, Mr. Ikey, no first-class stallions or mares are ever sold by "peddlers" or on the "auction block." Iams guarantees to sell you a

"BETTER STALLION AT \$1,000 TO \$1,400"

(a few little higher) than are sold to Farmers' Stock Companies at \$2,500 to \$4,000. Imported mares as good as grow, \$700 to \$1,000, in foal—the kind that bring colts that sell at \$500 at six months old. Many first-prize and sweepstakes winners. Iams has reduced the prices on "show horses" \$100 to \$500 each. "It's not because your name is Maud" that Iams tells you in his "ads" of money he will save you. He wants your business; that's why he advertises. He wants you to smile on him with a visit. He will make the "wheels of business" go round. Iams can place \$1,500 insurance on his stallions. He is an "easy man" to do business with, and his horses are so good they sell themselves. You say "why can Iams sell better horses at half the price of others?" Iams buys and sells every stallion himself at his home barns. He buys stallions by "special trainload" 200 at a time. He speaks the languages, saving 30 per cent.

IAMS IS NOT IN THE "STALLION TRUST"

saving you \$300. He pays no "slick salesman" \$1,000 to sell you a fourth-rate stallion. He gets busy himself and sells more stallions than any ten men in U. S. He does not hire 50 horse salesmen; he sells every stallion himself. He has no two to ten partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions. He sells stallions by "hot advertising" and having the goods to make every statement good. Iams sells stallions so good that they do not need a "slick peddler" or the "auction block" to sell them. Iams will save you \$1,000 or more in middlemen's profits.

ALL IAMS' "SHOW HORSES" AND "PETS" ARE FOR SALE

None reserved. You won't get away from Iams with money or bankable notes. He has his "selling clothes" on daily. 60 per cent of Iams' horses sell at \$1,000 to \$1,400, and 40 per cent a little higher. Imported mares, the best in the land, sell at \$700 to \$1,000. "Special prices" made at my barns only on one or a bunch of horses. Iams' guarantee is backed by

HALF MILLION DOLLARS ST. PAUL, NEBRASKA.

HORSES.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

TWELFTH IMPORTATION SINCE AUGUST, 1908, ARRIVED NOVEMBER 14, 1909.

OUR WINNINGS AT 1909 INTERNATIONAL:

Grand Champion Shire Stallion.
Champion three-year-old and over Shire Stallion.
First, Second, Third, Fifth, aged Shire Stallion.
First, Fifth, three-year-old Shire Stallion.
Second, Fourth, two-year-old Shire Stallion.
First and Second, five best Shire Stallions.
Grand Champion Shire Mare.
Reserve Champion Shire Mare.
First, Second, Third, aged Shire Mare.
First, Second, Fifth, two-year-old Shire Mare.
First, Second, three best Shire Mares.

First, Shire Mare and Colt.
Gold Medal (English) Shire Stallion.
Gold Medal (English) Shire Mare.
English Hackney Medal. American Hackney Medal.
First, aged Hackney Stallion.
Champion Hackney Stallion.
Champion Stallion in Harness.
Champion Coach Stallion (all breeds competing).
Reserve Champion Hackney Mare.
First, aged Hackney Mare.
TEN SILVER CUPS.

50 IMPORTED SHIRE MARES FOR SALE. Address for catalog and other information, mentioning this paper when writing

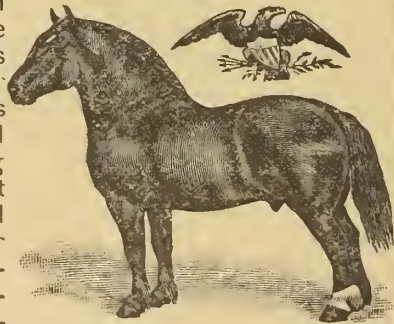
TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October and one in November. Another shipment will arrive before the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

McLay Bros., Janesville, Wis. THE CLYDESDALE SPECIALISTS

HEADQUARTERS of the breed in America. More prizes at nine Internationals than any competitor. Two importations this year. We can buy better, we can buy cheaper, than any. Our expense is much less. We want less profit. We also breed them. Eventually, if not now, these facts must appeal to you. Your own interest demands it. Come and see. Wire or write us.

STATIONS—JANESVILLE OR AVALON.



FRANK L. STREAM,
Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$200 to \$650.

FRANK L. STREAM,
Creston, Iowa.

Percheron and Belgian STALLIONS and Mares

Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot 1/2 mile north of C. M. & St. P. R. R. depot. R. H. Knickerbocker & Son, Fairfax, Iowa.



LA FAYETTE STOCK FARM

ANNOUNCEMENT! The season for buying stallions has opened. We are ready for business with the grandest lot of uniform high-class horses ever offered.

PERCHERONS A great selection of blacks and grays, ages two to six years, with the bone, weight and quality, including every first prize-winner as well as other horses in the money at the 1909 Paris show, and the largest prize-winners at the American shows this year. Our entire lot of Percherons are the very best money will buy.

BELGIANS A most remarkable lot of horses of this well-liked breed, great big massive horses of wonderful good make-up. Stock horses that will produce the big market horses so profitable to the farmer. All the good colors, combined with other good qualities, that will suit a buyer for a Belgian.

SHIRES We have them in every way up to the standard of our other draft breeds, from the best blood in England. They stand out strong in all the points that go to make a good Shire horse.

GERMAN COACH AND HACKNEYS The right kind of a Coach horse is the Coach horse to buy, a German Coach or Hackney stallion from the La Fayette Stock Farm, where you have plenty to select from—a lot that have a national reputation in the show rings, east as well as west, for their excellence, for breeding purposes.

We offer over 200 head of stallions and mares of great merit at most reasonable prices and a good honest guarantee. Do yourself justice by seeing our horses before you buy.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.
W. A. Dobson, Iowa Agent, 1374 21st Street, Des Moines, Iowa.

IF YOU WANT TO BUY A STALLION

EITHER

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any banker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer.

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. for the asking. Address BOX 68.

New Importation of Percheron, Shire and Belgian Stallions

EXTRA weights, bone and quality; solid colors. Prices always moderate. Large assortment at each farm. Come make your selection. PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.

HAMPSHIRE SWINE.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1910. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.



WAYSIDE HAMPSHIRE

WE bred the load of barrows that won first in class over all breeds at 1907 International. Young stock of both sexes for sale at all times. Breeder of Red Faced cattle. Young stock for sale. Write for prices, mentioning The Homestead. MIKE SHARP, COAL VALLEY, ILL.

25 Head of Spring Boars 5 Head of Yearling Boars

ALL good ones and guaranteed breeders. Prices reasonable. H. D. DEKALB, DEKALB, IOWA. WOOD & WESCOTT, SHEFFIELD, ILL.

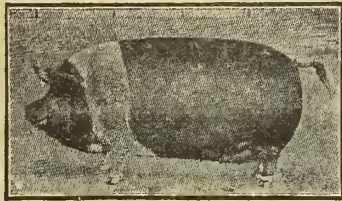
HAMPSHIRE GILTS

TEN good gilts with length and bone, bred to the best of boars for March and April farrow, for sale with the money. Address

BOLLMAN'S BIG HAMPSHIRE Bred Sow SALE

TO BE HELD IN THE OPERA HOUSE AT
Coal Valley, Illinois, Friday, Jan. 28, '10
75 Head Bred Sows 75

THE sale includes many State Fair prize winners, and my 1909 show herd at the International Exposition, Dexter Park, Chicago. The sale includes 6 sows by Solid Gold, champion Ill. State Fair, 1908. Among these is the great sow, Merry Widow, pronounced by good breeders and competent judges as one of the most perfect specimens of the breed. Another top liner is Hettie Green, second in class and first in herd, Ill. State Fair, 1908, while an extra good one is Bessie A. by Regulator, first at St. Louis World's Fair. The offering is the pick of my herd, and each one is a good one. They are bred to Top Round by Dr. Smith, dam by Gold Cup, she the dam of the noted show sow, Merry Widow; Ed. Raymond by Top Round, dam Malinda by Solid Gold; Blythedale George by Blythedale Duke, champion at St. Joseph, 1908, dam Prince Perfection by Get Away by Beauty; A. L. G. by Bon Bon Beauty, first at Iowa and Ill. State Fairs, 1908; King David by Gold Nugget, dam first prize by Regulator. These are the tops of 400 head. I am making this the effort of my life to put the Hampshire hog where he belongs. Write for catalog. If you cannot attend, send, mail or wire bids to Carlos C. Palmer, Homestead representative, in my care. Address



R. L. BOLLMAN, COAL VALLEY, ILLINOIS.

Cols. Fred Reppert, H. L. Igleheart, Geo. B. Buck, Aucts.

WIGSTONE BROS.' BIG-TYPE POLAND CHINA BROOD SOW SALE STANTON, IOWA, JANUARY 28, 1910

40 HEAD—20 YEARLING AND AGED SOWS—40

Fellow Breeders and Farmers:—If you are wanting the larger type of Poland China brood sows with the big bone, and with all the quality that is consistent with the big hogs, then you should come to our sale. The blood of Giantess, Pawnee Lad, Big Prospect, Long King and other well-known sires is represented in our sale. It is an offering that we can highly recommend to the breeders and the farmers of the West. You will be interested in our catalog. Send for it at once and mention Homestead. Address

WIGSTONE BROS., STANTON, IOWA.

Col. H. S. Duncan, Auct. C. C. Carlin, Field Man for Homestead

GRITTERS' BIG POLANDS AT AUCTION

TO BE HELD ON THE FARM FOUR MILES NORTH OF
HULL, IA., TUESDAY, FEBRUARY 1, 1910

50 Head of the big-type Poland China bred Sows and Gilts

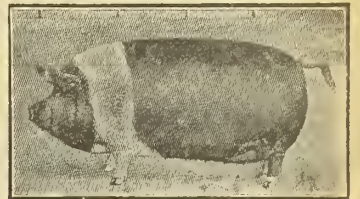
ONLY a few are aged sows, balance fall and spring gilts, sired by Longfellow Jr., Choice Chief Price, Chief Leader, King by Beauty's Jumbo, Long Price and A Wonder. They are bred to Longfellow Jr., Gritters' Longfellow, North Star Chief, Long Prospect and Ideal by King-Dodo. The aged sows will weigh around 600 to 700 pounds, and the spring gilts from 300 to 350. If you want the largest type of Poland China hogs in the world, come to my sale and you will have a chance to buy them. Free entertainment and free transportation to and from the farm. Catalogs are now ready and may be had by addressing

Cols. J. A. Benson and Henry Moen, Aucts. **E. GRITTERS, HULL, IOWA.**
E. T. Parker, Field Man.

PUBLIC SALE OF PRIZE-WINNING HAMPSHIRE SOWS

AT MY FARM NEAR
Morrison, Ill., January 29, 1910

50 HEAD TOPS



They are sired by such boars as Long John 811, champion Indiana State Fair, 1907; Legal Tender, champion Illinois State Fair, 1906-1908; Bon Bon Beauty, first-prize junior yearling boar Illinois State Fair, 1908. My winnings at Illinois State Fair, 1908, were fourteen out of sixteen classes, including seven firsts, five seconds and both championships. I will sell Maud, the reserve champion sow at Springfield, 1908, and several of her daughters and sisters. Several daughters and sisters of Beauty's Best are also cataloged. Sows are bred to high-class boars. Will sell my dapple gray Percheron stallion, Cosack 40297, weight 1,700 pounds. Send for catalog, mentioning The Homestead. Sale under cover. Parties who cannot attend can send bids to Carlos C. Palmer, Homestead field man, in my care. Auctioneers: Fred Reppert, H. L. Igleheart.

A. L. Goodenough, Morrison, Ill.

JEFFERIES' POLAND CHINAS and DUROCS AT AUCTION ON FRIDAY, FEBRUARY 4, 1910

WE WILL SELL AT OUR FARM, SIX MILES EAST OF ROCK RAPIDS,
FORTY HEAD BRED SOWS AND GILTS

Consisting of 20 Poland Chinas and 20 Durocs. In the Poland China offering the fall yearlings are sired by Grand Expansion. Gilts are by Tecumseh's Dude by Doris Tecumseh and Midwood Perfection by Winning Perfection. They are bred to Demonstrator by Rusticator, he by Corrected Chief. The Durocs are sired by Maxwell Orion, he by Manley's Orion, and are bred to R. E. Model by Bems Kruger. We will also sell four grade Shires coming two years old, one filly and three geldings; one registered Shire stallion, three years old, and two Short-horn cows. Free accommodations from Rock Rapids to the farm, and free hotel accommodations at Rock Rapids for visitors. J. A. Benson, auctioneer. For catalog write

R. A. JEFFERIES & SONS, ROCK RAPIDS, IA.

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE SOWS

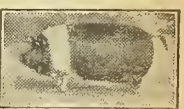


My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. Nothing for sale at private treaty. 50 bred sows will be sold in my sale January 29, 1910. Write for catalog.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

STONE STOCK FARM HAMPSHIRE SOWS

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper.
E. C. STONE, ARMSTRONG, ILL.



HAMPSHIRE SWINE

Stock of all ages for sale and of fashionable families. Write
GEO. LIPPERT
Magnolia, Illinois



We Have for Sale

Spring boars ready for service, sows either bred or open, young pigs in pairs or trios no kin, a fine bunch of gilts either bred for spring or open; prices reasonable. Write us before you buy.
L. C. MILLER & SON, R. 2, Canton, Illinois.

POLAND CHINA SWINE.

SELECT BRED SOW SALE FEBRUARY 10, 1910.

BIG-TYPE Polands, with big-type blood lines. 20 tried sows, the largest and most noted of the breed. 40 big gilts, the progeny of the largest Poland boars and sows in the world. Bred to boars of equal merit, such as Big Ex., the 1070-pound son of Pawnee Chief; Chief Price, the 800-pound yearling; Superior Look, the most noted son of Long Look. Send your address early for the catalog.
W. H. COOPER - HEDRICK, IOWA.

POLAND CHINAS FORTY BRED SOWS—BIG TYPE

BIG-TYPE Polands with big-type blood lines sired by Napoleon Chief 84169 and bred to Corn Belt Expansion 153155 for March and April farrow. Write for prices and des. **C. K. HANSON, Nashua, Ia.**

When writing to advertisers please mention this paper

DISPERSION SALE OF CHESTER WHITES

AT PIONEER STOCK FARM ADJOINING

Keswick, Ia., Wednesday, Jan. 26

52 Head--3 Boars--23 Sows and 26 Gilts

HAVING sold my farm I am offering a lot of sows that I had kept from the best of my breeding, those that have been prolific and kind mothers. For length, bone, strong backs and good on feet, I think my herd is not equaled in the Chester Whites. Look at the breeding: Humbert's Choice, sired by Combination; Pres. O. K., sire O. K. Mikado, dam sired by Prescott Boy. Some of the sows are from that great hog, Pioneer; others as good. A chance to get the best. Keswick is on the Muscatine and Montezuma branch of the C., R. I. & P. R. R. Good connections via Webster with Cedar Rapids and Ottumwa, on C., M. & St. P. R. R. Write for catalog, mentioning Homestead. Send bids to Dante M. Pierce, representing Homestead, in my care.

A. A. HUMMER, KESWICK, IOWA.

Cols. C. C. Evans and C. S. Seymour, Auctioneers.

POLAND CHINA SWINE.

WELLMAN HERD OF POLAND CHINA HOGS

AND SHORT-HORN CATTLE.

25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd headers a specialty. 10 head of choice young bulls, 8 to 15 months old; all deep reds; sired by Masterlode 265763, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address **C. F. SHAFER, R. R. 4, WELLMAN, IOWA.**

PODENDORF'S BIG-TYPE

Poland China Bred Sows

I AM offering a splendid lot of strictly big-type, with quality combined. Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.

A. J. PODENDORF, LOGAN, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thicket 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. **HELD BROS., HINTON, IOWA.**

Sixty Poland China Bred Sows

FIVE sired by Impudence, 4 by Keepsake, 15 by Importance, 15 by Kemp's Leader, 2 by Keep Ahead and others. Sows are bred to Importance, Reflector, King Wonder, Reflector II., and Mastodon III. 15 spring boars for sale, sired by Kemp's Leader, Reflector and Importance. **Oliver Whiteman, Biggsville, Ill.**

OAKSIDE HERD of "Monster Pattern" POLAND CHINAS

HERD headed by Monster Pattern (weight 360 pounds at seven and one-half months old, 800 pounds yearling, eleven-inch bone), Oakside Chief (550 pounds yearling, 900 pounds at maturity). Herd sows large and prolific. Open and bred sows for sale at very close prices. Ask for catalog and get posted. There is a "tip" in it to every prospective buyer. Direct shipping facilities. Address **A. S. JUCKETT & SON, Oakside Farm, Route 2, Fremont, Nebraska.**

ELLERBROEK'S POLAND CHINAS

50 Bred spring and fall gilts of the large-boned, lengthy type. These gilts are bred to Giant 2d 151933, A Wonder 143421, Big Bone 2d 151743. Their sires are A Wonder Next 149557, A Wonder 143421, Long Price 2d 146679, and others. Their dams are by Chief Price, Longfellow 3d, A Wonder 107353, etc. Come and see my stock or let me know your wants. Farm adjoining 3 railroads, 2 blocks from depot. **PETER ELLERBROEK, SHELDON, IOWA**

20 Head of Bred Gilts

OF the big type, bred to Big Price 154369, one of the good big ones. A Chief Price bred hog, with size and quality galore. Prices right. **SCHAIN & KEEP, ATLANTIC, IOWA.**

When writing to advertisers please mention this paper.

IMPORTANT DUROC SALE

AT "A" AVENUE SALE BARN
CEDAR RAPIDS, IOWA,

FRIDAY, JAN. 28, 1910

50 Head Richly Bred 50 SOWS

FROM THE FOLLOWING
WELL-KNOWN HERDS—

**EDWIN HUMMER, IOWA CITY, IA.
C. R. MILLS, CENTRAL CITY, IA.
Patten & Morris, Springville, Iowa.**

We are listing nothing but the very best, believing that buyers appreciate the profitable kind. Write for catalogs, mentioning The Homestead.

EDWIN HUMMER, IOWA CITY, IOWA.

Cols. McGowan and Day, Auctioneers.

Send bids to Mr. Dante M. Pierce, representing Homestead.

POLAND CHINA SWINE.

FIFTY LARGE-TYPE, BIG-BONED BRED SOWS 25 EXTRA GOOD BOARS

TRIED sows, fall yearlings and spring gilts, sired by P. W. Giant, Hadley, Jumbo and Long King. Bred for March, April and May farrow to Hadley, Jumbo and Victor. Last named boar sired by Big Victor, second aged boar at Lincoln, 1909. They are smooth and well grown and in fine condition. Sold 900 head in seven years; shipped to eight states, many on mail order, with perfect satisfaction to buyers. Can furnish testimonials from all buyers. My herd boars are the tops of the best herds of the big type. Farm 1½ miles north of town. Pedigrees time of sale. Write name and address plainly to **F. W. McINTYRE, Route 5, RED OAK, IOWA.**

Miller's Tecumseh 117017

1,000-Pound Boar heads my herd. I have a grand good lot of spring boars sired by him, also by Major Hadley and Multiplier. If you want the big type, big boned, stretchy fellows, write me or come and inspect my herd. Address **H. PRITCHARD, WISNER, NEB.**

50 Big-Type, Big-Boned Bred Sows

WE are offering 50 head of extra fine, big-type, big-boned, quality kind. These are sired by our invincible trio of big boars, viz.—W.'s Major, 45237, Young Look 4772, Fawcett Price 47721, and bred to above-named boars and a grandson of Grand Look and Expansion. Twenty-one sows farrowed 210 pigs in 1909. For size, quality and prolificacy, these cannot be beaten. Guaranteed as described. Priced right. Call or write. **WILLIAMS BROS., Route 3, VILLISCA, IOWA.**

BERKSHIRE SWINE.

PRINE FARM BERKSHIRES

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address **George S. Prine, Oskaloosa, Iowa.**

PREMIER BELLE'S DUKE

Is the sire of many of the offering to be sold at public sale February 11, 1910. They are bred to Baron Duke 154th by Baron Premier 40th. Write for catalog.

J. W. OGLE, AMES, IOWA.

HOLT'S PRIZE-WINNING BERKSHIRES

THE records of leading state fairs show the superiority of my stock. Am pricing the tops of my boar crop by Matchless Premier and Governor, by a son of Imp. Lord Minting. Write for prices. Bred sow sale in February. **W. R. Holt, Falls City, Neb.**

Choice Berkshires for Sale

LUSTRE'S Combination J. 2d, prize boar at Iowa State Fair, and gilts sired by him, open or bred; also two tried brood sows at reasonable prices **Orlando Jacobs - Medinapolis, Iowa.**

BERKSHIRE SWINE.

BERKSHIRES

Why not breed the hogs that pay the largest profits—Berkshires? From 300 to 700 always on hand. One of the biggest and best herds in the world. 50 pedigreed Bred Sows, now ready for sale.

MORGAN FARM-BELOIT-WIS

CHESTER WHITE SWINE.

SCARFF'S O. I. C.'s

AM offering a fine bunch of O. I. C. males and gilts with extra length and bone, sired by sweepstakes boar, Norway Chief, and Ohio Chief. Prices \$20 and up. Write for descriptions. **J. T. SCARFF - SALEM, IOWA.**

INTERNATIONAL HERD OF CHESTER WHITES

BOARS all sold. Have a fine lot of yearlings and gilts safe in pig to as good boars as money can buy. Anything you want sent on approval. **J. L. BARBER, R. 3, HARLAN, IOWA.**

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. **Fred Ruetush, Sciota, Ill.**

MEHRING choice O. I. C., strong-boned, smooth, well-quartered gilts for sale; some fine Shropshire ewes; low price. **H. C. Mehring, Manson, Ia.**

When writing to advertisers please mention this paper.

Duroc Jersey Show Sows

AT PUBLIC SALE AT

Mason City, Iowa, February 2, '10

WE ARE long on quality in this offering, even if we are a little short on numbers. Show sows of show blood and bred to boars that carry the most prominent show-yard strains of the breed, cannot fail to produce show pigs. That is the kind we sell. Some tried producing sows, daughters of Ohio Chief, Model Wonder by the sweepstakes Crimson Wonder Again, Model Chief Jr., Jumbo Jack by a grandson of Protection, etc. Twenty-five great gilts with backs to beat the band, heads and ears that set the style and feet and legs that were made to order. Why not? They are daughters of Model Improver (champion at the Minnesota State Fair and sire of state fair winners), O. T.'s Model (prize winner at three state fairs), and Iowa Chief (a double-bred Ohio Chief that also has ribbons to his credit at three great state fairs). They are bred to Golden Model Jr., Notcher Chief and Model Improver. J. L. McIlrath, auctioneer. Send mail bids to C. C. Carlin, of The Homestead, in my care. Send for catalog.

O. T. BALMAT & SON, MASON CITY, IOWA

AND BREEDING SOWS TOO

GO IN MY CLOSING-OUT SALE

Mason City, Iowa, February 3, '10

HAVING sold my farm, I am obliged to close out my herd of Duroc Jersey hogs, which will compare favorably with the best in the land. I believe I have as strong crosses of Ohio Chief, Advance and Crimson Wonder strains, as good individuals to prove the value of the crosses as any one breeder. Fourteen of them are matured producing sows that money could not buy if I were not quitting the business. Daughters of Model Chief, Model Improver (Minnesota sweepstakes), Keep On, Chief Advancer, Phallas, Advancer Boy (full brother to Proud Advance, Advancer, etc.), and out of sows by Model Improver, Advancer and Proud Advance. Twenty-five gilts by Proud Wonder (son of Crimson Wonder Again), Chief Advancer and Duroc Wonder. They are mostly bred to the Morton-bred Chief Select 88307, the most intensely Colonel-bred boar in the West, as well as a prize winner at the Ohio, Indiana and Kentucky State Fairs. A few are bred to Proud Wonder. Colonel McIlrath, auctioneer. Send bids to C. C. Carlin, of The Homestead, in my care. Catalogs ready.

G. H. Purdy, Mason City, Iowa.

THOMPSON'S BROOD SOW SALE

AT DEZNEY'S SALE BARN

CENTRAL CITY, NEB., MONDAY, JAN. 24, 1910,
WILL CONTAIN

70 Head Poland Brood Sows and Gilts

AND will include among other choice things, Proud Giantess, the grand champion sow of Nebraska and Kansas in 1909; Famo XV., grand champion sow, Nebraska, Missouri and Kansas, 1908; 10 fall yearlings by Pan Jr., sisters to Mollie K., grand champion sow, Nebraska, Missouri and Kansas, 1907, and Colossa, first prize gilt under 6 months, Nebraska and Kansas, 1909. These sows and gilts are bred to such boars as Grand Look, a winner of 17 firsts and sweepstakes in 1906; Tom Crowder, first prize junior yearling, Kansas, 1909; Black Chief, the sire of Nebraska Mogul; Onward Chief, the 1,000-lb. grandson of Expansion, the sire of second and third prize boar pigs at Nebraska, 1909, and Perfect Pan, a son of Pan Jr. Col. Callahan, auctioneer. Fred Larkin will represent The Homestead. Catalogs are now ready and may be had upon application to

THOMPSON BROS., INDIANOLA, NEBRASKA.

DE VAUL'S HAWKEYE DUROCS

At Auction On the Farm Four Miles Northwest of
INWOOD, IOWA, THURSDAY, JAN. 27th

40 HEAD 15 aged sows and fall yearlings, balance spring gilts, Wonder, Bon Bon 2d, Iowa Notcher, Golden Jim Jr., Jim Advance, and are bred to Robert J. and W. S. Choice by Bon Bon 2d. Among the aged sows are some of my best brood sows that I am putting in only as attractions. My gilts are of the large and roomy kind and stand well on their feet. Attend this sale and you will not be disappointed in my herd of Durocs. Free entertainment and free transportation to and from the farm from Inwood. Write for a copy of the catalog, now ready.

C. A. DE VAUL, INWOOD, IA.

Cols. C. E. Luther and H. Y. Moen, Auctioneers.

CHESTER WHITE SWINE.

Iowa Herd of Improved Chester White Swine

40 Aged sows for sale, reasonable, sired by such noted boars as Monarch Jr., Jerry S., Captain, Col. Sutton, Chief Commander and Allright. These sows will be bred to White Rock and Christopher 1st; latter won first and champion, Iowa State Fair, 1908; first and champion, Nebraska and Illinois State Fairs, 1909. Also two aged boars and a number of spring males and gilts. If in need of anything in this line, write me today or visit my herd. 1 ship on approval; if not satisfied, no sale. Mention Homestead. Thos. F. Kent (Successor to Geo. H. Lawshe), R. 2, Walnut, Iowa.

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 2d 5465, champion Iowa State Fair, 1909, and Minnesota State Fair, 1909; and Modeler 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented.
W. F. HEMMERLING
DIKE, IOWA.

Rogers' Dispersion of Chester Whites

ON JANUARY 28th, at my farm, in Inwood, Iowa, I will disperse my entire herd of Chester White hogs, consisting of tried sows, fall and spring gilts, all bred. For catalogs, which are now ready, address
A. A. ROGERS
INWOOD, IOWA.

Mear's Chester Whites

4 fall boars and a great string of pigs by
NEPONSET ED. 16711
Are ready to ship any day. All are strictly high-class. Write or come.

E. L. MEAR, LAMAR, MO.

AMERICAN HERD OF IMPROVED CHESTER WHITES

Thirty choice spring gilts for sale, bred to Attractor 19289, a boar of extra length and bone, for March and April farrow. Call and inspect them or write for prices and descriptions.
ALDEN ANDERSON, RADCLIFFE, IOWA.

BROOD SOWS—Reserving nothing but the aged sows; will let go best stuff I have raised. Bred to such boars as Joker, that has won more premiums than any hog living or dead. A "Triumph" hog that sold for the largest price of any hog of the breed. Weighed at 19 months, 720 lbs., and two extra good young hogs. J. H. Mahannah, North English, Iowa.

Evergreen Herd Chester Whites

A CHOICE lot of gilts now on hand. The best I have ever raised. My prices are always reasonable. Write me at once. Address
W. H. DUNBAR - JEFFERSON, IOWA.

I PAY EXPRESS

CHARGES and ship C. O. D. Choice Chester White bred gilts, no akin. Catalog free. Address
B. M. BOYER, FARMINGTON, IOWA.

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa.

O. I. C. The World's BEST HOGS

Seventy-five boars from 100 to 200 pounds and fifty gilts, same weight, of leading prize-winning blood lines—big-boned, good footed and good backs. Bred sows and fall pigs—special proposition—under guarantee. Write me now. Address
I. M. FISHER, BOX H, HASTINGS, NEB.

25 FALL PIGS FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Aledo Belle and Delta Girl. These pigs will be priced worth the money.
E. L. NAGLE & SON, Deep River, Iowa.

Crosier's Choice O. I. C.'s

AM offering the strongest lot of spring boars sired by Kerr Dixon and Kerr Solomon, and out of Kerr Garnett, White Oaks and other equally as well bred sows. Get price and description. Address
Chas. W. Crosier - Juniata, Nebraska.

Two Good Chester White Herd Boars for Sale

THESE are May yearlings, or will exchange one for another herd boar. Also fall boars and choice spring boars for sale. Prices reasonable.
S. J. Philson - Harlan, Iowa.

Vanderslice's Chester Whites

OUR show records stand unsurpassed. We have 20 gilts, March and April farrow, sired by All O. K. 12095 and Lincoln 12443 and bred to Tony Kerr. Get our price on your wants. 12 miles southeast of Lincoln. Vanderslice Bros., Cheney, Neb.

CHESTER swine. Only 3 male pigs left for sale; 20 good gilts. Will not ship poor ones. Write for particulars, prices. H. F. Gustoff, R. 1, Coon Rapids, Ia.

CHESTER WHITE SWINE.

CHAMPION CHESTER WHITE SWINE

Write me for choice stock of either sex for breeding stock, and show stock, a specialty.
F. P. WHITE, NEW HAMPTON, IOWA.

DUROC JERSEY SWINE.

DUROCS

WE are breeding a string of sows and gilts for our winter sale that you'll like. All the popular blood lines. "Always trying to better the best." Watch this space—we'll tell you more about it.

G. W. HUFF, MONDAMIN, IA.

J. O. REECE & COMPANY

ELDORA, IOWA.

OFFER an excellent lot of spring boars at farmers' prices. Sired by Gold Bud, hc by Golden Rule and Iowa Notcher, hc by Top Notcher. Write for particulars and descriptions.

GOLDEN BEAUTY 51083

FOR sale at bargain price. An entirely out of E boars. Extra choice lot of gilts for sale, sired by Mayor Jr. Wonder, third prize senior boar, Iowa State Fair, 1907. Prices right. Address
H. W. Lineweaver, South English, Iowa.

J. D. Wright, West Liberty, Ia.

OFFERS spring pigs of either sex at bargain prices. Fashionable families. Individual excellence to suit discriminating buyers. Write for prices and descriptions or visit herd.

DUROC JERSEY BOARS FOR SALE

6 YEARLING and fall boars sired by Crimson King, a son of Crimson Wonder; 30 spring boars sired by Lafollette, Model Prince, Crimson King and other boars. Prices reasonable. Address
E. B. RYAN - NEOLA, IOWA.

Crimson Wonder I Am

SIX winter boars by this great sire now ready to go out. All of them crackers. Three fall boars by American Crimson Wonder. Nothing but show yard quality to offer. U. G. Davidson, Scranton, Iowa.

YOUNG'S DUROC JERSEYS

HEADED by Kants Crimson, an outstanding boar of Kant Be Beat and Crimson Wonder breeding. Will price good males of March farrow; also a fall yearling of great promise. Write for price and description. E. K. Young & Son, Havelock, Neb.

BROOD SOW SALE JAN. 25th

I WILL sell forty of the best Duroc Jersey brood sows in my Jan. sale that have ever been driven through a sale ring. Write for my catalog at once
C. E. VEAK - ESSEX, IOWA.

Frontier Duroc Jersey herd. Best breeding. Boars and sows of March farrow for sale at reasonable prices. Solon Elmaker, Batavia, Ia.

BRED sows for sale; safe in pig by Crimson Rambler, Model Chief 9th and Crimson King. Prices reasonable; sows guaranteed. Jno. Justice, Ankeny, Ia.

DUROC JERSEY SWINE.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY.

Write Your Wants.

DEFENDER and KING WONDER

First and second-prize junior yearling boars at Illinois State Fair, 1909, both sired by King of Colonels, head my herd of Durocs, assisted by Ransom Chief by Ohio Chief. The sows in my brood sow sale, January 11, 1910, will be bred to these boars. Catalogs ready January 1st. Write for one, mentioning this paper.

ERNEST PANCAKE, RANSOM, ILLINOIS.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

Duroc Jersey and Shropshire Sheep Sale

81 Duroc Jerseys, 58 Shropshires, at my farm near Tippicanoe City, Ohio, February 5, 1910. 51 bred sows, 30 gilts and boars, 52 ewes, 6 rams, best of blood lines. Igleheart and Reppert, Aucts. Write for catalog.
D. H. WARNER, TIPPECANOE CITY, OHIO.

Duroc Jersey Boars, \$25 Each

20 BIG-BONED fellows, sired by Col. Chief and a son of Russell's Critic. These are the pick of 150 head. \$20 while they last. Address
J. P. PETERSON, HERMAN, NEBRASKA.

GOLDEN MODEL

HEADS herd, assisted by Advancer 1st. Have some great sows and gilts bred to Golden Model for early farrow. Public sale February 1, 1910.
W. R. BENNETTUM - MADRID, IOWA.

Duroc Jersey Gilts

A FEW choice gilts of good breeding, out of matured sows, and bred to Royal Advance 81963, Royal King and Model Duke (son of Golden Model 2d). C. E. Longmeyer, Maxwell, Iowa.

KEAN'S DUROC Bred gilts, popular breeding at moderate prices. Address
FRANK KEAN, MT. PLEASANT, IOWA.

Deyoe Bros., Mason City, Iowa, breeders of Duroc Jerseys. Bred sows for sale. Ohio Chief and Advancer strains; bred to a Col. boar.

BIG DUROC DISPERSION

HELD IN PAVILION AT

Friend, Neb., Tuesday, January 25, 1910

Will contain in all **75 Head** 40 AGED AND FALL YEARLINGS, 33 GILTS AND 2 HERD BOARS **75**

AND every profit maker I own, including such as Glendale Maid, a three times sweepstakes winner by Glendale Critic and three daughters by sons of Ohio Chief and Model Chief. Red Bud I. by Medoc, Lucy Advance by Billie K., out of a litter sister to Proud Advance; Belle's Lady by Adams Express, a full brother to Crimson Wonder, and several others of equally as good breeding and individuality. There is also a line of fall yearlings that are very strong. The spring gilts are by Billie Davis, King Perfection (a son of Van's Perfection) and I Am A Crimson Wonder, the sensational spring boar at Des Moines and Lincoln, 1908. The offerings are bred for the most part to Billie Davis, he a son of Tom Davis, out of Red Bud I., and I claim for him more size and flesh-carrying qualities, with good bone, feet, hams and breezy head than any boar in the West; and to Crimson Wonder Jr., a show boar by I Am A Crimson Wonder, out of an Orion-Jr. Jim-bred sow. They also sell. Get my catalog now ready. Bids should be sent to Fred S. Larkin, in my care. Col. W. F. Waldo, Auctioneer.

Frank Alldritt - Friend, Neb.

Current's Big Duroc Sale

TO BE HELD AT

Hildreth, Neb., Thursday, January 27, 1910

30 Head 1 Aged Sow, 3 Fall Yearlings and 26 Spring Gilts **30**

CONSISTING of one aged sow, three fall yearlings and twenty-six spring gilts. The aged sow is Beautiful One, a choice sow of Orion-Proud Advance breeding, and several daughters of Jumbo Jr., twice a winner of first prize at Nebraska State Fair, and Rosebud's Echo 82261, a second-prize winner of 1909, with others by Inventor, a valuable son of Inventor, Kant Be Beat Jr., Farmer Burns, Echo Top, and are bred to the herd boars, Rosebud's Echo 82261 and Inventor 82297. The size and quality of my offering compare favorably with any I have made in the past and I feel that I have one that will compare with any made anywhere and one that will satisfy the most exacting, not only in breeding, but in quality. The catalogs are now ready. Bids should be sent to Fred Larkin, in my care. Col. W. F. Waldo, Auctioneer. Address

T. J. Current, Hildreth, Neb.

(POSTPONED)

MOSSMAN'S COL. SOW SALE

Radcliffe, Iowa, Monday, January 24, 1910

45 Head--20 Yearling and Aged Sows--25 Spring Gilts

The Offering is the Best That We Have Ever Selected for a Sale.

The yearlings and aged sows are sired by such noted boars as Tientsin, Tientsin No. 2, Crimson Chief, Iowa Chief, Waveland's Ohio Chief, A. L.'s Chief and others. The gilts are by Colonel's Prince and Iowa Chief. They will be bred to Iowa Colonel, Model Advancer, Gold Prince, Gold Prince II. These boars are rich in the blood of Prince of Colonels, High Chief, Ohio Chief, Model Chief, Advancer. Quality, size and breeding of the offering make it easily one of the strongest of the entire year. Write for catalogs. Bids sent to Dante M. Pierce, will be properly handled. Address for catalog, mentioning Homestead,

A. L. MOSSMAN & SON, RADCLIFFE, IOWA.
Cols. Fred Reppert, O. L. Mossman, H. L. Igleheart, Aucts.

VEENKER'S BIG DUROCS

AT AUCTION

WEDNESDAY, JANUARY 26, 1910

I will sell on my farm, five miles east of George, Iowa, one mile west and six miles south of Little Rock, Iowa, five miles west and two miles north of Ashton, and there will be free accommodations to and from the farm from all these points; thirty-eight head in the sale, sixteen sows and fall gilts, and twenty-two spring gilts. They are the daughters of Sioux Chief by Sioux Brave, Minor Heir by Star Marshall and Bon Bon. There will also be three November yearlings, sired by Junior Jim; their dam is Sadie by Tolstoi. They are about the best in the sale. They are bred to Crimson Dale, he by Dale, the sweepstakes hog in Minnesota, Rex Wonder Jr., by Rex Wonder. Sale will be held in a tent; free lunch at noon. Cols. C. E. Luther & Son and Scott Martin, auctioneers. E. T. Parker, fieldman for The Homestead. For catalog, address

R. C. VEENKER, GEORGE, IOWA.
Attention is called to the sale of C. A. De Vaul, Inwood, Iowa, January 27th, Duroc sows, and A. A. Rogers, Inwood, Iowa, January 28th, Chester Whites.

DUROC JERSEY SWINE.

\$25--Bred Sows and Gilts--\$40

THE blood of Ohio Chief, Crimson Wonder, Glendale Critic and Improver II. represent the sows. Billie Davis by Tom Davis and Crimson Wonder Jr. by I Am A Crimson Wonder are the boars the sows and gilts are bred to. Write your wants. Address FRANK ALLDRITT, FRIEND, NEBRASKA.

Elder's Durocs

KING OF COLS. I. L. G. C. COL. and 30 of Grant Chapin's best brood sows were purchased and from these I have 125 choice spring pigs. Herd boars and choice breeding sows will be my specialty. Write your wants.

FRANK ELDER, GREEN, KANSAS.

REEDS' DUROC JERSEYS

BOARS all sold. We now offer high-class bred sows, sired by Model Chief 94969 and Advancer 28273, and bred to such noted boars as Model Chief 44969, Advancer 28273, the grand champion, Model Chief 2d 53753, and White Hull King 15977.

C. W. & W. L. REED, ROSE HILL, IOWA.

Bargains in Bred Sows

SPRING, \$25; fall yearlings, \$30; old sows, \$35 to \$50. Our herd contains the blood of Tip Top Notcher, Crimson Wonder Again, Top Notcher Again, Proud Advance, Orion, Educator and other noted sires. Our sows are noted for producing large litters of strong, vigorous pigs. A few good spring boars left at \$20 each.

WOODLAWN FARM, STERLING, ILL.

Junior Yearling Show Prospects

WE are offering for sale two junior yearling boars that are show prospects. One by Col. Gladness, and one by The King. Write us if in need of a show boar or a breeding boar.

J. A. Shelton & Son, Manilla, Ind.

Duroc Jersey Boars \$20 \$25

CURED by King's Col., King Solomon, I Am A Crimson Wonder, Belle's Proud Chief and Model Chief 3d. These are special prices to close them out. Address August Finger, Avoca, Ind.

DUROC JERSEY SPRING PIGS

SURED by King Orion, Wonder Boy, Peter The Great and Bartlett's Tip Top. Prices reasonable. Correspondence solicited.

EVERETT BARTLETT - COLUSA, ILL.

Pleasant Lawn Duroc Jersey gilts, safe in pig for March and April farrow; good bone and good color. Frank Warwey, Mt. Pleasant, Iowa.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner

HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

S. E. EAKLE

PROPHETSTOWN, ILLINOIS.

Offers a great bunch of spring pigs by S. E.'s Model by Model Chief, Model Wonder, Col. King, Model Again, Nebraska Belle's Ohio Chief and Gold Cloud. Size, finish, bone and quality. Priced to move quickly. Write for descriptions.

HIGH-CLASS DUROC JERSEY BRED SOWS FOR SALE

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel boar. These are good. Will not hold a sale and am selling them privately. Address

J. D. McDERMOTT, WIOTA, IOWA.

Boars All Sold

We are breeding a splendid lot of sows to Golden Model, Proud Wonder and Golden Model I Am, for our brood sow sale, January 31st. Remember the date.

OLSON BROS., WOODWARD, IOWA.

Bred Sows for Sale

EXTRA good Duroc Jersey gilts of good strains of breeding, raised for size, and bred for early litters to a son of W. L. A.'s Choice Goods. Will also sell my herd boar, Porter's King of Cols. Write for prices or come and see them.

J. C. PORTER - OGDEN, IOWA.

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banker 6457, out of Junior Jim, Ohio Chief and Kant Be Beat sows. VON SEGGERN BROS., WISNER, NEB.

Speirs' Durocs Bred sows for sale; Ohio Junior 3521, Silver King, Red Eagle, Dandy Boy boars in service. G. W. Speirs, Hedrick, Ia.

25 Duroc Jersey Bred Sows For Sale

I AM offering a choice lot of bred sows and gilts at private sale, bred to Iowa Model 24215 and Fancy Orion 86301. These sows are sired by the leading boars of the breed. Prices reasonable. Write me at once. Address MARK W. EDDY, FONTANELLE, IOWA.

HARDING'S HERD HEADERS

WRITE me now if you want DUROC JERSEY BOARS. I have several yearlings by Ohio Chief, out of Proud Advance dams; one yearling by Ohio Chief out of Nebraska Belle; 15 fall boars by Crimson Critic, and a grand lot of spring boars. Address R. J. HARDING, MACEDONIA, IOWA.

COL'S KING

A full brother to CHIEF'S COL. and ARTHUR'S CHOICE

FIRST prize boar Illinois State Fair, 1907, head my herd. For sale--5 September boars by Arthur's Choice and 125 spring pigs, both sexes, sired by Col's King, Arthur's Choice, Inventor, Kelly's Pilot Wonder, Orion Chief, Locust Lane Chief and Joe Orion. Write for prices. ARTHUR L. PARKS, LELAND, ILLINOIS.

FIRST PRIZE BOARS FOR SALE

KANT Be Beat Again, first prize junior yearling Ohio State Fair, 1909; sired by Good E Nough, dam Our Pride, a second prize-winner at St. Louis. Nuggett, first prize under year and junior champion Ohio State Fair, 1909; sired by Golden Rule, dam Cedarvale Queen 8th. He is a full brother to Good E Nuff. Write for prices and description. Mention The Homestead. WATT & FOUST.

Cedarville, Ohio. Xenia, Ohio.

MUNCIECHIEF

LITTER mate to King of Colonels heads herd. 1 Spring pig by Muncie Chief, Nebraska Belle's Ohio Chief 71911, Savannah Belle's Chief I Am, and other noted sires.

A. P. ALSIN, BOONE, IA.

W. J. HARTUNG

MAXWELL, IOWA.

Offers 25 choice Duroc sows for sale, sired by S. E.'s Jr. Jim, Advancer IV., Golden Model II., and bred to W. J.'s Colonel by Prince of Colonels and son of Golden Model II. for March and April farrow. Priced from \$25 to \$50. Write if you mean business.

Brother Breeders and Farmers Read 30 CHOICE Duroc bred gilts, bred to No. 1 hog, best that could be found in the country; heavy bone, with length of body combined; will make a 1,000-lb. hog. Many gilts by last of January will tip the beam at 300 lbs. Every one guaranteed. Write or better come and see me. Jos. Bouska, Calmar, Ia.

MIDLAND Durocs--8 gilts and 2 sows, bred for April farrow, for sale. The big-boned, growthy kind at moderate prices. S. J. Butts, Mason City, Ia.

CHIEF'S COL. BOAR PIGS

OUT of the great brood sow, Helen Blazes, and sows by Ohio Chief, Proud Advance and other great boars. Pigs ready to ship. Address for price and description.

H. E. Browning, Hersman, Illinois.

Do You Want a Well Bred Duroc Jersey Boar

I HAVE them and they are good, sired by such noted boars as Crimson Wonder Again, Guthrie Chief, I Am Advance, Golden Model 2d and others. Write me for prices on these boars.

GEO. H. MILLER, CHARITON, IOWA.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

High Notcher

Glad Col. and King's Col. head my herd of DUROC JERSEYS

Write for what you want.

M. A. Kraschel, Macon, Ill.

CRIMSON WONDER AGAIN

DUROC boars for sale--herd headers in type, style and finish. 60 spring pigs sired by Iowa Chief and out of Proud Advance dams. Some excellent fall boars for sale at farmers' prices.

C. O. THORNBURG, Pleasantville, Iowa.

For Sale--My Duroc Herd Boar Ruberta Belle's Wonder S1351; also a few of his pigs. L. L. WOODS, GRINNELL, IOWA

SOUTHWEST IOWA DUROC JERSEY SALE CIRCUIT

VEAK'S GREAT DUROC SOW SALE

FIRST DAY OF THE
SOUTHWESTERN
SALE CIRCUIT

Essex, Iowa, Tuesday, January 25, 1910

40 HIGH-CLASS SOWS AND GILTS BRED TO H. A.'S CHOICE GOODS, HIGH COL., MODEL PRINCE AND PROUD COL.

Attractions: Proud Lady's Best, first-prize sow at Des Moines in 1908; Village Queen by Cole's Duroc; Ruberta Billie by I Am A Wonder; Madison Lady by Proud Chief Orion; Model Queen by Model Prince; Avoca Chief by Ohio Chief, bred to Choice Goods; a fall sow by Proud Ohio Chief, a show proposition, and other good sows. The gilts are sired by Model Prince, H. A.'s Choice Goods, Russell's Critic, Model Chief 8th and Chief's Col. Also a good yearling sow by Proud Chief out of Savannah Belle. Cols. F. F. Luther and Alvah Manifold, Auctioneers. M. T. White, Field Man for Homestead. Write for catalog and mention Homestead.

C. E. VEAK, ESSEX, IOWA.

FORTY HEAD BRED SOWS AND GILTS

Nevinville, Iowa, Wednesday, January 26, 1910

Second Day of the Great Southwestern Sale Circuit

HERD HEADED BY VALLEY KING 87311, the best son ever sired by Valley Chief. 1 Valley Chief sow; 2 C. G.'s Choice Goods gilts, fall yearlings; 2 W. L. A.'s Choice Goods gilts out of an Ohio Chief dam. Iowa Model by Commodore, also used in this herd; he is a good, deep, smooth, two-ended hog, heavy bone. Both these boars are great breeders for size and quality. 1 Crimson Wonder Again yearling is probably the best sow in the sale; she won sixth at Des Moines in 1908. Cols. F. F. Luther and Alvah Manifold, Auctioneers. M. T. White, Field Man for Homestead. Write for my catalog at once and mention Homestead. Address

S. J. MADISON, NEVINVILLE, IOWA.

SEXSMITH & STRONG'S BROOD SOW SALE

Third day of the Southwestern Sale Circuit

Greenfield, Iowa, January 27, 1910

FIFTY---EXCELLENT SOWS AND BEST OF BREEDING---FIFTY

THEY are bred to Golden I Am by Golden Rule; Proud Col. by Prince of Cols.; The Col. by King of Cols. II; a good son of Valley Chief and the champion boar, H. A.'s Choice Goods. There are 4 daughters of Crimson Wonder Again, dam Ohio Belle; daughter of Ohio Chief and Nebraska Belle in our sale. 3 daughters of Valley Chief; 10 daughters of H. A.'s Choice Goods; 5 daughters of Proud Advance; 2 daughters of Ohio Chief. Others by Model Wonder, Chief's Col., Lafollette, Ohio Chief Again, Keep On Protection and other well-known boars. Cols. Luther, Reppert and Manifold, Auctioneers. M. T. White, Field Man for Homestead. Write for catalog, mentioning Homestead.

Sexsmith & Strong, Greenfield, Ia.

CRIMSON WONDER AGAIN 40785

First Prize and Sweepstakes
Boar Iowa State Fair 1906

HERE ARE THE WINNINGS OF HIS
GET FOR 1909, IOWA STATE FAIR:

First on boar under six months.
Second on boar under six months.
First on sow under six months.
Second on sow under six months.
Fourth on aged boar.
Fifth on senior yearling boar.
Third on boar under 12 months.
Sixth on boar under 12 months.
Fourth on aged herd bred by exhibitor.
First on young herd.
First on young herd bred by exhibitor.
Second on get of sire.
First on litter.
Fifth on litter.

NEBRASKA STATE FAIR, 1909:

Second on aged boar.
Third on aged boar.
Fourth on senior yearling boar.
Third on boar under 12 months.
First on boar under six months.
Third on boar under six months.
Second on junior yearling sow.
First on sow under six months.
Third on sow under six months.
Fourth on aged herd.
Second on herd under year.
Fourth on get of sire.
First on produce of sow.
Second on produce of sow.

H. S. ALLEN'S GREAT CRIMSON WONDER AGAIN SALE

Chariton, Iowa, January 28, 1910

40 Head--15 Gilts, 25 Yearlings and Aged Sows

TWENTY-FIVE head bred to Crimson Wonder Again, the most sensational sire of winners of the present time. There will be 12 head of Crimson Wonder Again sows in the sale, bred to Model Chief 8th, second-prize boar at Iowa State Fair; 5 daughters of the great Valley Chief, all bred to Crimson Wonder Again; 1 Prince of Cols. sow bred to Crimson Wonder Again. I am also selling Lady Wonderful, second prize sow at Nebraska State Fair and Queen Wonderful, both daughters of Crimson Wonder Again, bred to Model Chief 8th. Here is the greatest offering I have ever sold and I question whether a better offering will go through a sale ring this year. Cols. F. F. Luther and Alvah Manifold, Auctioneers. Send bids to M. T. White, Homestead representative, in care of Mr. Allen. Write for my catalog and come to the sale. Address, mentioning Homestead, to

H. S. ALLEN, RUSSELL, IOWA.

M. T. WHITE, HOMESTEAD REPRESENTATIVE, WILL ATTEND THESE SALES AND WILL CARE FOR BIDS SENT HIM IN CARE OF ABOVE BREEDERS

DUROC JERSEY SWINE.

High-Class Duroc Jersey Boars for Sale

I HAVE two litters by my great State Fair winner, Guthrie Chief, out of Belle Advance by Advance. Also two litters by Ohio Chief I Am out of a Pip Pop Chief and a Guthrie Chief sow. Also some splendid Chief Col. boars, as well as others by other noted sows. These are good and I am pricing them right.

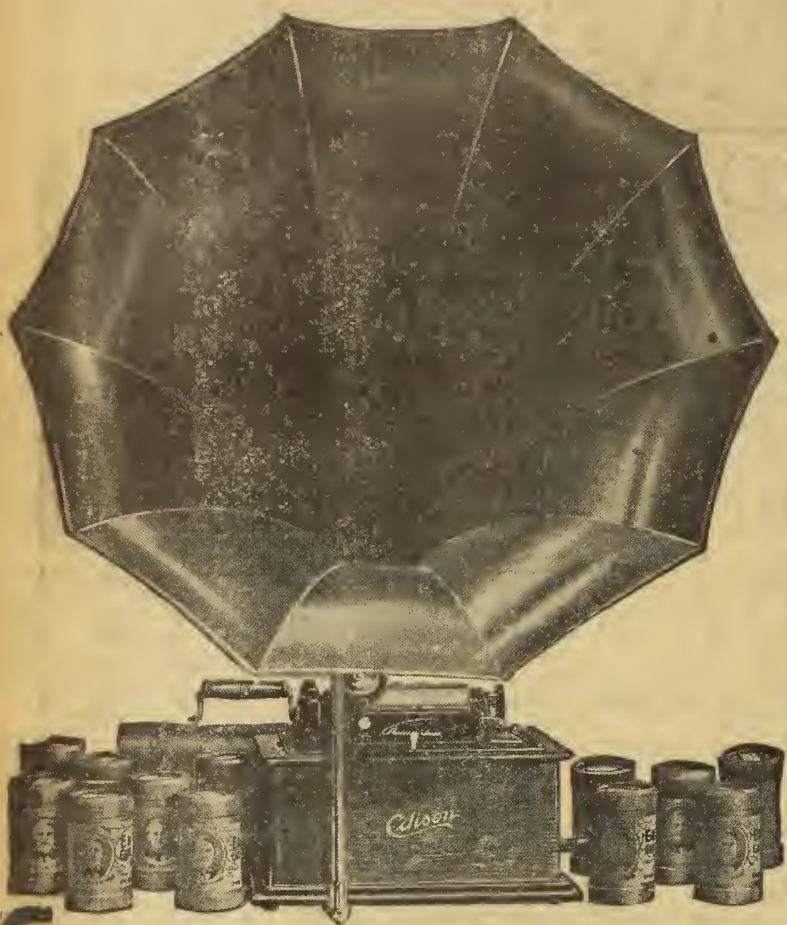
S. L. HOPPER

NEOLA, IOWA.

DUROC JERSEY SWINE.

Chapin & Nordstrum's Durocs

LITTERS by King of Cols. II, G. C.'s Col., G. C.'s Kansas Col. and Kelley's Pilot Wonder, Dams by Model Chief Again, C. E.'s Col. 2d, W. L. A.'s Choice Goods, Morton's Decree, etc. This yearling and 3 fall boars for sale; good ones. Also some bred gilts for fall litters. Chapin & Nordstrum, Green, Kansas.



The Edison!

The Latest Style EDISON Phonograph in Our New Outfit No. 10—this superb entertainer, Mr. Edison's latest, final improvement of phonograph—shipped

FREE!

Yes, free. I don't ask a cent of your money—I don't want you to keep the phonograph—I just want to give it to you on a free loan—then you may return it at my own expense.

Read the Offer:

I want you to get this free outfit—the masterpiece of Mr. Edison's skill—in your home. I want you to see and hear Mr. Edison's final and greatest improvement in phonographs. I want to convince you of its wonderful superiority. Give a free concert; give a free minstrel show, music, dances, the old fashioned hymns, grand opera, comic opera—all this I want you to hear free of charge—all in your own home—on this free loan offer.

MY REASON—My reason for this free loan offer, this extra liberal offer on the finest talking machine ever made—see below.

MR. EDISON Says: *"I Want to see a Phonograph in every American Home."*

The Phonograph is the result of years of experiment; it is Mr. Edison's pet and hobby. He realizes fully its value as an entertainer and educator; for the phonograph brings the pleasure of the city right to the village and the farm home. Now, the new Fireside Edison Phonograph of our outfit No. 10, 1910 Model, is the latest and greatest improved talking machine made by this great inventor. Everybody should hear it; everybody must hear it. If you have only heard other talking machines before, you cannot imagine what beautiful music you can get from the outfit No. 10. This new machine is just out and has never been heard around the country. We want to convince you; we want to prove to you that this outfit is far, far superior to anything ever heard before. Don't miss this wonderfully liberal offer.

My Reason

I don't want you to buy it—I don't ask you to buy anything. But I do feel that if I can send you this great phonograph and convince you of its merits, of its superiority, you will be glad to invite your neighbors and friends to your house to let them hear the free concert. Then, perhaps, one or more of your friends will be glad to buy one of these great outfits No. 10. You can tell your friends that they can get an Edison Phonograph outfit complete with records for only \$2.00 a month—\$2.00 a month—the easiest possible payment and, at the same time, a rock-bottom price. Perhaps you, yourself, would want a Phonograph, and if you ever intend to get a phonograph, now is the chance to get the brand new and most wonderful phonograph ever made, and on a most wonderfully liberal offer. But if neither you nor your friends want the machine, that is O. K.; I simply want you to have it on a free loan, and perhaps somebody who heard the machine will buy one later. I am glad to send it on a free loan offer anyway. I will take it as a favor if you will send me your name and address so I can send you the catalog—then you can decide whether you want the free loan. There are no strings on this offer, absolutely none. It is a free loan that is all. I ask not for one cent of your money, I only say if any of your people want to buy a phonograph, they may get one for \$2.00 a month, if they want it.

Now, remember, nobody asks for a cent of your money I want every responsible household in the country, every man who wants to see his home cheerful and his family entertained, every good father, every good husband, to write and get these free concerts for his home. Remember, the loan is absolutely free from us, and we do not even charge you anything C. O. D.

Write for the FREE Edison Catalog

In this catalog you will find a complete

list of music and vaudeville entertainments. You can pick out just the kind of records you want for the entertainment you want on this free loan in your own home. Get this catalog at once, then you can decide whether or not you want a free loan and when you want it. You can also decide just the music you want. Remember, I will appreciate it as a favor if you will give me the opportunity of sending you this latest style machine—the climax of Mr. Edison's skill—on this free loan offer. I will appreciate it especially if you will send me your name and address anyway right now, so I can fully and clearly explain our methods of shipping the Edison Phonograph on a free loan offer. **SIGN THE COUPON TODAY. Do it right now.**

CUT OUT AND USE THIS COUPON



Write Today for this interesting catalog **FREE**

Just sign and mail the coupon at the left, and get this **FREE** catalog. Write **TODAY**

F. K. BABSON, Edison Phon. Distributors, Dept. 3781, EDISON BLOCK, CHICAGO, ILL.
CANADIAN OFFICE: 355 Portage Avenue, Winnipeg, Can.

FREDERICK BABSON, Edison Phonograph Distributors, Dept. 3781, 355 Portage Ave., Winnipeg, Canada.
Without obligations on me, please send me your Great Edison Catalog, and also full explanation of your Free Loan Offer on the Edison Phonograph.

Name _____
Address _____

No letter necessary; just sign and mail this free coupon right NOW.



SOWING THE BIG, FAT GRAINS.

There is one ambition uppermost in the mind of every man who sows grain. It is to obtain as large a yield as possible. The result at harvest time depends upon a variety of conditions—conditions that have surrounded the crop during the growing season. Of these, none are of greater importance than the matter of giving the crop a strong start, and a strong growth from the beginning can only be obtained by using heavy seed.

According to the law of ancestral heredity, each generation has an almost exact influence on the generation that follows. For example: To the parents is attributed an influence amounting to 50 per cent; the grandparents 25 per cent; the great-grandparents 6¼ per cent, and so on. Carrying back ten generations we find that the individual that far back affects the progeny ten generations down the line only one-thousandth of 1 per cent. From this it must be apparent that the generation close up to the individual that we are dealing with is the one that most nearly determines the character of the offspring. This law has been worked out most carefully in connection with animals, but it applies in the case of plants, and in our opinion there is no place where its application is of more importance than in connection with small grain such as oats, wheat and barley. In other words, it is the top crosses that count most and that impart character to the individual.

Making the application now to small grain, it cannot be denied that by sowing heavy grain we at once take advantage of the law that works for improvement, because the "pull" of the improved parent is upward, while the "pull" of the inferior parent is downward. We realize that the argument is sometimes advanced that a large kernel out of a head of grain has no more hereditary influence for the better than a small kernel, or, in other words, that all kernels from a given head of grain will have the same productive value. We cannot take any stock in this theory, for the simple reason that experiments in sowing heavy grain year after year have demonstrated that the effect is to increase the yield per acre, as compared to the plan of sowing grain without first grading it. The Ontario station has demonstrated this conclusively, so that it may be regarded as a settled fact. The only conclusion that we

can come to, therefore, is that the farmers of the great central West should settle down to the uniform practice of grading their grain. The light grain should be blown out and the small grain sifted out, leaving only the heavy seed for use. By this practice a better stand will be obtained in the beginning, and we cannot help but think that plants from good, plump, fat grain will stand more hardship than if they were produced by weak seed.

We have stated in the past that in the wheat-growing region of western Canada it is not uncommon to find men putting their grain through a fanning mill five or six times, and indeed we have before cited an instance where one extensive wheat grower graded his grain eight times. In one particular instance we know that by a system of grading seed for 5,000 acres was raised from sixty pounds to sixty-four pounds per bushel before sowing. This wheat grower has been operating the same farm for practically thirty years, and under his management, by sensible care of the land and by properly handling his seed, the soil is producing more today than it ever produced in the past. The man who fails to grade his seed before sowing it this spring greatly reduces his chances of getting a good crop—a maximum crop.

HOG CHOLERA SERUM SCARCE.

Every mail brings a number of inquiries to this paper from swine breeders, requesting information concerning the matter of obtaining a supply of serum used for the prevention of hog cholera. In order to make a gen-

eral answer to all inquiries of that character, we cannot give the status of the matter in a better way than to quote from Doctor Melvin's recent address delivered before the convention of stockmen at Denver. Doctor Melvin is, of course, head of the bureau of animal industry of the national department of agriculture. On this point he says:

Further work during the year has confirmed the results previously obtained from the use of serum prepared according to the bureau's method for the prevention of hog cholera. The value of this serum has been confirmed by experiments by veterinarians connected with various state organizations, and it is also gratifying that scientific workers in Germany and Hungary have confirmed the work of the bureau. We are now trying to improve some of the details of producing this serum and to reduce the cost.

The department of agriculture is unable to undertake the preparation of the serum on a large scale for general distribution for hog raisers, and we have therefore endeavored to have the authorities of the various states take up this work for the benefit of their citizens. A number of conferences have been held with state representatives and at least twenty states have undertaken the preparation of the serum to a greater or less extent. Eleven states have each appropriated sums exceeding \$15,000 per annum for this work and more than 25,000 hogs have been treated with serum prepared by state representatives with satisfactory results.

From this it is apparent that the state experiment station is to be the source of a serum supply in the immediate future. Instead of making application to the national department of agriculture, communication should be established with one's own station by those who desire to try the effect of hog cholera serum on their herds. Practically every station of the corn belt is doing some work along that line, and a limited supply of serum will be available for use during the

present season for those who will comply with the conditions.

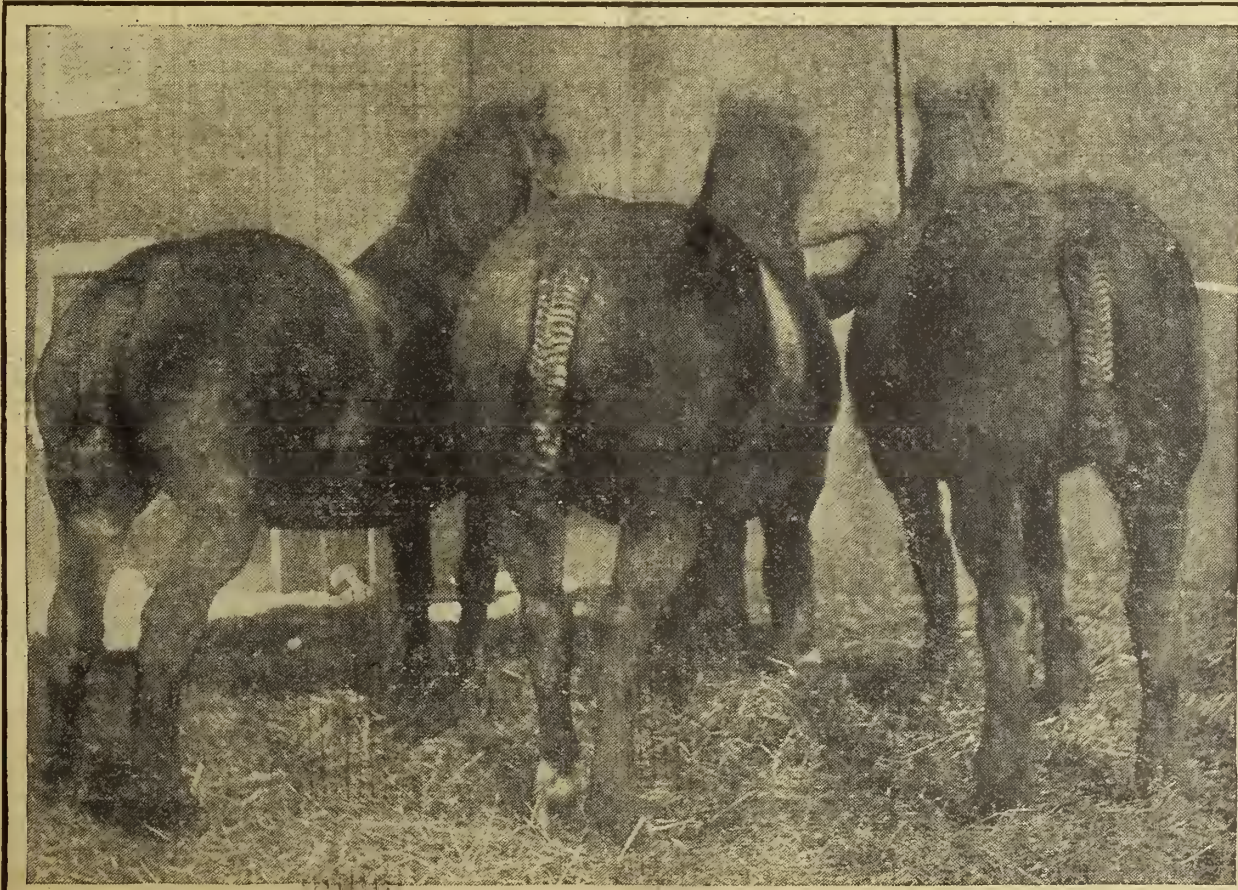
LET THE SUNLIGHT IN.

The cold, cloudy and misty days always turn one's thoughts to the discomforts that follow the young animals on the farm. The lots, floors and beds get wet, and the pelts of lambs, pigs and calves gather moisture indoors and out. The feeble animals are easily chilled and the body warmth of even the robust is taxed, so that a part of the feed goes only as so much fuel to keep up the normal temperature. This feed increases the feed of support, and lessens the amount to be directed to increase of growth.

Dark, damp days and dark, damp pens or beds are then not only a tax on the vitality of the young animals, but also on the feed bin. As in extremely cold days more fuel is required in our stoves, so the young animals will enjoy more heat-making feed, on damp and cold days. We can easily make good to them by a little more fat-making food, for fat formers are all heat makers.

The dark, damp pen not only breeds discomfort and taxes vitality, but it improves the conditions in which germs of disease multiply. A certain amount of dampness and darkness favors the rapid increase of microbes, that are the prolific source of disease. Dryness checks their development, but does not destroy them. They are only dormant, ready to renew their increase as soon as the needed moisture is supplied.

The dreaded cholera germ may lie dormant for months in a dry place, as biologists have shown. One left some cholera culture on a card to dry in his laboratory for several months, and then scraped the card and put the dried germs into a bottle of culture, and found it alive in a short time with the deadly germs. Another exposed such germs to the sunlight for a few days, and found that they were destroyed so effectually they would not revive when placed in the culture under the most favorable conditions. It is tedious work, and may seem to some an insignificant and even cranky thing for an able-bodied, educated man to spend time fooling with such a little and invisible thing as a microbe or germ, but its value increases with our intelligence to understand the lesson—sunlight destroys disease germs. Sunlight is essential to life. It is as essential to health. The chemists have, after



PERCHERON MARES INCLUDED IN THE PUBLIC SALE OF MESSRS. JAMES LOONAN AND T. F. GLENNY, AT WATERLOO, IOWA, ON FEBRUARY 17TH. SEE ADVERTISEMENT ON PAGE 43.

years of research and study, found what they call antiseptics and disinfectants, that check the development of microbes, provided they are used in the right manner in quantity to reach every nook and corner in which the microbe may find lodgment. But they are all loud smelling or vile tasting, and never give the real satisfaction that comes from sunlight.

It ought to be clear to every farmer that the best, cheapest and surest method to keep his stock healthy is to let the sunlight into the stables and pens and let the animals out into the open air enough to invigorate and cleanse them as no disinfectant can.

There are cloudy and rainy periods when our animals are short of sunlight, when dampness increases in pens and beds and conditions favorable to increase of microbes and disease trouble us. Some resort to disinfectants and exchange the musty smell of the damp quarters for the louder smell of coal tar. That may be the thing to do, but it is not the thing to do to rely on the disinfectant and neglect to let in the sunlight as soon as the clouds go by.

Clean out damp bedding and all the corners where fine filth is crowded and loaded with microbes and let in more sunlight and put in dry bedding. If the stable or pen is so built that the sunlight cannot pour into every nook and corner, then spend money to change the structure to let the sunlight in.

THE COST OF MONEY MAKING.

There is an easier way of doing farm work than there was thirty years ago, thanks to machinery, but now and then a farmer is found who does not and seemingly will not take things easy. Such an individual is usually successful as far as money making goes, but a driver of everyone around him and his hard way of doing things makes his kind of farm life exceedingly uncomfortable for all drawn into it. The following letter from a Kansas reader explains what is going on close by him:

Why can men be so foolish in their mad chase for the almighty dollar that they forget the comforts of themselves and all around them? I have a neighbor who works as if he had to accumulate just so much in hard cash during the time allotted him here on this earth to keep him out of perdition hereafter. He and his boys work in weather not fit for man or beast to be outside, and they work early and late. Sometimes I see them coming in from their work in the field on a stormy night, just at dark, with an hour or more of choring yet to do before the day's work is done. These boys are all of school age, and there is a truncheon law in this state, but for some reason it is not enforced in this case. The man has so much work to do that he feels he cannot spare the boys from home, not even in winter, after they become fourteen to fifteen years of age. But who has created all this work? The father is himself responsible. He takes on job after job until it is a case of rush all the time, with every member of the family large enough to work kept busy all the time. Talk with the man and he leaves the impression that the work must be done, and he squares it with himself for keeping the boys home from school on the ground that he cannot hire satisfactory help. He loses sight of the fact that the work is not forced on him, but that he has deliberately and voluntarily forced it onto himself, because he makes money by doing it.

This neighbor does make money, probably more money than any other farmer in the township, but what good is his money going to do him? He "salts" it away as fast as he gets it; the work he does in his driving way to get it is driving the boys away from home as soon as they become barely of age, and they go out in the world uneducated and tired of farm work. They have had every honest ambition they ever had ground away from them at home. Between home building in its fullest sense, and money making, he chooses money making. He is a good neighbor and I would not disclose his name to the world for anything, therefore I must ask you to conceal my own.

Just how common cases like the one related are in the corn belt no one is able to say. There might be some who would say none of the kind existed at all, but we know better. We know our Kansas reader is writing the truth, and that the case he describes is that of a near neighbor. We can only hope the cases are few and find satisfaction in the fact that the future is going to see still fewer.

For any man, be he farmer or townsman, to so far forget everything else but money until he makes his family slaves to the one satisfying whim of acquiring it, seems a trait apart from any that is human. The dangerous thing about it is the man committing the crime does not know it. He may be able to realize it if he sees it committed by others, but he can see nothing like it in his own family affairs.

When his boys grumble at the work they must do he blames it on the influence of the times, and says the growing generation do not like to tackle work like he had to when a boy; when they leave home early in life he says they do not know what a good home is, and if they afterwards fall at some business undertaking, due to the lack of education given them at the proper age for educating, he says they would not stay at home and listen to good home advice. Years afterward, when the father dies and leaves his accumulated wealth to his children, if the children prove spendthrifts and the money left them is soon gone, the world may blame the money spenders, but the foundation for all was laid when the money was being made, from the time the child was old enough to work until of legal age.

We are glad instances like the one related are the exception. Time was when farming was all work, and the hardest of hard work at that, but that time has forever gone. The thirst for money is abusive however. It abuses the man who has it and he, in turn, abuses everyone around him, by the grinding toil he exacts. When we, seldom though it is, run across a farmer who puts money before everything else—the holding together of his family in a happy home circle, the education of his children, and the respect and parental admiration that should go back from son to father—we feel sorry that his talents have become perverted and have led him astray. A life lived solely for the accumulation of money is worse than wasted.

SWINE ECONOMICS.

The high range of prices for hogs in the markets, coupled with the limited number of brood sows in the hands of farmers, will quite naturally induce a great many men to become liberal buyers at the brood sow sales of the next two months. They are to be commended for this mode of procedure, if for no other reason than because of the chance of improvement that such purchase may work in their stock. There is always a greater profit in well-bred stock than in that which lacks the quality that goes with improved breeds. But, while the course gives promise of added profits, it brings, also, additional responsibilities. It does not follow that pure-bred hogs require greater care than do grades, but it is a sensible business proposition to give the more valuable animals the more careful attention which is a guarantee of better results.

This involves, at the start, such quarters for the brood sow as will insure comfort, but not pampered ease. A good hog shelter is not of necessity an expensive one. It should be proof against drafts yet so ventilated that there may be no accumulation of foul air. It must be dry. No hog has any assurance of health and thrift if compelled to sleep in a wet or damp bed. Damp and drafty sleeping places are bad enough for mature animals but sure death to young pigs. Frequent changes of bedding are essential. This is a fact that should be kept constantly in mind. It is not a bad plan where it can be so arranged to have the sleeping places and feeding places separated as widely as possible. This as a means of encouraging exercise, which is most necessary during the period the sow is carrying her litter. Much might be said on this point, but every man who has given the matter attentive observation must admit that the active sow that is given a good deal to foraging expeditions is the one that farrows good litters of strong and thrifty pigs. Profit by the hint. The artificial environment to which the brood sow is subjected makes it necessary that artificial methods be employed in order that natural results be obtained. So, with the plan of supplying food to the sow without effort on her part to obtain it, we must take some means of giving her the effects of the exercise which under original conditions would have been obtained in her endeavors to provide herself with sustenance.

The system of feeding is to be based upon the same theory. Advice on feeding is so often given and so little appreciated that little will be said on that point, important as it is. It will

be in line, however, to cite the practice of a patron of this paper. Particular reference is made to this gentleman because he is a successful hog raiser. His brood sows produce large litters, and raise them, and the size of his matured hogs has been constantly increasing while the usual experience of his neighbors is just the opposite on all points. Pasture and oats are his main dependencies. Corn with him is merely an incident to be used in small quantities and that only during cold weather. This plan applies to brood sows and growing pigs. When hogs are to be gotten ready for market the limit is removed and corn is fed freely. Clover hay is made a regular ration at all times when grass is not available.

In the experience of the writer it has been found to be advisable to make no change in the feed of the brood sow at farrowing time. If the manner of feeding and the feeds have been appropriate the natural instincts of the sow may be depended upon to take the proper course. There is always danger that a change in plans of feeding may cause a disarrangement of the digestive system, which, at the critical period of farrowing time, is to be avoided. Diarrhea in young pigs is not infrequently due to this cause.

Having good sows, proper care at farrowing time means just the difference between profit and loss on the investment represented by the value of the sows, and this care is swine economy.

HIGH PRICES OR POOR LIVING, WHICH?

It is an open question whether the existing high price of living is to be decried or not, taking into consideration the high standard of living which prevails.

A correspondent cites a typical case. He writes that he has a Pole working for him. This man has several children, "every last one of whom wears patent leather shoes. His wife has a \$60 steel range in the kitchen and a piano in the parlor. Now in the old days people of limited means did not have these luxuries. The children went barefooted in the summer and wore heavy, serviceable cowhide shoes in the winter. Only the very well-to-do thought they could have a piano and a \$15 or \$20 stove was good enough for almost anyone's kitchen."

Look into the case of this Pole farm hand, for a minute. In his native land he worked for a few cents a day, subsisted on black bread and a stew concocted of the most ordinary vegetables and considered himself wealthy beyond the dreams of avarice if he secured a new outfit of peasant raiment once every four or five years. Yet Poland is not confronted by the high price of living. Poor wages are paid there, poor living is the rule. Take this transplanted Poleander when he first came to America, say about fifteen years ago. He found day laborers in the city working for \$1 or \$1.25 a day, where today they receive \$1.50 or \$1.75. He found doctors charging \$1.50 a visit in the city and from \$2.50 to \$5 a visit in the country, where today they charge \$2 to \$2.50 for a city visit and \$5 to \$10 for a country visit. He found farm hands receiving \$10 or \$15 a month, where today they receive \$25 or \$30. But coincidental with these low wages and fees, what were the living conditions then as compared with the conditions of today? In most farm homes the only musical instrument was an organ. Today an excellent piano can be bought for \$200, the price of the organ of fifteen years ago. Today the farm sitting room has its phonograph, which was an object of curiosity in railroad depots fifteen years ago, but which today is a prime factor in the musical education and culture uplift of hundreds of thousands of homes. Fifteen years ago the farm homes heated by a furnace, lighted by artificial light, approached by a cement walk, enclosed with screen windows and doors, equipped with interior water systems and flanked by sightly outbuildings housing every conceivable labor-saving machine were so few and far between as to be rare exceptions. Today one county in Missouri alone has over twenty farm houses costing in excess of \$10,000 each, while the remodeled or rebuilt farm house, with practically

every city convenience, is to be found in every section.

This matter is succinctly set forth by a member of congress who is a personal friend of Theodore Roosevelt and has studied this problem of high prices carefully. He says:

People used to carry purchases home from stores. Now they insist on having them delivered. And their dealer must charge for his horse, his wagon, his harness and his delivery man. The cost of milk has climbed because the people insist on more style in the manner in which it is brought to them. In the old days there were no bottles, no pretty wagons, no tuberculin tests. The milk was delivered in cans or buckets. Now the milk man has a \$200 horse, a \$250 or \$300 wagon, antiseptic cans, sterilized bottles, sterilizing apparatus in his storage and the customer pays for it. The farmer has the prettiest and latest labor-saving devices. His rubber-tired runabout equipped up to the minute is quickly discarded for a \$3,000 touring car. As a result for all this style the farmer has to charge more for his meats, his vegetables and his grain.

The question naturally arises, would anyone who is denouncing the existing high prices voluntarily return to the old days of low wages and few luxuries, to the days when adulterated foodstuffs, unsanitary milk and uninspected meat were the order of the day? Are high prices so much to be denounced when they bring in their wake a higher standard of living, greater comforts for all the household and larger opportunity to enjoy the really-worth-while things of life?

This is a serious problem and one which calls for the most careful, conscientious investigation. It may be that some genius will arise who will devise a system by which wages and acre profits can be kept up, while the actual cost of living necessities will be lowered. How this could be done it is difficult to figure out, but nothing seems absolutely impossible to American brains. Until the day comes when this new system is perfected, however, every man who (without thinking) decries the existing high cost of living should honestly answer this question: "Would you consent to a return to the conditions of the early nineties in order that living necessities might not cost so much?"

THE MAN WHO READS.

Shakespeare, in describing Cassius, said: "He reads much; he is a great observer, and he looks quite through the deeds of men." He might well have added that Cassius' ability to see through the wiles and machinations of men was the result of his careful reading. Nothing makes a man better posted or better able to take care of himself in his dealings with fellow men or so rounds out the brain as reading; provided, of course, that the things read are of the best sort.

It was this idea which the publisher of The Homestead had in mind when he made up the list of publications given in the 1910 Red Letter Subscription Offer. He wanted every friend and patron to store his mind with the best, most practical things, so as to be a better farmer and a better man. The publications he selected are all designed to assist in bringing this about. Each is a leader in its class and each occupies a separate field. Each is high grade, authoritative and edited with the utmost care by men who are experts in their lines of work. You cannot possibly do better than to take advantage of this Red Letter Subscription Offer. It provides you with the very best reading matter for an entire year and at a price so low as to be the astonishment of all.

The Red Letter Subscription Offer is simply this: Remit \$1.50 to The Homestead, Des Moines, Iowa, and the following six splendid papers will be sent to you for one whole year: The Homestead, The Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry, and The National Swine Magazine. The regular price of these six papers is \$3 a year. By this offer you get them at just half the regular price.

Farm Furrows

TURNED BY A PRACTICAL FARMER

What is more beautiful than an evergreen laden with snow; what more desolate than snow with no evergreen or tree of any kind about?

The earth and the corn shock parts company only after much pulling and prying. Jack Frost has cemented the union good and strong for many weeks. I sometimes think that it would be almost as easy to move the earth as it is the shock.

There are two things I never could make stick. One is "mud" on lath and the other solder on tin or galvanized iron. The other day I fixed a leak in the wash boiler with soft metal rivets. You enlarge the leak until the rivet fits, then head in place. It's easily and well done.

When it comes to paying what seem to be, and most certainly are, excessive express rates on live stock a man out West deserves the largest and greenest laurel wreath that will be handed out this season. A friend of mine shipped him a nice yearling bull and just "to encourage a new beginner" he only charged him \$75 for it. Evidently the express men thought the bull was worth more, for they generously annexed \$85 as express charges. My friend owned the bull 365 or more days and "our friends" had him in transit three or four days. There's some class to the valuation they place upon their services.

I understand that the Red Letter Combination Offer made this year by this paper exceeds in popularity the one offered last year. Thousands are taking advantage of getting six excellent papers for the sum of \$1.50. The combination includes The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. Those who have not yet taken advantage of this offer should attend to the matter at once.

The scientific men tell us that any one of five or more different kinds of germs may produce contagious abortion in cattle. Now isn't that consoling?

I certainly intend to take care of my good friend Bob White. He is having a hard time of it trying to scratch away enough snow to find his daily food. My decision, however, is wholly the result of sympathy for my friend and not a result of the kind advice handed out to farmers by city sports, who are only actuated by a desire to

INSOMNIA.

Leads to Madness, if not Remedied in Time.

"Experiments satisfied me, some five years ago," writes a Topeka woman, "that coffee was the direct cause of the insomnia from which I suffered terribly, as well as the extreme nervousness and acute dyspepsia which made life a most painful thing for me."

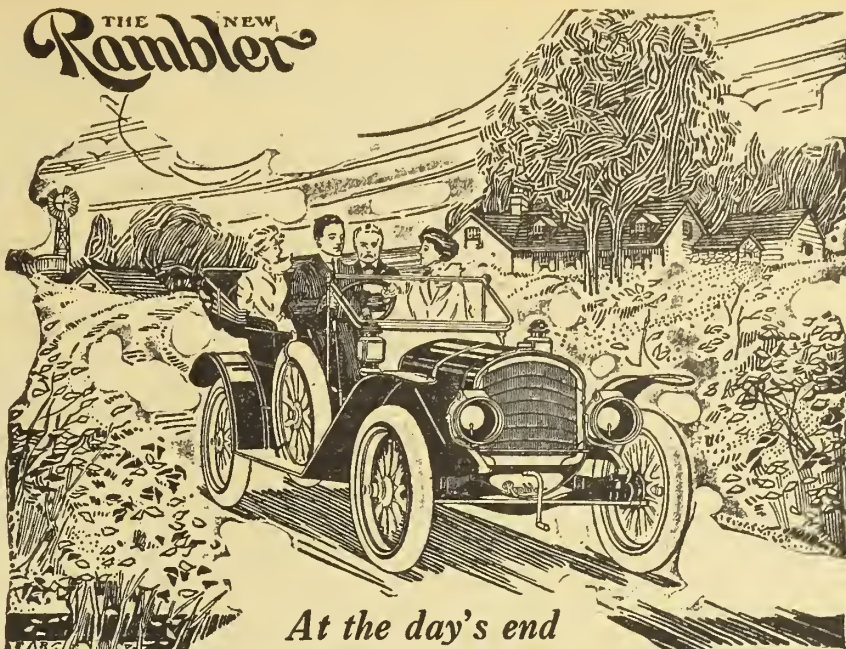
"I had been a coffee drinker since childhood, and did not like to think that the beverage was doing me all this harm. But it was, and the time came when I had to face the fact, and protect myself. I therefore gave up coffee abruptly and absolutely, and adopted Postum for my hot drink at meals."

"I began to note improvement in my condition very soon after I took on Postum. The change proceeded gradually, but surely, and it was a matter of only a few weeks before I found myself entirely relieved—the nervousness passed away, my digestive apparatus was restored to normal efficiency, and I began to sleep, restfully and peacefully."

"These happy conditions have continued during all of the five years, and I am safe in saying that I owe them entirely to Postum, for when I began to drink it I ceased to use medicines." Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

THE NEW Rambler



At the day's end
Let work and worry end

Consider the joy of the Rambler owner who, when evening comes, deserts tired horses and tedious tasks, joins his family and is off to town, to friends, theater or library. Strangely enthused by the stir and speed of the journey, he returns refreshed at leaving familiar things behind.

The New Rambler takes the hills lightly on high speed, because of offset crank-shaft. No fear of deep mud because of Rambler engine power. Ruts and stones cannot bother with 36-inch wheels and Rambler clearance. Tire trouble can cause no worry with the Rambler Spare Wheel. Besides, there is a certain pride in the ownership of a car of quality, for the new Rambler is superior to all in efficiency and better than any in dignity, silence and comfort. These features are essential in a car for use on country roads. Experience will show you that they are not mere talking points.

New booklet now ready—a
postal card will bring it to you

Thomas B. Jeffery & Company

Kenosha, Wisconsin

have some good shooting some time in the future.

When it comes right down to a real nice point there is nothing which quite comes up to a Southdown for supplying a real choice carcass of mutton. With this breed it is pretty much mutton and all mutton.

So far this has been a very bad winter for sheep. Work as he would, the flock master has been up against it to supply the flocks with a sufficient amount of exercise. The snow has either been too deep or the wind too searching much of the time and as a consequence the ewes have been confined to their sheds and yards. Unless conditions change this will in all probability result in a considerable loss at lambing time.

After eating a stack of cakes made from what was supposed to be good old-fashioned buckwheat flour, we are inclined to express our disgust in terms even less mild than those used by a Chicago editor. It seems that he had some time in his boyhood eaten some real buckwheat cakes, for he recently wrote in the following strain: "Now that winter, the approach of which our senses noted several weeks ago is recognized formally by the calendar as being here, the thought of man, of unspoiled, plain-living, unostentatious man, turns longingly to that glory of departed days, that perfect production of the griddle and the old-fashioned coal or wood-burning stove, that unknown thing in the land of the steam-heated flat, that sacrifice to the perfection of modern living, that regretted product of a lost art of our forefathers—the buckwheat cake."

Can anybody explain why it is that a mule of a given weight is so much stronger than a horse of the same weight? I know that here and there a man will be found to make the claim that he owns a horse that will outpull

any mule of his inches, but for my part I shall continue to hold the notion that the mule is the stronger animal.

One of our neighbors who is in the habit of leaving everything to that blessed trinity of chance, accident and mistake is saying some unpleasant things these days about the weather. Every bit of corn fodder he has is out in the field and safely snowed under.

Some time ago I stated that I was having trouble to keep a water pipe from freezing. This pipe was placed in a circular brick foundation under a ninety-barrel tank. A subscriber, Mr. J. C. Wright, says he has prevented freezing by putting a 1x6-inch box around the pipe, then covering this with asbestos paper, after which a 1x10-inch box is made and the outer box is also covered with asbestos. This leaves two dead air spaces around the pipe, and he afterward fills the space between the brick foundation and the outer box with straw.

A group of farmers were recently discussing the question as to what farm animal made the most pleasing musical note. One stated that the crow of the rooster on a nice, spring morning fell more pleasantly on his ear than the sound made by any other fowl or beast. Another man thought that it was the whinny of the horse when he gave expression to his joy upon the return of a mate that had been taken out of his sight for a time and afterward returned to his stall. Those are fine sounds, indeed, but for me I prefer the cackle of the old speckled hen when eggs are selling at forty cents a dozen, or the grunt of satisfaction emitted by a fat shoat when the hog market is quoted at \$8.50 per hundred.

The new year found a good deal of corn in the field and the prospects are that it will stay in the field until

spring. Winter came with a rush in good earnest last fall.

A straw shed makes good shelter for hogs during cold weather, provided it is built so that the hogs can dig into the straw for a bed without going through walls, or arranged so that plenty of dry bedding can be given them easily.

There is some truth in the saying that it is hard for a person with a sunny disposition to lay up any money for a rainy day.

The ice man and the coal man are smiling and not saying a word against having an old-fashioned winter. The farmer, as usual, says nothing—just saws wood.

There are some farmers who seem to take more interest in the imports and exports of the United States than they do in the imports and exports of their own farms.

A good, soft bed of clean straw is highly appreciated by all kinds of farm animals except the hens. Hens, as a rule, are above sleeping on any kind of a bed.

We have been having a rather long spell of steady, cold weather, and unless it warms up pretty soon we will hear from the chronic grouch who will tell us that the winters will grow colder and colder until everything freezes up into a big ball of ice.

THE ONLY WAY TO BUY A FARM.

Buying land for a home without knowing all about it is blind and foolish speculation. Settlers or homeseekers should go down and investigate conditions for themselves before buying. The Western Louisiana Settlement at Pickering, now developing, situated along the Kansas City Southern Railway, has issued an illustrated booklet, free on application by any one interested in that country, having plenty of rainfall, with healthful and pleasant climate, where good farming and the best fruit and truck land in this country can be had for \$10 an acre, on easy terms. Address J. D. LaBrie, General Land Agent, 539 Keith & Perry Building, Kansas City, Mo.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

THE MEAT BOYCOTT.

From an idle jest in a lunch room in Cleveland, Ohio, an apparently national movement has been inaugurated against the practice of eating meat. In the city of Cleveland alone it is estimated that 100,000 people have pledged themselves to abstain from meat eating for thirty days. As a result of the agitation, the Ohio legislature has appointed a committee to investigate the problems of meat production, in order to ascertain if possible whether or not illegal combinations have anything to do with boosting prices. The boycott has spread rapidly until it is now having its effect in practically every city of the United States, and it is altogether probable that congress will be forced to make an investigation, not only in regard to the high price of meat, but of food-stuffs in general.

As a result of the boycott the members of the Western Stock Show Association have become aroused and at a meeting held recently, with 500 members present, the following resolution was passed:

We condemn this movement as calculated to discourage an increased production of meat animals. We believe that stockmen and farmers of the United States should be given every incentive for increased production rather than discouragement. The present prices of meat are caused by the increased demand due to the growing population of the country and the low prices that have heretofore prevailed are responsible for the failure of the producer to keep pace with the increase in population.

We call the attention of the public to the fact that on the production of live stock in a large measure depends the fertility of our soil and, consequently, the production of agricultural crops.

With the increase of our population it is the duty of every patriotic citizen to encourage agriculture in every possible way. We assert that the present prices for meat are not unduly high as compared with the prices on all food products. The present movement to boycott the use of meat food is popularly supposed to be aimed at the packer, but in reality it is a blow at the stockman and farmer and is calculated to decrease production rather than materially to reduce prices.

Every man in the great central West who owns a cow is of necessity interested in this nation-wide move-

ment. Just how much illegal combinations among purveyors of meat have to do in boosting prices, we are unable to say, that being a matter that can be found out only after making extended investigations, but as we understand the situation, the present boycott can have no other permanent effect than to make meat even scarcer than it is at the present time. The ruling prices for live stock at present, and covering the last twelve months, are in no wise out of proportion to the cost of production. Meat cannot be made cheaper with corn at sixty cents a bushel and with nitrogenous by-products soaring almost to the point that makes their use prohibitive for meat-making purposes. It takes a courageous man to feed cattle under the circumstances, and it will certainly be a fatal blow to the industry if the present movement should result in slaughtering prices to such a point as to incur heavy losses for those courageous men who are now engaged in feeding their grain to live stock instead of marketing it direct.

THE GUARANTEE PLACED ON SEEDS.

A law suit from which a valuable lesson may be learned was tried in a prosperous section of the grain belt recently. A farmer went to the nearby town and ordered ordinary red clover seed, sufficient for fifty acres, of a seed house which bears a splendid reputation. He was given what purported to be the seed desired, returned to his farm and seeded the fifty acres. To his astonishment (and probably to his disappointment), the crop produced was mammoth clover. Instead, however, of bringing the crop to maturity, harvesting it and securing what returns might be had, the farmer immediately made up his mind that the seed firm was liable for damages because of selling him the wrong seed, and so neither cut the crop for hay nor harvested it for seed. He brought suit against the seed house for the average returns of the entire tract of fifty acres.

As every reader knows, the distinguishing feature between ordinary red clover and mammoth clover is that the latter grows taller, and considerably coarser in the stem. On rich soil it not infrequently attains a height of four or five feet, and when such is the case it lodges badly. Indeed, both of these varieties of clover tend to lodge on rich soils, and because of that tendency it is common practice to use some timothy seed along with the clover.

The case was in the district court for a period of four days, and during that time a large number of witnesses appeared for the plaintiff and an equally large number for the defendant. There was considerable conflict in the testimony as to the actual value of the crop, most of the witnesses for the plaintiff contending that the crop was so tangled that it could not be harvested, while several witnesses for the defense, who had examined the clover, expressed themselves as believing that the crop could have been harvested. The judge directed the verdict in favor of the defendants, stating as the grounds for this ruling, that it was not the practice of seed companies in this country and in Europe, to warrant their seeds on the basis of trueness to name. The defendant produced catalogs of over one hundred American seed dealers and forty foreign seed dealers, all containing a so-called disclaimer refusing to warrant seeds.

It seems that in this particular instance the receipt given the farmer when he paid for his seed had printed on it the disclaimer of the company, expressly stating that they refused to warrant the seed. In view of the fact that it was an apparent universal custom to refuse to warrant seeds, and that special pains in this particular instance were taken by the company to make known that fact, the judge held that the plaintiff in this case was not only presumed to know of this non-warranty clause in the contract, but that he was bound to know it, and that the contract must be viewed in the light of the custom which seemed to be established. Even should the law require that the purchaser of seeds should be given notice that said seeds are not warranted, the plaintiff in this case was still confronted with the

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Spring painting time will soon be here and buildings will need one or more coats of pure white lead and linseed oil, for livening them up or to save them from decay. We have a special word for those who have used our white lead before and could not be induced to use anything else in their painting.

It is about our new steel keg. This is a new package this year and takes the place of the long familiar oak keg. The white lead is the important thing, but knowing the package insures your getting the genuine material. Please look at the illustrations below—the new kegs are of steel, gun-metal finish, and come in two shapes as pictured. The one-hundred pound size has parallel sides; the smaller sizes taper toward the bottom.

Steel is the ideal material for packing white-lead-in-oil for paint purposes because, not being porous, it does not absorb the oil, and the lead always stays moist. The three smaller sizes named have bails and, being steel and seamless, they make the finest kind of utensils for various purposes after the white lead has been used. Liquids can be boiled in them.

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receipt which was given him by the company, and which was received when he paid for the seed.

This is an important decision from the standpoint of the farmer and seed companies in general—important, inasmuch as it calls special attention to a custom that now practically amounts to a law that seeds are not sold under a warrant as to trueness to name. Fortunately, cases of this kind are exceedingly rare because self-interest prompts every individual and company engaged in the seed trade to take the utmost care in delivering seeds that are identical with what is ordered.

There is another very interesting side to this case, that relating to the relative value of the crop grown from the seed obtained and the crop that would have been produced had the proper variety been secured. No ruling was made on this point by the judge, but as a matter of fact, the plaintiffs in this case blundered seriously when they refused to harvest the crop because, in any event, only such damages could be obtained as would amount to the difference in the value of the two crops. It may be interesting in this connection to state

that more than one witness who examined the crop at the time when it should have been cut for seed, expressed himself as believing that the yield of seed would range anywhere from four to seven bushels per acre. As matters turned out, the crop was allowed to rot on the ground, the expense of a lawsuit was incurred, while not one dollar of damages could be collected from the firm selling the seed.

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CURRENT EVENTS

THE second annual conference of state governors was held in Washington last week. In order to be in a position to discuss the administration and its policies freely and to be perfectly independent the sessions were (at the suggestion of President Taft) held outside of the White House. The President welcomed the delegates, however, and expressed himself heartily in favor of the purpose of the meeting, which is to further the policy of the conservation of natural resources, particularly soil, waterpower and forests. President Taft delivered an address to the governors at the opening session, in the course of which he said: "I feel that this is the beginning of conferences which are certain to lead in the end to an adjustment of state legislation that shall make our country capable of doing so much more team work in the public good than has ever been thought possible." The first conference resulted in much of this team work of which President Taft speaks. It will be recalled that President Roosevelt invited William J. Bryan, James J. Hill, John Mitchell and other leading citizens, without regard to party, and that great good resulted from the intermingling and exchange of ideas. President Taft is as heartily in favor of the movement as was President Roosevelt.

THE extent to which interstate commerce regulations apply was illustrated in a novel manner in congress the other day. Representative Lefane, of Pennsylvania, introduced a bill protecting homing pigeons from molestation while making interstate journeys. The bill provides a fine of not to exceed \$50 or thirty days in jail for any person who kills or in any way detains carrier pigeons while in interstate flight. The average person thinks of interstate commerce rulings as applying simply to railroads and steamboat lines, whereas in the near future they will undoubtedly have to be extended to apply to aerial craft. Just how hunters will be able to recognize homing pigeons and to know whether they are on interstate commerce business in the course of their flights is a matter which the bill and congress have not yet determined.

GIFFORD PINCHOT in a public address delivered in Washington made frank acknowledgment that President Taft is heartily in favor of conservation of natural resources. He said: "The great principles we have been working for may be written in our laws now or the chance may pass. Public sentiment is prepared and awake. For the second time a president of the United States has indorsed these principles in a message to congress. Most of the recommendations which the recent message contained are well known to the friends of conservation and well approved. The president urges that the measures he recommends shall be taken up and disposed of promptly without awaiting the investigation which has been determined upon. I echo his desire. There can be no reason to await the result of the investigation before acting on these measures. They stand by themselves." In discharging Mr. Pinchot, President Taft did not show himself opposed to a single conservation issue. It was a question of men and their usefulness, not of any policy and its recognized importance.

LOUIS PAULHAN, the French aeroplanist, was the hero of the aviation meet at Los Angeles. He broke the world's record for a cross-country flight by making forty-seven and one-half miles in one hour, two minutes, and forty-two and four-fifths seconds. Half of the journey was made against a wind so strong that the other aviators refused even to try to make an ascent. During the entire course of his flight Mrs. Paulhan followed in an automobile, weeping and praying all the time. Her hus-

band returned without accident, however, and is now the international hero of the air. The Wright brothers and Glen Curtiss continue to make the more practical flights, while the French aeronauts are loyal to the spectacular. The Los Angeles meet showed that the airship has come to stay, several amateurs having purchased aeroplanes and making successful trial flights in them.

THE retail price of meat is so high in Cleveland, Ohio, that a veritable strike of meat eaters has resulted. Fully six thousand men have signed a pledge to abstain from eating meat for a month in an effort to break the high prices. An effort is being made by their promoters of the plan to spread the doctrine of anti-meat to all parts of Ohio. While the strike is directed at the high cost of meat, the advanced price of other staple foods will not be overlooked. A prominent dealer in live stock is authority for the statement that if meat eating were stopped for one week prices would drop to the right level. This would indicate that the blame for high prices lies on the middleman and retailer, not on the live stock raiser. In order to see just where the burden of the blame rests, however, the department of agriculture is making an investigation, while several states (notable among them being Ohio and Missouri) will investigate on their own account. The facts thus obtained will make interesting and valuable reading matter.

JOHAN R. WALSH, former publisher of the Chicago Chronicle, commenced service during the week of his five-year term of imprisonment in the federal penitentiary at Leavenworth, Kansas. Mr. Walsh was an extensive banker and railroad builder, but was charged with misappropriation of the funds of the Chicago National Bank, of which he had been president. He was tried and convicted and after exhausting every legal resource was compelled to begin service. Mr. Walsh began his business career as a newsboy and subsequently con-

trolled millions in banks, railroads, newspapers and coal fields. In his downfall he undoubtedly had the sympathy of thousands of people, even some of those who lost through trusting him too implicitly. Mr. Walsh is now seventy-two years old and by good behavior his sentence will be commuted to three years and eight months.

SECRETARY BALLINGER has been made the object of attack from another quarter. Charges have been preferred against him by Representative Hitchcock, of Nebraska, and an investigation demanded. The principal complaint is that when Ballinger assumed the office of commissioner of the general land office he reduced the salary of law clerk, Wright, so that Judge Wright's \$2,000 salary "could be given to Jack Ballinger, his cousin, not under the title of law clerk, but under the title, created by Mr. Ballinger, of confidential clerk." "I have been told," added Representative Hitchcock, "that Wright died of disappointment and humiliation soon thereafter." Secretary Ballinger denounces the accusation as being ridiculously false. He claims to be the object of persecution because he is honestly and conscientiously trying to carry on the conservation policy in strict compliance with the statutes. The controversy between himself and Gifford Pinchot, former chief forester, is to be thrashed over in congress and these later charges will probably come in for discussion also.

FOR the third time the house of representatives has passed a bill providing for separate statehood for New Mexico and Arizona. Prospects of the bill getting through the senate are brighter than ever before. The bill would probably have passed at the last session had it been introduced early enough. This time there is to be no delay in getting it to the upper house, so that President Taft may have the pleasure before long of signing a bill giving statehood to the last of the territories.

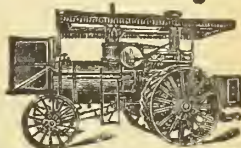
THE house of representatives has chosen Messrs. McCall, of Massachusetts; Olmsted, of Pennsylvania; Denby, of Michigan; Madison, of Kansas; James, of Kentucky, and Lloyd, of Missouri, as its representatives on the Ballinger-Pinchot investigating committee. Three of the members are "standpat" republicans, one is an "insurgent" re-

publican and two are democrats. It is unfortunate that politics have been allowed to dominate the investigation, as what the public wants are the facts without regard to their political complexion or bearing. An effort is being made to create opposition to the administration because of the row. This is not only unfortunate, but unjust and reprehensible.

ANATIONAL testimonial for Commander Robert E. Peary and a purse of \$10,000 for the intrepid explorer who discovered the North Pole are planned for an early date. Commander Peary's claims to "first at the pole" have been allowed and there is nothing to stand between him and the highest honors which the nation can bestow. The money gift should be particularly welcome, as Commander Peary has spent practically all his salary as a naval officer and all his earnings as a lecturer in equipping expeditions into the arctic regions. In his magazine articles he calls attention to the fact that he has spent eleven years out of the last twenty-three in the arctic circle and that there have been many times when he thanked God for a bite of raw dog. Peary endured hardships and won the goal. He is entitled to honors and financial reward.

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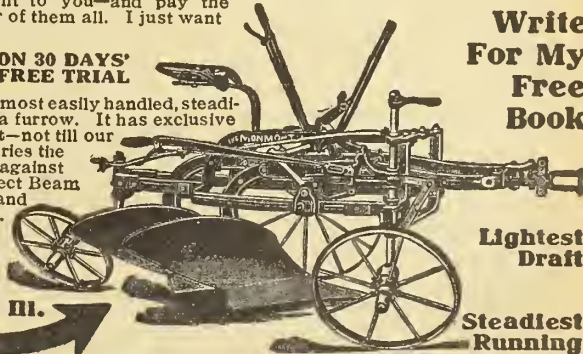


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ENGLAND'S ROYAL STATE FAIR



An Interesting Comparison of the Big Lancashire Exhibition and Typical Grain Belt State Fairs---The Genuine Farmer Conspicuous by His Absence in the Cultivation of English Land



IN A RECENT article I told you of my observations of English farming methods on the occasion of my first visit to the United Kingdom last summer, after a lifetime spent on a typical grain-belt farm. This week I will tell you of the Royal Lancashire Agricultural Show, which might be compared with any of the prosperous and progressive state fairs of our great American grain belt.

Lancashire is in the heart of one of the best farming districts of England, and its annual fair always proves an attraction to everyone at all interested in farming or farm products. You will say that this should include every man, woman and child living within the radius of influence of such a show, but unfortunately for them at least, some people have been quite effectively weaned from the soil. The place of holding the Lancashire fair changes from year to year and in consequence I found no such excellently-kept grounds and well-appointed buildings as we often see on the fair grounds of the states in the grain belt. Last summer the Royal was held at Manchester, a large manufacturing town. The show covered forty-three acres and all the exhibits were under canvas roofs. What would have been done in case of rain, which is not an infrequent occurrence in England, is more than I know or can conjecture. The city of Manchester donated \$15,000 to secure the show. This sum, together with that obtained from admissions, which vary from twenty-five to sixty cents per head, was used to defray expenses and to pay premiums.

First of all I went to see the machinery, for it had been widely advertised as something great. I am compelled to say that compared with Americans these Englishmen show but little enterprise. Two American concerns were represented, one the manufacturer of a rubber-tired carriage in which no one seemed to be particularly interested (for the Englishman wants strong and durable things) and the other was an Illinois company which exhibited among other things a long sickle mower which was the wonder of everyone. The people could not see for the life of them how two horses could manage it, and then they thought it would mow down too much hay and therefore considered it decidedly impracticable and useless.

The poultry exhibit was large, the largest I have ever seen. Here again my impression that farming in England is primarily a pastime for the well-to-do was further strengthened. It is not, as with us, purely a commercial matter. Profit is not the first thought in the farmer's life in England. For instance, in the poultry exhibit they had many birds marked from \$250 to \$500. It was not that these birds were worth such prices, but simply that the owner prized them as pets and therefore did not wish to sell them unless paid a large sum for his affection.

In the cattle stalls there were of course some fine Short-horns, but there were more Kerrys and Dexter Kerrys. These breeds I was told were the hobbies of well-to-do people who farm for



SOWING TIME IN SCOTLAND. THE SCOTCH FARMER TAKES JUST PRIDE IN HIS WELL-BRED AND WELL-FED TEAMS OF CLYDESDALES.

pleasure rather than for profit, but I was disposed to question this statement, for, as I recall it, the Kerry cattle originated in the Kerry Mountains of western Ireland and from time immemorial have been styled the poor man's cow. There are two quite distinct types, namely the Kerry and the Dexter-Kerry. The former is black in color, perhaps the only solid black breed of dairy cattle in existence. The cows of the breed would possibly weigh from 500 to 700 pounds and the bulls would go from 300 to 400 pounds more in weight. The Dexter-Kerry, as the name implies, is a cross

there were but few Berkshires. Hog raising surely belongs to America, and perhaps more properly to the grain belt. The English porker is liable to be a favored family pet and therefore somewhat lacking in the true porcine instincts and tendencies. Do not gain the inference that English hogs are not hoggish. They certainly are, but if there can be a difference in degree, they are somewhat more refined than our hogs.

The butter exhibit was of special interest. The rolls lay in the long grass beneath the canvas roofs and with no ice to keep them intact. This will give you an idea of the climate of England. While you were sweltering in the heat of summer I was needing an overcoat much of the time.

Taken as a whole the exposition was of a somewhat local character. Of course Canada was on hand in good shape, and I dare say Canada is to see some great developments in the next few years. Uncle Sam can well keep his eye on his neighbor to the north, for if Canada has been asleep in the past she is not asleep now.

I left the Royal feeling that the day had been well spent and yet conscious that there was nothing remarkable about this great show except its exhibits of sheep and cattle.

I looked for the farmer and his wife, the farm lads and their sweethearts. I wanted some of

the old-fashioned country gossip of the grain-belt state fairs, but it was all lacking. The farmer, in the sense with which we use the word, was not there. The horny-handed son of toil was a rare sight.

Farming in England, as I have said, is first of all a pastime for the well-to-do. To the American visitor, however, English farming is of special interest because it is well done. In a sense, it is experimental farming. Everything that is raised is raised well. In other words, the real farmer here is an artist who thinks of his cash account as a secondary consideration. He spends much time and patience on everything, whether it be potatoes or Shropshire sheep.

Many times, while at the district school we tried to imagine European farm life, and often wished that our histories or our teachers were able to tell us more about the homes, the farms and the work which farmers across the ocean had to do. While working about the farm we often wondered if English conditions were the same or similar, if the soil was like ours, and if the trees and shrubbery looked as they do in the grain

belt. Many times while caring for the stock we wondered if British horses were larger than ours, if one could find finer sheep on the Scottish highlands than in the grain belt's grassy pastures, and if we should ever have a chance to see the splendid pure-bred cattle which we had been told roamed the well-grassed hillsides of old England and Scotland. Someone had told us about the beautiful dairy cows which were to be found on the little islands of Guernsey and Jersey, but that was not enough; we wanted to see them for ourselves. Then, too, we really wondered if the soil



AN ENGLISH FARM HOME THE YARD WITH ITS SHRUBBERY, VINES, FLOWERS AND GENERAL AIR OF NEATNESS IS QUITE TYPICAL.

or modification of the Kerry. This breed is beefier and blockier in type, and seems to be smaller, although this difference might easily vanish when placed upon the scales.

As I anticipated, the sheep exhibits were fine; in fact I have never seen finer sheep, and I thought that American flock masters were capable of raising as good sheep as any, but since seeing the sheep of Great Britain I am disposed to give England a bit the advantage in this industry.

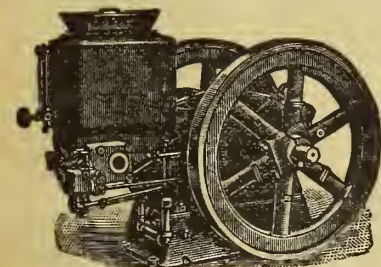
The hogs on exhibit were largely of the red and white breeds and contrary to my expectations



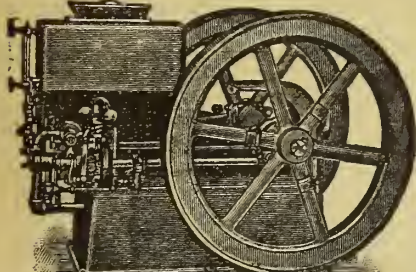
TYPICAL HAYING SCENES IN ENGLAND. THE ENGLISH FARMER CAN HANDLE THE SCYTHE MUCH BETTER THAN DOES THE AVERAGE AMERICAN FARMER. THE HAY TEDDER IS USED TO HASTEN THE DRYING OF THE NEWLY-MOWN HAY BECAUSE OF SO MANY RAINY DAYS.

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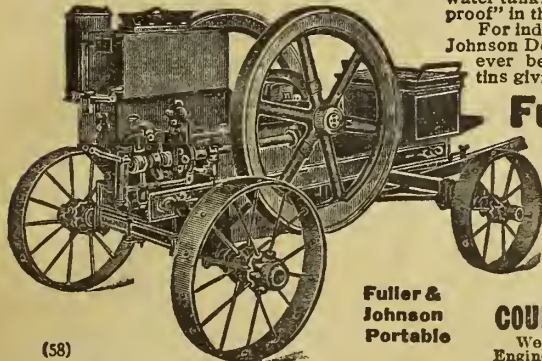
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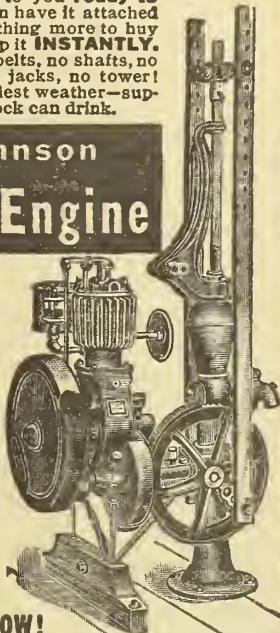
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was as black as our flat lands, as clayey as our hillsides, or as gravelly as some of our prairies. We wondered if the farm boys over there ever went nutting or in swimming, or if they ever had to stick pumpkin seeds or cut burdocks and thistles.

As time wore on and I grew from boyhood into manhood I became more and more eager to leave the home farm and to see the rest of the world. The farm was too small or I was too great—perhaps both. Certainly there were better chances elsewhere, and I felt that I must leave and find some of the better places of the earth. I did leave, did see many places, did find some opportunities, but did not find and have not found any place better, all around, than my father's old grain-belt farm.

While traveling here and there in old England it was my delight to convince myself that the farmer boy has advantages which he does not always realize. His outlook is larger and broader than the outlook of most other young people. Very frequently he is interested in life, life at home and life abroad, life in the country and life in the city. Again and again I have rejoiced in my boyhood privileges in a grain-belt prairie farm home.

One trouble with cement drain pipe is that it is a comparatively new thing and it is difficult, if not impossible, for any but an expert to tell whether the proportions of cement and sand are right. A rich mixture is needed. Too much sand and gravel make an unsatisfactory product for drainage purposes.

WHEAT AND CHAFF

BY E. N. BAILEY

The joke of all creation
Is a darkey on a spree,
When a mountain-dew libation
Seems to set his spirit free.
Did you ever watch a coon shine
As a darkey only can?
When the man is in the moonshine
And the "moonshine" in the man!

There are things past understanding
That defy the law of Moses,
That would seem to be demanding
Rather strenuous diagnosis;
Did you ever watch a "sheeny"
Try to mesmerize a frog?
When the dog is in the weenie?
And the weenie in the dog?

There's one thing more that's serious
And requires attention, too,
And that's the beast imperious
That Roosevelt calls a gnu.
It was a gnu, and new. He knew
A gnu's nose, and knows he knows;
He knew the news, the gnus he knew,
And knew the new gnu knew.

The tighter a lady is laced the less likely is she to notice her own glove when she drops it, if there is any chance for any one else to see it and pick it up for her.

Admissions are sometimes made without intent. A man who had an uncontrollable fear of being buried alive, made arrangements to have his remains cremated and was talking the matter over confidentially with his physician, who poked at his fears and said: "There need be absolutely no danger or cause for fear on your

part that you will not be dead beyond all peradventure, if I attend you at your last sickness."

The two great grand divisions of the earth are the one that the crowns and the speculators own, and the other one that is mortgaged.

Tie papers on a cat's feet and she acts exactly like a school girl the next day after she graduates. With books laid by, and no teacher to think for her, she steps high and awaits developments.

Not Much Chance There.

A preacher was conducting an anti-gambling crusade in a western town, and remarked that the worst phase of gambling was that there was no such thing as a "game of chance." A gambler volunteered to show him a game of chance when viewed strictly technically, and sitting down at a table persuaded the reverend gentleman to buy five dollars' worth of dimes, and taking two lumps of sugar he said: "Now when a fly alights on a lump the other must give him a dime." The Dominie could see nothing but chance in that proposition and said so, but concluded to follow it and see where it would end. The gambler soon had all the dimes. The gambler congratulated him on learning the game so quick-

ly and then said: "You should look at this in a technical manner." The Dominie wanted a further explanation as to what he meant by "technically." "Why," said he, "technically" the 'chance' consists mainly as to whether you have a lump of sugar, or a lump of salt to begin with."

Nothing Anywhere Like It.

A couple of young farmers saw a long-haired dude coming out of a barber shop.

"What do you suppose he went in there for?" asked one of them.

"Oh," responded the other, "he was probably getting that lump on top of his neck fixed."

"Well," was the reply, "if that was it, that barber is certainly an artist. He has succeeded admirably in fixing something that can be worshiped without breaking a commandment. It isn't in the likeness of anything in heaven above, the earth beneath, or the waters under the earth."

Advice to Worried Farmers.

There are a great many kinds of work on a farm that can be done at times better than something else at other times. What is the use to put your attention to something when there is always something else you would rather do? We know a farmer who, when he has something that he absolutely has to do, always does something else and it has made him rich. Too much time is spent attending to this or that thing when the other thing needs to be done worse than one thing. In such a case the proper thing to do is to do neither of them, as the longer they go the less liable you are to ever think of them again. Worry

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| Corn Crops | Cultivation |
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| Art of Plowing | Soil Fertility |
| Boll Weevil | Gasoline Engines |
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Your land is high priced and hired help expensive. There is only one way to make big money—use implements that cut down the cost of your crops. Isn't it true that when you break something on a plow it is nearly always a cast part? Wherever strain comes on a John Deere Plow there you will find steel—tool steel. Take any plow that has had hard work for five years, put it along side of a John Deere which has been in service that long—and see the difference. Then there is no point to cover up poor material. You can see the wear and the defects. The John Deere will be solid, staunch and ready for the hardest job. Then you begin to know that quality counts.

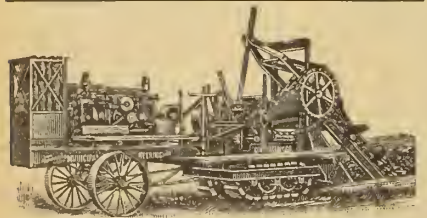
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When writing please mention this paper.

kills lots of farmers, but if these instructions are faithfully followed you will not overwork or lose sleep on account of worry. Unless your brain is very active don't read this more than once without stopping meantime to feed.

A Young Man in Love.

Some people claim that they can tell when a young man is in love by his actions, but it is not so easy in some cases. There is usually a far-away look in the eye that may betoken love under certain circumstances, but the same look frequently betokens worms or a boil. Tickle-oreux also gives the same look, but in that case he usually loses his sangfroid and love and sangfroid are inseparably connected, except in extreme cases of love in the superlative degree.

A case of unrequited love can usually be detected by watching the patient closely during times of reflection. Reflection and meditation are generally accompanied by mild melancholia and a sort of bewildered look like that of a cow that has lost its cud. When a young man begins to reflect on the evanescence of love, tender memories usually draw him to the erstwhile trysting place and then with recollection of the rhapsodies of adoration permeating the innermost recesses of his soul he may give up to despair or he may write poetry. Should he do either one, it is safe to predict that he will be in love again in two weeks. Intermittent love usually yields readily to treatment, but when it becomes chronic nothing will cure it but matrimony or lockjaw.

All this goes to show that love cannot be correctly diagnosed by watching the actions of the victim, for one man will act just the same when he is in love that another will when he is going to commit suicide. Spasmodic love is the most dangerous as well as being the most bewildering. Matrimony is usually an antidote for this type and frequently brings about a permanent cure. This kind of love usually ends in misanthropy and his pallbearers will demand cash in advance for their services.

Love is a great thing, when you haven't got it you hunt around until you find it, and then you give it away or trade it off the first chance that you get.

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Down in Texas they are using a dipping tank to destroy the ticks on their cattle. The farmers of other states should begin to introduce these tanks on their farms. A good, strong solution will kill poli"tics" as quickly as any others and nothing would help out more, when a farmer is in a hurry and a politician comes out in the field and talks to him an hour or two, than to

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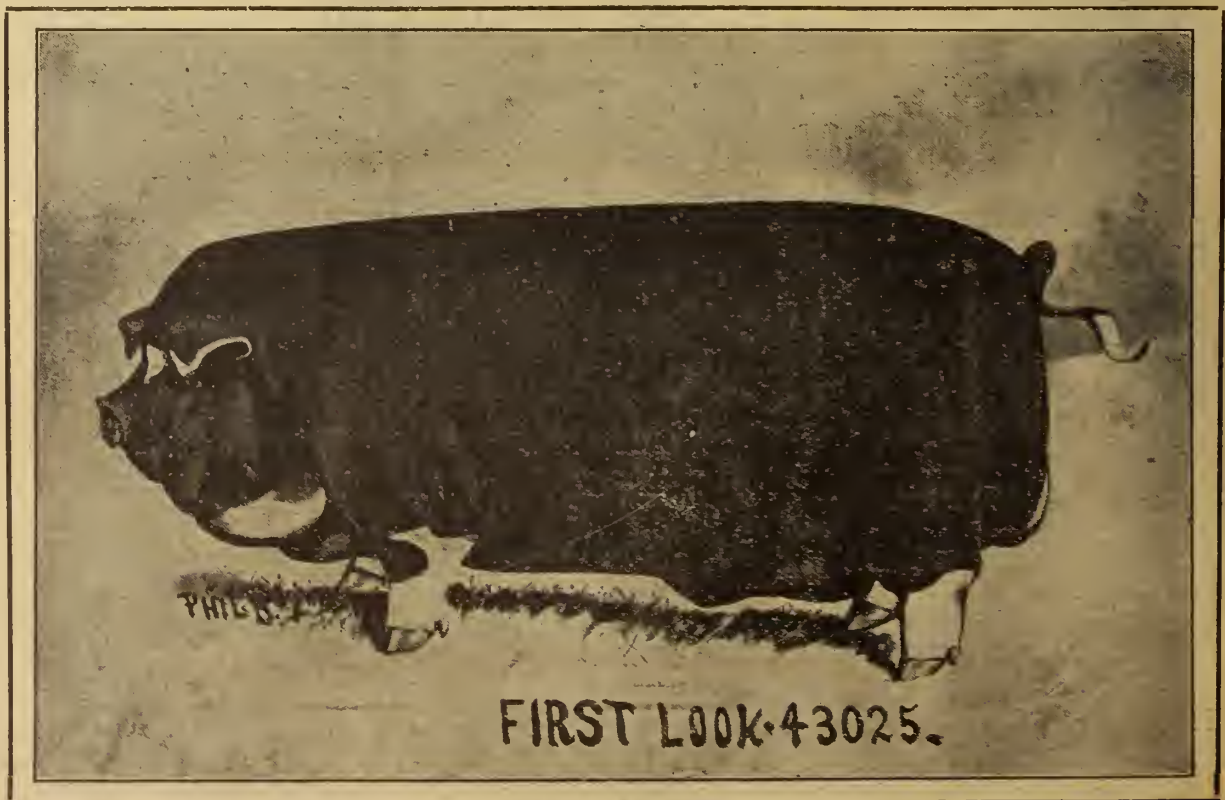
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that any other separator is called upon to do. This separator is made by the American Separator Company and is advertised on page 15 of this paper. The full information with reference to the trial proposition for this dandy little machine may be secured by writing the American Separator Company, Box 1073, Bainbridge, N. Y.



First Look, a son of Grand Look, that has made good both as a show and breeding boar. Several daughters are included in the big Poland sale of Messrs. Thos. F. Walker & Son, of Alexandria, Neb., at Fairbury, Neb., February 9th. See announcement on page 42 and field note on another page.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper, but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

INQUIRIES MUST BE SIGNED.

The receipt of a large number of unsigned communications makes necessary the announcement that no attention will be paid to inquiries for legal advice unless signed by the correct name of the writer. If the writer desires, his name will not be signed to the inquiry when published, but the name and address are absolutely necessary as evidences of good faith. The editor of the Legal Department of The Homestead is only too glad to answer questions propounded by subscribers, but in every case name and address must accompany, otherwise the communication cannot be answered.

LAW QUESTIONS CONSIDERED.

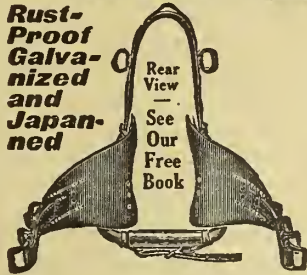
WIDOW—MINOR SCHOOL OFFICER.

An Iowa Subscriber, D and E are husband and wife. They had three children, A, B and C. About a year ago C died leaving a wife and child. He left no property. The other children, A and B, are also married. (1) In case D should die without making a will, will C's widow inherit any of his property? (2) Would C's widow be the guardian of her child's share of D's estate? (3) A paid some of C's debts and A and B together paid part of C's funeral expenses. Can they recover the amounts so paid from C's child if it lives to inherit part of D's estate? (4) A is president of a rural district school board. He has hauled material, helped clean the schoolhouse and will build a school fence

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Read what this authority says: "Without question, the Whipple Humane Horse Collar is pre-eminently superior to any device that has as yet been discovered, whereby all classes of horses can be used with a certainty that sore necks—galled shoulders—collar bruises and shoulder stiffness will be prevented. For years I have, as a practicing veterinarian, as well

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Town..... State.....

and expects to recover compensation from the district. He has already put in a claim for what he has done. B, the secretary of the board, refuses to draw an order for the claim. Can A recover from the district?

Answer.—(1) She will not. (2) C's widow is what is called the natural guardian of her child, but she has no authority or power over the child's property until the district court appoints her guardian. (3) A and B cannot recover what they paid on account of C's debts and his funeral expenses, from C's child's share of D's estate. (4) A cannot recover by law. It is unlawful for a school officer to furnish materials or render services outside of his official duties, and be paid therefor out of school funds. It is declared by the supreme court to be against public policy.

AN ORPHAN'S HOME—WAGES.

A Subscriber, Williamsburg, Iowa.—A is an orphan boy who came here twenty-one years ago from a home in New York City, and was taken, but not legally adopted, by B's parents, who turned him over a year later to B and her husband, where he remained till a month ago. He cared for B's children and did chores and otherwise worked on a large stock farm, and for eleven seasons last past has done a man's work on the farm. In summer he went to school only one term of two months, and in winter about

three months each year. His clothing did not cost B more than \$15 yearly, and he incurred one doctor's bill which B paid—\$90. B misled him about his age, telling him he was four years younger than he really was. One year ago A became dissatisfied with his relations to B and she agreed to give him \$200 for his work for the season. Has A any legal claim against B for his work prior to the last season?

Answer.—Under the circumstances stated, we think that up to the time A was of age,—twenty-one years old, he stood in the relation of a child to B, and that he cannot recover wages for any of that time; but considering that he was deceived about his age by B, he is entitled to what his work was reasonably worth after he was actually twenty-one years old, deducting of course, what he received during that time in the way of board, clothes, etc.

DELIVERY OF INSURANCE POLICY.

A Nebraska Subscriber.—I insured a stallion for one half his value. The agent of the insurance company got the premium and made out the application and sent the same to the company, and it was accepted and the policy was made out. The horse died four days after the premium was paid. Can I recover the insurance?

Answer.—We infer from your statement that the horse died before the in-

\$81.50 Lowest Price On Best Spreader

New F.O.B. Factory Price Ever Made. Complete ALREADY To Hitch To.

Largest Capacity one. You get a guaranteed, largest capacity; lightest draft wagon-box spreader made and a regular complete farm wagon, all in one when you buy the Grinnell.

Get New Catalog and Special Offer Today

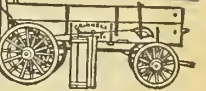
The Grinnell is sold with or without the trucks on 90 days free trial, direct from factory to you. Will save you \$25 to \$90 on your spreader investment. The greatest machine ever invented in the manure spreader line. You want to know more about it. Write for catalog and special offer without fail today. Address

Chas. F. Chase, Pres.

Chase Mfg. Co.,

39 Main Street,

Grinnell, Iowa.



insurance policy was actually delivered to you. If the application was accepted by the company and the policy was made out and signed before the horse died, you can recover the insurance unless there was some express provision in the policy which required it to be delivered before taking effect. Consult a local lawyer and show him the form the company uses in its policies.

STRAW PART OF OROP.

A Subscriber, Creston, Iowa.—B has occupied A's farm as his tenant for several years, and has always had all the straw grown on the place, as A did not need it. A rents to B for two-fifths of the crop. Under these terms is A entitled to any of the straw?

Answer.—Under such an agreement, A is entitled to the same share of the straw as he gets of other products, because straw is a part of the crop.

INSPECTION OF STOCK—VOTER.

A Subscriber, Bouton, Iowa.—(1) Does the law of South Dakota require live stock which is shipped into that state to be inspected? (2) Can a tenant who occupies land in South Dakota lawfully hunt wild game upon it, without a license? (3) How long does a person have to reside in South Dakota before he becomes a citizen of that state?

Answer.—(1) Live stock brought into South Dakota from or through any state or territory against which the governor of South Dakota has issued a proclamation of quarantine, must be inspected upon arrival by the state veterinary surgeon or a deputy. The person in charge of such animals must without delay notify the state veterinary surgeon of their arrival,—and all sheep unloaded from railroad cars must be inspected before leaving the railroad yards. (2) A tenant living on land in South Dakota, is not required to have a license to hunt on the land, but he cannot kill game or birds except in the open season for the same. (3) A male person twenty-one years old and a citizen of the United States or who has declared his intention to be, who has resided



A Great Heider Eveners Invention

Made for 2, 3, 4, 5 or 6 horses. The HEIDER 4-horse Plow Eveners works four horses abreast on gang, sulky or disc plow. Works free, no side draft, all horses pull equal. We make clevises to attach our Eveners to all plows. HEIDER 3-horse Wagon Eveners for wagon, manure spreader, grain drill or any other implement with pole. GO TO YOUR DEALER, if he can't supply you don't accept any other. Write us for catalog and we will tell you where to get them. We also make Wagon Doubletrees, Singletrees, Neck Yokes, etc. Insist on getting HEIDER'S if you want the best in EVENERS

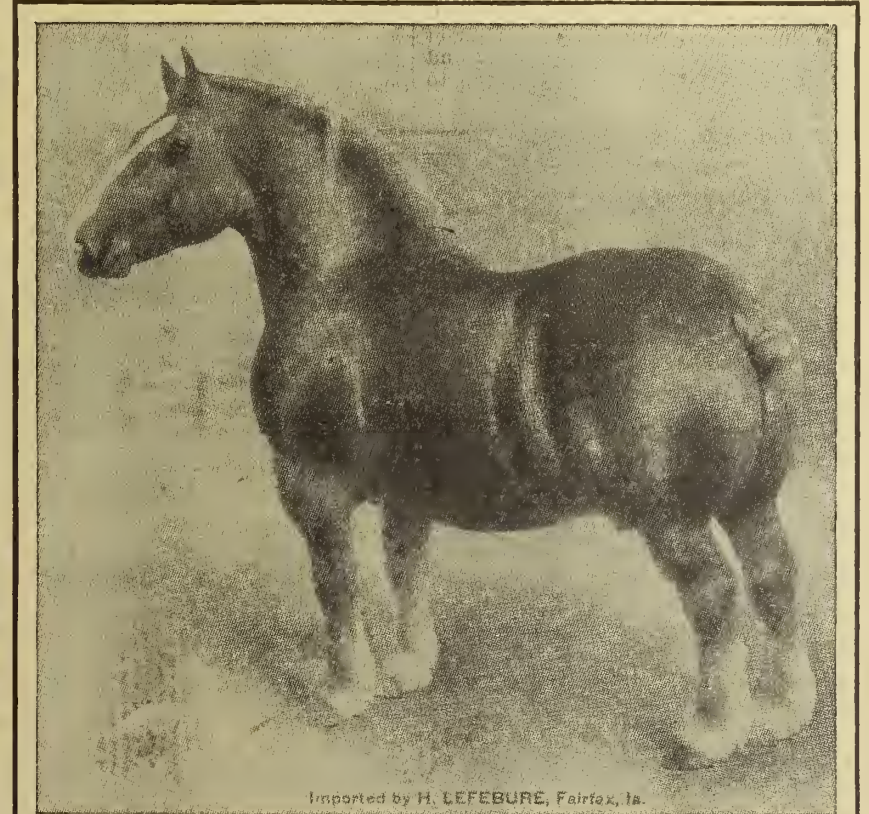
HEIDER MFG. CO. Dept. 16 CARROLL - IOWA ASK YOUR DEALER

WE SHIP ON APPROVAL without a cent deposit, prepay the freight and allow 10 DAYS FREE TRIAL. IT ONLY COSTS one cent to learn our unheard of prices and marvelous offers on highest grade 1910 model bicycles. FACTORY PRICES Do not buy a bicycle or a pair of tires from anyone at any price until you write for our large Art Catalog and learn our wonderful proposition on first sample bicycle going to your town. RIDER AGENTS everywhere are making big money exhibiting and selling our bicycles. We Sell cheaper than any other factory. TIRES, Coaster-Brake rear wheels, lamps, repairs and all sundries at half usual prices. Do Not Wait; write today for our special offer. MEAD CYCLE CO., Dept. C 184. CHICAGO

LEARN ALL ABOUT AUTOMOBILES EARN BIG MONEY and enjoy a most pleasant occupation as competent chauffeur—one that can repair as well as run machines. Splendid Opportunities in this new business. Automobile Livery, Taxicab, Repair Companies being established everywhere. Every man wanting to own an automobile, become a chauffeur, expert repairer, agent or salesman needs our practical course. Write for our interesting free book. KANSAS CITY AUTOMOBILE SCHOOL, (Largest and Best Equipped Automobile School in America) 2119 E. 15th St., Kansas City, Mo.

HARVEY BOLSTER SPRINGS

Soon save their cost. Make every wagon a spring wagon, therefore fruit, vegetables, eggs, etc., bring more money. Ask for special proposition. Harvey Spring Co., 164, 17th St., Racine, Wis. FREE TRIAL TO YOU



Imported by H. LEFEBURE, Fairfax, Ia.

A ROYAL BELGIAN.

The handsome engraving herewith presented is that of a five-year-old Royal Belgian stallion imported and owned by Mr. Henry Lefebure, of Fairfax, Iowa. This is a handsome sorrel weighing 2,200 pounds. He is, however, only one of more than 100 excellent Belgian stallions and mares now in Mr. Lefebure's barns. These have never before been filled with as many high-class horses. It is a horse show every day and buyers are cordially invited to come and see it. It should be remembered that Mr. Lefebure has been a prominent winner at the International Live Stock Show at Chicago, as well as at the St. Louis World's Fair and later state fairs. See page 50 for advertisement.

in the United States one year, and in the state of South Dakota six months, and in county thirty days, and in precinct ten days, is a full citizen of South Dakota, entitled to vote.

PARTITION FENCE ALREADY BUILT.

Messrs. E. O. Haymond & Sons, La Porte City, Iowa.—During the month of March, 1908, we erected between our farm and the farm of a neighbor a partition fence 200 rods long of woven wire twenty-six inches high, with three barbed wires above. The neighbor did not contribute in any way to the expense of this fence, and even neglects to keep in posts on his half of the line. The farm is owned by an estate and said neighbor is the tenant occupying it, and he refuses to do anything towards fixing the fence. Can we recover pay for half the value of the fence and if so how shall we proceed?

Answer.—We think you can recover the value of one half the partition fence. Request the fence viewers to meet and determine the rights and duties of the owners of the adjoining land and yourself. They have power to determine the value of the fence, and to order the owners of adjoining land to pay half of such value within a given time, and to assign half the fence to each party to keep up in future. The fence viewers will know how to proceed in the matter. Their decision will be final unless appealed from.

DAMAGES FOR TRESPASS.

Mr. Otto Ibsen, Orchard, Neb.—I have a cane field of thirty acres. The cane was all cut with a binder and well shocked in the field, the heads of the shocks being tied. I intended to thrash the heads, but Mr. H.'s cattle got in the field twice and were there all night and half the day each time, and raked down the shocks and ate the seeds and did great injury. Mr. H. said he would settle with me for the damage, but he put it off from time to time and now he refuses to settle or arbitrate. I applied to a justice of the peace, but he said I could only recover by taking up the cattle and holding them for the damage. Is there any way in which I can recover damages for my loss?

Answer.—For such injuries as you mention, a person has two remedies in Nebraska, that is, he may choose one of two,—either take up the stock while on the land, and hold it for damages,—or sue the owner of the

stock and recover a money judgment for damages, without taking up the stock. Tell the justice of the peace to look at section 3136, Vol. 2, Cobbe's Annotated Statutes.

HOMESTEAD CLAIM—RESIDENCE.

A Subscriber, Emmetsburg, Iowa.—I am a young man working in a store in Iowa and want to take up a homestead in South Dakota. Can I hold the homestead claim if I continue working in the Iowa store, provided I go to the claim once a month or so, and sleep in my shack on it over night, complying of course in all other respects with the law?

Answer.—We think not. Such a course would not be a compliance with the law. It would be but a make-believe residence,—but a pretense of living on your claim, and the result would likely be, that somebody would come along, and contest your claim, and you would have a more or less expensive trial about it, and in the end lose your claim. The United States government is an unhandy party to fool with.

DOWER IN OHIO.

A Subscriber, Albion, Iowa.—A and B were husband and wife living in Ohio. Seven years ago A sold a farm in Ohio, but his wife did not join with him in the deed. Five years afterwards A died owning another farm. He willed one-third of the sale price of this farm to his wife, dividing the other two-thirds equally among his children. Has his wife a dower right in the farm A sold seven years ago?

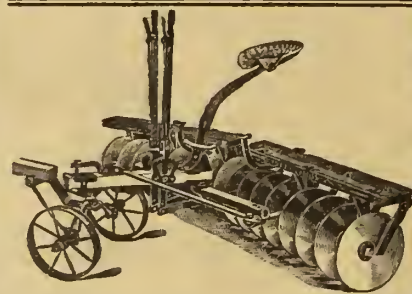
Answer.—The widow has a dower right in the farm sold, unless she has surrendered it, signed it away, or done some other act which bars it. When her husband's will was probated, if she elected to take under the will, that bars her dower, but if she never elected to take the property devised to her by the will, she still retains her right of dower.

ECONOMY IN ROUGH ON RATS.

Time and property saved because everybody knows Rough on Rats is no experiment. One 15c. box is equal in killing power to 3 or 4 dozen of the ready-for-use things. Being tasteless and odorless, when mixed with anything vermin or insects will eat, it completely outwits them, but never fools or disappoints the buyer; equally effective for Roaches, Ants and Bed Bugs. 15c., 25c., 75c., at druggists.

Are You Particular About Your Farm Tools?

If So, It Will Pay You to Provide Sterling Implements for Your Farm



Good tillage requires the best tools. If you have not used **Sterling Machines** you have missed something of the satisfaction of work well done. Sterling Tools satisfy because they do the best work.

We show cuts here of two popular **Sterling Machines**.

Look them over. They stand for all that is best in tillage tools.

We want to put you in touch with Sterling Implements if you are not already using them. Write us and we will send you descriptive matter and tell you where you can get the goods.

STERLING MANUFACTURING CO., STERLING, ILLINOIS.



FARMERS, IT WILL PAY YOU

to use our **FARMER'S FORGE OUTFIT** on your farm in doing blacksmithing and repairing. We have high endorsements for the thousands of Farmer's Forges sold direct to farmers within the past twelve years in every state and Canada. Our Forges have hearths 24x26 inches, 11 1/4 inch blowers, run easy, and have all the first class qualities of high-priced forges.

WE POSITIVELY GUARANTEE our Farmer's Forges to be as large, as durable, do as much work and equal in every way any 100.00 forge on the market, and as represented or money refunded.

SPECIAL WINTER OFFER until March 31, 1910, we offer 1 Farmer's Forge complete \$3.00 or one Farmer's Forge, one anvil and vice combined, and one pair of tongs, all for \$3.40. Ten carloads on hand. Orders shipped promptly. This offer may not appear again. Write to-day. Send stamp for catalogue No. 23 and testimonials.

G. A. S. FORGE WORKS, Saranac, Mich.

"Great Western"
Quality

SOONER OR LATER

"Great Western"
Quality

You are Going to Buy a Spreader and You will Want to Satisfy Yourself

that you get the **QUALITY** you want and that you pay for.

The main frame of a Manure Spreader is the foundation of the machine, just as the gear of a wagon is the wagon's foundation. **Don't allow anyone to fool you with the old story that pine is as good as OAK; you know better.** Did you ever see a wagon gear made of pine? No, sir, you never did;—or, at least, we never did.

Please Look This Picture Over Carefully Because We Want You to Know That

the main sills of the **GREAT WESTERN** are made of **OAK** and measure 2x6 inches.

The cross sills are **OAK**, mortised into side sills, and each cross sill is held in place by two draw bolts.

The two center sills are made of **OAK**, and extend from the rear cross sill to the front cross sill.

This construction alone, being made of **OAK** is more stiff and rigid and more substantial than any other machine in the world.

Then, in addition to the great strength, we use two diagonal **TRUSS STAY RODS**, running from all four corners. These truss rods are made of wrought steel, and you can see it is simply impossible for the **GREAT WESTERN** Frame to twist out of line.

The Great Western Endless Apron is supported (and the load rests) upon three sets of large rollers; one set on each of the side sills and one set in the center. Please notice that these rollers are placed close together so there can be no sag to the apron with a heavy load on it. Where the rollers are small and placed far apart as they are on many machines there is bound to be a weaving or waving undulation of the apron that compresses the manure and makes it bind along the sides, which adds not a little to the draught.

Great Strength Required

Did you ever stop to think what great strength is needed in a spreader (if it is to stand up)? Most manufacturers do not realize what is required by the farmer. If they did, there would be more spreaders built on the lines of **GREAT WESTERN** construction.

Just think of this: The Frame or Gear must carry twice as heavy a load as is ordinarily put on a common wagon.

Strength is required to move the load of manure within itself—and over rough and frozen ground.

Strength is required to elevate the manure, cut it up and discharge it.

The fact is, more strength is required in a manure spreader than in any other piece of machinery ever placed on the farm.

We build the Great Western as we do because, from our own experience, we know that solid, substantial construction is necessary; because we know that flimsy construction and twisted frames always mean breakage and short life for the machine; because we have found that this great strength has stood the test on thousands of farms where cheaply constructed spreaders have gone to pieces in a year or two.

Isn't it common sense to say that unless the frame is made **STRONG AND SUBSTANTIAL** (extra strong), the great strain that is put upon it by the machinery that is attached to it will soon twist it out of shape.

This would mean that the machine would run hard; breakages would occur constantly in spite of all you could

do. You know that the minute any machine commences to twist out of shape it goes to pieces.

The **GREAT WESTERN** Manure Spreader is made for the man who wants the **BEST**.

If you will go to your dealer, he will show you the machine or get you one. He will set it up ready for you to hitch to. You can take it out and try it. You have no freight to pay and not one cent of expense.

On the other hand, if you haven't a first-class dealer in your nearest town who will show you a Great Western Spreader, we want to hear from you right away, and we will make you a liberal proposition.

IF YOU ARE INTERESTED IN THE BEST in the spreader line, we will prove our statements and prove you can't afford to buy anything but the **BEST**. The Great Western generally costs a little bit more to start with, but if you pay a few dollars extra and get **QUALITY** you are absolutely sure of getting \$30 back in durability and satisfaction for every extra dollar you put into the machine.

NOW, THEN, we warrant our machine to have:—50 per cent less breakage, 50 per cent more strength, 50 per cent more wear and durability than any other spreader made.



EVERY STICK OF TIMBER YOU IS OAK

WHATEVER YOU DO, don't let any salesman make you believe that a spreader with a pine frame (or other inferior wood) is as good as one made of **OAK**. You know **OAK** is better. You know it will last longer. You know it is stronger. You know it won't rot out. **WHEN YOU INVESTIGATE** spreaders, take your knife with you—and your rule; jab into the side sills and stakes, and know for yourself whether the frame is **OAK** or not. **IF YOU HAVE MANURE TO SPREAD**, we believe you realize the need of a manure spreader. If so, please write us today to our nearest office for our large free Art Catalog No. 842.

SMITH MANUFACTURING COMPANY

153 E. Harrison Street
Minneapolis, Minn. Omaha, Neb. Kansas City, Mo. Columbus, Ohio Indianapolis, Indiana

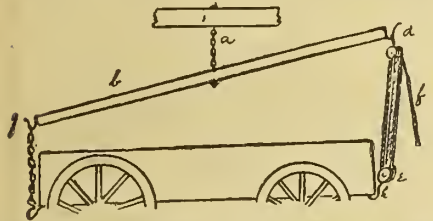
GREAT WESTERN

HINTS-SUGGESTIONS-DEVICES AND CONDENSED LETTERS FROM CORRESPONDENTS

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm or something that is connected with the home.

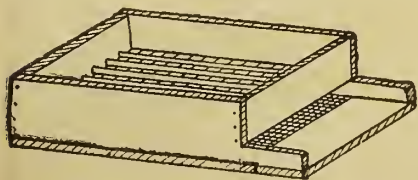
Swinging off a Wagon Box.

One of our subscribers sends the following suggestion for swinging off a wagon box. B is a piece of 4x4 with a series of holes bored in it near the center, to balance the box, A is a chain fastening B to the framework above. D is a small double block, E



is a single block, F is the rope, the hook G at the end of B fastens into a chain at the end of the box. H is a ring stapled to the opposite end of the box, to which the block E is fastened. When ready to raise the box pull on the rope and the box will swing free.

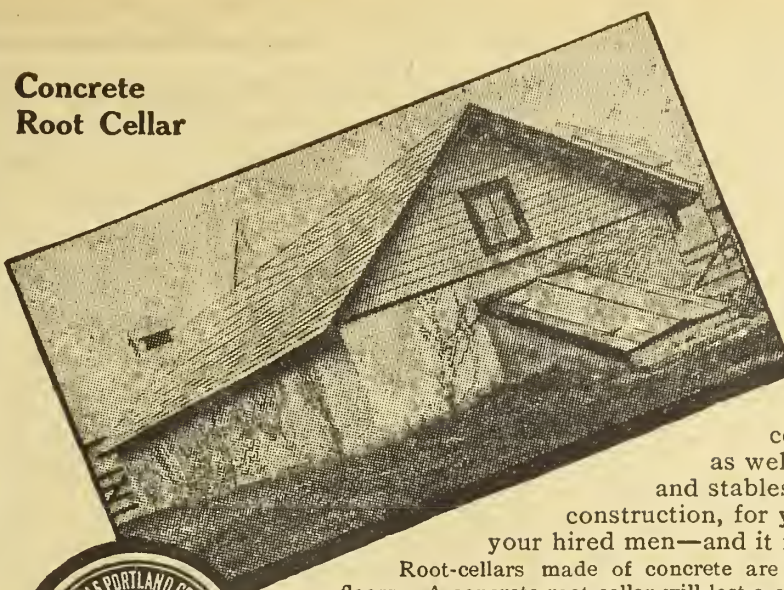
Every farmer should realize the importance of using seed corn that was uniform in size when a mechanical planter is employed; otherwise the large grains will clog the machine, thus resulting in its not planting many hills before the operator can notice same; the very small grains are sure to overplant, or put more kernels in the hill than are desired, thus making work in thinning them out. Where the seed is uniform in size the stand of corn will be the same; even and with the same number of stalks in each hill, which is well worth the slight extra labor in grading the seed. The simple little grader illustrated in this article, may be built in a few hours' time and with it there is no need to shell off the tip of the ear as these small grains are taken out in the grading as well as the large kernels, pieces of cob, etc. To build; a box is made about 12x15 inches square and five inches high. This has a projecting board at one end six inches wide. About one inch from the bottom nail a small cleat all around the inside of box; across the short way of box stretch fine wire by placing lath nails in this cleat and overbinding with the wire, stretching same across the box each time, these wires should be one-half inch apart. Now prepare some small strips of wood three-eighths inch in size and in a triangular form



or three cornered, have these the length of the box and nail them to the top side of cleats so that there will be about five-sixteenths of an inch space between them; this size may be increased if a corn with large kernels is used, but for the average size this permits the small and uniform kernels to pass this screen and retains the larger gains. The second screen is to take out all the small grains and for that purpose drive lath nails in the bottom of box or along the edges of same on all four sides; these should be about one-fourth inch apart, depending on the size of corn used, on these stretch fine wire in each direction so as to make a screen or use a piece of screening cut the size desired; this with the projecting board at one side completes the grader. It is operated in the manner of any screen, the corn is placed in the hopper at the top; and the uniform and small kernels readily pass through to the second screen, where the uniform kernels are retained and the small ones pass through; the uniform kernels coming out over the projecting board into the basket; thus securing seed that is exactly of the same size.

In starting the incubator it is essential that the eggs be tested for fertil-

Concrete Root Cellar



NONE JUST AS GOOD

In building with concrete it is important to use only the best cement—for cement is the basis of concrete. It holds the mass together. ATLAS Portland Cement is made of genuine Portland Cement Rock. It contains no furnace slag. ATLAS is the recognized standard brand of cement. It was bought by the

The ATLAS Portland CEMENT Co.

Daily Production capacity over 50,000 Barrels—the largest in the world.

The Economy of Concrete Buildings

Progressive farmers are using concrete for all small farm structures, as well as for dwelling-houses, barns, silos, and stables. It is the most economical form of construction, for you can do the work yourself or with your hired men—and it never wears out or requires repairing.

Root-cellars made of concrete are perfectly dry—no dripping walls, or wet floors. A concrete root-cellar will last a century without costing a cent for repairs.

A Concrete Book for Every Farmer—FREE

Our book for farmers entitled, "Concrete Construction about the Home and on the Farm," gives directions for building root-cellars, poultry-houses, fence posts, water troughs, and other farm structures. It contains directions for making and handling concrete, also actual specifications and drawings from which you can work. There are 168 pages and over 150 illustrations. This instructive book is free to farmers. Send for it today.

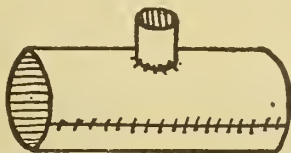
ATLAS Portland Cement

Makes The Best CONCRETE

U. S. Government for the Panama Canal. There are many different brands of Portland Cement, but there is only one brand of ATLAS—the best that can be made and the same for everybody. In buying cement be sure to specify ATLAS by name. If your dealer cannot supply you, write to

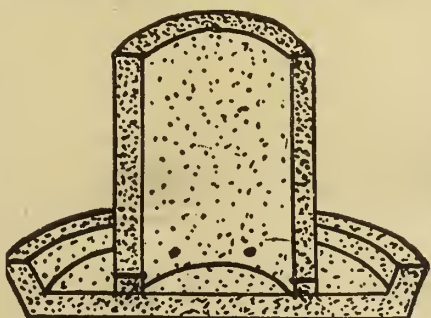
Dept. 111 30 Broad Street New York

ity, which may easily be accomplished with the simple and quickly made tester illustrated herewith. A strip of cardboard is bent into a circle and sewed together so it will set over the chimney or globe on an ordinary lamp; into the side of this cylinder cut a



hole about two inches in diameter and make a second tube to fit same, of cardboard, attach this by sewing onto the larger one and the tester is complete. It is placed over the lamp and the intensity of the light shows through the smaller cylinder on the side; by placing the egg up against same it can be tested in a moment's time, much time being saved by having both hands free to handle the eggs.

While many similar fountains have been made of tin cans, that soon rust and are useless, yet this same principle applied to a concrete fountain will produce an everlasting article and one that will give excellent satisfaction. A large flat dish is used to mold the bottom, into this lay a one-inch course of concrete and have it come up on the sides, as shown in sectional illustration, about two inches high. In the center set a short section of stove pipe and inside this place a smaller piece; that has a less diameter so that the wall of the tank will have a thickness of at least three-quarters



of an inch all around same, for the center core an old tomato can or even a round piece of wood of the right size is excellent. The holes for the water are made by inserting a large spike about one-half inch from the bottom, through the outer core or section of stove pipe and so it will mold a

small hole through the concrete; four or six of these should be made, but placed below the top edge of outside dish. The concrete is placed between the stove pipe and the core thus molding the wall and bonding with the concrete bottom so the fountain is all in one piece. When dry the forms may be easily removed and you have an article that will give good satisfaction, keeping the water clean with just enough in the lower basin for the poultry; something they cannot tip over and spill, the supply for the day being placed in at the top of tank

BARDWELL & BARNARD'S SALE.

The Duroc Jersey bred sow sale held at Louisville, Ky., by Messrs. Bardwell & Barnard, of McHenry, Ky., on January 20th, was very successful. Mr. Thos. Johnson, of Columbus, Ohio, secured the top sow in the sale at \$200. It was Proud Maid by Proud Advance bred to Model Top. She is a great sow and will be a valuable addition to the Johnson herd. Messrs. Sheely & Clatterbuck, of New Bloomfield, Mo., secured a great Prince of Coles, sow at \$140. Messrs. Gillock & Son, of Nashville, Tenn., secured the under-year show sow, Phillis, by Macon Chief, at the bargain price of \$150. Sows bred to the three great boars at the head of this herd were in strong demand. Breeders were present from six states. Colonels Igleheart and Kasehel again demonstrated their ability to get good values for a good offering. Both worked hard for the success of the sale. Below we give list of sales:

Lot.	Price.
1. Harris & Daniels, Morganfield, Ky.	\$127.50
2. J. W. Crawford, Millwood, Ky.	47.00
3. S. H. Stansbury & Son, Newport, Tenn.	52.50
4. Geo. W. Bolds, Bryant, Ind.	50.00
5. G. W. McKnight, Howell, Ky.	46.00
6. P. B. Pendleton, Glenbrook, Ky.	40.00
7. J. C. McNeil, Taylorville, Ind.	40.00
8. C. A. Weber, Paris, Ky.	36.00
9. E. C. Stemen & Son, Middlepoint, Ohio	41.00
10. W. H. Collier, Anchorage, Ky.	65.00
11. H. J. Fry, Jeffersonville, Ky.	30.00
12. Parker Bros., Jeffersonville, Ky.	30.00
13. W. F. Taggart, Princeton, Ky.	30.00
14. J. A. McNeil	37.00
15. C. A. Weber	40.00
16. J. W. Crawford	79.00
17. Thos. Johnson, Columbus, Ohio	200.00
18. J. W. Sweeney, Rockfield, Ky.	127.50
19. Hughes Spurr, Lexington, Ky.	55.00
20. C. A. Weber	45.00
21. Thos. Johnson	53.00
22. Sheely & Clatterbuck, New Bloomfield, Ky.	140.00
24. Gillock & Son, Nashville, Tenn.	150.00
26. C. H. Drury, Irvington, Ky.	60.00
27. Allendale Stock Farm, Shelbyville, Ky.	47.00
28. C. A. Weber	34.00
29. H. J. Fry	59.00
30. S. S. Johnson, Shelbyville, Ky.	35.00
31. Same	55.00
34. C. A. Weber	41.00
35. R. L. Simmons, Rochester, Ky.	40.00
37. J. W. Sweeney	40.00
38. H. J. Fry	35.00
39. E. S. Maze, Jr., Springfield, Ky.	46.00
40. C. R. Ross, Madisonville, Ky.	35.00
41. E. C. Schuler	35.00
42. Same	36.00

43. Same	36.00
45. J. O. Kerfoot, Elizabethtown, Ky.	75.00
SUMMARY.	
39 head	\$2,246; average...\$57.59

THE SIOUX CITY RED POLLED SALE.

At the Arp-Converse-Clouss sale of Red Polled cattle, held at Sioux City, Iowa, January 19th, thirty-eight head were disposed of at an average of \$71.30. Twenty-three females were sold at an average of \$62.50 each and fifteen bulls averaged \$78. The sale was fairly well attended by breeders from Nebraska, South Dakota and Iowa, but the demand seemed to be poor.

GRANT HOCKETT DUROC SALE.

There was quite a fair crowd of breeders and farmers at the G. W. Hockett sale, at Manning, Iowa, on January 18th, and forty-one head averaged \$41.86. S. E.'s Advance, a daughter of Proud Advance out of S. E.'s Model IX., sold for \$86, and she was bought by Mr. Hockett. This sow was owned jointly by Messrs. Grant Hockett and J. B. Ashby and was sold to settle the partnership. No high prices were paid, but Mr. Hockett was well pleased with the outcome. Below we list those selling for \$25 and above:

Lot.	Price.
1. Ohio Lady, Edmonds, Shade & Co., Kingsley, Iowa	\$81.00
2. Ohio Lady II., W. R. Hainline & Sons, Blandinsville, Ill.	78.00
3. H. A.'s Queen, Sexsmith & Strong, Greenfield, Iowa	65.00
4. Crimson Nora, A. Lutz & Son, Frieson, Iowa	60.00
5. Buckeye Lucy II., J. C. Burns & Son, Denison, Iowa	43.00
6. Buckeye Lucy III., August Hager, Avoca, Iowa	60.00
7. Buckeye Lucy IV., J. E. Wehr, Portsmouth, Iowa	49.00
8. Beauty Advance, John Goddard, Harlan, Iowa	40.00
9. Beauty Advance II., F. R. McLaughlin, Manning, Iowa	43.00
10. Beauty Advance III., Will Southwell, Irwin, Iowa	44.00
11. S. E.'s Advance, Grant Hockett, Manning, Iowa	86.00
12. Miss Bredwell XXV., H. L. Cantine, Quincy, Iowa	45.00
13. T. A. Hickey, Manilla, Iowa	46.00
14. F. R. McLaughlin	39.00
15. Winifred Newell, Manning, Iowa	39.00
16. Geo. Knott, Manilla, Iowa	40.00
17. Thos. G. Gowley, Irwin, Iowa	40.00
18. Will Southwell	36.00
19. H. L. Cantine	50.00
20. J. C. Burns & Son	43.00
21. Will Fisher, Manning, Iowa	35.00
22. J. C. Burns & Son	35.00
23. Guy Pangburn, Bagley, Iowa	39.00
24. W. E. Southwell	41.00
25. T. M. Neal, Bristow, Iowa	39.00
26. C. A. Rasmussen, Harlan, Iowa	37.00
27. T. M. Neal	35.00
28. Will Fisher	30.00
29. M. L. Tate, Manning, Iowa	34.00
30. Henry Hermeyer, Templeton, Iowa	30.00
31. M. Kraft, Newhall, Iowa	30.00
32. Henry Hermeyer	31.00
33. Same	25.00
35. Peter Thine, Templeton, Iowa	31.00
35½. Peter Thine	31.00
36. T. M. Neal	36.00
37. Same	32.00
38. H. A. Edwards, Irwin, Iowa	35.00
39. Henry Hermeyer	27.50
40. Same	33.00



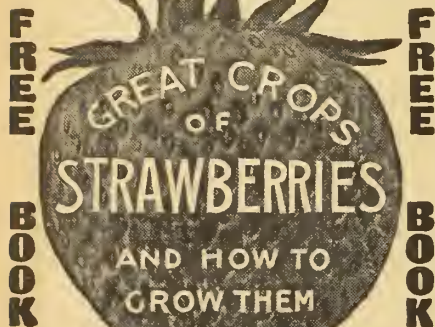
MAULE'S SEEDS

ONCE GROWN ALWAYS GROWN

Is the reason why for many years past I have done such an enormous seed business, 67,801 customers in Pennsylvania alone, with almost half a million the world over. My New Seed Book for 1910 is a wonder; contains everything in seeds, bulbs and plants worth growing. Weighs 12 ounces, contains over 600 illustrations, 192 pages. Any gardener sending his name on a postal card can have it for the asking. Address

WM. HENRY MAULE
1752 Filbert St. Philadelphia, Pa.

Send 5 cents (stamps), and if you mention this paper I will enclose in the catalogue a packet of the above choice pansy seed.



FREE BOOK

Your Name and Address That's All

GOVERNMENT reports show that strawberries produce more dollars per acre and give quicker returns than any other crop. Our 1910 Strawberry Text Book teaches the Kellogg method of growing larger crops of better berries than can be grown in any other way. It explains how to fertilize and prepare the soil, shows how to prune, set and mate the plants. Every detail of the work is made perfectly clear, including cultivation, spraying, mulching, picking, packing and marketing. Growers who have this book say it is worth its weight in gold. You may have one FREE.

R. M. KELLOGG COMPANY, Box 770 Three Rivers, Mich.

NEW SEED OATS

Big Money in Oats

New Seed Oats. Big money in oats if you raise the right kind. Here's your chance to get them. Imported Canadian Seed Oats for sale; extra fine. Send for free sample. It speaks for itself. This same oat we sold last year in the United States and proved their merit and our statement that the farmers need a change of seed in this country. We make a specialty of growing extra fine seed oats on our big Canadian farm; new, clean land; no weeds. Have best known varieties. Regenerated Swedish Select went 116 bushels to acre this year; Early New Market, Canada's favorite, 110 bushels to acre. Both of these are big, early yielders. I believe it will pay you to get a change of seed. Try some of these oats. The average oats are inbred and run out. Canadian Government Grain Inspector graded this grain No. 1 White. Have stiff straw, white berry, thin husk, enormous yield. It is as easy to put in and harvest a big crop as a small one. The reason your oat crop is not bigger is because your seed is run out. This has been proven. Look at this cut. Taken from photograph of two stalks from Galloway Brothers' field, over 200 kernels to the stalk. Write early for free sample, or send ten cents for packet. Will also send you free booklet entitled "Big Money in Oats and How to Grow Them," by Galloway Bros. and Prof. M. L. Bowman, former professor of farm crops Iowa Agricultural College. Information in this book is priceless. Get it free.

GALLOWAY BROS., 102 Galloway St., Waterloo, Ia.

OLDS' Wisconsin Clover

Wisconsin's Clover Seed crop last fall was a good one, both in quantity and quality. Wisconsin Clover was awarded First Premium at the recent Omaha Corn Show in competition with the whole world.

Wisconsin Timothy also secured first place at Omaha. We have large stocks of both clover and timothy, choice seed, free from noxious weeds. Wisconsin is noted for its pure seed.

Free Sample Collection
Clover, Timothy, Alsike, Alfalfa, Swedish Select and Reg. Swed. Sel. Oats, Oederbrucker Barley, Darnum Wheat, etc.

88 page Catalogue Free
L. L. OLDS SEED CO., Drawer 6, Madison, Wis.

Pure Kherson Oats

GUARANTEED. Best by test. Treated for smut. Does not lodge or rust. \$1 per bushel, single bushel lots; 55 cents, 10-bushel lots, or over. **BAGS FREE.** Aye Bros., Second St., Blair, Neb.

HORTICULTURAL TOPICS

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

HORSE BARN LITTER.

A series of questions upon the use of horse manure comes to us from a subscriber. Is it the right thing for vegetables and small fruits? Is it suitable for grasslands? Should it be used fresh, or only after the rotting process? Those who have been familiar with the use of manure all their lives scarcely realize how important these questions are to the amateur—the beginner in farm life.

For some uses horse manure may best be hauled fresh from barn to field, and for other uses it is best to let it rot first. For top dressing meadow lands use it as fast as it is produced at the barn. The modern manure spreader, one of the most useful of farm machines, distributes it evenly, and if this is done in winter or early spring, the rougher portion will be so beaten down by the rains that it will not be troublesome in harvesting. Also for land which is to be planted to corn, the manure is to be used fresh, spread evenly and plowed under.

As a mulch for old strawberry beds, and for raspberries and grapes and blackberries, use it as it comes from the barn. But upon lands where small plants, requiring careful culture, are to be grown, this dressing is not fit to use in its crude state. For the vegetable garden and flower garden, for potatoes, and for new berry beds, the manure must, for best results, be in a condition to mix readily with the soil. This is accomplished by rotting it for six months before use. Pile in broad, flat-topped heaps and fork it over once or twice during the summer. Do not let it burn, but avoid this by the use of plenty of water. There are constantly great losses by the careless treatment of manure, losses which are none the less real, even if they are not fully realized.

The Cultivation of Trees.

To the Editor of The Homestead:

In caring for an orchard or grove of fruit trees, shade trees, or catalpas, eucalyptus and black locust for fence posts, it is a question whether or not cultivation is not better than deep cultivation with a plow. Very young trees may be given a shallow plowing once a year with a light, shovel plow, and harrowed immediately afterwards, but by the time the trees are five or six years old the only implement used in the orchard or grove should be a light one-horse harrow, which can be swung to one side in passing trees, so as not to rake them. The traces should be wrapped with old cloth sacks, to keep them from rubbing the bark off the trees.

When I was a boy, before farmers had become as intelligent as they are in this day, and when farming methods were not so improved I well remember, in plowing our orchards with a turn plow after the trees were grown, how the plow tore up the roots of the trees seven and eight feet out in the middles. It is still fresh in my mind how I used to cringe and shudder as I felt the roots strike the plow and break, yet we did not try to think out a better way to cultivate them. It would have been far better had we given them no cultivation at all, rather than this deep plowing, and indeed, there are quite a number of horticulturists who believe that fruit trees on good, rich, loamy soil should not be cultivated, but planted in sod land and allowed to take care of themselves. They believe the trees will be healthier and longer lived, and the fruit better flavored if given no cultivation, but a little cultivation with a harrow two or three times every spring and summer will do the trees no harm, but rather good, especially if in a section where the summers are long and dry, for this helps to keep down weeds, and the harrowing just after rains will be a very great benefit, for it will form a dust mulch for keeping in the moisture.

It should be remembered that dust is a better mulch than leaves or straw, for the latter have a tendency to cause the roots to grow too near the surface

You will be satisfied with the products of

Burpee's "Seeds that Grow"

Shall we mail you our New Complete Catalog?
W. ATLEE BURPEE & CO., Burpee Building, Philadelphia.

Money in Early Tomatoes

One of my customers sold \$102.35 worth of big, red tomatoes from 100 plants in his back yard. Another from 14 plants in her flower garden, sold 312 lbs. during July and August for \$16.70. It's all in the knowing how and in using the right seed. They used my new tomato—

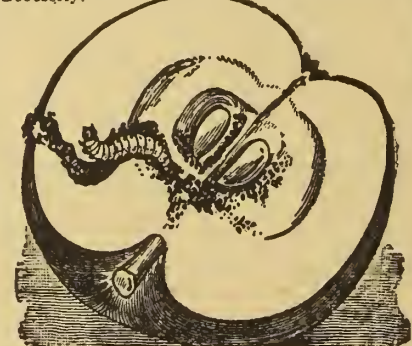
Field's Early June

Earlier than Earliana, as handsome as Stone, as solid as Ponderosa, and a greater yielder than any of them. The greatest new tomato in 25 years. Small pkt., 20c; 3 for 50c; 1/4 oz., \$1. (This for specially selected seed, saved early.) My Garden Manual and Seed Catalog will give lots of pointers and good advice about gardening. It's well worth reading. Get it and see.

Henry Field, Pres.
HENRY FIELD SEED CO.
Box 25 Shenandoah, Ia.

SPRAYING FRUIT TREES.

The question of spraying fruit trees to prevent the depredations of insect pests and fungous diseases is no longer an experiment, but a necessity.



Our readers will do well to write Wm. Stahl Sprayer Co., Box 103-B, Quincy, Ill., and get their catalogue describing twenty-one styles of Spraying Outfits and full treatise on spraying the different fruit and vegetable crops, which contains much valuable information and may be had free.

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BIG SEED BOOK FREE

BEST NEW CROP GROWN SEEDS IN THE WORLD AT FARMER PRICES. In addition we give a whole lot of extra seeds with every order. OUR BIG ILLUSTRATED CATALOGUE OF FARM AND GARDEN SEEDS IS NOW READY. It is FREE to you. A postal card will bring it to your door. Write for it today; also send the address of your neighbors who buy seeds. Address,

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SHENANDOAH, IOWA

YELLOW ROSE

THE early corn. Official record, matured in 112 days. Yield, 94 bushels. Test, 62 pounds shelled. Deep grain; small cob. We have also Gold Mine, Silver Mine, Leaming, Yellow Dent, Wisconsin White and many others. Our corn sound. Tests 95+. Prices right. We have every kind of seeds. Illustrated seed book FREE. Write today.

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IOWA SEEDS FOR IOWA FARMERS

"PURITY BRAND" CLOVER is free from fowl weeds. It is plump 1909 seed, cleaned and tested. You can't buy better. Prices low. Write today.

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CLOVER

Buy before advance. Write today for special low prices and free samples of our Pure New Crop Re-cleaned, Tested Clover Seed. Have Timothy and all grass seed. It is to your interest to get our prices and samples at once. 1910 catalogue free.

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Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped subject to your own test. Send for free catalog.

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Strawberry Plants THE best varieties Write for catalog. W. W. Thomas, THE STRAWBERRY PLANT MAN, ANNA, ILL. Rhubarb and Asparagus roots

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Bulbs, Vines, Shrubs, etc. Hundreds of car lots of FRUIT and ORNAMENTAL TREES. 1200 acres, 50 in hardy Roses, none better grown. 44 greenhouses of Palms, Ferns, Ficus, Geraniums and other things too numerous to mention. Seeds, Plants, Bulbs, Roses, Small Trees, etc., by mail postpaid. Safe arrival and satisfaction guaranteed. Immense stock of SUPERB CANNAS, the queen of bedding plants. 50 choice collections cheap in Seeds, Plants, Roses, etc.. Elegant 168-page Catalogue FREE. Send for it today and see what values we give for your money. Direct deal will insure you the best at first cost. 56 years.

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Box 257, PAINESVILLE, OHIO

New Ruby Nugget Tomato

A grand novelty which originated on our place and is now offered for the first time. While not large, still it is a handsome fruit, of delicious flavor and wonderfully productive—over 700 fruits have been grown on one plant. A cash prize of \$10.00 will be paid to the person growing the largest number of Ruby Nugget Tomatoes on a single plant this year. Price is 35 cents per packet of 100 seeds, but to induce you to give our Choice Iowa Seeds a trial this year, we will send you a trial packet of about 25 seeds without charge, together with a copy of our large illustrated seed and plant catalog. If you have had our catalog this year, please say so. Mention this paper.

IOWA SEED CO., Dept. D1, DES MOINES, IOWA.

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BEST IN THE WORLD

PRICES BELOW ALL OTHERS

I give a lot of new sorts for trial with every order I fill. A Grand Big Catalog FREE illustrated with over 700 engravings of vegetables and flowers. Send yours and your neighbors' addresses.

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Fruit, Ornamental and Evergreen trees; Shrubs, Roses, Vines

Everything in the Nursery Line. Beautifully Illustrated Catalogue and Price List Sent FREE

Special: 45 Concord Grapes \$1. Nine Cherry trees \$1.

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Apple 6c, Peach 5c, Plum 12c, Cherry 15c. Best quality, good bearers, grafted stock, not seedlings. Concord Seedlings \$2.50 per 100. Forest Tree Seedlings \$1.00 per 1,000 up. We pay the freight.

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CARL BONDREGER, Pres.
Complete line of Vegetable, Flower and Farm Seeds, our large illustrated catalogue free. Also Free Sample packet of "New Concord" Tomato, the best of all tomatoes. German Nurseries Box 114, Beatrice, Neb.

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Garden and Field Seeds

WE have the grandest lot of pure-bred seeds ever grown. Also Poland Chinas, Barred Rock cockerels and Scotch Collie dogs. Send now for 1910 catalog; it's full of sensible facts; it's free.

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THE CORN THAT WILL GROW. THE CORN THAT GETS RIPE. THE CORN THAT YIELDS BIG.

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New Crop Iowa Grown Re-cleaned TESTED and inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc. at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free.

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This Catalog Free--Send For It

Every Farmer knows that a change of seed is often of more importance than the rotation of crops. The choice of Seed is also of great importance. Big yields cannot be secured by planting poor seed. The Best is the Cheapest. Our "Seeds of Quality" are absolutely fresh and pure; possess the highest qualities of germination and are especially adapted to the soil and climate of the Northwest. They are thoroughly tested. Our 1910 catalog profusely illustrated will be of great value to you. It is free. Send for it.

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Minnesota raised more Corn per acre last year than Iowa, the famous Corn & Hog State. Why? Because Minn. Corn is impregnated with vigor, vitality and productiveness of our cold northern climate and stands more hardships than other corn; furthermore thousands of bus. of our famous Faribault grown Seed Corn are planted here every year, which helped to score such high average. Such varieties as Golden Jewel, Silver Jewel, Rice Co. Mammoth, etc. we have bred up for perfectness of type, early maturity and freedom from barrenness and are wonderful yielders. Produce good sized ears and yield from 85 to 125 bus. per acre. No matter where you are located plant our Faribault grown Corn and produce a big crop. We grow also the earliest kinds for the extreme North, the N. D. Agr. College Golden Dent, 60 day Flint, etc.

On our Faribault Seed Farms we grow also the best kinds of Seed Oats, Wheat, Barley, etc. from pedigreed Seed Stock.

10 samples of the best kinds of Seed Corn & Seed Grain for... 10c. Nursery stock at wholesale prices. Write for large illustrated seed book.

Farmer Seed & Nursery Co.,
Successors to FARMER SEED CO.,
336 8th Avenue,
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Minnesota Grown CLOVER SEED

WHEN we say seed is "Minnesota Grown" we mean just what the words imply. Such seed, having been produced from plants which have endured the cold of winter and alternate freezing and thawing of spring and fall, is hardy and vigorous. By planting this seed, clovers may be established in northern sections where until recently, it was not thought possible for them to survive. Another important point is that clover grown from Minnesota Grown Seed in sections farther south is more productive, of greater vitality, and of better quality than from seed produced in any other section. Order your clover seed at once. It usually advances during the season and the demand may exhaust our supply.

26th ANNUAL CATALOGUE

Considered the most informing and complete as well as the handsomest seed catalogue published in America. Every one of the 140 pages is filled with information valuable to the seed planter. No farm or garden is so large or so small that this book will not assist to greater profits. It is expensive and we cannot distribute them indiscriminately, but we send it free to those who wish to buy seeds.

Northrup, King & Co., Seedsmen,
360 Bridge St. Minneapolis, Minn. Trade Mark



SEED OATS

I HAVE choice, re-cleaned seed oats for sale—Champion, Kibben and Swedish Select. For prices write G. GREGORY, Raiston, Iowa. C. & N. W., main line.

of the ground. In case there is danger of raking the stems of the trees when harrowing near them, let your harrow swing a foot or so away from the root as you pass, and have some one go along behind and rake around the trees with a light, sharp-toothed hand rake. This can be done almost fast enough to keep up with the horse and harrow, and it will be cheaper in the long run than to be continually rubbing the bark off your fine young trees. While it is important not to skin up the stems of the trees, it is also important that the dust mulch extend clear to the stem of each tree, for it is more beneficial here than two or three feet away.

For the cultivation of catalpa groves in the prairie regions of the West, the harrow is especially adapted, and no other implement should be used after the trees are six or seven years old, unless they have been planted extra deep in friable soil, and even then the harrow is best, for it can be made heavy enough, and with teeth sharp enough to give all the cultivation necessary, after the trees get a good start on rich, loose soil, on perfectly level ground where the water soaks in before too much of it runs off.

The harrowing and shallow plowing is the most useful where the ground is clayey and in dry sections where it is necessary to stir the dust to form a mulch immediately after rains, especially in the late spring, just before the summer drouth is expected to begin. If your land is free of weeds there will not be much necessity for continuing the cultivation after the trees are eight years old, if catalpas, and by dispensing with the cultivation they may be planted closer together, where the soil is rich. The proper cultivation of a catalpa grove is more important than that of fruit trees, for if started off well on good soil and induced to form a good root system they will yield good returns for a hundred years, perhaps, for they may be cut down for fence posts every fourteen or fifteen years, when the stumps will send up fine, healthy sprouts to take their place, and continue to do so, after the crop of posts are cut every fifteen years, for an indefinite period. This also applies to any fence post tree which sprouts well from the stump.

In case any tree roots are torn up, broken or split by the harrow the end next to the tree should be cut smooth, pushed back into the ground and covered deeper, if possible, than it was before, especially if the trees are young.

The two most important considerations in the cultivation of fence post trees in dry, prairie regions, is to stir up the dust immediately after every rain, and to keep the surface of the ground around the trees as level as possible, or perhaps with a slight depression around each tree, in order to give the water a chance to soak in before it runs off. After the posts are harvested, every fourteen or fifteen years, and when the second growth of shoots is young, the ground should, of course, be harrowed again for five or six years, when if it is free of weeds, and time presses, the cultivation may be discontinued again until another crop of posts has been harvested, and so on indefinitely. I. H. Motes.

Ask your neighbor to subscribe for The Homestead.

Seed Corn

THAT will grow; that will yield; that will grade and take premiums. Have the best seed corn that grows. All leading varieties Northern grown; fire dried. More and better for your money. Freight prepaid; circulars free. J. O. Winship, Putnam, Ill.

SEED CORN.

FOR corn that will mature, plant my northern Ill. grown Reid's Yellow Dent, and Griffith's Early Yellow Dent. Sold on approval. Satisfaction Guaranteed. Write for circular. W. G. Griffith, R. 2, McNabb, Putnam Co., Ill.

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250 Plants, \$1. your choice; Sen. Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. The Wildhagen Strawberry Beds, Waterloo, Ia.

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Timothy, Alsike, and other grass and farm seeds. Fancy new crop re-cleaned. Ask for prices. Catalog of all kinds of seeds free. Address GUTHRIE-LORENZ CO., 431 7th Street, DES MOINES, IOWA.

When writing please mention this paper. tion this paper.

Name This Corn and Get \$500. In Gold—FREE

We have been selling you farmers reliable garden and farm seed for 35 years. Now we want you to sell us something—a name for our "Nameless" Seed Corn. And we are willing to pay you liberally for that name.

Let's everybody get together and name this new seed corn. No one can lose a penny and somebody will get \$500 in Gold FREE. It's a valuable offer, the judges are fair and square men—and this wonderful corn certainly deserves a smashing good name. Do not hold back just because your favorite name is not "high-sounding." If it suggests the fine quality of the corn, it is worth sending in. Your opinion is wanted.

Please remember that "Nameless" Corn is not for sale now at any price. There is but a small amount in existence. The best anybody can do this season is to procure a sample packet. You get it by sending in your own name and address with 2 two-cent stamps. You will also receive a Seed Coupon worth 5c in trade on a 25c purchase and Salzer's big 1910 Seed Book free. Write NOW—to-day—while we still have samples of "Nameless" Corn left.

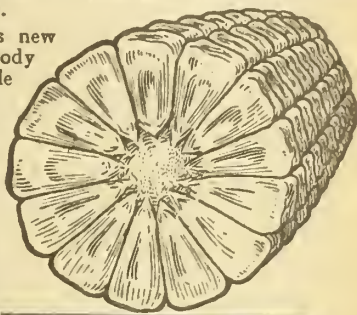
SALZER'S Big Seed Book Ready!

Bigger, better, more interesting than ever! Salzer's 1910 Seed Book is now going out at the rate of 30,000 copies a day. Some want Seed Corn—other farmers, Oats; others, Clover—many want garden seed, etc. All of them prefer Salzer's Seed, knowing they will reap a rich harvest. You yourself ought to plant Salzer's reliable seeds this spring and you ought to have Salzer's Seed Book on your reading table right now. Plan to get big crops this year. Plant Salzer's Seeds, cultivate them and note the paying result in full crops, granaries, etc. Let Salzer help you—let him start you right and keep you going right. He has been advising farmers for 35 years. His judgment is keen, his seed reliable. Get your copy of Salzer's Grand Seed, Plant and Tool Catalogue now and begin thinking about planting. Spring will be here before we know it. Seed Book goes free. Send while you have our address before you. (Enclose two 2c stamps to enter Corn-naming contest.)

JOHN A. SALZER SEED CO.

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Largest Growers of Clovers, Oats, Corn, Potatoes, Farm and Vegetable Seeds in the World. 100 Acre Fine Clover Lands Free for Biggest Oat Yield in 1910! Catalog tells.



New Vegetable Peaches

A genuine wonder. Who would not grow them? Who would not eat them? Perfectly delicious. Nothing like them under the sun. Grows from the seed in 80 days. Size of an orange. Of easiest culture—marvelous yielders. Success everywhere. Only 10 cents per packet with full directions; 3 packets for 25c. I give a nice present (worth 20 cents) with every order. Illustrated catalog, premium coupon accompanies the seeds. Don't delay. Address,

A. T. COOK, Seedsman, Hyde Park, N. Y.



12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruiters, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS of HARDY "BLIZZARD BELT" fruits by next mail. Address

THE GARDNER NURSERY COMPANY, Box 202, Osgo, Iowa.

Tested Seed Corn Guaranteed To Test 94 per cent or Better

I sell it subject to your approval, and ship it ear or shelled. Price \$2.50 to \$3.00 per bu. All the leading varieties, early, medium, and late. Specimen grains for testing, free for the asking. Write for them and see for yourself.

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SEED CORN 153 BU. ACRE

Diamond Joe's Big White—A strictly new variety. None like it. It is the Earliest and Best Big White Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from thoroughbred inherited stock; every stalk bears one or more good ears, because scientifically handled, thoroughly dried and properly cured and had the most rigid examination. Big Seed Catalog FREE. It tells about all best farm, grass, garden and flower seeds grown. Write for it today.

Address, RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

PURE-BRED, TESTED SEEDS

EVERY lot of seed that we put out is subjected to a vigorous germination test. Write for our catalog, explaining our Breeding and Testing Systems and WHY OUR SEEDS WILL GROW. Ames experts select and test our seeds. THE SUMMERS SEED HOUSE, Malvern, Iowa.

FREE We Will Send Upon Application to Every Farmer FREE
PROF. THOMAS SHAW'S Directions for Planting
Garden, Flower and Field Seeds in our Catalogue of Home Grown Seed
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DAY BY DAY

AGRICOLA

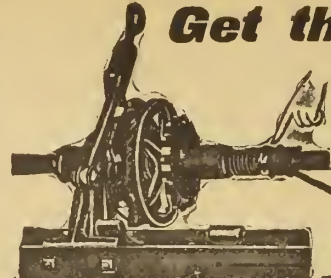
There are exceptions to all rules—ensilage has been claimed to be preferred to other feed, no matter what you offer it to, but one farmer says it is not so. He has found two exceptions, the dog and hired girl. However, those in this locality who put up ensilage for the first time last fall are happy farmers this winter.

I have noticed two singular effects of the frost in town. A board sidewalk is tipped at an angle so as to be unsafe to walk over, and a cement sidewalk has become "hog-backed," humped up in the middle and, of course, cracked wide open. A deep snow fell early, the snow was shoveled off the walks, then the ground froze and the middle of the walks was heaved up by frost while the edges were protected by the deep snow. It is a severe test for cement walks.

What is it to be insane? Sanity seems to be largely what the majority agree to. The apostle, Paul, was crazy to his royal listener when he thought himself speaking words of truth and soberness. A rich man owned some stumpage in northern Michigan which others thought worthless, and he set out 2,000 acres of it to apple trees. A law suit followed to pass upon his sanity. The orchard has testified for him and \$45,000 worth of apples last fall converted the unbelievers.

The trouble so far this winter is that there is too much snow in the woods. It lies up very loose and a man sinks in nearly to the waist line. A tree drops down into this deep snow when cut and has to be mined out and, of course, the sled drags and slumps and the result is that the work has been mostly abandoned. Another difficulty is that the sawing outfits cannot be moved from farm to farm, as the roads are drifted and piled high, and upsetting would surely be the result of an attempt to haul the heavy engines.

Farmers' institutes are much prized in this county. There was once some difficulty in getting the ladies interested in a women's section. They always liked to attend and hear the men scored for their shortcomings, but they flushed red in the face at the



Here Is Our Exclusive Quick Change Variable Drop Device

Does what everyone has been waiting for in a planter. Simple, strong and instantly adjustable, automatically from the seat. The driver by small hand lever in easy reach sets this clutch so as to turn these shaft one-sixth, one-fourth or one-third of a revolution so the machine plants 2, 3 or 4 kernels to the hill. All done without change of plate or leaving your seat.

Thus without stopping your team you can judge your soil in hollows and on hills and plant just the number of kernels to grow best—for better corn—more uniform growth, much larger yield per acre and **BIGGER PROFITS.** Write for a booklet.

Get the Only Planter That Drops 2, 3 or 4 Kernels Just Where It Should

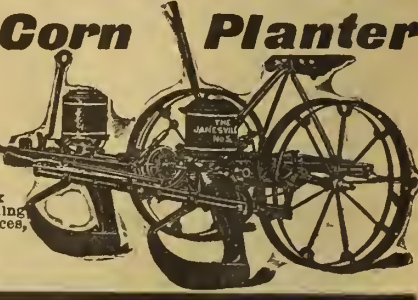
You know your land best of any man—just what the soil will grow—just where bad and good patches are in your fields, up and down hill and in the hollows. So we've made this corn planter to do for you what no other planter made today can do. With the *Janesville No. 5* you reach forward from your seat—set your *edge drop* while driving right along and instantly shift to plant 2, 3 or 4 kernels as the variable soil will best stand it. That alone is worth the price of the *Janesville No. 5* in the even growth and better crops you'll get on even a few acres in one year. But the *Janesville No. 5* also combines all of the other most desirable features of the most successful planters today. Absolute accuracy in selection and edge drop—and can plant round kernels in mixed corn too, so there can be no clogging! Double row, combination check row and drill. Quick change of plates without wrench so you can't get them in wrong—3 sets of plates for checking with each machine for a possible 18 changes—also 4 sets of plates for drilling with 24 changes. Don't think of buying until you write for booklets about

The Janesville No. 5 Variable Drop Corn Planter

Other special features include—possibility of changing runners so you can use the *Shoe, Stub or Disk Runners* on the same machine. Also we release the wire at end of field with our special automatic trip instead of the old way by rope. Our automatic device distributes the wire on reel while winding up. Numerous other special features and improvements.

FREE BOOKS—Tell all about our "Big 5" Line of Janesville Machines

Ask for corn planter booklet and say whether you are interested also in *Janesville Riding or Walking Plows—Janesville Riding or Walking Cultivators—Janesville Disk Cultivators—Janesville Disk Harrows.* Let us send you our Free Booklets—tell you the names of Leading Dealers who can show you *Janesville machines*, and all facts about prices, etc. Write today to our factory



The Janesville Machine Co., 31 Center Street Janesville, Wis.

idea that some unmarried domestic economy teacher can show them how to make and bake bread. Of late they come in smiling, bringing their bread with them and, there being no horrid men to hear the criticisms, they take their medicine with a grin.

I noticed in an eastern paper that the trustees of the Carnegie Institute

cactus and the wonderberry being flagrant examples.

Referring again to farmers' institutes, it has been shown that in states where a regular force of lecturers do not tour the state, that it is well for three or four counties contiguous to each other to combine and hold their meetings the same week,



Scenes on the 800-acre stock and grain farm of Mr. R. M. Dobson, Independence, Kan. The left is the home, supply tank house and the grove surrounding improvements No. 1. The right is of the pure-bred Hereford females in pasture. See Mr. Dobson's advertisement on page 23 and field note of this fine farm. It is for sale.

have decided to withdraw the \$10,000 yearly donation to Wizard Burbank, which they have been paying him that he may devote his time to originating new species of plants. The reason given is that he is commercializing his business, the spineless

using the same list of outside speakers. Here four meetings will be held the same week with the same force of speakers, commencing Monday at the first place, Tuesday at the second, and so on, thus getting a three days' meeting at each place in the one week. It cuts down traveling expenses and makes it feasible to get better speakers.

The man, or woman, who boasts of always speaking right out what is in the mind is never a model citizen. It is a sign of good breeding to refrain from blowing your nose in public or blowing off personal grouches. Treat your enemies as if some day they may be your friends, and your friends as if some day they may be your enemies, and you will make fewer enemies and lose fewer friends.

But Agricola is willing to take the risk as to a very few friends and trust them unreservedly on the basis of perpetual friendship. It is not absolutely safe, but I refuse to entertain suspicions as to the life-long loyalty of a few trusted friends.

By common consent the name "protein" is now used to apply to food-stuffs containing nitrogen. On an average protein contains about one-sixth nitrogen. Formerly "albuminoid" was a term used, the white of an egg being the best example. As alba means white, this gave the name to such compounds. Nitrogenous material was another term. This term defines it as containing nitrogen, but is clumsy, and the name protein is handy and simple and is now used to apply to all nutrients containing nitrogen. Farmers are now heard speaking of protein as glibly as of ensilage, but many of them have not learned that it simply means a nutrient containing nitrogen.

PLATTENBERGER'S DUROC SALE.

One of the most successful sales of Duroc Jerseys of this season was that of Mr. R. C. Plattenberger, at Mt. Vernon, Iowa, on Tuesday, January 18th. Over 300 persons were present at this sale and the accommo-

Makes a GOOD Gas Engine Out of a POOR One!

Often the highest-priced, most powerful Gas or Gasoline Engines give the most trouble—are hardest to keep going—are greedy on fuel, because the charge is hard to fire. The common remedy is to cut down the air and give more Gas or Gasoline. Fuel expenses are often doubled in this way. The right way is to throw away batteries and install the

Motsinger AUTO-SPARKER

NO BATTERIES NEEDED TO START

A White-Hot Spark for a Lifetime.

It will deliver an intensely hot spark at from 3 to 15 volts (adjustable while running). This will regularly fire any mixture that can be ignited, at high speeds or low. No battery could do it. Manufacturers of high compression engines make the Auto-Sparker part of their regular equipment for this reason. It is self-regulating, fool-proof and so durable that those made 10 years ago are in use today. Few have required repairs or replacements. A single month's saving on fuel will often pay for the Auto-Sparker. Don't waste expensive Gas or Gasoline. Ask for name of nearest dealer today and we will arrange for a "show-me" demonstration or no sale.



Live Dealers wanted. Sales guaranteed. (3) Write us. Motsinger Device Mfg. Co. Box 100, Pendleton, Ind.

THE VICTORY MILL

costs no more than inferior makes. Does more and better work than them all. May we send Free Circulars? No obligation to buy. Address: **SPERRY MFG. CO., 105 Vine Street, OWATONNA, MINN.**

dations which were made to sell the stock were inadequate and necessitated conducting the sale in the open air. Had it been possible to seat the buyers a better average might have been secured. As it was the prices were satisfactory to the seller and buyers secured good values. Mr. G. A. Newman, of Martelle, Iowa, topped the sale, paying \$51 for a splendid sow bred to I Am a Gold Model. There was a determined effort on the part of the buyers to secure sows bred to this good son of Model Again, a litter mate to Golden Model 2d, the champion of 1909. Mr. H. S. Hoyman, of Stanwood, Iowa, was a liberal buyer of the better sorts. Col. Fred Reppert conducted the sale in his usual satisfactory manner and was assisted in the ring by Colonels Mossman and Brock. A list of animals selling for \$25 and over is given below:

Lot.	Price.
1. G. A. Newman, Martelle, Iowa.....	\$51
2. J. B. Myers, Lisbon, Iowa.....	32
3. H. S. Hoyman, Stanwood, Iowa.....	34
4. Jno. Secor, Mechanicsville, Iowa.....	36
6. H. S. Hoyman.....	37
16. J. W. Orr, Independence, Iowa.....	50
18. Duane Rigby, Mechanicsville, Iowa.....	33
15. J. W. Orr.....	42
19. Edw. Zobel, Mt. Vernon, Iowa.....	35
22. H. Doremus, Marengo, Iowa.....	41
36. Chas. Alexander, Lisbon, Iowa.....	34
35. Thos. Rogers, Mt. Vernon, Iowa.....	33
13. C. W. Chapin, Martelle, Iowa.....	45
27. C. Alexander, Mt. Vernon, Iowa.....	37
32. C. W. Slater, Le Claire, Iowa.....	40
7. Jno. Secor.....	37
9. G. A. Newman.....	51
31. C. W. Chapin.....	38
17. Geo. Robbins, Martelle, Iowa.....	39
29. John Garloff, Mt. Vernon, Iowa.....	34
25. C. W. Chapin.....	33
10. J. W. Orr.....	31
30. Frank Klinsky, Mt. Vernon, Iowa.....	33
28. Geo. Newman, Martelle, Iowa.....	36
11. J. C. Shaw, Garrison, Iowa.....	34
23. L. L. Johnston, Vinton, Iowa.....	36
14. Jno. Stansel, Cedar Rapids, Iowa.....	34
33. W. B. Meeks, Martelle, Iowa.....	35
49. G. A. Newman.....	34
44. H. S. Hoyman.....	37
45. Same.....	33
48. D. L. Kohl, Martelle, Iowa.....	34
43. G. C. Rossler, Solon, Iowa.....	35
42. Frank Butterfield, Ankeny, Iowa.....	33
47. H. S. Hoyman.....	26
8. Same.....	41
5. Jno. Secor.....	38
36. J. C. Shaw.....	30
37. G. C. Rossler.....	30
34. Same.....	27
40. Same.....	25
21. J. W. Orr.....	26
39. H. S. Hoyman.....	27

SUMMARY.
47 head\$1,598; average...\$34.00

Raise 15 to 30 Bushels ---More Corn Per Acre---



TEST YOUR SEED CORN **DON'T PLANT WEAK SEED**

HOLDEN'S IDEAL CORN TESTER

Is the most profitable implement a farmer can have on his farm this year, because all seed corn is damaged and weak in vitality.

PROFESSOR HOLDEN SAYS: "Seed corn is the poorest in quality I have seen during my seven years in Iowa. If I could give but one order it would be that every farmer make a thorough germination test of every ear of seed corn before planting."

PROFESSOR CHAPPEL, Head of Weather Bureau and Crop Service says:—"Fifty per cent of the seed corn will not grow this year. Farmers might as well plant lead bullets as frost bitten seed. The only sure way is test every ear before using it for seed."

It has positively been proven that you can raise 15 to 30 bushels more corn to the acre by testing your seed. Can you afford to plant corn without testing? Write today for our free book on testing.

An ear of corn contains 1,000 kernels, each kernel should produce a stalk and each stalk an ear. A dead ear planted means the loss of 1,000 stalks and consequently 1,000 ears or a loss of 12 1-2 bushels of corn from the planting of a single bad ear; almost enough to pay for HOLDEN'S IDEAL SEED CORN TESTER.

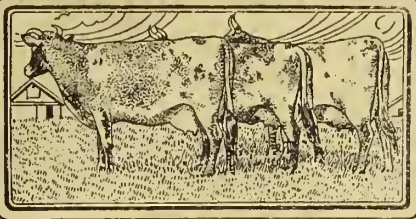
Try It Ten Days

Order one of these Testers, give it a ten days' trial and if you are not thoroughly satisfied with it after testing it with your own seed corn, ship it back at our expense and get your money back. We haven't had one returned yet. We make them in four sizes. Send for the FREE BOOK TODAY.

National Seed Tester Co., 1115 Walnut St., Des Moines, Iowa.

Write Today For This FREE Book on Testing

DAIRY



ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

FEEDING FOR PROFIT.

It, of course, does not necessarily follow that because a schedule of feeds and a plan of feeding works out successfully under one set of conditions it can be generally followed and produce equally good results. Fortunately in farming as in everything else the highest premiums are paid for originality and the ability to adapt, or be adapted, to new surroundings. On the other hand much can be learned from the experience of another without having to stand the expense—sometimes the loss—of experimenting and experiencing. In no line is this truer than in the feeding of live stock. Many of us are ever on the lookout for that "better" or "best" combination of feeds, that mixture par excellence—which will produce as much or more of as good or better milk, beef, pork or mutton at a less cost. Therein lies our greatest possibility or opportunity of profit. It is not our privilege to dictate what we shall take for our products. Commission men and others generously do that for us. We gain their audience only upon rare occasions and at all times rest our cases upon their fairness and generosity.

When it comes to matters of feeds and feeding we are allowed greater freedom. We may choose from nature's large assortment and govern ourselves only by economy and availability. Only in extreme cases, such as fitting an International champion or in making a new milk and butter record, is it excusable to lose sight of these considerations. Choice of feeds is, therefore, another of those personal questions which each man must answer for himself, after hold-

Following is a record of the feed consumed by her during the year:

December 1st to 10th, 90 pounds grain of following mixture: 105 pounds bran, 100 pounds corn meal, 20 pounds Daisy Dairy Feed, 25 pounds oats, 15 pounds oil meal; 10th to 31st, 378 pounds grain of the following mixture: 136 pounds bran, 136 pounds corn meal, 15 pounds Daisy Dairy Feed, 100 pounds oats, 50 pounds oil meal, 60 pounds Ajax Flakes, 50 pounds alfalfa meal, 40 pounds Molassine meal, 100 pounds gluten, 400 pounds beet pulp.

January, 568 pounds grain of the following mixture: 225 pounds bran, 205 pounds corn meal, 120 pounds Daisy Dairy Feed, 175 pounds oats, 86 pounds oil meal, 80 pounds Ajax Flakes, 126 pounds alfalfa meal, 15 pounds Molassine meal, 36 pounds gluten, 232 pounds beet pulp.

February, 504 pounds grain of the following mixture: 130 pounds bran, 215 pounds corn meal, 170 pounds Daisy Dairy Feed, 120 pounds oats, 110 pounds oil meal, 80 pounds Ajax Flakes, 215 pounds alfalfa meal, 162 pounds gluten, 215 pounds beet pulp; 280 pounds ensilage, clover hay and mangels.

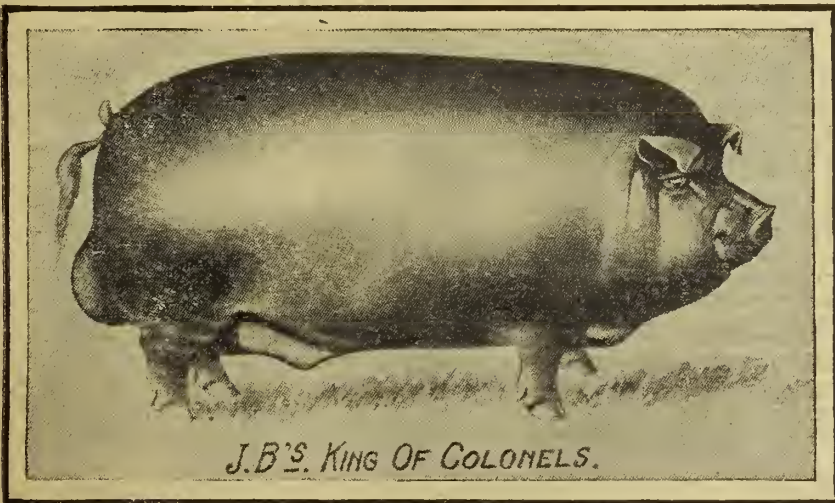
March, 558 pounds grain of the following mixture: 200 pounds bran, 150 pounds oats, 220 pounds Daisy Dairy Feed, 200 pounds gluten, 300 pounds alfalfa meal, 200 pounds oil meal, 50 pounds cottonseed meal, 300 pounds beet pulp.

April 1st to 20th, 320 pounds grain of the following mixture: 250 pounds bran, 150 pounds oats, 250 pounds Daisy Dairy Feed, 300 pounds corn meal, 150 pounds gluten, 150 pounds alfalfa meal, 150 pounds oil meal, 30 pounds cottonseed meal, 150 pounds Ajax Flakes, 250 pounds beet pulp; 20th to 30th, 150 pounds of same mixture, mangels, clover hay and pasture.

May, 186 pounds grain of the following mixture: 50 pounds bran, 216 pounds corn meal, 110 pounds oats, 108 pounds oil meal, 105 pounds alfalfa meal, 150 pounds Daisy Dairy Feed, 25 pounds gluten, 20 pounds cottonseed meal, 108 pounds beet pulp; hay and grass.

June, 348 pounds grain of the following mixture: 135 pounds bran, 270 pounds corn meal, 155 pounds oats, 105 pounds oil meal, 100 pounds alfalfa meal, 85 pounds gluten, 30 pounds cottonseed meal, 270 pounds Daisy Dairy Feed, 20 pounds Ajax Flakes, 100 pounds beet pulp.

July, 511.5 pounds grain of the following mixture: 115 pounds bran, 230 pounds corn



In the sale of Duroc bred sows and gilts to be held by Mr. J. B. Davis, of Fairview, Kan., on Wednesday, February 9th, there are listed a number of gilts by J. B.'s King of Cols. that will please the most critical red hog men. J. B.'s King of Cols. was got by old King of Cols. and out of an Ohio Chief dam. He was lost after having done but one season's service in Mr. Davis' herd. His daughters have the scale, the strong arched backs, well-sprung ribs, good feet and legs and an unusual amount of style and character. They should be appreciated and should go to breeders' herds. They are bred to Crimson Rule, a Crimson Wonder-Golden Rule boar, and to Monarch's Choice by Monarch, a Protection boar, dam a daughter of W. L. A.'s Choice Goods. See page 43 for Mr. Davis' advertisement.

ing due conference with the appetites of his animals.

The men who had charge of the young Guernsey cow, Missy of the Glen, while making her splendid year's record (954.76 pounds of butter fat, 1,100 pounds of butter and 14,591.7 pounds of milk) carefully planned what and how much she was to eat. That their planning was well done is proven by the heifer's performance.



COOK YOUR FEED AND SAVE Half the Cost—with the PROFIT FARM BOILER

With Dumping Caldron. Empties its kettle in one minute. The simplest and best arrangement for cooking food for stock. Also make Dairy and Laundry Stoves, Water and Steam Jacket Kettles, Hog Scalders, Caldrons, etc. Send for particulars and ask for circular P. D. R. FERRY & CO., Batavia, Ill.

When writing please mention this paper.

meal, 110 pounds oats, 115 pounds oil meal, 58 pounds gluten, 120 pounds alfalfa meal, 10 pounds cottonseed meal, 203 pounds Daisy Dairy Feed, 14 pounds beet pulp; and pasture.

August, 496 pounds grain of the following mixture: 140 pounds bran, 300 pounds corn meal, 95 pounds oats, 145 pounds alfalfa meal, 280 pounds Daisy Dairy Feed, 99 pounds oil meal, 35 pounds gluten, 12 pounds cottonseed meal, 23 pounds Molassine meal, 42 pounds beet pulp.

September, 511.5 pounds grain of the following mixture: 70 pounds bran, 65 pounds oats, 150 pounds corn meal, 70 pounds alfalfa meal, 110 pounds Daisy Dairy Feed, 10 pounds oil meal, 30 pounds gluten, 13 pounds cottonseed meal, 20 pounds Molassine meal, 35 pounds beet pulp; corn fodder, and pasture.

October, 511.5 pounds grain of the following mixture: 60 pounds bran, 65 pounds corn meal, 58 pounds oats, 60 pounds alfalfa meal, 115 pounds Daisy Dairy Feed, 20 pounds oil meal, 31 pounds gluten, 10 pounds cottonseed meal, 15 pounds Molassine meal, 60 pounds beet pulp; corn fodder and beets, and pasture.

November 1st to 20th, 160 pounds grain

Every Farmer Knows

That The

DE LAVAL CREAM SEPARATORS

are in a class by themselves as the best separators. But many have the mistaken idea, which would-be-competitors help to magnify, that they are "expensive" and that something "cheaper" will do in their stead.

The Facts Are That The

DE LAVAL CREAM SEPARATORS

are not only the best but at the same time by far the cheapest—in proportion to the actual capacity and the actual life of the machine.

These are simple facts easily capable of proof to any buyer who will take the trouble to get at them and who need only apply to the nearest DE LAVAL agent or send for a catalogue to do so.

THE DE LAVAL SEPARATOR CO.

165-167 Broadway NEW YORK 42 E. Madison Street CHICAGO Drumm & Sacramento Sts SAN FRANCISCO
173-177 William Street 14 & 16 Princess Street 1016 Western Avenue MONTREAL WINNIPEG SEATTLE

Holds World's Record

FOR CLEANEST SKIMMING

More prominent, practical dairymen and breeders use and endorse U. S. Separators than all other makes.

These many long-headed, business dairymen use U. S. Separators, not because some blazing advertisement has hypnotized them into buying, because it's "cheap." Sound reasoning of its many superior advantages only persuaded them. The best will always have the best.

THE 1910 INTERLOCKING STYLE U.S. CREAM SEPARATOR

is emphatically the Best and the only Separator to Buy. Because,

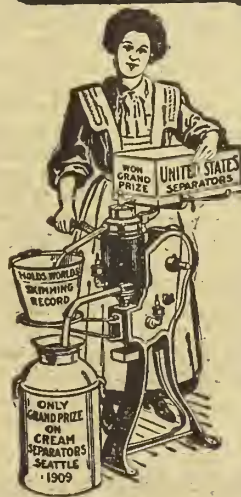
- 1st. It skims the cleanest.
- 2nd. It's built the strongest.
- 3rd. It's the easiest cleaned.
- 4th. It's the most convenient.
- 5th. It requires the least power.

The U. S. defeated all other separators at the Alaska-Yukon-Pacific Exposition, Seattle, on these five essential points and

Won Grand Prize 1909

Beautiful Illustrated Catalogue No. 81 will give you all information.

VERMONT FARM MACHINE CO., Bellows Falls, Vt.



\$15⁹⁵

AND UPWARD

THIS OFFER IS NO CATCH. It is a solid, fair and square proposition to furnish a brand new, well made and well finished cream separator complete, subject to a long trial and fully guaranteed, for \$15.95. It is different from anything that has ever before been offered. Skims 1 quart of milk a minute, hot or cold, makes thick or thin cream and does it just as well as any higher priced machine. Any boy or girl can run it sitting down. The crank is only 5 inches long. Just think of that! The bowl is a sanitary marvel; easily cleaned and embodies all our latest improvements. Gears run in anti-friction bearings and thoroughly protected. Before you decide on a cream separator of any capacity whatever, obtain our \$15.95 proposition.



THE LOW DOWN AMERICAN SEPARATOR

EXCELS ANY SEPARATOR IN THE WORLD

OUR LIBERAL TRIAL ENABLES YOU TO DEMONSTRATE THIS. While our prices for all capacities are astonishingly low, the quality is high. Our machines are up to date, well built and handsomely finished. Run easier, skim closer, have a simpler bowl with fewer parts than any other cream separator. Thousands of machines in use giving splendid satisfaction. Write for our 1910 catalog. We will send it free, postpaid. It is richly illustrated, shows the machine in detail and tells all about the American Separator. Our surprisingly liberal long time trial proposition, generous terms of purchase and the low prices quoted will astonish you. We are the oldest exclusive manufacturers of hand separators in America and the first to sell direct to the user. We cannot afford to sell an article that is not absolutely first class. You save agent's, dealer's and even catalog house's profits by dealing with us and at the same time obtain the finest and highest quality machine on the market. Our own (manufacturer's) guarantee protects you on every American Separator. We ship immediately. Western orders filled from Western points. Write us and get our great offer and handsome free catalog. ADDRESS,

AMERICAN SEPARATOR CO., Box 1073, BAINBRIDGE, N.Y.

of the following mixture: 60 pounds bran, 55 pounds oats, 55 pounds corn meal, 50 pounds alfalfa meal, 50 pounds Daisy Dairy Feed, 40 pounds beet pulp, 10 pounds oil meal, 10 pounds gluten, 10 pounds Molassine meal, 4 pounds cottonseed meal; 20th to 30th, 160 lbs. grain of the following mixture: 15 pounds bran, 20 pounds oats, 50 pounds corn meal, 40 pounds alfalfa meal, 35 pounds Daisy Dairy Feed, 40 pounds beet pulp, 15 pounds oil meal, 15 pounds gluten, 20 pounds Molassine meal, 13 pounds cottonseed meal; clover, hay and pasture.

These various mixtures, fed cleverly and intelligently as they were, did the work and the results were more than commensurate with the outlay. Average ambitions, however, would not warrant the same or an equal expenditure. This program of feeding is only suggestive under average farm conditions.

THE MALE ON THE SMALL DAIRY FARM.

A subscriber at Muscatine, Iowa, asks about the advisability of a person engaged in dairying in a small way keeping a bull. He has never had any experience in handling a bull and asks if there is not considerable danger to life and limb connected with having a bull around the premises, especially where there are children in the family. In other words, what he asks about is whether one should continue the policy of depending upon a neighbor to keep the type of a bull that you desire to have access to, or whether one should have one in his own herd.

A general rule cannot be laid down that will fit all cases, but no man will go very far in building up a dairy herd unless he is progressive enough to breed along certain specific lines. Of course, there is no reason why several neighbor farmers cannot work along similar lines and consequently use the same bull. The Missouri Experiment Station is possibly doing more than any other public institution to encourage that policy and already the plan has been adopted in that state of "farming" out good dairy bulls at a nominal fee. The plan is to keep one bull in a neighborhood as long as he can be kept without in-breeding and another one of a similar type is put in his place. This plan is being worked out by

Professor Eckles, one of the greatest dairy experts in the United States, and there is no doubt but what this general policy could be pursued by any group of farmers whose ideals were similar, but who at least were working to the same end.

Going back, however, to the individual farmer whose neighbors are not engaged in the same industry as himself, we will again repeat that no man can go very far unless he will put some of his own individuality into the selection of his herd header. We take very little stock in the idea that a bull of any kind is dangerous. Under no circumstances would we trust one implicitly, but if they are rightly handled from the time they are young there is practically no danger, though it is a fact that children ought never to be allowed to run in a paddock or pasture where a bull is kept; that is fundamental and cannot be departed from with impunity.

Where a bull is at all nervous or is easily excited we would have no hesitancy whatever about taking his horns off. That simple process alone will in most cases humble his lordship and reduce the danger of handling him to the minimum.

While there are those who do not favor the practice of allowing a bull to run with the herd, we have had such good results from that plan that we strongly favor it. Of course, some plan must be employed of keeping the young cattle from the cows when this plan is carried out, but that is a good plan from more than one standpoint. A bull running with the herd is much more contented and very much less liable to be fractious than if he is kept in close quarters and, furthermore, the results from him will be much more satisfactory.

The Mystery of Feeding.

To the Editor of The Homestead:

The work of feeding stock is one that interests every farmer. It is the bed rock of success. And yet, it is one of the least understood subjects that can be touched upon. Farmers would like to know more about feeding than they do. They listen to the addresses of institute workers with anxious hearts, longing to get some pointers that will be of assistance to them. They read everything they can find that will throw any light on the matter, and still, they are often more mystified than enlightened by what they hear and read. They do not understand the terms used. The language in which the thoughts are expressed are many times beyond their comprehension, so they go right on in the old, uncertain way.

Now one thing is certain in regard to winter feeding; it needs to be made as nearly like that of the summer months when the stock is out on pasture as possible. Can we make it so? If so, how? If we can answer that question we may get some light on the subject.

We all know that when a cow is out on grass she gets about all she needs to keep her up in good flesh and to enable her to do her work in the dairy to the best possible advantage. What does she get that helps her to do this?

She gets something to keep her bowels active, something to build up flesh and muscle, something to give quantity to her flow of milk, something to make that milk as rich as nature has enabled her to give.

Here it is, then. What we want in winter is a ration that will give warmth, healthy body, flow of milk and quality for that milk. What will best do this?

Timothy, clover or cornstalks will give bulk to the ration, a thing which is vastly important. Without bulk no cow can be at her best. Ensilage furnishes feed in good form, juicy and containing considerable nourishing power. By many farmers it is considered a most desirable way of preserving corn for winter use. Put hay and ensilage or dry corn together and we have all the bulky food needed.

But this would be a one-sided ration alone; something has been lost out of the hay and corn by the process of curing. So we need to look for something that will make up for the elements taken away.

This we find in grain. Corn meal, wheat bran middlings, gluten, cotton-

Keep \$25 to \$50 in Your Own Pocket—That's as Near Home as You can Get

"I'll Treat You Square"



way your name today and let me write you personally and send you my splendid, big color-illustrated separator book right away.

Let Me Send You My GALLOWAY Bath-In-Oil SEPARATOR On My Real 30 Days' Free Trial

YOU can test the Galloway alongside of the highest-priced \$85 to \$110 separators sold by anybody today—to prove that my new Bath-In-Oil principle is the greatest invention in separators in history. Gears run in oil like a \$5,000.00 automobile. Dust-proof—no oil-hole. Impossible to heat or wear or put out of commission the splendid mechanism which gets you the biggest profits—all the cream—all the butter-fat. All gears enclosed—handsomest machine made (as you can tell below by the illustration); milk and cream spouts high for cans; lowest revolving milk tank, only 38 inches high; so no high lifting.

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KIMBALL'S DAIRY FARMER, WATERLOO, IA.

seed meal, ground oats will supply the loss. From these, by consulting market prices, we may make up a ration for ourselves. By experimenting a little we may strike a ration that will fit the case of each cow fairly well. Suppose we take this as a starter:

Ensilage, thirty pounds; timothy, eight pounds; corn meal, four pounds; gluten, two and one-half pounds. This may be varied as the cows vary or as we can get other kinds of feed to better advantage. The important thing is to think it out for ourselves. By trying we can hit on a ration that will give us the best results. And what we study out that way is worth more to us than anything we read or hear. And every hour put in this way is time well expended.

Edgar L. Vincent.

Variation of Fat in Milk.

To the Editor of The Homestead:

Fat varies more than any of the other constituents of milk. This great variation, although it exists, is not known generally. The fat content may be as low as 1.04 per cent, or it may reach as high as 12.52 per cent. These are rare cases, however, and very seldom does it exceed 7 per cent or fall below 2.5 per cent.

The fat content of a whole herd of cows varies but within comparatively narrow limits. Chief among some of the causes of this variation are: (1) Individuality of cow; (2) breed of cows; (3) time between milkings; (4) manner of milking; (5) whether the milk be that drawn first, or the stripplings; (6) age of cow; (7) lactation period; (8) feed of cows; (9) environmental condition.

That the quantity of milk from individual cows differs, is a fact well known, yet all people do not know that some cows produce milk containing more fat than the milk of other cows. For this reason many cows are wrongly condemned and thrown from the herd when by the exercise of a little knowledge, a good cow would often be saved. For instance, one cow may be producing a small amount of milk, but which if tested would be found to be equal, if not greater in fat content, to that of a cow producing a

greater amount of fat than the morning's milk. This is accounted for by the fat secreting cells of the udder being more active during the day while the cows are exercising.

The more manipulating of the udder in milking, the greater the fat content of milk produced. This has been shown to be true after many experiments. Milking machines require the thorough manipulation of the udder by means of the process of stripping, to insure more and successive milkings by the machine. Further than this accessory manipulation, the machines are a decided advantage in the saving of time and labor.

The fore and after milk exerts its influence upon the fat content of the milk. That which is drawn first is lower in fat content than that drawn last. This is true for three reasons: (1) The milk is present in the lower portions of the milk reservoir and canal of the teat, in such conditions as to allow creaming to proceed; (2) the larger fat globules in passing through the milk ducts of the udder, meet obstructions which cause them to remain undrawn until the last; (3) the fat is probably re-absorbed by the lymphatic glands. This latter cause probably exerts but little influence.

If the calf is to receive his share of the milk, give him that drawn first, since it is more suitable for his purpose than the richer milk drawn last.

At one time in her life a cow is more vigorous and productive than at another time of her career. At the time of her first calf, which is when she is about three years old, she is still growing and not as productive as at her more mature age of seven. At this age she is more productive and vigorous and produces the greatest amount of milk. As she advances in age the quality and quantity of her milk decrease. In the case of some cows, age has little if any effect. It depends upon the individuality of the cow.

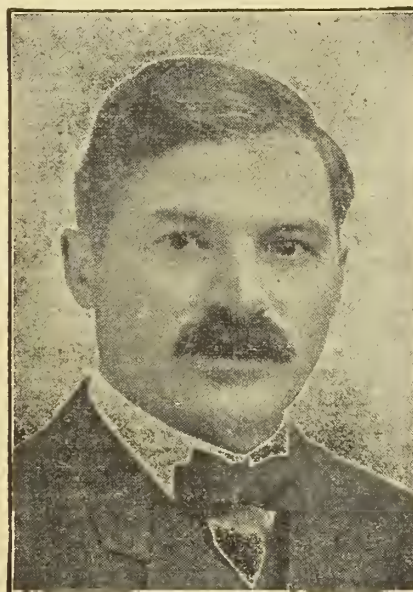
By lactation period is meant the milking period from the time of calving until the cow is dry. For the first three days after calving the cow yields milk rich in solids, not fat. This gradually changes and the fat content increases for about two weeks. This then becomes constant and re-

volatile fats and make the butter hard. As spring comes on, however, and the cows get on the grass the proportion of olein in the fat is increased and the butter is softer and more highly colored.

Unfavorable environment of conditions affect the flow of milk. Impure surroundings, sudden changes in temperature, poorly ventilated barns and lack of exercise affects the fat content. Change of location, fright, ill treatment, also exert their influence in the decrease of the fat content.

Story Co., Ia. Augustus Forest.

A creek and woods pasture is a grand thing to have on the farm where dairying is one of the main side lines. Down among the timber along our creeks is still good feed. The blue grass grows well there and is spreading every year. Blue grass reveals in shade, and along with the shade is protection, making the grass good pretty much all winter. It is not yet thick enough to furnish a great amount of pasture, but at the rate it is coming in will be there thick enough in a very few more years. The dairyman can not get along without plenty of grass, and the longer he can prolong the grass season the better.



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Cattle Specialist

Wisconsin State Veterinarian, 1906-7-8

To Dr. David Roberts is due a full measure of credit for the advancement of the live stock industry of this country.

In addition to his liberal contribution to the many farm publications, his twenty years practice as a veterinarian, and his three years service as State Veterinarian of Wisconsin, he has devoted the greater portion of his time to the education of the stock owners through his many public meetings throughout the country, without remuneration. His common-sense, practical, heart-to-heart talks have gained for him a place in the hearts of the stock owners, and a position of authority with them.

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Dr. Roberts urges all stock owners who have his book, to read it, not only once, but also to make a practice of studying some one disease or ailment each day, and in this way become thoroughly familiar with the proper handling of stock.

The Doctor will send any owner of live stock who has not already received one, a copy of his book, The Practical Home Veterinarian. In this book he gives the symptoms, and describes fully and tells how to treat the diseases every stock owner should know about. These are some of the diseases he urges every stock owner to learn all about:

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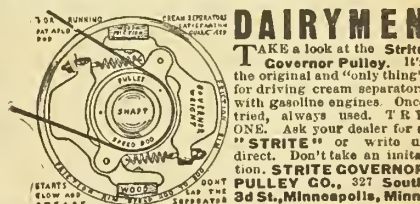
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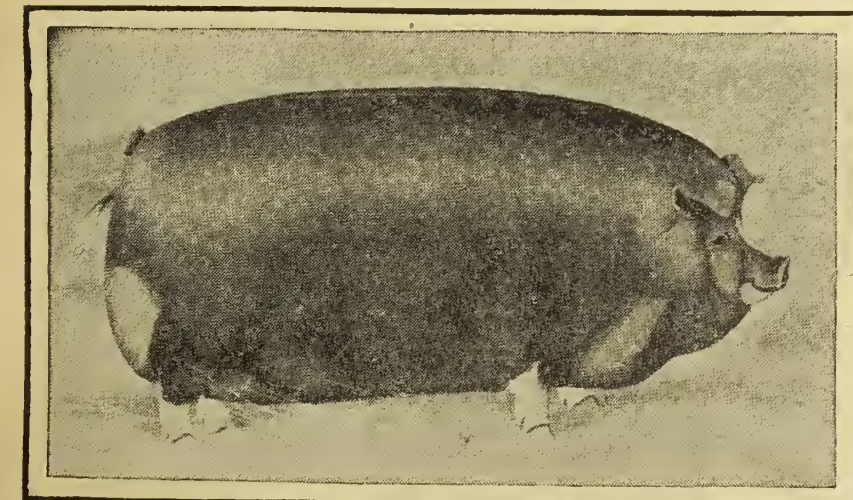
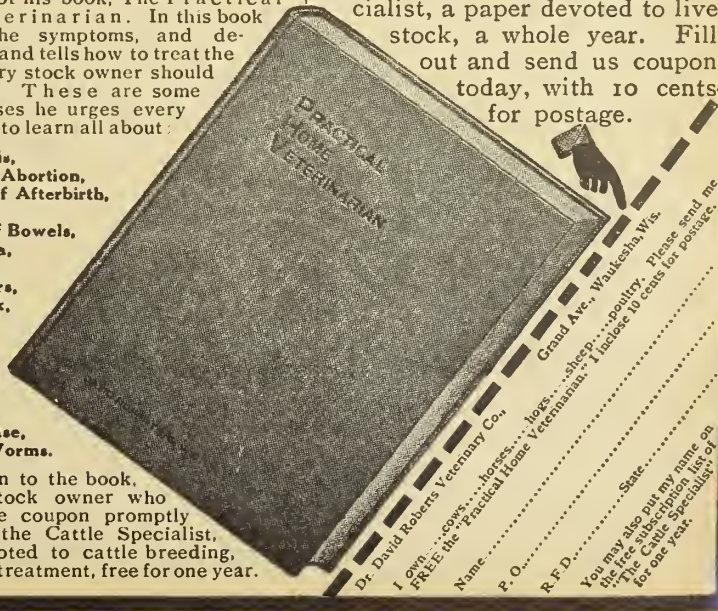
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The above engraving is that of one of the Modesty strain of Poland China brood sows from the herd of Mr. F. G. Paul, at Marshalltown, Iowa. Particular interest centers in this announcement from the fact that a large number of the family, and possessing the same excellence, go into Mr. Paul's sale at Marshalltown, on February 8th. Catalogs may be had by writing Mr. F. G. Paul, Marshalltown, Iowa. See page 45.

greater quantity. By means of a Babcock test, the cow producing the most fat can be very accurately determined.

There is also a marked difference in the breed of cows. The Holstein, for instance, produces a large amount of milk of comparatively low fat content, while the Jersey produces a small amount of milk of a comparatively high fat content.

The time between milkings causes a variation in the fat content of the milk. It is known that if cows are milked at varying times during the day, the milk drawn in the latter part of the day or evening will contain a

main so for about three months. After this the quantity decreases and the quality increases. For a long time it was thought that the kind of food had considerable influence upon the amount of fat produced. This since has been disproved and it is found that the kind of food does not affect the quality of milk at all. It does, however, increase the quantity of milk produced, and thus the amount of fat produced is greater.

The kind of food fed does, however, affect the composition of the fat itself. Gluten meal, in fact all gluten products, produce butter containing a high per cent of olein and usually an increase in the volatile fats. Cottonseed meal produces a decrease in the volatile fats and makes the butter produced harder and more tallowy in appearance. The feed of winter, consisting as it does of dry food stuffs, has a marked tendency to decrease the

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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

Treating Diseases in the Flock.

To the Editor of The Homestead:

When hens are properly fed in clean, well ventilated houses, there will be but little sickness. As a general thing when a hen gets real sick her head might just as well come off, for she is most likely to die. If she does get well, she will seldom be worth anything to the poultryman. Better to prevent the diseases than to be compelled to work to cure them. Some diseases often appear in mild form and readily yield to treatment.

A teaspoonful of aconite in a gallon of water may be given for colds. A good roup remedy should be kept on hand at all times, and should be given at the first sign of the disease. A good treatment is to grease heads with a mixture of equal parts of turpentine, lard and coal oil.

When liver of fowl is inactive, give a teaspoonful of castor oil. The smaller the chicken the smaller the dose.

When disease breaks out in the flock, remove infected fowls to a secluded spot. Feed lightly on warm mash and disinfect poultry runs.

N. D. Neale.

Green Food for Poultry in Winter.

To the Editor of The Homestead:

During the summer months the hens generally range in green pastures or have access to some kind of green food, but in the winter it is often very different. No provision being made for green stuff, the hens must go the winter through without it. This is a mistake. Green food of some kind is essential for the health of the flock and the filling of the egg basket. Green food lightens up

the concentrated foods and vegetable acid acts as a tonic to the digestive organs.

There are a number of green foods that may be easily provided. Second growth clover or the third cut of alfalfa makes a splendid green food in the winter. It can be thrown into the pen, and the hens will peck away the green leaves leaving the stalks for litter.

Cabbages are excellent and so are beets. The other day I saw enough cabbage frozen and wasting in a field to keep a flock of a hundred hens in feed all winter. And the owner of the cabbage was a farmer with a flock of Barred Plymouth Rocks. Of course, the cabbage heads were not matured, but that makes little difference. If they had been buried, the leaves would have kept green and tender for poultry use. To feed cabbages, suspend them from the ceiling by strings, letting them hang just high enough above the floor for the hens to reach conveniently. They might also be suspended to a nail driven in side of the wall.

Onions make a good green feed, but it is best to chop them. Turnips and potatoes either cooked or raw will be relished by the flock of hens, and their appreciation will be seen by the eggs they leave in their nests.

Subscriber.

Oiled Muslin for Windows.

To the Editor of The Homestead:

A correspondent writing from Garden Grove, Iowa, asks for information as follows:

In an issue of your paper it was suggested to use "oiled muslin" instead of glass windows in poultry houses as a means of ventilation, and to avoid dangerous drafts. What is "oiled muslin" and where can it be purchased?

Oiled muslin can, I believe, be procured at the large poultry supply houses. Some time ago I noticed an advertisement of the article, but cannot recall the address. It may be made at home by dipping a light grade of muslin into linseed oil.

But the fact remains that this article is used much less at present than it was in the early days of the fresh air movement. It has the advantage of being impervious to moisture, and admitting more light than if un-oiled. It also allows the entrance of more air than the glass windows, and this without draft. The chief objection to its use is that it excludes sunlight, which is indispensable in a poultry house as a sanitary agent. If our correspondent has large, double windows, the lower sash might be removed, and oiled muslin or burlap used instead, leaving the upper half of glass to admit sunlight. If the windows are single sashes, unless the house is very shallow, I would remove the windows entirely, substituting fine mesh wire. There can be no drafts unless there are openings opposite the windows. Make the rest of the house warm, taking special care that there are no cracks or crevices to admit drafts. If faith is lacking to believe that fowls can be kept safely in a house thus open, roosts can be so arranged that burlap curtains can be let down around the flock at night. A wagon wheel fastened on a stout, hardwood post of suitable height, makes an especially convenient roosting arrangement. Placed in a rear corner of the building, it is an easy matter to adjust the burlap curtains. The spokes of the wheel permit the fowls to be so compact that it greatly increases the warmth in cold weather. Too many should not be kept together, so that on warm nights they can have room to arrange themselves with comfort.

Of course all this advice is based on the supposition that the house faces the south, and that the windows are



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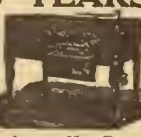
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in the front. If there are windows in the other sides, they should not be left open, and a curtain should be provided for winter weather, as glass radiates cold by night as well as heat by day.

I can assure our friend from personal experience, that the birds will not suffer from cold or frost. In one of these open-front houses in Massachusetts, in severe cold weather the water in the drinking vessels was slightly skimmed over with thin, soft ice, while on the same nights water in the closed buildings froze solid in the pails. This aptly represents facts in regard to the temperatures in open and closed houses.

The health of the fowls will be far better, and their laying qualities (food and other care being right) greatly increased. Roup and colds are almost unknown among fowls kept in open front houses. I know a physician in Wyoming who at my advice built an entirely open-front poultry house, following directions in regard to shape, dimensions, etc. Last winter was the most severe winter known for many years, and he reported that there was not a frosted comb among his choice Orpingtons, and they could go in or out of the house at pleasure, no matter what the weather might be.

So our friend can understand why I believe oiled muslin to be an unnecessary bother and expense. The simpler the method that will work successfully the better. Mrs. S. B. Titterington.

POINTERS.

—Mr. Frank J. Clonss, of Clare, Iowa, will make right prices on Toulouse geese, Rouen and Muscovy ducks, as per advertisement on page 20.

—Mrs. J. S. Benage, of Hazel Run, Minn., is offering good young White Holland turkeys for sale.

—Prices will be made on Mammoth Bronze turkey hens and toms as per advertisement of Mr. J. Nissen, of Meservey, Iowa, which appears on page 20.

—There is an advertisement on page 20 of The Homestead by Mr. C. L. McCrea, of Newton, Iowa, offering Single Comb White Leghorn cockerels for sale.

—Messrs. Wolfe & Junger, of Titonka, Iowa, are making prices on Red Cap and Hamburg cockerels in their advertisement appearing on page 20 of The Homestead.

—Mrs. Nelson Hyde, of Manson, Iowa, can furnish Homestead readers with choice Rose Comb Brown Leghorn cockerels at very moderate prices, as per advertisement on page 20.

—Mammoth Bronze turkey gobblers are advertised for sale by Mrs. H. Drew, Greenfield, Iowa, on page 20. These are choice birds and she is pricing them at reasonable figures.

—Mrs. J. A. Campbell, of Manning, Iowa, has some Banded Plymouth Rock cockerels and Mammoth Bronze turkeys toms which she is offering to Homestead readers in her advertisement on page 20.

—Mrs. H. Drew, of Greenfield, Iowa, advertises Mammoth Bronze turkeys on page 20. Mrs. Drew has some of the very choice Mammoth Bronze turkey gobblers in the state. Write her about these gobblers at once.

—Farm-raised thoroughbred Rose and Single Comb White Leghorn cockerels, selected from fine, large, vigorous birds, are offered for sale by Mr. Charles G. Jackson, of Prescott, Iowa, in his advertisement that appears on page 20.

—Mrs. Chas. Steddom, of Lacey, Iowa, will quote prices on Buff Plymouth Rock cockerels, Pekin ducks and Embden geese. Her advertisement appears on page 20. She will also make reasonable prices on eggs from the above varieties in season.

—The advertisement of Mr. J. W. Hopson, of Bedford, Iowa, offering Single Comb White Leghorn cockerels for sale, will be found on page 20 of The Homestead. A part of Mr. Hopson's birds have been scored and he can furnish cards with same.

—Barred Plymouth Rock cockerels, large in size, extra heavy bone with deep blue clear barring, sired by high-scoring cocks, are offered for sale by Mr. M. A. Easthouse, of Hartley, Iowa, in his advertisement that appears on page 20 of The Homestead.

—We desire to call the attention of our readers to the advertisement of Mrs. Lola Schee, of Farmington, Iowa, appearing on page 20 of The Homestead. Mrs. Schee is prepared to furnish Embden geese either in pairs, trios or single birds at a reasonable price.

—Mr. Orrin Bierma, of Altoona, Iowa, has some large, vigorous, heavy-boned Mammoth Bronze turkey toms and hens, with fine markings and from high-scoring stock, on which he will quote reasonable prices to Homestead readers. See advertisement on page 20.

—Mrs. James Cockerton, of Whiting, Iowa, advertises twenty-five choice Barred Plymouth Rock cockerels and thirty-five head of Toulouse geese on page 20. Mrs. Cockerton has some of the very best flocks in the state. You will be satisfied with her stock if you send her an order.

—Mr. H. B. Simpson, of Albany, Ill., in furnishing copy for his advertisement found on page 20 of The Homestead, writes: "I have the finest bunch of Barred Plymouth Rock cockerels for sale that I ever raised. They are heavy boned, with very distinct and even barring, cockerel mating, Bradley strain, and are from birds scoring from 90%

This Month Johnson Says Better Write Him Quick—

DON'T wait a day longer. I'll start you right and start you quick to making the money. Send your name and get my "big letter" telling how—my Big Free "Old Trusty" Book—I wrote it myself, as ever. Over 200 pages this year, and over 1,200 pictures—most of them new, so you'll be bound to be interested. Thousands of users of "Old Trusties" have written me again, and sent in helpful advice to chicken raisers and photographs of results of their big hatches and broods of broilers.



Book Ready

Old Trusty—Asbestos-and-Metal-Encased Incubators and Brooders



Old Trusty practically runs itself. Over 150,000 are being used everywhere. But "Old Trusty" this year is better than ever—more convenient and more handsome. No charge for the improvements. I use the same California Redwood and the finely finished asbestos-and-metal encasing, too. "Old Trusty" is certain and sure. Simple and easy to run. "Stands without hitching," and "hatches without watching" like you have to do with some others.

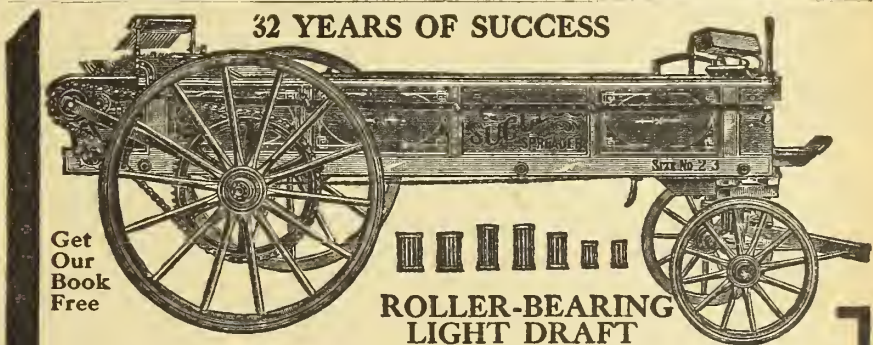
Sent to You Promptly on 40, 60 or 90 Days' Trial

10-Year Guarantee—75% Better Hatches Guaranteed

Don't pay two prices. Look up the facts about "Old Trusty," which is way past the "experimental" state these last seven years and you can read why—and all about me and my 150,000 customers and friends, in my Free Poultry Book—before your order. My price is lower to you this year—below \$10, complete—freight paid east of the Rockies, and no worry about it.

Let me write you, personally, and tell you my price to you, and send you my Big, New 1910 Poultry Book, Free. Will you? Write me—

M. M. Johnson, Incubator Man
Clay Center, Nebraska



SUCCESS SPREADER

The only spreader with a 32-year record of good work. Simplicity, Durability and Light Draft always foremost. Direct Chain Drive. No Cog Gears. The choice of men who investigate thoroughly. Wood or metal wheels. A generation of experience back of every Success. The leader from the first. Exclusive features all patented. Catalog of facts Free. Write us promptly.

Kemp & Burpee Mfg. Co. SYRACUSE N. Y.

Keep It Off The Cows Put It On The Fields

No matter how hard you try you can't make an old stable with dirt floors and wood partitions sanitary—you can't keep it clean and sweet. Wood partitions gather dust and disease germs. Dirt floors with their tramped-in filth should never come within a stone's throw of your milk pail. When a cow gets off her feed and her milk yield falls below normal, look to your stable. It may be as clean as you can make it; but that may not be clean enough. Equip your stables

The Louden Way

than profits will not fall off. The cow that is best treated gives the most milk—the best milk—the richest milk. She has a haap of cow sense. She appreciates light and air, and she will see that you get your money back for making her home modern. If you will put a **Louden Litter Carrier** to work behind her, your boy or your man will clean the barns in less time and with less labor. We have been fitting up barns for 50 years. We will be glad to give you the benefit of this experience by suggesting what you need for yours, without any expense to you. Send for catalog, tell number of cows you have and submit rough sketch of stable. **LOUDEN MACHINERY COMPANY, 609 Broadway, Fairfield, Iowa.**



to 91½ points. I won seven prizes on my Rocks at the Interstate Fanciers' Association at Clinton, Iowa, in November, 1909."

—Mr. Chas. McCaskey, of Ogden, Iowa, who is advertising Barred Plymouth Rock cockerels for sale in his advertisement on page 20, has taken special care in their selection. They were bred from carefully-selected matings and special pains will be taken to suit customers.

—Mr. E. H. Bodley, proprietor of the Square Deal Poultry Farm, Newton, Iowa, was very successful in securing prizes at the late Iowa State Poultry Show on his Single Comb Rhode Island Reds, Barred Plymouth Rocks, Mammoth Bronze turkeys and Toulouse geese. His advertisement appears on page 20.

—Buff Plymouth Rocks, that are buff, and that have the size, are advertised for sale by Mrs. M. C. Thompson, of Atlantic, Iowa, R. R. 2. She has twenty-three cockerels scoring from 90 to 93 points by Judge J. L. Todd, who remarked while judging that they were one among the best flocks he had scored this winter. Write for her prices which are

very reasonable, quality considered. She also has a few pullets to spare and eggs in season. See advertisement on page 20.

—Mr. Joseph Kappes, Jr., of Ashton, Iowa, has an advertisement on page 20 of The Homestead, offering Rose and Single Comb White Leghorn and Black Langshan cockerels for sale.

—Mr. J. E. Treloar, 1617 West Ninth St., Des Moines, Iowa, has Rose Comb Brown Leghorn cockerels for sale on which he is quoting prices in his advertisement found on page 20.

—Mr. Charles J. Mackey, of West Liberty, Iowa, in sending copy for his new advertisement, found on page 20 of The Homestead, writes that the advertisement he has been carrying in The Homestead the past few weeks sold him over 100 birds. He has a few very choice cockerels yet to offer at \$2 and \$3.50 each. His Single Comb White Leghorns won at a recent show at West Liberty, Iowa, first and second on hens, first and second on pullets, third and fourth on cockerels and second and third on pens and special prize for best ten. Mr. Mackey is mat-

ing up his breeding pens and will book orders for eggs. Note the advertisement under Leghorns and write him.

—Mrs. Ida Hepp, of Audubon, Iowa, can supply Homestead readers with Single Comb Brown Leghorn and Barred Plymouth Rock cockerels, as per price named in her advertisement found on this page of The Homestead. She also has Pekin drakes for sale.

—Mrs. D. H. Gillett of Luther, Iowa, is offering some cockerels and yearling hens in Light Brahmas and Buff Cochins. They are well marked and heavy boned, many of them being two pounds over weight. Owing to the sale of their farm Mrs. Gillett will make very low prices for the next two weeks. See advertisement on this page.

—Mrs. H. J. Hess, of Waterloo, Iowa, has an advertisement on this page of The Homestead. In furnishing copy she writes: "My Mammoth Bronze turkeys are large, heavy boned and finely marked. They are bred from a line of prize winners. The Barred Plymouth Rock cockerels are large, vigorous, heavy-boned birds, with narrow, even barring. The birds I used the past year were closely related to noted winners. The White Wyandottes are also choice birds, large, thrifty and fine in breeding."

—The high range of prices which now rules for both eggs and poultry make it highly essential that the poultry raiser should use every possible means to make the most out of the situation. The hatching season will soon be here and the use of a good incubator will be a matter of economy, as hens that would otherwise be hatching may be turned into layers, thus increasing the egg supply at a time when they would else be practically only an expense. Our readers will be interested in the advertisement on page 19 of the Wisconsin Incubator Company. This factory introduced an innovation in the incubator trade by supplying both the incubator and the brooder, the two separate machines, for only \$10, and freight prepaid at that. This incubator may be bought on thirty days' trial if purchaser should wish to do so. Full description, however, together with information concerning the incubator and brooder, will be learned from the catalog, for which write to the Wisconsin Incubator Company, Box 105, Racine, Wis.

DOGS.

COLLIE PUPPIES From our imported studs and bitches. Write for our catalog and photos, giving full description. Hundreds of testimonials. Our Collies work; pairs no akin furnished; prices to suit. We ship to all parts of the United States and guarantee safe delivery. **UNDERHILL KENNELS, Knoxville, Iowa.**

SCOTCH COLLIE PUPPIES For sale. \$5 to \$8. Very best breeding; will make fine workers. Write us your wants. **T. A. Stevenson, Shannon City, Iowa.**

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS, Cumming, Iowa.**

FOX Terriers, king of the rat terriers. Puppies and grown stock for sale. Also a few choice S. C. Red pullets. Address Sabot Kennels, Polla, Iowa.

TURKEYS.

Mammoth Bronze Turkey TOMS and hens. Large, vigorous, heavy-boned, fine markings; from high-scoring stock. Write for reasonable prices. **Ortin Bierma, Altoona, Iowa.**

MAMMOTH Bronze turkeys, from prize-winning stock at the State Poultry Show of 1909 at Fairfield, Ia. Choice birds at reasonable prices. 1st prize yearling tom for sale. **Geo. E. McGraw, R. 1, Selma, Ia.**

I Am Offering Large White Holland Turkey Toms At \$5 each. Send the money, and first come, first served. Address **D. J. Roach, Ayrshire, Iowa.**

White Holland Turkeys Best of breeding stock and choice young birds for sale. **Mrs. J. H. Richardson - Bristow, Iowa.**

50 White Holland Turkey toms, extra choice birds. Prices reasonable. Address **Mrs. H. A. Sexsmith, Greenfield, Ia.**

For Sale M. B. turkeys. Have bred them fifteen years; size, markings and a square deal our motto. **Mrs. Harry Davidson, Adrian, Mo.**

Mammoth Bronze Turkeys Large, heavy-boned birds. **Mrs. A. Kitson, Route 2, Audubon, Iowa.**

Mammoth Bronze Turkeys Best of stock. Prices reasonable. Address **Mrs. H. Drew, Greenfield, Ia.**

Mammoth Bronze Turkeys Choice young toms, \$7; hens, \$4. **J. Nissen, Meservey, Cerro Gordo Co., Iowa.**

WYANDOTTES.

I Have the Best White Wyandottes I ever raised, now ready for sale, \$10 trio a specialty. Quality stock. **J. M. Erickson, Slater, Iowa.**

WYANDOTTES White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. A. L. Anderson, Indianola, Ia.

SILVER LACED WYANDOTTES Hens, roosters and pullets for sale cheap in lots. **Mrs. J. W. Lowe, Clarksville, Iowa.**

White Wyandotte Cockerels and cocks, scored and unscored, \$1.25 up. Write your wants. **RINER BROS., NOBLE, IOWA.**

Buff Wyandotte Cockerels, bred from show yard strains; for sale. Also a few pullets. **Geo. M. Deyoe, Mason City, Ia.**

Silver Laced Wyandotte cockerels for sale; larger and better than over. Write today. **S. R. Young, Greenville, Iowa.**

BRAHMAS.

Light Brahma Cockerels ONE to five dollars each. I have a fine lot of them; no pullets for sale. Eggs in season. Address **FRANK P. HEALY, HEDFORD, IOWA.**

Ottumwa POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. **R. T. Cameron, Ottumwa, Ia.**

LEGHORNS.

Rose Comb Brown LEGHORNS

COCKERELS for sale at the Pike Timber Stock Farm as follows: Single bird \$2, two or more \$1.50 each, six for \$1 each. Address **T. A. DAVENPORT - BELMONT IOWA.**

There Is Money In Eggs

S. C. W. Leghorns. Get the laying kind. Hen flock averaged over 15 dozen eggs each, 1909. Cockerels, all prices. Write for prices and show record. **Mary Culver, Route 1, King City, Missouri.**

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. From prize-winning and high-scoring stock. Cockerels or hens, \$1.50 each, 6 for \$7.50, \$15 per dozen. Eggs, 100, \$4; 200, \$7.50. 12 years with this breed. **R. R. STEWART, R. 2, Charles City, Iowa.**

SPECIAL EGG STRAINS

FARM raised, thoroughbred R. and S. C. White Leghorn cks.; selected, fine, big, vigorous birds. Pair, \$3.50; 3, \$5. **Chas. G. Jackson, Prescott, Iowa.**

PURE-BRED Rose Comb Brown Leghorn cks. \$1.50 each or five or more at \$1 each. **Carey R. Jones, Route 6, Eldora, Iowa.**

FEW choice S. C. W. Leghorn cks., scored and unscored. Unscored, \$1 each; scored, \$2 up. Wyckoff strain; eggs. **Mrs. W. McIntyre, Red Oak, Iowa.**

ROSE COMB Brown Leghorn cockerels for sale, high-scoring, \$1.25 each. After January 15, 1910, \$1.50. Address **Eva D. Tutt, Alta, Iowa.**

FIFTY ROSE COMB BROWN LEGHORN COCKERELS \$1.25 each; very choice. **J. A. Albertus, Portsmouth, Ia.**

FOR SALE Eight Single Comb White Leghorn cockerels at \$1 each; \$7.50 for the bunch. **Donald Gregory, Route 2, Keota, Iowa.**

For Sale Rose Comb Brown Leghorn cockerels, 242 strain, price \$1.50 each; 4 for \$5. Address **J. E. Treloar, 1617 W. 9th St., Des Moines, Ia.**

Cockerels for sale—R. and S. C. White Leghorns and Black Langshans; single birds \$1.25, 6 for \$1 each. **Joseph Kappes, Jr., Ashton, Iowa.**

S. C. W. Leghorn cockerels \$2 and \$3.50 each. Eggs \$1.50 for 15; \$6 for 100. **Chas. J. Mackey, Box 523, West Liberty, Iowa.**

For Sale—S. C. W. Leghorn Cockerels \$1 each. **C. L. McCrea, R. 6, Newton, Iowa.**

SINGLE COMB White Leghorn cockerels; large and white. I have show room score cards for a part of these birds. **J. W. Hopson, Bedford, Iowa.**

Very Choice R. C. Brown Leghorn cks., \$1.25 each. Lots of 4 or more, \$1 each. Pure bred. **Mrs. Nelson Hyde, Manson, Iowa.**

RHODE ISLAND REDS.

S. C. Rhode Island Reds

TOMPKINS STRAIN

Write for descriptive circular.

P. H. Thiel, Renwick, Humboldt Co., Iowa.

S. C. Rhode Island Reds Choice utility cks. and pullets at very reasonable prices, as I must have room for breeding pens. **M. E. Birchard, Hazleton, Iowa.**

R. C. R. I. Reds Cherry Red strain, scored and unscored. Cockerels for sale. Prices right. **Harry C. Blake, Maquoketa, Ia.**

S. C. Rhode Island Reds A choice lot of scored birds for sale; eggs in season. **Lee Nichols, R. 4, Woodward, Ia.**

Rose Comb Rhode Island Reds. A choice lot of cockerels scored by Todd, for sale. **D. E. Witner - Polk City, Iowa.**

Single Comb Reds Scored cockerels, prices right as to quality; unscored \$1 each. **Frank Chalupa, Pleasant Plain, Iowa.**

S. C. R. I. Red Cockerels For Sale \$2 to \$5. **Mrs. H. L. Alsop, Sylvia, Iowa.**

S. C. R. I. Red cockerels; fine birds, from \$2 up to \$5. A few R. C. R. I. Red cockerels at a bargain. **Mrs. Sophia Rader, Laurel, Iowa.**

A Few Choice Rose Comb R. I. Red cockerels. Orders for eggs booked now. Best of stock. Address **A. T. Sanders, Perry, Iowa.**

100 R. C. Rhode Island Red cockerels, \$1 each. Eggs in season. Address **Mrs. T. A. Gaugh - Bristow, Iowa.**

S. C. R. I. Red Cockerels \$1.50 and \$3.00. **Mrs. Francis Culver, Culverdale Farm, Red Oak, Iowa.**

ORPINGTONS.

S. C. Buff and Black Orpingtons, best strains. Cockerels, \$2 and \$3 each. Pullets, \$1.50 and \$2. Eggs, \$2 and \$3 per 15; utility, \$6.50 per hundred. **E. B. Conable, Box A, Independence, Ia.**

S. C. Buff Orpingtons, both sexes; choice stock from \$1 up. Also a few good cocks. Address **Nettie Crane, Route 1, Blencoe, Iowa.**

LANGSHANS.

BLACK LANGSHANS OF BOTH SEXES For sale, from high-scoring, prize-winning stock. Address **Sarah F. McKeen, Sac City, Iowa.**

BLACK Langshan cks. for sale; scored and unscored birds; scores ranging from 92½ to 94½. Write for prices. **H. M. McKeen, Sac City, Iowa.**

COCHINS.

Buff Cochins Exclusively 50 large-framed, shapely, even-colored, well-feathered cockerels at \$2 to \$5. Write **W. W. Vaughn - Marion, Iowa.**

PARTIDGE Cochins, 12 fine hens at \$2.50 singly. \$7 per trio or \$25 per dozen; one cock, \$3; 2 cockerels, \$3 each. **Mrs. Floy Collins, Viola, Iowa.**

DUCKS.

SALE OF PEKIN DUCKS Large size, \$1.75 each or 3 for \$5. **John M. Hall - Blairsburg, Iowa.**

Muscovy Ducks For Sale \$3 a pair. **Mrs. T. W. Glass, R. 6, Sac City, Iowa.**

PLYMOUTH ROCKS.

219 Egg Strain B. P. Rocks

AND these birds are Bino Ribbon winners. I have a few cockerels and females for sale, from \$1.50 to \$5 each. Address **W. A. HARTMAN, Box 242, Winterset, Iowa.**



Barred Rocks for Sale

FROM \$2 to \$5 each, as to age and number ordered. Nothing but strictly choice birds will be shipped. **P. M. PHILLIPS, CENTERVILLE, IOWA.**

BARRED ROCKS

A CHOICE bunch of cockerels this year, sired by the best blood in the country. We can furnish you first-class breeders to improve your flock, or exhibition birds to head choice yards. Prices reasonable; write us your wants. **Mason C. Ogg, Monroe, Ia.**

BARRED ROCKS

IF you are in need of some strong breeders or choice exhibition cockerels (the barred to the skin kind), I can supply your wants. Write for prices and circular giving full description and breeding of same. **Albert A. Foster, Route 2, Russell, Iowa.**

BARRED PLYMOUTH ROCK COCKERELS

LARGE size and extra heavy bone, with that deep blue, clear barring, not brassy, sired by high-scoring cockerels from hens and pullets weighing from 7½ to 11 lbs. Price \$2 to \$4 each. Write your wants to **M. A. Easthouse, Hartley, O'Brien Co., Ia.**

BARRED ROCKS

WHY not buy your breeding cockerels now? You get a better selection and cheaper than later. Write postal today for price list. Address **W. S. RUSSELL - OTTUMWA, IOWA.**

400 B. P. Rocks For Sale. Cocks, cockerels, hens and pullets. Prize-winners, egg producers; large, vigorous, nicely marked. None better. 15 years a breeder. Mated exhibition and breeding pens a specialty. Prices reasonable. Bargains for quick buyers. **C. H. Tyrrell, Sioux Rapids, Iowa.**

GUTH'S WHITE ROCKS

Winners at the Iowa State Show. Choice cockerels at \$2 each.

Cbas. Guth, E. 18th St. and Logan Ave., Des Moines, Ia.

BARRED ROCKS

75 Large-boned, nicely-barred cockerels, from prize-winning stock, for sale. 15 years a breeder. **Mrs. T. C. Churchill, R. 1, Monroe, Iowa.**

White Rock Cockerels, \$2 to \$5 Each

Pullets, \$1 to \$3. Mann's green bone cutter and 50-egg incubator cheap. **F. H. Eckert, Charter Oak, Ia.**

Barred Plymouth Rocks

Pekin ducks, White Holland turkeys; extra large, and first prize winners. **Fred Post, Moulton, Iowa.**

BARRED Rock cockerels, bred from carefully selected matings; vigorous, fine, even barring; extra care taken in selecting cks. to suit customers; from \$2 up. **Chas. McCaskey, Route 2, Ogden, Iowa.**

Buff and Barred Rocks 85 large, fine cockerels, extra heavy-boned, scoring 88 to 94½; farm raised. **E. C. Rice, Gray, Iowa.**

FOR sale—A few choice bred Barred Rock cockerels at \$1.25 and \$2 according to weight. **Mrs. S. C. Jennings, R. F. D. No. 2, Weldon, Iowa.**

SCORED M. B. turkeys; toms, \$5 up; pullets, \$3 up. From high-scoring stock. **White Rock** cockerels. **Sterling Martiu, Melrose, Iowa.**

BARRED Rock cockerels, Bradley strain, cockerel mating. Choice stock for sale, from 90¾ to 91½ point birds. **H. B. Simpson, Albany, Illinois.**

Barred Plymouth Rock cockerels and hens; large, good-shaped, well-barred birds, scored and unscored. **Arthur T. White, Red Oak, Iowa.**

Extra Fine BARRED ROCK Cockerels Scored, unscored. Write **J. H. Platt, Montezuma, Ia.**

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of choice quality. Address **Mrs. M. C. Thompson, Route 2, Atlantic, Ia.**

400 B. Plymouth Rocks for sale; large boned; nicely marked. Nothing but first-class stock shipped; prices reasonable. **J. W. Wagner, Monroe, Ia.**

HOUDANS.

HOUDANS Hens, pullets, cocks and cockerels; forty quality birds for sale cheap; single, trio or pens. Must close out stock. **W. T. Wilkinson, Box 15, E. Des Moines, Ia.**

GEESE.

"GEESE" The Big Embdens PAIRS, trios or a single bird at reasonable prices, from the best flock to be found, and all my own raising. Write **Mrs. Lola Schee, R. 2, Farmington, Ia.**

MISCELLANEOUS.

25 Barred Plymouth Rock cockerels, leading strains. Also some choice hens. 35 Toulouse geese, best of stock. Address **Mrs. James Cockerton, Whiting, Iowa.**

BUFF COCHIN B.P. Rock cockerels, and White Holland toms, sired by a 35 lb. tom, and Pekin ducks. For good birds at a low price address **Mrs. J. E. Haxter, Walnut Grove, Minn.**

BARRED ROCK Cockerels

Scored and unscored. Also a few M. B. toms for \$3 each. **Mrs. J. A. Campbell, R. 5, Manning, Iowa.**

White P. Rocks and Indian Ganses. Four first, 2 second prizes Iowa State Show. Cks. \$1 to \$3. **Hennessy Bros., Strawberry Point, Iowa.**

ROSE Comb Rhode Island Red, White Orpington cockerels; heavy-boned, extra nice large birds. Also Toulouse geese. **P. F. Smith, Montezuma, Ia.**

FOR SALE—125 cks. and yearling hens in Light Brahmas and Buff Cochins; standard wt. or over. \$1.50 each and up. **Mrs. D. H. Gillett, Luther, Iowa.**

Toulouse Geese

CHOICE M. B. turkeys, B. P. Rock cockerels and W. Wyandottes; large, heavy-boned stock, finely marked. **Mrs. H. J. Hess, R. 6, Waterloo, Iowa.**

MISCELLANEOUS.

50 Cockerels

At your own prices. Imported Hartz Mountain Canaries. Send stamp for egg catalog and special offer. We do not compete with breeders of utility stock nor with fake advertisers. Single Comb Rhode Island Reds a specialty. **Mrs. F. W. McIntyre, R. 5, Red Oak, Ia.**

COCKERELS AND PULLETS

FINE, large, early hatched breeders, farm range stock; Barred P. Rock, White P. Rock, Buff P. Rock and Single Comb Brown Leghorn. Circular free if you mention this paper. **C. E. MATTESON, Pewaukee, Wisconsin.**

MAMMOTH BRONZE TURKEYS AND PEKIN DUCKS

From Prize-Winning Stock for Sale. **George M. Grimstead, Mitchellville, Iowa.**

IOWA King strain Mammoth Bronze turkeys; grand in size, shape, bone and golden bronze. Young toms weigh 20 to 30 lbs.; pullets above standard wt.; sired by prize winners of extra large size; can ship trios and pens not akin. 200 B. Rock cks., 8 to 11 lbs.; big, husky fellows; grand in shape, markings. Send for prices and show record. **G. Gallaher, Spencer, Ia.**

BARRED ROCKS and ROSE COMB WHITE LEGHORNS

BARRED ROCKS scoring from 85 to 92. If you want good birds at low prices write us. Score cards furnished. **Mrs. F. W. Hann, Harlan, Ia.**

Square Deal Poultry Farm

E. H. Bodley, Prop., Newton, Iowa.

AT Iowa State Poultry Show we won 4 firsts, 2 seconds, 1 third. Send for catalog of S. C. R. I. Reds, B. P. Rocks, M. B. turkeys, Toulouse geese. Cockerels, \$2 up. A few extra good trios, \$10.

FOR SALE—Mammoth Toulouse geese, Barred Plymouth cockerels, White Cochins Bantams, Pearl Guineas. Enclose stamp for description and price list. Breeding stock prize winners. Address at once, **J. O. Walton, Belle Plaine, Iowa.**

White H. Turkeys Barred, white; P. Rocks, S. C. W. Leghorns, Pekin and Indian R. ducks, Toulouse geese. Stock and eggs for sale. We won 110 prizes and four silver cups the past year. **W. M. Shaw & Co., Monroe, Iowa.**

COLUMBIAN Wyandottes, R. C. R. I. Reds, bred from New York, Chicago, St. Louis, Oshkosh, Iowa State dams and Buffalo Center show winners. Prices reasonable. **N. Buffalo Poultry Yards, John A. Arends, Buffalo Center, Ia.**

Barred Rock Cockerels, \$1 to \$1.50, according to weight. S. C. Brown Leghorn cockerels and pullets, \$1 each. Scored males of both breeds, \$2. **Geo. F. Blinke, Maquoketa, Iowa.**

48 Breeds chickens, ducks, geese, turkeys. Fowls, eggs, and incubators at low prices. America's greatest poultry farm. Send 4c for fine 80-page 16th Annual Poultry Book. **R. F. Neubert, Box 807, Mankato, Minn.**

Full-Blood R. C. Rhode Island Red cockerels and S. C. White Leghorns \$2.50 each. English Ring Neck pheasants, two hens and a cock, \$5. Am closing out. **B. F. Cook, Council Bluffs, Iowa.**

ROUEN DUCKS For sale. Show birds or good breeding stock. Good B. P. Rock cockerels; large-boned, nicely-barred. Prices reasonable. **J. H. Howarth, Moulton, Iowa.**

150 Bradley and Thompson B. P. Rocks Cks. and pullets; also choice M. B. turkey toms, Mo. King strain. **H. Schlatter & Sons, Lawler, Ia.**

Mammoth Bronze Turkeys and Silver Laced Wyandotte cockerels. **Mrs. D. C. MOLSHERRY, Plymouth, Iowa.**

50 BREEDS Fine, pure-bred Chickens, Ducks, Geese and Turkeys. Send 2 cents for large new Catalog. **W. A. WEBER, Box 906 Mankato, Minn.**

RED CAPS and HAMBURG CKLS.

For sale, from high-scoring birds. Price \$2 each. **WOLFE & JUNGEL, TITONKA, IOWA.**

Barred Plymouth Rocks and Golden Wyandottes; 200 for sale. Get your order in early. **J. L. Todd, Route 3, Des Moines, Iowa.**

Choice W. Wyandottes and Mammoth Pekin in ducks; McClave strain. **E. S. DYAS, BELLEVUE, IOWA.**


BARGAINS now in all leading varieties of Rhode Island Reds, Orpingtons, Leghorns, Wyandottes and Rocks. **Wm. Koell & Co., Box M, Hampton, Ia.**

BLACK and W. Langshans, Buff Orps, R. C. R. I. Reds, Lt. Brahmas, M. B. turkeys, scored or unscored. Prices right. **Mrs. S. E. Newell, R. 6, Audubon, Ia.**

FOR SALE—Some extra fine pure-bred Rose Comb Brown Leghorn and W. Wyandotte cockerels. Write for prices. **LeRoy Cottew, Alta, Iowa.**

WHITE P. ROCK chickens, White Holland turkeys, Pekin ducks and Embden geese. Prices right. **S. M. Comptou, R. 3, Newton, Iowa.**

Lump Jaw



The first remedy to cure Lump Jaw was

Fleming's Lump Jaw Cure

and it remains today the standard treatment, with years of success back of it, known to be a cure and guaranteed to cure. Don't experiment with substitutes or imitations. Use it, no matter how old or bad the case or what else you may have tried—your money back if Fleming's Lump Jaw Cure ever fails. Our fair plan of selling, together with full information on Lump Jaw and its treatment, is given in Fleming's Vest-Pocket Veterinary Adviser.

Most complete veterinary book ever printed to be given away. Contains 192 pages and 23 illustrations. Write us for a free copy.

FLEMING BROS., Chemists,
210 Union Stock Yards, Chicago, Ill.

Don't Have a Blind One

"VISIO"

Wonderful Discovery




DISEASES of the EYE successfully treated with this NEW REMEDY.

AN ABSOLUTE CURE

for Moon Blindness, (Ophthalmia), Conjunctivitis and Cataract, Shying horses all suffer from diseased eyes. A trial will convince any horse owner that this remedy absolutely cures defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO," use it under our GUARANTEE; your money refunded if under directions it does not effect a cure. "YOU PAY FOR RESULTS ONLY." \$2.00 per bottle, postpaid on receipt of price. Visio Remedy Ass'n., Dept. D, 1933 Wabash Ave., Chicago, Ill.

WHEN DOCTORS DISAGREE



—or at any other time, use Kendall's Spavin Cure to cure that Spavin, Curb, Ringbone, Splint, Bony Growth or any other lameness. It's the safest way. Keep a bottle of

KENDALL'S SPAVIN CURE

on hand so you can use it promptly. "Please send me one of your books, 'Treatise on the Horse.' I have been using Kendall's Spavin Cure for years and find it a sure cure for Spavin, Ringbone, Splint and Lameness. W. M. Singer, Perham, Minn."

Good for man and beast. Your druggist will supply you. Price \$1.00 per bottle; 6 for \$5.00. Also ask him for that valuable book, "Treatise on the Horse," or write direct for a copy. Address DR. B. J. KENDALL CO., Enosburg Falls, Vt.

LAME HORSES




quickly and positively cured of Sprains, Ringbone, Curls, Shoe Boils, Capped Hocks, abnormal growths and all lameness, with

REMOV-ALL

Sold on money-back guarantee. Leaves horses sound and unscathed. Lump Jaw is cured in less than three weeks with Adams Rapid Lump-Jaw Cure. Easy to use. Guaranteed. Write for FREE TREATISE on curing these diseases.

H. C. ADAMS MFG. CO.
Dept. 14, Algona, Iowa

Shoe Boils, Capped Hock, Bursitis



are hard to cure, yet

ABSORBINE

will remove them and leave no blemish. Does not blister or remove the hair. Cures any puff or swelling. Horse can be worked, \$2.00 per bottle, delivered. Book 6 D free.

ABSORBINE, JR., (minked), \$1.00 bottle.) For Boils, Bruises, Old Sores, Swellings, Gout, Varicose Veins, Varicocitis, Ailays Pain.

W. F. YOUNG, P. D. F., 37 Temple St., Springfield, Mass.

Death to Heaves Guaranteed



Or Money Refunded.

NEWTON'S Heave, Cough and Distemper Cure.

\$1.00 per can at dealers, or express paid. 18 years' sale. Send for booklet, Horse Troubles.

THE NEWTON REMEDY CO., Toledo, Ohio.

WANTED--Farmer or Farmer's Son

With rig in every county to introduce and sell family and veterinary remedies, extracts, etc. Fine pay. We mean business. We want salesmen in all states. Write us.

SHORES FARM REMEDY CO., TRIPOLI, IOWA.

HORSES

Going Blind, Bary Co. Iowa City, Ia. Can Cure

VETERINARY MATTERS

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

MAY BE FARCY.

(1) I have a horse whose legs stalk up when he stands in the barn and then a small boil will come out and break and run for a day or so, then heal up for awhile, and come out somewhere else; has done this for over a year. What can I do for it? He is in good flesh and feels good. (2) One of my young sheep has a bunch on the side of the nose. It is soft. Is it caused from teeth? (3) I lost a lamb which was sick about forty minutes, then died. Its sides went in and out. What was the trouble?

(1) The symptoms suggest farcy, the skin form of glanders, and for that reason we do not feel justified in prescribing treatment. Have an examination made by a graduate veterinarian. (2) Split the "bunch" open and swab out with tincture of iodine once daily. (3) We cannot say what was the matter. It may have died of convulsions or apoplexy brought on by indigestion.

SWELLING ON WITHERS.

I have a black Percheron mare, four years old, that has a swelling on the left side of the withers; the swelling is extending downward and forward, where color comes with some swelling on the right side of withers. It started during June of last year. It is not getting softer, but it seems to me rather harder and is not quite so large now as it has been already. Some call this swelling a fistula, but a few men thought it was a fibrous tumor, asserting that if it were fistula it would have opened and discharged pus before this time.

"Fistula" means an open, discharging sinus or pipe and is present after an abscess has burst or been opened. The present condition is not a fistula, but it is likely that pus is present deep down in the parts affected. We would clip off the hair and blister the enlargement with a mixture of one dram of biniodid of mercury and two ounces of cantharides. This will either disperse the swelling or soften it so that it may be opened for evacuation of pus and usual treatment of an abscess.

APOPLEXY.

I purchased a registered Chester White male hog at the state fair. He grew well and was in best of health, being fed on corn slops, oil meal and water. He had served six of my sows and on Sunday I salted the hogs and fed as usual. On Monday morning I fed and he ate well and seemed to be in good health and I went to town, was away about three hours, and on my return I found him lying stretched out on his side and striking with all four feet. I removed him to where it was warm and in about an hour he died in great agony, foaming at the mouth and striking with front feet. I opened him and found everything in healthy condition, but the stomach liquid was green and with yellow foam or froth in it.

We think it most likely that the boar died of apoplexy induced by over-feeding and lack of exercise. Indigestion may also be present before the attack. Had you opened the skull blood on the brain probably would have been found as the cause of the symptoms described.

PREVENTING NAVEL TROUBLE.

Is there any preventive for navel troubles in young foals?

Have the mare foal in a clean, disinfected, fresh bedded, whitewashed box stall and when the navel cord has been severed saturate it with a 1-500 solution of corrosive sublimate and repeat the application twice a day until the cord dries up, drops off and no raw spot can be seen. If the cord has to be tied use a string that has been soaked in the disinfecting solution. The disease is due to filth germs and cleanliness and use of disinfectants as advised will prevent its occurrence.

SWELLING.

I have a cow that first got a swelling on the left side of her face and it gradually worked down her throat and is now all swollen up between the front legs. I had the aid of a veterinarian, but his medicine did not seem to do any good. Now can you tell me what was the cause of it and what should have been the treatment, for I do not know whether it is catching or not and I would like to know how to treat same disease.

We are not able to say confidently what has caused the swelling, but probably it is from infection of a wound by germs. Pus may be present and if it could be located and let out the cow might be saved. Swelling is only a symptom and without an ex-

EVERY FARMER SHOULD START THE NEW YEAR RIGHT

Don't Do Another Thing Until You Investigate the Merits of

THE INDEPENDENT HARVESTER CO.

THE FARMERS' COMPANY, PLANO, ILL.

We Want You to Know of the Organization and Working of the Greatest CO-OPERATIVE Enterprise in Existence.

We want to show you how through Co-Operation of farmer, dealer and manufacturer, we are breaking the shackles of trust despotism—insuring your freedom from trust dictation.

Cut Out and Mail to PLANO, ILL.

INDEPENDENT HARVESTER CO.,
Box 6, Plano, Illinois.

Send me complete information about the Farmers' Co-Operative Machinery Co.

Name.....

Town.....

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We want to show you that through our Co-Operative plan we are saving thousands of dollars every year to farmers and dealers everywhere.

Don't delay, but get in immediate communication with this great Farmers' Company, and learn of the liberal inducements received by becoming members of this great enterprise.

Own Your Own Factories—Manufacture Your Own Machines

Fill Out the Little Coupon and send to

The Independent Harvester Co., Plano, Ill.

The Farmers' Company NOT IN THE TRUST



Skin Games of the Horse Market

IT IS not enough to keep your eyes open when you buy a horse. You must know in advance the tricks and dodges—the smooth games—of "Gyps" and dishonest horse-dealers. This priceless information is given in

"Horse Secrets"

An invaluable book for every man who owns, buys or trades a horse.

"Horse Secrets" reveals in plain language the swindler's secrets of "shutting a heaver," of "plugging a roarer," of producing artificial plumpness, of hiding lameness, broken wind, bad eyes and ears, poll evil, glanders, etc.—of hiding a spavin; the secret of "blishoping" (altering an old horse's teeth to make him look young); of bogus pedigrees; of false measurement; of fake auctions and sales. It tells about the "Widow" trick, "Gingering," and scores of other sharp practices. It will put you on your guard. And it gives helpful secrets—by which you can legitimately fatten and market your horses at less cost; secret of hand-raising a foal; secret of fattening drafters for market; secret of silage feeding to horses; secrets about curing vicious vices—balking, halter-pulling, tail-switching, "cribbling," and many others. Gives a complete list of market terms and their meanings, and of stud books approved by the Government.

Farm Journal

is a constant source of help and economy to the practical horse-breeder, farmer, stock-raiser, poultryman, gardener, trucker, the woman folks, the boys and girls. It is worth far more than the price asked for it and "Horse Secrets" together. We will send a copy of "Horse Secrets" and sixty consecutive numbers of the Farm Journal—all for only \$1.00.


This is the most liberal and important offer ever made to horse owners. Send subscription and a dollar bill (money order or check) today to

Farm Journal

1023 Race Street Philadelphia, Pa.

A splendid Almanac for 1910, free, if you accept this offer within 10 days.

Plow and Harrow at Same Time



This plow attachment pulverizes and levels the soil as it is fresh turned and moist, thereby making a perfect seed bed before the ground gets lumpy and dries out. It is light running and requires no more horses than for ordinary plowing. Made for sulky and gang plows.

The cutting blades are made of the best plow steel, with plenty of curve to the blade so that it produces a draw cut. These blades are self-cleaning and cornstalks or trash cannot lodge.

THE NATIONAL ROTARY HARROW ATTACHMENT

is destined to become the greatest farm labor-saver of the age! It does the work far better and easier than the old drag, because of the draw cut blades, and also because the ground is easiest pulverized and leveled when it is fresh turned. When your plowing is done, your harrowing is done! By all means SEE this great machine attachment. It will save you dollars, time and trouble. Ask your dealer to show it to you today. If he hasn't it, write us today and we will see that you are supplied. (1)

NATIONAL HARROW COMPANY, Box 122, LEROY, ILL.

VETERINARY COURSE AT HOME

\$1200 year and upwards can be made taking our Veterinary Course at home during spare time; taught in simplest English; Diploma granted, positions obtained for successful students; cost within reach of all; satisfaction guaranteed; particulars free. ONTARIO VETERINARY CORRESPONDENCE SCHOOL, Dept. 10, London, Canada.

A. S. ALEXANDER, V. S.

MADISON, WIS.,

Veterinary Editor The Homestead.

CONSULTING VETERINARIAN. Advice and prescription by mail, \$1.00.

it. It may, however, not prove possible to wholly remove such an enlargement.

An Inexpensive Circular Barn.

To the Editor of The Homestead:

I built an inexpensive and convenient barn last year, one where cost, room and ventilation are taken into consideration. The barn is built round and is sixty feet in diameter with twenty-foot posts. These posts are set on large rock or cement butments and is built without sills. In the center of the barn is a silo sixteen feet in diameter and thirty-four feet high. To enclose such a barn it will take 3,770 board feet and it will have 2,827 square feet of floor with a cubic area of 56,548 feet to the tops of the posts. For a barn the same height forty feet by sixty feet it will take 4,800 board feet to enclose, including the two gables, giving the roof one-half pitch making a difference of 1,030 board feet and the floor space in the square barn would be 2,400 square feet or a difference of 427 square feet less room, and the cubic area of the latter would be 48,000 feet or a difference of 8,548 cubic feet in favor of the round barn.

I used a hip-roof on this barn, making more hay room and a stronger roof with an eighteen-inch cornice. It required about 3,260 square feet of roof to cover the same, while the square barn with eighteen-inch cornice would require 3,559 square feet, or a difference of 293 feet less for the round barn. The hay mow floor is eight and a half feet from the ground, making room for about seventy-five tons of hay. The stalls for the horses are sixteen feet long, seven and a half feet wide in front and fourteen feet wide, at the back with a six-foot feedway in front.

The stalls will square 192 square

feet to ring of halter. Now one man can sit down on him to hold him steady while the other man puts the ring in his nose. After you learn how to do it two men can ring any size bull easily. William H. Utley, Cowley county, Kan.

CAN'T POSSIBLY DO BETTER.

You cannot possibly do better than to avail yourself of the Red Letter Subscription Offer of this paper. If you will remit \$1.50 to The Homestead, Des Moines, Iowa, the following six splendid papers will be sent to you one whole year: The Homestead, The Kansas City Weekly Star, Home Life, Commercial Poultry, Kimball's Dairy Farmer and The National Swine Magazine.

PROUD DISPERSION OF SHORT-HORNS.

The dispersion sale of the Short-horn herd of Mr. C. L. Prouty, of Council Bluffs, Iowa, brought out a good local crowd with but a few from a distance. Thirty head were sold for an average of about \$71.50, the top price being \$150, paid by Mr. B. F. French, of Honey Creek, Iowa, for Forest Cruickshank, a Butterfly yearling bull. Godoy's Violet, a three-year-old Violet Forth, brought \$135, the top of the cow sale. Colonels Jones, Mosier, Dutrow and Stageman did the selling. List of sales at \$75 or more is here given:

FEMALES.

Roan Violet, four years, sire Scotch Baron, M. Stageman, Council Bluffs, Iowa	\$ 75.00
Roan Lady, two years, sire Scotch Baron, Louis Brown, Council Bluffs, Iowa	90.00
Godoy's Violet, four years, sire Orange Godoy 2d, J. I. Rosenbach, Council Bluffs, Iowa	135.00
Violet's Valentine 4th, ten years, sire Frederick Hero, Wm. Rohenburg, McClellan, Iowa	82.50
Orange Princess 12th, nine years, sire Victoria Baron, Joe Nansil, Council Bluffs, Iowa	117.50



BARN OF WILLIAM LENTZ, ANKENY, IOWA.

feet, while the stalls of a square barn, including feedway the same size, ten feet wide will square 220 feet or a difference of twenty-eight square feet. There is a space ten feet wide in front of the cows which gives plenty of room for machinery or wagons. There is a driveway twelve feet wide where you can drive in to unload hay by the aid of a circular track. There is a stable room for fourteen horses and fifteen milk cows, and a grain bin. Ankeny, Iowa. Wm. Lentz.

Ring a Bull.

To the Editor of The Homestead:

To put a ring in a bull's nose put a stout leather halter on him, tie him to a post and put a surcingle around him just behind his front legs (a rope or hitching strap will do). Tie a small rope about twenty feet long into the ring of halter—a good, stout harness line will do if you don't have a rope. Now take a good, stout rope twenty or thirty feet long and put around bull's body in front of his hips, in a slip knot, pass back between his hind legs and two men pull on rope until he sits down or falls over. When he comes down untie halter rope from post and take small, long rope and pass it under surcingle, pulling bull's head back onto his shoulders. Put the rope under bull's tail, pass back along body and under surcingle again and

Vernie Lemen, nine years, sire Victor Mysie of Shadeland, L. Shugart, Red Mary, nine years, sire Ancient Hero, Henry Wiles, Council Bluffs, Iowa	95.00
	125.00

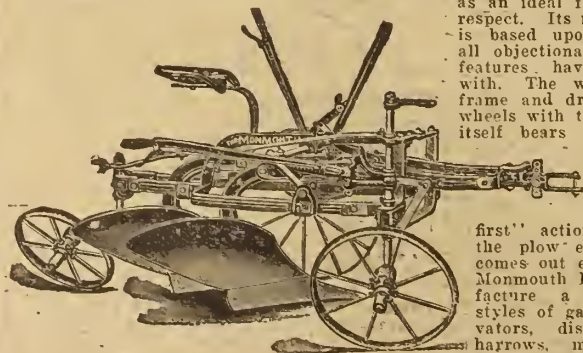
MALES.

Roan Baron, one year, sire Scotch Baron, Sam Shirkel, Council Bluffs, Iowa	100.00
Butterfly Magenta, three years, sire Imp. Magenta, Joe Nansil, Forest Cruickshank, one year, sire Imp. Magenta, B. F. French, Honey	77.50

seasons, and at the same time do as good or better work. Mr. Dunlap, a practical Iowa farmer, realized this to the extent of going into a series of experiments which resulted in the creation of the Champion Pulverizer, by which he was able to do his harrowing and plowing at the same time. This machine is now manufactured and sold by the Union Transfer Company, Box A, Dubuque, Iowa. It has been tested and tried in fields of every sort and description and has been found to do its work perfectly in every instance, no matter what the soil. The machine is guaranteed not to clog, to add no appreciable size

THE MONMOUTH PLOW.

It remained for the Monmouth Plow Company to demonstrate that a gang plow might be produced which was light in draft. The Monmouth plow stands as an ideal for all of them in this respect. Its mechanical construction is based upon scientific principles, all objectionable and unnecessary features having been done away with. The weight of the plow frame and driver is carried on the wheels with the result that the plow itself bears no other burden than



that of turning the furrow. It has a direct beam hitch, single ball and horse lift, and a "point first" action, which means that the plow enters the ground and comes out easily and quickly. The Monmouth Plow Company manufacture a number of different styles of gang and sulky cultivators, disk harrows, spike-tooth harrows, manure spreaders and other implements as noted in the big advertisement on page 5. They sell their goods direct to the farmer and are glad to send them on thirty days' trial, which in itself is as good an endorsement as anyone could ask for. For additional particulars concerning this guarantee write to the Monmouth Plow Company, 115 South Main St., Monmouth, Ill.

Get 10 Bushels More Oats Per Acre Using The New Peoria Drill

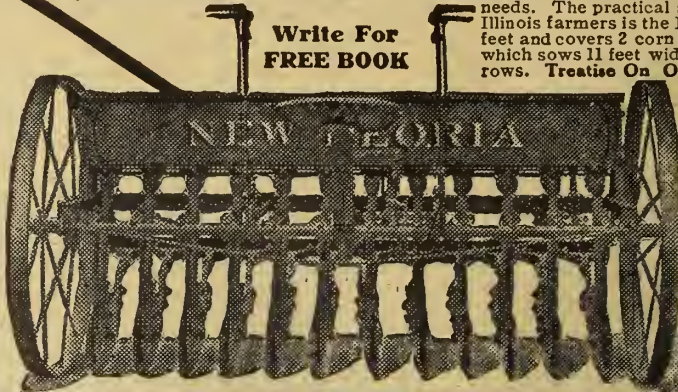
You can get these results, and with a saving of one-third on the Seed, because our disc deposits all the seed in the furrow and properly covers it. No seed is left on top, subject to the weather or for the birds to pick up. Every seed sown by the Peoria Drill counts. Send for the proofs.

The Peoria is equally superior to all others in time and labor-saving features. It has two levers instead of only one, making it extremely easy for driver to handle. Levers are handy to the seat, making regulation of depth so simple that a boy can operate the Peoria with ease. It is the only drill with a drop frame, making it the strongest and simplest made. Has fewer parts than any other. We guarantee to furnish free any disc bearings that wear out.

High Wheels—Light Draft—Double-Run Feed—Sows all Varieties of Small Grain; Also Corn, Peas, Beans, etc., Without Injury To Seed.

Other drills have wheels 42 inches or 44 inches high. Ours are 48 inches, with long hub and wide tires. Means easiest pull. Made in 18 sizes—one for every man's needs. The practical size for Iowa and Illinois farmers is the 12-7, which sows 7 feet and covers 2 corn rows; or the 18-7, which sows 11 feet wide, covering 3 corn rows. Treatise On Oats Raising—Free.

Write For FREE BOOK



Send postal now for this valuable book, also catalog of Peoria Drills and opinions from men who know by experience what this drill will do. Address

Peoria Drill & Seeder Co.
2434 N. Perry Street.
PEORIA, ILL.

LANDS AND HOMES FOR SALE

Sacrifice Sale

ILLINOIS FARM of 320 acres, or divided into 160-acre farms. Rich bottom land; does not overflow; close to market. This land must be sold soon. A fine opportunity for investment; small amount cash. Address the owner.

A. M. HANSEN - FULTON, ILLINOIS.

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address

The Allen Co. Investment Co., Longton, Kan.

IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advance so rapidly in price. Illustrated literature. Write today. Eugene T. Thomson, Crawford Block, Sedalia, Missouri.

SOUTH DAKOTA

FARMERS AND RENTERS—Why not secure one of my farms in Stanley county at \$15 per acre or in Hand county at \$30 before the price has advanced in the spring? JAV P. MORRILL, Palace Building, Minneapolis, Minnesota.

IRRIGATED LANDS In Colorado, under perfect ditch system. Unsurpassed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R. R. Superior local and foreign market. In tracts from 5 to 1,000 acres, at \$100 and up. ORDWAY LAND CO., ORDWAY, COLO.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Virginia Farms and Homes

FREE CATALOG OF SLENDID BARGAINS. R. B. CHAFFIN & CO., Inc., Richmond, Va.

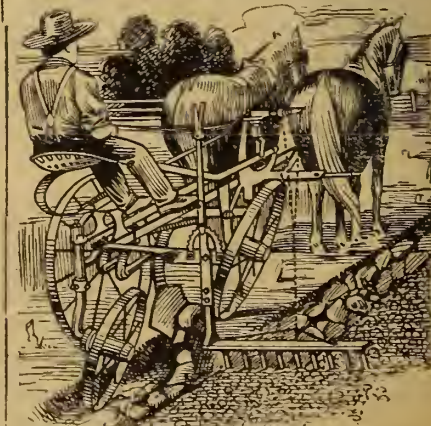
100,000 Fruit, Dairy and Poultry Farms in Missouri

\$2.50 per acre and up. For full particulars ask Mo. State Immigration Commission, Springfield, Mo.

800 ACRES well improved land, Britton, S. D.

Sacrifice sale, \$30 per acre; also 1/4 section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

draft and to leave the soil in perfect condition for seeding without any further preparation. This company guarantee to make good any part that proves defective through material or workmanship, and will also refund money to any farmer who finds that the implement does not do all they claim for it.



Their printed matter is well worth reading and should be secured by every farmer who realizes the value of saving time during the plowing seasons. Their advertisement is found on page 33 of this issue.

LANDS AND HOMES FOR SALE

Colorado Irrigated Land

22,000 acres of irrigated Government land in Southeastern Colorado has recently been opened for entry under the provisions of the Carey act. The State of Colorado has contracted with the Two Buttes Irrigation and Reservoir Company to construct the irrigation works for the reclamation of this tract of land, which is located in Baca and Prowers counties, close to Rocky Ford and other proven districts. Water rights are of incontestable priority and title to land comes direct from the State.

Price of Land 50 Cents Per Acre Perpetual Water Right \$35 Per Acre

Payable \$5.25 per acre cash, balance in ten annual payments. The tract is nearer Kansas City and Mississippi Valley markets than any other Carey act project. Land free from brush and stone, and soil will average 50 feet in depth. Altitude, 4,050 feet; climate, best in State; rainfall 16 inches; crops, all grains, alfalfa, sugar beets, vegetables and fruit; no alkali. Local markets for everything. No agents employed and no commissions paid. Farmers wanted, not speculators. For particulars write,

THE TWO BUTTES IRRIGATION AND RESERVOIR CO., LAMAR, COLORADO.

We Want YOU

We want a good, live man to handle real estate and loans in your vicinity. Farmers make the best real estate men. You can make more money selling farms than farming them.

We Pay BIG Commissions

and start you right. We train you from the beginning so you can assist us in handling real estate and loan deals, and to become independent. You don't have to move to town. Work Saturdays. Write for our FREE Book today. NOW.

MORDEN LAND & LOAN CO.,
Instruction Department,
538 Palace Bldg., Minneapolis, Minn.

LAND OPENING!

The beautiful Jaritas Valley in New Mexico is opening for settlement.

4,000 acres of fine, smooth, IRRIGATED land; every acre within four miles of El Paso & Southwestern Railway. Deep, loamy soil; abundant water; fine climate; reasonable price; easy terms. Water for 1910 crop.

The Jaritas Valley lies close to the Colorado and Oklahoma State lines.

Write today for FREE particulars, map, rates, etc., to

THE JARITAS VALLEY LAND BOARD,
Midland Building, Kansas City, Mo.

302 ACRES FINE BUILDINGS EASTERN KANSAS \$7,500

WE acquired recently a 302-acre farm in Elk Co., Kansas, which we are anxious to sell before the 1910 lease takes effect. March 1st. We have been holding it at \$9,000, but will sell at \$7,500, 1/2 cash with deed, or 1/2 cash with contract. 1/2 is tillable and has firm pasture with unusually fine water supply. Buildings extra good and worth \$2,000. Write for full particulars. Inland Security Company, 1110 Commerce Bldg., Kansas City, Missouri.

BEST OF ALL

FREE government land now open in the richest of the west. Grand River Valley, Colorado and Utah, is world famous—such is the richness of its silt-laden soil. Wealth of farmers is indisputable evidence. Highest priced land in the world is in this valley. An Iowa colony is forming. Yourself and your son, will never face another opportunity like this. You can obtain free information from JOHN B. MCCARTY LAND CO., IMMIGRATION AGENTS, 611 Clapp Block, DES MOINES, IOWA.

Improved Kansas Farm

160 ACRES; 3 miles of Wellington, county seat of Sumner County, a live town of 8,000; 100 acres in cultivation; 30 acres alfalfa; 30 acres wheat; 60 acres grass, clover and dark sandy loam; fine orchard; good 7-room frame home; cistern and two good wells; hog and chicken houses; horse barn 40x60; cattle barn 32x90; mail delivery and telephone; school 1/2 mile; a bargain at \$75. Address owner, Riley Plummer, R. F. D., Wellington, Kan.

An Excellent Stock Farm

CONTAINING 330 acres, adapted to blue grass, timothy, clover, corn, wheat, oats and fruits. Good improvements; an abundance of water for stock. Well fenced and cross-fenced with woven wire. Located five miles from Sedalia, Mo. (a city of 20,000 population), and three miles from the Missouri State Fair Grounds. Ideal for blooded stock and general farming. This splendid farm may be had at a bargain. For full description, price and terms, address

C. W. Daugherty, Box 10, Sedalia, Mo.

CHOICE TEXAS PANHANDLE FOR IOWA LAND

WE have some of the choicest land in the heart of Texas Panhandle for cash sale, or will exchange at cash value for Iowa land, income property or merchandise. Can show alfalfa farms worth \$100 per acre near this land. Neighborhood settled with northern farmers. Easy terms for cash. Write today, describing fully what you have.

THE KELLY LAND SYSTEM,
Room H. 17, News Arcade, Des Moines, Iowa.

MUST BE SOLD AT ONCE

ONE of the best breeding ranches in the United States. 900 acres, 450 acres in alfalfa. In Republican Valley, Neb., 4 miles from city of 5,000. Two good residences, breeding barns, elevator, with engine and complete grinding equipment. \$60 per acre, terms to suit. A prize-winning herd of Herefords can be purchased if desired. Owner wishes to retire. Don't write unless you mean business. 219 Main Ave. Bell phone 326. E. J. Mitchell, McCook, Neb.

800-ACRE STOCK AND GRAIN FARM

TWO miles two railroad towns; 2 miles to trolley line; 480 acres rich creek bottom and second bottom; black loam soil; does not grow corn, alfalfa and wheat land; 300 acres fenced hog tight, with good cross-fenced; two sets of improvements; would make two good farms; No. 1 seven-room house; three good barns, good condition, room for 51 head of stock tied; never-failing well, soft water; three water tanks; 84-barrel supply tank; plenty bearing fruit trees; good housed stock scales and stock yards; 20 acres good timber, last a lifetime; never-failing supply natural gas to run all machinery, light and fuel. No. 2 improvements; good seven-room house; good water; good barn; barn 30x40, capacity 3,500 bushels grain, 12 tons hay; oat granary; cow shed; some fruit; one-half section pasture land; 200 acres limestone and 120 acres sand stone; grass; suitable to be made into a good farm; fenced with 4 galvanized wire; hedges, posts one rod apart. The natural gas sold from the 800 acres is \$1,000 cash in advance each year and free fuel for house. 175 acres fine growing wheat. The crops for 1909 will show the real value of this farm. It will be priced on good interest paying basis; one-half cash, balance time if desired, to suit purchaser; low interest; 200 registered cattle; 300 head hogs; all stock priced with or without farm. Want to retire from business. No trades considered. Come and see me.

R. M. DOBSON, OWNER, INDEPENDENCE, KANSAS.

A FARM BARGAIN OF 240 ACRES IN NORTHEAST MISSOURI

THIS farm lies three miles from Kirksville, Mo., the county seat of Adair County. Has a good new 6-room house, good barn and cribs. Six acres of it in orchard, mixed fruits; 40 acres pasture, balance under cultivation. All fenced and cross-fenced. For further particulars, address

Owner, ISAAC A. NOVINGER, KIRKSVILLE, MO.

WHAT'S THE MATTER WITH KANSAS?

F. D. Coburn, Secretary of Agriculture, says:—"This year (1909) Kansas produced in farm products and live stock, over \$32 Million dollars worth. The U. S. Government report (December 10th) estimates that Kansas will raise 112 Million bushels of wheat in 1910. This is 60 Million bushels more than the highest estimate of any other state in the Union."

We have nearly 100,000 acres in Hamilton and Greeley Counties, in the wheat, alfalfa and broom corn belt of Kansas, that we are selling from \$10 to \$17.50 per acre in tracts of 160 acres and up, on 5 years' time. Our land is near Syracuse, Kansas—only one night's ride from Kansas City—six hours from Wichita. Write us for particulars.

JACKSON REALTY COMPANY (owners), 113 Gibraltar Building, KANSAS CITY, MO

IOWA CORN LAND

FOR SALE—320 acres all level farm land, 2 1/2 miles from good town; 8-room house; good barn; two cribs; cattle shed; hog shed; two windmills and tanks; 20 acres fenced hog tight; close to school; 100 acres now in winter wheat; leased for 1910 for 1/2 small grain and two-fifths corn delivered. Price \$90 per acre. This is a big "snap" come and see it. Write for complete list and maps. C. A. Caldwell, Onawa, Ia.

NEBRASKA LANDS

DON'T you want land at \$25 to \$75 per acre, in the Corn Belt, combined with alfalfa, which produces the world's supply of the meat and cereal (non-perishable) products? Now is the time to buy at right prices. We guarantee satisfaction, after 25 years in Farnas Co., Neb. Write us for information. **PIONEER LAND CO., CAMBRIDGE, NEB.**

WESTERN CANADA

Prof. Shaw, Well-Known Agriculturist, Says:

"I would sooner raise cattle in Western Canada than in the corn belt of the United States. Food is cheaper and climate better for the purpose. Your market will improve faster than your farmers will produce the supplies. Wheat can be grown up to the 60th parallel (500 miles north of the International boundary). Your vacant land will be taken at a rate beyond present conception. We have enough people in the United States alone who want homes to take up this land." Nearly

70,000 Americans will enter and make their homes in Western Canada this year. 1909 produced another large crop of wheat, oats and barley. In addition to which the cattle exports was an immense item.

Cattle raising, dairying, mixed farming and grain growing in the provinces of Manitoba, Saskatchewan and Alberta. Adaptable soil, healthful climate, splendid schools and churches, and good railroads. For settlers' rates, descriptive literature, "Last Best West," how to reach the country and other particulars, write to Sup't of Immigration, Ottawa, Can., or to the Canadian Government Agent.

W. V. Bennett, Bee Building,
Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.

(Use address nearest you.) (6)

Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana in Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit; truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops. **NO IRRIGATION SCHEME**, 60 inches annual rain fall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. **J. D. LaBRIE, Gen'l Land Agent Pineland Mfg. Co.,** 533 Keith & Perry Bldg., Kansas City, Mo.

MINNESOTA

WELL IMPROVED FARMS FOR RENT
OWNER RECEIVING ONE-THIRD CROP

For further information, address
GEO. WELSH, Commission of Immigration,
Dept. N, State Capitol, St. Paul, Minnesota.

Own An Ozark Orchard

The Land of the Big Red Apple

Here one big crop of apples, peaches, grapes, strawberries or cantaloupes yields a profit as great as you could possibly make in 10 years on the same number of acres on your farm. Ten acres of this land will give you a good income—and the increase in the value of your land will make you absolutely independent. It

Is the Best Place on Earth

—to increase your savings manifold—and with absolute safety. If you are anxious to share the magical prosperity that has come to "The land of the Big Red Apple"—if you are anxious to exchange the uncertainties of the average farm profits or the slavery of a "job" for the big, sure profits of Ozark Orchards, now is the time for you to claim some of this land—

For YOU to Make a Fortune

Schools, Churches, Stores, Etc.

The town of Goodman is growing very rapidly and is adequately supplied with church privileges. There are a number of stores and a good hotel. There has been recently completed a new school building which is a credit to any town of its size. The new Joplin and Bentonville Electric R. R. already surveyed, will make a junction point of Goodman and afford cheap transportation to Joplin.

There's Big Money in Poultry

Poultry is not only a source of great profit in the Ozarks, but is an absolute necessity in every orchard anywhere and makes an ideal, profitable combination with fruit.

An Opportunity for Your Children

Perhaps you are wedded to the old farm, and no matter how alluring the prospects, could not break away from the old ties—but how about that son of yours? You have been intending to give him a start in life. Here is the opportunity—the chance of a lifetime for him to be absolutely independent and prosperous. One good map of apples, peaches, grapes, strawberries, cantaloupes or tomatoes will produce a profit as great as you can make in ten years in the corn belt.

These Orchards Will Pay for Themselves

Here is the opportunity of a life time—one that you cannot afford to miss. You can buy one of these orchards on small payments, and after you have made your first payment the large profits to be derived from fruit and vegetable growing, and poultry raising will afford you a good living and meet the payments on your orchard as well.

Send us your name and address on the Free Information Coupon below and we will send you our illustrated, free book—"Profit in Ozark Orchards." It is full of illustrations that show fruit growing industry and facts about the enormous profits that will surprise and delight you. We will also send you our bulletins and the actual testimony from men who are making big profits from Ozark Orchards. The idea of a farm life—the most profitable farm life is that led by the orchardist. If you want a home and independence in the beautiful Ozarks—if you want an investment that cannot fail you, send this

Free Information Coupon

James E. Welsh Realty & Loan Co., Ozark Dept., 219
Finance Building, Kansas City, Mo.

Please send me free book, maps and details of your Ozark Orchard Lands offer. I want to know about your easy payment plan.

Name.....

Street.....

City.....State.....

ADVERTISING NOTES.

Mr. J. O. Winship, of Putnam, Ill., advertises on page 13 that he has for sale leading varieties of northern-grown, fire-dried seed corn. He prepaies freight and guarantees satisfactory seed corn. For circulars and prices write to the address given above.

Every farmer who raises strawberries, and every farmer ought to raise them, will find it profitable to turn to the advertisement of the Wildhagen Strawberry Beds, of Waterloo, Iowa, which appears on page 13. In this advertisement a special offer is made to send 250 strawberry plants for \$1 from a choice of the varieties named. A handsomely-illustrated strawberry book will also be sent to readers of The Homestead by writing to the address named in the advertisement.

The necessity for good seed is one that every farmer recognizes. The advertisement of Messrs. Aye Bros., on page 12, will be of interest to those who want to buy seed oats. These gentlemen are offering pure Kherson oats guaranteed to be good, treated for smut and of a sort which does not lodge nor rust. These oats are sold at the rate of \$1 for a single bushel, or a still lower rate if additional quantities are taken. As the supply is somewhat limited readers will do well to get in their orders at once. Send to Messrs. Aye Bros., Second street, Blair, Neb.

The advertisement of Visio, the wonderful discovery by which diseases of the eye in horses are successfully treated, will be found on page 21. This remedy is an absolute cure for moon blindness, cataract or other eye troubles of horses. It is a guaranteed preparation and can be manufactured by no others than the proprietors named in the advertisement. It is sold at a price of \$2 per bottle with a guarantee that the money will be refunded if it fails to effect a cure. Send that amount to the Visio Remedy Association, Department D, 1933 Wabash Ave., Chicago, Ill.

DOUBLE EFFICIENCY GASOLINE ENGINES.

The idea of economizing labor has become such an essential factor in the profitable conduct of the farm that the gasoline engine is now being utilized for almost every conceivable purpose which demands power. As the result, makers of gasoline engines find themselves swamped with orders. Among those who have been favored with wonderfully liberal demands for their engines is the Fuller & Johnson Manufacturing Company, of Madison, Wis. The advertisement of this engine will be found on page 7 of this paper. The splendid patronage which has been accorded to this company is only a matter of justice, as the Fuller & Johnson farm engine has demonstrated its merits along all the lines that call for power and under every possible circumstance. This farm pump engine is the original small engine to be used as a competitor to the windmill and it has proven that it is fully as economical and much more adaptable under every possible condition: this engine is entirely different in its design from any other pumping engine made, being a complete and portable power plant that does not require belts, pump jackets, arms, anchor posts or special platform. It may be attached direct to any pump standard and will out-pump any windmill, working either in deep or shallow wells with equally satisfactory results. It is a non-freezing engine and will run out of doors all winter long if supplied with fuel and oil. The exhibit of the Fuller & Johnson engines at the various state fairs attracted wide attention and brought about such added volume of trade that it became necessary for the company to provide additional factory facilities. Equally as important in the line of engines are the Fuller & Johnson double efficiency engines. These are built in seven sizes, either stationary or mounted on steel trucks. They have the famous open water jacket which does away with the long lines of piping, spraying devices, stop cocks,

and other trouble makers commonly found on most gasoline engines. However, the points of superiority of the engines of this make are so many and so effective that we urge our readers who contemplate purchasing engines to write them for descriptive circulars and price lists. These will give the desirable points and explain why the Fuller & Johnson is the best engine on earth. Write for it to Fuller & Johnson Manufacturing Company, 659 Main St., Madison, Wis.

BUY BETTER SEEDS.

Everybody interested in larger and better crops of vegetables, potatoes, grain and corn should make calculations as to his requirements in seeds at once and should secure his supply as much as possible direct from the seed growers. The Farmer Seed & Nursery Company, 336 8th Ave., Faribault, Minn., whose advertisement appears on page 13, have made it their specialty for the last nineteen years to produce improved and new varieties of vegetables, grain, corn and potatoes from carefully selected seed stock. On their Faribault seed farms many new varieties have been originated which have become standard market sorts. Such carefully northern-grown seeds insure, in the first place, the best vitality, an early maturity and a large typical crop, which satisfies the most critical market gardener and farmer.

A SILO BOOK.

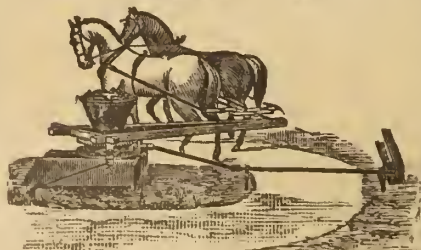
While traveling on a train the other day the writer overheard a farmer say that another year he would not be caught with a shortage of feed as he had been this fall. He planned, he said, to erect a good big silo and fill it up and then cut and shred the rest of his corn. The silo question is one that ought to interest every farmer, not only because it furnishes feed in plenty, but for the additional and more forceful reason that it furnishes it in the best possible condition and at the minimum of cost. The silage is fed with practically no loss whatever. Our friend who contemplated both silage and shredded corn would suffer a loss on the latter variety of feed which would not occur with the silage. We wish there were space at our command to go into detail on the many points in favor of the silo. However, we can perhaps do as well by referring our readers to the advertisement of the Severance Tank & Silo Company, which appears on page 17. This company have prepared a silo book which gives information on every point on which anyone is likely to ask a question with reference to a silo or silage. It has been prepared by a gentleman with extended experience who handles his subject in an entertaining manner. This book may be had free of charge by every reader of this paper who writes for it to the Severance Tank & Silo Company, Dept. 312, Lansing, Mich.

NINETY-THREE ACRES OF AUTOMOBILES.

That looks like a pretty big crop, and it is, too, but it represents the amount of space taken up by the factory which makes the new Rambler automobile, as advertised on page 3 of this issue. The advertisement illustrates some of the joys that come to the owner of a Rambler who, when the day's tasks are over in the warm summer time, can take to the road and enjoy himself in the most pleasant possible manner. There is certainly no greater pleasure than an evening's ride on country roads. The Rambler adds to the pleasure; it has no superior as an automobile while it has all the advantages of the best of them. For the use of the farmer who wants strength, durability, simplicity and effectiveness it stands head and shoulders above all others and in a class by itself. The Rambler in its superiority is set forth in the handsome new Rambler catalog that has just been issued and will be sent free of charge to those who write for it, addressing Thomas B. Jeffery & Co., Kenosha, Wis. The Rambler is not a high-priced machine, nor yet is it a low-priced one. Like any other farm machine it must be made of good materials and the workmanship must be of the proper sort. These points cannot be secured in the lowest-priced machines. Quality and price together is the mainspring of the whole business. Do not overlook writing for this catalog at once.

TRIPLE-GEARED FEED GRINDER.

The engraving herewith presented shows the Ditto Triple-Geared Feed Grinder in operation. The Ditto grinder has numerous advantages that commend it. It has a triple gearing which adds to the rapidity with which it grinds, a double cut that in addition to force feed adds to the perfection of the grind and ball bearings that make it light running. These points, however, are all described in Mr. Ditto's book which is sent free of charge to readers of this paper who ask for it, writing to Mr. G. M. Ditto, Box 12, Joliet, Ill. A good many of these grinders have been sold in the past and almost invariably to the satisfaction of



the buyer. Mr. John Gemnebeck, of Kokomo, Ind., bought one and wrote concerning it saying: "The grinder is just as it was recommended and is the easiest runner I have ever hitched to, though I have tried several. It is one of the fastest grinders I ever saw on corn and cob." Another buyer, Mr. Will P. Green, of Mt. Vernon, Ohio, wrote concerning his mill, saying: "The mill I purchased about one year ago is still on deck and doing splendid service. I am this winter grinding for 200 sheep and a dozen cattle and it does not take much of my time to furnish 'the goods' for them. The Ditto is all that is claimed for it." As noted in the advertisement on page 8, the Ditto machine is sent to readers of this paper on approval and may be returned without any expense if it does not



DON'T BUY TWO ENGINES

To get one you can use, take time to investigate

The "New-Way" AIR-COOLED

The only one that can be used anywhere for any work without the nuisance of water. No tanks; nothing to freeze. Write us for Catalog No. S.

15 Ash St.

The "New-Way" MOTOR COMPANY
LANSING, MICHIGAN, U.S.A.

15 Ash St.



FOR ALL WORK



LET US MAKE YOU A COAT OR ROBE

Nothing warmer or more serviceable than a Fur Coat or Robe made from a horse or cow hide. Don't pay \$20 to \$30 for a Fur Coat when you can have one made from your own material for one-half that amount.

SHIP YOUR COW OR HORSE HIDE TO US

We will guarantee when you see the finished product and realize the comfort and satisfaction it will give you, that you will not part with it for many times the cost.

WRITE FOR BOOKLET TODAY, GIVING FULL INFORMATION, PRICES, ETC.
COWNIE TANNING CO., 100 Second St., Des Moines, Iowa.



WOOL

If you want the HIGHEST PRICES for
Furs and Wool, write to me today for
Price Lists and Special Information.

HERMAN REEL, Milwaukee, Wis.

FURS

prove satisfactory. Write for their book to the address given above.

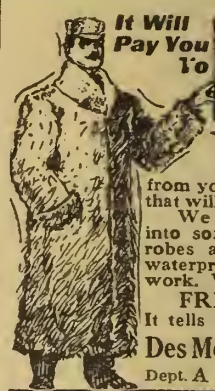
A NOTABLE FLOW IMPROVEMENT.

It is a pleasure to call the attention of our readers to the advertisement of the Rock Island Plow Company, which occupies page 56 of this paper. The Rock Island Plow Company is one of the older plow and implement manufacturers of the West. Its products have been popular in all lines and it is, therefore, a matter of considerable importance to learn that it has succeeded in producing a wonderful invention which promises to revolutionize the plow business of the world. Ever since plows have been made manufacturers have experimented with the view of producing a plow bottom which should be suitable for all kinds of work in all kinds of soil and under all kinds of conditions. So trying have these experiments been that most manufacturers have long ago given them up. The Rock Island Plow Company, however, expended its best thought on the subject and today they can boast of having solved a problem which has stalled the whole plow-making world. The advertisement gives a lot of details with reference to this universal plow bottom. It shows that one single plow will turn over sod without kinking, turn under stubble of any kind, and not leave a lot of trash showing, turn under corn stalks with the same perfection, turn a furrow two inches deep and cover the sod, stubble or corn stalks perfectly, or turn a furrow eight inches deep under the same conditions, equally as well. Every farmer knows the difficulties that would follow undertaking to do this work with the ordinary plow. We would not blame them for feeling somewhat suspicious as to this proposition, but when the manufacturers make their statement so positive and offer to back it up by an actual trial it looks like there was no doubt on the question. The Rock Island Plow Company have been known to the writer for more than a quarter of a century. It is a responsible concern and one which has never been known to make a statement with reference to its goods which could not be fully substantiated. We, therefore, have no hesitation in recommending the new plow to our readers. See the advertisement on page 56 and write for any additional information that may be required. Address the Rock Island Plow Company, Rock Island, Ill.

A REAL ESTATE BARGAIN.

Those of our readers looking for farm or ranch bargains should not fail to look over the advertisement of Mr. R. M. Dobson, of Independence, Kan. It will be found on page 23. The 800-acre stock and grain farm Mr. Dobson wishes to sell is his home farm, one that he has taken great pains in bringing to its present state of perfection, and is a farm that would be very hard to duplicate in productiveness and completeness for much more money than Mr. Dobson asks for this farm. The fences and cross fences dividing the broad acres surrounding the farm improvements, form forty to sixty-five-acre fields and pastures, each of which is watered with never-failing natural water. Fifty bushels of corn to the acre is not considered a big yield on this farm. Wheat runs from twenty to thirty bushels and the 175 acres now growing on the farm looks fine. The main pasture is native blue-stem prairie grass. The location, shipping facilities, the natural gas and the mild climate of south Kansas make this a desirable section of the country in which to live and farm. Mr. Dobson is a cattle man and a farmer and is not in the real estate business. The farm is stocked with pure-bred Hereford cattle representing the blood of some of the most noted bulls of the breed. The 200 head show that Mr. Dobson knows the cattle business, as the herd is first class. It would be priced right to the buyer of the ranch if they so desired, otherwise Mr. Dobson would sell it at auction. The improvements are in good condition. The buildings Mr. Dobson puts up are built right, so that they will stand a life time. The natural gas from which the \$1,000 per year is received does not detract from the farming value, as only one well has ever been sunk on the farm. Note that Mr. Dobson says he will sell the farm on a good interest-paying basis. It could be divided so as to make two farms, and not detract any from the value on account of the division. He says come and see the farm, look it over thoroughly, look over the surrounding country and be convinced that this is a great bargain. Mr. Dobson has no children; his wife is not well, and he wants to retire. These are his only reasons for offering this fine farm.

Ask your neighbor to subscribe for The Homestead.



It Will Pay You To Ship Us Your HIDES

YOU can have a warm, serviceable fur coat made from your cow or horse hide that will wear you for years. We tan and make them up into soft and pliable coats, robes and rugs, moth and waterproof and guarantee the work. Write us today for our FREE BOOKLET. It tells you all about hides. Des Moines Tanning Co., Dept. A Des Moines, Iowa.



We Want a Local FUR BUYER In Every Locality

Will make you a guaranteed price and take your furs straight. Write us for information. Price lists to trappers.

Pember's Hide and Fur House
Drawer 5, ONAWA, IOWA.

Ship Us Your Hides

WE are tanners of cattle and horse hides. Make Coats double-breasted with braid down the front, best quality of quilted lining, bar buttons and cord. for \$8; tanning included for \$12.50. Line robes with A No. 1 wool plush for \$4; tanning and lining complete for \$8.50; and guarantee all our work. Write for free price list, booklet and shipping tags. GLOBE TANNING & MFG. CO. 222 S. E. 1st St., DES MOINES, IOWA.

SHIP YOUR HIDES & FURS

direct to Biggs & Koch and you will get the highest prices and have all commissions. A square deal and quick returns. Full weights and honest grading. One hide, one skin or a car load. No matter whether you are a trader or trapper, farmer or dealer we can do you good and make you money. It will pay you to write us for price list and FREE shipping tags. Fur shipments held separate on request, and your furs back if our returns are not O. K. "Trappers Guide" free to shippers. Write today for catalogue of Trappers Supplies. BIGGS & KOCH, 954 Liberty St., Kansas City, Mo. Largest hide and fur house in Southwest. Estab. 1882.

SHIP YOUR FURS HIDES and PELTS

To McMILLAN FUR & WOOL CO. MINNEAPOLIS, MINN. Illustrated Circular Free to anyone interested in RAW FURS. Trappers' Guide Free to those who ship to us.

WANTED

TENANT with college education to open and take charge of farm in North Dakota. For particulars call or write to F. J. BAKER, 173 Western Avenue, Minneapolis, Minn.

Sell Your Fur In The East

Send your fur where it will bring the most money. The East is the raw fur center. The East is the heart of the raw fur trade, pumping its life blood of dollars all over the world where furs are caught. This paper is full of advertisements from Western fur buyers. But they ALL sell to Eastern dealers. It makes no difference what they say—we repeat it: THEY ALL SELL THEIR FUR TO EASTERN DEALERS. We are here in the East. We are in a small town; we have small expenses. We are within a few miles of New York City and the border of Canada—the world's greatest fur markets. Your bank in your own town will tell you we are reliable. Send today—now—for our big free trappers' guide, catalog and fur report. This is different from anything you ever saw. And it costs you nothing but the price of a two-cent stamp to put on your letter.

Corry Hide & Fur Co.,

P. O. Box No. 6827 Corry, Penn.



Let Us Tan Your Hides

At small cost you can have warm, durable Fur Robes, Coats and Mittens for all the family. Honest work at living prices. Write to us. See what our patrons say. Don't make a mistake in selecting your Tannery. Solid harness leather from your skins at little cost. Highest market price paid for hides.

TAN HIDES

SEND us your hides and we will tan them and make your robes, coats, mittens or rugs. All work guaranteed. Water soft and mott proof. Cash paid for hides and furs. Sioux Falls Robe & Tanning Co., Sioux Falls, So. Dakota.



Let The Galloway Do The Work

I Trust
You to
Make

30
Days'
Free
Trial

To Prove
Its High
Quality



Sell Your Poorest Horse and Buy a 5-Horsepower Galloway Engine only \$119⁵⁰

YOU'LL make the best use of your time for a moment right now if you'll "Write to Galloway" and send him your name. Use the coupon below or a letter or a postal card—just the easiest way possible—and let Galloway do the rest. I'm right here at my factory, now, with the biggest Special Gasoline Engine Proposition to make you that anybody in this country can make. Don't think of buying any kind of an engine until you get a chance to hear from me and see my Big, New, Illustrated Gasoline Engine Book. It's the most reliable Power Book ever published for Farmers. All about Engines, Prices and how to get just the engine you've been looking for and practically have it pay for itself within a year. It's only up to you. I'll tell you how when you write me.

NOTE The Galloway Line Engines Run from
2 to 22-Horsepower, and
**Save You \$50 to \$300
On Direct Prices**

How Galloway Engines Save and Make You Money

1. On the Farm—Power for so many kinds of work that they practically save a big share of your hardest labor—and solve the "hired help" problem most of the year.
 2. Cream Separator—Run it twice a day or 730 times a year. Think that over for the woman's sake and your own.
 3. Churning—Saves all the hard work.
 4. Washing Machine—Every week—it saves the Woman's work.
 5. Grindstone—Saves one man's time turning.
 6. Shelling, Shredding and Feed Cutting, besides running the Fanning Mill, etc., etc.
 7. The Elevator and Silo—Galloway furnishes the power.
 8. Sawing Wood—See Galloway's outfit and description at the right, here.
 9. Pumping—Power instead of "back-water" or the windmill—no matter where your water comes from, you will thank Galloway for this suggestion.
 10. Spraying Machines—Cheapest and handiest way to run them.
 11. Many Other Ways—Explained on pages 10 and 11 and all through my Big, Free Gasoline Engine Book—free to you if you send your name to Galloway. Do that right away and see about them—with hundreds of illustrations from farms and factory. Write today.
 12. Grinding—Are you paying toll to some other man—why not buy a Galloway and grind all your own feed? You'll be astonished to see how much you have been losing.
- Write Galloway—That's the best use you can make of your time right now while it's on your mind.

My Personal Statement

Most Dependable—Simple and Easy to Run Engine
Ever Made, and I Save You from \$50.00 to \$300.00
According to What Horsepower You Want

YOU take my 30-Day-Free-Trial Offer on any size Galloway Engine and you'll say that it is just the engine you have been wanting and looking for—or I'll take it back. My promise is good.

I guarantee any Galloway Engine to be as good or better than any engine costing double my price, or take it back. You to be the sole judge. Now is just the right time to take your trial.

I promise you that you'll be satisfied, or I pay the freight both ways and the trial don't cost you a dollar.

No Experience Needed to Run the Galloway

You don't have to be an engineer. You don't have to take lessons. Any man can do the only four things necessary to start a Galloway. (That's why it has all the others beat—no "frills" at all.) Comes all ready—complete to start working with. You just—1. Turn on the gasoline. 2. Turn on the oil. 3. Turn on the battery. 4. Give the flywheel a whirl.

That's all. Then she's started, and five horses couldn't do the work my Galloway (style here illustrated) will do—day in and day out, under my

**5-Year Guarantee
To Work for You 365 Days a Year**

Simple and sure. Always ready. Starts instantly. Stopped instantly. Can't do any harm. Can't blow up. No smoke. No steam. No soot, cinders, fire or flame. Perfectly safe. Women or a boy or girl can run it.

Save dealer, jobber and catalogue-house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. I sell them direct to you for less money than some factories can make them at actual shop cost.

All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

**I've Got a Special Proposition to Make to You
Write Me First**

I'll write you personally and make you an offer so your Galloway Engine can pay for itself.

Pick out the Galloway you want to try for 30 Days Free on your work, from my New Gasoline Engine Book for 1910, illustrated in actual full colors. You'll find that my hook will keep you busy thinking—interest you—pay you to read. It's free if you send me your name.

If you haven't got the price in cash right handy now, I'll tell you how you can get a Galloway anyway. Write me—

Wm. Galloway
President

Information You Want To Know

Here's how the other fellow answers your questions. I have hundreds of original letters like these—A lot more also in my Engine Book. Get it.

How About Cold Weather?

My engine came O. K., goes O. K., I like it O. K. and it is O. K. The engine I had last winter, I had a dread of starting it in the morning, but this one is a pleasure, for instead of 1 barrel of water, 2 pails does the job. I advise anyone wishing an engine to try the Galloway as it costs nothing to try according to their terms.

W. P. Jennings, Chippewa Falls, Wis.

Is It Powerful and Economical?

When words cannot express a man's

thoughts he is up against it. I think you have the best engine on the market for the money. It is easy to start; it is simple; it is powerful, and it is a smooth runner. I or no other man knows the worth of an engine till he has used one. I would not think of being without one at any price, and, if I was buying a dozen, they would be Galloways. On the coldest morning, all I have to do is to turn the gasoline on, throw the switch in and turn half over and are gone. My brother used to sell fair engines and he was up to my place. He said my 5-H.P. Galloway beat anything he ever saw. Anybody doubting this testi-

mony, I would be glad to hear from them. E. J. Oliphant, Dodge City, Kans., R. No. 1.

Is It Simple and Easy to Start and Run?

I find the 5-H.P. engine that I purchased from you to be all that you claimed it to be. Without previous experience, I have no trouble in operating it, while several of my neighbors with other makes of engines much higher priced, have to call in experts frequently to put them in order. I certainly would not trade it for any engine I ever saw run.

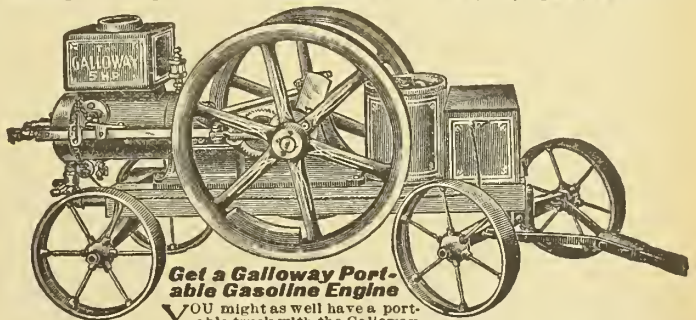
E. Loomis, Gibson, Neb.



Get a Galloway 5-Horsepower Portable Sawing Outfit

WITH this outfit two men can easily saw 25 cords of wood a day at a cost of only about

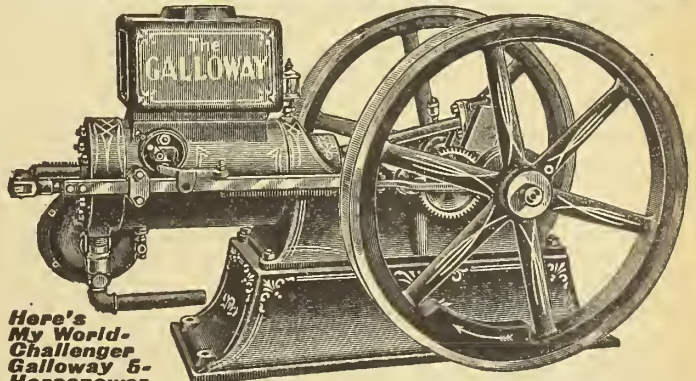
20 cents a cord as compared with \$1 or more a cord if sawed by hand. On this basis you can earn from \$15 to \$30 a day; but if you earned only \$10 a day it would take you less than a month to pay for your complete outfit. Besides that, you'll use your engine permanently on every other kind of work that you want to do—the same as with my regular \$119.50 Galloway 5-horsepower engine shown below. My Great New Free Gasoline Engine Catalog explains all about this complete outfit (Style F, pages 29, 30 and 31).



Get a Galloway Portable Gasoline Engine

YOU might as well have a portable truck with the Galloway.

We make trucks for all sizes of the Galloway Line of Engines from our 2 horsepower up to our 22-horsepower engine, including a truck for our 2-horse power upright engine. The picture shown here is of the Galloway 5-horsepower engine style E on Hand Truck, fully explained on pages 29, 30 and 31 of my big, new, free catalog



Here's
My World-
Challenger
Galloway 5-
Horsepower

Gasoline Engine—Just the Size Most People Want For All Use

THIS is the Famous Galloway Full 5-Horsepower Gasoline Engine—Just the ideal engine for the most purposes—Speed 325 revolutions of the flywheel per minute—Does everything told here on this page under my 5-Year Personal Guarantee—Shipped direct to your station from my factory complete ready to use, as I ship all my engines with gasoline tank, battery box, and can of cylinder oil for you to use and try on your work at my risk for 30 days Free. Try one and you'll want to keep it. But write for my Big, New, Free Gasoline Engine Book—the greatest Engine Book ever published for practical information about gasoline engines and their many practical uses. Write to me personally for free copy of this book at my special proposition to you.

Cut out this coupon and mail to me now!

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Wm. Galloway Company, of America

Authorized Capital, \$3,500,000.00

105 Galloway Station, Waterloo, Iowa

OUR HOME DEPARTMENT

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

Some weeks ago in the With the Editor department I talked about a room the decoration of which offended me. Object lessons in what not to do are well enough in their way, they are indeed necessary occasionally. But, as in the training of a child, it is wiser to say "do" thus and so instead of reiterating "don't," so in the matter of household decoration it is wiser to tell what should be done. And this I propose to do.

For years the usual wall decoration has been paper of one sort or another. Latterly paper is being replaced to a very considerable extent by a new covering called alabastine, which has several advantages over wall paper. It is of decorating with this new material that I wish to speak.

The other day while making some calls I passed through a room where the wall paper had sprung away from the wall in a solid sheet. Below the outer covering there were three or four or five coats of paper which had been covered up because they were soiled. Now, no refined person would think of putting a clean top garment on over soiled under clothing, but we have not yet reached the degree of refinement which objects to clean wall paper which hides a soiled, shabby under paper. Nor, which is more important, have we come to a general recognition of the fact that wall paper, especially dirty wall paper, is a possible menace to health which is not removed by covering it with a clean face.

In case of sickness, where the disease is infectious, and in bathroom or kitchen, at any time, it is easy to see the advantages of an unpapered wall which can be washed off. There are other reasons for preferring alabastine to paper, but perhaps these are sufficient.

It occurs to me I should say what alabastine is before proceeding further. Alabastine is made from alabaster rock, pulverized. Its grains are crystal which when dissolved in cold water form a liquid which applied to the wall becomes part of it. It has been on the market for a number of years, but latterly has an increasing vogue partly from having stood the test of time, partly from the growing desire for sanitary wall decoration, and partly because of its artistic possibilities and the ease with which it can be applied. While alabastine can be applied on old walls if they are free from cracks, or seams to understand fully its desirability one should see

it applied in a new house. When I say a new house, I mean a house recently built, but left undecorated until it shall have settled.

Friends of ours who built a short time ago have decorated their house entirely with alabastine, securing charming effects at slight expense and with comparatively little trouble. The plan they followed was such a good one, that for the benefit of others I propose to talk about it. They had a whole house to decorate, but the detail of their plan could be applied to one room or to a number of rooms.

In the first place, they carefully considered size and exposure and the use to which the room was to be put. They both realized that a color scheme which would be admirable for a big room with a west front would not do at all for a tiny chamber facing north, also that decoration suitable to a dining room could be improved upon for a daughter's bedroom. These were the first considerations, but they were modified by recognition that the wood trimming of the rooms and their rugs and hangings must be carefully borne in mind.

These points decided, they sent for the booklets gotten out by alabastine firms, in order that they might study color schemes and learn just how to apply the powder of whose merits they had heard so much. When the booklets came they were delighted. The directions for use were so simple and the color schemes so really beautiful they lost no time in getting down to the business of deciding what they would have. The mistress had long been wearied of the floral effects and no less objectionable geometrical designs which form the staple of the average stock of wall paper, and she was discouraged by the disposition of medium-priced ingrain papers to fade. She found a solution of all these difficulties in the alabastine booklets. Alabastine comes in sixteen shades which can be mixed so as to form any shade or number of shades desired and the firms handling it supply stencils which offer a large choice of patterns, so that a big field of harmonious, restful and artistic decoration was opened to her.

This house mistress while artistic in her tastes had had no art training and had felt incompetent to decide on the decoration of even one room in the old days when a room required to be papered. To her joy she found color schemes in the booklets for single rooms and connected rooms; not only so, but the details were carefully worked out, showing just what tones should be used to give sense of space, to increase or decrease light and warmth, what was best for large rooms and small rooms, for dark rooms and light rooms. There were many conferences before the matter was settled, but when all was arranged and the plans completed the result was so harmonious and so beautiful that everyone congratulated the owners upon the atmosphere of their rooms.

The admiration of friends and acquaintances was grateful, but, as the mistress of the house said to the master more than once, "The thing that pleases me most is that it is not only beautiful, but can be kept absolutely clean and that doing the work ourselves as we did we had money for several things we could not have dreamed of treating ourselves to had we bought wall paper instead of alabastine."

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

The best portion of a good man's life, His little, nameless, unremembered acts Of kindness and of love.

—Wordsworth.

Happiness, like mercy, is twice blessed; it blesses those who are most intimately associated in it, and it blesses all those who see it, hear it, feel it, touch it, or breathe the same atmosphere.—Kate Douglas Wiggin.

Train your eyes to rest on the brightest spots in life. Pass the darkness on the other side. One of the sunniest places on earth is the spot made sacred by the hallowed influences of those we love in our own homes.

BETTY BRADEEN TO PARENTS.

Too often, when reproving our children, we forget how much their parents are to blame. I cannot help the belief that men and women are much what parents have made them. There is the occasional exception of a bad son and wayward daughter with good parents, and a fine man or woman from bad



Be Safe

Don't wait until your building has been struck by lightning and all in flames before you think of a lightning rod. Be safe and have your buildings all rodged with Hawkeye 98 per cent Pure Copper Cable Lightning Rods.

It May Be Your Turn Next

You can't tell where lightning will strike next. No one knows. Nearly every day in the spring and summer you read of some terrible loss of life and property by lightning. You may be next. There is no choice—it's a serious question and no one can afford to carry his own risk when absolute protection may be had for a small investment.

You Owe It To Yourself

To protect your own life, family, property and stock. Hawkeye Lightning Rods are the best investment of protection you can make. Statistics show there are more and greater losses by lightning every year than railroad wrecks.

Take No Chances

Hawkeye Copper Cable Lightning Rods are 98 per cent pure. Absolutely the strongest and best lightning conductor that can be made. They have stood the test of the most severe electrical storms and have saved farmers millions of dollars. We make all our own copper cable in our own factory and know it is made right.

Our Guarantees Bonded

Where buildings are rodged with the Hawkeye Copper Cable Lightning Rods in conformity to our system we issue a guarantee that such buildings will not be struck by lightning. We are bonded by the Citizens' Savings Bank, of Riverside, Iowa, which guarantees payment of the above guarantee with interest at the rate of six per cent from the time of such payment.

Ask The Agent In Your Town

He will show you why Hawkeye Lightning Rods are best. If we have no agent in your town write us at once. We will make you a splendid proposition. Write today for booklet A.

Hawkeye Lightning Rod Co.,
Riverside, Iowa.

atock, but in the main training tells the story. Too much coddling does not produce self-reliant being and overindulgence will spoil the sweetest temper.

Obedience is not a rule in the household and without it good government is impossible. I never could understand why any mother submitted to a repetition of the disgraceful spectacle of a kicking, screaming child squirming in the dirt—there must be means of curing such habits and I would try them all to find the one that fitted my case, were I similarly placed. I have seen too many high-strung natures tamed down to reason to believe in giving up.

A STARTLING REPORT.

"Our new neighbor throws things at his wife. I saw him throw 'em."
"Do tell! What did he throw at her?"
"Kisses."

ADOPTED.

First Little Girl—"Your papa and mama are not your real parents; they adopted you."

Second Little Girl—"Well, that makes it all the more satisfactory. My parents picked me out and yours had to take you just as you came."

SUGAR-CURED BACON.

Now that "hog-killing time" is again at hand, the following from George B. Ellis, secretary of the Missouri State Board of Agriculture, will be of interest to every farmer who likes sugar-cured meat. Mr. Ellis writes: "For thirty years I have used a method for salting and curing meat that has been very satisfactory, and our meat has been complimented by a great many people who have eaten at our table."

"After the carcasses are cut up, spread the hams, shoulders and sides upon a table or boards in the smoke house, but where they will not freeze—do not pile them up. Rub a little salt on each piece, particularly the hams and shoulders, and let the meat cure out for twenty-four hours to thirty-six hours."

"Then pack closely in a clean barrel and cover with a brine made as follows: Soft water, three gallons; good salt, two pounds; brown sugar or a good quality of sorghum, one pound. Make this proportion a sufficient amount to cover the meat well. The brine should be boiled and skimmed and put on the meat after it is thoroughly cooled. It will require from four to six weeks, owing to the size of the hams, for the meat to be salted properly. The sides require less time—usually four weeks is sufficient for them, but the proper time to take the meat out of the brine can be determined by sampling it."

"For curing I use clean corn cobs or bick-ory and maple wood. I hang the meat in a dark, tight closet made in the coolest corner of the smoke house, from a stove conduct the smoke into the closet through a pipe, thus avoiding too much heat under the meat. It is best to take plenty of time each day, and it will require about three weeks—then the meat should have a nice straw color and be sufficiently cured that it may be immediately sacked and hung back in the same place."

"The butchering should be done early so that the meat may be salted and cured before the warm weather in March sets in."

AMONG OURSELVES.

A few late letters bearing on the subject which has been occupying considerable of our attention for a few weeks past seem so good that it will not do to send them to the wastebasket. We shall present them here at the beginning of the program. First, let us hear from F. H. S. H., whose views are somewhat out of the common:

M. L. H., a young woman asking counsel in a letter of the heart. This is the most important matter of any men and women and so I will give some advice from my own experience. I have been married over twenty years and some years ago I lost my wife by

death. I am afloat on the half century milestone of life and may marry again, providing I find the right partner. Before marriage the main thing is to know each other's character in juxtaposition to one's own character. Some may imagine to love one another and after the marriage ceremony find themselves tied together with a partner who has nothing in character to hold them together, and one may get tired of the other before they really know it. Dancing or no dancing, or other so-called vices of young people have little to do if the two are really in love and have the right character in juxtaposition. There is an easy and sure way to find out if two are suited for each other and this is by the delineation of the own handwriting by a good graphologist. There is also one sure guide for marriage and this is the own intuition. If the own inner voice warns you, if you feel like something dreadful may happen when you think about your marriage, then heed the warning, no matter what your own or others' reason may say about it. Some women's marriage is just like a funeral of their happiness, and just because they go by the reason and neglect of their intuition.

Intuition is all very well, but as a guide in marriage it is not sufficient. The call of the heart should be supplemented by the guidance of the head—if knowledge of the lines of the hand or the bumps of the head give safe material for reasoning upon there can be no objection to them as one cannot be too careful.

Our next letter is from a young wife, now a happy mother, whom many of us knew and loved as Lillie Johnson. Mrs. Johnson-Catlett kindly sent the editor a picture of the baby who is such a happy little fellow that looking into his pictured face one cannot refrain from smiling back. The coming of this baby suggests that since there are many babies Among Ourselves we might have letters on the care and training of babies. This topic is suggested to young mothers and fathers with the hope that it will lead to helpful conference and some helpful letters:

In the Home Department some weeks ago a very good young lady wished to know if she were right in becoming engaged to a young man who dined, played cards and drank some. It seems to me that no one person can judge another by their own standard. The truly broad-minded person makes allowances for environment, individuality, heredity. What is wrong for one person may be perfectly right for another. If we deliberately do anything we ourselves believe wrong then we sin. If we do what we ourselves believe right, but what our next door neighbor believes wrong, we do not sin. How many agree with me? The most serious thing in the list of the man's iniquities is the "drinking." If that has become habitual, then beware! After all, no one can settle the matter but the young lady herself. In closing may I ask if anyone would like to hear about the Sacramento valley—its beauty, its productions, its resources? I guess I am almost the only one Among Ourselves who is a fixture in the Golden West, and green Christmases with roses and sunshine have lost their novelty. I forget that I used to like to hear of this western wonderland when I was a little girl in Iowa. If the Home Department friends would enjoy it, may I describe this western land that I love so completely?

It is quite true that "no one can settle the matter but the young lady herself," but it is to be hoped that hearing a variety of views from a number of persons may help M. L. H. to a more thoughtful consideration of the many-sided problem which presents itself to her. The offer of a

To Stop a Cough In a Hurry.

With this recipe you can make a pint of cough remedy at home in five minutes. A few doses usually conquer the most obstinate cough. Simple as it is, no better remedy can be had at any price.

Put 2½ oz. of Pinex (fifty cents' worth) in a clean pint bottle, and fill up with Granulated Sugar Syrup, made as follows: Take a pint of Granulated Sugar, add ½ pint of warm water and stir for 2 minutes. Take a teaspoonful every one, two or three hours. The taste is very pleasant—children take it willingly. Splendid, too, for colds, chest pains, whooping cough, bronchitis, etc.

Granulated Sugar makes the best syrup. Pinex, as you probably know, is the most valuable concentrated compound of Norway White Pine Extract. None of the weaker pine preparations will take its place. If your druggist hasn't the real Pinex, he can easily get it for you.

Strained honey can be used instead of the syrup, and makes a very fine honey and pine tar cough syrup.

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EDWARD BALCH, 410 Dearborn Ave., Chicago.

letter about California is one we gladly avail ourselves of. We hope it will come soon.

And now, in closing the discussion we shall have some lines brought by R. M. R., whose contribution to the discussion we considered recently:

In speaking of a person's faults,
Pray don't forget your own;
Remember those with houses of glass
Should seldom throw a stone.
If we have nothing else to do
But talk of those who sin,
'Tis better we commence at home,
And from that point begin.

We have no right to judge a man
Until he's fairly tried;
Should we not like his company,
We know the world is wide.
Some have their faults—and who has not?
The old, as well as young;
Perhaps we may, for aught we know,
Have fifty to their one.

I'll tell you of a better plan
And find it works full well,
To try my own defects to cure
Before of others tell;
And though I sometimes bid me let
The faults of others go.

Then let us all when we commence
To slander friend or foe,
Think of the harm one word may do
To those who little know.
Remember curses, something like
Our chickens, "Roost at home;"
Don't speak of others' faults until
We have none of our own.

The lesson of these lines, inculcating as they do a broad charity and consideration for others, is one we cannot heed too seriously. Let us be tender in our judgments and careful of our speech where the failings of others are concerned and so win the consideration we desire for ourselves.

"A Lover of Good Fiction" brings us a study of "The Mill on the Floss" which may serve to introduce some of our readers to the works of George Eliot, whose writings are of a very high order:

"The Mill on the Floss" was the name chosen by Mary Ann Evans, by non-de-plume George Eliot, for her love tragedy. The name was chosen because the main events of the story center around the mill on the Floss. It was written in 1860 with the object of teaching a lesson, and it is located in central England. Her characters are very clearly defined, very natural and in my estimation very interesting. She not only presents the acts of her characters, but presents, also, the motives which prompt their actions. The two leading characters are Maggie and Tom—as vastly different as it is possible for two people to be. The one being bright, handsome, impulsive, high-hearted, musically attuned to all that is beautiful and heroic and mingling in her nature the inexplicable forces which make existence a continuous struggle and externally an ultimate failure. The other, narrow, prejudiced, rigidly upright; subordinating every consideration to that of personal honor and family pride. Someone has made the statement that "Geo. Eliot's works reveal a profound serious student of human life." This is readily proved by the "Mill on the Floss." Take for instance the character of Maggie. How clearly the author portrays the motives that actuate her to go to the gypsies when a child and again when she rows the boat to the aid of those at the mill. And Mrs. Glegg—the author must have studied some such person to have been able to portray her character so vividly, and a great many other instances might be given. The lesson that the author meant to teach, and did teach with great success, may be summed up in these words: "If life did not make duties for us before love comes, love would be a sign that two people ought to belong to each other."

"One of the vivid memories of my young womanhood is of coming upon a sixteen-year-old sister lying in a passion of sobbing beside a volume of

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"The Mill on the Floss" which she had been reading. It is a sad story, but one of the finest pieces of work from the hand of George Eliot. I may add that it has more "story" and is as a consequence more easily read than some of the later Eliot novels.

Books, novels more especially, are a relaxation from the more serious business of life, they should be sandwiched in as it were. And so we will now return to work-day matters again, we shall continue the rug talk begun last week:

Braided rugs can be made at almost no expense and they are pretty and serviceable if the work is neatly done. Some light-colored and faded woolen pieces were colored a rich dark red with some good dye for wool, then they were cut into strips and braided and made into a rug of the desired size. For a square-braided rug, take five strands for the braid and leave three or four inches at the end before commencing, and the braid should be fastened firmly to board or table with strong tacks. Sometimes the braid runs crosswise instead of lengthwise, and when the rug is finished the strips left at each end are cut into fringe, and they must cut very fine. For a square rug take five strands, and each strand can be of a different color, or the outside can be solid and the center mingled, and one can use their own taste in selecting and arranging the colors.

The cultivation of housewifely arts is one of the things we desire to do Among Ourselves. This rug talk should set several of our number to work and perhaps bring us other rug experiences.

A few words about the linen closet

by E. J. C., will close our program for this week:

To be the possessor of a well-arranged and well-filled linen closet is one of the ambitions of every new housekeeper. In cities where the dealers make a point not to carry stock over from one season to another, the semi-annual sales are the best opportunities of replenishing the linen supply. Sheets and pillow cases are still called bed linen, though they are usually made of cotton. Housewives who are too busy to do any unnecessary sewing can buy these articles already made. The sheets should be long enough to tuck under the mattress at each end, and the pillow cases loose enough to slip on and off easily. The pillow case tubing, which may be had in several widths, is the nicest material for that purpose. If you have plenty of time, the hems may be hemstitched. The bolster is seldom used, and its place is taken by a second pair of pillows. Have plenty of towels of a good size. The most serviceable variety is the huck towel, supplemented with Turkish towels for the bathrooms and damask for the bedrooms. There is a wide field for the exercise of taste in the selection of table linen. As it must be washed frequently, the first requisite is durability. Very fine threads break easily and are not suited to hard wear. Unbleached linen is cheaper and wears better than bleached, and will be beautifully white after washing and boiling a few times in a suds made by dissolving a good washing powder in soft hot water. Rinse well and hang smoothly on the line. It is a good idea to have one long cloth for company. Napkins may be plainly hemmed or hemstitched. It is an economy to buy good table linen, for the cheap linen never looks so well nor wears so long as a better grade. Save the ravelings when making up new linen to use in darning the old, and if neatly done, the work will show very little. Pure white is very popular for centerpieces and doilies, but some housewives like the touch of brightness which the embroidery done with colored embroidery silks gives these pieces, and it shows the beautiful work done on them much better.

precepts (number of letters in the Decalogue). Their dialectical skill was especially busy in framing the casuistry of the Sabbath. There was a serious as well as ludicrous side to this excessive legalism. Hebrew pilots dropped the helm on the approach of the Sabbath. Hebrew soldiers allowed themselves to be butchered rather than fight on that day. Jesus crushed these hollow traditions, and showed how the very end sought by the law was lost in them. Jesus made himself "Lord of the Sabbath" in the sense of ridding it of the harnesses of tradition, elevating it, and filling it with life and sanctity. That is a strong picture in which John Fox, Jr., portrays the circuit-rider describing the crucifixion. A gaunt mountaineer rises and interrupts the sermon with the question, "Did he say that 'Father, forgive 'em,' and his mammy a-standin' there an' cryin'?" The preacher answered, "He said that." With long strides the questioner approached the pulpit on which he laid his gun, and then extended his hand to his mortal enemy. So ended the mountain feud. "Be reconciled to thy brother" fell with peculiar power from Jesus' lips. He exemplified what he taught. Tolstoi takes Jesus' words literally, and builds upon them his theory of non-resistance.

DESSMAKING—NO. 61.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Waists that are made with trimming portions of contrasting material are always pretty and attractive and this one is excep-



[6532 Misses' Waist, 14 and 16 Years.]

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson V.—Matthew V., 17-26; 38-48.

January 30, 1910.

Some Laws of the Kingdom.

The traditions, glosses and refinements of the official interpreters of the law were strung like gilded, but empty, beads upon God's Word. The young reforming rabbi, Jesus, of set purpose, shattered these baubles of the scribes and Pharisees. He did so both in action and in speech. But in this he was the friend and not the enemy of the law. His purpose was to sweep it clean of human inventions which had been superimposed upon it. In breaking the traditions he did not break the law. On the contrary he revealed and preserved it. The object of his coming was not to destroy, as his enemies affirmed, but to show in his own life and word how the law could best be kept and fulfilled. Human speech could not in stronger terms affirm the sanctity and persistent survival of the law than did the language which Jesus used. The material universe might dissolve, as he affirmed, but the most insignificant particle of the moral law would still survive. The law which enunciates the duties of life is the boundary of the kingdom of heaven. Those whose lofty purpose is to teach that law to others and keep it faithfully themselves—such are within the boundary, and are citizens of the kingdom whose essence is righteousness. Spiritual citizenship arises from a moral quality in the soul. It does not consist in

meat or drink, or mere external ceremonial. And, as in the stellar world, so in this kingdom of heaven, there are degrees of brightness. He whose knowledge and obedience is imperfect and whose teaching, both in example and precept, is consequently erroneous, shall be called least in the kingdom. On the contrary, there are others who, for the opposite reason, shall be called great. But this is no arbitrary matter. Neither are there any favorites in it. Now appears the uniqueness and glory of the teaching of Jesus. He carries his prohibition back of the literal deed to the evil spirit out of which the deed springs, and of which it is the expression. The righteousness of the scribes and Pharisees was a veneer. It consisted in externalities in which there was no moral quality whatever. As that in which they dealt was outside of themselves, so they in turn and of necessity were outside of that kingdom, which in its substance is wholly subjective.

The Teacher's Lantern.

Jesus took strongest issue with a spirit-destroying literalism. The technism of piety reached its completest development under the hair-splitting genius of the Pharisees. They enumerated 365 prohibitions (number of days in the year), 248 commands (number of bones in the body), 613

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The all the year round best beverage for all classes, ages and sexes.
Delicious—Wholesome
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Calendar for 1910

Send us 2c for postage and we will send you our beautiful 1910 Coca Cola Girl Calendar and our interesting booklet "The Truth About Coca-Cola". Tells all about Coca-Cola—what it is and why it is so delicious, wholesome and beneficial. It gives analyses made by scientists and chemists from coast to coast, proving its purity and wholesomeness. Your name and address on a postal will bring you the booklet by itself.

THE COCA COLA COMPANY, Atlanta, Ga.

ARTISTIC STENCIL DESIGNS and BIG MONEY earned with the newest invention we offer. Send 10c for particulars. Stencil Art Co., Baltimore, Md.

sleeve puffs. It is girlish and youthful, yet dressy in effect and it is adapted both to the frock and to the separate blouse. Crepe de Chine with trimming of moire velours and



[6533 Child's Double-Breasted Coat, 1, 2, 4 and 6 Years.]

chemisette and deep cuffs of tucked chiffon make the waist illustrated, but all seasonable materials are appropriate and the design also

can be made available for the simple washable fabrics. For these last the lining would preferably be omitted, but silks and the like are better when made over a foundation. The sleeves illustrated are new and smart, but plain ones are equally correct and can be substituted whenever preferred.

The waist is made with a fitted lining, which is optional, and consists of front and backs. It is tucked becomingly and the trimming portion is arranged over it. The sleeves can be faced with contrasting material to form the deep cuffs or made of one throughout as liked. When the puffs are used they are arranged over the lining.

The quantity of material required for the sixteen-year size is 2½ yards 21 or 24, 1½ yards 32, 1½ yards 44 inches wide with ½ yard of silk and ½ yard 18 for the chemisette and deep cuffs.

The pattern 6532 is cut in sizes for girls of 14 and 16 years of age and will be mailed to any address on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

The simple, double-breasted coat that is buttoned right up to the throat is one of the most satisfactory that the small child can wear. This one is finished with a pretty turned-over collar and can be made from any cloaking material. Dark red cloth with collar of velvet makes the one illustrated, but chinchilla and other rough finished materials all are used, velvet, velveteen and corduroy are in vogue and blue, brown and green are quite as fashionable as red. Brown broadcloth with collar of sable squirrel would be exceedingly smart and handsome.

The coat is made with fronts and back and is supplied with pockets. The sleeves are of the regulation coat sort and the simple rolled-over collar is seamed to the neck edge.

The quantity of material required for the medium size (4 years) is 3½ yards 27, 2 yards 44 or 1½ yards 52 inches wide, with ½ yard of velvet.

The pattern 6533 is cut in sizes for children of 1, 2, 4 and 6 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)



THE YOUNG FOLKS

MY DOLLY.

My dearest doll is awful good—
She doesn't cry a bit.
I put her in her cozy bed
And then she falls asleep.

Her cheeks are red, her eyes are blue,
Her hair is golden brown;
She sleeps so sweetly in her bed
Till I return from town.

Her dress is made of silk and lace,
Her shoes of patent leather;
Her stockings are of red cheese cloth
Which does not suit the weather.

Her hood is made of pale blue silk
And trimmed with white chiffon,
Which makes her look so quaint and neat
Where'er she has it on.

Pearl Palmer.

A Surprise Party.

It was nice weather and some of us were going to have a nice time together. We were going to surprise another girl. There were quite a few boys and girls. We met at one place close by so we should all come there at the same time. When they all got to the place where we were going to meet we all got in the same sled and only took one sled and left the rest there. The girl we were going to surprise was home all alone. She did not know about it till we were right there. We went in the morning and stayed all day. When we came there at first we played flinch, board of trade, and afterwards played coffee-pot. After that we went out and snow-balled and then we took two little

sleds and coasted down the hills. We rode four on each sled. Once when they were coasting one of the sleds busted, but we soon fixed it so we could ride on it. We coasted a long time and afterwards skated. It was a little ice in the pasture where we were coasting. Some of us had skates. We took the sleds and rode on the ice, too. After we had been skating a long time we played fox and geese in the snow. Afterwards we went and made ice cream. We did not have any ice cream freezer, but we froze it in a pail, and when it had froze real hard we took it in the house and ate it. We all brought presents for the girl, we gave them to her and then we went home. We had a very nice time.

Fun in the Hayloft.

I am a boy of twelve and in the seventh grade at school. I am studying about the earth in the new geography, and history, grammar, spelling, fifth reader and physiology. I weigh eighty-eight pounds and am about four and a half feet high, and I am only twelve years old. I have a good many relations. One uncle is a carpenter, another a farmer, another a real estate man and one in the business of stone quarries. All my relations have good homes and plenty to eat and all of them live by a street car track.

I have a good many playmates and they come over and we all go up in the hayloft and play "blind" in the hay and have fun. I have quite a few friends and go and see some of them when I have time or when it is snowing or stormy.

I read about a coal mine in Cherry, Ill., that was destroyed by fire and about three hundred men were lost in it and they had to pump water into the mine to put the fire out.

The United States pretty near had a war with Nicaragua for shooting of two Americans in Nicaragua.

George Brown.

A Whipping for Birthday.

I don't go to school this year because it is too far and we can't drive because papa has no horse that is gentle enough for us to drive and there is no place to keep it. There is no one that lives close by the schoolhouse. There are ten children in my



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family. It will make twelve with ma and pa. I think it is a big family. The oldest one is a boy eighteen years of age. We are farming. They have got the smallpox all around us. We are going to move next spring. We had no company Christmas because it was a very cold and bad day. I got a good friend, but I did not see her for a long time because she went to Waterloo, Iowa, to visit. Her name is Myrtle Middkiff. My brother is popping popcorn now. I am writing with a fountain pen. I don't like to write with a pen. I guess I'll stop scribbling and go to bed for it is eight o'clock. I will be nine this year. Papa said he was going to whip me on my birthday, but I'm going to hide the whip and he has to get a new one before he could whip me.

Esther Anderson.

A Box Supper.

We had a box supper at our school about the last of October. All the children wanted one so bad. We sold popcorn, pies and boxes and had a pretty girl contest and an ugly man contest.

The teacher said that she would let the sixth grade tend to the popcorn. There were two girls and one boy and so we took one of the fourth grade boys so there would be two boys and two girls. We were going to pop our corn on Thursday afternoon, but we thought the popcorn would get tough, so we made up our minds to pop it Friday morning. They were going to meet at my house Friday morning to pop the corn. It was very rainy and foggy that morning. I did my work up very early and got the parasol to take my little sister to school. I got about half way when I saw the others coming. It was half a mile to school. I sent my sister on to school while I went home with the others. Elsie brought some popcorn and we got the things ready. We popped all of Elsie's corn but ours wouldn't pop. We had lots of good molasses so mama made us some taffy. She didn't get it cooked hardly long enough, but we pulled it anyhow and wrapped it in paper and started to school. We ate some of it on the road.

When we got to school we had a parasol and a basket of popcorn. There were ten sacks in the basket. When we got to the door we knocked and the teacher came to the door. One of the boys said, "Give me some taffy." The teacher took our basket of corn and we told her that we were going over to Mrs. Chapin's to finish popping the other corn. We had about forty sacks to fill. We stopped at Elsie's house to get some more corn. It was raining all the time. We got Elsie's popcorn popper and went on over to Mrs. Chapin's. She was getting dinner ready and didn't have but one skillet empty. We stayed there the rest of the day. We had to go up to another neighbor's to get some more corn. She said she would wash the dishes while we were gone. We began popping corn again and filled seventeen sacks out of the last. There were four baskets of popcorn and four boys and girls. My basket was the only buttered popcorn, the others were just plain popcorn.

Our mothers made pies, mostly

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graphy, Official Training
School U. P. R. R. Telegraph
Department. May work for
board. Write today for big
free book. H. B. Boyles, Pres.

pumpkin pies. When we got to the schoolhouse the teacher had a pretty booth made of cornstalks. On Thursday five of us went down to our house to get pumpkins. We got a wheelbarrow full and started back. I brought a butcher knife along. We cut the pumpkins in rings. In the front and on the sides of the schoolhouse were pumpkin rings. Our booth was trimmed with evergreen and pumpkin rings. It was just big enough for two people.

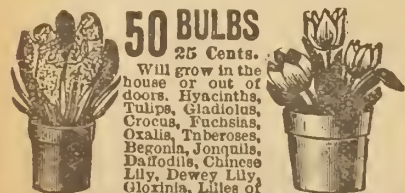
When I came home from popping corn I stopped and looked in. The flag was the curtain for the booth. We were going to have jack-o'-lanterns, but we could not get the candles. We sent for Japanese lanterns, but we could not get them.

At night the wind was blowing hard. My brother, sister and I took the lantern and went to the schoolhouse and when we got there, there was nobody there. When the teacher came there was quite a crowd there. She unlocked the schoolhouse. I sold popcorn with the others. We had plenty of it. I was the only one that sold all my share. It was about ten o'clock before it was over. We had a pretty girl contest. The votes were one cent each. A little girl about eight years old got the prize, which was a box of chocolates.

The ugly man was to eat a glass of pickles. The prize was a can of peaches. The ugly man ate the prize instead of the glass of pickles. The ugly man said, "Now boys, you have helped me; now I will help you," and he passed the prize around to some of those who helped him.

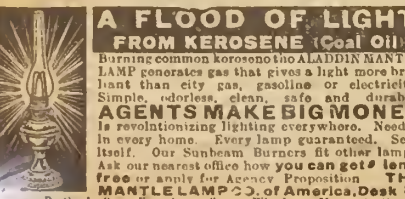
When the teacher counted the money we had made more than we expected. We made \$26.36.

Lizzie Ford.



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25 Cents.
Will grow in the house or out of doors. Hyacinths, Tulips, Gladiolus, Crocus, Fuchsias, Oxalis, Tuberoses, Begonia, Jonquills, Daffodils, Chinese Lily, Dewey Lily, Gloriosa, Lilies of the Valley—all postpaid, 25c. in stamps or coin. As a premium with these Bulbs we will send FREE a big collection of flower seeds—over 200 kinds.
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RYAN'S SALE AT SOUTH OMAHA.

The Ryan sale of Short-horns, at South Omaha, Neb., January 20th, under the management of Mr. H. R. Ryan, brought out a very small crowd of breeders and farmers, not exceeding thirty-five people present, although the inquiry had been good for catalogs. Some were no doubt at the allied agricultural meetings at Lincoln who would have been present, as this was the big day at Lincoln. Twenty-one head were sold, two or three buyers taking practically all of the stuff. No. 1, Lovely 33d, topped the sale at \$285, selling to Messrs. Campbell Bros., of James, Iowa, who secured several other lots. Mr. J. E. Summers, of Malvern, Iowa, secured the bull, Orangeman, at \$190, the top of the bull sale. Colonels Woods and Belows worked hard to sell the few that were sold. Others buyers were Messrs. W. H. Mitchell, Aurelia, Iowa; J. H. Clinker, Benson, Neb.; Frank Donor, Council Bluffs, Iowa; Geo. Carey, South Omaha, Neb.; B. J. Beechler, Callaway, Neb.; J. B. Fickel, Hastings, Iowa.

FEMALES.

Lovely 33d, two years, sire Golden

More Profit On Hogs

Jones fed his hogs the same amount of corn that Smith did. Jones made his gain from 180 to 260 lbs. At 7 1/2 cents a pound this made \$2.25 difference per hog that Smith got out of his feeding over what Jones did, just because Jones did not know how. He was not progressive and Smith was. Jones' 50 hogs brought him \$975, while Smith's 50 hogs brought him \$1,087.50. Smith's knowledge, therefore, was worth to him \$112.50. This tip ought to be worth something to you; some will make it worth \$100 this fall. It isn't what the hog eats; it is what he digests that makes the money. Experience is our best teacher. We are all in a school of learning. The principal cost of producing pork is the feed. Prof. Dietrich says, "90 per cent of the farmers have nearly everything to learn about how to feed a hog to get the most out of him at the least cost." We can help everyone who will be helped to progress; the others will continue to lose the hundred dollars a year. For \$1 we will send you the American Swineherd, the aggressive and progressive acknowledged leader, devoted to the swine industry, for 4 years, and will give you as a premium the Progressive, Scientific Feeding Formula for increasing the gain while feeding fattening hogs, a half pound a day per hog over the customary way of feeding from the same feed given. This hygienic secret made the discoverer a fortune fattening hogs. It is simple, sensible, and just as easy feeding as the old way. Yet it is progressive and scientific. It is of such real value that no sensible man can ignore it. It has been proved so conclusively and repeatedly that we agree to make good or give money back, making you absolutely safe. We also give additional premium, copy of the Pig Feeder's Manual, itself worth double to any hog raiser what you pay us. The paper stops at the time paid to. Address with \$1, AMERICAN SWINEHERD PUBLISHING CO., 505 Como Bldg., Chicago, Illinois.

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KENYON PRESSED STEEL PUMP CO., TAMA, IOWA.

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Grow 30 feet in ten years, 60 feet in 25 years. Cultivated "rooty" stock that has the growing habit. Our methods are correct, as shown by 40 years' success. Order direct from proprietors. Scotch Pine, 18 to 24 in. \$10 per 100, 2 to 3 ft., \$15 Norway Spruce, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25 White Pine, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25 Arborvitae, 12 to 18 in. \$10 per 100, 18 to 24 in. \$15 Other sorts and sizes; also carload lots very cheap. Stock grown at Scotch Grove, Jones Co., Ia. Address Hoyt Bros., Office at Monticello, Ia.

"MORE POTATOES"
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ANCHOR FENCE
means fence satisfaction; a fence easy to put up; that is made right and that lasts. Free sample and catalog. Anchor Fence & Mfg. Co., Dept. H, Cleveland, O.

WANTED No. 1 married man; no family. General farm work; good house; garden; cow kept. Industrious, good worker, strictly reliable. Give age, wages wanted; all particulars first letter. Best references required. Stowe's Ranch, Granger, Ia.

Lad, Campbell Bros., James, Iowa.	\$285.00
Lovely 34th, two years, sire Golden	
Lad, same	75.00
Fennel Lass 2d, two years, sire Missie's Master, same	50.00
Lad's Roan, four years, sire Lavender	
Lad, W. H. Mitchell, Aurelia, Iowa	70.00
Emma Stil, five years, sire Lavender	
Lad, same	50.00
Zada D., two years, sire Missie's Master, Campbell Bros.	30.00
Lad's Mary, four years, sire Lavender	
Lad, and b. c., Frank Donor, Council Bluffs, Iowa	45.00
Lady Beauregard 21st, five years, sire Golden Gloster, Geo. Carey, Omaha, Neb.	31.00
Scottish Beauty 3d, seven years, sire Scottish M., Jo Summers, Malvern, Iowa	71.00
Lady Ellen of Hanover 2d, ten years, sire 5th Barrington Duke of W. H., same	45.00
27th Crystal Duchess of Goodness, eight years, sire Woodsale Victor, and c. c., J. B. Fickel, Hastings, Iowa	67.50
Roan Beauty 2d, two years, sire Baron Lavender, Campbell Bros.	50.00
Cecelia, two years, sire Baron Lavender, same	50.00
Lavender Lass 6th, two years, sire Missie's Master, same	50.00
Golden Duchess 2d, two years, sire Winsome Duke, same	30.00
Mary Oakland 2d, two years, sire Lavender Earl, same	30.00
MALES.	
Orangeman, one year, sire Missie's Master, J. A. Summers, Malvern, Iowa	190.00
Crimson Judge, two years, sire Missie's Master, W. H. Mitchell	70.00
Orangeman, three years, sire Lake-wind Commodore, J. H. Clinker, Benson, Neb.	45.00
Queen's Baron, two years, sire Baron Lavender, B. J. Beechler, Callaway, Neb.	75.00

THE HARDIN-RANKIN SALE.

The attendance at the sale of Messrs. Hardin and Rankin, at Carson, Iowa, on January 21st, brought out a good crowd and forty-eight head were disposed of at an average of \$57.81. The offering was by far the best that these two breeders have ever put up for public sale. The top of the sale was a fall sow, a daughter of Matchless Chief, bred to Harding's King of Colonels, and she was purchased by Mr. H. L. Cantine, Quimby, Iowa, at \$117. One of the greatest sows in the sale was Lady's Peach 4th, a daughter of Belle's Chief I am, out of a daughter of Improver II, and she went to Mr. H. M. Bartlett, Brayton, Iowa, at \$100. She was certainly one of the good bargains in the sale. Mr. C. E. Veak, of Essex, bought several of the best things in the sale, as also did Mr. W. I. Mouser, of Red Oak, Iowa. It was a most uniform offering throughout and, while no sensational prices were paid, yet it must be considered one of the good sales held so far this season. Colonels Luther and Reppert cried the sale. Below is a list of the buyers and prices paid:

1 C. E. Veak, Essex, Iowa	\$ 75
2 Aug. Hager, Avoca, Iowa	60
3 Floyd Knapp, Redfield, Iowa	59
4 C. E. Veak	65
5 Ernest Petticoat, Perry, Iowa	97
6 W. I. Mouser, Red Oak, Iowa	90
7 Lester Smith, Avoca, Iowa	53
8 C. E. Veak	63
9 Wm. Herkelman, Elwood, Iowa	83
10 W. I. Mouser	72
11 H. E. McKnight, Howell, Ky.	64
12 W. R. Hainline & Sons, Blandinsville, Ill.	59
13 W. T. Owen, Oakland, Iowa	50
14 P. W. Charron, Macedonia, Iowa	51
15 H. M. Bartlett, Brayton, Iowa	100
16 J. Q. Gibson, Red Oak, Iowa	70
17 T. R. Young, Macedonia, Iowa	45
18 C. W. Cooksie, Erickson, Neb.	34
19 T. H. Isaac, Red Oak, Iowa	60
20 Warren Pope, Oakland, Iowa	59
21 S. P. Freed, Ames, Iowa	52
22 Robert Pritchard, Carroll, Neb.	58
23 J. D. Isaacs, Red Oak, Iowa	47
24 R. J. Cross, Oakland, Iowa	47
25 H. R. Davis, Corning, Iowa	52
26 West King, Carson, Iowa	53
27 R. J. Cross	50
28 Lawren J. Fisher, Red Oak, Iowa	59
29 I. Q. Gibson	55
30 Edmonds, Shade & Co., Kingsley, Iowa	42
31 R. J. Cross	55
32 Frank Aldritt, Friend, Neb.	50

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I challenge the world to produce an engine of equal merit to my **Caldwell Special** that can be bought for the price I offer you my engine. Give me a chance and I will prove to your satisfaction that the **Caldwell Special** is the engine for you to buy, because I can give you better value for your money than any one else. I sell my engine direct from factory and can save you the dealers' jobber's and catalogue house profit. If this money is as good to you as to the other fellow, write me and I will prove to you all that I say.
All I ask is for you to take the engine, try it free for sixty days on your own farm and if you are not fully satisfied with the engine and convinced that I have saved you money, return the engine to me and I will pay freight charges both ways and it will not cost you one single cent to secure the proof I offer.
I have satisfied and saved money for thousands of purchasers and know that I can satisfy and save you from \$25 to \$100 on the price of your engine.
All my engines are well built, finely finished and guaranteed against defective material for five years. My engine is so simple that you would not have the least difficulty in starting and successfully operating it at all times. I mean just exactly what I say and will put my engine up against any engine in the world.
If you are going to buy an engine I want to ask you to write for my free catalogue; compare my engine with any or all engines you know of, then put my prices along side those of others and see for yourself what I can save you.
Write without fail for catalogue and price list.
J. D. Caldwell, Pres.
The Caldwell-Hallowell Mfg. Co.
507 Commercial St. Waterloo, Iowa.

33 Wm. Casson, Neola, Iowa	51
34 R. L. Cemer, Carlinville, Ill.	74
35 Henry Hess, McClelland, Iowa	50
36 H. L. Cantine, Quimby, Iowa	117
37 O. E. Osborn, Weston, Iowa	56
38 Wm. Casson, Neola, Iowa	63
39 Sexsmith & Strong, Greenfield, Ia.	41
40 J. R. Bolton, Carson, Iowa	40
41 Wm. Casson	42
42 Warren Pope	39
43 R. J. Cross	50
45 West King	45
46 Edmonds, Shade & Co.	65
47 P. W. Charron	36
49 C. W. Cooksie, Erickson, Neb.	35
SUMMARY.	
48 head	\$2,775; aver. \$57.81

A swine breeder of experience and good judgment says: "The best show pig may come from the smallest sow in the herd, but it is not safe, as a rule, to select breeders from that class. We want the most size in the shortest time, and we can safely forego a little of the fattening tendency, provided we secure in the prospective breeder ranginess and a tendency to growth. I don't care how good the individual, if only three or four pigs were farrowed in the litter I would not reserve one of them for a breeder."



A GROUP OF GUERNEYS ON THE FARM OF MR. RALPH TRATT, AT WHITE WATER, WIS., THE TYPE FROM WHICH TO BREED. SEE PAGE 47.



Test Your Seed Corn This Year

RAISE A FULL CROP

Plant only seed of strong vitality. Seed corn specialists claim that all seed is greatly damaged this year. Be safe and test all your seed corn. The most profitable implement you can own on the farm this season is a

'New Ideal' Seed Corn Tester--Free To Try

Every farmer who has made a test with one of these machines is enthusiastic about it and says he would not do without it. We will ship any reliable farmer a 'NEW IDEAL' Corn Tester with privilege of returning at our expense if not found absolutely satisfactory after giving it a trial. Accept today.

Send Postal Today To

Get FREE Booklet

ULBRICH SEED CORN TESTER CO.,
310 Walnut Street, ATLANTIC, IOWA.

2 H.P. GASOLINE ENGINE \$49.50

COMPLETE AND READY TO START.


4 to 10 H.P. in proportionate prices.

Knox Gasoline Engines

develop the full rated horse power and more. Guaranteed for five years and shipped on ninety days' approval. Best and simplest engine made. Just the engine for the farm. Runs cream separators, churns, pumps, feed mills, corn shellers, washing machines, wood saws, drilling, etc. We will refund your money and freight charges if our engine does not please you in every way. Write for our free catalog and see the money we can save you.

R. M. Knox, Pres.
Western Harrows & Supply Co.
613 Main St., Waterloo, Ia.

5 YEAR GUARANTEE



FREE A Tape Measure And A Booklet

Just drop us a postal, stating about the number of rods of fence you have on your farm, and we will send you without charge a 10-foot Linen Tape-measure in a nickel-plated case, and a very interesting booklet "How Farmer Gus Made Good." We'll also send full information about



The Fence with The Swinging Joint

Self Adjusting To Rotten Ground

APEX FENCE

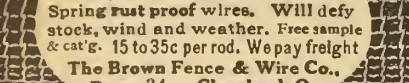
Do not build another rod of fence until you know about APEX. Many farmers are replacing other fence with APEX. Isn't it better to put up the right fence at first? Write us the card now. We will send Tape-measure, Booklet and full information at once.

Janesville Barb Wire Co., 207 So. Franklin St., Janesville, Wis.

BROWN FENCE

For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. We pay freight

The Brown Fence & Wire Co.,
DEPT. 34 CLEVELAND, O.



14 1/2 Cents a Rod

For 23-in. Hog Fence; 15 3/4-in. for 26-inch; 18 3/4-in. for 31-inch; 22 1/2-in. for 34-inch; 26-in. for a 47-inch Farm Fence. 50-inch Poultry Fence 33c. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.

KITSELMAN BROS.,
Box 290 MUNCIE, IND.



Cheap as Wood.

We manufacture Lawn and Farm Fence. Sell direct shipping to users only, at manufacturers' prices. No agents. Our catalog is free. Write for it today. UP-TO-DATE MFG. CO. 927 10th St., Terre Haute, Ind.



Don't Rust Farm Fence

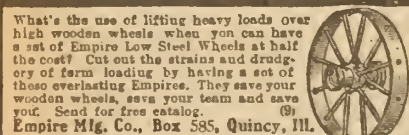
Extra heavily galvanized. Solid direct to farmers at manufacturers' prices. 30 days free trial. Freight prepaid. Also Poultry and Ornamental Wire and Iron Fences. Catalogue free. Write for special offer. The Ward Fence Co., Box 346 Deatur, Ind.



Save Your Back!

What's the use of lifting heavy loads over high wooden wheels when you can have a set of Empire Low Steel Wheels at half the cost? Cut out the strains and draggery of farm loading by having a set of these overloading Empire. They save your wooden wheels, save your team and save you. Send for free catalog.

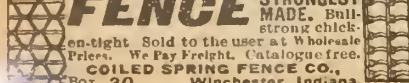
Empire Mfg. Co., Box 585, Quincy, Ill.



FENCE STRONGEST MADE.

Built strong chicken-tight. Sold to the user at Wholesale Prices. We Pay Freight. Catalogue free.

COILED SPRING FENCE CO.,
Box 20 Winchester, Indiana.



REPORT OF SCHUG'S POLANDS.

Saturday, January 22d, Mr. Robert Schug, of Coleridge, Neb., held his second annual Poland China sow sale on his farm one and one-half miles east of Coleridge. His offering was seven tried sows, two fall gilts and thirty-two spring gilts. The thirty-two spring gilts made an average of \$44.69, the seven tried sows made an average of \$68. The forty-one head sold for \$2,110, or an average of \$51.46 per head. This was what we would call a first-class Poland China bred sow sale, but the offering was extra good from start to finish, and Mr. Schug is to be commended for being able to put up such a good offering of the large types of Poland China hogs. Mr. Schug had a number of mailed bids, as well as extra good home support. Nebraska Queen, a daughter of Dry Creek Chief, was the highest-priced sow in the sale, bringing \$78, and going to Mr. Henry Large, of Randolph, Neb. Mr. Schug expressed himself as being well pleased with the outcome of his sale. Below is a list of hogs that were sold:

Surprise Girl, F. M. Taylor, Coleridge, Neb.	\$61.00
Radiant Rose, C. Schram, New-castle, Neb.	67.50
Jewel Princess, F. Anderson, Coleridge, Neb.	63.00
Monarch Princess, H. Opfer, Coleridge, Neb.	70.00
Queen Louise, H. Morrison, Coleridge, Neb.	77.50
Nebraska Queen, H. Large, Randolph, Neb.	78.00
Monarch Lady, H. Opfer.	60.00

GILTS.

Monarch Best, E. M. Rissler, Grafton, Neb.	46.00
14. J. M. Coleman, Wayne, Neb.	57.50
Dolly Surprise, A. Forinash, Coleridge, Neb.	59.00
16. H. Morrison	56.00
19. Same	54.00
17. F. W. Anderson, Coleridge, Neb.	49.00
18. H. Opfer	42.00
20. A. E. Rich, Grafton, Neb.	54.00
22. A. D. Potter, Grafton, Neb.	40.00
23. J. W. Harper, Coleridge, Neb.	48.00
24. Gartner Bros., Coleridge, Neb.	44.00
25. F. A. Anderson, Coleridge, Neb.	50.00
26. A. Forinash, Coleridge, Neb.	47.00
27. H. Morrison	50.00
28. F. Anderson, Coleridge, Neb.	42.00
29. Gartner Bros.	40.00
30. H. Morrison	36.00
31. M. H. Wait, Coleridge, Neb.	50.00
32. F. Wilkerson, Coleridge, Neb.	37.50
33. A. Forinash	56.00
34. H. Opfer	51.00
35. C. C. Sheets, Osmon, Neb.	50.00
36. C. Schram, Newcastle, Neb.	46.00
37. J. F. Hochstein, Coleridge, Neb.	62.00
38. F. W. Anderson	45.00
39. H. Morrison	49.00
40. J. J. Hochstein, Hartington, Neb.	62.00
41. F. M. Anderson, Coleridge, Neb.	48.00
42. Same	44.00
43. H. Opfer	50.00
44. L. J. Haile, Grafton, Neb.	52.00
46. F. M. Anderson	41.00
45. Same	42.00
47. J. F. Brady, Grafton, Neb.	44.00

BEERMAN'S SUCCESSFUL SALE.

Mr. Chas. Beerman, of Webster City, Iowa, sold thirty head of Duroc Jerseys on Wednesday, January 19th, for an average of practically \$40. Mr. A. L. Mossman, of Radcliffe, Iowa, topped the sale, securing a daughter of Crimson Chief at \$77.50. There was a good crowd of farmers present and secured a number of things at prices which will insure them a profitable investment. Col. O. L. Mossman sold the offering in a most satisfactory manner and was ably assisted in the ring by Col. A. L. Mossman. Below is a list of sales:

	Price.
1. C. W. Foster, Newell, Iowa.	\$52.50
2. A. L. Mossman, Radcliffe, Iowa.	77.50
3. J. T. Thompson, Eagle Grove, Iowa.	53.00
4. J. E. Adams, Webster City, Iowa.	41.00
5. A. L. Mossman	62.50
6. E. E. Cheever, Webster City, Ia.	30.00
7. C. W. Foster	35.00
8. J. D. Madison, Webster City, Ia.	28.00
9. C. W. Foster	26.00
10. A. J. Buzick, Webster City, Iowa	41.00
11. C. Christensen, Webster City, Ia.	40.00
12. J. P. Stone, Webster City, Iowa.	35.00
13. Elmer Cheever	42.00
14. Henry Harvey, Goldfield, Iowa.	36.00
15. G. M. Clauss, Webster City, Iowa	30.00
16. J. W. Wilfong, Shenandoah, Iowa.	32.00
17. Same	33.00
18. W. L. Murdock, Webster City, Ia.	29.00
19. G. M. Clauss, Webster City, Iowa.	31.00
22. A. I. Conklin, Radcliffe, Iowa.	46.00
25. C. Christensen	35.00
26. Same	41.00
29. B. F. Henderlighter, Jesup, Iowa.	29.00
31. Fred Stouffer, Webster City, Iowa.	36.00
32. C. W. Foster	55.00
33. W. J. Ferrell, Webster City, Ia.	30.00
34. Same	45.00

SUMMARY.

28 head	\$1,092; average	\$39.00
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THE JAMES POLAND CHINA SALE.

Mr. J. O. James, of Braddyville, Iowa, sold Poland China sows on January 18th. Thirty-five head were disposed of at an average of \$46.32. Mr. James had cataloged forty-five head, but felt that the range of prices was too low and held back the remainder. Below we give a list of the entire number sold:

Lady Longfellow 11th 103508, March 28, 1905, H. M. Keever, Hub-bell, Neb.	\$79
Pawnee Belle 83540, March 10, 1904, Lou McLarnon, Braddyville, Iowa.	65
Lady Jumbo 124648, March 15, 1907, John F. Gee & Son, Ben-nett, Neb.	87
Young Belvie 3d 110527, February 23, 1906, I. B. Raines, Ottumwa, Iowa.	53
7 November 10, 1908, Geo. Farren, Braddyville, Iowa.	60
9 September 5, 1908, L. R. McLarnon, Braddyville, Iowa.	50
10 September 5, 1908, E. D. Keasey, Wiota, Iowa.	60
11 September 5, 1908, Harry Tinnell, Braddyville, Iowa.	39



The Ozarks are the Denmark of America.

Right here in the heart of the Mississippi Valley, practically on the outskirts of three great cities, is the greatest natural dairy country in the world, where butter fat can be produced cheaper than it can be produced anywhere else in America.

There are logical reasons why this is so.

First, the cost of land is very low; \$5 to \$25 an acre with abundant timber shelter.

The climate of the Ozarks, free from extremes of heat and cold, is ideal for the health of the cow and the production of milk.

Numerous mountain streams provide an abundance of pure water.

Grasses, clovers and forage crops grow profusely in the Ozarks, thus producing cheap feeds that reduce the cost of feeding to the minimum.

Orchard grass, an especially prolific grower, will furnish fine green feed almost the entire winter. If reinforced with winter Vetch, winter rye, winter barley, winter oats and fescue grass, there will hardly be ten days all winter when

stock can't be allowed to run on such pastures and kept in fine flesh. Milk cows in the Ozarks, when properly managed, are always healthy, and free from tuberculosis.

One Ozark farmer gets a net profit of \$12 a month from each of his cows. The cream and fertilizer from each cow are worth \$100 a year to him.

With the use of intelligent methods others can do this well. I am prepared to explain just how such results are accomplished if you are interested.

Dairying is just one feature of intensive farming in the Ozarks. Hogs, sheep, mules, poultry and fruit are all very profitable.


A small farm devoted to these pursuits will return a big profit on a small investment of capital and labor.


If you will get a small farm in the Ozarks, set out an orchard of well selected varieties, lay out a vegetable garden and berry patch, stock the farm with poultry, cows, pigs, sheep and mules, grow the feeds and grasses you need for them, you will realize a greater profit than you possibly could make on a big grain farm elsewhere.

Furthermore you would live in a beautiful country, in healthful surroundings, free from malaria and away from severe cold and snow. You would be within a few hours of three large markets—St. Louis, Kansas City and Memphis and would have advantage of good local markets, schools, churches, etc.

It will be worth your while to look farther into this. We have some attractive books full of plain facts about the Ozarks. They will interest you. Write for free copies today.

ALEX. HILTON, GENERAL PASS. AGENT 1509 Frisco Bldg., St. Louis





CYCLONE ORNAMENTAL FENCES

are a profitable investment for property owners. Every dollar spent in fixing up your place in this way will add \$10.00 to its value.

CYCLONE FENCES

are made so they never sag or bulge out of shape. They will outlast other fences for the wires are heavy and rust-resisting. Cyclone Fabric can be erected on uneven ground. Cyclone Fences are made in many different styles of many attractive patterns, using either steel or wood posts. It will pay you to look into this matter of fences and in order that you may know about Cyclone Fences we send our Style Book free.

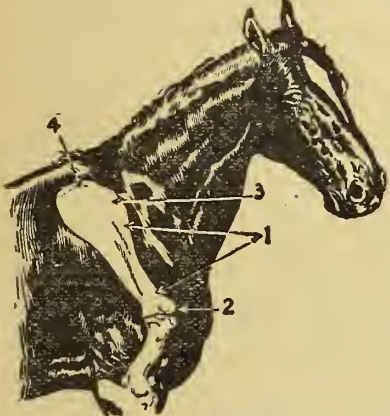
CYCLONE FENCE COMPANY, Dept. 121, Waukegan, Illinois



12 September 5, 1908, C. C. Owens, Braddyville, Iowa.	38	Greenfield, Iowa	70
13 August 20, 1908, W. W. Thompson, Hopkins, Mo.	65	26 September 30, 1908, Geo. Leighty, Billel, Ill.	59
14 August 20, 1908, A. Lawrence.	39	27 September 22, 1908, J. R. Stone.	34
15 March 24, 1908, D. C. Owens.	38	28 September 25, 1908, P. G. Tinnell, Braddyville, Iowa.	35
16 October 1, 1908, same.	36	29 September 25, 1908, D. C. Owens.	27
17 October 1, 1908, same.	27	30 September 30, 1908, F. O. Black, Hopkins, Mo.	50
18 October 1, 1908, W. H. Cook, Braddyville, Iowa.	38	31 March 1, 1909, W. E. Willey, Steele City, Neb.	99
19 October 1, 1908, A. F. Bollin, Quimby, Iowa.	38	33 March 10, 1909, Joe Stone, Braddyville, Iowa.	31
20 October 1, 1908, W. E. Aldrich, Clearfield, Iowa.	32	34 February 23, 1909, R. A. Schug, Coleridge, Neb.	67
21 October 15, 1908, J. R. Stone, Braddyville, Iowa.	33	35 March 15, 1909, D. C. Owens.	30
22 October 15, 1908, C. Folk, Sham-baugh, Iowa.	36	37 March 15, 1909, J. R. Dugan.	29
24 September 23, 1908, Alfred Lawrence, Braddyville, Iowa.	35	38 April 1, 1906, A. A. James, Braddyville, Iowa.	37
25 September 30, 1908, J. R. Dugan, Clarinda, Iowa.	41	39 June 2, 1907, Geo. Wiloo, Braddyville, Iowa.	39
25 1/2 September 30, 1908, W. M. Shrader,		40 May 10, 1909, T. E. Aldrich, Clearfield, Iowa.	25

THE HORSE AND HIS COLLAR.

Dr. C. D. Smead, veterinary advisor, says: "It is a known fact by those who have made the study of the anatomy of the horse a special study, that a large per cent of the shoulder lameness that horses are afflicted with is due to the use of collars that do not bring the bearing on the shoulder where it should be. And the result is, undue strain is brought to bear upon the ligaments (see No. 4 in illustration) which support the top of the scapula (shoulder blades), and sooner or later, in case the horse is made to do steady pulling work, these ligaments become so affected as to make the horse stiff in his movements, and he becomes what some unskilled horsemen call chest foundered, or has a high sweeney, the whole shoulder growing flat at the top of the shoulder blades. It is an old saying, 'stiff as a plow horse in the morning.' But the question is, why should a horse be stiff the morning after doing a day's plowing? The answer is easy. The old English collar or any other collar constructed on the plan of the English or hame collar (I care not whether it's made of leather, canvas, or steel) can't be made to bring the pressure wholly on the muscles that lie be-



tween the point of the shoulder and the projection on the shoulder blade. (See Nos. 1, 2 and 3 in illustration); and that is the only point where pressure of the collar can be made without inflicting pain and injury. This space is on horses, as a rule, only about eight inches; thus it has been, all the years that horses have been used in harness, until the invention of the Humane Horse Collar, we have been inflicting pain to our friend (the horse). We have been putting galls on him; we have sweeneyed him—and we have been making many a horse a balky horse, simply because he would not inflict pain on himself by working for us. I have personally given the Humane Collar a severe trial for three years on my own farm teams, and have no hesitation in recommending it as being superior to any device ever as yet being discovered to enable horses with all kinds of necks and shoulders to work with ease and freedom from sore necks and gall and shoulder lameness." For further information see page 9 or write the Humane Horse Collar Company, 1953 S. 13th St., Omaha, Neb., or 1615 Lowe St., Chicago Heights, Ill.

HORSE SECRETS.

It is a peculiar thing that, although the horse is associated more closely with the farmer and the farmer's prosperity than any other animal, there is a lamentable lack of knowledge on the part of his owner. The average farmer knows about as much of the ailments of the horse and how to treat them as he would know about running a ship. Our readers who are willing to acknowledge that there are some things they do not know concerning the horse and his treatment will be interested in the excellent book called "Horse Secrets," published by the Farm Journal, Philadelphia, Pa. This is a book



of nearly 100 pages devoted entirely to subjects connected with the horse and his care. It dwells upon the secrets of feeding, beginning with the colt and continuing through all the various conditions in which the horse is placed. It is especially of value in its treatment on the subject of the various vices of the horse. It tells how to stop halter pulling, how to prevent mules from kicking, how to handle a balky horse, how to cure a stall kicker, etc. For those who are given to trading horses it has a dozen or more pages of interesting matter. It explains all the secrets of the horse trader, how their various tricks may be exposed and a great deal of matter that is not only valuable, but interesting. It also devotes a chapter to the question of selecting stallions and this of itself is worth the price of the book. In addition, there are also a list of veterinary secrets, secrets of buying and selling horses and, in fact, a great deal of information that cannot be procured elsewhere, yet which is really worth many times the cost of the book. This book, together with subscription to the Farm Journal for five years may be had by sending \$1 to the Farm Journal, 1023 Race street, Philadelphia, Pa. See page 21.

BURPEE'S ANNUAL FOR 1910.

Burpee's catalog for 1910 is out. It is headed "The Plain Truth About the Best Seeds That Grow." This is the thirty-fourth annual catalog issued by the well-known seedsmen, W. Atlee Burpee & Co., of Philadelphia, Pa., whose advertisement will be

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

320 ACRE FARM—For sale: 270 acres in cultivation, 300 acres under good fence and cross fenced into a half dozen different fields, 30 acres more good land to be put into cultivation, 300 acres of the entire body is clear of stone, and a self binder, mower or gang plow can be operated over this amount. Small living creek runs through farm, but don't wash land, two fine living springs, and a dandy fine fish pond with plenty of fish, good living well at house, bearing orchard for family use, good two-story frame house with six big rooms and hall, and front and back porches, house is well painted and in the best of repairs, fine stone-well cellar 12x20 feet, good frame smoke-house, and good frame barn 50x50 feet with hay track, there are also cow sheds, granary, machine sheds, chicken house, blacksmith shop and other outbuildings. The buildings are on main good road, two miles from railroad station, but the farm adjoins a village which has good general store, fine roller flour mill, blacksmith shop, postoffice and good new school house with eight to nine months school each year. Have daily mail, and telephone in house, good neighborhood and healthy location, can see about a dozen other good farms from this one. This land will produce 60 to 90 bushels of corn per acre, 25 to 40 bushels wheat, 50 to 80 bushels of oats, per acre, 2 to 2½ tons of timothy hay per acre. This choice farm is in a high state of cultivation, 170 acres of this land valued at \$100 per acre will pay 8 per cent interest. This is the best improved and watered general and stock farm in this locality. Can furnish warranty deed and abstract. Taxes paid to date. Will give possession at once. The very best of reasons for wanting to sell. Write me about this fine farm. Price \$50 per acre. Two thirds cash and good terms on balance. Address Claud D. Bunyard Salem, Dent county, Missouri.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$5 per acre; only one-fortieth cash, 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands, J. J. Snyder, School Land Locator, 605 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

FREE GOVERNMENT farms. Our official 112 page book "Vacant Government Land" describes every acre in every county in U. S. A million acres vacant. How to secure 160 acres by entry, 1909 diagrams. All about irrigated farms. Price 25c, postpaid. Webb Pub. Co., Station 4, St. Paul, Minn.

FARM for sale by owner. 160 acres in Madison county, Iowa; beautiful location; good buildings; good soil; some good timber; all can be farmed; a fine general purpose farm. \$16,000, half cash, balance \$4,000. Write for description. O. H. Blume, East Peru, Iowa.

SELL your property for cash in less than 90 days; properties and business of all kinds sold quickly in all parts of the world. Send description today, we can save you time and money. The Real Estate Salesman, H. Funke Bldg., Lincoln, Nebraska.

WANTED—Farms and businesses. Don't pay commissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties free. American Investment Association, Minneapolis, Minn.

INDIAN LANDS in Oklahoma, the famous Washita and Canadian Valley farms in the heart of rain belt, \$20 to \$50 per acre. Write us for free information. Edwards & Moore, Nibt & Day Bank Building, Oklahoma City, Oklahoma.

FOR SALE—North East Iowa farms, \$50 to \$85 per acre. 40 to 80 acres. How to seek and investors, buy now while the price is low. Write for list, map. Wm. L. Maricle, 2506 East Elm Street, Des Moines, Iowa.

COFFEY COUNTY, Kansas, the land of corn, wheat, alfalfa, clover and bluegrass; good water and fine climate; fine farms at \$40 to \$65 per acre. Write for list. Stewart Land Co., Le Roy, Kansas.

A BARGAIN for someone wanting farm of 80 acres in Lee county, Illinois. All in winter grain. Price \$4,500. Very easy payments. Leonard, 609, 115 Dearborn St., Chicago.

SO E. Z. TO get a nice farm home in the mild climate of Virginia. May we tell you how? Casselman & Co., Est. 20 years, Richmond, Virginia.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real estate Agency, Fulton, Missouri.

FOR SALE—Two hundred forty acre farm near Austin, Minnesota; improved; good well, and buildings. E. G. Sachse, Cherokee, Iowa.

FARMERS—write today for Idyllic of Kansas and our new land list. Ford & Smeltz, Enterprise, Dickinson county, Kansas.

BARGAINS in Kansas land. Write for free descriptions and price list. V. E. Niquette, Salina, Kansas.

FOR EXCHANGES, quick sales and large list, address, Room 6, Centennial Block, Omaha, Neb.

found on page 12. The Burpee catalog gives all the usual information with reference to varieties, prices and descriptions. Its title page is a work of art which every lover of flowers will admire. A number of novelties of a most interesting character are mentioned. It is a most interesting catalog and should be in the hands of every farmer and housekeeper. It may be had by writing to W. Atlee Burpee & Co., Burpee Building, Philadelphia, Pa.

WESTERN ELECTRIC TELEPHONES.

The telephone advertisement of The Western Electric Company appears on page 18 of this issue. The instruments made by this company are as near to telephone perfection as has yet been reached. More than 6,000,000 of them are in use at the present time. The Bell Telephone Company uses the Western Electric instruments exclusively, which is perhaps as great an endorsement as could well be given. Our friends who contemplate the purchase of telephones will do well to write to the Western Electric Company at any of the addresses named in the advertisement, making a request for bulletin No. 30, which describes the full line of instruments.

Ask your neighbor to subscribe for The Homestead.

REAL ESTATE.

FOR RENT OR SALE—Iowa, Monroe county; 620 acres, 160 acres under cultivation, balance pasture, some timber and brush; house, 6 rooms, 2 barns, crib, etc.; well watered; 2½ miles from Interurban station; will rent for long term. Excellent opportunity for stock raiser. Wright, 310 Citizen's Bank Building, Des Moines, Iowa.

SOUTH CAROLINA and Virginia boys won Government corn prizes raising 152½ and 122 bushels of shelled corn per acre. I have southeastern lands for sale, prices from \$4 to \$25 per acre. Information as to Virginia and the Carolinas will interest you. L. M. Hull, Security Bank Building, Cedar Rapids, Ia.

COLORADO ALFALFA, alone, readily sells our sub-irrigated general farming lands in eastern Colorado, near Denver, from \$15 to \$25 per acre. For alfalfa literature and Colorado map address Colorado Farm Land Association, 279 Dearborn St., Chicago, Ill. Do you want to act as our agent?

THE TEXAS Panhandle—Wheat, corn, hogs. Come to Swisher county, the heart of cheap, rich, level land. Sure crops. High altitude, delightful climate. No cyclones, no floods. Free descriptive booklet. T. Write James Frye, Secretary, Commercial Club, Tulsa, Texas.

PANHANDLE of Texas—Fine, smooth, rich, prairie lands; well located; improved and unimproved in tracts of 160 acres or more. Prices and terms right. For list, descriptive pamphlet and card showing rainfall, address W. Latney Barnes, Box 55, Amarillo, Texas.

64 ACRES, 8 room house; basement barn, 42x52 concrete floors. Condition of buildings good. Apple orchard, pears; 1 mile to railroad village, churches, stores. \$2,100, one-half cash. Hall's Farm Agency, Owego, Tloga county, New York.

FARM FOR RENT—313 acre wheat and hay farm for rent, 4 miles from Crookston, Minn. Renter to have first option to buy same. Will rent for cash only, not on shares. Write William Weinstein, 1716 Fillmore Street, San Francisco, California.

BEST QUALITY irrigated lands; Bosler Irrigation district; 80 acres, improved, at \$55; 80 acres, well improved, at \$65; 80 acres, half mile from Bosler, at \$85; 40 acres, half mile from Bosler, at \$60. Easy terms. H. W. Quaintance, Laramie, Wyoming.

SNAPS in wheat land, Scott and Wichita counties, Kansas. Unimproved lands \$10 and up per acre. Two good improved farms close to town, \$15 per acre. Boulware & Countryman Realty Co., Modoc, Kansas.

NO CASH WANTED. Will sell 280 acres of good farm land in Missaukee county, Michigan, on crop payments. Write for particulars, Frank P. Cleveland, 1279 Adams Express Building, Chicago, Ill.

TEXAS GULF Coast prairie land for sale, suitable for corn, cotton, potatoes and all kinds vegetables. Close to good schools and churches. \$17 to \$37.50 per acre. G. T. Reinhardt, East Bernard, Texas.

450 ACRES fine land, 20 miles from Kansas City, on rock road. Will double in value in 5 years. Many other smaller farms. W. H. English, New York Life Building, Kansas City, Missouri.

FOR SALE—293 acres of the choicest land in the state of Kansas. Owner is non-resident and will sell at a big bargain. This is a snap. Write for full particulars. R. G. Tonkin, Abilene, Kansas.

FOR SALE—320 acres, good house and barn, 100 acres to wheat, all goes; only \$30 per acre. 160 acres, 140 to wheat, only \$25 per acre. Act quick. J. F. Schump, Cunningham, Kansas.

LAND—BOTH RAW and irrigated, under new ditches and new railroads in Weld county is attracting many investors and homeseekers. Write D. W. Rummels, Greeley, Colorado.

FOR SALE—Corn, wheat, alfalfa, farms, ranches, in Kansas, Oklahoma, one-fourth cash. Ask for 30 page list. Wm. Godby Co., Arkansas City, Kansas.

40 ACRE DAIRY farm; 35 acres cleared, 20 acres meadow, good house, good water. \$985. Easy terms. Write for list. Bowden, Birch Tree, Mo.

1,600 ACRE improved stock ranch, with eight head of horses, mowers, wagons, etc. \$11,250; must sell. H. W. Quaintance, Laramie, Wyoming.

\$4,200 BUYS 165 acres good land, good buildings; near rail road; also 5 cows with farm. Lewis Farm Agency, Candor, Tloga county, New York.

500,000 ACRES of good grain land to be bad under the homestead act near here; good climate. Address Business Men's Club, Columbus, Montana.

IMPROVED Nebraska farms and ranches for sale; no sand in Greeley and Valley counties. Write Clem Meyers, North Long, Nebraska.

IF SOLD—Possession at once; highly improved Yankton county 200 acre corn farm, long time. A. R. Kerr, Mission Hill, South Dakota.

FOR SALE—Ideal 240 acre stock farm adjoining O'Neill, Nebraska. Not sold soon might rent. Thomas Carlson, O'Neill, Nebraska.

IF YOU want good and cheap farm lands, write us. We have them. Walter A. Evans & Company, Kiowa and Prior, Oklahoma.

WELL IMPROVED Anderson county, Kansas, farms, \$35 to \$65. Send for new, free list. Holcomb Realty Co., Garnett, Kansas.

INDIAN lands, Kansas, Texas farms, information free. Frank McDowell, Arkansas City, Kan.

GOOD FARM for sale; close to market, school and church. No commission. Irene Brown, Erie, Kan.

BOOK OF 500 farms and merchandise, trades free. Graham Brothers, El Dorado, Kansas.

POST CARDS.

POST CARDS—(To introduce) 20 gems of worth and beauty, 15 cents; 40 for 25c. Absolutely unlike all others. Get the best. Premium coupon and seed catalog free with every order. A. T. Cook, Hyde Park, New York.

TEMPERANCE post cards. 20 gems of worth and beauty, richly illustrated, for 15c., 40 for 25c., 100 for 60c. I give a premium coupon and seed catalog free with every order. A. T. Cook, Hyde Park, New York.

20 HIGH-GRADE post-cards, birthday greetings, landscapes, Easter and other beautifully colored, sent postpaid for only 10 cents. Address Kusnitz & Co., 944 Chateaufort Ave., St. Louis, Missouri.

AGENTS WANTED.

WE PAY \$80 a month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bigler Company, X425, Springfield, Illinois.

AGENTS—Handy Home Fastener. Every horse owner buys at sight. 200¢ profit. Thomas Mfg. Co., 559 Third St., Dayton, Ohio.

SEEDS AND NURSERY STOCK.

I HAVE 2,000 bushels 1908 crop Dakota grown Iowa Gold Mine seed corn. Write for sample and price. L. N. Crill, Elk Point, South Dakota.

ALSIKE CLOVER and timothy seed, own raising, free from foul seed. Write for samples. R. E. Crane, Grand Meadow, Minnesota.

POULTRY.

FORTY VARIETIES of standard bred chickens, ducks, geese and turkeys; northern raised, hardy, and fine in plumage. Lowest prices on stock, eggs and incubators and brooders. Large illustrated catalog mailed for 4c. 1. X. L. Poultry Yards, Fulda, Minnesota.

FIFTY VARIETIES of pure bred chickens, ducks, geese and turkeys. Incubators and brooders. Large illustrated catalog mailed for 4c postage. C. M. Atwood, Dundee, Minnesota.

SILVER LACED Wyandottes exclusively. Winners at several shows. Fine cockerels for sale at \$1.50 each; three, \$4.15; six, \$8. Circular free. John A. Johnson, Route 2, Pilot Mound, Iowa.

BARRED ROCK cockerels, have won at Cedar Rapids and six other large Iowa shows. Will please you or your money back. Circular free. Ed. Anderson, Alta, Iowa.

BEAUTIFUL Partridge Cochins and the business fowls of the twentieth century, Rhode Island Reds. Write for prices today. W. J. Casey, Knoxville, Ia.

CORNISH INDIANS exclusively; 30 cockerels, good size, heavy bone, fine plumage. Eggs in season. Mrs. Jno. E. Griffith, Washington, Iowa.

BARRED PLYMOUTH ROCK cockerels for sale, large, vigorous, farm raised birds, good barring. \$1.50 each. Otto A. Schrank, Danbury, Iowa.

STOCK FROM prize winners. Cockerels Single Comb Brown Leghorns, M. B. turkey toms. Mrs. Geo. Manning, Birmingham, Iowa.

BUFF ROCK cockerels and Pekin ducks of good size and color. Prices right. Mrs. John Martin, Mason City, Illinois.

FOR SALE—Barred Plymouth Rock cockerels, \$2 and up. Aye Bros., Grant St., Blair, Nebraska.

LARGE PEKIN ducks and Toulouse geese; prices reasonable. Frank Martin, Clare, Iowa.

30 BREDS geese, ducks, chickens. Catalog free. Minkel & Co., Mapleton, Minnesota.

PARTRIDGE COCHIN cockerels \$1.50. Clifford Lamberson, Palmer, Nebraska.

CHOICE Barred Rock cockerels. Jas. Farquhar, Sutherland, Iowa.

FOR SALE—Large Embden geese. Hiram Clouss, Clare, Iowa.

HELP WANTED.

MEN WANTED—Prepare for next railway, mail, customs, postoffice examinations. Salary \$500 to \$1500 yearly. Salary twice monthly. Annual vacations. Short hours. Rapid advancement. Steady work. Common education sufficient. Country and city residents stand same chance for appointment. Political influence unnecessary. Over 10,000 appointments every year. Write immediately for schedule showing examinations, places and dates. To advertise our schools we are preparing candidates free. Franklin Institute, Dept. O-24, Rochester, New York.

WANTED—Railway mail clerks, conductors, motormen, firemen, brakemen. Large salaries, fascinating work. Good men needed. Select your choice and write immediately. American Railway Institute, Dept. H, Kansas City, Missouri.

WANTED—Railway mail clerks. Let us prepare you for spring examination; 100 free scholarships. President of school conducted government examinations. Catalog and free trial lesson. Ozment's College, Dept. 42 R, St. Louis, Missouri.

GOVERNMENT farmers wanted. Salary \$75 monthly. (Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42 F, St. Louis, Missouri.

HELP WANTED—Farm hand, will hire the year around on stock farm; level; land near Peoria, Ill. Address F. E. Z., care of this paper.

LIVE STOCK.

WILL EXCHANGE pedigreed, seven months, Collie dog for bred Poland China gilt or spring boar. Brucebrae Kennels, Elkpoint, South Dakota.

WANTED—Good Belgian or Percheron stallion, eight to twelve years old. Must have quality and size. Mapledale Farm, Williamsburg, Iowa.

WANTED—Registered weanling Percheron fillies, blacks or grays. Give description and price. W. H. Miller, Route 2, Independence, Iowa.

FOR SALE or exchange—Shetland stallion thirty seven inches high, weight 24 pounds, twelve years old. L. H. Luckhardt, Tarkio, Missouri.

FOR SALE—Four registered Red Polled milk calves, 4 to 8 months old, from good milkers. Howard Copener, Portage, Wisconsin.

WANTED—Yearling Percheron stallion, black, must be large, heavy bone and good for cash. L. H. Luckhardt, Tarkio, Missouri.

CHOICE Polled Dmrhams. No sears. F. Bruker, Kilbourn, Wisconsin.

DOGS.

FOXHOUNDS—Pedigreed Birds and Walker strains. Most successful coon, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

COLLIE PUPS for sale from the best champion and imported strains. They make great workers, good watch dogs and handsome pets. Write me your wants. Leroy A. Hays, Knoxville, Iowa.

THOROUGHBRED coon, fox and wolf hounds, trained and untrained. These dogs are guaranteed. Address Morris Murphy, Beutonsport, Iowa.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

ELGIN AND WALTHAM WATCHES.

ELGIN AND WALTHAM watches—17 jeweled Elgin watch in 20 year Bates & Bacon case, new, \$10.95, express prepaid. Reference, Continental National Bank (McClanahan), Chicago. Address C. A. Starr, watches only, 2153 Warren Avenue, Chicago, Illinois.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

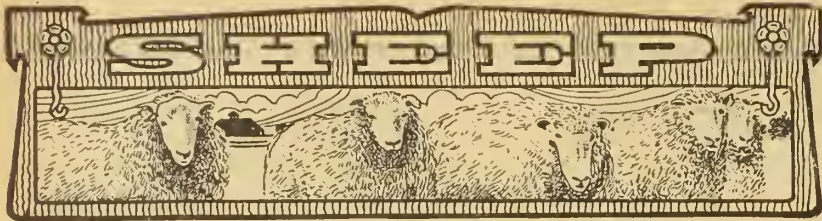
MISCELLANEOUS.

SAVE one-fifth your coffee. Make 15 cent coffee taste like the 30 cent kind. Use the Sanitary Percolator, guaranteed. 30 cent size makes 2 to 8 cups, 50 cent size, 8 to 15 cups. Sent postpaid on receipt of price. Necessity Supply Co., Toledo, Ohio.

WANTED—Farmers and horsemen to read our new pamphlet, "How to be your own veterinary." The only up-to-date thing in sight. Write today. It's free. The Equine Specialty Co., Dept. A, Kokomo, Indiana.

FOR SALE or exchange, 12 horse Case engine, Russell saw mill, buzz saw, Gearsco separator and stacker. Price \$2,000. H. E. Carter, Brooklyn, Ia.

FROZEN FISH—Fresh frozen Lake Superior fish, direct from the fisheries to consumers. Write E. Kenner (Wholesale Fish), Duluth, Minnesota.



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

How We Kept Twenty Sheep in Winter.

To the Editor of The Homestead:

My father was a practical farmer and, while we kept quite a good deal of stock, we considered the flock of twenty sheep the most profitable of any stock about the farm for the money invested in them. Their worth was a little over \$100 and their return year after year amounted to about the same sum. In fact, they made back to us their money every year.

Of course, in the summer time they were very little care for they ran out into the green pastures where all their wants were supplied. During the winter they had to be the subject of special attention. A shed running along the east side of the barn fifteen by thirty feet and opening to the south was provided for them. A gate of inch lumber was placed at the opening, and it was constructed of narrow lumber and no higher than necessary so as to admit as much warm sunshine as possible. Along the east side of the shed was placed the racks for the clover hay. It was not built over three feet high and slanted in toward the wall. It was constructed so the sheep would have no trouble in pulling the hay from between the slats. Clover hay was always fed in winter, for we discovered that sheep will

winter on clover or alfalfa with the addition of very little grain.

The feed troughs were made about a foot wide with inch lumber for the sides and two-inch for the bottoms. They were put on legs so as to stand about a foot above the ground. These were placed on the west side of the building and made stationary. Oats and shelled corn mixed were fed night and morning.

The flock was always kept in the shed at night and during stormy weather. Bright and sunny days the sheep were allowed in the pasture or lot. They were salted regularly and given free access to a trough of water.

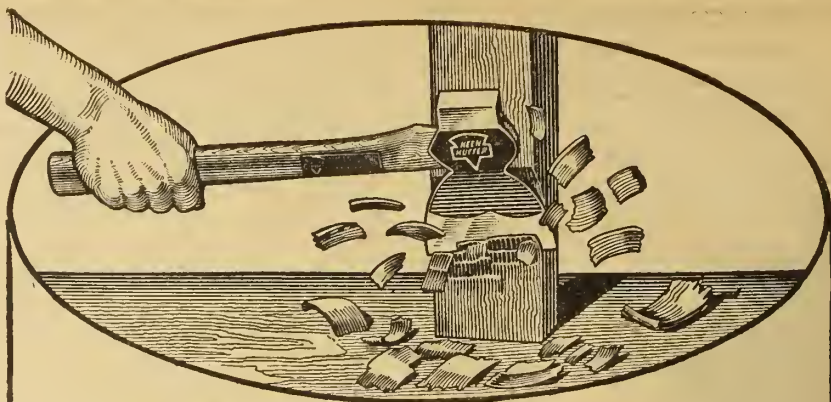
W. D. Neale.

Sheep in the Corn Belt.

To the Editor of The Homestead:

In regard to the adaptability of the sheep industry to corn-belt conditions, will say that I see no reason why nearly every farm need not have at least a small flock of sheep kept upon it. Of course, there are conditions existing which are unfavorable to the welfare of sheep of which I think the wet land is the worst, but not a very large per cent of the corn belt is very wet and, besides, it has been demonstrated that it pays to tile out this wet land even when sheep are not kept and I think it would pay far better if sheep were kept. The benefits were the wet land all tiled out and what sheep it would carry in connection with other stock put upon its farms, can scarcely be comprehended.

Another condition which exists not favorable for keeping sheep is the lack of fencing. This could be easily remedied if men could in some way be shown how quickly they would get their money back with interest if they would go at it and fence their farms. I think the Iowa law in regard to partition fences is all right, as it will have a tendency to encourage men who want to keep sheep to



A Well-Named Hatchet

It takes a mighty good hatchet to stand up under the rough treatment it usually gets. There's one kind of hatchet that will hold a keen edge long after the ordinary "bargain" hatchet has gone to the junk pile. It bears the name

KEEN KUTTER

The metal is best tool steel—the handle well-shaped, second growth hickory. The Grellner Patent Lock Wedge makes it impossible for the hatchet to work loose or fly off the handle. Every Keen Kutter hatchet is edged and hand whetted at the factory.

The Keen Kutter Hatchet is only one of the many Keen Kutter tools for the home and farm. All bear the Keen Kutter trade mark and are guaranteed to give satisfaction or your money will be returned.

"The Recollection of Quality Remains Long After the Price Trade Mark Registered is Forgotten." —E. C. Simmons

If not at your dealer's, write us.

Simmons Hardware Co. (Inc.)
St. Louis and New York, U. S. A.



ROSEINE PENNSYLVANIA KEROSENE

gives one-third more light; increases home comforts, no odor; no smoke, no explosive gases. Ask your dealer for Roseine Penna. Kerosene. Don't ask him for his "best oil" for that may be just common, dangerous oil that gives a poor, yellow, eye-straining light. If he don't have Roseine, he will get it for you if he values your trade. If the oil he sells you for Roseine isn't the best kerosene in the world, it isn't Roseine. Always shipped in yellow barrels bearing our trade mark "Roseine." Roseine is the ideal incubator oil.

SHEEP.



SHROPSHIRE EWES

BUYING registered bred ewes pays if you get the largest and most typical, which raise rams good enough to build a trade. We offer young bred ewes that will make you money. Photos and full description. Won champion ewe, champion flock, recent Chicago International. Near Des Moines.

CHANDLER BROS.,

Chariton, Iowa. Shrewsbury, England.

IOWA'S PIONEER BREEDERS AND IMPORTERS OF

SHROPSHIRE SHEEP

CHOICE IMPORTED and home-bred registered ewes. Bred to imported rams of the best quality; also rams. Prices reasonable, considering quality.

Daniel Leonard & Sons, Corning, Iowa.

Ewes for Sale

THE IOWA STATE COLLEGE is offering for sale 50 head of pure-bred and grade ewes, mostly Shropshires, at very reasonable prices. Address

DEPARTMENT OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.

Pine Ridge Shropshires One thousand ewes bred to the very best imported rams money could buy. These rams are prize winners, personally selected from the best English flocks last July. Prices reasonable. Write for free booklet, "Hints on Sheep Raising." Address owner, L. M. Huntley, Pine Ridge Farm, Salem, Ia.

FIFTY SHROPSHIRE EWES

MOSTLY two years old. We wish to sell to make room for more of different breeding, in order to hold our ram trade in this locality. Who can use the bunch at a great discount? Will sell any number. D. M. Norton, Sanborn, Iowa.

HOME OF THE OXFORD DOWNS. Flock in its forty-eighth year, and finds the Oxfords to be the money makers in the sheep family. Both sexes for sale. T. B. Evans, Geneva, Illinois.

Registered Shropshire Rams and Ewes For Sale. The best of breeding and quality. Best imported rams at head of flock. Willard Miller, Anita, Iowa.

CLOSING OUT SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. W. C. Frazier, Atlantic, Cass Co., Iowa.



Pedro's Pandora, a Jersey heifer on the farm of Messrs. J. Q. Emery & Son, Edgerton, Wis. She is a good representative of the type bred on the Emery farm. See page 47.

they will kill weeds and fertilize the land enough to nearly pay their keep, say nothing about the wool and offspring if the farm is properly fenced.

Some men say they do not know anything about sheep, which may be true, but we all have to learn what we know about any kind of stock sometime or other and I do not see as it is any harder to learn about sheep than other stock. Of course, the better sheep are cared for the better they will thrive and the more profitable they will be. I did not know anything about sheep when I started with them and do not know it all yet, but have found them profitable to have on the farm and the longer I keep them the cleaner and more fertile the land gets. While we may never be able to raise as good sheep in the central West as they do in the old countries, we certainly can raise very good ones. E. O. Smith.

Buchanan county, Iowa.

A farmer out West, says a Kansas paper, has a cow with the lumpy jaw, and he cannot be made to believe that she is diseased, but he says: "Consarn 'er; she hain't nothin' the matter with her. She's got the big head because butter's worth forty cents a pound. That's all."

REPORT OF GATES' DUROCS.

Mr. J. O. Gates pulled off his Duroc sale on his farm one and one-half miles southwest of Sheldon, Iowa, on January 20th. The offering consisted of thirty-seven head—eight tried sows and twenty-nine gilts, and they brought \$1,907, or \$51.54 per head. The prices were good and the offering was good, and the attendance was good, and the sale was snappy from start to finish. Mr. Claude De Vaul, of Inwood, Iowa, secured the highest-priced sow in the sale, being Lady Lynue. He also secured her yearling daughter, Cherry Blossom, at \$75, and one of her gilts at \$50. Lady Lynue had six gilts in this sale that brought \$275, which speaks very well for the product of one sow in one year. Col. Frank Myers, of Sheldon, Iowa, cried this sale very successfully and was commended very highly for his good work, for he had a long, tedious trial of selling farm machinery and other stock on the place before the hog sale commenced, and having to work outdoors in a cold, raw wind he was becoming very hoarse, but being able to hold up in good shape he made the sale snappy from start to finish. Mr. J. O. Gates' hog sale and closing-out machinery sale amounted to \$7,200. Mr. Gates was very well pleased with the general outcome.

Ask your neighbor to subscribe for The Homestead.

WHEELER'S MASTODON SALE.

The much talked of Wheeler sale of Mastodon Poland China bred sows took place at Harlan, Iowa, January 19th, as advertised. It was an unusual occasion and called out an unusually large crowd of buyers from all sections of the hog-raising country. The bidding was liberal and the sale a remarkable success. Thirty-eight head were disposed of at an average of \$97.30. Nothing sold below \$65 and the top price of the sale was \$160, Mr. Nels O. Jensen, of Exira, Iowa, paying that amount for Lady Mastodon 18th, No. 10 of the catalog, a two-year-old daughter of Columbia Chief 2d. The range of prices was exceedingly close from start to finish, and the distribution of the stock covered a wide range of territory, one animal going as far east as Pennsylvania, others to Kansas, Nebraska, Missouri and Iowa. Below we give a complete list of the sale:

Lady Mastodon 91st, September 1, 1907, John W. Noll, Winchester, Kan.	\$122.50
Lady Mastodon 92d, September 1, 1907, A. H. Krumme, Arapahoe, Neb.	125.00
Lady Mastodon 7th, September 27, 1905, Matt Classen, Jr., Spencer, Neb.	120.00
Miss Wonder 3d, September 10, 1906, Clarence Dean, Weston, Mo.	150.00
Ideal 2d, December 25, 1905, Edward Hickey, Gretna, Neb.	97.50
Mastodon Maid 8th, March 9, 1908, J. D. Spangler, Sharon, Kan.	135.00
Lady Mastodon 18th, January 25, 1907, Nels C. Jensen, Exira, Iowa	160.00
Mastodon Maid 2d, March 25, 1908, E. W. Merryman, Irwin, Iowa	105.00
Lady Mastodon 12th, May 25, 1906, Edward Hickey	112.50
Beauty C, June 15, 1907, W. A. Burk, Mill Grove, Mo.	132.50
Mastodon Maid 17th, June 15, 1907, E. R. Melton, Craig, Mo.	70.00
Long Price 3d, September 15, 1907, Geo. M. Vader, Chndran, Iowa	110.00
Lady Wonder 6th, May 30, 1907, J. D. Spangler	100.00
Lady Mastodon 13th, May 24, 1906, A. Von Eschen, Shelby, Iowa	87.50
Lady Mastodon 15th, May 24, 1906, Clarence Dean	90.00
Mastodon Maid 42d, June 3, 1907, J. D. Spangler	125.00
Mastodon Maid 19th, June 3, 1907, W. S. Ivey, Petersburg, Va.	100.00
Mastodon Maid 20th, September 20, 1907, Edward Hickey	85.00
Mastodon Maid 27th, March 12, 1908, same	102.50
Mastodon Maid 28th, March 12, 1908, A. E. Fuller, Oakland, Iowa	85.00
Mastodon Maid 39th, April 5, 1908, same	85.00
Mastodon Princess, April 4, 1909, W. M. Wright & Son, Allen, Neb.	65.00
Mastodon Maid 41st, July 12, 1908, W. O. Rink, Shelby, Iowa	75.00
Mollie Mastodon 2d, March 25, 1907, R. H. Pryor, Shelby, Iowa	125.00
Mastodon Maid 6th, March 6, 1908, Frank Turpin, Harlan, Iowa	67.50
Mastodon Maid 29th, March 20, 1908, H. L. Sullivan, Panama, Iowa	75.00
Mastodon Maid 16th, August 2, 1907, J. G. Long, Harlan, Iowa	115.00
Mastodon Maid 23d, August 2, 1907, J. G. Westrope, Harlan, Iowa	65.00

Mastodon Maid 37th, March 11, 1908, John Laubscher, Mediapolis, Iowa.	77.50
Mastodon Maid 44th, May 24, 1907, R. F. Plumb, Tennant, Iowa.	65.00
Lady Mastodon 37th, April 2, 1906, R. H. Pryor	67.50
Mastodon Maid 32d, September 16, 1908, Lewis Juhl, Gruver, Iowa.	100.00
Lady Columbia 1st, March 19, 1907, J. D. Spangler	90.00
Lady Mastodon 95th, March 9, 1908, Edward Hickey	100.00
Mastodon Maid 5th, March 9, 1908, same	90.00
Mastodon Maid 4th, May 13, 1908, L. A. Robinson, Correctionville, Ia.	67.50
Mastodon Maid 21st, March 9, 1908, W. M. Wright & Son	72.50
Mastodon Maid 6th, April 5, 1908, S. C. Hervey, Irwin, Iowa.	80.00

S. L. HOPPER'S DUROC SALE.

A good crowd attended the sale of Mr. S. L. Hopper, at Neola, Iowa, on January 20th, and forty-three head averaged \$42. Moss Belle, a daughter of Tin Top Chief, out of an Advance dam, topped the sale at \$104, going to Mr. Ben Von Eschen, of Shelby, Iowa. Some of the sows in this sale did not bring enough money, and those who did buy got their money's worth. Colonels Luther and Reppert cried the sale. Below we list those selling for \$25 and above:

Lot.	Price.
1. Moss Belle, Ben Von Eschen, Shelby, Iowa.	\$104.00
2. John Leitzke, Neola, Iowa.	36.00
3. Proud Wonder, C. E. Veak, Essex, Iowa.	73.00
4. Harlan Belle, Frank Desmond, Atlantic, Iowa.	50.00
5. Col.'s Princess, Pat Conroy, Neola, Iowa.	80.00
6. Ruberta G. II., J. P. McCarthy, Neola, Iowa.	38.00
10. Enterprise Queen, James D. Felton, Neola, Iowa.	31.00
11. H. E. Browning, Hershman, Ill.	51.00
12. Pat Conroy	50.00
13. Frank Butterfield, Ankeny, Iowa.	43.00
14. Henry Hukey, Neola, Iowa.	35.00
15. Pat Conroy	49.00
16. Floyd Knapp, Redfield, Iowa.	47.50
17. O. Oolson, Neola, Iowa.	51.00
19. E. E. Handley, Carroll, Iowa.	30.00
20. Chris. Rasmussen, Harlan, Iowa.	25.00
21. James Williams, Marcus, Iowa.	37.00
22. T. J. Link, Winterset, Iowa.	39.00
23. Pat Conroy	41.00
24. R. J. Harding, Macedonia, Iowa.	39.00
25. C. A. Rasmussen.	29.00
26. Same	28.00
28. C. E. Veak, Essex, Iowa.	50.00
29. J. D. McDermott, Wiota, Iowa.	35.00
31. V. L. Gaston, Malvern, Iowa.	26.00
32. John Leitzke	32.00
33. Geo. Blodt, Shelby, Iowa.	31.00
34. Grant Winslow, Neola, Iowa.	28.00
35. John Leitzke	34.00
37. Owen Davis, Audubon, Iowa.	40.00
38. Walter Bowen, Neola, Iowa.	35.00
39. Grant Winslow	25.00
41. Edmonds, Shade & Co., Kingsley, Iowa.	37.50
43. A. J. Menefee, Adair, Iowa.	33.00
44. Chas. Snyder, Atlantic, Iowa.	29.00
45. Hanks & Bishop, New London, Iowa.	48.00
47. E. A. West, Neola, Iowa.	30.00
48. Walter Bowen	75.00
49. Owen Davis	75.00



An Attachment That Harrows While You Plow

The Champion Pulverizer is an attachment for riding plows which was invented by a farmer who wanted to save time in the Spring and Fall of the year when time is very valuable to the farmer, and also to do better harrowing by doing it at the right time.

The best time to harrow is right after the plow when the soil is soft and moist, and where the Champion Pulverizer is used, the surface of the soil is so thoroughly pulverized that all the open spaces are closed and the moisture is kept beneath the surface instead of being allowed to evaporate as is the case when the ordinary method of harrowing is used. Because of this retained moisture, any field where this attachment is used will produce better crops besides saving all the time ordinarily used in harrowing.

It Will Save Its Cost in Two Days' Time

It can be attached to any sulky or gang plow in ten minutes' time, does not add any side draft and can be operated by anyone who can operate the plow.

The blades are made of soft, center, plow steel and scour perfectly. It is made in two sizes. No. 1 has five teeth and is intended for use on sulky plows. No. 2 has nine teeth and is intended for use on gang plows.

When size No. 2 is used on a sulky plow it does the work of two harrowings as it pulverizes each furrow twice. See Illustration

More than a thousand of these Pulverizers will be used this Spring by farmers who used them last year and who, through their use, saved several days' time.

Write today for illustrated circular, prices and testimonials from users.

Union Transfer Company,
Box A
Dubuque, Iowa.

I'll Make You a Price of Only

\$42³⁰

If You Want It.

F. O. B. Waterloo Without Mud-Lugs of Force Feed

—But, remember, you need both, and nobody else can supply you with my Eadliss Apron Force Feed, worth \$25 alone in labor saved.

Information You Want to Know


How Does It Compare with \$125 Spreaders?

Hans M. Johnson, Parkston, Minn.: "I would not trade my Galloway for any \$125 spreader I have ever seen."

Garrett Mathias, W. Mathias, Va.: "It is worth two of the —"

Dewey Hicks, El Reno, Okla.: "Have used a —, a \$135 machine. Couldn't think of changing even."

C. C. Johnson, Morrison, Mo.: "The — isn't in it with the Galloway."



WM. GALLOWAY
The Farmers' Manufacturer

Galloway's New Clincher Proposition for 1910

Manure-Spreader Prices Now Based on 30,000 a Year Capacity

I BAFLE all competition combined to equal my new 1910 Proposition. Get it today. I will crack the whip to the full extent of the law on infringers and imitators. They haven't got the spreader nor the patents, and they know it. I have 11 patents on the Galloway and will protect them. Nobody can get around them.

Freight Prepaid (E. of Rockies and N. of Tennessee) to You Anywhere

Direct from Factory ON 30 DAYS' FREE TRIAL

Money Back at 6% Interest After 360 Days, If My Spreader Does Not Prove a Paying Proposition to You. Quick, Prompt Delivery Now

That is my selling plan. Nobody can beat it. Nobody can touch it. It has them all on the run. Galloway is a whole race-track ahead of all competition in spreader proposition and price. Remember, I pay freight. When I added to my factories the Kemp Manure Spreader Factory, conceded to be the largest in the world, formerly owned by the International Harvester Company, now owned and equipped by me with the very latest automatic machinery throughout, I did this: I called in my factory superintendent and said to him—"How many Galloway Manure Spreaders can my make a day now?" He said, "We can make 100 a day—30,000 a year." I said: "All right—get out your pencil. The first thing you do, figure how much you can save farmers on the price, based on 30,000 capacity." He figured it out mighty quick. He says to me: "If you can sell them we can make them." We can save \$5.00 apiece in cash to the farmers if you can sell 30,000." I said: "That is the idea. That's the stuff. We will do it. They will buy them. They know me and they know my spreader."

THIS WAY ALONE I'LL SAVE THE FARMERS \$150,000 EXTRA, BESIDES \$25 TO \$50 A MACHINE THIS YEAR IN CASH MONEY. Are you one of them? Try me. Get my new Clincher 1910 Proposition and my Catalog today.

Wm. Galloway, President
The William Galloway Co. of America
109 Galloway Station, Waterloo, Iowa

Spend 1 Cent and Make 50 Dollars

BOOK FREE

William Galloway
109 Galloway Sta.
Waterloo, Iowa

Rush your special 30-day, pre-paid-freight proposition to me with your big Galloway free Spreader Catalog.

Name.....

Address.....

City or Town.....

County.....State.....

IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. Besides the Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader, remember, also, the Galloway Cream Separator; also Gasoline Engine on same direct plan. If interested, ask for my Engine or Separator Catalog—Free. Say which.

The Great Galloway Line of Spreaders

Which One May I Send to Your Farm—for a Month's Free Trial?

—FREIGHT PREPAID

60-bu. Size

60-55-bu. Size

60-65-bu. Size

65-bu. Size

70-bu. Size

Five Sizes 50 to 70-bu.

All Complete 70-bu. Size Only \$90, Including Gear, Force Feed and Mud Lugs

Fits Your Own Truck or Wagon

Freight Paid East of Rockies and N. of Tenn.

Dates Claimed for Live Stock Sales.

ABERDEEN ANGUS CATTLE.

Mar. 10, M. H. Donohoe, Holbrook, Iowa.
 Mar. 11, Wm. Cash, Williamsburg, Iowa.
 Mar. 16, Breeders' sale, M. A. Martin, Mgr., Wall Lake, Iowa.
 Mar. 17, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 7, James Williams, Marcus, Iowa.
 June 8, Stanley Pierce and John Evans, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Palmyra, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 20, C. M. Russell, Carroll, Iowa.

SHORT-HORN CATTLE.

Feb. 8, McCullough & Johnson, Steen, Minn.
 Feb. 9-10, C. R. Steele, Ireton, Iowa.
 Feb. 17, G. H. Burge, Mt. Vernon, Iowa.
 Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Mar. 15, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 April 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
 Apr. 28, Henry H. Kuper, Humboldt, Neb.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 16, N. A. Lind, Rolfe, Iowa.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.

HEREFORD CATTLE.

Feb. 10, Dispersion sale, Table-backed Herefords, W. W. Wheeler, Harlan, Iowa.
 Mar. 1, 2, 3, C. A. Stannard, Emporia, Kan.
 Mar. 16, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 April 16, James E. Logan, Kansas City, Mo.

DUROC JERSEY SWINE.

Feb. 7, Whitehall Farm, Yellow Springs, O.
 Feb. 7, John Goddard, Harlan, Iowa.
 Feb. 8, S. E. Eakle & Sons, Prophetstown, Ill.
 Feb. 8, Watt & Foust, Dayton, Ohio.
 Feb. 8, S. W. Stewart, Kennard, Neb.
 Feb. 9, C. E. Walden, Washta, Iowa.
 Feb. 9, Henniger Bros. & Smith, Geneseo, Ill.
 Feb. 9, O. S. Larson, Logan, Iowa.
 Feb. 9, Ira Jackson, Tippecanoe City, Ohio.
 Feb. 9, J. E. Davis, Fairview, Kan.
 Feb. 9, C. E. Walden, Washta, Iowa.
 Feb. 10, Geo. B. Buck & Geo. L. Miller, Sunny Hill, Ill.
 Feb. 10, S. E. Morton & Co., Dayton, Ohio.
 Feb. 11, Mahan Bros., Osborn, Ohio.
 Feb. 11, O. E. Osborn, Weston, Iowa.
 Feb. 11, E. J. Brown, Osceola, Neb.
 Feb. 12, A. F. Hager, Osceola, Iowa.
 Feb. 17, Frank Elder, Green, Kan., at Clay Center, Kan.
 Feb. 17, A. W. Lamb, Albion, Neb.
 Feb. 18, A. R. Barnes, Petersburg, Neb.
 Feb. 19, E. B. Ryan, Neola, Iowa.
 Feb. 21, W. C. Cameron, Herman, Neb.
 Feb. 22, R. L. Wilson, Chester, Neb.
 Feb. 23, G. Van Patten, Sutton, Neb.
 Feb. 24, Geo. Briggs & Son, Clay Center, Neb.
 Feb. 25, Con McCarthy, Henderson, Neb.
 Mar. 9, Lien Bros., Platt, S. D.

REPPERT'S WESTERN SALE CIRCUIT.

Feb. 14, E. Z. Russell, Blair, Neb.
 Feb. 15, M. S. Moats, Missouri Valley, Iowa.
 Feb. 16, C. W. Huff, Mondamin, Iowa.
 Feb. 17, Jno. R. Tupper, Woodbine, Iowa.
 Feb. 18, W. L. Hull, Logan, Iowa.
 Feb. 19, E. B. Ryan, Neola, Iowa.

POLAND CHINA SWINE.

Feb. 8, James Cockerton, Whiting, Iowa.
 Feb. 8, F. G. Paul, Marshalltown, Iowa.
 Feb. 9, C. W. Phillips, New Sharon, Iowa.
 Feb. 9, Thos. F. Walker, Alexandria, Neb., at Fairbury, Neb.
 Feb. 9, C. W. Phillips, New Sharon, Iowa.
 Feb. 10, W. H. Cooper, Hedrick, Iowa.
 Feb. 10, H. B. Francisco, Hastings, Neb.
 Feb. 11, R. W. Halford, Manning, Iowa.
 Feb. 14, J. H. Hitch, Geneva, Neb.
 Feb. 15, O. N. Remington, Tekamah, Neb.
 Feb. 16, Cavett Bros., Phillips, Neb.
 Feb. 16, Wm. Lentz, Ankeny, Iowa.
 Feb. 17, E. D. Keasy, Wiota, Iowa.
 Feb. 24, Ruebel Bros., Marathon, Iowa.
 Feb. 24, Dispersion sale, Mastodon Poland Chinas, W. W. Wheeler, Harlan, Iowa.
 Feb. 25, M. P. Hancher, Rolfe, Iowa.
 Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Feb. 26, J. W. Pfander & Sons, Clarinda, Ia.

BERKSHIRE SWINE.

Feb. 11, J. W. Ogle, Ames, Iowa.
 Feb. 15, W. R. Holt, Falls City, Neb.
 Feb. 15, John C. Miller, Harlan, Iowa.

CHESTER WHITE SWINE.

Feb. 8, M. J. Desmond, Waterville, Iowa.
 Feb. 24, J. H. Stewart, Dickens, Iowa.

JACKS AND JENNETS.

Feb. 28, J. W. Finley, Higginsville, Mo.
 Mar. 1 and 2, L. M. Monsees & Sons, Smithton, Mo.
 Mar. 3, Petty Bros., Sedalia, Mo.

PERCHERONS.

Feb. 8-9, H. G. McMillan & Sons, Rock Rapids, Iowa, sale in Sioux City, Iowa.
 Feb. 17, James Loonan and T. F. Glenny, Waterloo, Iowa.

HOLSTEIN-FRIESIAN CATTLE.

Feb. 8-9, Henry C. Glissman, Omaha, Neb., sale at So. Omaha, Neb.
 Feb. 19, Gay Stock and Dairy Farm, Madison, Wis.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 Fred S. Larkin, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address 2525 Erskine St., Omaha, Neb.
 A. W. Hopkins, Wisconsin. Address Fair-Block, Madison, Wis.
 T. Parker, northwestern Iowa. South

Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Duroc Jersey boars are offered for sale by Messrs. John H. Tryon & Son, Lyons, Neb., at \$25 each while they last. Write them at once and send them an order.

Forty head of Chester White bred sows and gilts are advertised for sale by Mr. S. J. Philson, of Harlan, Iowa, on page 41. These are bred for March, April and May farrow.

Mr. John Schmieder, breeder of Poland China swine, Remsen, Iowa, has a few choice sows and gilts bred to Schmieder's Big Surprise and King Corrector which he is offering for sale in his advertisement which appears on page 41.

Look up the advertisement of Mr. Ben Bohlander, of El Paso, Ill. He is offering Percheron stallions and mares for sale that are right and priced right. He just grows his horses well, but does not keep them fat. In this condition they will do the purchaser the most good. See page 41. When writing please mention this paper.

Mr. J. August Carlson, of Ogden, Iowa, announces in an advertisement on page 41 that he has for sale one Percheron stallion coming three years old, one mare the same age, and one mare coming nine years old. He advises us that these are extra good ones and that he will make a price to suit the buyer. Write him as per address given above.

Mr. F. A. Ham, of Saronville, Neb., in instructing us to start his advertisement, writes that he has a number of Duroc Jersey bred gilts for sale. They are sired mostly by Poca Chief. They are not overly large, as Mr. Ham has been short of feed, but they are in the best of condition to do the buyer good, and he will price them right. See advertisement on page 41.

The advertisement of the American Swineherd will be found on page 29 of this paper. The American Swineherd is a pioneer publication in the interests of the swine breeder and pork producer and is at all times endeavoring to forward the interests of the farmer in the matter of breeding and a study of his business, including market conditions. While, of course, the object of the advertisement is to add to the circulation of the American Swineherd, the subscriber will receive additional benefit from the receipt of the progressive scientific feeding formula for increasing the gain while feeding fattening hogs. This formula is one which has an immense value and it may be secured, together with four years' subscription to the American Swineherd, by sending \$1 to the American Swineherd, 505 Como Bldg., Chicago, Ill.

Mr. C. L. Thuirer, of Postoria, Iowa, will hold his annual sale of Poland China brood sows on February 3d. Fifty head of sows have been cataloged for this sale. They are of the large type and prolific kind. There will be five tried sows, ten fall gilts and twenty-five spring gilts. They are daughters of Crow's Model 2d, Onward, Producer, Sunshine T., Surprise Wonder and Long Tom. They have been bred to Crow's Model 2d, Long Dude Jr. and Onward 2d. While the entire offering are excellent, particular attention is called to the qualities of the aged sows and fall gilts. Three of the former are two-year-old daughters of Mollie Fair 6th. They are sired by Long Tom and have been bred to Crow's Model 2d. The crosses which produced these sows have all been of the large strain on both sides and there is, therefore, more than usual promise of continued reproduction of size. They are large, very smooth and have exceptional good quality. Buyers can make no mistake in selecting one of them. Another of the aged sows is Look Again 6th that goes into the sale bred to Crow's Model 2d. Lady Tecumseh 2d is another sow that goes in as an attraction and is really one of the very best in the lot. Still another extra good one is Wonder A., sired by Surprise Wonder and bred to Onward 2d. The fall gilts are all good and spring gilts combine to make one of the best bunches to be sold this year. There is not a mean one in the offering and so even is the quality that it would be a hard matter to select the best. Buyers may be assured of getting satisfactory animals from this lot. Those who are unable to attend may forward bids to Mr. E. T. Parker, representative of The Homestead, who will be in attendance. It should be remembered that this sale is one of the series of big Poland China sales, the first being that of Mr. E. Gritters, at Hull, Iowa, February 1st, followed by Mr. W. J.

Crow's, at Maclay, Iowa, February 2d. See advertisement on page 45.

Mr. E. B. Ryan, of Neola, Iowa, offers a good Short-horn and a good Polled Durham bull for sale on page 41. Read his advertisement and write him at once.

Poland China sows of the very best breeding and the best of individuals are offered for sale at private treaty by the Messrs. Williams Bros., Villisca, Iowa, on page 53. They are not holding a public sale this winter and are, therefore, selling these sows at private sale. They have the very best known to the breed and their prices are reasonable. Write them at once and kindly mention The Homestead.

One of the public sales of Poland China brood sows which must attract the attention of breeders because of the unusual high character of the offering from all points of view is that of Mr. E. D. Keasey, at Wiota, Iowa, who sells on the 17th of February. A splendid consignment of fourteen mature sows heads a list of about sixty head. There is not one of them that would not grace the best herd in the West. Additional details will be given in later issues of The Homestead.

Twenty-five choice Duroc Jersey brood sows, bred for March, April and May farrow, are advertised for sale by Mr. T. J. Link, of Winterset, Iowa, on page 41. These sows are sired by Mammoth Critic, Belle's Chief I Am and Link's Ohio Crimson. These sows are bred in the purple and are good individuals. Mr. Link has declared off his public sale and therefore is going to sell these sows privately. Write him at once and get his prices. Kindly mention The Homestead when writing him.

A representative of The Homestead last week inspected the consignment of Poland China brood sows that Mr. F. G. Paul, of Marshalltown, Iowa, is to sell on February 8th. A day or two later he met another breeder who had made a visit to the Paul herd and that gentleman made the expression that the Paul consignment was one of the best that he had seen this year and that while it had remarkable size it had also wonderfully strong points with reference to back, feet, smoothness and finish. It would be hard to add anything that would give more confidence than this statement. The consignment consists of nine mature sows (daughters of Monarch, Look up and Weighed In The Balance), six fall sows (by Balanced Jumbo, Donald Lad and Teddy Perfection), and thirty spring pigs (daughters of Balanced Jumbo, Delmas and Donald Lad). They will have been bred to Balanced Jumbo, Perfection Meddler, Chief, Price 3d and Modesty Jumbo. The larger proportion of this consignment traces directly in their blood lines to the herd of Mr. Jacob Grossman, of Lanark, Ill., than which none stands higher in the estimation of the best breeders for more than a score of years. The breeding is based in a large proportion on the blood of old Nelson and he, at a time when size was also considered essential, was the biggest hog of the breed. There are several individuals worthy of particular mention. First of these would be Modesty On, the wonderful brood sow whose remarkable record was noted in our last issue, and second in interest would be Modesty E. P., a great, big, splendid brood sow and a producer, as will be shown by the fact that she has two most excellent gilts in the sale. This grand old sow has been raising two litters a year and goes into the sale bred to Balanced Jumbo. Of scarcely less interest is Beauty May, a daughter of Prince Donald. This is a wonderful sow, weighing from 700 to 800 pounds. She is also a producer, having two fall yearlings in the sale. She is bred to Balanced Jumbo for an early litter. There are, however, a considerable number that stand right up near the front, but lack of space prevents us from giving them extended notice. We advise our readers to send for copy of the catalog and get the detailed information. Address Mr. F. G. Paul, Marshalltown, Iowa. The sale will be held in town under comfortable shelter and every endeavor will be made to add to the convenience of those in attendance. See advertisement on page 45.

D. H. WARNER'S DUROC AND SHROPSHIRE SALE—LAST CALL.

If you haven't already received a catalog of the sale of Duroc Jerseys and Shropshire sheep to be held by Mr. D. H. Warner, near Tippecanoe City, Ohio, on February 5th, you should send for one at once. He is selling fifty choice bred sows and thirty fall boars and sows. They are of the best blood lines known to the breed. They trace directly to Orion Chief, King of Cois., Pilot Wonder, Kruger and others. He is also selling fifty-eight head of Shropshire sheep consisting of six rams and fifty-two ewes. The ewes are

all imported or sired by imported rams and are all bred to imported rams. These sows are of the best breeding and will undoubtedly sell too cheap. If you can't attend, send a bid to Mr. Fred Reppert, sale manager, at H. L. Igleheart, auctioneer, in care of Mr. Warner.

POLLED DURHAM DISPERSION.

Mr. J. J. Holland, of Oxford, Iowa, announces the dispersion sale of his entire herd of Double Standard Polled Durham cattle to take place at Oxford, Tuesday, February 15th. His announcement will be found on page 43 of this paper. Additional details will be given in a later issue of this paper. Catalogs may be had on application to address given.

JOHN GODDARD'S BROOD SOW SALE.

On February 7th, in the heated sale pavilion in Harlan, Iowa, Mr. John Goddard will sell forty head of the most richly-bred Duroc Jersey brood sows that will be sold in western Iowa this year. Many of these will be bred to Goddard's Colonel, a son of Prince of Colonels, he by Carl's Colonel, and his dam is a daughter of the great Ohio Chief. This boar is by far one of the best Colonel boars that has been seen in the West, and it will pay the breeders to attend this sale if for no other reason than to see this pig. When we say this pig is good all over, we mean just what we say, and it will certainly pay any of the boys to buy a sow bred to him. He is assisted by Massena Chief, a litter brother to Valley Chief. This is the hog that defeated Valley Chief at Red Oak, Iowa, in the six months class. Here is one of the best Ohio Chief boars in the state, massive in size, smooth as a ribbon, a typical Ohio Chief in every way. He is a litter brother to Peerless Chief, at the head of Mr. A. F. Hager's great herd. This was the best litter Ohio Chief ever sired. It included Valley Chief, now dead, at the head of Messrs. Putnam's and Sexsmith & Strong's herd; Massena Chief, at Mr. Goddard's, and Peerless Chief, at Mr. Hager's. Kruger Advance is by Kruger Lad, dam Clermont's Gift by Proud Advance. This hog was sixth at Des Moines, 1909. In a large show of fifty or more he won three championships at the three largest county fairs in the state. Two Model Chief sows are by Clermont's Price by Clermont's Model, he by Model Chief. She was first at Des Moines, 1908. She is bred to Massena Chief for early farrow. Here is one of the great brood sows to be sold this winter. Miss Bredwell XX. is another pig good one; to see her is to want to own her. She is a good one from end to end. She is bred to Massena Chief for March litter. One Queen of Colonels sow is sired by Muncie Chief. This is another fine sow, and is bred to Massena Chief for early farrow. Miss Lafollette by Lafollette, dam Glendale Anna by Glendale Critic, is bred to the great Colonel boar, Goddard's Colonel. Fancy Baby by Ohio Colonel by Ohio Chief and a granddaughter of Keep On III. is a great sow bred to Goddard's Colonel. Two Valley Chief yearlings, one Valley Chief gilt bred to the Colonel boar, and two Colonel gilts are bred to Massena Chief for early farrow. There will be fifteen brood sows, five fall yearlings and twenty gilts in this sale, which will be pulled off at Harlan. Mr. M. T. White, Homestead representative, will attend the sale, and any bids sent in his care will be attended to on site day. See page 44 for advertisement.

COCKERTON'S BIG-TYPE POLAND CHINA SOW SALE.

On February 8th, at Whiting, Iowa, Mr. James Cockerton will make a public sale of forty-eight head of his celebrated big-type Poland China brood sows, and it is an offering that we can commend to all lovers of the big-boned kind of Poles. The Cockerton herd is one of the best herds today in western Iowa and Mr. Cockerton is one of the very best hogmen in the state. His type is the large kind, with as much quality as is consistent with a large bone and a big body. The forty-eight head that he is selling in this sale are a representative lot in every way and a better offering will not be sold this year in that section of the state. So, then, if you are wanting some good Poland Chinas, it will pay you to go to the Cockerton sale. There are twenty-nine head of yearling and matured sows in the sale and nineteen head of gilts. For a number of years Mr. Cockerton has used old Standard Chief 2d at the head of his herd and a large per cent of this offering will be closely related to him. He is a son of Standard Chief, the boar that did so much in the herd of Messrs. Strader Bros., and his dam is Daisy Shine by Trenton Shine. This boar was one of the best herd boars used of late years in western Iowa. Some of the best sows in the sale will be sired by this boar. Just now he is using Sioux Chief, a son of Mr. John Miller's Dry Creek Chief, out of a Longer dam, and he is an excellent boar. This boar won second price at the Interstate Fair and his other boar is Longfellow by Longfellow 2d out of a Hadley dam. No. 1 of catalog is Dude's Daughter, a yearling daughter of Winning Dude, out of a Standard Chief 2d dam, and she is one of the very choice things in the sale. She is bred to Sioux Chief for March farrow. Lady Whiteface is a daughter of Standard Chief 2d and her dam is Lady Mastodon 33d by Surprise Wonder 5th. She is a 700-pound sow when in condition and has been one of his best brood sows. She is also bred to Sioux Chief for March farrow. Mollie King is a daughter of Long Chief and Mollie is a daughter of Monarch Jr.; both are extra choice brood sows. One is bred to Sioux Chief and the other to Longfellow for an early farrow. We want the breeders on sale day to look at No. 8 of catalog. She is a daughter of Standard Chief 2d and her dam is Tribby Mastodon by old Mastodon, and she is bred to Sioux Chief for a March litter. She combines more quality and size than anything in the sale and she is a sow that will look good in any herd. There are quite a few sows in this sale that are sired by Winning Dude, a son of Nemo L's Dude, and there are some very choice sows among these. The offering as a whole is one that we can recommend to both breeders and farmers who are wanting size and quality combined. What you buy of Mr. Cockerton will be right or he will make it right and that is a recommendation that



Great Hadley 50164, the great Poland China sire whose progeny in the sale of Mr. H. B. Francisco, of Hastings, Neb., on February 10th, are without question, the grandest lot of big, smooth, strong individuals to be sold in Nebraska this sale season. Not fat, but big, well-grown, smooth ones and are worthy of any breeder in America who desires the best. Write for catalog, kindly mentioning Homestead. See page 42.

means something. Send for his catalog at once and mention The Homestead. Our Mr. M. T. White will be present at his sale and will attend to any bids sent in his care. See page 44 for advertisement.

POLAR STAR GOES TO CANADA.

Messrs. McLaugh & Sons, of Janesville, Wis., America's Clydesdale specialists, write: "We report the sale of the grand, big aged stallion, Polar Star, to Messrs. Colquhoun & Beattie, of Brandon, Manitoba. For a big, well-balanced, bold-going, high-headed, strong, clean-boned, perfect-footed horse he has had few equals among importations in recent years. He will be remembered as a favorite by the outside critics in the prize list at the recent International. Also the flash, good three-year-old, Royal Temple, is in his new home in Minnesota, having been sold to Messrs. Chas. & Geo. McKay. See, page 50.

COLONEL REPERT'S WESTERN DUROC JERSEY SALE CIRCUIT.

One of the greatest offerings of Duroc Jersey brood sows that will be sold this winter will be included in the Colonel Repert Western Sale Circuit, beginning at the home of Mr. E. Z. Russell, Blair, Neb., on February 14th; M. S. Moats & Son, Missouri Valley, Iowa, February 15th; C. W. Huff, Mondamin, Iowa, February 16th; John R. Tupper, Woodbine, Iowa, February 17th; W. L. Hull, Logan, Iowa, February 18th, and E. B. Ryan, Neola, Iowa, February 19th. Every one of these offerings will be high class and will include some of the very noted sows of the breed. They are all bred to most excellent herd boars and it will be a good place for those wanting Duroc Jersey brood sows to attend. A card to each one of the above breeders will bring back to you his catalog, and we urge upon all of our readers to send for it at once and kindly mention The Homestead when writing. We will give extended information in next week's issue of the different offerings that will be sold during the week. See page 41.

LAST CALL FOR LONERGAN'S BIG VICTOR SALE.

February 4th promises to be a red letter day at Florence, Neb., when Mr. D. C. Lonergan sells his forty-five head of Poland China brood sows. The major portion of his offering is either sired by or bred to his noted boar, Big Victor, considered one of the greatest boars of the breed today in Nebraska. Included in this sale will be twelve fall sows sired by Big Victor and Guy's Price 2d that are hard to beat. Two of the very best of these are by Big Victor and out of Mr. Lonergan's famous old brood sow, Hazel Price, and there are three crackling fall sows and three good spring gilts by Big Victor and out of Side Pocket, one of the best money-making sows Mr. Lonergan has ever had in his herd. The dam of these is also the dam of the highest-priced boars and sows he has ever sold. There are several other very choice fall sows in the sale sired by Big Victor and Guy's Price 2d, and they will look good to Poland China breeders on sale day. He is selling a crackling good lot of spring gilts, largely sired by Big Victor, and there is not a poor one in the bunch. There will also be seven good spring gilts in the sale that are sired by King's Hadley, the sweepstakes Nebraska State Fair boar, 1909, and among these are some very good ones. The most of these are bred to Big Victor. The offering as a whole is a good one throughout and Poland China breeders who are looking for something choice in both individuals and breeding will find it in the Lonergan sale. Write for his catalog at once and mention The Homestead. Mr. M. T. White will attend the sale for The Homestead. See advertisement on page 45.

O. E. OSBORN'S BROOD SOW SALE.

On February 11th, at his home farm near Weston, Iowa, Mr. O. E. Osborn will make his annual sale of Duroc Jersey brood sows, at which time he will sell forty-five head of tried sows and spring gilts. Mr. Osborn is one of the oldest breeders in the business and in his time he has bred some good things. The "Nancy" strain, noted as one of the best strains of Duroc Jerseys, originated in his herd and these sows were excellent breeders wherever they were found. His forthcoming offering is one of the very good ones of the year. Mr. Osborn's herd boars are second to none in the state. Model Critic is by Glendale Critic, dam Ohio Bell XI, she by Milton Orion. This boar won second at Des Moines and Lincoln, 1909, and was defeated by the same boar at both shows. Here is one of the smoothest hogs you ever saw; two good ends and middle, good color and head, ear and eye; in fact, he is a plum good one all over and a hard one to beat. Some of the best sows in the sale are bred to him. His pedigree could not be beaten if you wrote all day. He is assisted by Proud Commodore, sired by Commodore and out of a Proud Advance dam. Here is a good boar of massive proportions, heavy ham, extra large bone and a fine breeder, as you can see by his get on sale day. Here is a boar bred in the purple from sire and dam. There are two Ohio Chief sows, one Ruby by Ohio Chief, bred to Model Critic for early March litter. This no doubt is the best sow in the sale, being large, with very strong bone, good ends and fine color and one of the best mothers Mr. Osborn now owns. You can send a long bid on this sow and not be disappointed in the results, for this should make a great cross. One good yearling by Ohio Chief is bred to Model Critic and the results should be great. One sow by Baxter's Buddy III is bred to Model Critic. Two fall yearlings by Crimson Critic is bred to Proud Commodore. Six are by Protection Again and these are good ones. Five are by Lafollette, three bred to Model Critic, two to Crimson Chief; three granddaughters of Kant Be Beat, two of them bred to Model Critic, one to Commodore; four Crimson Critic gilts, two bred to Proud Commodore, two to Crimson Chief for early farrow, one cross on Wonder III, one of the best gilts you ever saw. No doubt one of the best is sired by Protection Again. The gilts of this offering are good colors, good length, good size and as fine a bunch as you would care to look at. Everyone of them bred in the purple and as good herd boars as the state can produce. Mr. Osborn will appreciate it very much to see you at his sale. If you cannot

be there in person, send your bid to our Mr. M. T. White, Homestead representative, who will care for you on sale day. See page 41.

THE FORD STOCK FARM.

The Ford Stock Farm, of Parker, S. D., have on hand imported and home-bred Percheron and Belgian stallions and mares. They advise us that many prominent breeders of the Northwest purchased animals from the Ford Stock Farm and express themselves as well pleased with their purchases. While just at present the demand has cleaned out the entire supply of imported mares they are daily in expectation of another importation and will again be able to supply their customers. See the advertisement on page 49 and for additional facts write to Messrs. Ford & Harrington, Parker, S. D.

A GRAND OFFERING OF SHORT-HORNS.

Messrs. McCullough & Johnson will hold a draft sale of Scotch and Scotch-topped Short-horns at their farm, two miles north of Lester, Iowa, and five miles south of Hills, Minn., on February 8th. They have cataloged fifty head—forty-two females and eight bulls. There are twelve cows with calves at foot; among them one Scotch imported cow; also her daughter, got by Nonpareil, she with a heifer calf at foot by Grand Baron. The Scotch offering will be three females and two bulls. The American families are mostly Young Mary, Rose of Sharon and Arabella. There are nineteen head of one-year-old and two-year-old heifers, and a better string of young heifers has not and will not go through a sale ring this year. They are mostly the

put up at public auction they always are at the top of the sale. One of his daughters sold in Mr. Kraschel's recent sale for \$205 and one in Messrs. Baxter & Camer's sale for \$150. We have heard several breeders, who are in position to know, say that Helen's Chief is one of the greatest, if not the greatest breeding boar in the country today. Breeders will look forward to the produce of this great boar when mated with the great sows in the Kraschel herd. Mr. Kraschel will sell King's Colonel by King of Colonels at a reasonable price. He is sold for no fault. Write him for price.

FANCY DUROC JERSEYS.

It is the privilege of every breeder and the duty of every farmer to interest himself in the betterment of the hog stock on his farm. We know of no better chance to do this more effectively than to buy the splendid brood sow, Fancy P. 2d, that is included in the public sale of Duroc Jerseys to be held by Mr. Geo. H. Purdy, at Mason City, Iowa, February 3d. Fancy P. 2d is a real brood sow. She is one that Mr. Purdy unhesitatingly says belongs to the best strain he has on the farm. She has been producing fall and spring litters and pigs that were winners at the Iowa State Fair, as well as other fairs wherever shown. She is herself a daughter of Model Improver, the sweepstakes hog at the Minnesota and Wisconsin State Fairs last fall, and on the side of the sire traces back to Improver 2d, in his day one of the most prominent hogs of the breed. Her dam was a great producer and there is a strong family characteristic for

hog. The Duroc Jerseys are by Maxwell Orion (he by Manley Orion) and they are bred to R. A.'s Model. The latter hog carries a strong infusion of Crimson Wonder blood. Messrs. Jefferies will also sell four grade Shire horses coming two years old, one three-year-old registered Shire stallion and two good Short-horn cows. For additional particulars see the advertisement on page 53. For catalogs write to Messrs. R. A. Jefferies & Sons, Rock Rapids, Iowa.

A CRIMSON WONDER AGAIN CORRECTION.

A slight error crept into the note on page 48 of the last issue of The Homestead with reference to the pedigree of the Duroc Jersey boar, Crimson Wonder Again. It was there stated that Crimson Wonder Again was a son of Crimson Wonder 3d. Of course every breeder knows that this was a mistake and that he was a son of the great Crimson Wonder I Am whose sensational winning of the championship at the Iowa State Fair made him a hog of unusual note. We make this correction out of deference to Mr. Allen who is a stickler for correctness in the matter of pedigrees of his stuff.

BALMAT'S LAST CALL.

Messrs. Balmat & Son, of Mason City, Iowa, will, on February 2d, send into the sale ring their annual consignment of Duroc Jersey brood sows. We can give no more valuable information to our readers than that conveyed in the catalog of this sale. A representative of The Homestead has seen the stock and unhesitatingly pronounces the animals to be good from one end to the other. Those who looked for size with symmetrical proportions and stylish finish can be so well suited nowhere else. These points stand out strong and strikingly. Previous items in these columns have given details as to the blood lines involved. Breeders are urged to attend this sale, as it contains quality not to be found outside of the show ring.

LAKEWOOD PERCHERONS.

The Homestead is glad to again call the attention of its readers to the advertisement on page 49 of the great Percheron horse sale to be held by Messrs. H. G. McMillan & Sons, at Sioux City, Iowa, February 8th and 9th. Twenty-five of the 100 head cataloged are stallions coming three years old and fifteen are yearling stallions. Forty-five are mares from two to eight years old and fifteen are yearling fillies. About twenty of the offering will be the get of that famous sire and undefeated champion, Calypso. A representative of The Homestead, who has inspected the entire number, insists that the two-year-old stallions are an extraordinary good lot, the consignment showing uniformly good legs and feet, belonging to the ton type and with a general attractiveness of appearance that cannot fail to please those who know good horses. The yearlings are of the same kind. These horses have been selected for the express purpose of making this sale a special one. A large proportion of them have show-yard merits and many of them have been actual prize winners. The aged mares have mostly been bred to Calypso and the Calypso daughters have been bred to the International champion, Cartilage, and this cross should make them exceptionally desirable and of high promise. Mr. H. G. McMillan, himself, believes this lot to be better than any previous consignment. His intention has been that every one should be a good one and the hope is that this will be the banner sale from the Lakewood Farm. Their horses may be inspected at any time before the sale, as they are at present in the stock-yard barns at Sioux City. Catalogs may be secured by writing to Messrs. H. G. McMillan & Sons, Rock Rapids, Iowa.

LAST CALL THOS. JOHNSON & SONS' GREAT DUROC SALE.

The sale of Duroc Jersey brood sows to be held at the farm of Messrs. Thos. Johnson & Sons, near Columbus, Ohio, might be justly named an Orion Chief and High Chief sale. With three exceptions all the sows in the sale are bred to the above two World's Fair prize-winning boars. Mr. Johnson has always seen the value of a good sire and has bought the best sires available since he has been breeding Durocs. Two years ago he purchased Orion Chief for \$3,500 and he was worth it when you think of the scores of prize winners he has sired for Mr. Ira Jackson, his former owner. The champion sow at the Ohio, Indiana, Kentucky and Tennessee State Fairs, 1909, was sired by him, as also were the first-prize aged sow and the first-prize senior yearling sow at the Illinois State Fair, 1909, and also the grand champion sow at the International stock show. If you want to raise a prize-winning litter buy a sow bred to Orion Chief, as twenty-five of them will be sold in Messrs. Johnson's sale on February 3d. Twenty-five sows are also bred to High Chief, the prize-winning son of Orion Chief, and the sire of the grand champion boar at the Indiana State Fair, 1908, and this same boar was first in the aged class at the 1909 Indiana State Fair. Three sows are bred to Col. Chief by Prince of Ools. Twelve sows sired by Orion Chief will be bred to High Chief for the sale. Now it seems to the writer, a representative of The Homestead, that, after inspecting this offering, there are few breeders but what could profitably use a sow bred to some of these great boars. Other sows and gilts in the sale are sired by such noted boars as High Chief, Col. Gladness, Grand Success, Chief Orion, Tippy Col., Carl's Col., Red Corrector, Oakland King, Col. King, Rich Creek King, Oak King, Chief Success, Gold Bond, Wilda's Col., Model Top and others. Such an array of popular breeding should appeal to any up-to-date breeder. Messrs. Johnson are in the business to stay. The permanency of their new \$4,100 modern cement block hog house is positive proof of the above statement. Messrs. Johnson are constantly improving their herd by adding new blood lines coupled with the best individuality that they can find. The sows are all safe in pig and are guaranteed to farrow within five days of the time they say they will. Don't be afraid to send a good bid on a sow bred to one of these boars. They will make you money. Send for catalog at once, kindly mentioning The Homestead. Their advertisement appears on page 53. Bids sent to Mr. Carlos C. Palmer, Homestead field man, in care of Messrs. Thos. Johnson

NEXT WEEK'S SALE PROGRAM

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| Monday,
January 31 | { Duroc Jerseys, Olson Bros., Woodward, Iowa.
Herefords, D. S. O'Leary, West Liberty, Iowa. |
| Tuesday,
February 1 | { Draft Horses, C. W. Hurt, Mgr., Bloomington, Ill.
Duroc Jerseys, W. R. Bennethum, Madrid, Iowa.
Duroc Jerseys, Geo. Schmal, Sutton, Neb.
Duroc Jerseys, John H. Tryon & Son, Bancroft, Neb.
Poland Chinas, E. Gritters, Hull, Iowa. |
| Wednesday,
February 2 | { Draft Horses, C. W. Hurt, Mgr., Bloomington, Ill.
Duroc Jerseys, O. T. Balmat & Son, Mason City, Iowa.
Duroc Jerseys, F. B. Butterfield, Ankeny, Iowa.
Duroc Jerseys, Thomas Gossard, Ponca, Neb.
Poland Chinas, W. J. Crow, Maclay, Iowa. |
| Thursday,
February 3 | { Draft Horses, C. W. Hurt, Mgr., Bloomington, Ill.
Duroc Jerseys, Edmonds, Shade & Co., Kingsley, Iowa.
Duroc Jerseys, Thomas Johnson & Sons, Columbus, O.
Duroc Jerseys, G. H. Purdy, Mason City, Iowa.
Percherons and Shires, A. P. Mason, Union, Iowa.
Poland Chinas, Farver Bros., Ocheyedan, Iowa.
Poland Chinas, John H. Fitch, Lake City, Iowa.
Poland Chinas, C. L. Thuirer, Fostoria, Iowa. |
| Friday,
February 4 | { Draft Horses, C. W. Hurt, Mgr., Bloomington, Ill.
Duroc Jerseys, H. L. Cantine, Quimby, Iowa.
Poland Chinas and Duroc Jerseys, R. A. Jefferies & Sons, Rock Rapids, Iowa.
Poland Chinas, D. C. Lonergan, Florence, Neb. |

daughters of Grand Baron and Vulcum. The older females are a grand lot, mostly red in color, very large in size and of that low-down, blocky type, and mostly all young and in their full usefulness. The cows with calves at foot will not be extra fat, but will have an extra string of good young calves at their side. In fact the entire offering will be commendable both for the sellers and the buyers. In the bull offering there are two extra good Scotch herd headers. There will be free transportation from Hills, Minn., to the farm; also from Lester, Iowa. For catalog address Messrs. McCullough & Johnson, Steen, Minn., and mention The Homestead. Col. George P. Bellows will be the auctioneer, with able assistants. See advertisement on page 42.

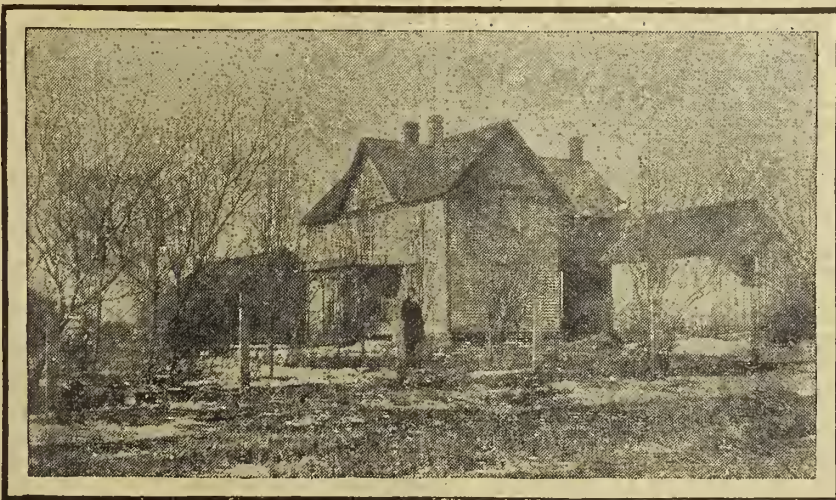
M. A. KRASCHEL BUYS HELEN'S CHIEF.

Mr. M. A. Kraschel, of Macon, Ill., is to be congratulated on the purchase of Helen's Chief to use in his great herd of Duroc Jerseys. Helen's Chief is by Ohio Chief and out of the \$1,200 Helen Blazes III. For the past two or three years the Illinois breeders have been going to Mr. W. R. Turner's (his former owner) sales and buying some gilts sired by him and winning on them at the Illinois State Fair, and when

producing large litters throughout. This sow, however, is only one of the many splendid animals that are to be sacrificed at the sale mentioned. Do not fail to attend.

THE JEFFERIES COMBINATION SALE.

On the 4th of February, Messrs. Jefferies & Sons will make a combination Poland China and Duroc Jersey brood sow sale on their farm near Rock Rapids, Iowa. Forty head have been cataloged for this sale, being equally divided as to numbers between the two breeds. Five are tried sows, fifteen fall yearlings and twenty spring gilts. It will be an extra good offering of Poland Chinas with reference to both size and quality. In the matter of blood lines there is also something well worth looking after. The fall yearlings are sired by Grand Expansion and the gilts by Tecumseh Dude and Midwood Perfection. The latter is a son of the show hog, Winning Perfection. They will be bred to Demonstrator, a hog whose pedigree traces back to the popular Corrector blood. He, too, is a good one, in fact, a representative of The Homestead who recently inspected the herd considers him one of the best young boars he has seen this year. He has size, quality and finish and gives promise of being, when fully matured, a strong 1,000-pound



THE HOME ON THE 240-ACRE FARM NOW BEING OFFERED BY MR. ISAAC A. NOVINGER, KIRKSVILLE, ADAIR COUNTY, MO. SEE PAGE 23.

& Sons, Columbus, Ohio, will be carefully handled. Arrange to attend the sale if possible.

SCHMAL'S DUROCS SELL FEBRUARY 1ST.

Mr. Gen. Schmal, of Sutton, Neb., whose announcement appears on page 45, is selling thirty-three head—twelve tried sows, five fall yearlings and sixteen spring gilts, bred to Red Top by Echo Top and to Kant Be Better by Kant Be Beat, and Red Molly by Billie K. Model. A daughter of Red Reuben and Sutton Lady graces the place of No. 1—and a No. 1 good brood sow. An Improver III. Red Knight bred sow is also a proven sow and put in as an attraction. Miss Fancy by Commodore Lad and out of an Orion-bred sow is one of his attractions, bred for an early litter. Queen Model by Cherry Boy has a daughter of Red Top in a gilt that is strong and one of his tops. Other gilts are by Davis Chief, Echo Top, Red Top, Tom Davis, Farmer Burns and Brooklyn Boy—every one of which has a record as a breeding and show boar. Catalogs may be had by writing now and mentioning The Homestead. Send bids to Mr. Fred Larkin, of this city, in Mr. Schmal's care.

THE GREELEY HORSE IMPORTING COMPANY.

One of the more prominent advertisements in the pages of The Homestead is that of the Greeley Horse Importing Company, of Greeley, Iowa, whose present announcement may be found on page 50. This Greeley Horse Importing Company is under the management of Mr. A. B. Holbert. Mr. Holbert is a veteran in the business as an importer, a pioneer, having probably as many years of experience to his credit as any other man at present engaged in active work. He has been located at Greeley, Iowa, for more than a quarter of a century and during that period of time his importations of draft and coach horses have aggregated nearly, if not quite, 5,000 animals. Beginning in a small way and with a limited capital he has established himself by building up a reputation for fair dealing that was a valuable assistance to him in the later dark days during which practically every other horse importer in the West suspended business or quit entirely. Mr. Holbert stayed. He kept on importing and breeding horses and today the demands of his business make it necessary for him to import 500 head annually. A recently-issued catalog from the Greeley Horse Importing Company is one of the handiest and most complete of the kind which has come to the notice of The Homestead. It contains in the front a portrait of Mr. Holbert, himself, followed by those of his sons, one of whom is constantly in the old country making selections of animals for the home farm. These boys have grown up with the business. They have been educated in Europe and know the languages of the countries in which they do business as do the natives. They have been particularly instructed from childhood in the matters of horse merits and few better judges are engaged in making selections. The book contains portraits and pedigrees of innumerable Percherons, Belgians, Shires, German Coachers, French Coachers and Hackneys, all of which will be of interest to buyers. A particularly attractive feature of this catalog is an authentic and reliable history and description of the German, Hanoverian and Oldenburg Coach horses. This comes from the pen of Mr. A. B. Holbert himself, who is president of the German Coach Horse Association of America. It contains information that is of value to any student of the live stock industry and should have a place in the library of every horse breeder. This catalog is a work of art in every respect and it will be forwarded to every prospective buyer of a horse who reads The Homestead and writes for it to the Greeley Horse Importing Company, Greeley, Iowa.

CROW'S LAST CALL.

Mr. W. J. Crow, whose advertisement of his fourteenth annual sale of Poland China brood sows appears on page 53, will on February 2d drive into the ring a consignment of sixty head that are designed to please buyers, as well as add to Mr. Crow's reputation as a breeder of Poland Chinas. Mr. Crow makes this offering of the surplus stock of his farm and without intention to secure big prices through the offering of mature sows that he might need on his own farm. For this reason the sale is made up of fall and spring gilts in about equal numbers. They are daughters of Up To Date, Big Surprise, Long Dude and Hadley's Expansion. They will have been bred to Up To Date, Big Surprise, Hadley's Expansion and St. Patrick. Mr. Crow is one of the oldest breeders of Poland Chinas in the Northwest, having been in the business for about twenty years. He has, during that time, been an earnest advocate of the large Poland China that was capable of early maturity and yet possessed quality and finish. One of the greatest points that assisted him in obtaining the desired ends was the work of Crow's Model. This was a great big fellow weighing 1,000 pounds with ten-inch bone, plenty of length and stretch and a strong spring of ribs. While he possessed all of these qualities he was, however, somewhat lacking in finish and attractiveness of appearance. As a corrective Mr. Crow secured Up To Date, the present head of the herd, and without doubt in his mind the best large hog in America. No better feet or legs ever went under a hog, and in coat, color, head and ears and others points he is equally as strong. At five months of age he weighed 125 pounds, at twelve months 560 pounds and at twenty-four months 800 pounds, although just in good growing condition. The cross of this hog on the produce of Crow's Model met every expectation. They carry easy-keeping qualities, mature early, have plenty of size and finish and the majority of the offering carry the above strains of blood. Mr. Crow's fall sale of spring boars, of the same breeding as the sows which are now to be sold, were disposed of at an average of \$40 per head. Mr. Crow's spring gilts will go into the sale ring weighing 350 to 400 pounds, while the fall gilts will weigh around 450 to 500 pounds. They have not been overfed. They have been fed a correctly-proportioned growing ration. Those who attend the sale should remember that it is one of the series beginning at Hull, Iowa, February 1st, and Mr. Crow's on the 2d, and

Mr. J. Thuirer's, at Fostoria, on the 3d. For complete information with reference to accommodations or transportation send for catalog which may be had by addressing Mr. W. J. Crow, Webb, Iowa. Mr. E. T. Parker, a representative of The Homestead, will be in attendance at this sale and will be glad to make any purchases that may be entrusted to him.

HOLSTEIN SALE.

In the Gay Stock and Dairy Farm dispersion sale at Madison, Wis., on February 19th, 100 head of Holsteins will be offered for sale. The sale will be held in the university live stock pavilion and upon the day following the close of the farmers' course which will be held at the college of agriculture February 8th to 18th, inclusive. This arrangement will enable farmers and breeders to take in a part or all of the course and without any additional expense or inconvenience attend this important sale. The new pavilion is large, convenient and comfortable. All who come will be comfortably accommodated and will have an ideal opportunity to inspect the offering which will contain only high-class and young stock. (No old cows nor "three-teaters" go into this sale.) Daughters of De Kn 2d's Paul De Kol, Johanna De Pauline 2d's Lad, Princess Sir Ormsby, Aagie Cornucopia Pauline Count, De Kol Admiral Paul 2d and Sir Ormsby Hengerveld De Kol. No other herd contains daughters of so many famed bulls. The cows and heifers have been bred to bulls which would suitably match such well-bred animals and intensify their excellencies in the offspring. Write today for catalog to Mr. Sidney Gay, Madison, Wis. See page 42.

LAST CALL FOR THE TRYON BROOD SOW SALE.

On February 1st, at their farm near Bancroft, Neb., Messrs. John H. Tryon & Son will make their annual Duroc Jersey brood sow sale, and the forty head they are selling are a credit to this noted herd. The Tryon herd is one of the best in the state of Nebraska and no firm have bought better foundation stock. The sows they are selling at this time are just as good as will be found in any sale this winter. There is a daughter of old Proud Advance in this sale bred to Harding's King of Colonels that is just as good as anybody owns. She is a great foundation sow and should go into some good herd. Two of the best daughters of Dreadnaught that we have ever seen go in bred to Perfection Chief, a son of Ohio Chief. Then there are two daughters of the noted prize-winning boar, Farmer Burns, in the sale, and they are bred to Perfection King. There are a number of granddaughters of Ohio Chief in the sale and quite a number of daughters of Tryon's King Orion. Among the latter are some very excellent Duroc Jersey brood sows. The boars in use now in the Tryon & Son herd are Perfection Chief 1st and Perfection Chief 2d, both sons of the great Ohio Chief. They are also using Goldstn Colonel, a son of Harding's King of Colonels, and another boar called Woodland King. The offering is a good one from one end to the other. There is not a better bred herd in the state and Messrs. Tryon deserve a good sale. It is to be hoped that the farmers and the breeders will be out in full force and make this the best sale they have ever had. No firm in the state deserve a better sale. Write for their catalog at once and mention The Homestead. Bids sent to Mr. M. T. White, Homestead representative, in care of the above firm, will be properly attended to on sale day. See advertisement on page 54.

DAVIS & SON'S DUROC SOW SALE.

On Wednesday, February 9th, at their farm joining Fairview, Kan., Messrs. J. B. Davis & Son, of that place, will sell forty head of Duroc sows and gilts (mostly gilts), a large part of which are so good that they should go to good breeding herds where high-class sows that are bred right are wanted. Mr. Davis, the senior member of the firm, has bred the Durocs for many years. He is a quiet, retiring gentleman who has never pushed his hogs as have many. He has for years gone to the best herds in America, selected such hogs as in his opinion would improve his herd, and the result is a herd of extremely high-class Durocs that have not been advertised as they might have been. He has for years drawn heavily on herds that were rich in the blood of Protection, so that the sows of the herd carry much of this blood. Later Mr. Davis used boars rich in the blood of King of Colonels (one a son of this noted sire), Crimson Wonder, Golden Rule and Kant Be Beat. He was particular in getting boars with good feet, good arched backs and good heads and ears, so that his herd is strong in these essential parts. For this sale he and his son have selected forty head, nearly all gilts of last February farrow. These are as large, if not larger, than the majority of fall yearlings, they have been well grown, but are not loaded with fat. Ten or a dozen head of these gilts are by J. B.'s King of Colonels, some are out of Monarch sows and some out of Fairview Chief dams. Monarch was used by Mr. Davis for several years. He was a grandson of Orion 2d, Protection and Duchess 40th. Few sow sires ever proved the equal of this boar and the King of Colonels proved a most perfect niche. It is to be regretted that J. B.'s King of Colonels was lost, as his get show that he was one boar in a thousand. The gilts of this cross are the kind to tie to, as they have about all that is desirable in a good hog. Six daughters of Double Rule, a Golden Rule boar; two by Kansas Challenger, a Duroc Challenger boar; two by Lincoln Top Jr. by Lincoln Top; six by Hero, a son of Corrector's Hero, and a number by Monarch's Choice. Mr. Davis' present leading herd boar, are probably the top things of the sale. Three good boars have been used on the sows Messrs. Davis & Son sell. They are Monarch's Choice 51977, a boar that traces close to Orion 2d, Protection, Duchess 40th, W. L. A.'s Choice Goods and Tom Watson by old Top Notcher; Crimson Rule 91975, a Crimson Wonder-Golden Rule boar; and Pride's Colonel 91979, a King of Colonels, Ohio Chief and Kant Be Beat boar. In next week's issue more will be said of these boars. They are bred right and pigs by them should be good things to own next year. See page

43 for Mr. Davis' advertisement. Send for his catalog and when doing so kindly remember to mention this paper.

OPPORTUNITY AT MASON CITY.

A prominent live-stock auctioneer not infrequently opens his sales with the quotation that "Opportunity is a horse all saddled and bridled that comes but once to every man's door." Opportunity will certainly appear at the public sales of Duroc Jersey hogs to be held at Mason City, Iowa, February 2d and 3d and, like the opportunity of the quotation, once gone may never again be secured. Messrs. Balmat & Son offer a splendid consignment on the 2d and Mr. Geo. H. Purdy a grand collection on the 3d. These Duroc Jerseys are not of the ordinary hit-and-miss sort that go to make up a public sale. Mr. Purdy is disposing of animals that could not be bought for any money were he to remain in the business. The Messrs. Balmat offer but a limited number, preferring rather that they be good ones than numerous. We trust that our readers have already secured catalogs of both these sales. We urge them to be present. Mason City can be easily reached from any place on the map. Make a two days' excursion there on the 2d and 3d and do yourself the favor of buying what has the foundation of a fortune in it.

THE FARMER'S OPPORTUNITIES.

There is an old saw, the exact wording of which does not come to mind just now, but the effect of which is the misfortune of one man work out to the advantage of another. An incident showing the truth of this old adage is illustrated in the case of the Brookmont Farms at Odebolt, Iowa. The proprietor, Mr. A. E. Cook, has disposed of a portion of the great Brookmont ranch on which has been located the greatest herd of registered Hereford cattle in the West. The reduction of acreage brought about by the sale referred to obliges the owner to make a corresponding reduction in the number of cattle to be retained, as the herd has, up to this time, exceeded 1,000 head. The reduction is a most material one and will call for the distribution of a greater number of cattle than would be necessary to make up half a dozen ordinary herds. Mr. Cook has already made two public sales. These, however, have not been effective in bringing about the required reduction in numbers of the herd; for that reason buyers may be accommodated at private sale with any number of animals that they may require. The great herd bull, March On, the old imported hull himself, stands at the head of the Brookmont herd. It is doubtful if, during the past twenty years, any animal of the breed or any other breed, in fact, has brought about so marked an improvement as his Imp. March On. This is so well known that it needs no further explanation from us. What we do want to urge, however, is that buyers, either breeders or farmers, should avail themselves of this great chance to secure good animals of lines of breeding that are not often put upon the market. Mr. Cook's loss in this case will be the gain of the buyer. Read the advertisement on page 43 and make a visit to Brookmont at any time when it is convenient. If you should not buy you will be equally as welcome and you will certainly have a visit that of itself is worth the cost.

PHILLIPS' POLAND CHINA SALE.

Not a little interest is justified among breeders of Poland China hogs in the announcement of Mr. C. W. Phillips, of New Sharon, Iowa, that on February 9th he will hold his annual public sale of brood sows. The advertisement will be found on page 43. The Homestead believes that there are few offerings of the breed this season which will approach so nearly in their entirety the most approved and most popular type of Poland China. In the offering there will be eight aged sows, two fall yearlings and thirty-five spring gilts. An interesting feature of this sale is that a very large proportion of the offering are the get of Mr. Phillips' herd boar, On Exhibition 105171. This is a hog notable for several excellent reasons. He meets the popular demand by weighing when in condition fully 900 pounds. He meets the approval of those who want quality and finish, as well as style, by being beyond criticism on those points. His head is broad, short and right in line with the demands of the most approved show form. His ear is small, nicely tipped, and, in fact, a neater and better ear than is found on any one show hog in a thousand. He has a good, strong back, a straight, strong foot, wide at both ends, with a back that carries its width evenly throughout, and is ribbed out in a manner that has seldom been noticeable since the days of old Black U. S. There are good reasons for the excellence of this hog. He carries a pedigree that is remarkable from every point of view. His sire was a son of G. V. Perfection, noted a few years since as a sweepstakes hog at both the Iowa and Illinois State Fairs, and he a son of Chief Perfection 2d, whose influence as a sire has extended to every portion of the Poland China breeding world. The dam of On Exhibition was by Chief Tecumseh 2d, the second dam by Black Chief 2d and the third dam by old Black U. S. The pedigree of the dam includes such a commingling of the old Tecumseh and Corwin strains as to have been productive of the highest results. It will be noted that this hog is a grandson of old Chief Tecumseh 2d and everybody knows that there are very few hogs bearing the same relationship living. As a breeder he has shown extraordinary prepotency, his pigs carrying his point of excellence to a remarkable degree. A number of his gilts in this sale are as choice in every respect as any buyer need to ask. Those not of his get will have been bred to him. His gilts, however, will be bred to Dnde's Wonder 143731 or P.'s I. X. L. Dnde's Wonder is a hog of excellent conformation. His sire was Marshall Dude, he by Winning Dnde, and he a son of the great prize-winning Nemo L.'s Dude. His dam is a daughter of Hazel Chief, tracing back through Black Chief and Lea's Wonder to the grand old sweepstakes sow, Nemo L. Those who have kept posted in Poland China history will not fail to recognize in this pedigree a strong commingling of the blood with which Mr. Marshall a number of years ago captured the grand champion sweepstakes prize, all breeds competing, at the Iowa State Fair. P.'s I. X. L. is a last March pig by a son of Chief Perfection 2d, dam by Pawnee Chief, he by

Blain's Tecumseh. This fellow will answer all the call for size. We have gone to some length with reference to thesea pedigree because they have bearing on the quality of the stuff offered. We must, therefore, defer reference to the individuals of the sale until a later issue. However, as stated above, they are good enough for anyone and will bear careful looking after. For catalog of this sale write to Mr. C. W. Phillips, New Sharon, Iowa.

OLSON'S DUROC SALE.

Messrs. Olson Bros., of Woodward, Iowa, and O. A. Olson, of Madrid, Iowa, will open the noted Golden Model circuit of Duroc sales at Woodward, Iowa, on Monday, January 31st. Thirty-five head are listed, twenty of them being aged sows and yearlings and fifteen spring gilts. Breeders should remember that this sale offers but one of two opportunities given to secure sows bred to the great sire, Golden Model. Much has been said in these columns during the past season regarding this noted boar and his sons, grandsons, daughters and granddaughters, but it is only necessary to state that these have won more than 100 ribbons at the Iowa, Nebraska, Sioux City, Indiana, Ohio and Kentucky State Fairs of 1909. This is a record not surpassed by any boar of the breed and, as there has been no disposition on the part of Messrs. Olson to breed any but the very best sows to him, the best results should be the result. Other sows in the offering are bred to Advancer No. 1, the good breeding son of Advancer, the many time champion, and to Proud Wonder, a grandson of the Iowa State Fair champion and sire of champions, Crimson Wonder Again. A limited number of sows and gilts have been bred to Golden Model 1 Am, a promising spring boar by Golden Model and out of a dam by Proud Advance. With this great outlay of boars buyers should find in this splendid offering an opportunity to strengthen their herds. Plan to be present at this, one of the important sales of the year. Look up the advertisement on page 55. Bids sent to Mr. Dante M. Pierce, in care of the above firm, will be properly handled.

THE LOONAN-GLENNY PERCHERON SALE.

An important sale of Percheron mares and stallions will be held at Waterloo, Iowa, in heated sale pavilion on Thursday, February 17th, by Messrs. James Loonan and T. F. Glenny. This is a notable sale, the entire offering being largely the production of the gentlemen named above and not a consignment sale in any sense. Forty-five mares are included, several of which are imported, and of this number thirty-six are safe in foal to the noted breeding stallion, Superior 40605. There is no question but that this stallion is one of the greatest sires in America today and his produce have met with appreciation at the hands of breeders and farmers throughout the entire country who have had the opportunity to see them. At the International in 1908, with an entry of thirteen head—nine by Superior—Mr. Loonan won twenty-two premiums, three gold medals and one diploma, and it is doubtful if any such record has ever been made by any breeder in America. Superior from an individual standpoint is a big, powerful fellow, with a strong, masculine appearance, weighs over 2,200 pounds, has great bone that is clean and flinty, the best of feet, and there is no weak point in his make-up. Had this horse been shown at either state fair at International it is fair to state that the prize list would have been considerably changed. Those present sale day will have an opportunity to see this great stallion and his get. The stallion consignment is a strong one, including many extra good horses from two to five years old. They will come into the sale ring in just ordinary condition, with a life of usefulness before them. Messrs. Loonan and Glenny will give liberal guarantee on every animal sold and the extraordinary merit of the offering should appeal to every reader interested in good Percherons and the advancement of the draft horse industry. Write for catalog, mentioning this paper, as per the announcement on page 43 of this issue. Watch for further particulars in succeeding issues.

GLISSMAN'S GREAT HOLSTEIN-FRIESIAN SALE.

On Tuesday and Wednesday, February 8th and 9th, at South Omaha, Neb., Mr. Henry C. Glissman will sell 125 head of Holstein-Friesian cattle and it promises to be one of the greatest opportunities ever offered in the West to buy high-class dairy cattle. In writing us regarding this offering Mr. Glissman says: "There will be fifty cows and heifers in milk or soon fresh; thirty heifers from twelve to twenty-four months old, mostly bred to calve in spring and summer, by such noted bulls as Sunny Jim, Milk and Butter King 2d and noted eastern sires; also twenty heifers under one year old, sired by the best bulls of the breed. There will be twenty-five bulls from two to twenty-four months old, including sons of De Kol 2d's Bntter Boy 3d, King Segis Pontiac, King of the Pontiacs, Sunny Jim and others of equal merit. A number of A. R. O. cows, and daughters of A. R. O. cows, including Ricka, the cow that won the Nebraska Dairyman's Association test for the year just closed, making almost 1,600 pounds of milk and over 600 pounds of butter in the year. Her yearling daughter sired by Sunny Jim is also included. Also several granddaughters of Hengerveld De Kol that are safe in calf to Milk and Butter King 2d, son of the \$1,000 Milk and Butter King. In all the largest and best lot of registered Holstein-Friesians ever sold at auction in the central West. Every animal over six months is tuberculin tested. The cattle that he is selling in this sale represent the most noted blood lines of the breed and descend in unbroken lines to the greatest milk and butter producers known to the Holstein-Friesian breed. Mr. Glissman is possibly the most noted Holstein-Friesian breeder in the West today and there is no better authority than he on a dairy animal. There never was a better demand for Holstein-Friesian cattle than now and Mr. Glissman is in a position to supply the wants of the breeders and the farmers throughout the West. There will be a grand lot of cows in this sale and some excellent young heifers. There will also be twenty-five young bulls in this sale ranging from two to twenty-four months old and these

are bred well enough to go to the head of any of our best herds. Write Mr. Glissman at once for catalog and kindly mention this paper. See advertisement on page 46.

O. S. LARSON'S DUROC JERSEY SOW SALE

On February 10th, at Logan, Iowa, Mr. O. S. Larson will make his annual sale of forty head of Duroc Jersey brood sows and, as usual, he is putting up a good offering. There will be thirty head of gilts in the sale and ten head of yearlings and matured sows. These will be bred to his new boars, King The Colonel, a son of King of Colonels, and Crimson The Wonder, a son of the noted sweepstakes boar, Crimson Wonder Again. These are two of the best boars that Mr. Larson has ever owned and they will be bred to nearly everything in the sale. Among the best gilts that he is selling are two by Orion's Success, first-prize boar at the Iowa State Fair, and these are out of Crimson Lady by Crimson Wonder 2d. They are both bred to King The Colonel. Two others are out of Galva Queen and are bred to the same boar. There is a good gilt in the sale by Huff's Advance bred to the same boar, and there are several gilts in the sale by Fancy King, a boar that he has used in his herd with much success, and he was a boar that bred a great deal of quality. There are also some good gilts in his offering by Savannah Belle's Chief and Belle's Chief I Am. He is selling a good fall yearling by Orion's Success, out of Galva Queen, and she is bred to King The Colonel. A good Buddy K. IV. yearling goes in bred to the same boar. A good Kruger Lad fall sow (a litter sister to the one sold in his last fall sale for \$100) goes in bred to King The Colonel. There is a good Lafollette spring yearling in the sale out of an Ohio Chief sow, bred to King The Colonel. This sow is not an overly large sow, but she is one of the good propositions that he is selling. He is selling a large Ohio Chief-bred sow that he bought of Mr. W. A. Rankin, and she is also bred to the Colonel boar. He is also selling a yearling daughter of the old sweepstakes boar, Commodore, and a number of others that are very good. Mr. Larson is a good feeder and the sows that he is selling in this sale are a credit to his herd. He has been a buyer of the very best for foundation and now he comes before the public again with a splendid offering of Duroc Jersey brood sows. Write for his catalog and be sure to come to the sale. Mr. M. T. White will represent The Homestead on sale day and any bids sent in his care will be properly cared for. See page 44 for advertisement.

AUGUST HAGER'S BROOD SOW SALE.

On February 12th, at the new sale pavilion in Avoca, Iowa, Mr. August Hager will sell forty-five head of high-class Duroc Jersey brood sows, and it will be an offering that should be appreciated by the farmers and breeders throughout the West. For a number of years Mr. Hager has used old Jim Advance, a full brother to Proud Advance, at the head of his herd, and some of the best sows in the offering are sired by him. You might say the blood of old Advance very largely predominates in this herd, and a look at the sows he is selling will clearly show that he has had something good in his herd. Peerless Chief is at the head of this great herd. He is a litter brother to Valley Chief, the best boar and most popular sire Ohio Chief ever sired, and he is exceptionally large and heavily boned, stands right up on his toes, has fine color, good head and ear, and sired the best and smoothest bunch of pigs Mr. T. H. Isaac ever raised. Mr. Harding thought so much of him as a sire of smooth ones that he induced Mr. Isaac to sell him. Afterwards Mr. Harding fitted and showed him at Des Moines and Lincoln and without doubt should have been in the money at both places. Mr. Hager secured this hog at a very long price to head his herd. He is assisted by a Colonel boar called Proud Colonel, he by King of Colonels. This is a fine boar for his age, being of late March farrow, good color, strong back and loin and heavy ham, large, prominent eye and as smooth as can be. He has for a dam Ideal Queen by Commodore, so you can see by the pedigree he is a hot-bred one. Now a word as to the sows. Rose Advance by Proud Advance is a good sow, very smooth, shows good head and ear, heavy ham; in fact, she is a Proud Advance and that tells you the kind of an individual she is. She is safe to Peerless Chief for early farrow. Ideal Queen by The Commodore by old Commodore is safe in pig to Peerless Chief for early litter and in our estimation it will make a great cross. She also is the dam of the Colonel boar Mr. Hager is using on some of his gilts. Avoca Lady 5th, an Orion-bred sow, is bred for early farrow. Nancy Orion II, granddaughter of Proud Advance and Orion, is a good sow with plenty of size and quality. Three of the best gilts in this herd are sired by Kruger's Best, a son of Kruger Lad, dam a Lafollette sow. They are bred to Peerless Chief for early farrow. Six Model Chief II-I Am Advance gilts are bred to Peerless Chief and Proud Colonel; six by Tip's Chief, a grandson of Ohio Chief II, bred to Proud Colonel for early farrow, and these should make a great cross. The principal part of this herd is sired by I Am Crimson Wonder, A. J.'s Choice Goods by H. A.'s Choice Goods. Here are a lot of snaps for

the breeders in this bunch and, with Mr. Hager's good judgment in mating, these sows are certainly fine and should produce some of the good show stuff for next year. Write for catalog early, as this will bear inspection by the most conservative of red hog men. Mr. M. T. White, Homestead representative, will attend the sale and will care for any bids sent him in care of Mr. Hager. See advertisement on page 42.

LAST CALL FOR EDMONDS, SHADE & CO.'S GREAT COL. SALE

On February 3d, at Shadeland Stock Farm, Kingsley, Iowa, Messrs. Edmonds, Shade & Co. will put up another great offering of Duroc Jersey brood sows, and this offering surpasses anything they have heretofore offered, and that is saying a great deal. Fifteen choicely-bred sows in this sale are bred to Carl's Col., the boar now at the head of this herd and the boar that is practically at the head of the Col. family. This boar is one of the most noted Col. boars today living. He is the sire of the noted boar, Prince of Cols., as well as several others of the more noted Col. boars. The old boar is getting well along in years and this may be one of the last chances that breeders would ever get to buy a sow bred to this noted boar. The sows that are bred to him for this sale are the most noted of the breed. There will be daughters of Proud Advance, Ohio Chief, King Solomon, John's Ohio Chief, Achiever,



American Royal, Prince Wonder, Inventor and other noted sires. About twenty choice gilts in the sale are daughters of King of Cols., Prince of Cols., Ed's Col., Fogg's Col. and G.'s Col., making the entire offering one of the greatest Col. offerings that has ever been put through a sale ring in the West. A number of the sows in the sale are bred to Iowa Notcher, one of the best breeding boars in the state of Iowa. A gilt sired by Iowa Notcher in the List Bros. sale two weeks ago brought \$160, and she was considered one of the best things ever sold in northwest Iowa. A sow bred to him will be a money maker in any herd. A number of sows are also bred to the young boar, Defiance, and those breeders who have seen this young boar pronounce him the greatest young boar in the West today. It will pay you to attend this sale if for no other reason than to see this young boar. The offering is in fine condition and they extend a special invitation to every breeder in the West to attend this sale. Catalog is now out and it will be sent upon application to the above firm. Kindly mention The Homestead when writing for it. Our Mr. M. T. White will attend the sale in behalf of The Homestead and will attend to

any bids sent to him in care of the above firm. See advertisement on page 54.

THE GREAT OHIO DUROC SALE CIRCUIT.

WHITEHALL FARM'S GREAT SALE—FEBRUARY 7TH.

It is always a pleasure for us to announce a sale at Whitehall Farm, Yellow Springs, Ohio. Their sale of Duroc Jersey brood sows will occur February 7th, when they will sell sixty head of extra good brood sows, many of them that have been prize winners at the state fairs and at the International Stock Show. The sows are bred to the following boars: Twenty are bred to Kelly's Pilot Wonder, the grand champion boar at the Ohio State Fair, 1907. Twelve are bred to Col. S. by King of Cols., the champion boar at the Kentucky State Fair, 1908, and second in class at the Illinois State Fair, same year. Others are bred to Royal Heir by King of Cols., Gold Bond by Golden Rule, Advancer II, by Advancer and Cherry King of Cherry Chief by High Chief and out of a King of Cols. sow. There will be twenty sows by Kelly's Pilot Wonder, seven by Col. S., three by Prince Wonder and others by Red Wonder, King of Cols., Orion Chief, Kenton Chief, Macon Chief, Mucie Chief, Chief's Col., Golden Rule, Kansas Col. by King of Cols. II. The sow by King of Cols. was the first-prize junior yearling sow at the last Chicago stock show and is bred to Cherry King. She is a valuable sow and should be looked after by anyone looking for a good King of Cols. sow. One by Orion Chief was first in senior yearling class, senior champion and grand champion at the late International Stock Show. She is bred to Cherry King and is one of the most valuable sows to be sold this winter. The sow by Kenton Chief was the second-prize aged sow at the International and is a good sow. Look after her. The sow by Macon Chief was the second-prize under-year sow at the International and was also a prize winner at the 1909 Illinois State Fair. Take the offering as a whole and it is the best ever put up at Whitehall. Mr. J. E. Drake, the efficient manager, has made a special effort to get together a bunch of sows for this sale that would be a credit to Whitehall as a breeding establishment. A representative of The Homestead recently inspected the offering and can say he has succeeded. Make your arrangements to attend this the first day of the Ohio Sale Circuit. Send for catalog. The announcement appears on page 52. If you cannot come, send a bid to our representative, Mr. Carlos C. Palmer, in care of Whitehall Farm.

WATT & FOUST HAVE AN EXTRA OFFERING—FEBRUARY 8TH.

Among the oldest breeders of Duroc Jerseys in Ohio are Messrs. Watt & Foust, of Cedarville and Xenia, Ohio. They will hold their annual brood sow sale at Dayton, Ohio, on Tuesday, February 8th. At this time they will put up the best offering that they have ever had to offer the buying public. They will sell sixty head of sows and gilts, twelve of which are sired by their great herd boar (now dead), Golden Rule. Golden Rule has

probably done more for this herd than any boar they ever used. About fifteen are sired by Good E. Nuff, their prize-winning son of Golden Rule and the sire of the first-prize junior yearling boar at the Ohio State Fair, 1909. About ten head are by High Model, one of the best sons of Model Chief, the boar that has made such a reputation as a sire in the herd of Messrs. C. W. & Wm. Reed, of Rose Hill, Iowa. Four extra good gilts are sired by Our Pal, a son of King Pal. There is one sow by King Pal and some good gilts by W. & F.'s Proud Advance, Carl's Col., Tippy Col. and Good E. Nuff. The first and third-prize junior yearling sows at the Ohio State Fair, 1909, are included. They are sired by High Model. Messrs. Watt & Foust also list the second-prize under-year sow by Good E. Nuff. The sows are bred by Nugget, Choice Rule, High Model, Good E. Nuff, Good E. Nuff Again and Col. Ira de Jack by Tippy's Col. out of a Chief Walters dam. Nugget is sired by Golden Rule and is a full brother to Good E. Nuff. He was first in class and junior champion at Ohio State Fair, 1909, and headed first-prize young herd. Choice Rule was by Golden Rule and was grand champion at the Ohio State Fair, 1908, and headed the first-prize aged herd at the same show. High Model was by Model Chief and out of a Kant Be Beat sow. Good E. Nuff was sired by Golden Rule and was second in the under-year class, 1907; first in senior yearling class, 1908, and second in aged class at the Ohio State Fair, 1909. Good E. Nuff Again was sired by Good E. Nuff and was the first-prize junior yearling boar at the Ohio State Fair, 1909. This is the second day of the Ohio Sale Circuit and make your arrangements to attend. Write for catalog at once. See page 52. If you cannot come, send a bid to Mr. Carlos C. Palmer, Homestead representative, in care of Phillips House, Dayton, Ohio. Remember the date!

IRA JACKSON HAS A GOOD OFFERING—FEBRUARY 9TH.

As usual, Ira Jackson, of Tippecanoe City, Ohio, will have a grand bunch of sows for his coming brood sow sale, February 9th. Mr. Jackson's career as a showman is well known by most breeders of Duroc Jerseys that have paid any attention to the report of the state fairs during the past three years. We will not dig up any ancient history, but will call your attention to his winnings at the Illinois State Fair, 1909. At that show he won first on aged sow, first on senior yearling sow, first and second on under-year sow, first on under-year boar, junior champion sow and junior champion boar, besides many other prizes. This is enough to show you that he has as good as anybody in the land. In his coming sale he has sows sired by Tippy Col., Cherry Chief, King of Cols., Orion Chief, Prince Wonder, Mucie Chief, Kelly's Pilot Wonder, B. & C.'s Col., John's Ohio Chief, Chief Col., Hartford Prince of Cols., Model Top, Red Wonder, Chief Walters, Loeust Lane Chief, Joe Orion, Inventor, Big Chief, Long Orion and King's Pal. The second-prize under-year sow at Springfield sells in the sale. A fall sow sired by Tippy Col. is included that is the best prospect for a senior yearling sow next year that we have seen this season. There are three King of Cols. sows included that should be looked after by our best breeders. Few more will ever be offered at auction, as the old hero is now dead, and those who have sows sired by him will not part with them. The sows are bred to Tippy Col., a full brother to King of Cols. and the sire of Mr. Jackson's undefeated young herd of 1909: Joe Orion by Orion Chief; Big Chief by Ohio Chief; Long Orion, one of the best sons of Orion Chief; Cherry King by Cherry Chief out of a King of Cols. dam, and Col. Orion by Tippy Col., the junior champion boar at the Illinois State Fair, 1909. The best place to buy foundation stock for a good herd is from the herd that has gone out and won its share of ribbons at the big shows. Mr. Jackson has certainly done this and we hope his efforts will be appreciated. This sale is on Wednesday, the third day of the great Ohio Sale Circuit, and don't fail to attend. The announcement appears on page 52. If unable to come, send a bid to Mr. Carlos C. Palmer, Homestead field man, in care of Phillips House, Dayton, Ohio, and same will be handled carefully.

S. E. MORTON'S GREAT SOW SALE—FEBRUARY 10TH.

For several years past Mr. S. E. Morton has held his brood sow sales on Thursday of the Ohio Sale Circuit. This year he will sell at Dayton, Ohio, on Thursday, February 10th. Few are the men who own a pure-bred Duroc Jersey but what look upon Mr. S. E. Morton as the greatest Duroc Jersey breeder the world has ever known. As a constructive breeder he stands without a peer. To write a history of his herd would be but to write a history of the breed. The productions of this herd have never been equaled by any other herd of which we have any knowledge. Mr. Morton will sell about fifty head, six of which will be sows sired by King of Cols. This will be about the last chance to get a sow sired by this great boar. Ten gilts are by Premier Col., the great son of King of Cols. now at the head of Mr. Morton's herd. The balance of the offering are sired by Chief Success, Col. Grant, High Notcher, H. L.'s Chief, King De Col., Cherry Chief, The Chief and Stuart's Col. by King of Cols. There will be fifteen sows bred to Premier Col. and others to S. E.'s Model Top by Model Top, Stuart's Col., H. L.'s Chief, King De Col. and High Model Jr. We would like to call your attention to a few of the great winners that have come directly or nearly so from this noted herd. Chief's Col., grand champion boar at the Illinois State Fair, 1908; Col. S., grand champion boar at the Kentucky State Fair, 1908; Rosemary Duchess, grand champion sow at the Ohio State Fair, 1908; King of Cols. Ideal, grand champion boar at the Ohio State Fair, 1909; Defender, first in class at Iowa and Illinois State Fairs, 1909, and grand champion boar at International Stock Show, 1909; Ohio Chief, one of the most popular boars that was ever west of the Mississippi, and his son, Model Chief, the boar that has done so much good in the herds of Messrs. C. W. & Wm. Reed, of Rose Hill, Iowa, and we might go on and mention many others, but space does not permit us to do so. The above few go to show that this herd has a record unparalleled by any other. For over a third



HESITANT, (73540) 62689.

Imported and owned by E. J. HEISEL, Fremont, Ia.

A PERCHERON BEAUTY.

We are pleased to present above a picture of the Percheron stallion, Hesitant (73540) 62689. This animal is one of the excellent ones imported by Mr. E. J. Heisel, of Fremont, Iowa. Mr. Heisel advises us that he has a lot of good two-year-olds as good as any that can be found elsewhere. He is making reasonable prices on them and will be glad to enter in correspondence with prospective patrons. See Mr. Heisel's advertisement on page 51.

of a century Mr. Morton has been constantly laboring to bring the breed to the high standard where it now stands. Turn out and come to his sale and show your appreciation of his efforts. Send for catalog. See advertisement on page 52. Bids sent to Mr. Carlos C. Palmer, care of Phillips House, Dayton, Ohio, will receive careful attention.

MAHAN BROS.' CHOICE OFFERING—FEBRUARY 11TH.

While new to our readers, yet we want to say that Messrs. Mahan Bros., of Osborn, Ohio, have one of the very best herds in that great state. They are not pretentious in any sense of the word, yet when they take a herd of hogs to the state fairs, which they do every year, they make all the breeders sit up and take notice. At the Ohio, Indiana and Kentucky State Fairs during the past few years they have probably won more ribbons than any other exhibitor. If you will look up the reports of these fairs you will find this to be true. At the Indiana State Fair in 1906 they had grand champion boar, and in 1908 and 1909 at the same show they had grand champion sow. This last year they won grand champion sow at the Ohio, Indiana and Kentucky State Fairs. If space would permit we could go on and give you scores of other first prizes and herd prizes that this firm have won at the Ohio, Indiana and Kentucky State Fairs during the past five years. They are men who never took to fads and fancies, but have kept steadily improving their hogs. The offering that they will put up on February 11th is the best evidence that their methods of breeding, feeding and mating have been successful. They will sell fifty-five head of bred sows, twenty of which are consigned by Mr. H. S. Neff, of Osborn, Ohio. They are sired by Cherry Chief, Grand Success, Chief to Be, Kruger's Corrector, C. D. S. Col., Orion Model, John's Ohio Chief, Model Top, Orion Meddler, Whitehall Wonder by Kelly's Pilot Wonder and others equally as good. The sows are bred to Chief to Be by Grand Chief by Ohio Chief. The Chief Col. by Cherry Chief out of a King of Cols. sow. He is a litter mate to Chief Select, at the head of the herd of Mr. George Purdy, of Mason City, Iowa. Others are bred to Fancy Col. by King of Cols. II., dam Fancy Finish, a grand daughter of Ohio Chief; Kruger Surprise by Kruger Corrector, and Whitehall Wonder by Kelly's Pilot Wonder. Whitehall Wonder is one of the sensational litter shown by Whitehall Farm in 1908 and was fourth in the under six months class at the Ohio State Fair that year. We have looked over this offering and are pleased to recommend it highly to our readers. This is the fifth day of the great Ohio Sale Circuit and you want to make arrangements to attend every sale. Send for catalog. See their advertisement on page 52. If unable to attend send a bid to Mr. Carlos C. Palmer, Homestead field man, in care of Phillips House, Dayton, Ohio, and same will be properly handled.

STEMEN & SON'S OFFERING.

Messrs. E. C. Stemen & Son, of Middlepoint, Ohio, will hold their sale of Duroc Jersey bred sows Saturday, February 12th. This is the last, but not the least important sale of the great Ohio Duroc Jersey Sale Circuit. This firm are rather new to our readers, but we want to say they have a grand good offering for you to buy. They have been showing Durocs for the past seventeen years and have been very successful. This past year they have made a good record in the show ring. Last spring they purchased the entire Studebaker herd, which included the tops of many sales in both the East and West. A number of these sows, together with their produce, go in this sale. Some good gilts by Lincoln Top, the Nebraska champion of 1907, are listed. Some good gilts by Lafollette, Red Wonder, Macon Chief, High King, Prince of Cols., Muncie Chief are listed. Other gilts are by King to Be, Miller's King, Notcher Chief I., Golden Rule, Prince Wonder, Richland Col., C. J.'s Prince of Cols., Prince Model, McNeil's Model and C. & R.'s Col. Among the yearling and aged sows are sows sired by such boars as King of Cols., High Notcher, Ransom Chief, Sensation, Echo Perfection, Ed's Choice, Kelly's Pilot, High Model, Orion Meddler, Orion Chief, Kant's Golden, Red Wonder and Echo Chip. The entire offering is bred to High King, one of the best sons of King Pal, and formerly at the head of the herd of Mr. D. E. Studebaker, of Decatur, Ind.; Richland Col. by C. J.'s Col.; C. & R.'s Col. by Whitehall King; Corrector's Echo; Our Top by Lincoln Top, and Stemen's Wonder by Red Wonder. There will also be a good sow by Red Wonder bred to Glad Col., the boar now at the head of Mr. M. A. Kraschel's herd, at Macon, Ill., and one gilt by Savannah Belle's Chief bred to Crimson Again, a Crimson Wonder-bred boar. It seems we have told you enough to give you an idea of what this firm are selling. They have plenty of size and quality and the best of breeding. Don't miss this, the last sale of the Ohio Circuit. Send for a catalog. The announcement appears on page 52. Bids sent to Mr. Carlos C. Palmer, Homestead field man, in care of Messrs. E. C. Stemen & Son, Middlepoint, Ohio, will be carefully handled.

MEHRING'S O. I. C.'S.

Mr. H. C. Mehring, of Manson, Iowa, breeder of O. I. C. hogs, advises us that he has at the present time something like thirty choice gilts for sale. As a reply to the many letters of inquiry which he receives Mr. Mehring writes as follows: "I have the best blood I can buy. If I buy a hog at a fancy price and he does not prove to be a good individual or a good breeder he is discarded at once. During one season I bought, at fancy prices, three male pigs, from as many breeders. None of them came up to my requirements and all were discarded. Individual merit with the best blood lines obtainable is what I am seeking. I furnish a pedigree with every pig I sell and usually send it when I send notice of shipment; if not then, as soon after shipment as possible. My breeding stock are all recorded in the O. I. C. Record, located at Cleveland, Ohio, (of which I am a member) and the pedigree of every pig I sell is eligible to that record. I have the regular merchandise rate of express and ship over the Illinois Central or C. & N. P. railroads. No breeder can get a lower rate. I guarantee safe arrival, no matter how far they may go. I ship in a way that is safe for any distance. Having several strains not related to each other I

can furnish the buyer with a pair, a trio or a herd not related. I add fresh blood every year so that purchasers can each year get something not related to any which they have previously bought of me." Mr. Mehring's advertisement will be found on page 54 of this paper. Write him for anything you may want in his line.

E. J. BROWN'S DUROC SALE.

Mr. E. J. Brown, of Osceola, Neb., will sell on February 11th one of the strongest offerings of Duroc Jerseys to enter an auction ring in Nebraska. Forty-five head—daughters of Red Knight, the champion of 1905; Red Duster, Gold Dust Knight, Medoc, Gold Dust Chief, Belle's Echo and Proud Ceres go to make up the offering of thirty-three gilts and twelve tried and yearling sows. They are bred for March, April and May farrow and are bred to Medoc Jr., the champion of Nebraska in 1909; Red Knight; Mascot, a youngster which attracted much attention at the last sale; Long Crimson I. and Crimson Wonder 4th, sons of Crimson Wonder 3d; Proud Ceres, and Belle's Echo. Knight's Queen by Red Knight out of Echo's Best, the second-prize gilt of 1904, by Echo King, is an attraction—a large, even, smooth, broody sow. Dutch Girl by Red Duster is a great sow, deep, massive and heavy boned, bred to Proud Ceres. In line, a line-bred Red Knight, one of the best sows on the farm, is a money maker. A splendid proposition is offered in Village Lass by Gold Dust Chief by Ohio Chief, out of Village Pride, and bred to the 1909 champion, Medoc Jr. 86943—a good, stretchy broody, tried yearling, splendid color and very smooth. An attraction is a Red Duster yearling, a line-bred Red Knight. Her brother, a winner at Lincoln, is an attraction. The gilt offering is strong. Full particulars and details may be had in catalog, now ready, and may be had upon application. Bids should be sent to Mr. Fred S. Larkin in Mr. Brown's care. Please mention The Homestead when writing. See page 42.

THOMAS GOSSARD'S GREAT PROUD CHIEF OFFERING.

One of the best offerings of Duroc Jersey bred sows that has ever been put through a sale ring in northeast Nebraska will be offered at public sale by Mr. Thomas Gossard, at Ponca, Neb., on February 2d, when he will sell forty head. Mr. Gossard is one of the owners of the great boar, Proud Chief, and most of the gilts in the sale will be sired by him. Those who have seen Proud Chief gilts before will know what to expect in these, as Proud Chief is rapidly building up a reputation as one of the greatest sow sires in the West today. This boar is a son of Ohio Chief, and he was bred by Mr. R. J. Harding, who showed him at Des Moines, winning second prize on him in one of the strongest classes of that year. We have not seen many offerings more uniform in character than the gilts that Mr. Gossard is selling in this sale. He will also sell two daughters of the great Proud Advance and five daughters of Ohio Chief II. in this sale. Others will be daughters of Missouri Gold Finch, Reed's Banker, Perfect Wonder and Fashion Plate. The Proud Advance and the Ohio Chief II. sows are excellent brood sows and many of the best gilts that he will sell at this time are out of these sows. All of the older sows in the sale are bred to Proud Chief and this will be a splendid place to get a sow bred to this noted sire. The gilts will be bred to Proud Monarch, a litter brother to the great Proud Lady. The Gossard offering is strictly high class from beginning to end. Send for catalog at once and kindly mention The Homestead. Bids sent to Mr. M. T. White, Homestead representative, in care of Mr. Gossard, will be attended to on sale day. See page 45 for advertisement.

EAKLE'S DUROC SALE.

On Tuesday, February 8, 1910, Mr. S. E. Eakle will sell forty-five head of top bred sows in a warm sale pavilion in Prophetstown, Ill. Mr. Eakle is to be congratulated on producing such a fine lot of sows and gilts, as he bred most of them. He is a good buyer and knows what he wants and the price doesn't stop him if he sees the individual that is backed by the right blood lines. He has not only bought good herd boars and choice sows to place in his breeding pens, but he has bought choice sows and gilts for this sale as attractions. We will first take in the herd boars. S. E.'s Model by Model Chief, dam by Advance, is a full brother in blood to Model Chief II., the champion boar at the Iowa State Fair, 1908. His produce is showing up fine and about twenty-five choice gilts will be sold by him and several bred to him. Another good boar in service is Golden Model VI. by Golden Model II., the Walmeyer champion boar and sire of champions. Golden Model VI. is out of a Model Chief dam and he headed the first-prize aged herd bred by exhibitor at the Sioux City Interstate Fair, 1909. You can't go wrong on buying a sow bred to this great young boar. There is no branch of the Colonel family that is more popular than the Golden Model. Last, but not least, is Colonel Browning by Chief's Colonel, champion Illinois State Fair, 1908, he by King of Colonels, dam Chief's Burketta by Ohio Chief. The dam of Colonel Browning is Proud Fairy by Proud Advance, dam Lucy Wonder XXI., second dam Lucy Wonder, grand champion sow at the Chicago World's Fair. Colonel Browning has lots of size and finish and if you want a big, stout bunch of pigs buy a good sow bred to him. Among the good things in the sale are three gilts by Model Chief, dams by Advance. These gilts are extra good stuff and safe ones to buy. A gilt by Gold Cloud, dam Helen Blazes II., is a fancy thing and bids fair to be a money maker. She is bred to Golden Wonder VI. A good one is by Model Wonder, bred to Golden Model. Three very choice gilts are by Model Again by Golden Model. Three well-bred things are by Colonel King by King of Colonels, dam by McNeil's Model. An extra good brood sow is Goldie by Sunny-side Pat. She is an extra good brood sow. Lola by Keep On III., dam by Proud Advance, is a sow worth looking after. She is a careful mother and produces the right kind. The twenty-five choice gilts by S. E.'s Model are an even typed lot and all O. K. If you haven't a catalog, you better get one, for it will be to your interest to

look this sale up and then attend. Look up the advertisement on page 41 of this issue. Bids sent to Mr. Dante M. Pierce will be properly handled.

FRANCISCO'S BIG POLAND SALE.

The big Poland China sale of Mr. H. B. Francisco, of Hastings, Neb., on February 10th, will contain forty head, the strongest offering to be sold in Nebraska this sale season. Great Hadley by Big Hadley, out of the great sow, Midnight by Big Tecumseh, is the principal sire represented. He is a Nebraska prize winner and one of the outstanding boars of the day. Many are bred to King Mastiff, a son of Meese's Mastiff, that landed a blue ribbon at Lincoln last fall in a hard show. The offering of forty head will consist of four tried sows, one fall yearling and thirty-five gilts. Gem's Tecumseh, a wonderful sow by Tig Tecumseh, is good enough to go to any herd. Naomi's Model by Mogul's Model, reserve champion at Nebraskas, 1908, out of Naomi's Pansion by Expansion, sells, together with six half-sisters, the next to the top litter of the sale. Miss Made Right, the dam of Belle Nettle, also sells. The star attraction of the year is eight gilts by Great Hadley, out of Blue Bell by Expander, and they are good enough to go to any herd in America where size, bone, quality and breed character is demanded. A great litter and all good. Naomi's Pansion is the dam of the next choice bunch. She is a line-bred Expansion sow and the litter is by Great Hadley. To make it brief, they are good enough for the most critical, and as a tip, either be present or represented if you want a top gilt of the year. Bids may be sent to Mr. Fred S. Larkin, in Mr. Francisco's care. Catalog is now ready. See the announcement on page 42.

WHEELER CLOSES OUT HIS TABLE-BACKED HEREFORDS.

On Thursday, February 10th, Mr. W. W. Wheeler, Harlan, Iowa, will close out his entire herd of "table-backed" Herefords, and it promises to be one of the greatest opportunities of the year to buy high-class cattle. Mr. Wheeler has sold his farm and therefore is compelled to dispose of his herds, and this is the reason he is closing them out. All of his imported cows will be included, together with other noted matrons that have graced this herd, and many of these were purchased at very long prices. Included in this sale will be cows that cost Mr. Wheeler all the way from \$700 to \$1,000, are royally bred and many of these have calves at foot by Beau Donald 37th and are rebred to Beau Donald 72d. There will be ten head of Beau Donald bulls in this sale and their equal will not be offered in a sale this year. When Mr. Wheeler started this herd money was not a consideration when it came to getting what he wanted. He has always spoken of his herd as the "table-backed" herd because of the great width of back that made up so many of the cows in this herd. It has always been said that no herd in the state could show up so many good cows, richly bred and good individually, than could be seen in the Wheeler herd. Many of these cows came from the more noted herds in this country and Mr. Wheeler visited all the leading Hereford herds in Europe in search of matrons for his herd. At the time of his importation it was said that a better lot of Herefords had never crossed the Atlantic, and many of these and their daughters will be included in this offering. It would be useless for us at this time to again enumerate the various good things that he will sell at this time. His catalog tells the whole story and if you are interested in Hereford cattle send for it at once and mention The Homestead. See the advertisement on page 45.

BUTTERFIELD'S DUROC SALE.

Mr. F. B. Butterfield, of Ankeny, Iowa, sells forty head of choice Duroc bred sows and gilts on February 2, 1910, consisting of ten head of matured sows and thirty gilts of early winter and spring farrow. He has at the head of his herd Golden Colonel by Chief's Colonel, the hog that heads Mr. L. E. Thomas' herd of Golden, Ill., he by King of Colonels. The dam of this great pig is Switzer Cose by Fashion Boy. He is a very smooth hog, with heaps of quality, a very strong arched back, broad loin and well-sprung rib and stands on the very tips of his toes. There are quite a number of these sows bred to him for early farrow. He was the top pig out of Mr. L. E. Thomas's herd that was shown at Des Moines this year, and was one of the outstanding boars sold there to Mr. Butterfield at a long price. He is assisted by Notcher Jr. by Iowa Notcher, the first-prize hog in senior yearling class, 1906. He has been shown and won several times since and won good places each time. He stood at the head of the well-known herd of Messrs. Easton Bros. He has one more good boar, Rosy Advance by Advance, a half-brother to Proud Advance. This hog has extra heavy bone, is smooth as an apple, of good color and has large eyes that don't close with fat and a fine head and ear. Come and see his get in this great bunch of royally-bred ones on February 2d. Probably one of the best things of this offering is a sow raised by the great breeding hog, Tientsin. She is a fine individual and is as good a Tientsin as you ever saw. One sow is sired by Keep On II. Both of these are bred to Notcher Jr. One sow is sired by Model Chief. Here is a great brood sow, fine disposition and bred as well as any in the state. One is by Ohio Crimson by Ohio Chief, dam Model Chief and bred to Golden Colonel for early farrow. Here is one bred in the purple, Ohio Chief, Crimson Wonder, Model Chief and her get will have these three strains combined with the Colonel blood and you could write pedigrees all day and not write a richer one than this litter carries. One by Perfect Colonel is bred to Golden Colonel, making a line-bred litter. One is sired by Model Chief 8th, dam Crimson Wonder Again, the sweepstakes hog at Iowa and sire of sweepstakes hogs. Here is a fine individual, very strong arched back, well-sprung rib and heavy ham and stands up nicely on her feet. One is by Advance Chief by Advance. The gilts are sired by such noted boars as Nebraska Belle's Ohio Chief, Ohio Crimson, and Ankeny Chief, a grandson of Buddy K. IV. Some are by Kruger Lad, some by Sells' Crimson Wonder, Tient-

sin and Notcher Jr. This is all a very growthy, smooth bunch of gilts and they are full of quality. They are all bred for early farrow and should make the buyer plenty of money, as Mr. Butterfield has spared neither time nor money on this great bunch of sows. Look up the advertisement on page 55 of this issue. Bids sent to Mr. Dante M. Pierce will be properly handled.

HALFORD'S POLAND CHINA BROOD SOW SALE.

On February 11th, at Manning, Iowa, Mr. R. W. Halford will make his annual Poland China brood sow sale, at which time he will sell forty head of choice sows. Included in this sale will be thirty head of spring gilts and they have as much size and quality as anything we have seen in our travels this year. The most of these are sired by Long Chief, the boar that has done so much to bring this herd into public notice. The remainder are sired by Chief Price 2d and Osborn's Chief. There are three fall sows in the sale and seven head of matured sows. One of his best brood sows is Elmore, a daughter of his old herd boar, Monarch Jr., and she is bred to Long Chief. She is the mother of a fall yearling that he sold last fall at the state fair for \$75. Lady Superior is a grand good sow and she is a granddaughter of Monarch Jr. She is bred to H. A. Expansion and he expects good results from this mating. She has been one of the best money makers he has had in the herd. Two of the largest gilts in the sale are out of Beauty B. and the old sow herself will be sold bred to Long Chief. The gilts are very uniform throughout and Mr. Halford says they will weigh 400 pounds by sale day. We had the pleasure of looking this offering over recently and we can say to Homestead readers that they will be well pleased with the sows that he is selling in this sale. Write for his catalog at once and kindly mention The Homestead. Any bids sent to Mr. M. T. White, Homestead representative, in care of Mr. Halford, will be properly cared for on sale day. See page 44 for advertisement.

LAST CALL FOR FARVER BROS.' POLAND CHINA SALE.

Messrs. Farver Bros., of Osceola, Iowa, will hold their annual sale of the big type of Poland China hogs at their farm, one mile east of Osceola, on February 3d, at which time they will sell forty head of Poland China brood sows. There will be twenty tried sows, five fall gilts and fifteen spring gilts. They are the daughters of Up To Date Kind and Model Tecumseh, he by Crow's Model; King Dodo; Pawnee Prize, he by Pawnee Chief, and are bred to Up To Date Kind, Onr Dodo and Pawnee Prize. There will probably be more of tried brood sows in this sale of the large and prolific kind than there will be in any sale held in northwestern Iowa this year, and we would advise anyone wishing to buy well-bred, matured, tried sows, of the large and prolific strain of Poland China hogs, to attend this sale where they will be able to find some very choice ones to select from. Messrs. Farver Bros. have been in the pure-bred hog business for some years and have built up one of the good Poland China herds in their part of the country. The fact that they are thoroughly reliable is a further assurance that anyone buying hogs of them will secure fair and honorable treatment in every respect. As the offering and breeding is good, we have no hesitancy in recommending it to the public. Parties attending the W. J. Crow sale, on the day previous, can take the Rock Island train at Maclay, go to Sibley, where they will find free entertainment, at Messrs. Farver Bros.' expense, at the Osceola House. Next morning take the train at Sibley and go to Osceola, arriving there about 10 o'clock, where they will find free transportation and free entertainment at the farm. Sale will be held in a tent, with J. A. Benson on the block. For catalog address Messrs. Farver Bros., Osceola, Iowa, and mention The Homestead. See advertisement on page 45.

THE FITCH POLAND CHINA SALE.

On page 53 of this issue Mr. J. H. Fitch, of Lake City, Iowa, presents the announcement that on February 3d he will make his annual public sale of Poland China brood sows. This sale is one of unusual interest to those who are looking for size, as well as quality, because it contains in a very large percentage the blood of that grand old hog, Chief Tecumseh 3d. It may be said that this hog was the forerunner of the big Poland Chinas of today, and that he possessed more strength and individual excellence coupled with quality and finish than any of them. The latter points are factors which no true breeder can overlook if he expects to retain the confidence of his patrons. Quite a proportion of the sows that go into this sale are daughters of Chief Tecumseh 4th and he was by old Chief Tecumseh 3d. One, at least, is by Brownwood Perfection, a son of Chief Perfection 2d and although it is frequently expressed that the Perfection blood lacked in the essential point of size this statement could not apply to Brownwood Perfection, as he was without doubt one of the biggest sons of that great old sire that ever came to the West. Brownwood Perfection was not only a great producer of size, but his get were also prominent winners in good show rings. A great feature of this sale in the estimation of the writer is the fact that the excellence is uniform throughout and that these results are obtained through the use of blood lines of the right sort. One of the best things in the lot is the sow, Daisy Perfection, she a daughter of Winning Perfection. Winning Perfection was a winner at the Iowa State Fair in one of the strongest classes. He was a son of T. R.'s Perfection that was champion at the Iowa State Fair and as a breeder had the reputation of carrying more early feeding quality and early-maturing propensities than any hog that has ever come under the personal observation of the writer. These merits show themselves in Daisy Perfection. They are carried still farther, however, by her daughters and granddaughters and an even dozen of them are cataloged for this sale. Of the granddaughters there are two April gilts that would stand at the very front in anybody's herd. They have plenty of size, excellent proportions and an evenness of makeup that make them look good to any admirer of a good hog. There are several sows

in this sale that ought to please those who are looking for show-yard prospects. They are fully described in the catalogs which may be had by writing to Mr. John Fitch, Lake City, Iowa.

O'LEARY'S HEREFORD SALE—LAST CALL.

An attractive lot of Herefords have been included in the public sale to be held at West Liberty, Iowa, on Monday, January 31st, by Mr. D. S. O'Leary. This offering represents the very best breeding that the breed knows and individually they will meet with the approval of breeders and farmers who are interested in good, useful cattle. Fifty head are listed. Thirty-five cows and heifers and fifteen bulls make up the offering. There are seventeen calves at foot, or in other words, every female of breeding age is in calf, has calf at foot and in many cases is rebred, making it an unusually desirable lot. The advertisement on page 46 of this issue gives an idea of the breeding represented in the catalog. The bull offering is an equally desirable one, three two-year-olds and twelve yearlings making up the consignment. Mr. O'Leary is not expecting high prices, but is justified in his belief that the offering will prove valuable investments to purchasers just as they have in his hands. West Liberty is centrally located and the sale will be held in a heated pavilion, so that no postponement will be necessary on account of the weather. Look up the announcement and plan to be present on Monday of next week.

WHEELER CLOSES OUT HIS MASTODON POLANDS ON FEBRUARY 24TH.

One of the great events in big-type Poland Chinas will be the closing-out sale of Mr. W. W. Wheeler, at Harlan, Iowa, on February 24th, when he will dispose of his entire herd of Mastodons. Included in this sale will be all of his celebrated brood sows, many of which were bought at long prices and heretofore never thought of selling. Mr. Wheeler has disposed of his farm and therefore is compelled to part with this great herd. The Wheeler Mastodon Poland has been known to be the largest in western Iowa and his recent sale was one of the sensations of the year. He is selling all of his noted brood sows in this sale, including A Wonder, the largest Poland China boar in the state and a boar that has made good as a breeder. He is the sire of the great boar, Big Bone, that topped the Mouw sale, as well as many other boars that are now heading good herds throughout the West. Columbia Chief 2d is also one of the great brood sows of the breed. As a sire of both size and quality he has not an equal in the West. King Mastodon and Mastodon Chief will also be included and here are four boars that breeders should go after on sale day. The foundation sows in the Wheeler herd were purchased at a long figure and Mr. Wheeler visited all of the great herds throughout the West at the time he started this herd. The price was not a consideration when he saw what he wanted and now all of these sows and their get will be sold at this time. Size with bone has been one of the essentials in the Wheeler herd and he certainly has it. If our readers are wanting the big-type Poland Chinas, they never had a better opportunity in their life to get it than in this dispersion of Mr. W. W. Wheeler's, at Harlan, Iowa, on February 24th. Send at once and get his illustrated catalog and kindly mention The Homestead. See page 41.

H. L. CANTINE'S GREAT BROOD SOW SALE.

The tenth annual public sale of Duroc Jersey brood sows to be held at the noted Cherokee Stock Farm, Quimby, Iowa, by Mr. H. L. Cantine, will take place on February 4th, when fifty head of high-class sows will be offered at public sale. These sows will be bred to the noted boars, Count Tolstoy, Crimson Wonder Jr., Alpine King and Crimson Chief Again. Count Tolstoy is a son of old Tolstoy, the sire of Crimson Wonder. Crimson Wonder Jr. is a full brother to Crimson Wonder and the best brother of that noted sire now living. Alpine King is a son of King Solomon and Crimson Chief Again is a son of Nebraska Belle Ohio Chief. These are all good boars and their breeding is par excellence. The sows that go into this sale will all be bred to the above hogs. These boars will also be the sire of many of the sows that will be sold in the sale. Besides these, there will be daughters of Tip Top Notcher (the World's Fair sweepstakes boar), Top Notcher Chief, Pericles, Advance Dandelion, Clearmont's Marshall, W. King, Harlan Lad, I Am Advance, King Solomon, Ohio Chief, Proud Advance, Fogg's Colonel, Crimson Critic, Sunshine Critic, Keep On and other noted boars. Nobody will put up a better offering of sows this winter than Mr. H. L. Cantine, and it will be a good place to get brood sows. Among the good things will be Nan Orion II., a daughter of Proud Advance, out of the celebrated brood sow, Nan Orion by Orion Dandelion. There will be a good sow in the sale called Mary Colonel by Fogg's Colonel and out of a daughter of Owen, a boar that was formerly used in the Roberts herd. This is a good sow and she is bred to Crimson Chief Again for a reasonably early litter. Chief's Pride is one of the richly-bred sows in the sale. She is a daughter of Ohio Chief and out of Clearmont Belle by Belle's Perfect King. She is also bred to Crimson Chief Again. Even thus is a three-year-old daughter of the old prize-winning boar, Crimson Critic, and she is bred to Alpine King. Lucy's Ruby is a daughter of Keep On, out of a daughter of old Advance, and she is bred to Count Tolstoy for an early March litter. These are but a few of the good matured sows they are offering. There are others that are well bred and good individuals and the breeders will like them when they see them. The gilts are sired mostly by Count Tolstoy and Crimson Wonder Jr. and are strictly choice. The Cherokee boar is one of the oldest and most noted herds in the state. Many of the more noted sires were bred on this farm and they still keep some of the best Durocs on the place. No breeder deserves a better sale than Mr. Cantine, and we hope the boys will be out in full force. Write for his catalog and be sure to go to his sale.

Mr. M. T. White will represent The Homestead at this sale and will care for any bids sent in his care. See advertisement on page 45.

SAM STEWART & SON'S GREAT OFFERING.

One of the greatest offerings of Duroc Jersey brood sows that will be sold west of the Missouri river this winter will be that of Messrs. Sam Stewart & Son, at Keunard, Neb., on February 9th. They are selling ten yearling and matured sows in this sale and thirty head of spring gilts, and it is an offering that is rarely seen in a sale ring. The Stewart herd has been one of the greatest winning herds at the Nebraska State Fair the past two years and they are selling many of the leading winners in this sale. Among the best of these is Kirk's Choice, the first-prize aged sow at the Nebraska State Fair in 1909. She is a daughter of Silky Sensation, a full brother to Chief Sensation, and her dam is the great sow, Lulu, winner of three ribbons at Lincoln and the dam of four first-prize winners and reserve champions in two years. She is bred to Chief Advance, one of his well-known herd boars, and three of her daughters, all first-prize winners will also be sold in this sale. These would ordinarily be attractions enough for one sale, but they are selling other choice sows. Alberta and Elberta, both first-prize sows, will be sold in this sale, one bred to I Am Perfection Wonder, first-prize boar at the Nebraska State Fair, and the other to Strong Chief, a son of Ohio Chief. Kirk's Choice 2d, second-prize junior yearling sow at Lincoln in 1908, is another good sow and she is bred to a boar he is keeping to show next year. Queen of All, a daughter of Redwood Chief, is a most excellent sow and she is bred to their old herd boar, Chief Sensation. These are two good gilts out of Cedar Queen, the dam of all of their winning boars the past two years. One of these is bred to Chief Sensation, the other to I Am Perfection Wonder. There are two excellent gilts in the sale out of Kirk's Choice and they are sired by Ruby Chief. There are three splendid gilts sired by Kruger Chief and out of Cloverdale 3d, a sister to their noted old brood sow, Lulu, and these are bred to I Am Perfection Wonder for an early litter. There are a lot of other good sows in this sale that must be seen to be appreciated. It is certainly one of the greatest offerings of prize-winning sows that will be sold this year. Write for The Stewart catalog and kindly mention The Homestead. See page 42.

COOPER'S GREAT BROOD SOW SALE.

Mr. W. H. Cooper, of Hedrick, Iowa, will hold his brood sow sale February 10, 1910, and he will sell one of the most choicely selected drafts of big-type Poland Chinas with the type bred into them that has been offered in years. He has been a persistent bidder and buyer both at public sales and privately for the best individual quality combined with breeding, and thus has brought together one of the greatest herds of big Poland Chinas in the corn belt. To add to the attraction of the sale he consigns twenty of the big, noted, tried sows, many of which have been sale tops; forty big, growthy gilts, the progeny of these great sows, and many sired by the noted and largest Poland China boars in the world. Anyone desiring the best this line of breeding affords should not miss the great show and sale of high-class, big-type Poland China sows. There are so many of these that it will be difficult to make your choice. Included in the offering will be Wonder Girl 3d, the massive sow bred by Mr. Peter Mouw, and was top in Mr. J. G. Gallman's 1908 sale, selling for \$430 cash. She is one of the largest and smoothest sows ever bred by Mr. Peter Mouw and will be bred to Chief Price, the big 800-pound, sixteen-months-old boar. Another great sow is Lady I. X. L., she was the champion at Mr. A. R. Fox's sale two years ago. She was sired by one of the biggest-boned, best-quality Chief Tecumseh 3d boars living, and out of the noted 850-pound sow, Morning Glory 2d. Faultless Expansion is another sow that has made good in the farrowing pens and one of the big ones, a sister in blood to the Nebraska State Fair junior sweepstakes boar, with the very best of breeding, running into the best blood of Mr. John Blain's herd. She could not fail to be what she is—big and smooth. She is bred to Big Ex, the 1,070-pound son of old Pawnee Chief. Molly Price is also a sow of wonderful scale and blood lines and is a grand individual, sired by Long Price, her dam weighing over 900 pounds and the largest Chief Price sow living. Victor Giantess, one of the largest Giantess sows now living, is also one that will make you sit up and take notice. She is just as good as she is large. If you are looking for the Giantess blood, here is your chance; you cannot beat her any way you name it. Daisy Price is sired by the great Chief Price 2d. Pawnee Wonder 2d is also one of the big ones. Chief's Standard, Choice Perf. 2d by old Osborn Perf., Big Lady by Jumbo, Big Sol 5th, Chief's Wonder and Lady Wonder are great representatives of the Wonder family, and other grand, big sows which the catalog will explain about and will interest anyone who is looking for the big type, with smoothness and quality. The gilts are simply superb in every respect. They have the goods and are good ones. Twenty of them are sired by the mammoth son of old Pawnee Chief and out of big sows, and will be bred to Superior Look, the great yearling boar that sired the highest-priced bunch of spring pigs sold in a sale this fall sired by one boar. Other big, massive spring gilts are sired by Superior Look, bred to Big Ex, Chief Price and others. Also gilts sired by Columbia's Chief and Chief I. X. L., a full brother to Columbia's Chief and one of the largest boars ever sired by Chief Tecumseh 3d. There will be some Jumbo gilts that will be big enough and fancy enough to please anybody, coming from litters of twelve or more by the famous and unequalled Osborn a Perf., the 1,250-pound boar owned by Mr. A. R. Fox. Some by old Jumbo, the one of the largest boars in the world. The entire offering will be safely in pig to the trio of boars at the head of this great herd, which are Big Ex, the 1,070-pound boar at thirty months old; Superior Look, a yearling of the great breeding qualities, and Chief's Price, a monster at sixteen months old. The offering throughout is strictly first class in every

respect and are fed a balanced ration of alfalfa meal, ground oats and wheat with but little corn. Mr. Cooper is feeding this bunch of sows to give their purchasers the best possible results. Send for the catalog. It will be well worth your while, and arrange to attend whether you wish to buy or not. See advertisement on page 43 of this issue.

PERCHERON HORSE SALE.

Homestead readers should keep in mind the sale of Percheron stallions and mares which will be held at Union, Iowa, on Thursday, February 3d, under the management of the capable auctioneer, Col. A. P. Mason. Twenty head have been selected for this sale and with the exception of one, an imported Shire stallion, the offering is made up of Percherons. This is an opportunity which farmers and breeders should not overlook if interested in the improvement of draft horses. Plan to be present on Thursday, February 3d. Mention The Homestead when writing for catalog.

THE BURGE CATTLE TALKS.

Mr. George H. Burge, of Mt. Vernon, Iowa, makes a public sale of Short-horn cattle Thursday, February 17th. Mr. Burge is a wide-awake young man whose business instincts lead him to adopt tactics materially different from those of other breeders in his sale announcements. His talk No. 2, with reference to this sale, will be found on page 48. It gives a few facts without flourish or frill. That is Mr. Burge's way of doing things. As a matter of general interest, we insist that Mr. Burge has left unsaid a great many things that buyers really ought to know. It remains, therefore, for The Homestead to add some particulars which it considers of vital importance with reference to this sale. One of these refers to the great herd bull, Money Musk. This bull belongs to the Missie family and his blood lines trace through three of the best herds of America directly to those of Cruickshank, Marr and Campbell in Scotland. We will not go into detail as to the sires and dams, because it would be too great an undertaking. Money Musk is a show bull. In the first place, he has an unequalled record of having been shown every year since a calf and every year he has come home with ribbons to his credit. He began by taking third at the Iowa State Fair as a calf. The next year at the same show as a yearling he took second, following with second place at the Minnesota State Fair and third at Chicago. At Des Moines again as a two-year-old he won second place and at the great St. Louis World's Fair was accorded sixth, although shown out of condition. Coming again to the Iowa State Fair as a three-year-old he took away the second ribbon and headed the third-prize herd. The next year as a four-year-old he again cinched the second place. Better than this, however, is the fact that as a breeder he has shown equally as much merit and his produce have been winners wherever shown. Both bulls and heifers of his get have been cataloged for this sale. Quite a large proportion of the other females have been bred to him. We know of no other instance this year where cattle of the same quality carry as good blood lines and in addition have the show-yard prestige of Money Musk to their credit. The cattle he sold belong to such families as Golden Galaxy, Nerissa, Victoria 73d, Nonpareil, Mysie, Rosemary, Raspberry and the like. Catalogs of this sale may be had by addressing request to Mr. George H. Burge, Mt. Vernon, Iowa.

OGLE'S BERKSHIRE SALE.

A sale of Berkshire sows is advertised on page 41 of this issue by Mr. J. W. Ogle, of Ames, Iowa, to be held on Friday, February 11th. Regarding the offering Mr. Ogle says in his announcement: "I take pleasure and some little pride in presenting this catalog of my first public sale of Berkshires. I do not claim that I am offering all of the choicest animals in my herd, but I am making a very liberal division of the really choice ones. There will be several special attractions in this sale such as Premier Queen's Lady, a daughter of Masterpiece 77000, and Rosedale Knihel 2d, one of the most typical Berkshires show sows of the breed—a litter mate to the champion barrow at the Chicago International. I feel that I am selling in this sale the best lot of sows that have ever been sold in the state in one sale, either sired by or bred to Premier Belle's Duke 102620, the greatest breeding boar ever owned in the state, of any breed, Premier Longfellow 68600, the grand champion boar at the St. Louis Exposition, 1904, champion of the world. Premier Belle's Duke in his yearling form was shown at the Iowa State Fair in 1908 under Mr. Gentry as judge, and won first in class and champion of the breed. In his first crop of pigs, in fact the first litter he sired, he sired the barrow that won first in over a year class and was made champion of the breed at Chicago, 1909. He also sired the champion boar of 1909 in the same crop of pigs. And I am consigning many sows to this sale that are strong candidates for show-ring honors in 1910. I feel that I am placing myself greatly at the mercy of the Berkshire breeder, as this offering is far above the average, and is strictly high class—not a cull in the sale. And I feel that the farmers' trade alone would not sustain me in making such a consignment, but I feel that the breeders will all turn out and be liberal bidders on this good stuff, as there will be daughters of Lord Premier 5001, Lord Premier 2d, Lord Premier Longfellow 68600, Masterpiece 77000, granddaughters of Lord Premier's Rival 92805 and daughters of Cock Robin 11th, all bred to Premier Belle's Duke, without a question the greatest boar living today, without a rival. And daughters of Premier Belle's Duke, bred to Baron Duke 154th, of identically the same type; and a Premier Longfellow Duchess, bred by Mr. Gentry, who says there is no better one living or dead. I will show my faith by my works. I purchased a son of the world's champion, Premier Longfellow, out of a daughter of Artful Belle 30th, the greatest sow of the breed. He has made good. Then to follow him on his get I purchased Mr. Gentry a grandson of Premier Longfellow out of Duchess 311th, the great sow at Wood Dale herd, making him a Premier Longfellow-Duchess. First-prize and championship winners are not the result of mere chance; they are intelligently and systematically bred—they must have quality and

individual merit which is bred into them and not put on with feed alone." Write for catalog, mentioning The Homestead. Bids sent to Mr. Dante M. Pierce will be properly handled.

"WALKER'S KIND" POLAND CHINA SALE.

Messrs. Thos. F. Walker & Son, of Alexandria, Neb., have won an enviable reputation as producers of the right kind of a big-type Poland China and their past sales reflect the credit they are given by other breeders and stock raisers. Their annual sale at Fairbury, Neb., on February 9th, will contain forty head, the equal of any they have ever offered, and are worthy the patronage of breeders from any part of the United States who seek top stuff. There will be six tried sows, fourteen yearlings and twenty gilts and are all bred for early litters. They are sired for the most part by a trio of sires that have a standard rating as among the most valuable sires of that section, namely, Exception, First Look and Blue Valley Quality, and have been bred to First Look, Blue Valley Quality and Blue Valley Expansion, a son of What's Ex and out of a Bell Metal sow. Messrs. Walker are offering some very topsey stuff—a breedly lot throughout—and some show sows. Good feet prevail, an abundance of bone, good backs and hams, a broad, short head is the rule, in fact you can be suited no matter how critical if you want a big one. A yearling by Exception will appeal to any man seeking a show prospect for 1910. Her dam is Smith's Model. Blue Valley Tec. and Lady Perfection are grand brood sows of known producing ability. Blue Valley Quality has several great gilts in the sale. The catalog is now ready. It is plain, complete and to the point. They may be had for the asking and anyone interested in good Poland Chinas should get one. Bids should be sent to Mr. Fred S. Larkin, in care of Messrs. Walker, and on an open order you can rest assured of fair treatment. See announcement on page 42.

LAST CALL FOR BLOOMINGTON.

There is going to be a horse carnival at Bloomington, Ill., next week. There have been few times in the history of the horse business, to the knowledge of the writer, when horsemen have gotten together such an extraordinarily large number of the various pure-bred draft breeds of horses to sell at public sale as have been scheduled to go over the block at Bloomington, Ill., on February 1st, 2d, 3d and 4th. The best breeders of the land have been called upon to put in their choicest specimens on this occasion. Those of the old country have sent forward consignments of animals that are regarded as the choicest things of the respective countries from which they come. France sends her Percherons, Scotland her Clydesdales, England her Shires, Belgium the greatest of Royal Belgians, Germany her Coachers, while our own country contributes animals of the same breeds, home raised that are none the less important with reference to their individual character. Nearly 400 head of registered stallions and mares of the breeds mentioned are to be sold. This sale is a remarkable one and it should receive the attention of every farmer or horseman who wants to make a personal selection of a good draft animal. Every opportunity will be given the buyer to investigate previous to the sale. The same conditions and guarantees are given as would be found in any ordinary sale. There is every chance that the great number of animals to be sold will result in low prices, and the wise man is the one who will keep this in view and be there to take advantage of them. Of course, it is a little late now to get a catalog, but those who wish to do so should write to Mr. C. W. Hurt, manager, Arrowsmith, Ill., asking for a prompt response, but remember in all cases that the sale is to be held at Bloomington, Ill. Bloomington is easily reached from every direction, having most excellent railroad facilities.

BUCK & MILLER'S DUROC SALE.

The forthcoming brood sow sale of Messrs. Geo. B. Buck and Geo. L. Miller, to be held at Crampton, Ill., February 10, 1910, will be of interest to Duroc breeders who are in need of some good sows of choice breeding bred to good boars of the best breeding. These gentlemen have bought the best stuff they could find for sale the past two years and in blood lines they certainly have the goods, and the greater portion of their offering is high-class stuff individually. There are sows in this sale fit to go in any herd in the land and as a special attraction they are offering sows that cost them a long price, and breeders of Durocs will recognize at once some of these head liners as outstanding stuff. Among them is Helen Blazes II., litter mate to Helen Blazes III., and one of the \$1,910 litter sold in Mr. Brown's record-breaking Ripley sale. She has proven herself a brood sow second to none and will be sold in this sale as a special number. They will offer an Ohio Chief sow bred to Defender, Messrs. Pancake & Brown's 1909 champion boar, Ransom Rose by Ransom Chief by Ohio Chief, dam Helen Blazes III., goes in the sale bred to Crimson Wonder Again, champion of Iowa, by Crimson Wonder I Am, champion of Iowa. Better buy her and get a Crimson Wonder III. litter, for he sires the kind that is going to win. A good gilt by Harding's King of Colonels is also bred to Crimson Wonder III. and a Proud Ohio Chief gilt also bred to Defender, champion International, 1909, and first at Iowa and Illinois State Fairs, 1909, and headed four prize herds, 1909. There are gilts by Colonel King by King of Colonels, dam S. E. Model VI. by Ohio Chief. Others are by Gold Cloud, dam Helen Blazes II., and Ohio Chief's Last by Ohio Chief. Three daughters of Manley Orion's Son by Manley Orion by Orion are big, nice gilts. There are sows by Educator, Tip Top Notcher, Big I Am by Buddy K. IV., Ambition, Paul's Tip Topper and others. They are a well-bred lot clear through and bred to first-class boars. The sale will be held at Sunny Hill Postoffice, or Crampton Station, on the Peoria & Rock Island branch of the Rock Island road. The sale follows that of Messrs. Henniger Bros. & Smith's, at Geneseo, Ill. Parties from a distance will be entertained free in Rock Island the night before the sale. Train leaving Peoria, Ill., at eight a. m. arrives at Crampton at 10.43 a. m.;

Steele's Dispersion Sale of Short-horns and Percherons

Ireton, Iowa, Wednesday and Thursday, February 9 and 10, 1910

100 REGISTERED SHORT-HORNS 13 REGISTERED PERCHERONS

THE PERCHERONS WILL BE SOLD THE FORENOON OF THE 10th

The Short-horns consist of 80 females and 20 bulls—50 head of the offering are Scotch. Families represented are the Dorothy, Orange Blossom, Mysie, Butterfly, Duchess of Gloster, Matchless, Aconite, Lavender, Raspberry, Barmpton Leaf, Victoria and Seamstress. Forty cows will have calves at side and all old enough are bred. Three imported cows sell with calves.

If you are thinking of founding a herd of Short-horns this sale will be the opportunity of the season, as the plums which we have acquired in our many years of experience in both breeding and buying will be at your mercy. We call particular attention to the many bulls suited for herd headers. Remember, the farm has been leased and we are moving to town.

The Percherons consist of six mature mares (one span weighing 4,200 lbs.), and all are broken to work. All raised colts last season and are believed safe in foal now. One yearling filly by Calypso and out of a Seducer mare, one October yearling stallion and five weanlings—three stallions and two fillies. With two exceptions, a gray and a bay, all are blacks. For catalog address

COLS. GEO. P. BELLOWES AND CAREY C. R. STEELE, IRETON, IOWA.
M. JONES, AUCTIONEERS.

Farm can also be reached from Maurice over the Great Northern Ry. Free conveyance from both Ireton and Maurice.

train leaving Peoria at three p. m. arrives at Crampton at 5:17 p. m. Trains leaving Rock Island at 8:05 a. m. arrive at Crampton at 8:43 a. m.; leaving Rock Island at 1:20 p. m. arrive at Crampton at 1:53 p. m. Parties from a distance can get to Peoria or Rock Island from anywhere at any time of day. Sale in town in warm pavilion. If you haven't a catalog, write Mr. Geo. B. Buck, at Sunny Hill, Ill., or Mr. Geo. L. Miller, at Coal Valley, Ill. See advertisement on page 44 of this issue.

PERCHERON STALLION FOR SALE.

Mr. Amos Hanson, of Collins, Iowa, has a registered Percheron stallion, past two years old, which he is describing and offering for sale in his advertisement on this page. Mr. Hanson informs us that this animal appears to be the making of a genuine draft horse. Further particulars can be had by writing him at the address given in the advertisement.

BENNETHUM'S DUROC SALE.

One of the very best lots of Durocs that will be sold at auction this year is owned by Mr. W. R. Bennethum, of Madrid, Iowa. This man has demonstrated the fact that he breeds the right sort, as stock from this herd have won championships at the leading state fairs of 1908-1909, and the offering which will be sold at Madrid, on Tuesday, February 1st, is a superior one in every respect. Sows bred to Golden Model and Advancer 1st will meet with the approval of discriminating buyers who are conversant with the future welfare of the breed. Plan to be present with Mr. Bennethum on Tuesday, February 1st. There is yet time to get catalog and readers of The Homestead will find it to their advantage to look up the announcement on page 55 of this issue. Bids sent to Mr. Dante M. Pierce will be properly cared for. Mention The Homestead when writing for catalog.

STEELE'S DISPERSION SALE.

It is doubtful if any Short-horn breeder in Iowa is better known than Mr. C. R. Steele, of Ireton. Indeed, his fame is by no means bounded by Iowa lines, but extends throughout the length and breadth of this country, wherever Short-horns are known and appreciated. Mr. Steele announces a dispersion sale which will take place at Ireton, Iowa, February 9th and 10th. On those dates he will sell 100 registered Short-horns and thirteen registered Percherons, the Percherons being sold on the forenoon of February 10th. It goes without saying that the greater part of the Short-horn offering in this dispersion sale will be composed of Scotch cattle. The most noted Scotch families are represented, including the Orange Blossom, Mysie, Butterfly, Duchess of Gloster, Victoria, etc. There will be forty cows in this offering, with calves at their side—prima facie evidence that the herd is healthy and useful. There will be bulls in this offering that are good enough to head any herd, and as the dates of this sale are not far in advance we would respectfully ask our readers to lay their plans to attend this important sale. The Percheron offering is an exceptional one considering the fact that there is such a demand at the present time for drafters. Mr. Steele is offering mares that weigh a ton in moderate flesh, and they are practically all safe in foal now. Mr. Steele has rented his farm and everything in the offering will be sold without reserve. Catalogs are now ready and will be sent on application. Another announcement of this sale will be found on this page of this issue. For further information write to Mr. C. R. Steele, Ireton, Iowa, and please mention The Homestead when you write.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago, Union Stock Yards, January 24. —Live stock market talent, always close students of conditions, are just now watching intently newspaper agitation of high meat prices, reports of the so-called "meat strike," etc. American housewives are more or less agitated by current high rates for all food stuffs and as people are never more quickly and keenly interested than when their purse is affected, publicity may have far-reaching results. Financial circles are at present somewhat disturbed by recent bear raids on stock, cotton, grain, etc., cotton especially having undergone very marked recessions. A feeling of uncertainty as to future values is as quickly communicated to the public as one of optimism. So closely akin is the financial and industrial mechanism of this country that which influences one oftentimes affects the

other. General industrial conditions, barring such depression as may be excited on the cotton industry by late declines, are as favorable as could be wished for. It is, therefore, unseemly to sound any note of alarm, but in times of plenty it is always well to have regard for the future, when days of prosperity might be changes to days of adversity.

BETTER SEND THEM IN.

Conditions are not favorable for holding cattle in the feed lot that are in suitable condition for the shambles. The only possible exception to this would be cattle of good quality that are not quite finished and weighing around 1,300 pounds and heavier. These probably could be held back for several weeks' longer feeding to good advantage, as there is and most likely will be a shortage of choice to prime cattle for several months. Barring these, however, we advise marketing at the earliest convenience. There is seldom any advance in the cattle market between the middle of January and the first of March. Between that period times are also trying for the cattle feeders, owing to climatic conditions being generally of an adverse nature. Then, to make matters worse, corn and hay are high in price.

MANY SHORT-FED CATTLE IN SIGHT.

The scarcity of choice fat cattle, the non-appearance of prime beefs, and the abundance of plain and medium grades are causing comment among traders. It goes to show that the country is not finishing their cattle this winter. Instead, they are letting them come in half to two-thirds fat conditions. These kinds were the money makers last year and feeders are prospecting in the same place for more "strikes." Not until Kansas and Nebraska begin to market will a decent showing of long-fed beefs show up. But short-fed lots will continue to come in liberal proportion to the receipts for some time. Missouri, Iowa and Illinois have a big crop of these grades to throw into the market hopper.

MANY HOGS AT LOADING STATIONS.

The hog market of the immediate future will be influenced greatly by weather and transportation conditions. Interruption of normal movement incident to late storms, heavy snowfall and blockaded rail lines is responsible for much of the recent shortage in supplies at the several markets. The price has been attractive. Heavy snows and cold weather, followed by mild temperature and muddy lots, no doubt is discouraging to further feeding. Blockade of rail lines preventing free movement of stock to market also curtailed the return of empty stock

cars to loading points. In consequence it can be taken for granted that a good many hogs are already at stations awaiting cars and the ability of railroad companies to transport loaded cars to market. Aside from the possibility that, weather permitting, temporarily liberal runs of hogs may come out, there is not a discouraging cloud on the hog market horizon. Shortage in receipts to date is so pronounced that packers must feel frightened when they look at bare cellars and contemplate spring and summer contracts for product. Prospective late spring and summer supply offers no encouragement of anything approaching normal supplies and it is certain summer swine prices will rule in producers' favor. Fat hogs should be marketed to save board bills, but shoats will make money if carried. But a few weeks more of winter confronts feeders and good judgment warrants keeping young, immature hogs near the corn crib for some weeks.

LET THE FAT ONES COME.

While the trade in sheep and lambs is traveling a rather stormy sea, sellers will hold the helm firmly as long as pork and veal stay so high. Really mutton and lamb meats are cheaper than the above. That is why rates for sheep and lambs quickly work higher under light runs. Feeders never stood a better chance to have things more their own way, if present conditions continue. There is no need of pressing anything lacking good flesh on the market, where feed is available. They will pay well for their keep. Yet we would caution against too ambitious plans. Do not hold back good fat lots. Their place is on the market. Prevailing prices are high. A bird in the hand is worth two in the bush.

TOP CATTLE AT \$8.40.

Cattle market last week closed with beef steers 10 to 20 cents higher than finish of the previous week. General demand was good. Top beefs, averaging 1,527 pounds, brought \$8.40 on Wednesday, this price being obtained by Clay, Robinson & Co. No other cattle sold within 65 cents per hundredweight of that price during the week. Bulk of sales were at \$5.35 to \$6.75. Most butcher cows and heifers went at \$3.60 to \$5.00, with canners and cutters in main at \$2.65 to \$3.35. Bulls went largely at \$4.25 to \$5.25. Trading in stockers was largely at \$3.65 to \$4.35 and in feeders at \$4.45 to \$5.00.

BUYERS DOMINATE HOG TRADE.

Packers dominated the hog market to the extent of about 10 cents last week. This

TOO LATE TO CLASSIFY.

PERCHERON STALLION FOR SALE

COAL black; age 3 years in April, 1910; weight now, 1,600 lbs. in just fair growing condition. Is one of those rugged, growthy kind; will make 2,200-lb. horse at maturity; extreme style and action; heavy bone; clean in the hock; the best of feet; is a draft horse all over. Is registered in the Percheron Society of America; is sound. Price \$600. Further particulars can be had by writing Amos Hanson, Collins, Ia.

For Sale—Duroc Jersey Sows and Gilts

Bred for April farrow.

L. L. WOODS, GRINNELL, IOWA

was accomplished under increased runs. The demand was good at the prices. Top for the week was \$8.90, secured on Tuesday, and bulk of selling was at \$8.40 to \$8.85.

LAMBS IN A DECLINE.

Prices for lambs last week lost 15 to 25 cents from the finish of the previous week. These offerings were in liberal proportion to the daily receipts. Sheep and yearlings, however, were in relatively scant numbers and rates for these held fully steady. Top lambs for the week \$8.85, with bulk of selling at \$3.00 to \$8.65. Most yearlings went at \$7.25 to \$8.25. Pinnacle on sheep \$6.35, this price being secured by Clay, Robinson & Co., which is a record one for January, and selling in main was at \$5.25 to \$6.00.

Agricultural authorities are agreed that the available acreage suitable for raising corn is now practically all occupied in the United States. New land will be opened for farming, but practically no new corn land. This means that corn is likely to continue to command a good price.

It is interesting to watch a man who has spent the best part of his life casting political horoscopes for others, place himself in the hands of his friends in the days of the sere and yellow leaf, and see him rebound back when he butts up against a sure thing.

Ask your neighbor to subscribe for The Homestead.



The great Duroc Jersey boar, Carl's Colonel, to which fifteen choice sows are bred that are offered in the sale of Messrs. Edmonds, Shade & Co., at Kingsley, Iowa February 3 1910. See advertisement on page 54.

CHAMPION BERKSHIRE SOW SALE

AT ROSEDALE FARM, AMES, IOWA,

FRIDAY, FEB. 11, 1910

40 HEAD RICHLY-BRED SOWS--30 YEARLINGS AND AGED SOWS 40
10 GILTS

INCLUDED in this offering are daughters of Lord Premier, Masterpiece, Romford Premier, Cock Robin 11th, Premier Belle's Duke, Rival Lee, Lord Premier II., Premier Longfellow, University Lee, Grand Master 3d, Star Rival and others of equal note. They are bred to Premier Belle's Duke, grand champion Iowa State Fair, 1908, sire of first-prize barrow over 12 and under 18 months; grand champion Berkshire barrow, one of grand champion pen, first-prize pig under six months and first-prize pen under six months at International, 1909. Others are bred to Baron Duke 154th, a great son of Baron Premier 40th, dam by Lord Premier. The greatest lot of Berkshires ever offered for sale from my noted prize-winning herd. Bids sent to Dante M. Pierce, Homestead representative, in my care, properly handled. Write for catalog, mentioning Homestead, to

J. W. Ogle, Ames, Iowa.

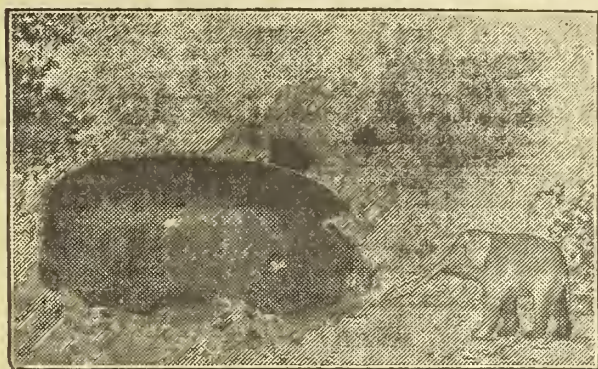
Col. Reppert and McMillan, Auctioneers.

WHEELER'S MASTODON DISPERSION SALE THEY ALL GO--FEBRUARY 24th

ALL THE MASTODON BOARS--ALL THE MASTODON SOWS

5 BOARS--40 SOWS AND GILTS

I have sold my farm and the entire herd of MASTODON POLANDS will sell at public auction on the above date, and I want every man that is interested in the MASTODON POLANDS to attend this sale and make their own selection of the BIGGEST TYPE HOGS IN AMERICA. This sale will contain sows that I have absolutely refused to price before. These sows are not a draft lot, but are the ones that have been selected through a number of years of breeding of the big-type hogs. THESE ARE THE SOWS THAT HAVE MADE THE MASTODON HERD WHAT IT IS, and any one of them will double the earning power of your herd in two years' time. All these sows are safe in pig to THE MASTODON FOUR: A WONDER 107353, Columbia Chief 2d 91499, Mastodon Chief 129083, King Mastodon 134121. There will also be offered all of my herd boars, the equal of which you cannot find in any other herd in the United States. THIS IS THE CHANCE OF YOUR LIFE TO HEAD YOUR HERD WITH A 1,000-POUND BOAR. A WONDER 107353, THE BIGGEST POLAND CHINA BOAR ON EARTH, will be offered in this sale in breeding condition, a half a ton hog. Columbia Chief 2d 91499 will show you more size and quality than you have ever seen before in one hog. King Mastodon 134121, the young boar that is a prospect for a half a ton boar and the biggest and the best grandson of Chief Price that I have ever seen. Mastodon Chief 128083, the Mastodon boar that has sired more big litters of big pigs than any other boar of his age. THE FOUR BEST MASTODON BOARS and THE FOUR BEST MASTODON SOWS in the United States will be in this sale. SEND FOR MY CATALOG TODAY. It contains the breeding and the descriptions of the great boars and sows that I am offering you. Arrange to attend this sale and SEE THE ORIGINAL MASTODONS DISPERSE. Col. H. S. Duncan, Auct. C. C. Carlin, field man for The Homestead.



There will also be offered all of my herd boars, the equal of which you cannot find in any other herd in the United States. THIS IS THE CHANCE OF YOUR LIFE TO HEAD YOUR HERD WITH A 1,000-POUND BOAR. A WONDER 107353, THE BIGGEST POLAND CHINA BOAR ON EARTH, will be offered in this sale in breeding condition, a half a ton hog. Columbia Chief 2d 91499 will show you more size and quality than you have ever seen before in one hog. King Mastodon 134121, the young boar that is a prospect for a half a ton boar and the biggest and the best grandson of Chief Price that I have ever seen. Mastodon Chief 128083, the Mastodon boar that has sired more big litters of big pigs than any other boar of his age. THE FOUR BEST MASTODON BOARS and THE FOUR BEST MASTODON SOWS in the United States will be in this sale. SEND FOR MY CATALOG TODAY. It contains the breeding and the descriptions of the great boars and sows that I am offering you. Arrange to attend this sale and SEE THE ORIGINAL MASTODONS DISPERSE. Col. H. S. Duncan, Auct. C. C. Carlin, field man for The Homestead.

LAND CHINA BOAR ON EARTH, will be offered in this sale in breeding condition, a half a ton hog. Columbia Chief 2d 91499 will show you more size and quality than you have ever seen before in one hog. King Mastodon 134121, the young boar that is a prospect for a half a ton boar and the biggest and the best grandson of Chief Price that I have ever seen. Mastodon Chief 128083, the Mastodon boar that has sired more big litters of big pigs than any other boar of his age. THE FOUR BEST MASTODON BOARS and THE FOUR BEST MASTODON SOWS in the United States will be in this sale. SEND FOR MY CATALOG TODAY. It contains the breeding and the descriptions of the great boars and sows that I am offering you. Arrange to attend this sale and SEE THE ORIGINAL MASTODONS DISPERSE. Col. H. S. Duncan, Auct. C. C. Carlin, field man for The Homestead.

W. W. WHEELER, HARLAN, IOWA

O. E. OSBORN'S SALE

DUROC BRED SOWS

Weston, Iowa, Friday, February 11, 1910

40 Head--10 Matured Sows--30 Spring Gilts

THERE will be two Ohio Chief sows in my sale, bred to Model Critic, two fall sows by Crimson Critic, five daughters of Lafollette, two by Crimson Wonder Again, six by Protection Again and two by Baxter's Buddy 3d. I will also sell Lady Browning, a daughter of Buddy K. IV., out of a Proud Advance dam. These are bred to Model Critic, Proud Commodore and Crimson Chief. Write for my catalog and be sure to come to my sale. Address

O. E. OSBORN, WESTON, IOWA.

Col. F. F. Luther, Auct.

M. T. White, Field Man for Homestead.

COL. REPPERT'S

WESTERN SALE CIRCUIT

DUROC JERSEY BROOD SOWS

FEB. 14--E. Z. RUSSELL, BLAIR, NEBRASKA

FEB. 15--M. S. MOATS, MISSOURI VALLEY, IOWA

FEB. 16--C. W. HUFF, MONDAMIN, IOWA

FEB. 17--JNO. R. TUPPER, WOODBINE, IOWA

FEB. 18--W. L. HULL, LOGAN, IOWA

FEB. 19--E. B. RYAN, NEOLA, IOWA

THIS will be one of the great circuits of the year. Daughters of the most noted sires bred to the noted boars of the day will be sold in this great week of sales. Drop a card to each of the above breeders at once and have him mail you a catalog. By all means arrange to attend this great week of sales and buy some of these good sows. Mention Homestead.

TOO LATE TO CLASSIFY.

Percheron and Clydesdale STALLIONS

I have a splendid lot of three-year-old black Percheron and Clydesdale stallions that are strictly first class and I am making bed-rock prices on them. Address

R. O. MILLER, LUCAS, IA.

Schmieder's Big Poland Sows

A FEW choice bred sows and gilts, bred to Schmieder's Big Surprise and King Corrector, sired by Long Dude and King Corrector. JOHN SCHMIEDER, REMSEN, IOWA.

BULLS FOR SALE

I AM offering one good Short-horn bull and one good Polled Durham bull for sale. I am pricing these bulls where anybody can afford to buy. Address

E. B. RYAN, NEOLA, IOWA.

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. Ben Bohlander, R. 2, El Paso, Ill.

DUROC bred gilts, sired by Ponca Chief by Belle's Chief; not large, as I have been short of feed. Priced right. F. A. Ham, Saronville, Nebraska.

TOO LATE TO CLASSIFY

25 Duroc Jersey BROOD SOWS

FOR SALE at private treaty. Sired by Mammoth Critic, Belle's Chief I Am and Link's Ohio Crimson. These sows are bred for March and April farrow. Prices reasonable.

T. J. LINK, Winterset, Iowa.

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address S. J. Philson, Harlan, Iowa.

Duroc Jersey Sows for Sale

I HAVE a few choice bred sows for sale at private treaty, and they are bred to my noted prize-winning boars. C. E. VEAK, ESSEX, IOWA.

Percheron Stallion and mares. A two-year-old stallion, one two-year-old and one eight-year-old mare. Extra good ones at right prices. J. Aug. Carlson, Route 1, Ogden, Iowa.

When writing to advertisers please mention this paper.

TOO LATE TO CLASSIFY.

GUERNSEY CHAMPION A BREEDER

GRATIFY, first-prize winner at Iowa, Alaska, Yukon, and the fourth at National Dairy Show, and second at Minnesota and Wisconsin in 1909, as a two-year-old and junior champion at Wisconsin in 1908, as a yearling, is for sale. He is an excellent individual, a sure breeder, and should head a good herd. Price \$250. Fox Bros., Waukesha, Wis.

TOO LATE TO CLASSIFY.

DEFENDER and KING WONDER

Two of the greatest sons of King of Cois. head my herd of Duroc Jerseys. They are assisted by Ransom Chief by Ohio Chief out of the \$1,200 Helen Blazes III. Write me for what you want.

ERNEST PANCAKE, RANSOM, ILLINOIS.

HAGER'S DUROC JERSEY BROOD SOW SALE

Avoca, Iowa, February 12, 1910

45 Head YEARLING AND MATURED **45**
SOWS and SPRING GILTS

AMONG the eight head of matured brood sows to be sold are daughters of Proud Advance, Jim Advance, Commodore, Belle's Wonder and Avoca King 2d. These are all bred to Peerless Chief, one of the greatest breeding sons of Ohio Chief. The gilts will be sired by Model Chief 3d, Tip Chief, I Am Crimson Wonder Again, Ohio Chief I Am, King Solomon and King's Col. These will be bred to Proud Col., a son of King's Col., and also to Massena Chief. It is the best offering I have ever put up at public auction. Col. F. F. Luther, Auctioneer. M. T. White, Field Man for Homestead. Write for my catalog at once. Address

A. F. HAGER, AVOCA, IOWA.

"WALKER'S KIND" POLAND CHINA SALE

TO BE HELD IN

Fairbury, Neb., February 9, 1910

40 HEAD An offering fully up to the usual "Walker" standard—one of size, bone, feet, quality and breed character. There will be six tried sows, fourteen yearlings and twenty spring gilts sired largely by First Look, Blue Valley Quality and Exception, and are bred to three of the greatest producing sires in Nebraska—Blue Valley Quality 43026, First Look 43025 and Blue Valley Expansion, an exceptional son of What's Ex out of a Bell Metal sow. The catalogs, which are now ready and replete with details and breeding. One for the asking. Bids should be sent to Fred S. Larkin, at Fairbury, Neb., in my care. Col. Z. S. Branson, auctioneer. Address for catalog,

Thos. F. Walker & Son, Alexandria, Neb.

THE BEST LOT OF POLANDS

TO BE SOLD IN NEBRASKA

THIS SALE SEASON, WILL UNDOUBTEDLY BE SOLD IN THE SALE
OF H. B. FRANCISCO, AT

Hastings, Nebraska, Thursday, Feb. 10th

There will be forty head—four tried sows, one fall yearling and thirty-five gilts—big, smooth, short-pasterned, good-footed individuals with good hams and well-made backs, breezy heads and not fat—just grown. The tried sows are Gem's Tec., Naomi's Model and Miss Made Right, the dam of Belle Nettle. The outstanding litter of any section are eight in number by Great Hadley, a Nebraska prize winner. Big Hadley-Big Tec. bred, out of Blue Belle, an Expander-Chief Justice sow. There are several other choice litters equally as strong—not a poor one in the entire offering. They are bred to King Mastiff 53032, a Nebraska first-prize winner of 1909, and Great Hadley, the former by Meese's Mastiff. The catalog is ready. The individuals will please the most exacting. Either be represented or present if possible. Send bids to Fred S. Larkin, of this paper. Colonel Doty, auctioneer. For catalog address

H. B. FRANCISCO, HASTINGS, NEB.

HOLSTEINS At Auction

TO CLOSE AN ESTATE

Will be sold at the Stock Pavilion at University Farm
MADISON, WIS., FEBRUARY 19, 1910

ENTIRE HERD OF 100 HEAD---WE HAVE THE BEST

Daughters of the following standard bulls are included: De Kol 2d's Paul De Kol No. 2, Sir Johanna Friend Clothilde, De Kol Admiral Paul, Johanna De Pauline 2d's Lad, Princess Sir Ormsby, Aaggie Cornucopia Pauline Count, De Kol Admiral Paul 2d and Sir Ormsby Hengerveld De Kol. No other herd contains daughters of so many good bulls. The cows and heifers which are bred have been bred to De Kol 2d's Paul De Kol No. 2, sire of thirty A. R. O. cows; Sir Johanna Friend Clothilde, sire of sixteen A. R. O. cows, and Madison Sir Ormsby, whose dam, Duchess Ormsby 3d's Butter Girl, her dam and her granddam average 4.88 per cent fat, making him the richest butter-bred bull in the world. Catalogs ready Feb. 7th.

GAY'S STOCK AND DAIRY FARM, MADISON, WISCONSIN

McCullough & Johnson's SCOTCH-BRED

SHORT-HORN

SALE

TO BE HELD ON THEIR FARM

TWO MILES NORTH OF LESTER, IOWA,
FIVE MILES SOUTH OF HILLS, MINN.,

TUESDAY, FEB. 8, 1910

WE have cataloged 50 head of our best cattle for this sale, and we have bred practically all of the younger animals, and this gives us pleasure. The offering consists of one imported cow, Imp. Evira's Rose 22d, and her daughter, by Imp. Nonpareil, with a heifer calf at foot; also her bull calf one year old, by Grand Baron 2d. There will be nine two-year-old heifers, ten one-year-old heifers and eight yearling bulls. The balance are all cows of breeding age, 12 with calves at foot, and all of the females old enough have been bred to Major Mysie, a straight Scotch bull. The offering will be in a nice, smooth condition, and all in good flesh, and have all been tested for tuberculosis. The yearlings and two-year-olds are an exceptionally fine lot, and mostly the sons and daughters of Grand Baron 2d and Vulcum, both exceptionally good Scotch bulls. There will be free accommodations from Hills, Minnesota, and from Lester, Iowa, to the farm. For catalog; address

McCULLOUGH & JOHNSON, STEEN, MINN.

COL. GEO. P. BELLOWS, AUCTIONEER.

Sam Stewart & Son's Great Offering Prize-Winning

Duroc Jersey Brood Sows

KENNARD, NEB., FEBRUARY 9, 1910

40 Head 10 Yearling and Matured Sows **40**
and 30 Spring and Fall Gilts

Including Kirk's Choice, first-prize aged sow at Nebraska State Fair, 1909; Alberta, first and reserve champion sow, 1907; Elberta, first prize under year, 1903; Kirk's Choice 2d, second-prize junior yearling, 1908, and other leading winners. Also daughters of Redwood Chief, Ruby Chief, Kruger Chief, Kruger and other well-known sires. These are bred to our great young boar, I Am Perfection Wonder, first-prize boar at Nebraska State Fair, 1909; also to Chief Sensation and Chief Advancer. The like of this offering will not be seen in any sale ring this winter. Col. F. F. Luther, auctioneer. M. T. White, field man for The Homestead. Send for my catalog at once. Address

Sam Stewart & Son, Kennard, Neb.

BROWN'S DUROC SALE

AT FARM NEAR

Osceola, Neb., February 11th

An Offering from one of Nebraska's Superior Herds,
Made Up of 45 HEAD; 12 Yearlings and Tried Sows
and 33 Gilts, Bred to Farrow in March, April, May.

Twelve daughters of Red Knight, the popular champion of 1905. Ten daughters of Red Duster; seven daughters of Gold Dust Knight, a Nebraska State Fair winner of 1908; one daughter of Medoc, and others by Gold Dust Chief, Belle's Echo, Proud Ceres, and are bred to Red Knight, Red Duster, Mascot 91069, a young boar attracting much attention; Long Crimson I., Crimson Wonder 4th, both sons of Crimson Wonder 3d, and Medoc Jr., the champion of 1909. An offering of select sows and gilts in condition to go on and make good. Colonel Callahan, auctioneer. Send bids to Fred S. Larkin, of The Homestead. Catalog gives full details and may be had upon application to

E. J. BROWN, OSCEOLA, NEBRASKA.

LA FAYETTE STOCK FARM

ANNOUNCEMENT! The season for buying stallions has opened. We are ready for business with the grandest lot of uniform high-class horses ever offered.

PERCHERONS A great selection of blacks and grays, ages two to six years, with the bone, weight and quality, including every first prize-winner as well as other horses in the money at the 1909 Paris show, and the largest prize-winners at the American shows this year. Our entire lot of Percherons are the very best money will buy.

BELGIANS A most remarkable lot of horses of this well-liked breed, great big massive horses of wonderful good make-up. Stock horses that will produce the big market horses so profitable to the farmer. All the good colors, combined with other good qualities, that will suit a buyer for a Belgian.

SHIRES We have them in every way up to the standard of our other draft breeds, from the best blood in England. They stand out strong in all the points that go to make a good Shire horse.

GERMAN COACH AND HACKNEYS The right kind of a Coach horse is the Coach horse to buy, a German Coach or Hackney stallion from the La Fayette Stock Farm, where you have plenty to select from—a lot that have a national reputation in the show rings, east as well as west, for their excellence, for breeding purposes.

We offer over 200 head of stallions and mares of great merit at most reasonable prices and a good honest guarantee. Do yourself justice by seeing our horses before you buy.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.
W. A. Dobson, Iowa Agent, 1374 21st Street, Des Moines, Iowa.

BROOKMONT HEREFORDS

ODEBOLT, IOWA.

THE starting of a herd of pure-bred cattle is a matter for serious consideration. It is too expensive to make any reckless experiments. Brookmont Farm has made the experiments. You may profit by them. Do you know that Imp. March On, the greatest living bull of the breed, heads Brookmont Herd? Do you know that the world affords no better blood? Come to headquarters for March On blood. A part of the Brookmont Farm has been sold, and we must reduce the herd to fit the remaining acres. That is the reason we are offering such remarkably low prices on Hereford bulls, cows and heifers. Come and see how good they are and how cheap we can sell you a foundation herd. Come at once.

A. E. COOK, ODEBOLT, IOWA

Phillips' Poland China Sow Sale

ON THE FARM NEAR

New Sharon, Iowa, Wednesday, Feb. 9th

The Best Bred Sow Sale of the Year

I have cataloged for this sale eight matured and tried brood sows, two fall yearlings and thirty-five gilts of March and April farrow. Most of the young things are the get of my great herd boar, On Exhibition, a hog whose pedigree is unsurpassed and whose size (he weighs 900) and quality are just as good. Those not of his get are bred to him. His daughters are bred to Dude's Wonder or P.'s I. X. L. The former is of popular prize-winning blood and the latter has a pedigree that has size at every point. Two of the biggest gilts to be sold this year have been cataloged as a special attraction. They are by Jumbo G. B., he by Jumbo. Don't fail to see them. You will want them if you get your eyes on them. This is the best, most valuable and most promising lot of sows I have ever raised. They cannot fail to suit those who want the best. Catalogs are now ready and may be had on application to the address given below. W. B. Duncan, auctioneer.

C. W. PHILLIPS, NEW SHARON, IA.

DISPERSION SALE OF HIGH-CLASS, DOUBLE-STANDARD

POLLED DURHAMS

THE PROPERTY OF J. J. HOLLAND

At the Farm, 2½ Miles South of Oxford, Iowa, at One O'Clock P. M.

TUESDAY, FEBRUARY 15, '10

Col. C. C. Keil, of Grinnell, Iowa; Col. C. F. Doty, of Oxford, Iowa, Aucts.

When Writing to Advertisers Please Mention This Paper

IMPORTANT

PERCHERON SALE

At Waterloo, Ia., Thursday, Feb. 17, 1910

55 HEAD 45 MARES 55 HEAD
10 STALLIONS



MARES INCLUDED IN SALE.

THE greatest lot of imported and home-bred Percherons that will be sold at auction this year. Fifteen mares that will weigh 15 tons; 12 matched teams. Mares of breeding age safe in foal to **Superior 40605** (weighs 2,200 in breeding condition); sire of International and State Fair winners. All yearlings and 2-year-olds sired by **Superior**. Write for catalog to

Jas. Loonan or T. F. Glenney, Waterloo, Ia.

Cols. Carey M. Jones and Wm. Holland, Auctioneers.

J. B. DAVIS & SON'S

DUROC SALE

SOWS AND GILTS BRED

FAIRVIEW, KAN., WEDNESDAY, FEB. 9th

40 Head Large, Growthy Gilts, As Good As Any Grown

J. B.'s King of Cols. by King of Cols., out of an Ohio Chief dam; Double Rule, grandson of Golden Rule; Monarch's Choice by Monarch, a Protection-bred boar, and out of a W. L. A.'s Choice Goods dam; Lincoln Top Jr. by Lincoln Top, and Hero by Corrector's Hero are the sires. They are bred to Crimson Rule 91975, a Crimson Wonder-Golden Rule boar; Monarch's Choice 91977 (see above), and Pride's Col. 91979 by J. B.'s King of Cols. and out of a Fairview Chief dam. All for early litters. I think I am selling as great a string as sells this year. Every one a high-class individual. Send for my catalog and come to the sale if possible. Col. C. H. Marion, auct.

A. T. Cole representing this paper. Address

J. B. DAVIS & SON, FAIRVIEW, KANSAS.

COOPER'S GREAT BRED SOW SALE

IN PAVILION AT EASTSIDE FARM, ADJOINING

HEDRICK, IOWA, THURSDAY, FEBRUARY 10, 1910

The most select draft of intensely-bred big-type Poland Chinas with big-type blood lines ever made in the corn belt, including twenty of the largest and most noted tried sows of the type and breed, the tops of many of the leading big-type sales the past two seasons. Forty head of big, growthy gilts, the progeny of the largest and most noted Poland China boars and sows in the world, sired by such boars as Big Ex, Chief Price, Superior Look, Jumbo, Chief I. X. L., Columbia's Chief, Osborn's Perf., Chief Jumbo, R.'s Pawnee Lad and other boars of note, and all out of big matured dams. The offering will be bred to and safe in pig from the service of boar, catalog will state. Most of the tried sows will be bred to Big Ex, the 1,070-pound, thirty-months-old son of the noted Pawnee Chief. Big Ex will have several gilts in the sale bred to Superior Look and Chief Price, a trio of big boars with but few equals, and no superiors, in the corn belt. The chance to buy the best of foundation stock or strengthen your herd by buying the best the breed affords. Strictly a high-class offering and no tail enders. Look up field notes for further information and send your address at once for the great catalog which gives complete descriptions and breeding of each lot, which will be mailed to those only who apply. Mention The Homestead when writing.

COL. W. B. DUNCAN AND ASSISTANTS Aucts.

W. H. COOPER, HEDRICK, IOWA.

When Writing to Advertisers Please Mention This Paper

NOTED ILLINOIS DUROC SALES

Tuesday, February 8, '10

S. E. EAKLE & SONS

Prophetstown, Illinois

45 HEAD--TOPS OF THE HERD

THIS is the best offering yet made from our herd. Consists of five aged sows by PROUD ADVANCE, ROY ADVANCE, and KEEPON III.; fifteen fall yearlings by MODEL JIM by Tientsin and PROPHETSTOWN BOY by King West; twenty-five spring gilts by GOLD CLOUD, COL. KING, MODEL WONDER, MODEL AGAIN, MODEL CHIEF. They are bred to Golden Model VI. by Golden Model II., Col. Browning by Chief's Colonel, S. E.'s Model by Model Chief. A strictly useful offering in every respect. Write for catalog, mentioning The Homestead, to

S. E. EAKLE & SONS,
Prophetstown, Illinois.

AUCTIONEERS---Cols. Reppert, Buck, Pittman and Plumley.

Thursday, Feb'y 10, '10

BUCK AND MILLER

Crampton, Illinois.

50 HEAD-TOPS OF TWO HERDS

E DUCATOR'S Advance by Educator, dam Proud Fancy. Quite a few of the offering are bred to this great young fellow and he is a show prospect. Others are bred to Prince Wonder Again by Prince Wonder, dam Helen's Model by Ohio Chief, dam Helen Blazes III. This fellow is another show prospect and a litter mate to Prince Wonder II., the boar Mr. Pancake kept in this herd. The major portion of this offering are bred to this fellow, and Col. King's Wonder, a great son of King of Colonels. While sows by Ohio Chief, Ransom Chief and Harding's King of Cols. are bred to Defender and Crimson Wonder III. Others are by Choice Rule, champion Ohio State Fair, 1908; Gold Cloud, champion Illinois State Fair, 1904; Tip Top Notcher, champion World's Fair, St. Louis; Educator; Col. King by King of Cols.; Big I Am by Buddy K. IV.; S. E.'s Model, full brother to Model Chief II., champion Iowa, 1908; Manley Orion's Son by Manley Orion; Ohio Chief's Last and others. Write for catalogs, mentioning The Homestead, to

GEO. B. BUCK, SUNNY HILL, ILLINOIS
or GEO. L. MILLER, GOAL VALLEY, ILL.

Auctioneers---Cols. Reppert, Kraschel, Plumley.

SEND BIDS TO DANTE M. PIERCE, HOMESTEAD REPRESENTATIVE, IN OUR CARE.

JOHN GODDARD'S SALE

Duroc Jersey Brood Sows

HARLAN, IOWA, FEBRUARY 7, 1910

40 Head Tried Sows and Gilts 40

THERE will be two daughters of Model Chief in my sale. Also daughters of the great Muncie Chief, Clearmont's Model, Belle's Chief, Ohio Chief, Valley Chief, Golden Model 2d, Tientsin, Model Chief 3d, Crimson Wonder Again, Ohio Chief II. and other noted sires. These will be bred to Goddard's Col., a son of Prince of Cols., and he is considered one of the best Col. boars in the state. Also to Massena Chief, a full brother to Valley Chief, and Kruger Advance. I am putting up one of the best offerings of the season. Write for my catalog at once. Address

JOHN GODDARD, HARLAN, IOWA.

Col. F. F. Luther, Auct.

M. T. White, Field Man for Homestead.

JAMES COCKERTON'S

BIG-TYPE POLAND CHINA SOW SALE

WHITING, IOWA, FEBRUARY 8, 1910

48 Head--29 Yearling and Matured Sows 48 19 Head Choice Gilts

I AM selling a splendid lot of big-type, big-boned sows, sired by the great boars, Standard Chief 2d, Long Tom, Winning Dude, Dorr's Temptation, Long Chief and Monarch Jr., and out of my very choicest big-type sows. If you want something really first class in big-type sows, I have them in this sale. Bred to my great boars, Sioux Chief and Longfellow. Write for my catalog. Cols. H. S. Duncan and Jas. Jensen, aucts. M. T. White, field man.
JAMES COCKERTON, WHITING, IOWA.

O. S. LARSON'S

DUROC JERSEY BRED SOW SALE

LOGAN, IOWA, THURSDAY, FEB. 10, 1910

40 HEAD 10 YEARLING AND AGED 40 SOWS--30 GILTS

THESE sows are bred to my two great boars, KING THE COL. and CRIMSON THE WONDER. The gilts are a "corking" good lot from beginning to end. They are sired by Orion's Success, Fancy King, Savannah Belle's Chief, Huff's Advance and Belle's Chief I Am. I am going to offer a splendid lot of sows and want you to attend my sale. Catalogs now ready. Address

Col. F. F. Luther, Auct.
M. T. White, Field Man.

O. S. LARSON, LOGAN, IA.

R. W. HALFORD'S BIG-TYPE

POLAND CHINA BROOD SOW SALE

MANNING, IOWA, FEBRUARY 11, 1910

40 HEAD--THE BIGGEST OF THE BIG--40

MOST of the gilts will be bred to Jumbo's Prospect, the highest priced boar of 1909, and one of the greatest boars I have ever owned. The gilts are mostly sired by Long Chief, Chief Price 2d and Osborn's Chief. The gilts will weigh from 300 to 350 lbs., and are cracker jacks. My offering will be one of the greatest offerings of big-type Poland Chinas, with quality combined, that will be sold this year. Write for my catalog at once and mention Homestead. Col. H. S. Duncan, Auct. M. T. White, field man for Homestead.

R. W. HALFORD, MANNING, IOWA.

TOM GOSSARD'S GREAT SALE DUROC JERSEY BROOD SOWS

PONCA, NEB., FEB. 2, 1910

40 HEAD--20 Gilts--20 Brood Sows

I AM selling one of the greatest sales ever offered in Northeast Nebraska. There will be two daughters of Proud Advance, five daughters of Ohio Chief II., 19 daughters of the great Proud Chief; others by Missouri Gold Finch, Reed's Banker, Perfection Wonder and other noted sires. It is a high-class offering bred to high-class boars. Write for my catalog and come to my sale. Col. F. F. Luther, auctioneer. M. T. White, field man for Homestead. Address

THOMAS GOSSARD, PONCA, NEBRASKA.

THUIRER'S POLANDS At Auction

C. L. Thuirer will sell on his farm, 3 1-2 miles southwest of Fostoria, Iowa, Thursday, February 3, 1910

50 HEAD BRED SOWS AND GILTS

There will be eight matured sows, ten fall yearlings, the balance spring gilts. The matured sows are sired by Producer, Sunshine T., Onward, Surprise Wonder and Long Tom, and they are bred to Crow's Model 2d and Onward 2d. I am selling Lady Tecumseh 2d, also three daughters of Molly Fair 6th, and sired by Long Tom, and safe in pig to Crow's Model 2d; also Look Again 6th, and bred to Crow's Model 2d. Another good one in the offering is Wonder A. by Big Surprise and bred to Onward 2d. The fall yearlings are all the get of Long Tom and bred to Crow's Model 2d, Long Dude Jr. and Onward 2d. Parties coming from Crow's sale will have free hotel accommodation at the Central Hotel, in Spencer, Iowa; also free livery from Moore's livery to the farm; also will meet parties at Fostoria wishing to attend the sale. Col. W. R. Richard, auctioneer. E. T. Parker, field man. For catalog address,

C. L. THUIRER - FOSTORIA, IOWA.

Remember the E. Gritters sale at Hull, Iowa, February 1st; W. J. Crow's sale at Webb, Iowa, February 2d.

SCHMAL'S DUROC SOW SALE

TO BE HELD AT

SUTTON, NEB., TUESDAY, FEB. 1, 1910

33 Head An offering consisting of 12 tried sows, 5 fall yearlings and 16 gilts **33 Head**

Bred to Red Top, a valued son of Echo Top and Miss Advance by Advance, and to Kant Be Better, a son of Kant Be Beat and Red Molly by Billie K. Among the top sows are Red Lady by Red Reuben, out of Sutton Lady; May by Imp III., out of Paragon by Red Knight; Miss Fancy by Commodore Lad, out of a daughter of Jack Orion. The gilts are by the herd boars, Davis Chief, Echo Top and Farmer Burns. Catalogs are now ready and may be had upon application. Bids should be sent to Fred S. Larkin, in my care. Address,

GEO. SCHMAL, SUTTON, NEBRASKA

COL. CALLAHAN, AUCTIONEER.

FARVER'S BIG POLANDS AT AUCTION

AT OUR FARM ONE MILE EAST OF

OCHEYEDAN, IA., THURSDAY, FEBRUARY 3, 1910

WE will sell 40 head of the big type of Poland China bred sows. There will be 20 tried sows, 5 fall gilts and 15 spring gilts. They are the daughters of Up To Date Kind 122547, Model Tecumseh 135231, Our Dodo 145743, Pawnee Prize 145747, King Dodo 86645, Big Surprise 48274, and are bred to Up To Date Kind, Our Dodo, Pawnee Prize. For size and quality, none better. Parties coming to our sale from W. J. Crow's sale will have free entertainment at the Osceola House, in Sibley, Iowa. Col. J. A. Benson will be the auctioneer. Free transportation to and from the farm from Ocheydan. For catalog address

FARVER BROS., OCHEYEDAN, IOWA.

PAUL'S POLAND CHINA SALE To Be Held at Marshalltown, Iowa, Feb. 8th

Forty-five head of bred sows as good as will sell this year—the big kind that are big. Nine are tried sows by Monarch, Look Up, Weighed in the Balance, etc. Six are fall sows by Balanced Jumbo, Donald Lad and Teddy Perfection. Thirty are big spring gilts by the same sires. They are bred to Balanced Jumbo, Perfection Meddler, Chief Price 3d and Modesty's Jumbo. These sows are big enough and good enough for anybody. Some are show sows and all are breeding sows. Auctioneers, McIlrath and Cooper. Catalogs are now ready.

F. G. PAUL - MARSHALLTOWN, IOWA.

ABSOLUTE DISPERSION SALE

OF

WHEELER'S Table-Backed HEREFORDS

45 Cows and Heifers---25 Bulls

WHICH MEANS THAT EVERY ANIMAL IN WHEELER'S CELEBRATED HERD OF TABLE-BACKED HEREFORDS WILL BE SOLD AT

Harlan, Ia., Thursday, February 10, 1910

I have sold my farm and have to give possession March 1st. Here is a chance to buy such cows as Imp. Victorine 3d by Clarence; Imp. Quince by Barry; Imp. Mayoress by Majestic; Imp. Kenswick Rose 4th by Ignition; Imp. Garland by Britisher; Imp. Dowager by Spartan; Rosetta by Beau Brummel; Peggy Primrose Jr. by Albert; Lady Hesiod 3d by Hesiod 17th; the \$40,000 Armour Sunflower by St. Louis; Lady Columbus 26th by Columbus; Delight by Gentry Britton; Camille by Grove Cherry Boy 2d. These cows cost me from \$475 to \$1,000 each and they have made a fortune for me and they will make the buyers independently rich. Several of them have calves at foot by Beau Donald 37th and they are bred again to Beau Donald 72d. There will be an endless amount of sons and daughters of Beau Donald 37th in this sale, and lucky will be the breeder who gets my great breeding bull, Beau Donald 72d. Ten head of Beau Donald bulls. I am going to offer in a day what has taken me a lifetime to accumulate. The man that fails to attend this sale will regret it all his life. Send for catalog. I invite everybody on earth to spend February 10th with me.



W. W. Wheeler, Harlan, Iowa.

Col. H. S. Duncan, Auctioneer.

H. L. CANTINE'S DUROC JERSEY BROOD SOW SALE

AT CHEROKEE STOCK FARM

QUIMBY, IOWA, FRIDAY, FEB. 4, '10

50 Head 25 Yearling and Aged Sows **50**
25 Choice Gilts

THERE will be three very excellent daughters of Ohio Chief in the sale; one daughter of Proud Advance, two by King Solomon out of Proud Lady II.; others by Top Notcher Chief, Crimson Wonder Jr., Count Tolstoy and other noted boars. It is one of the best lot of sows we have ever cataloged for sale from our Cherokee Farm. Col. F. F. Luthé, auctioneer. M. T. White, field man for Homestead. Write for catalog and come to our sale. Address

H. L. CANTINE, QUIMBY, IOWA.

D. C. LONERGAN'S GREAT SALE "Big Victor" Poland China Sows FLORENCE, NEB., FEBRUARY 4, 1910

45 HEAD---25 SPRING GILTS, 20 YEARLING AND MATURED SOWS

There will be about 30 head in the sale that are sired by or bred to my great prize-winning boar, Big Victor, considered to be one of the greatest breeding boars today in Nebraska. There will be 7 spring gilts in the sale sired by King's Hadley, Nebraska State Fair Sweepstakes boar 1909, and they are very choice, most all bred to Big Victor. Also a cracking lot of sows by Guy's Price 2d. There are some extra choice sows in the sale by Big Victor and out of my noted brood sows, Hazel Price and Side Pocket. Those who have seen my offering pronounce it the greatest lot of Poland China brood sows that will be sold in Nebraska this winter. Send for my catalog and mention The Homestead. Col. H. S. Duncan, Auctioneer. M. T. White, field man for The Homestead. Address for catalog

D. C. LONERGAN, FLORENCE, NEB.

NOTABLE HEREFORD SALE

WEST LIBERTY, IOWA, MONDAY, JANUARY 31

IN HEATED SALE PAVILION

50 HEAD--35 FEMALES, 15 BULLS--50 HEAD



THE females are daughters of MARK HANNA, champion of the Buffalo Pan-American Exposition; PERFECTION YET by the champion, Perfection Beau Brummel, and FULFILLER, many times champion. Twenty calves at foot by IMPROVER'S HESIOD, one of the greatest sons of Improver. Every female cataloged either has calf at foot or is safe in calf and in many instances the cows are rebred. The bull consignment consists of fifteen head—three two-year-olds and twelve yearlings by PERFECTION YET and IMPROVER'S HESIOD. Practically the entire offering are of my own breeding and will meet with the approval of discriminating buyers. Write for catalog, mentioning The Homestead. Address

D. S. O'LEARY, AUCTIONEERS--- IOWA CITY, IOWA.
COLS. EDMONSON and REPERT

FOURTH ANNUAL SALE Registered Holstein-Friesian Cattle SOUTH OMAHA, NEBRASKA, TUESDAY AND WEDNESDAY, FEB. 8-9, 1910 125 HEAD OF ALL AGES

Consisting of 50 cows and heifers in milk or soon fresh; 30 heifers from 12 to 24 months old, mostly bred to calve in spring and summer, by such noted bulls as Sunny Jim, Milk and Butter King 2d and noted eastern sires; also 20 heifers under one year old, sired by the best bulls of the breed. There will be 25 bulls from 2 to 24 months old, including sons of De Kol 2d's Butter Boy 3d, King Segis Pontiac, King of the Pontiacs, Sunny Jim and others of equal merit. A number of A. R. O. cows, and daughters of A. R. O. cows, including Ricka, the cow that won the Nebraska Dairymen's Association test for the year just closed, making almost 1,600 pounds of milk and over 600 pounds of butter in the year. Her yearling daughter sired by Sunny Jim is also included. Also several granddaughters of Hengerveld De Kol that are safe in calf to Milk and Butter King 2d, son of the \$1,000 Milk and Butter King. In all the largest and best lot of registered Holstein-Friesians ever sold at auction in the central West. Every animal over six months is tuberculin tested. Catalogs now ready. Write for one at once and mention Homestead.

HENRY C. GLISSMAN, Station B, OMAHA, NEB.
Col. Kelly and Others, Auctioneers.

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SUNNY VALLEY GUERNSEYS

HERD headed by Lord Wankesha 10145 and Evelyn's Yeksa 10232, two of Wisconsin's noted bulls. Herd numbers 50 head. Some very choice young bulls for sale. Herd tuberculin tested.

W.M. M. JONES, WAUKESHA, WISCONSIN

BONNY BOY GUERNSEYS

I have a few young bulls for sale at this time. They are from some of my best milking dams. Address,
RALPH TRATT, WHITEWATER, WIS.

GUERNSEY CHAMPION FOR SALE

THE two-year-old bull, Gratify, first prize winner at Iowa, Seattle and the Fourth National Dairy Show, and second at Minnesota and Wisconsin in 1909, and junior champion at Wisconsin in 1908 as a yearling. He is an excellent individual and should head a good herd of Guernseys.

Fox Bros., Waukesha, Wis.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 9386, a son of Stranford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls.

Ben Clark & Son, R. 1, Whitewater, Wis.

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FOR SALE—1 am overstocked and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

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FOR SALE Bulls from three to fifteen months of age. Dams have made from four to seven hundred pounds of butter in one year, official test. Send for sale list.

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JERSEYS

CREAMERY patrons who wish to grade up their herds for better results should buy a Jersey bull calf from a dairy herd located in a country where dairying is a specialty.

\$50 Does the Trick.
SUNNY PEAK FARM,
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IS offering a few yearling bulls, sired by Blue Bell's

Einiment 7474. Also a few bull calves. These are a fine bunch and will be sold cheap. For particulars, write Fred Stuble, Black Earth, Wis.

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H. C. Young, Lincoln, Neb. (On street car line)

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YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. **Fred Tschody & Sons, Monroe, Wis.**

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We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices.

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50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address **Riley Bros., Albion, Neb.**

2 Pure Scotch bulls for sale; 12 to 16 months old; 3 all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 15927. Can also spare one of my herd bulls, Fairy Knight 262490, a red four-year-old, by the great March Knight. T. A. Davenport, Belmont, Ia.

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FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, **JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.**

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FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. **Wm. M. Smith & Sons, West Branch, Iowa.**

SCOTCH BULLS

SIRE by Carter's Choice Goods and out of imported cows of choicest breeding. Also some Big Poland China fall pigs for sale, either sex. Come or write for what you want.

M. P. HANCHER - ROLFE, IOWA.

Good Scotch Bulls for Sale

I AM offering a splendid lot of young Scotch bulls for sale, sired by American Goods, a son of Imp. Choice Goods and Baron Kaur 3d. Strictly all right and prices reasonable.

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B. W. GREGORY, HARLAN, IA. Breeder of HEREFORD Cattle

I have a few choice young bulls for sale at private treaty. Write, or come and see me.

SHORT-HORN CATTLE.

We Want Registered Bulls

SHORT-HORN, HEREFORD, GALLOWAY and ANGUS cattle sold on commission. We need bulls at once to fill our orders. Write us immediately and consign your bulls to us at once. Address A. J. BRUGGIER & SON, SOUTH OMAHA, NEBRASKA.

Choice Short-horns at Bargain Prices

CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fame 197990, and bred to my Crutcher's Flora bull, Narcissus King 239586. One extra good bull 16 months old by Royal Fame; 4 younger bulls, mostly by Narcissus King. A choice lot to select from at bargain prices; singly or car load. Address R. J. COX, GRINNELL, IOWA.

WAYSIDE FARM
SHORT-HORNS

TALK NO. 2

The bull offering for my sale, February 17, 1910, has been inspected by Mr. Dante M. Pierce, of The Homestead; Mr. F. D. Tomson, of the Gazette, and Mr. Bently, of Wallace's Farmer; Mr. Frank Dunham and M. D. Clark, Short-horn breeders and showmen, and they all have said it is the best offering of bulls of one man's breeding in one sale in Iowa in recent years. Write to me. I have time to tell you all about them. It will pay you big to inspect this bull offering. I am not closing out. I have the sires and dams of these bulls. Your future success depends on the bull you buy. Five generations of prize winners will get you results.

G. H. BURGE
MT. VERNON, IOWA.

WHITE BROS.
CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

35 SCOTCH
SHORT-HORN BULLS

FOR SALE—From one to two years old, of the blocky, beefy type; head leaders also. 25 heifers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address L. BARR & SON, DAVENPORT, IOWA.

Phillip Funke, Greenfield, Ia.
BREEDER OF

Scotch and Scotch-Topped Short-horns
I am offering a splendid lot of Scotch bulls for sale of Orange Blossom, Dainty Dame, Fleur de Lis, Mina and Strowan Buttercup tribes. I am pricing these bulls right. Write or come and see me.

S. H. THOMPSON'S SONS
IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

Two Fine Yearling Scotch-Topped Short-horn Bulls
ONE Polled Durham; all reds; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live-and-let-live prices. R. M. Young, Cook, Johnson Co., Nebraska.

SCOTCH BULLS
I have for sale several richly bred and splendid individual bulls, reds and roans. The herd is headed by the Scotch bulls, Kingmaster and Chaire Prince. Nine straight Scotch bulls, two Scotch topped, now ready for service. Farm additions town. Address G. H. GEORGE - MONTICELLO, IOWA

BATES BULLS

SOME choice Short horn bulls of the most fashionable Bates breeding, fit for herd leaders. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

CHAS. C. NORTON, CORNING, IOWA,
HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Plain View Stock Farm

6 GOOD, all red, Scotch Top Short horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address GEO. A. HANS, NEWTON, IOWA.

When writing to advertisers please mention this paper.

Wildwood Scotch and Scotch-Topped
SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Brawith Lad. For description and prices, address W. W. VAUGHN, MARION, IOWA.

GEO. H. WHITE, EMERSON, IOWA,
Breeder of High-Class Short-horns.
HERD headed by Hampton's Chancellor and The Dreamer. I have a number of very choice young bulls for sale. Address
GEO. H. WHITE, EMERSON, IOWA.

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DO YOU WANT FRONT ROW?

WE are representing Jack Breeders' Association. They are guaranteed in every way; 14 to 16 hands high, 3 to 7 years old; black, with white points. We represent 100 jacks of the best. Can save you \$300 to \$500 buying from breeders direct.

C. L. MOORE,
Bowling Green, Missouri.

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Percheron Mares

At prices less than the cost of production. All acclimated and bred. Do not miss this opportunity to secure the best. None reserved.
Holland Stock Farm, Springfield, Missouri.
The largest importers and breeders in the Southwest.

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.

HORSES
PERCHERONS,
Belgians, German Coachers
AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

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IMPORTED and American-bred Belgian mares, safe in foal by a reserve champion stallion at the Iowa State Fair. They are good ones, none over 4 years old, broken to harness, and in an ideal breeding condition. Also some mares not yet of breeding age. Among them are some that have been winners at the Iowa State Fair. Write for prices or come and see them. Address CHAS. IRVINE, ANKENY, IOWA.

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.
Imported mares; home-bred stallions, \$250 to \$650 each.
A. Latimer Wilson, Creston, Iowa.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address GEORGE W. BILBO, CRESTON, IOWA.

IMPORTED Percheron and Belgian stallions and mares. Third importation arrived January 13th. The best that money and experience can buy. Strictly the kind that neighbors will not make fun of your horse and price after you get home. Correspondence and inspection invited. Jos. Rousseau & Son, Seward, Neb. Barn 1/2 mi. north courthouse.

Public Sale, February 11, 1910

OF 25 high-grade draft mares and geldings, 16 head of pure-bred cattle, Short-horns, six bulls, 10 cows and heifers. Sale will be at farm. Hogs are all sold. Address W. J. Luther, Oril, Neb.

For Sale--Grade Shire Stallion

SIX YEARS OLD. Good bone and breeding. Priced reasonable and guaranteed right. Address JOHN KROGMAN, R. 1, LYONS, IOWA.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

Shetland Ponies The cream of Scotland; any kind you want; we sell them reasonable. CLARKE BROS., Anburn, Neb.

FOR SALE—RECORDED ENGLISH SHIRE STALLION. Address G. TOINEY, LAWLER, IOWA.

When writing please mention this paper.

HORSES AND JACKS.

HOMEWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron, Belgian and Shire
STALLIONS AND MARES

SIXTY head of stallions arrived August 10th. 40 head of Percheron mares arrived on Nov. 5th. We also have a choice selection of American-bred Percheron mares, fillies and stud colts. If in the market for a first-class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. Our motto: Prices right, terms to suit, satisfaction guaranteed. No misrepresentations or disappointment on arrival. Write our home bank for reference. Homewood is on the main line Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly from the city. Bell 'phone Homewood 204.

Don't fail to see our exhibit of 60 head at the coming International.
S. METZ & SONS, HOMEWOOD, ILLINOIS.

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,500, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.



HART BROS., OSCEOLA, IA.

DUNHAM'S
PERCHERONS

Next large importation, stallions and mares, Feb. 10th, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses—horses with bone, quality, size, action and best breeding, stallions or mares; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit
OAK LAWN
Catalog shows the place and the horses.
W. S., J. B. & B. Dunham, Wayne, Ill.

PERCHERON MARES
BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.
C. G. GOOD,
Ogden, Iowa.

PERCHERONS AND BELGIANS

THE NEW WAY "ONE PRICE."
THE ONLY WAY "THE SQUARE WAY."
Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.
W. J. BUTLER, OTTAWA, ILLINOIS.
Long Distance Phone.

Percheron and Belgian
STALLIONS and Mares

Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot: 1/2 mile north of C. M. & St. P. R. R. depot.
E. H. KNUICKERBOCKER & Son, Fairfax, Iowa.

Percherons for Sale

Fifty head of imported and home-bred mares, two to six years old, bred to the best sires. Ten head of stallions, one to three years old. They are the right kind and priced right. Come and see and you will buy.

WELCH & PECK, LEXINGTON, ILL.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14 1/2 to 16 hands. Everything guaranteed as represented. Est. 1892.
J. C. HUCKSTEP, Prop.,
EOLIA, MO. Pike Co.

SHIRES, Percherons and Belgians! Best imported Shires, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

Reserved Champions

PERCHERONS
AND BELGIANS

2 IMPORTATIONS, 1909, 2

DO you want a first-class stallion or mare? Sound, big bone, size, wide back, true action. PRICES LOWEST. TERMS MOST LIBERAL—GUARANTEE GENUINE. Come and see for yourself GOODS that are a pleasure to show. Trains nearly every hour any direction. Interurban from Davenport, Iowa. Stables in town. For further information, write us.

CHAMPLIN BROS., CLINTON, IA.

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON,
BATAVIA, IOWA.

CHESNUT STUD FARM
PERCHERON
STALLIONS AND MARES

TEN head of stallions and mares for sale, ranging from 2 to 5 years of age. Home-bred horses, \$500 to \$1,000. Write, or come and see me. Address

L. C. BARNETT, INDIANOLA, IOWA.

FRANK L. STREAM,
Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

Percherons and Belgians

I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.

CLYDESDALE and PERCHERON
STALLIONS and MARES

20 HEAD imported Clydesdale and Percheron stallions and mares for sale. High-class horses at farmers' prices. Will sell teams of mares, fillies or two and three-year-olds. Horses handled right on my farm. Can save you middlemen's commissions. Address

R. O. MILLER - LUCAS, IOWA.

Large Heavy Boned
Mammoth Jacks

FOR SALE: from 15 to 16 hands high, for \$350 and upwards. Farm located 8 miles west of Cedar Rapids

JOHN HENRY
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FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. 1/2 ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

HORSES.

FRANK IAM'S'

new importation of draft stallions and mares arrived September 20, 1909, by "Iams' own special train" of "ten express cars." They are "business propositions," that "jar the cherries" on a "wide-awake" "horseman's hat." Iams' "Peaches and Cream" stallions and mares are "eye-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. Iams makes buyers

"SIT UP AND TAKE NOTICE"

"Ikey Boys" get into Iams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 27 years' successful business. He bought and sells better horses cheaper than ever. Mamma, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at Iams. Iams has

200=PERCHERONS AND BELGIANS=200



two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "toppers" at \$1,000 and \$1,400 (few higher), mares \$700 to \$1,000, so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000 SAVED AT IAM'S \$1,000

Ikey, what "a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no stallion salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams' competitors "holler." He is knocking "high prices" out of the Xmas tree. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His \$1,200 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by one-half million dollars.

Write for Million Dollar Horse Catalog, Greatest on Earth

REFERENCES—ST. PAUL STATE BANK AND CITIZENS' NATIONAL BANK,

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PERCHERON, BELGIAN and SHIRE STALLIONS and MARES

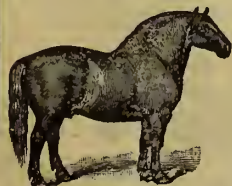


We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on

yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS



WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

FORD & HARRINGTON, PARKER, SOUTH DAKOTA. FAIRBURY, ILLINOIS.

When Writing to Advertisers Please Mention This Paper

HORSES.

LAKEWOOD PERCHERON SALE

100 PERCHERON STALLIONS and Mares at Public Auction 100

SIOUX CITY, IOWA, TUESDAY and WEDNESDAY, FEB. 8-9, '10

THE greatest opportunity of the year to buy high-class Percheron stallions and mares. Sons and daughters of the World's Champion Sire, CALYPSO, many of these good enough to win in the strongest competition. **25 BIG-BONED STALLIONS READY**



CALYPSO.

FOR SERVICE. 10 selected yearling stallions. 50 splendid young mares in foal by CALYPSO and CARTILAGE, both INTERNATIONAL WINNERS. 15 choice yearling fillies. It should be remembered that Lakewood Farm has produced more PRIZE-WINNING PERCHERONS during the past five years than any other breeding establishment in the world. 30 PRIZES were awarded Lakewood Percherons at the recent INTERNATIONAL at Chicago, a

RECORD NEVER BEFORE EQUALED

If you want a stallion to head your stud, a team of high-class mares, an outstanding yearling stallion, or a pair of splendid fillies, do not miss this sale. Catalog on request.

H. G. McMillan & Sons, Rock Rapids, Iowa.

Col. F. M. Woods
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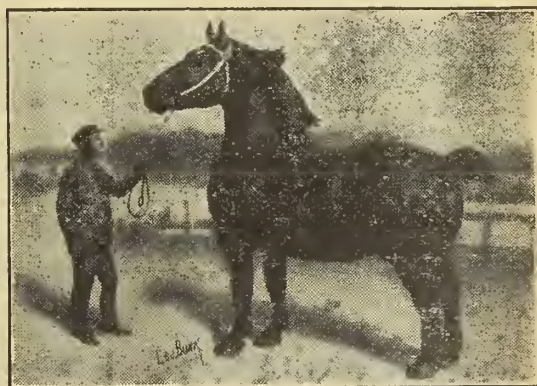
Col. P. McGuire
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AUCTIONEERS

PERCHERONS

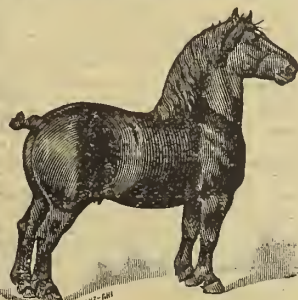
WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of this year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA. C.O. Keiser, Keota, Iowa

YOU ARE MISSING THE OPPORTUNITY OF A LIFETIME



If you do not send and get OUR NEW 1910 CATALOG before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909 and are all in prime condition to go out on the stand and do a big season's business. They are nearly all solid colors, range in age from 3 to 6 years, in weight from 1,700 to 2,300 pounds. They are the big-boned, blocky type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a Government bond. GET OUR CATALOG. It is free for the asking.

WATSON, WOODS BROS. & KELLY CO., LINCOLN - NEBRASKA.

HORSES.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

TWELFTH IMPORTATION SINCE AUGUST, 1908; ARRIVED NOVEMBER 14, 1909.

OUR WINNINGS AT 1909 INTERNATIONAL:

Grand Champion Shire Stallion.
Champion three-year-old and over Shire Stallion.
First, Second, Third, Fifth, aged Shire Stallion.
First, Fifth, three-year-old Shire Stallion.
Second, Fourth, two-year-old Shire Stallion.
First and Second, five best Shire Stallions.
Grand Champion Shire Mare.
Reserve Champion Shire Mare.
First, Second, Third, aged Shire Mare.
First, Second, Fifth, two-year-old Shire Mare.
First, Second, three best Shire Mares.

First, Shire Mare and Colt.
Gold Medal (English) Shire Stallion.
Gold Medal (English) Shire Mare.
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First, aged Hackney Stallion.
Champion Hackney Stallion.
Champion Stallion in Harness.
Champion Coach Stallion (all breeds competing).
Reserve Champion Hackney Mare.
First, aged Hackney Mare.
TEN SILVER CUPS.

50 IMPORTED SHIRE MARES FOR SALE. Address for catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.

IF YOU WANT TO BUY A STALLION

EITHER

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any banker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer.

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. For the asking. Address BOX 68.

Belgians and Percherons

Second importation for 1909, sixty head, arrived August 10th; third importation, thirty head, December 8th

120 STALLIONS AND MARES

Upon my farms; my four barns full. Eight miles west of Cedar Rapids; two railroads; electric car every hour.

SEND FOR NEW CATALOG

HENRY LEFEBURE, FAIRFAX, IOWA.



M. L. AYRES, SHENANDOAH, IOWA

Thirty Years a Breeder and Importer of

PERCHERON HORSES

A FINE selection of young two and three-year-old home-bred stallions for sale. The noted Brilliant bred stallion, BLANDE 36577, at head of stud. Anyone looking for a herd heading stallion will do well to patronize me. For bone, size and quality our stallions are unsurpassed. 125 to 150 head of horses on the place all the time. Come and see them or write for full particulars, mentioning The Homestead.

57 IMPORTED STALLIONS AND MARES

WITH PRACTICAL HORSEMEN a short statement of FACTS will have more weight than a whole page of MUSH. I have a stable full of SHIRES, first class in every respect. They combine WEIGHT, quality, good conformation and the best blood. Also WELSH MOUNTAIN PONIES of the highest type. I will sell them as low as legitimate business will permit. Write me for particulars.

Great Bargains in January and February.

GEO. E. BROWN, AURORA, ILL.

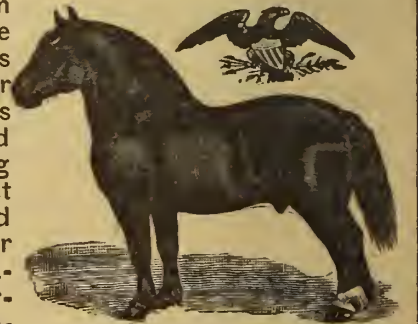
Aurora is 37 miles from Chicago by C. B. & Q., C. & N. W. and also by trolley; trains every hour. Also connected by trolley with Joliet, Geneva and De Kalb, and with Ottawa by the Fox River line.

THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October, one in November, another shipment arrived about the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

A CLYDESDALE SPECIALIST CATALOG

If you have or ever expect to own a Clydesdale, or if interested in this firm, send today. As, ultimately, you will want to come to the headquarters of the breed to buy, it will be your gain to come now.

OUR BOOK WILL SHOW YOU WHY

McLAY BROS., JANESVILLE, WISCONSIN.

New Importation of Percheron, Shire and Belgian Stallions

EXTR weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.

When Writing to Advertisers Please Mention This Paper

HORSES.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians. So we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners.

We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Percheron Stallions

WITH SIZE AND QUALITY

PLENTY of bone and good action. That's my specialty, and I can suit the man who wants a good stallion, as both the horses and my prices are right. **COME TO SEE THEM** and you'll buy, because you'll not be able to get better bargains anywhere else. I have a choice lot of stallions for sale now—home-bred and imported horses, carefully selected in France. Inspection especially asked. Notify me and I'll meet you at Ames. Farm 7 miles N. E. of Ames.

S. B. FREY, AMES, IOWA.



Ensign's PERCHERONS

OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write **S. A. ENSIGN, CLEGHORN, IOWA**
C. A. PINGEON, Sale Manager.



The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on **Imported Clydesdale Stallions and Mares**; also a few choice bred hackneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U.S. Our show yard record will convince you that **we have the goods**. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C. R. I. & P. Railway, forty miles northwest of Peoria, Illinois.



REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.**

CLYDESDALE MARES

I HAVE just received from Graham Bros., Claremont, Ontario, Canada, America's foremost importers and breeders of Clydesdales, two car loads of very choice, young, registered brood mares, imported and Canadian bred, with much size and quality and of good ages, all bred and many now showing heavy in foal. To move them quickly I am making very attractive prices on a limited number of these good mares. It will pay any intending purchaser of one or more registered mares to see them before buying.

LEN H. LAMAR - - STORM LAKE, IOWA.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

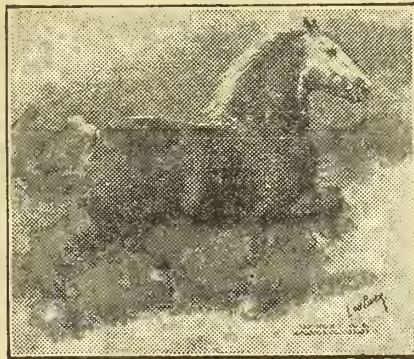
We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



Shires, Clydes, Belgians, German Coachers

OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing these where every farmer can buy. Come and see us. Address **Luben Harrison & Son, Prescott, Iowa**

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality. Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C. B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

Maasdam & Wheeler

Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1909 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

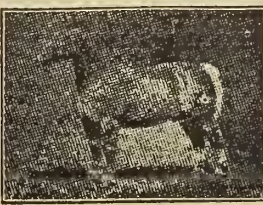
WM. CROWNOVER, HUDSON, IOWA.



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 15th. **Ernest L. Humbert & Son, Corning, Ia.**



THE GREAT OHIO DUROC JERSEY BRED SOW SALE CIRCUIT

350

OF THE BEST SOWS EVER SOLD IN ONE WEEK BY ANY SALE
CIRCUIT. FROM THE HERDS THAT HAVE PRODUCED MORE
WINNERS THAN ANY LIKE NUMBER OF HERDS IN AMERICA

350

60 HEAD BRED SOWS 60 —AND GILTS—

TO BE SOLD ON

Monday, February 7, 1910
Yellow Springs, Ohio

20 by Kelly's Pilot Wonder, 7 by Col. S., 1 Red Wonder, 1 King of Cols., 2 Prince Wonder, 2 Orion Chief, 2 Cherry Chief, 2 Chief's Col., 1 Macon Chief, 2 Golden Rule, 1 by Kansas Col. Others of equal breeding. The choicest bunch we ever offered. Twelve bred to Col. S., 20 to Kelly's Pilot Wonder, the rest to Royal Heir by King of Cols., Gold Bond and Advancer II. Sale at Whitehall Farm. Cols. H. L. Igleheart, Fred Reppert and assistants, auctioneers, Carlos C. Palmer, Homestead field man. Write for catalog to

WHITEHALL FARM, YELLOW SPRINGS, O.
J. E. DRAKE, MANAGER

60 HEAD BRED SOWS 60 —AND GILTS—

TO BE SOLD ON

Tuesday, February 8, 1910
At Dayton, Ohio, Fair Grounds

Two by Carl's Col., 6 by W. & F.'s Proud Advance, 10 by Golden Rule, 10 by High Model. 1st and 3d prize junior yearlings at Ohio State Fair go in this sale. One by Tippy's Col., 13 by Good E Nuff, 3 by Golden Rule, full sisters to Choice Rule, 4 by Our Pal by King's Pal. These will be bred to High Model, Good E Nuff, Choice Rule, Nugget, 1st and junior champion Ohio, and Col. Ira de Jack by Tippy's Col. Sale at Dayton Fair Grounds. Col. H. L. Igleheart and assistants, auctioneers. Carlos C. Palmer, Homestead field man. Write for catalog to

WATT & FOUST, CEDARVILLE or XENIA, O.

65 HEAD BRED SOWS 65 —AND GILTS—

TO BE SOLD ON

Wednesday, February 9, 1910
Tippecanoe City, Ohio

One by Tippy's Col., 2d at Springfield, 1909, best fall sow I ever raised; 3 fall sows by Cherry Chief, 3 by King of Cols., 2 by Prince Wonder, 2 by Muncie Chief, 1 B. & C.'s Col., 5 Orion Chief yearlings, 3 by John's Ohio Chief, 1 by Hartford's Prince of Cols., 1 by Model Top, 1 by Tippy's Col., 3 by Red Wonder, 2 by Joe Orion. These are bred to Tippy's Col., Cherry King and Joe Orion. Sale at farm near Tippecanoe City. Col. H. L. Igleheart and assistants, auctioneers. Carlos C. Palmer, Homestead field man.

IRA JACKSON, TIPPECANOE CITY, OHIO

50 HEAD BRED SOWS 50 —AND GILTS—

TO BE SOLD ON

Thursday, February 10, 1910
At Dayton, Ohio, Fair Grounds

Six sows by King of Cols., 8 by Premier Col., 5 by King De Col., and others by H. L.'s Chief, The Chief, Cherry Chief, Stewart's Col., High Model, High Notcher and others. They consist of 5 aged sows, 9 yearlings and 38 spring gilts; 15 are bred to Premier Col., the balance to S. E.'s Model Top, Stewart's Col., H. L.'s Chief, King De Col. and High Model Jr. Col. H. L. Igleheart and assistants, auctioneers. Carlos C. Palmer, Homestead field man. Write for catalog to

S. E. MORTON & CO., DAYTON, OHIO

55 HEAD CHOICE SOWS 55 —AND GILTS—

TO BE SOLD ON

Friday, February 11, 1910
Osborn, Ohio

One by Cherry Chief out of King of Cols., dam a cracker-jack bred to Kelly's Pilot Wonder, 4 by Grand Success, 7 by Chief to Be, 10 by Kruger's Corrector, 1 by Orion Model, 2 by John's Ohio Chief, 10 by Whitehall Wonder, 1 by C. D.'s Col. by Prince of Cols. These are bred to their great show boars, The Chief Col. by Cherry Chief, Kruger's Surprise, Chief to Be, Whitehall Wonder and Fancy Col. Sale at farm at Osborn. Col. Igleheart and assistants, auctioneers. Carlos C. Palmer, Homestead field man. Write for catalog to

MAHAN BROTHERS, OSBORN, OHIO

60 HEAD BRED SOWS 60 —AND GILTS—

TO BE SOLD ON

Saturday, February 12, 1910
Middlepoint, Ohio

12 yearlings and 48 gilts. Sows are by High King, C. & R. Col., Corrector Echo, Richland Col., Prince of Cols., Muncie Chief, King of Cols., High Notcher, Prince Wonder, Prince Model, Notcher Top, Lincoln Top and others of good breeding. They are bred to High King, Richland Col., C. & R. Col., Prince Orion, J. C. Col., Corrector Echo. Bred for March and April farrow. Our motto: "The best is none too good." Sale at farm, near Middlepoint. Cols. Fred Reppert and H. L. Igleheart, auctioneers. Carlos C. Palmer, Homestead field man. Write for catalog to

E. C. STEMEN & SON, MIDDLEPOINT, OHIO

Free entertainment at Phillips' House, Dayton, Ohio, for the entire week's sales. Bids for any of these sales sent to Carlos C. Palmer, Homestead representative, in care of Phillips' House, Dayton, Ohio, will be carefully handled. Send to each of the above breeders for a copy of his catalog, kindly mentioning Homestead.

CROW'S POLAND CHINAS

AT AUCTION AT
Maclay, Iowa, February 2, '10
SIXTY HEAD

Consisting of tried sows, fall yearlings and spring gilts, all of the Crow type of Poland Chinas. They have more quality than any big hog in America. Why not own a big, easy feeder? You can get it at the sale. All the world is waiting for the fellow who will breed to perfection a practical hog that grows as large as it is possible for a hog to grow, yet carries the finish of the smaller one. My hogs have stretch, bone, coat, color, head, ears, spring of rib, arched back, best of feet, and are large by inheritance. This is the best offering combining size and quality, all bred by one person, the world ever saw in one sale. This we guarantee to show. They are bred to boars that have proven to be great sires. They are bigger, better than ever. Send for catalog and let me show you. Sale at Maclay, Iowa, February 2d. Cols. W. R. Ritchie, of Marathon, Iowa; James Henson, of Newell, Iowa; Bert Bowman, of Spencer, Iowa, auctioneers. T. T. Parker, field man.

W. J. CROW, WEBB, IOWA.

Attention is called to E. Gritters' Poland China sale at Hull, Iowa, February 1st, and C. L. Thurer's, at Postoria, Iowa, February 3d. Try to attend all three sales.

JEFFERIES' POLAND CHINAS and DUROCS

AT AUCTION ON FRIDAY, FEBRUARY 4, 1910

WE WILL SELL AT OUR FARM, SIX MILES EAST OF ROCK RAPIDS,
FORTY HEAD BRED SOWS AND GILTS

Consisting of 20 Poland Chinas and 20 Durocs. In the Poland China offering the fall yearlings are sired by Grand Expansion. Gilts are by Tecumseh's Dude by Doris Tecumseh and Midwood Perfection by Winning Perfection. They are bred to Demonstrator by Rusticator, he by Corrected Chief. The Durocs are sired by Maxwell Orion, he by Manley's Orion, and are bred to E. E. Model by Bems Kruger. We will also sell four grade Shires coming two years old, one filly and three geldings; one registered Shire stallion, three years old, and two Short-horn cows. Free accommodations from Rock Rapids to the farm, and free hotel accommodations at Rock Rapids for visitors. J. A. Benson, auctioneer. For catalog write

R. A. JEFFERIES & SONS, ROCK RAPIDS, IA.

POLAND CHINA SWINE.



WELLMAN HERD OF POLAND CHINA HOGS AND SHORT-HORN CATTLE.

25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd headers a specialty. 10 head of choice young bulls, 8 to 15 months old; all deep reds; sired by Masterlode 265763, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address
C. F. SHAFFER, R. R. 4, WELLMAN, IOWA.

FIFTY LARGE-TYPE, BIG-BONED BRED SOWS 25 EXTRA GOOD BOARS

TRIED sows, fall yearlings and spring gilts, sired by P. W. Giant, Hadley, Jumbo and Long King. Bred for March, April and May farrow to Hadley, Jumbo and Victor. Last named boar sired by Big Victor, second aged boar at Lincoln, 1909. They are smooth and well grown and in fine condition. Sold 900 head in seven years; shipped to eight states, many on mail order, with perfect satisfaction to buyers. Can furnish testimonials from all buyers. My herd boars are the tops of the best herds of the big type. Farm 1 1/2 miles north of town. Pedigrees time of sale. Write name and address plainly to
F. W. MCINTYRE, Route 5, RED OAK, IOWA.

Miller's Tecumseh 117017

1,000-Pound Boar heads my herd. I have a grand good lot of spring boars sired by him, also by Major Hadley and Multiplier. If you want the big type, big boned, stretchy fellows, write me or come and inspect my herd. Address **H. PRITCHARD, WISNER, NEB.**

50 Big-Type, Big-Boned Bred Sows

WE are offering 50 head of extra fine, big-type, big-boned, quality kind. These are sired by our invincible trio of big boars, viz.—W.'s Major, 45237, Young Look 47722, Pawnee Price 47721, and bred to above-named boars and a grandson of Grand Look and Expansion. Twenty-one sows farrowed 210 pigs in 1909. For size, quality and prolificacy, these cannot be beaten. Guaranteed as described. Priced right. Call or write.
WILLIAMS BROS., Route 3, VILLISCA, IOWA.

Sixty Poland China Bred Sows

FIVE sired by Impudence, 4 by Keepsake, 15 by Importance, 15 by Kemp's Leader, 2 by Keep Ahead and others. Sows are bred to Importance, Reflector, King Wonder, Reflector 11, and Mastodon 111. 15 spring boars for sale, sired by Kemp's Leader, Reflector and Importance. Oliver Whiteman, Biggsville, Ill.

PODENDORF'S BIG-TYPE

Poland China Bred Sows
I AM offering a splendid lot of strictly big-type, with quality combined, Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.
A. J. PODENDORF, LOGAN, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thicket 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton.
HELD BROS., HINTON, IOWA.

OAKSIDE HERD of "Monster Pattern" POLAND CHINAS

HERD headed by Monster Pattern (weight 360 pounds at seven and one-half months old, 800 pounds yearling, eleven-inch bone). Oakside Chief (760 pounds yearling, 900 pounds at maturity). Herd sows large and prolific. Open and bred sows for sale at very close prices. Ask for catalog and get posted. There is a "tip" in it to every prospective buyer. Direct shipping facilities. Address
A. S. JUCKETT & SON, Oakside Farm, Route 2, Fremont, Nebraska.

BIG VICTOR SOW SALE FEBRUARY 4

I WILL sell 45 head of big-boned, big-type Poland China sows in my February 4th sale, bred to Big Victor, Guy's Price 2d and Big Tom. Write me early for catalog. Address, mentioning this paper, **D. C. LONERGAN, FLORENCE, NEB.**

POLAND CHINAS

FORTY BRED SOWS—BIG TYPE
BIG-TYPE Poland with big-type blood lines sired by Napoleon Chief 84189 and bred to Corn Belt Expansion 153155 for March and April farrow. Write for prices and des. **C. K. HANSON, NASHUA, IA.**

FOR SALE 6 Tried Sows

BRED to large-type boars, Maid's Longfellow and B King Leader. 20 fall pigs, either sex, for sale at \$18 to \$20. Sired by Maid's Longfellow and Choice Chief Price. Address
H. W. MILLER, R. 2, Peterson, Iowa.

Poland China Bred Sows

MATURED sows, fall yearlings and spring gilts, with both size and quality, and carrying as good strains of blood as the breed affords. In good thrift. Bred to Alderman 151019 (second at Iowa State Fair) or J. H.'s Hadley. Low price and high quality.
J. H. WATSON, MADRID, IOWA.

When writing to advertisers please mention this paper

THE GREAT

ORION CHIEF

A WORLD'S FAIR WINNER and sire of more WINNERS than any other Duroc boar

HIGH CHIEF

A WORLD'S FAIR WINNER and the best BREEDING son of OHIO CHIEF

50 SOWS BRED TO THESE GRAND BOARS WILL BE SOLD Thursday, February 3, 1910

at Oakland Farm near COLUMBUS, OHIO

25 Sows Bred to Orion Chief, 25 Sows Bred to High Chief, 3 Sows Bred to Colonel Chief by Prince of Colonels

THIS will be a grand offering of sows, in fact, no better will be sold this season, and being bred to two of the grandest boars of the breed makes them valuable to breeders. The following are sires of the sows:—12 sired by Orion Chief and bred to High Chief. Others by Col. Gladness, Grand Success, Chief Orion, Tippy's Col., Carl's Col., Red Corrector, Oakland King, Col. King, Rich Creek King, Oak King, Chief Success, Gold Bond, Commodore, Wilda's Col., Model Top and others. Auctioneers—Cols. Tom Vinnedge, Columbus, Indiana; H. L. Igleheart, Nolin, Kentucky, and Fred Repert, Decatur, Indiana. Send bids to Carlos C. Palmer, Homestead representative, in my care. Write for catalog.

TOM JOHNSON & SONS, COLUMBUS, OHIO.

BERKSHIRE SWINE.

PRINE FARM BERKSHIRES

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address
George S. Prine, Oskaloosa, Iowa.

PREMIER BELLE'S DUKE

Is the sire of many of the offering to be sold at public sale February 21, 1910. They are bred to Baron Duke 154th by Baron Premier 40th. Write for catalog.

J. W. OGLE, AMES, IOWA.

HOLT'S PRIZE-WINNING BERKSHIRES

THE records of leading state fairs show the superiority of my stock. Am pricing the tops of my boar crop by Matchless Premier and Governor, by a son of Imp. Lord Minting. Write for prices. Bred sow sale in February. **W. R. HOIT, Falls City, Neb.**

Choice Berkshires for Sale

LUSTRE'S Combination J. 2d, prize boar at Iowa State Fair, and gilts sired by him, open or bred; also two tried brood sows at reasonable prices
Orlando Jacobs - Mediapolis, Iowa.

HAMPSHIRE SWINE.

HAMPSHIRE SWINE

Stock of all ages for sale and of fashionable families. Write
GEO. LIPPERT, Magnolia, Illinois



We Have for Sale

Spring boars ready for service, sows either bred or open, young pigs in pairs or trios no kin, a fine bunch of gilts either bred for spring or open; prices reasonable. Write us before you buy.
L. C. MILLER & SON, R. 2, Canton, Illinois.

When writing to advertisers please mention this paper.

POLAND CHINA SOW SALE

ON FARM AT

LAKE CITY, IOWA,

FEBRUARY 3, 1910

Eight matured sows by Winning Perfection, Monarch Chief, Chief of Rio Vista, Fancy Perfection and Chief Tecumseh 1th. Sixteen fall sows by Monarch Chief. Eighteen spring gilts by Long Hadley. They are bred to Long Hadley or Peerless Chief. This consignment shows both size and quality, and carries more of the blood of Chief Tecumseh 3d than will go into any sale of the year. Several show sows will be sold. Send for catalog. **W. C. Lookingbill, auctioneer.**

John H. Fitch, Lake City, Ia.

POLAND CHINA SWINE.

SELECT BRED SOW SALE FEBRUARY 10, 1910.

BIG-TYPE Poland, with big-type blood lines. 20 tried sows, the largest and most noted of the breed. 40 big gilts, the progeny of the largest Poland boars and sows in the world. Bred to boars of equal merit, such as Big Ex., the 1,070-pound son of Pawnee Chief; Chief Price, the 800-pound yearling; Superior Look, the most noted son of Long Look. Send your address early for the catalog.
W. H. COOPER - HEDRICK, IOWA.

ELLERBROEK'S POLAND CHINAS

50 Bred spring and fall gilts of the large-boned, lengthy type. These gilts are bred to Giant 2d 151933, A Wonder 143421, Big Bone 2d 151743. Their sires are A Wonder Next 149557, A Wonder 143421, Long Price 2d 146679, and others. Their dams are by Chief Price, Longfellow 3d, A Wonder 107353, etc. Come and see my stock or let me know your wants. Farm adjoining 3 railroads, 2 blocks from depot.
PETER ELLERBROEK, SHELDON, IOWA

Poland China Bred Sows

WE have for sale some choice, tried, aged sows, bred for March and April farrow; also 25 growthy last March gilts, sired by several different herd boars, bred for March farrow. Write for description and prices. **Bridgford & Nesbitt, R. 3, Alledo, Ill.**

20 Head of Bred Gilts

OF the big type, bred to Big Price 154369, one of the good big ones. A Chief Price bred hog, with size and quality galore. Prices right.
SCHAIN & KEEP, ATLANTIC, IOWA.

JOHN H. TRYON & SON'S

DUROC JERSEY BROOD SOW SALE

BANCROFT, NEB., TUESDAY, FEBRUARY 1, 1910

40 HEAD 25 Yearling and Aged Sows 40

Fifteen Gilts

WE are selling one good Proud Advance sow, considered the second best sow sold in the R. J. Harding sale, bred to Gold-dust Col.; 2 daughters of Farmer Burns; also daughters of Junior Jim, Dreadnaught, Ideal Critic, Tryon's King Orion, and a grand lot of granddaughters of Ohio Chief. We are selling the best blood known to the breed. Write for our catalog at once. Address

JOHN H. TRYON & SON, LYONS, NEBRASKA.
Col. F. F. Luther, Auot. M. T. White, Field Man for Homestead.

THE GREATEST PUBLIC SALE OF

COL. BRED SOWS OF THE YEAR

THE CREAM OF THE DUROC JERSEY BREED WILL BE OFFERED AT SHADELAND STOCK FARM

KINGSLEY, IOWA, THURSDAY, FEBRUARY 3, 1910


40 Head of the Best Sows Ever Sold in the West

Fifteen choicely-bred sows are bred to Carl's Col., the "grandpa" of the cham-pion Cols. Ten head are bred to Col. Scott, champion Indiana State Fair, 1907. Col. Scott is a full brother to Prince of Cols. and Col. Gladness. Five head are bred to Shadeland Col. by Prince of Cols II, by Prince of Cols., dam by Fogg's Col. About twenty choice sows and gilts are by King of Cols., Ed's Col., Prince of Cols., Fogg's Col. and G's Col. Others are by Ohio Chief, Proud Advance, Tientsin, John's Ohio Chief, King Solomon, Achiever, Prince Wonder, American's Royal, Inventor, Prince Malcom and others. Some of these good sows are bred to Iowa Notcher; others to Major. This is one of the greatest offerings of Col. stuff to be sold this year and is top stuff, besides the other good ones. Edmonds, Shade & Co. aim to make this the greatest offering ever sold at Shadeland Farm. Write for catalog at once and mention The Homestead. Address

EDMONDS, SHADE & CO., KINGSLEY, IOWA.
Cols. Luther & Lyale, auctioneers. M. T. White, field man for Homestead.

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE


My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both cham-pionships. Nothing for sale at private treaty. 50 bred sows will be sold in my sale January 29, 1910. Write for catalog.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.

WAYSIDE HAMPSHIRE

WE bred the load of barrows that won first in class over all breeds at 1905 Interna-tional. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.

MIKE SHARP - - - - - COAL VALLEY, ILL.

STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, E. C. STONE, - - - - - ARMSTRONG, ILL.

25 Head of Spring Boars

5 Head of Yearling Boars

All good ones and guaranteed breeders.

Prices reasonable.

H. D. DeKALB - - - - - DeKALB, IOWA.

HAMPSHIRE GILTS

TEN good gilts with length and bone, bred to the best of boars, for March and April farrow, for sale worth the money. Address

WOOD & WESCOTT, SHEFFIELD, ILL.

CHESTER WHITE SWINE.

Iowa Herd of Improved Chester White Swine

40 Aged sows for sale, reasonable, sired by such noted boars as Monarch Jr., Jerry S., Captain, Col. Sutton, Chief Commander and Allright. These sows will be bred to White Rock and Christ-opher 1st; latter won first and champion, Iowa State Fair, 1908; first and champion, Nebraska and Illinois State Fairs, 1909. Also two aged boars and a number of spring males and gilts. If in need of anything in this line, write me today or visit my herd. I ship on approval; if not satisfied, no sale. Mention Homestead. Thos. F. Kent (Successor to Geo. H. Lawshe), R. 2, Walnut, Iowa.

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 2d 5465, champion Iowa State Fair, 1909, and Minnesota State Fair, 1908; and Modeler 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented.

W. F. HEMMERLING - - - - - DIKE, IOWA.

Mear's Chester Whites

4 fall boars and a great string of pigs by

NEPONSET ED. 16711

Are ready to ship any day. All are strictly high-class. Write or come.

E. L. MEAR, LAMAR, MO.

AMERICAN HERD OF IMPROVED CHESTER WHITES

Thirty choice spring gilts for sale, bred to Attractor 19289, a boar of extra length and bone, for March and April farrow. Call and inspect them or write for prices and descriptions.

ALDEN ANDERSON, RADCLIFFE, IOWA.

BROOD SOWS

Reserving nothing but the aged sows; will let go best stuff I have raised. Bred to such boars as Joker, that has won more premiums than any hog living or dead. A "Triumph" hog that sold for the largest price of any hog of the breed. Weighed at 19 months, 720 lbs., and two extra good young hogs. J. H. Mahannah, North English, Iowa.

Evergreen Herd Chester Whites

A CHOICE lot of gilts now on hand. The best I have ever raised. My prices are always reasonable. Write me at once. Address

W. H. DUNBAR - - - - - JEFFERSON, IOWA.

CHESTER swine.

Only 3 male pigs left for sale; 20 good gilts. Will not ship poor ones. Write for particulars, prices. H. F. Gustoff, R. 1, Coon Rapids, Ia.

When writing please mention this paper.

O. I. C. The World's BEST HOGS

Seventy-five boars from 100 to 200 pounds and fifty gilts, same weight, of leading prize-winning blood lines—big-boned, good footed and good backs. Bred sows and fall pigs—special proposition—under guarantee. Write me now. Address

I. M. FISHER, BOX H, HASTINGS, NEB.

25 FALL PIGS FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Aledo Belle and Delta Girl. These pigs will be priced worth the money.

E. L. NAGLE & SON, Deep River, Iowa.

CLOSING-OUT SALE

OF CHESTER WHITES ON FEB. 8, 1910.

Twenty-five sows bred for March and April farrow. Write for catalog.

M. J. DESMOND, WATERVILLE, IOWA.

I PAY EXPRESS

Bred gilts, popular breeding at moderate prices. Address

FRANK KEAN, MT. PLEASANT, IOWA.

CHESTER Whites.

Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa.

When writing please mention this paper.

CHESTER WHITE SWINE.

CHAMPION CHESTER WHITE SWINE

Write me for choice stock of either sex for breeding stock, and show stock, a specialty.

F. P. WHITE, NEW HAMPTON, IOWA.

SCARFF'S O. I. C.'s

AM offering a fine bunch of O. I. C. males and gilts with extra length and bone, sired by sweep-stakes boar, Norway Chief, and Ohio Chief. Prices \$20 and up. Write for descriptions.

J. T. SCARFF - - - - - SALEM, IOWA.

INTERNATIONAL HERD OF CHESTER WHITES

BOARS all sold. Have a fine lot of yearlings and gilts safe in pig to as good boars as money can buy. Anything you want sent on approval.

J. L. BARBER, R. 3, HARLAN, IOWA.

Crosier's Choice O. I. C.'s

AM offering the strongest lot of spring boars sired by Kerr Dixon and Kerr Solomon, and out of Kerr Garnett, White Oaks and other equally as well bred sows. Get price and description. Address

Chas. W. Crosier - - - - - Juniata, Nebraska.

Two Good Chester White Herd Boars for Sale

THESE are May yearlings, or will exchange one for another herd boar. Also fall boars and choice spring boars for sale. Prices reasonable.

S. J. Philson - - - - - Harlan, Iowa.

Vanderslice's Chester Whites

OUR show records stand unsurpassed. We have 20 gilts, March and April farrow, sired by All O. K. 12095 and Lincoln 12443 and bred to Tony Kerr. Get our price on your wants. 12 miles south-east of Lincoln. Vanderslice Bros., Cheney, Neb.

O. I. C. WHITES.

Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

MEHRING choice O. I. C., strong-boned, smooth, well-quartered gilts for sale; some fine Shropshire ewes; low price. H. C. Mehring, Manson, Ia.

DUROC JERSEY SWINE.

J. O. REECE & COMPANY

ELDORA, IOWA.

OFFER an excellent lot of spring boars at farmers' prices. Sired by Gold Bud, he by Golden Rule and Iowa Notcher, he by Top Notcher. Write for particulars and descriptions.

GOLDEN BEAUTY 51083

FOR sale at bargain price. Am entirely out of boars. Extra choice lot of gilts for sale, sired by Mayor Jr. Wonder, third prize senior boar, Iowa State Fair, 1907. Prices right. Address

H. W. Lineweaver, South English, Iowa.

J. D. Wright, West Liberty, Ia.

OFFERS spring pigs of either sex at bargain prices. Fashionable families. Individual ex-celence to suit discriminating buyers. Write for prices and descriptions or visit herd.

DUROC JERSEY BOARS FOR SALE

6 YEARLING and fall boars sired by Crim-son King, a son of Crimson Wonder; 30 spring boars sired by Lafollette, Model Prince, Crimson King and other boars. Prices reasonable. Address

E. B. RYAN - - - - - NEOLA, IOWA.

Crimson Wonder I Am

SIX winter boars by this great sire now ready to go out. All of them crackers. Three fall boars by American Crimson Wonder. Nothing but show yard quality to offer. U. G. Davidson, Scranton, Iowa.

Duroc Jersey Boars, \$25 Each

20 BIG-BONED fellows, sired by Col. Chief and a son of Russell's Critic. These are the pick of 150 head. \$20 while they last. Address

J. P. PETERSON, HERMAN, NEBRASKA.

Duroc Jersey Gilts

A FEW choice gilts of good breeding, out of mated sows, and bred to Royal Advance 81963, Royal King and Model Duke (son of Golden Model 2d). C. E. Longnecker, Maxwell, Iowa.

KEAN'S DUROC

Bred gilts, popular breeding at moderate prices. Address

FRANK KEAN, MT. PLEASANT, IOWA.

Deyoe Bros.,

Mason City, Iowa, breeders of Duroc Jerseys. Bred sows for sale. Ohio Chief and Advance strains; bred to a Col. boar.

Frontier

Duroc Jersey herd. Best breeding. Boars and sows of March farrow for sale at reasonable prices. Solon Eilmaker, Batavia, Ia.

DUROC JERSEY SWINE.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY.

Write Your Wants.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

Duroc Jersey and Shropshire Sheep Sale

81 Duroc Jerseys, 58 Shropshires, at my farm near Tippecanoe City, Ohio, February 5, 1910. 51 bred sows, 30 gilts and boars, 52 ewes, 6 rams, best of blood lines. Igle-heart and Reppert, Aucts. Write for catalog.

D. H. WARNER, TIPPECANOE CITY, OHIO.

DUROCS

WE are breeding a string of sows and gilts for our winter sale that you'll like. All the popular blood lines. "Always trying to better the best." Watch this space—we'll tell you more about it.

G. W. HUFF, MONDAMIN, IA.

Bred Sows for Sale

EXTRA good Duroc Jersey gilts of good strains of breeding, raised for size, and bred for early lit-ters to a son of W. L. A.'s Choice Goods. Will also sell my herd boar, Porter's King of Cols. Write for prices or come and see them.

J. C. PORTER - - - - - OGDEN, IOWA.

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Bauer 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows.

VON SEGGERN BROS., WISNER, NEB.

BEERMAN'S DUROCS

Have a nice lot of fall pigs ready to ship. Write for descriptions and prices.

Chas. Beerman, R. 5, Webster City, Iowa.

GOLDEN MODEL

heads herd, assisted by Ad-vancer 1st. Will sell 8 head Golden Model sows in the Olson Bros. sale at Woodward, Ia., Jan. 31st, bred to Advancer 1st. Five are litter sisters to my show herd of 1909, which won 11 ribbons at Iowa Iowa Interstate, Neb., Minn., Wis. State Fairs; 4 1st, 3 2d, 2 4th and 2 5th prizes. O. A. Olson, Madrid, Iowa.

25 DUROC JERSEY BRED SOWS FOR SALE

SURED by King Solomon II., Advancer's Choice; 5 others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once.

Address A. Lentz & Son, Pierson, Iowa.

GOLDEN MODEL

HEADS herd, assisted by Advancer 1st. Have some great sows and gilts bred to Golden Model for early farrow. Public sale February 1, 1910.

W. R. BENNETHUM - - - - - MADRID, IOWA.

For Sale—My Duroc Herd Boar

Ruberta Belle's Wonder 81351; also a few of his pigs. L. L. WOODS, GRINNELL, IOWA

Speirs' Durocs

Bred sows for sale; Ohio Junior 38521, Silver King, Red Eagle, Dandy Boy boars in service. G. W. Speirs, Hedrick, Ia.

MIDLAND Durocs

8 gilts and 2 sows, bred for April farrow, for sale. The big-boned, growthy kind at moderate prices. S. J. Butts, Mason City, Ia.

Pleasant

Lawn Duroc Jersey gilts, safe in pig for March and April farrow; good bone and good color. Frank Warway, Mt. Pleasant, Iowa.

BRED sows for sale; safe in pig by Crim-son Ram-bler, Model Chief 9th and Crimson King. Prices reasonable; sows guaranteed. Jno. Justice, Ankeny, Ia.

GOLDEN MODEL SALE CIRCUIT

Monday, January 31

**Sale in Heated Pavilion
Woodward, Iowa**

**35 HEAD OF
RICHLY BRED SOWS**

TOPS from the noted herds of Messrs. Olson Bros., Woodward, Iowa, and O. A. Olson, Madrid, Iowa, make up this offering. Practically the entire offering are bred to GOLDEN MODEL, sire of the grand champions, GOLDEN MODEL II. and MODEL TOP. Write for catalog, mentioning The Homestead, to

**OLSON BROS.,
WOODWARD, IOWA.**

Aucts.—Cols. H. S. Duncan, C. E. Luther.

Tuesday, February 1

at Madrid, Iowa.

**35 HEAD
TOPS OF MY HERD**

TWELVE yearlings and aged sows, twenty-three spring gilts. Daughters of Advancer, Keep On III., Golden Model, Red Chief, Model Again, Prince Wonder, Model Chief II., Advancer 1st, Kant Improver are included. They are bred to GOLDEN MODEL and ADVANCER 1st. Write for catalog, mentioning The Homestead, to

**W. R. Bennethum,
Madrid, Iowa.**

Aucts.—Cols. H. S. Duncan, C. E. Luther.

Wednesday, Feb'y 2

At Ankeny, Iowa.

Sale in Heated Pavilion

**35 HEAD OF
Choicely Bred Sows**

TEN yearling and aged sows, twenty-five gilts. Daughters of Tientsin; Keep On II., Nebraska Belle's Ohio Chief, I Am Advance, MODEL CHIEF, Model Jim, Ohio Crimson, Advancer Chief, Model Chief VIII., Sells' Crimson Wonder, Notcher Jr. and Ankeny Chief. They are bred to GOLDEN COLONEL (by Chief's Colonel) and NOTCHER JR. Write for catalog, mentioning The Homestead, to

**F. B. Butterfield,
Ankeny, Iowa.**

Aucts.—Cols. H. S. Duncan, Chas. Howard

SEND BIDS TO DANTE M. PIERCE, HOMESTEAD REPRESENTATIVE, IN CARE OF ABOVE.

DUROC JERSEY SWINE.

Chapin & Nordstrum's Durocs

LITTERS by King of Cols. II, G. C.'s Col., G. C.'s Kansas Col. and Kelley's Pilot Wonder. Dams by Model Chief Again, C. E.'s Col. 2d, W. L. A.'s Choice Goods, Morton's Decree, etc. Three yearling and 3 fall boars for sale; good ones. Also some bred gilts for fall litters. Chapin & Nordstrum, Green, Kansas.

High-Class Duroc Jersey Boars for Sale

I HAVE two litters by my great State Fair winner, Guthrie Chief, out of Belle Advance by Advance. Also two litters by Ohio Chief I Am out of a Tip Top Chief and a Guthrie Chief sow. Also some splendid Chief Col. boars, as well as others by other noted sows. These are good and I am pricing them right. S. L. HOPPER

NEOLA, IOWA.

Elder's Durocs

KING OF COLS II, G. C.'s COL. and 30 of Grant Chapin's best brood sows were purchased and from these I have 125 choice spring pigs. Herd boars and choice breeding sows will be my specialty. Write your wants.

FRANK ELDER, GREEN, KANSAS.

REEDS' Duroc Jerseys

BOARS all sold. We now offer high-class bred sows, 2 sired by Model Chief 94969 and Advancer 28773, and bred to such noted boars as Model Chief 44969, Advancer 28773, the grand champion, Model Chief 2d 53753, and White Hall King 15977.

C. W. & WM. REED, ROSE HILL, IOWA.

Bargains in Bred Sows

SPRING, \$25; fall yearlings, \$30; old sows, \$35 to \$50. Our herd contains the blood of Tip Top Notcher, Crimson Wonder Again, Top Notcher Again, Proud Advance, Orion, Educator and other noted sires. Our sows are noted for producing large litters of strong, vigorous pigs. A few good spring boars left at \$20 each.

WOODLAWN FARM, STERLING, ILL.

Junior Yearling Show Prospects

WE are offering for sale two junior yearling boars that are show prospects. One by Col. Gladness, and one by The King. Write us if in need of a show boar or a breeding boar.

J. A. Shelton & Son, Manilla, Ind.

DUROC JERSEY SPRING PIGS

SURED by King Orion, Wonder Boy, Peter The Great and Bartlett's Tip Top. Prices reasonable. Correspondence solicited.

EVERETT BARTLETT - COLUSA, ILL.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

S. E. EAKLE

PROPHETSTOWN, ILLINOIS.

Offers a great bunch of spring pigs by S. E.'s Model by Model Chief, Model Wonder, Col. King, Model Again, Nebraska Belle's Ohio Chief and Gold Cloud. Size, finish, bone and quality. Priced to move quickly. Write for descriptions.

HIGH-CLASS Duroc Jersey Bred Sows for Sale

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel boar. These are good. Will not hold a sale and am selling them privately. Address

J. D. McDERMOTT, WIOTA, IOWA.

Boars All Sold

We are breeding a splendid lot of sows to Golden Model, Proud Wonder and Golden Model I Am, for our brood sow sale, January 31st. Remember the date.

OLSON BROS., WOODWARD, IOWA.

YOUNG'S Duroc Jerseys

HEADED by Kants Crimson, an outstanding boar of Kant Be Beat and Crimson Wonder breeding. Will price good males of March farrow; also a full yearling of great promise. Write for price and description. E. K. Young & Son, Havelock, Neb.

DUROC JERSEY SWINE.

25 Duroc Jersey Bred Sows For Sale

I AM offering a choice lot of bred sows and gilts at private sale, bred to Iowa Model 24215 and Fancy Orion 86301. These sows are sired by the leading boars of the breed. Prices reasonable. Write me at once. Address

MARK W. EDDY, FONTANELLE, IOWA.

HARDING'S HERD HEADERS

WRITE me now if you want Duroc Jersey Boars. I have several yearlings by Ohio Chief, out of Proud Advance dams; one yearling by Ohio Chief out of Nebraska Belle; 15 fall boars by Crimson Critic, and a grand lot of spring boars. Address

R. J. HARDING, MACEDONIA, IOWA.

COL'S KING

A full brother to CHIEF'S COL. and ARTHUR'S CHOICE

FIRST prize boar Illinois State Fair, 1907, head my herd. For sale—5 September boars by Arthur's Choice and 125 spring pigs, both sexes, sired by Col's King, Arthur's Choice, Inventor, Kelly's Pilot Wonder, Orion Chief, Locust Lane Chief and Joe Orion. Write for prices.

ARTHUR L. PARKS, LELAND, ILLINOIS.

FIRST PRIZE BOARS FOR SALE

KANT Be Beat Again, first prize junior yearling Ohio State Fair, 1909; sired by Good Enough, dam Our Pride, a second prize-winner at St. Louis. Nuggett, first prize under year and junior champion Ohio State Fair, 1909; sired by Golden Rule, dam Cedarvale Queen 8th. He is a full brother to Good E Nuff. Write for prices and description. Mention The Homestead.

WATT & FOUST,

Cedarville, Ohio. Xenia, Ohio.

MUNCIECHIEF

LITTER mate to King of Colonels heads herd. Spring pigs by Muncie Chief, Nebraska Belle's Ohio Chief 71911, Savannah Belle's Chief I Am, and other noted sires.

A. P. ALSIN, BOONE, IA.

W. J. HARTUNG

MAXWELL, IOWA.

Offers 25 choice Duroc sows for sale, sired by S. E.'s Jr. Jim, Advancer IV., Golden Model II., and bred to W. J.'s Colonel by Prince of Colonels and son of Golden Model II. for March and April farrow. Priced from \$25 to \$50. Write if you mean business.

Brother Breeders and Farmers Read

30 CHOICE Duroc bred gilts, bred to No. 1 hog, best that could be found in the country; heavy bone, with length of body combined; will make a 1,000 lb. hog. Many gilts by last of January will tip the beam at 300 lbs. Every one guaranteed. Write or better come and see me. Jos. Bouska, Calmar, Ia.

CHIEF'S COL. BOAR PIGS

OUT of the great brood sow, Helen Blazes, and other great boars. Pigs ready to ship. Address for price and description.

H. E. Browning, Hersman, Illinois.

Do You Want a Well Bred Duroc Jersey Boar

I HAVE them and they are good, sired by such noted boars as Crimson Wonder Again, Guthrie Chief, I Am Advance, Golden Model 2d and others. Write me for prices on these boars.

GEO. H. MILLER, CHARITON, IOWA.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

High Notcher

Glad Col. and King's Col. head my herd of

DUROC JERSEYS

Write for what you want.

M. A. Kraschel, Macon, Ill.

CRIMSON WONDER AGAIN

DUROC boars for sale—herd headers in type, style and finish. 60 spring pigs sired by Iowa Chief and out of Proud Advance dams. Some excellent fall boars for sale at farmers' prices.

C. O. THORNBURG, Pleasantville, Iowa.

At Last PLOW BOTTOM

Which Will Turn Any Depth of Furrow in Any Kind of Soil With Equal Perfection.

The Most Wonderful Invention in Farm Implement History Which Will Revolutionize the Plow Business of the World

We, the Rock Island Plow Company, have discovered the long-sought principle which makes one plow bottom suitable for all kinds of work in all kinds of soil under all kinds of conditions—a universal, all-purpose bottom.

Implement makers have been striving for this, for the last 40 years. All but ourselves long ago gave it up as an impossibility—like Flying and Perpetual Motion. We Persevered—and have WON. And peculiarly enough the problem of flying in the air (another supposed impossibility) was solved at the same time.

The marvelous performance of this wonderful Universal (C. T. X.) Bottom is almost beyond belief. Every farmer who saw our field tests when we were proving it out became wildly enthusiastic. A surprisingly large number gave orders on the spot for delivery when the plows could be got ready for the market, whenever that time might be. You never saw anything like it. You'd think every man on the ground had discovered a gold mine on his farm.

The Enthusiasm Was Merited

Considering performance, this whirlwind of enthusiasm was to be expected.

Think of one single plow which will do all this right before your face and eyes—

- Turn over SOD without kinking
- Turn under STUBBLE of any kind (wheat, oats, rye; ANYTHING) and not leave a bit of trash showing
- Turn under CORNSTALKS with the same perfection—every stool covered out of sight
- Turn a furrow 2-IN. DEEP and cover all Sod, Stubble or Cornstalks perfectly
- Turn a furrow 8-IN. DEEP under the same conditions equally well

AND—Not only do all this, but do it perfectly in all soils—Sand, Clay, Waxy Bottom Land, Gumbo, Stony or Gravelly—and best of all, with less draft than any other gang plow cutting the same width of furrow.

No matter what the condition of the soil may be, or what is ON

the soil to be turned under, the Universal (C. T. X.) Bottom always turns a PERFECT FURROW. There is no "spilling over"—the furrow bottom is clean as a floor. The slice (no matter whether thick or thin) begins to turn as soon as cut loose from the land by the coulter and flows smoothly over the entire surface of the moldboard without crimping, until it turns completely over, burying all the trash. The land is also left slick and clean. No dirt can slop over on the land side.

No Wonder Every Farmer Wants It

For it means that just ONE PLOW fits him to meet every plowing problem on his farm, no matter how diversified his soil or crops. It means that if he has several plows (as at present) that ALL are suited for the field which must be ready first.

These Wonderful Universal (C. T. X.) Bottoms Now Ready For You

We spent all last year testing and trying our new bottom under every condition of soil and crop we could find from the wheat fields of Canada on the North to the cotton fields of the South, and from the sands of California to the waxy lands of Texas. The last few months have kept us busy filling orders taken during these try-out tests. We have now sufficient of our Liberty Gang Plows equipped so that

Every Farmer Can Now Try This Wonder Worker

But go to your dealer early and leave your order, for the demand from everywhere is so tremendous that we are compelled to fill orders in the order received—first come, first served. The thousands of orders and inquiries already in confirm us in our original belief that inside the next year or two there won't be a plow in the country which is not equipped with this modern miracle of mechanics.

ROCK ISLAND UNIVERSAL (C.T.X.) BOTTOMS

Now Ready on our Liberty Gang Plow

Our Liberty Gang Plow has gained such a reputation among progressive farmers for ease of operation, easy draft and wonderful durability that it needs no lengthy description. Those who have used it for years side by side with all other gang plows, say it is the BEST GANG PLOW EVER MADE, because it has the good points of all with none of the weaknesses or disadvantages. The addition of the new Universal (C. T. X.) Bottom puts it so far in the lead of all other Gang Plows that they must forever continue in the "also ran" class.

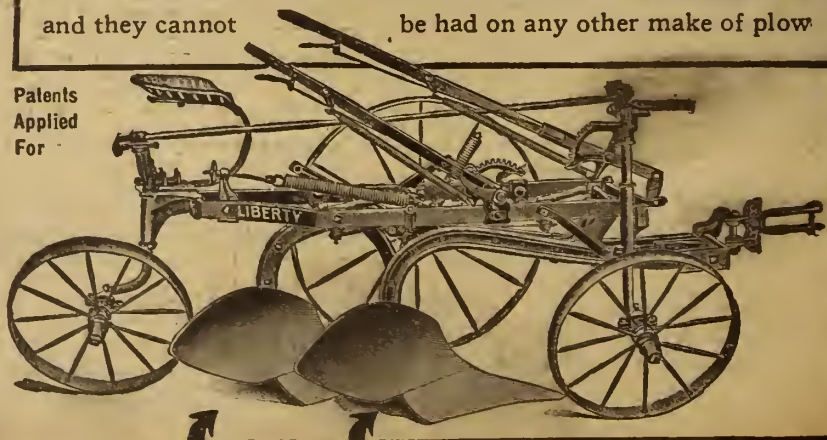
GO TO YOUR DEALER TODAY and leave your order for one of these Wonder-Working plows. Read our Guarantee in the upper panel and remember the great Rock Island Plow Co. is behind it. You take no risk. It means so much to you to have one of these Plows that if your favorite dealer hasn't got it, it will be money in your pocket to hunt up the dealer who has, even if you have to make a special trip to the city. Don't listen for a minute if a man tries to shove off anything else on you—you'll be sorry if you do. Remember there is NOTHING "just as good" or a hundredth part of it. And that's Gospel Truth.

To Dealers: The whirlwind of business and the hundreds of letters which have already come to us about these Bottoms has convinced us that we are stating facts when we say that Plows with these Bottoms will be the only ones which can be sold inside of a few months. Which means that Rock Island dealers will do the business in their sections. We have a full line of A-1 implements, each supreme in its class to back up the plow. If you are ambitious to handle the WINNING LINE, please write promptly. All things being equal, our account will go to the man who is able to "see the handwriting on the wall" and therefore writes first.

(18)

Note the peculiar corkscrew, auger-like twist of the moldboard. A slice of any thickness spreads out evenly over the surface without crimping and turns clear over, burying all trash completely. No spilling over into the furrow or slopping forward onto the land. We control the shape of these moldboards and they cannot be had on any other make of plow

Patents Applied For



Rock Island Plow Company, Rock Island, Illinois.



VOL. LV. NO. 5

DES MOINES, IOWA, FEBRUARY 3, 1910

WHOLE NO. 2730



Make a Big Increase in Yield



VAN BRUNT SINGLE DISK DRILLS

25% LESS SEED 25% BIGGER CROPS

This is the oldest, longest established disk drill—the one that has firmly established itself for its seed saving and crop increasing. It is strongly built to last for a lifetime. It is light draft, with nothing to get out of order. Disk bearings are of special construction, impossible to work loose; need only one, or at most, two oilings a season.

Will not clog in cornstalks, mud or trash.

Alfalfa and grass seed attachments.

Absolutely guaranteed in every way.

Write today for Free Booklet.

SAVE MONEY SEEDING OATS IN SPRING WHEAT IN FALL

Make more money on both ends—by saving seed and increasing the quantity and quality of your stand. You can do it with a Van Brunt Single Disk Drill, as hundreds of other business-like farmers have done—as we can prove you can do.

25% Less Seed--25% Bigger Stand

Think of the dollars this will mean to you year after year. The Van Brunt absolutely corrects all the evils of broadcast seeding. No seed is wasted—none is washed away, eaten by birds, or dried to death by the sun, or killed by the frost. Every seed is securely planted and covered, and if it has a germ of life is sure to grow. Not an inch of ground stands idle all the year because it was not properly seeded. Every seed is planted just the right distance apart—none is bunched to strangle from crowding or die because there was not enough nourishment in the small space to support all the plants.

All Your Ground is Used—All Your Seeds Grow. Increases Quality.

Planted at uniform depths, all the seeds germinate and reach full ripeness at the same time, with stronger stalks, better withstanding wind and beating rains, greatly increasing quality, because all the kernels will be at prime fullness, and your crop less weather worn.

More Bushels to the Acre of Oats in Spring, and Wheat in the Fall

A twice-a-year big saving in seed, a twice-a-year big increase in yield and quality.

It doesn't take long for the Van Brunt to pay for itself—and, after that it is a big help in building up your bank account.

It is Worth Big Money for You to Find Out All About the Van Brunt

Let us send you our Free Booklet—let us send you the warm, strong words of recommendation from the farmers who are using the Van Brunt. Give us just the chance to prove absolutely that the Van Brunt will save and make you a lot of money.

Write for Our Valuable, Interesting, Free Booklet Today

VAN BRUNT MFG. CO., 121 Van Brunt St., Horicon, Wisconsin

Over the Same Roads With the Same Loads-- Which Will You Have?

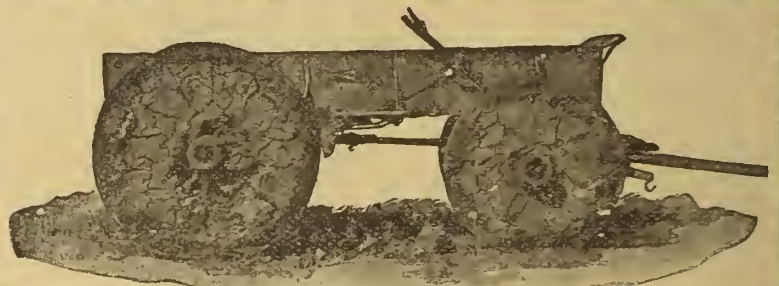
These two pictures tell a story of great interest to every farmer. The wagon with wheels caked with mud from hub to tire is an ordinary wooden farm wagon.

The wagon with wheels practically free of mud is a Davenport Roller Bearing Steel Farm Wagon.

Both were hauled over the same roads with the same loads.

But mud does not stick to the Davenport Steel Wheels. See the letter about it.

This is just one of the reasons why the



ORDINARY WOODEN FARM WAGON.



DAVENPORT ROLLER BEARING STEEL FARM WAGON.

Davenport Roller Bearing Steel Wagon

Insures 30% to 50% Lighter Draft

Think of this and what it means to you and your horses before you buy another wagon. You will come to the steel wagon some day, why not now?

The Davenport has more good qualities than ever before found in a wagon. It is the wagon of strength and durability. It is guaranteed to carry 5,000 pounds. Its gears are of solid steel, rolled into its strongest forms and trussed like a bridge. It combines lightness and strength. The wheels are steel with strong round spokes forged solidly into the hubs and hot riveted into the tires. There's nothing to dry apart, shrink, rot or work loose. No tires to set; no break-downs; no repairs. Has the automobile hub. Oil without removing wheels.

30% To 50%



ROLLER BEARING.

Lighter Draft—Ask Us To Prove It

IT LASTS A LIFETIME

One Davenport is all you ever need buy. It will give you more than twice the service of the best wooden wagon. Write for **FREE CATALOG C**, which will give you all the good features of the great new, steel, light draft wagon. Don't delay, and don't think of buying any wagon until the catalog comes. Send postal for it by next mail.

DAVENPORT WAGON COMPANY, Davenport, Iowa

This Letter Tells About It

Beardstown, Ill., Nov. 11, 1909.

Davenport Wagon Co., Davenport, Iowa.

Gentlemen—Enclosed find two photographs. One of a Davenport Roller Bearing Wagon, purchased of your agent here, and one of an ordinary wooden wagon, showing a comparison of the two wagons with reference to the mud rolling upon the wheels, which in my judgment is a very important factor in a farm wagon, as the draft is so much heavier in mud.

These wagons were used under identically the same conditions, carrying the same sized load, over our Illinois river bottom lands in Schuyler County.

Our men all prefer using the Davenport Wagon, and we consider it light, handy to use and to oil, and durable. We have used it in all kinds of farm work and find it a substantial piece of work in every way. Have hauled (6500) sixty-five hundred pounds on it.

The draft is much lighter than any other wagon we have ever used.

(Signed) GUY L. SHAW.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, FEBRUARY 3, 1910.

STAND BY THE OLD COW

THERE never was a better time for farmers to use a little foresight than the present. All this organized effort to boycott meat as a food product is, to say the least, disconcerting from the standpoint of the farmer, and it would not be surprising if it should temporarily result in the lowering of prices. In the long run, however, it may be depended upon that the old cow will win out.

The American people are believers in the red "corpuscle" and they know, regardless of what may be said to the contrary, that the right kind of fibrin in the blood must come from meat, so that we will have an outlet for meat in this country for all time to come. In any event, if home consumption is cut down there will always be a foreign demand for any surplus we may have, and it is preferable to receive foreign gold for our meat than for wheat or corn. Meat is a condensed product and the more we can sell of it the better it is for our farms and for our farmers.

Of course, farmers will not continue in the live stock business unless they can have a reasonable assurance that the business will be profitable. We have no fears for the outcome and the present agitation should really make the old beef cow more popular than ever. The weak-kneed fellows will get out of the business and their place will be taken by men whose faith is big.

While feed is high and while the selling price of beef steers only affords a small margin for the feeder, yet breeding cattle are, if anything, going below their real value. Pure-bred cows of the various breeds are going at real bargains and we think that the time is opportune for a larger percentage of our people to establish pure-bred herds. In these very times good blood is telling in the central markets better than it ever has in the past. Well-bred, well-finished steers have been selling as high as \$8 a hundred and even a little above this, while mediocre cattle in the same finish have had difficulty in getting up to the \$6 mark. This is a difference of \$24 on a single 1,200-pound steer and in all probability it has taken no more feed to make the good steer than it has to make the poor one. The right kind of farm thrift in the corn belt is closely associated with the old cow. In some cases dairying may be made a specialty, while in others the beef end is emphasized, but in any case we repeat that the most substantial kind of prosperity can only come to the average farmer in the central West when he understands how to handle cattle. We need cattle to convert our roughage into a marketable product, reduced to its most condensed form. We need them as a medium through which to market our grass and incidentally we need them to maintain our fertility supply. The best advice that we can give to those who have cattle in their feed lots at the present time is to carry them through and market

them at the time it was intended to market them when they were put in the feed lot. Half-baked cattle are glutting the market right now and there are thousands of head of butcher cattle being slaughtered that should be carried another ninety days. In the end the percentage of our people who actually cut meat out of their diet will be exceedingly small, and the law of supply and demand will again take the place of prejudice in regulating prices. When that is in force the farmer will be paid reasonably well for all the feed consumed by good steers. If prices are being regulated by the meat trust the government is very apt to get at the root of the matter during the coming weeks and certain gentlemen high up in the commercial world will either be exonerated or each given an individual stall in the federal penitentiary. While the matter is pending, however, there should be no "run to cover" by shipping breeding cows and heifers to market, as the farmers of the great central West need them in their business.

It may be of interest to our readers to learn that a counter-boycott is now being organized in certain parts of the central West, a movement which this paper does not endorse, but which it openly condemns. The intention of these organizations is to band farmers together under a pledge that they will not buy

articles manufactured by labor organizations for a period of one year. This is to be done by cutting down every legitimate expense, buying nothing but the actual necessities of life, making no farm improvements, buying no machinery, and only such clothing as is absolutely necessary. They intend to make it a year of economy with the avowed purpose of teaching the boycotters a lesson that they will not soon forget. As said before, we have absolutely no sympathy with this movement because in the end it will react with double severity on the farmer himself. The boycott against meat will affect most unfavorably those who are most concerned in enforcing it at the present time. The temporary reduction in values of meat creates the packer's opportunity to fill his coolers at a lower cost, and unless the government unearths something very startling in their investigations there will be another rebound in prices after the big run of steers and hogs is out of the farmers' hands, and the effect of this will be to discourage the feeder, the man who above all other men should be encouraged.

CONGRESS TO AID AGRICULTURAL EXTENSION WORK.

A bill has been introduced in congress providing for federal aid to the extension department of the various state agricultural colleges. The bill has been referred to the committee on agriculture, with good prospects of passing, if favorable sentiment is manifested by grain-belt constituents. The bill carries with it an annual appropriation of \$10,000 to the agricultural college of each state and territory (the sum to be divided if there are separate institutions for whites and blacks) "to be applied by these colleges in giving instruction and demonstration in agriculture, home economics and similar lines of activity to persons not resident in these colleges in the several communities, and in conveying and imparting to such persons information with reference to the improvement of rural life." After the first two years the financial assistance shall be increased an amount equal to the amount appropriated by the state or territory to its agricultural college or colleges for the current year for extension work, provided that the additional federal appropriation shall not exceed an amount equal to 1 per cent per capita of the total population of that state or territory as shown by the last federal census. The bill provides moreover that all printed matter issued from the agricultural colleges for the furtherance of extension work shall be transmitted in the mails free of charge for postage under such regulations as the postmaster-general may from time to time prescribe. That the farmers of the grain belt will be favorable to the bill is a foregone conclusion. The need of agricultural college extension



HERON 65123 (75953), TYPICAL PERCHERON STALLION IMPORTED BY W. S. J. B. & B. DUNHAM, WAYNE, ILL. BLACK, TWO-YEAR-OLD, PRESENT WEIGHT 1,900 POUNDS. SEE PAGE 77.

work is everywhere felt. Much progress has already been made, but much remains to be done. The grain belt has taken the lead in this work and has sent the gospel of scientific agronomy broadcast throughout the various states. In Wisconsin, especially, the work has been successfully carried on on a large scale, with other grain-belt states following suit in a most commendable manner. But the time seems to have arrived when the moral and financial support of the national government is needed. It is doubtful if better results could be secured in any other work from appropriations no larger. The people are eager for the knowledge which is available at the agricultural colleges, but which 95 per cent of them cannot possibly attend in person. Every returning student has brought word of discovery and test which has fired the ambition of every hearer, but hearsay knowledge is never satisfactory. It is absolutely necessary in order to elevate the standard of living and increase the productiveness of acres that the great body of farmers get their knowledge accurately and at first hand. The extension department of the state colleges and the progressive, practical farm papers are the main factors in this campaign.

Grain-belt farmers who believe the bill is good and should be made a law should take up the matter with their congressmen. It is by the expression of opinion of their constituents that these representatives at Washington correctly ascertain public sentiment. If they go contrary to the wishes of a majority of their constituents they dig their own political graves. But the constituents must make themselves heard before they can hold their congressman responsible for not correctly representing them.

FARMERS GOING ABROAD.

A short time ago surprise was expressed, by those who had not kept posted, over the fact that grain-belt farmers were buying automobiles quite extensively and, moreover, that they were demanding the best grade of cars. The astonishment which this verified announcement occasioned has hardly begun to subside before the further announcement is made that one state alone of the grain belt will send fully 700 farmers on European tours this summer.

No more interesting commentary on the prosperity and progressiveness of grain-belt farmers could be made than the statement of a steamship company agent at Kansas City. "Ten years ago," says this man, "scarcely any first-class steamship tickets were sold in Kansas City and the idea of a Kansas farmer going abroad was looked upon as a joke that ought to be sold to one of the funny papers. It's different now. Another interesting thing is that in nearly every letter you get from Kansas asking for a steamer reservation there is a check inclosed guaranteeing the order. It convinces me that the Kansas farmers are getting rich. I don't mean well-to-do, or getting on the sunny side of Easy Street, or anything so conservative as that. I mean getting rich. They've got money and, best of all, they're willing to part with some of it as a means of enjoying themselves."

The agent fails to comprehend the entire drift, however, when he concludes his statement with the observation that the farmers going abroad intend only to enjoy themselves. It is an indisputable fact that a large proportion of these foreign-traveling farmers are going abroad to import live stock or to study farming methods in order to better their own conditions. During the past summer a considerable number of grain-belt farmers visited the island of Guernsey because of the widespread interest in the Guernsey breed of cattle, destined to become one of the principal breeds in the dairy advancement of the grain belt. Others went abroad to study the methods of growing wheat in the Black Sea regions, but more were to compare English, Scotch, Irish and common farming methods with American. The articles appearing in *The Homestead* dealing with the characteristics of a grain-belt farmer in England and Scotland are typical of the experience of scores of other farmers. These men have been interested in the stories of intensive

farming in the old country and at last, finding their bank account plethoric, have availed themselves of the opportunity to go and see for themselves. They have heard preached to them over and over again the doctrine that the people of the future must be fed by intensive farming methods, that smaller farms must be cultivated more thoroughly and every acre made to yield its utmost. They have heard, moreover, that large farms are practically unknown in European countries (aside from Russia), yet that more people are fed from the products of fewer acres. Europe has something to teach to the most prosperous and progressive agricultural country in the world and the grain-belt farmers have gone abroad to observe and to study as well as to enjoy themselves.

THOUSANDS ACCEPTING THE OFFER.

Thousands of progressive farmers, desirous of securing the very best reading matter at the very lowest possible cost, are availing themselves of the Red Letter Subscription Offer of *The Homestead*. Letters are coming into this office by the hundred commending the publisher for his selection. It is a difficult matter to select the best and most practical literature for others, but the publisher of *The Homestead* believes that he has made an ideal selection, one which will appeal to every member of the farm household and be appreciated by every member. The selection comprises the best all-around farm paper; the best all-around weekly newspaper; the most practical dairying, poultry and swine publications and one of the very best home papers published, with Rev. Dr. Frank W. Gunsaulus, the noted preacher and writer, a regular contributor. Every issue of every one of these papers is crammed full of practical advice, timely information and the best literature. The combination forms an encyclopedia of current events and helpful advice and information which cannot possibly be excelled. The Red Letter Subscription Offer is simply this: Remit \$1.50 to *The Homestead*, Des Moines, Iowa, and the six following splendid papers will be sent you one entire year: *The Homestead*, *The Kansas City Weekly Star*, *Home Life*, *Kimball's Dairy Farmer*, *Commercial Poultry* and *The National Swine Magazine*. The regular price of these six papers is \$3 a year, by this offer you get them at exactly half price.

FINDING THE GOOD CORN.

The following communication has been received from Mr. T. O. Kinman, of Davis county, Iowa:

The seed corn question is one of the mighty factors in the farmer's platform, and all are agreed that it is not as perfectly handled as it should be. I was set to picking seed corn out of the crib, at the age of sixteen years. I would look for well-matured, sound corn and I would examine the heart of the grains on different sides by opening the grains with my knife, and if I found one grain that was bad I threw the ear away. My plan for years has been to go to the field and pick and hang the corn in any place in the shed, hay mow or over the oats or wheat bin so it would thoroughly dry before freezing, and let it hang until planting time. When I am ready to plant I shell the butts and tips and any suspicious ear I examine. If I find one grain that is moldy or rotten, with a bad heart, I throw that ear away, and I have never in twenty-five years failed to get a good stand. So far as the seed being bad, on the 13th of last September (and some say thirteen is unlucky) I picked and hung eight bushels of well-matured corn. I hung it overhead in the driveway and it got seemingly perfectly dry and I am as well satisfied that it will grow as if I had tested by snouting. I think the testing all right if a person cannot tell otherwise. I have never seen a year as yet but that our corn planted by May 10th produced plenty of good seed that would grow if saved at husking time. However, the proper way and the safer way is to pick and hang it just as soon as it is well glazed. My idea in thus expressing my views is that perhaps many have read, as I have, the idea of some so-called expert on seed corn, and are at a loss to know what to do about their seed corn, and I will add further, that in spite of what professors or experts may say to the contrary, if seed is saved at the proper time and hung in a suitable shed and thoroughly dries be-

fore freezing, I don't care how severe or changeable a winter, if planted at the proper time, it will germinate.

We agree with Mr. Kinman that if corn is picked early and hung up in such a way so that perfect drying takes place before the period of severe frosts, there is little if any need for testing the same. If one ear can be kept in such condition so that it will germinate perfectly there is no reason why 1,000 ears cannot be handled in the same way. However, the seed experts are right when they advise men to test their corn this year. It is not enough to examine the germ with a pocketknife, because this is a year that will more than tax the skill of any man, to say just what seed corn will do from its appearance. There is no question in our mind but what the eight bushels of seed corn picked by this subscriber and hung up on the 13th of September would give a perfect germination test, but at the same time we very much doubt if 1 per cent of the farmers of the great Southwest had their seed saved at that time, and, this being the case, the only thing left to do is to test it.

THICKENING THIN MEADOWS.

A subscriber at Mt. Carroll, Ill., says that he seeded some timothy and clover last year in oats, and that a very thin stand resulted and he desires to know what can be done in order to improve the hay crop for 1910.

This is a very common complaint and under ordinary circumstances men are advised to sow more clover and timothy early in the spring. As a matter of fact this doesn't exactly meet the situation because we have found from practical experience that sowing clover and timothy in the spring does not necessarily add very much to the crop for that year. That plan is to be recommended if it is highly important that a permanent meadow or pasture be established, but if the first hay crop is the item of chief importance, the best plan is to sow a peck or two of small grain per acre early in the spring. Oats will answer the purpose admirably, though possibly a mixture of oats and wheat will be even better.

By sowing small grain in this way and harrowing the seed in, weed growth will be checked and quite a satisfactory crop of hay will result, this being of course a mixture of clover, timothy and oats.

Even if it is the intention to establish a permanent meadow or pasture, this plan may be carried out if, in addition to the small grain, a few pounds of timothy and clover seed are added. This seed will take hold in the bare places and come on and make a very good stand before the ground freezes up in the fall, and it will be there ready to do its best the following year.

THE SO-CALLED "HARROW ATTACHMENTS."

The following communication has been received from a subscriber of Polk county, Iowa:

Every year brings forth something new in the implement line, and every progressive farmer ought to be interested in those things that will cut down labor. I am specially concerned at this time in the so-called "harrow attachments" that I have seen at the local implement dealers and they are being advertised to a considerable extent in your paper. Those attachments embody a most practical idea. I have more than an ordinary degree of interest in them because for years I attached a small section of a harrow to my sulky plow and did fairly good work. You can see that I was struggling with an idea and I didn't have gumption enough in me to think of the right thing. With my plan there was a little too much side draft, but it looks to me as though that will be greatly reduced by the modern attachment.

The average farmer can hardly appreciate what an advantage it is to pulverize land just as soon as it is plowed. It creates a mulch which conserves moisture and perhaps makes a seed bed, so that if you were in a hurry you could go right on with your planter immediately after plowing. If it is the intention to allow a period of ten days or two weeks to come in between the time of plowing and planting, your harrow attachment creates ideal conditions for weed growth so that you have the opportunity of killing one crop before putting in your corn. You save the time required to go over the field with a harrow and that is not an insignificant matter in these times.

We are pleased indeed to call special attention to this modern device used as an attachment to the sulky plow. This paper has always advocated the plan of harrowing the soil just as soon as possible after it is plowed for the reasons mentioned by this subscriber. This doctrine is especially true on land that contains a

considerable percentage of clay—land that is inclined to be cloddy if not broken up immediately after it is plowed. To plow and harrow at the same time means the saving of labor, the saving of horse feed and the cutting down of wear and tear generally. To perform the two operations at the same time means that our culture operations are being evolved and there are those who think that the time is not far distant when the three operations will be carried on at one time, namely, plowing, pulverizing and planting.

The merits of the harrow attachment are certainly worth looking into.

WHY A DRAINED SOIL IS WARM.

There is more interest being taken in the question of tile draining today than at any time in the past. Tile factories all over the central West are working full time, and indeed many of them are operating under the double-shift system. This means that there is a strong demand for tile, than which no better sign of increased soil productiveness could be asked or hoped for.

The fundamental principles of soil drainage are the same the world over, and consequently we believe that our readers will be interested in the following extract from a Canadian bulletin dealing with the effect of drainage on soil temperature:

In the springtime a drained soil is warmer than an undrained by from 5 to 12 degrees, according to measurements made by Professor King, of Wisconsin, a very important fact indeed, for the warmer the soil the more quickly and completely the seeds will germinate and the thrifter the young plants will be. "A good start is often half the battle" is especially true of plants.

The heat received from the sun is used in three ways. Some of it evaporates water from the soil, some heats the surface layers or seed bed, and the remainder is conducted to lower layers. That evaporation uses heat the reader may easily prove. Let him take two thermometers and put a dry linen or cotton gauze over the bulb of one. He will note that the two in this condition indicate the same temperature. Now, let him moisten the gauze with warm water and watch results. In a short time the wet bulb reads several degrees lower than the dry bulb, showing that heat is being used by evaporation. As soon as the gauze becomes dry and evaporation ceases the two indicate the same temperature again. Few realize how much of the sun's heat is used in evaporating water from the soil. As long as the latter looks wet on the surface evaporation is going on about as rapidly as from free water, and the amount of heat used by it runs from 25 to 50 per cent of the total amount received from the sun. This, at a time when warmth is needed to germinate the seeds, is a serious loss. As soon as the soil begins to look dry on the surface the rate of evaporation falls off materially, and much of the heat formerly used in turning water into vapor is available for heating the surface layers. Now, a loose, porous soil will look dry on the surface much more quickly than a compact one. Every farmer knows this, though he may not be conscious of it. After the final stroke of the harrow has been given a field, the compact soil in the teamster's footprints stands out dark and moist for several days after the rest of the surface is dry. Every farmer has seen this. It is often taken as an indication that rolling saves moisture, but if toward the end of the second day after harrowing the farmer will carefully scrape off the dry layer beside the footprint he will find the soil below to be far more moist than that in or below the print itself, and he must conclude that evaporation from the loose layer has been checked, while from the compact it has continued at a rapid rate. In a similar manner, undrained soil, being the more compact, remains moist on the surface, and evaporation from it continues at full speed long after it has been checked on the porous, drained land. Moreover, loose soil is a poorer conductor of heat, and hence carries less of it down to the lower layers. The difference arising from these conditions is accentuated by another cause: Water is the hardest known substance to heat, and since during most of the time it is too wet, the undrained soil has more water in it than the drained, it follows that it must be colder. With the drained land saving heat because evaporation is checked, conducting less to the lower layers, and at the same time being easier to heat, the temperature of its seed bed is easily maintained from 5 to 12 degrees higher than that of the undrained.

Just think what this means where land is to be devoted to corn-growing purposes. The roots of this crop take most kindly to a warm and congenial soil, and indeed, if the crop is to thrive and produce anything like satisfactory returns, the roots must have just that kind of surroundings. To put the matter in the simplest form, it may be said that land drainage lessens surface evaporation, which is always a cooling process.

As Michigan pays two cents apiece for the birds, Escanaba takes place whisky-soaked bread crumbs in the es where sparrows collect. The birds get the "dope" and become intoxicated, unable to walk or fly, in which condition they are easily picked up by the hunters.

WHY I LIKE FARM LIFE

A Grain Belt Schoolma'am, Who is Progressive and Alert, Institutes a Contest to See Which One of Her Pupils Can Write the Best Essay on Superiority of Farm Life Over City Life

HOW to keep the boys and girls on the farm! This is the problem which confronts every section of agricultural America. It is a serious problem, but one which is not impossible to solve.

In one of the ninety-nine counties of Iowa there is a schoolma'am who is doing her full share toward solving this problem. She is making real country schools of the rural schools, teaching country things in a manner to make them appeal to country folks. This schoolma'am argues that every school-house should be so conducted that "an ear of corn, a germination test box, a good agricultural paper and a country boy and girl will feel quite at home." She believes that when this comes to pass "you will not have to urge your boy to stay on the farm."

But this is not all. Farm life must be made attractive to the boys and girls so that they will be eager (not simply passively willing) to remain. This Iowa schoolma'am, Miss Jessie Field by name, hit on the plan recently of asking her pupils to tell in writing just whether or not they like farm life, and if they like it, why. She had impressed on the children's parents long before that all work and no play makes Jack a dull boy and Jill a bad girl and had converted the parents so that they let her pupils have their own pets and amusements and even their own separate tracts of land to cultivate and reap the profits from. So it is not to be wondered at that when the children of her school set to work on their essays they realized just how pleasant farm life is and readily told why they like it and would be loath to exchange it for city life. In order to stimulate interest Miss Field offered a couple of prizes, one for the girl writing the best essay and one for the boy writing the best one. The strange coincidence is that a brother and sister won the first places. They were in the eighth grade and are good examples of the sort of young folks reared in progressive rural communities which have up-to-date country schools.

"This great movement to make the boys and girls appreciate the possibilities in the country is one of the most vital problems before us today," declares Miss Field, and none will dispute her word. The prize-winning essays prove that she has opened the eyes of the children of her section so that they see the advantages of farm life over city life.

The prize-winning essay of the boys, written by Warren Fleming, is as follows:

"For many reasons I like to live on the farm. Farm life is full of exciting adventures. The robin sings his first song on the farm. The grass begins to get green, the farmer is turning over the ground and the first thing you know summer is here, the pleasantest time of all.

"Early in the morning the farmer boy is out whistling and singing as loud as he can, not disturbing anyone. He does his chores, goes to the house and eats his breakfast, and is off, hard to tell where, but enjoying himself. How could he help but be healthy, nothing but good, pure water to drink, fresh air and good food?

"In the spring the little colts are broken to lead, fed sugar and are petted until they are gentle. In the winter they are taught to ride and drive. We have two colts brought up in this manner that will do a great deal of the light work this year. And more than that, I broke them myself, not because we needed them—it was just a pleasure. They were broken single to a home-made cart, which could not have been made anywhere except on a farm.

"Town life is all right, but I will take the farm every time. I can prove that farm life is pleasant because a small boy was visiting one of our neighbors last summer and came to where we were working. It happened we had a gentle horse with us we were not using. I helped him on, but he was harder to get off than to get on. Instead of going to the well near by to get a drink he rode about half a mile just for a ride.

"Now I have been telling the bright side of farm life, but it can be improved yet. The country has more money than the town. Why can't they afford the large house, autos and such fine things? When the farmers get interested in good roads and drag them the autos will come to the country. Some people think country schools are not as good as town schools, but if they are not they will be soon, if they keep improving as they have been.

"Country children can have many more pets than town children because it is cheaper to keep them in the coun-



A TYPICAL GRAIN BELT FARM HOME SCENE, DEAR TO THE HEART OF THOUSANDS OF GROWN UPS. THE PROBLEM IS TO KEEP IT DEAR TO THE NEXT GENERATION.

try. What is there a child can have a better time with than a Shetland pony, which so many have? In the winter the children go skating to a near-by pond, go hunting and enjoy themselves most all the time.

"On Sundays the farmer will hitch to the carriage and take his family to church. They will go to Chautauquas, theaters, fairs and wherever they please, yet their work goes on. The farmer



WARREN AND LIZZIE FLEMING, PRIZE WINNERS IN AN INTERESTING CONTEST FOR COUNTRY SCHOOL CHILDREN.

has fruit the whole year round where the people in town have to buy it.

"Where do most of the great men come from? Is it not from the farm? Yes, and they are not ashamed of it, either. A girl needs never be ashamed to meet any of her friends if she is with a country boy, for the country people can afford to dress and do dress as well as the town



THE TENDENCY OF THE DAY IS TO REPLACE THE OLD FARM HOUSE WITH A MODERN HOUSE WHICH MAKES FARM LIFE MORE ATTRACTIVE.

people. I like to live on a farm because we have all these advantages and it will take a person who has a great deal of control over me to get me off a farm.

"My father gave me about four acres to farm this year which I intend to tend, with the colts before mentioned. I intend to tend this mornings and evenings and Saturdays and go to school besides. I have already sent for a seed catalog. I intend to make a hundred dollars or more off of this toward a fund to pay for a course at Ames. Then I will be more able to tell you why I like to live on a farm."

The girls' prize was won by Lizzie Fleming, who makes out a good case for the country in this manner:

"I like the farm because we have good fresh air to breathe. We have pure food to eat and know it is pure because we raise most of what we eat on the farm. Another thing I like about the farm is that I can get out and sing and yell as loud as I wish and not disturb anyone.

"I milk three cows every morning and it seems the louder I sing the more milk they give. After I get this done I can sit and eat a hearty breakfast of pancakes and beefsteak. I like farm life because I can get out and ride horses and feed calves and do such work, while girls of my age in town are either in bed or studying. I like holidays and a great many times girls in town can't have these.

"I like to live on the farm in winter because I can coast and skate. I like to live on the farm because we can keep horses, ponies, cattle, sheep and hogs. I like meat and if you live on the farm you can have plenty of it, while if you get it in town you have to buy it.

"It is also pleasant to live on the farm because you can keep chickens and they run around and aren't on anyone else's ground and this way you may always have fresh eggs.

"In the country the taxes are much lower than they are in town, which is a great benefit to the lower class of people. If the farm isn't all right, why does Miss Field say, 'Keep the boys and girls on the farm?'"

Would it not be a good idea to inaugurate similar contests in other counties of the grain belt? Farm life is superior to city life and possibly a contest among the rural school pupils on this subject would awaken an interest and lead to an appreciation now conspicuous by their absence.

The suggestion has already been adopted in several sections of the grain belt and those who have followed Miss Field's example have secured a number of articles and essays which show the writers to be enthusiastic over the advantages of farm life. For instance, here is an article written by a fifteen-year-old boy in an Illinois school. He points out the superiority of farm life over city life in a manner that leaves no room for quibbling:

"Some cousins from the city visited our place during the holidays last summer and we certainly had lots of fun. They think that it is better to live on a farm than in the city because you learn more about stock and crops and have far more fun. I think a town boy is greener than a country boy, because you can make him almost believe anything. We told our cousins that we were growing oranges in the back field and off they went to get some. Now you know we grow corn in our back field, and if they didn't look and look all day in that corn field for oranges. My brothers and myself simply laughed all day, but we nearly got afraid that they would get lost on our back eighty. When they came up at night they said that the oranges weren't ripe and we said we were sorry, we thought they were.

"Once we had a big fat calf in the barn and we put a halter on him and I gave the rope to one of my cousins and then we opened the door. He went down the lane so fast that you could hardly see him, and he was all out of breath. We asked him why he didn't let go, but he said he was going so fast that he couldn't let go. One of our big three-year-old colts was standing right close to the fence in the pasture. He seemed quiet and nice, so I told my cousin to climb up on the fence and get on his back. This seemed to interest the colt; he started off to beat time with nothing to hold onto but the mane. When he went twice around the field he was all tired out and my cousin's pants were all wet with sweat, so he said he didn't like to ride horses. So you see lots of the fun on the farm

(Continued on page 6.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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AMUSEMENTS AT OUR FAIRS.

The subject of amusements at our state and county fairs is one which comes up as regularly as the fair seasons come and go. The boards of managers need, or think they need, the money. The insistent agents of the shows are remarkably zealous in their desires to book their attractions and get their "rightful" share of the "easy money." It is for these reasons that the question cannot or has not been decided once and for all time.

At a meeting of the Wisconsin Agricultural Fair Associations, recently held in Milwaukee, Secretary of State James A. Frear expressed these views upon the question:

No one will advocate eliminating innocent performances nor decent forms of entertainment from county fair attractions. It is, however, to inform the citizens of agricultural possibilities and afford them a school of instruction by object lessons or competition that state aid is given to these county fair associations or societies. Over \$85,000 was paid last year by Wisconsin toward the support of seventy-eight fairs, not including the state fair. In many instances state aid amounted to nearly one-half the total fair expense.

It is a mistake to ask for state money if the purpose is simply to amuse the public with the proceeds. Every hamlet in the state possesses its moving picture show. Street fakirs and questionable performances live off the city as well as the country, but under police supervision, in cities these performances are kept within restricted bounds. It is at the county or state fairs that such exhibitions demand more license than in other places.

The national government gives liberally to its great expositions, spending millions of dollars in attracting the best exhibits from all lands. Of these great sums only a small part is used to support cheap attractions. The "Midway," the "Pike," and the "Trail" when permitted to exist are subordinated to the real educational purposes of the exposition. What is true on a large scale should be equally true of the county fair.

While admitting that the men who manage the Wisconsin Agricultural Societies are among the first of each community, Mr. Frear pointed out that these men have grave responsibilities upon their shoulders, for the wives, mothers and children who go to county fairs should not be confronted with objectionable pictures nor performances. If anyone believes such performances are necessary to attract people to the county fair, then have them segregated or districted, where they will not disturb those who come to enjoy the fair and not to see a side show. This supervision must be undertaken by ourselves. No greater license should be extended on the fair grounds to amusements that are demoralizing, or in no sense educational, than to the sellers of citric acid, labeled lemonade, or gambling devices which are now relegated to the background.

There are a few who contend that a fair cannot be successfully held if snake charmers, fire eaters and fixed races are eliminated from the programs. If such was the case it would be far better to discontinue the county agricultural shows. Our faith in the great mass of the people, however, forces us to question the truth of such a statement.

The Iowa State Fair is one of the very best in the middle West and, therefore, in the entire country. Why? Simply because the board of managers can and does place the emphasis where it rightly belongs—upon farm products and farm production. That the visitors appreciate the efforts of

the officers is evidenced by the manner in which they patronize the main features of the fair—the exhibitions in the live stock pavilions, the agronomy and horticultural halls. If men can see as good or better horses, cattle, sheep or swine than they are producing, they are well repaid for their journey and need but little of the "ginger bread" entertainment to satisfy them. There is a place in every fair for a limited amount of good, wholesome amusement. It must be made a subordinate feature and kept carefully supervised.

THE GOOD ROADS AGITATION.

Periodically the central West has what might be called a good roads spasm. This is characterized by men in every walk of life getting excited over the fact that our roads are not improving, even though we are spending a vast amount of money on them. As a matter of fact we believe that the roads of the central West are improving, but true enough we are not progressing rapidly. The old wooden culverts are being replaced by concrete construction while temporary bridges will soon be a thing of the past. These improvements in themselves indicate that we are making progress.

As to the general condition of the traffic surface, however, it may be said that if there is any improvement it is not very marked. Several state conventions are to be held this winter which will be devoted entirely to the discussion of good road topics and it is quite likely that these conventions will result in crystallizing public opinion, or at least they will tend to unify to some extent the views of men as to what constitutes the most practicable kind of a road under central West conditions.

In the outset it must be frankly acknowledged that no system of permanent hard roads can be made popular in the corn belt in the near future. Road making material is so scarce that the problem of transporting it and putting it in place makes a hard road impracticable over the greatest portion of the central West. So small a percentage of our people are in favor of expending \$3,000, \$4,000 or \$5,000 a mile, that it amounts almost to an absurdity to advocate that kind of a road. The best that can be done is to handle in the most scientific way the common earth out of which our roads are made.

Experience has taught us a few things in the last decade that ought to throw a little light on road-making methods in the future. It has been demonstrated, for instance, that farmers themselves do not have the time to look after the roads. A few states have passed laws giving the trustees permission to hire farmers at so much per mile to drag the roads in their vicinity, the understanding being that the township would furnish the drags. When that law went into force we all expected to see well-kept roads, but as a matter of fact the actual working out of that law indicates that farmers either lack the time or the inclination to drag the roads. We have in mind one township where a dozen road drags were made last spring, but these were never hitched onto during the whole road-making season of 1909. Trustees claim that farmers in every instance put up the plea that they could not possibly find time to drag the roads, especially at the rate of payment offered, namely, fifty cents per mile for each dragging. This is the condition we must face. We cannot change human nature and we must, therefore, sensibly adapt ourselves to the conditions such as they are found. It evidently leads direct to a system by which roads are made and maintained by contract, and if that plan is to be successfully carried out more authority may have to be given in the future to the county officials, and in turn, responsibility must be placed on some individual in the county who actually knows how to make roads. In other words, we must come to the time when our roads will be made and maintained under the supervision of an engineer. We appreciate the fact that the thoughts of employing a high-priced man for this work do not appeal very forcibly to a large number of our people, but we have only to point to the slow rate of progress that we are now making in

road construction to demonstrate that the old-fashioned system is not a success. The employment of an engineer does not necessarily take away from the township trustees their authority, but simply means that under a competent engineer the trustees of all the townships in a county can be made to unify their methods and as a result bring about some permanent improvement in the roads.

For the central West, road construction and maintenance would seem to be simple, though it does not seem a simple matter to work out a feasible plan. We need more tile draining on the road sides, we need higher grades on the average so as to keep the water off the center of the road, and we need more dragging to keep the roads smooth. The old-fashioned system of allowing each one to work out his road tax has not resulted in making a well-graded road or a well-drained road or a well-dragged road, and that is why we favor the contract plan under the general supervision of a man who actually knows something about roads. It is no reflection on farmers to say that they have not been able to make much progress in road making, for the simple reason that they are so wrapped up with their farming affairs that it is an impossibility to give roads the time and attention that they need.

GROWTH OF RURAL MAIL DELIVERY.

Remarkable growth of the rural free mail delivery service is shown by the report of the postmaster-general just made public. During the fiscal year ending June 30, 1909, practically twice as much mail was handled on rural delivery routes as was handled in 1905. The increase amounted to 96 per cent.

"This remarkable increase is conclusive evidence that the institution of rural delivery has enlarged the amount of the mails handled and therefore increased the revenue," comments the postmaster-general. "This is true, although 45 per cent of the bulk of mail on rural routes is second-class matter, as the increase applies to all classes of matter, especially to letters and postal cards, the latter due to the enormous use of souvenir or picture postal cards."

The report is pleasing in that it shows the revenue to be increasing proportionately with the popularity of the service. Fears were expressed at first that the service would prove so expensive as to add to the postal deficit beyond all reason. The rural service is still conducted at a loss, but the rapidly increasing amount of mail carried (particularly of letters and postcards, on which the department is able to make a profit) makes it highly probable that the day is not far distant when the service will be self-supporting. The marked improvement in the roads traversed by rural mail carriers will be an important factor in bringing this about. The intelligent and well-directed efforts of postmasters and carriers have resulted in "unprecedented improvement of the condition of roads," to quote the postmaster-general. If the service did nothing else it would justify itself. But a continuation of this improvement must inevitably result in cutting down the expense at which the service is operated. Carriers will be able to cover more territory and serve more patrons, while improved roads mean consolidated routes, with the possibility of parcels post delivery always imminent.

The postmaster-general's report shows that during the past fiscal year 3,376 petitions for new routes were filed and 2,108 petitions were granted.

LUXURIES TO BLAME FOR HIGH PRICES.

One phase of the high price situation which seems to have been overlooked is this: Why should the people attempt to do their cutting down on necessities when they make no effort whatever to cut down on luxuries? The very people who are trying the thirty-day boycott of the butcher are the people who pay \$1.50 for a theater ticket without complaining; who spend their noon hours at a ten-cent moving picture show when they might be strolling about getting the needed fresh air and saving their dimes; who insist on the common articles of diet, such

as crackers and butter, being put up in handsome cartons which necessarily cost money; who eat the choicest cuts of meats, mainly because they are prepared more quickly and it is not necessary for the wife or the cook to remain at home in the afternoon and cook the less expensive meats and thus save money but incidentally lose the opportunity to mingle in afternoon social affairs. If these people are driven to the desperation point by thirty-five-cent eggs, forty-cent butter and thirty-cent beef why do they not attempt to economize by cutting down their luxuries and thus having money enough with which to purchase the necessities on which sustenance depends?

There is another phase to the situation which must not be overlooked. A grain-belt farmer writing to a city newspaper sets it forth in this manner:

For many years the drift from the country to the cities by the young men has been going on. Some only for the pleasures they found there; possibly a little easier job in their estimation. Others because the cities offered better opportunities to go into business, leaving the farm for the father to run as best he could until cares and low prices, coupled with the scarcity of farm help, compelled him to join the city members. The result today is a great per cent of the farms are handled by renters and very few of the rented farms are kept up in fertility and are not producing as much as they formerly did. To say that the growth of consumption has overtaken the power of production would be borrowing trouble that belongs to the great-grandchildren. What is wanted in the country is more practical farmers to grow produce for which the consumer must pay more than they have done in the past because it will cost more to grow it.

The blame for high prices lies as much on the city folks who economize at the wrong end, on the transplanted farm folks who should stay on the farm where they belong and on the farmers who do not make every acre yield to the maximum of productiveness, as it does on the trusts, the increased production of gold, the retail dealers, the jobber and the tide of immigration. It will not do to cry down high prices and prosperity and continue enjoying luxuries which can be minimized without destroying the worth-whileness or the enjoyability of existence.

WHY I LIKE THE FARM.

(Continued from page 5.)

comes from having greenies from the city visit you. We were awfully frightened one day last summer, though, when my cousin picked up a little pig and started to the house with it. The old mother pig came bounding around the corner of the straw stack and gave a bark that you could hear a mile. He dropped the little pig right flat in the mud and got through the gate just in time. An old sow is smarter than a city boy.

"I like making cider better than anything else on the farm. We have a ten-acre orchard and we make about twenty barrels of cider every year. It turns to vinegar just a little too quick to suit me, but I guess that can't be helped. We get twenty-five cents a gallon for our vinegar when it gets good and sour.

"We have Aberdeen Angus cattle on our place and they are good ones, too. A big feeder bought some steers from us last year and showed them at the Chicago International and won first prize. I saw them when they were starting to the show, and say, they were fat! One of them looked through the fence and I think he knew me because he fairly smiled."

A few more contests such as Miss Field's and a few more articles such as the three here set forth and farm boys and girls would begin to realize that they have the best of the argument after all and would not envy their city cousins for a moment.

Enough flour to supply more than 2,000,000 people with bread was made by Kansas City mills in 1909. The eight mills in operation, including one in Independence, Mo., ground more than 12,000,000 bushels of wheat, turning out 2,666,000 barrels of flour. This is an increase of about 36,000 barrels over the production reported in 1908. Kansas City is having a neck-to-neck race with Buffalo for second place as a milling center. The Minneapolis output is about five times that of Kansas City.

THE MYTHOLOGY OF CORN



Tribal Legends of the Indians as to the Manner in Which the King of Cereals was Given to Mankind---In Every Legend a Woman is the One Who Brought the Golden Gift into the World



WHEN the white man came to settle the New World he found a new and wonderful grain under full and intelligent cultivation by the Indians. It was the "seed of seeds," maize or Indian corn. Powhatan taught the English in Virginia how to raise it, and Squanto stood the pilgrims "in great stead, showing them both ye manner how to set it and after, how to dress and tend it," and the various foods which we use today made from Indian corn are all cooked just as the Indians cooked them at the time of the settlement of the country, and they are still called by Indian names such as pone, hominy, suppawn, samp and succobash.

From time immemorial maize had formed the staple food of the American aborigines and naturally there grew up among them a widespread and extensive "mythology of corn," says the Kansas City Star. There were myths as to its origin, elaborate ceremonials at planting time, magical rites for the protection of the growing crop, a mystical ritual for rain-making and promoting the growth of the corn, green corn dances, manifesting joy and thankfulness for the new and bountiful harvest, and solemn religious ceremonial at the selection of the seed for the next year. In fact, the mythology of Indian corn would require a goodly-sized volume for anything like a thoroughgoing exposition and analysis of the accumulated lore upon the subject.

One feature is especially noticeable in these myths, and, indeed in many of the corn ceremonials and rites, and that is, that with but few exceptions, the origin of corn is attributed to a woman. The Corn Spirit is a woman, and in general, the woman is regarded as having a mysterious relation to corn and its cultivation.

It is also to be noted that the origins of corn and game are often united in the same myth, and there is sometimes to be found the introduction of the sacred numbers, four and seven, and an elaborate color symbolism.

In Iroquois legend, according to Morgan, the corn plant sprang from the bosom of the mother of the Great Spirit after her burial. The spirits of corn, bean and squash are represented as three sisters. They are supposed to have the forms of beautiful women, to be very fond of each other, and to delight to dwell together. This last belief is illustrated by a natural adaptation of the plants themselves to grow up together in the same field and often from the same hill.

In Creek myth the corn plant appears to be the transformed body of an old woman whose only son, endowed with magical powers, has developed from a single drop of her blood.

The Dakota tribes received corn from The-Woman-From-Heaven, about the years A. D. 901-930, according to the legend given by Col. Garrick Mallory in the tenth annual report of the bureau of ethnology.

All the tribes of the Dakota nation were encamped together, as was their custom, when all at once a beautiful young woman appeared to two young men.

One of them said to the other: "Let us catch her and have her for our wife."

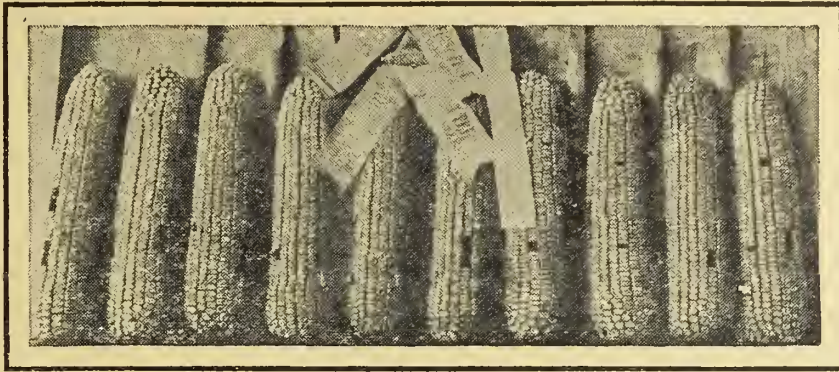
The other said: "No, she may be something Wakan" (supernatural or sacred).

Then the woman said to them: "I came from heaven to teach the Dakotas how to live and what their future shall be."

She wore what appeared to be snakes around her legs and waist, but which were really braids of grass. She said:

"I give you this pipe; keep it always;" and with this she gave them a small package in which they found four grains of maize, one white, one black, one yellow and one variegated. (Four is a favorite or magic number among the Indian tribes generally, and has reference to the four cardinal points.) She said:

"I am the buffalo, the White-Buffalo-Cow. I will spill my milk all over the face of the earth, that the people may live." By her milk she meant maize, which was thus with the flesh of the buffalo itself, appointed from the beginning to be the food of all the red tribes. She



IT IS A FAR CRY FROM THE INDIAN'S METHOD OF TILLAGE TO THE PRIZE-WINNING, MODEL METHOD OF GROWING CORN TODAY.

taught the people to call her "grandmother," a reverential title among the Indians, and after leading them to her relatives, the buffalo, she faded from their sight as they stood gazing at her.

The original home of the Caddo tribe was on the Lower Red River in Louisiana. According to their tradition, which has parallels among several other tribes, they came up from under the ground through the mouth of a cave in a hill which they call Chakanina, "The place of crying," on a lake close to the south bank of the Red River, just at its junction with the Mississippi. In those days men and animals were all brothers and all lived together under the ground. But at last they discovered the entrance to the cave leading up to the surface of the earth, and so they decided to ascend and come out. First an old man climbed up, carrying in one hand fire and a pipe and in the other a drum. After him came his wife with corn and pumpkin seeds. Then followed the rest of the people and the animals. Because the Caddo came up out of the ground they call it ina, mother, and go back to it when they die. Because they have had the pipe and drum and corn and pumpkins ever since they were a people they hold fast to these things and have never thrown them away.

The seicha or flat pipe is the sacred medicine of the Arapaho. According to their myth it was given to their ancestors at the beginning of the world after the turtle had brought up the earth from under the water. It was delivered to them by the duck which was discovered swimming about on the top of the waters after the emergence of the land. At the same time they were given an ear of corn from which comes all the corn in the world. The Arapaho lost the art of

agriculture when they came out upon the buffalo plains, but the sacred pipe, the turtle long since turned to stone, and the first ear of corn, also transformed to stone, they have cherished to this day as their great medicine.

In Osage tradition mankind came from the lower world by different ways, and with many adventures. Four buffalo bulls coming near them, the first one rolled on the ground, and, as he arose an ear of red corn and a pumpkin fell from his left hind leg; as the second bull rose and came to his feet an ear of spotted corn and a spotted pumpkin fell from his left hind leg; from the third bull came dark corn and a dark pumpkin in like manner, and from the fourth bull the corn and pumpkin were white.

The Arickaree tradition is similar to the Osage in most of its details.

There is a beautiful Seneca story of the origin of corn in Canfield's "Legends of the Iroquois," as follows: "Long and earnestly a young brave wooed a beautiful maiden and at last gained her consent to live in his wigwam. Fearing that she might be stolen by one of her many admirers he slept by night in the forest that he might be near to protect her. One night he was awakened by a light footstep and, starting up, saw his loved one stealing out of her lodge as a sleep-walker. He pursued her, but as if fleeing in her dreams from a danger that threatened her life, she ran from him like a fleet-footed hare. On and on he pursued and finally drew so near that he could hear her quick breath and the rapid beating of her heart. With all his remaining strength the lover sprang forward and clasped the maiden's form to his breast. What was not his grief and astonishment when he found that his arms clasped not the maiden he loved, but a strange plant the like of which he had never seen before. The maiden had awakened just as her lover overtook her, and frightened at her surroundings, she was transformed. She had raised her arms just as her lover caught her and her uplifted hands were changed to ears of corn and where her fingers caught her hair the maize bears beautiful silken threads."

In the Cherokee myth the origins of corn and game are united in the same legend as in the Dakota myth of the corn and the buffalo.

Long years ago, soon after the world was made, a hunter and his wife lived at Pilot Knob with their only child, a little boy. The father's name was Kanati (the lucky hunter), and his wife was called Selu (corn). Another boy whom they called Inage-utasunhi (he-grew-up-wild), sprang from the blood of the meat which Selu washed in the river near the house. By stratagem the hunter and his wife seized the Wild Boy and kept him in their house until they had tamed him, but he was always wild and artful in disposition, possessed magic powers, and was the leader of his brother in every mischief. Every day when Selu got ready to cook dinner she would go out to the storehouse with a basket and bring it back full of corn and beans. The boys had never been inside the storehouse and so wondered where all the corn and beans could come from, as the house was not a very large one; so as soon as Selu went out of the door the Wild Boy said to his brother, "Let's go and see what she does." They ran around and climbed up at the back of the storehouse and pulled out a piece of clay from between the logs, so that they could look in. Then they saw Selu standing in the middle of the room with the basket in front of her on the floor. Leaning over the basket, she rubbed her flesh and the basket was half full of corn. Then she rubbed under her arms and the basket was full to the top with beans. The boys looked at each other and said:

"This will never do; our mother is a witch. If we eat any of that it will poison us. We must kill her." When the boys came back to the house she knew their thoughts before they spoke.

"So you are going to kill me?" said Selu.

"Yes," said the boys, "you are a witch."

"Well," said their mother, "when



THE RED MAN BELIEVES THE GREAT SPIRIT GAVE CORN TO MANKIND, BUT THAT A WOMAN WAS THE MEDIUM THROUGH WHICH THE GIFT CAME.

you have killed me, clear a large piece of ground in front of the house and drag my body seven times around the circle. Then drag me seven times over the ground inside of the circle, and stay up all night and watch and in the morning you will have plenty of corn."

The boys killed her with their clubs, and cut off her head and put it up on the roof of the house, with her face turned to the west and told her to look for her husband. They then set to work to clear the ground in front of the house, but instead of clearing the whole piece they cleared only seven little spots. They dragged the body of Selu around the circle, and wherever her blood fell on the ground the corn sprang up. But instead of dragging her body seven times across the ground, they dragged it over only twice, which is the reason the Indians

work their crop over but twice. The two brothers sat up all night and watched their corn, and in the morning it was full grown and ripe.

The corn myths and ceremonial of the Zunis are very voluminous and vary greatly according to the accounts of Frank Cushing and Matilda Cox Stevens, who have investigated them.

The Zunis, like the Caddo, believe that they came up out of the underworld and migrated from place to place in search of the middle of the world, Zuni. Corn was brought to the Zunis by seven maidens, sisters of one another, sisters of one home, foster children of Paiyatuma, God of Dew, and they were surpassingly beautiful, in so much that they were likened to the seven bright stars and are sung of in the songs of the seed people and told of in their stories.

CURRENT EVENTS

THE public hearings of the joint congressional committee to investigate the charges made against Secretary Ballinger have begun, but not much progress has yet been made. In the position of prosecuting witness is L. R. Glavis, the special agent of the land office, who was recently summarily discharged from government service. Mr. Glavis' attorney summed up the more important charge against Secretary Ballinger in this manner: "That Mr. Ballinger, as commissioner of the land office in 1907, did not show due diligence in the investigation of the alleged frauds connected with the Cunningham coal land claims in Alaska; that he had knowledge of all the circumstances surrounding these claims, and in spite of this entered the employ of one of the claimants after leaving the land office and before becoming secretary of the interior; that he ordered these claims to be 'clear listed' for patent without due investigation and that they would have gone to patent if Glavis and others had not intervened." The hearing will probably last several weeks. It is unfortunate that a member of the president's cabinet should thus lay himself open to suspicion, also that an effort should be made to make political and factional capital of the affair. On the other hand, the investigation will disclose conservation facts of interest and value and will determine the government's position once and for all. President Taft is proving himself as staunch a friend of conservation as was President Roosevelt. Men may err in carrying out his policies, but the president's principles are sound and he intends to stand by them. Mr. Glavis and Mr. Pinchot have been dispensed with. Mr. Ballinger himself could be dispensed with, but President Taft intends to see that the policy of conservation shall be continued.

JUDGE KENESAW M. LANDIS, of the United States District Court, has instructed the grand jury to investigate the methods of the so-called "beef trust." He charged the jury to ascertain, if possible, if there is any combination in restraint of trade and control of prices, pointing out that this was an indictable offense under the Sherman anti-trust law, provided the trade so hampered is of interstate nature. Judge Landis is the judge who imposed the million dollar fine against the Standard Oil Company, which fine was later set aside by a higher court. He is one of the most noted jurists of the country and proposes to use his influence and every available power of the law to reduce the high price of living. Judge Landis claims that he is the real instigator of the present probe and that the authorities at Washington took the matter up after he had determined to invoke the aid of the courts in the relief of the consumer.

D. D. K. PEARSONS, the Chicago millionaire, has given \$4,000,000 to various struggling, denominational colleges within the

past few years. He is now almost ninety years old and announces that he will give away the rest of his fortune, to needy denominational colleges, before he dies. He finds great pleasure in this philanthropy and is undoubtedly doing a world of good. Forty-seven colleges have shared his beneficence. He has taken a great interest in southern colleges of late years and has helped several, notable among them being Berea College in Kentucky and Guilford College in North Carolina.

GIFFORD PINCHOT, recently discharged from the post of chief forester of the government, has been selected president of the National Conservation Association to succeed Dr. Charles W. Eliot, for so many years president of Harvard. The association was formed last July for the purpose of helping, through a large individual membership, to put into practical effect the conservation principles declared by the conference of governors at the White House in May, 1908. Dr. Eliot now retires from the presidency, feeling that as Mr. Pinchot is the most notable friend of conservation in the country he should take the active leadership of the association. There is a growing belief that Mr. Pinchot will be even more valuable to conservation outside of public office than he was in office. He is earnest, conscientious and splendidly posted. His removal from office does not mean that conservation is going to lose a friend or governmental support.

THE high and advancing cost of living must inevitably bring about race suicide, according to a noted eastern rabbi, who says: "It has become so that a father of ten or twelve children feels that he has undertaken an impossible luxury. Living conditions, as they are coming to be, are reducing the strength, vitality and fertility of the race." On the other hand, President Rippey, of the Santa Fe Railroad, says American housewives are responsible for much of the high prices and if they would be more sensible the prices would decline and race suicide need not be so imminent. "Most housewives will pay three or four times as much for food done up in fancy packages as they will for the same food without frills," he says. There is merit in the statements of both, but there are other causes and other results which the congressional investigation will disclose.

MISSOURI UNIVERSITY has once more shown itself to be progressive and practical. Announcement is made that the class in home economics will be given practical instruction in nursing, the teacher to bathe and clothe a little baby in the presence of the class of forty young women. The days when colleges taught only book knowledge are rapidly passing, thanks to just such progressive institutions as the one at Columbia. It is an undisputed fact that the lives of scores of babies are lost and hundreds of infants are

blinded or maimed for life by the carelessness of young mothers. Not all the girls of the home economics class who witness the baby demonstration will marry and become mothers; nor will all become professional nurses; but a large proportion will. The others will doubtless pass the practical knowledge along to others and so raise the general standard of proficiency. The education needed today is along just such practical lines, with actual demonstrations as object lessons.

FRANCE has been suffering from the most severe flood in recent history. The river Seine has become a raging torrent, sweeping everything before it, destroying millions of dollars' worth of property and rendering thousands of people homeless. As is usually the case the poor people have been the greater sufferers, but even the best residence sections of Paris have been injured. With its usual promptness the Red Cross Society set to the work of relief and rescue. There never yet was a great catastrophe or calamity but that the charitably inclined people rallied to the relief. It is the one thing to be thankful for in the midst of the dire dread of tragedies.

HONORS continue to be showered on Commander Peary. The Geographical Society of Chicago has presented him with a gold medal "for distinguished service in arctic exploration and the first achievement of the north pole, April 6, 1909." The Royal Geographical Society of London has awarded both Peary and Skipper Bartlett a medal. Bartlett is a British subject and commanded Peary's ship, the Roosevelt, on its arctic journey. He accompanied Peary within one day's journey of the Pole and would have gone on had not Peary ordered him back to keep the trail open and provisions ready for himself on the return journey. Bartlett is a sturdy navigator and entitled to share honors with Peary.

WHEN Theodore Roosevelt was president he ordered the attorney-general to bring action for libel against the Indianapolis News and the New York World on the ground that these papers had libeled himself and President-elect Taft by insinuating that there had been collusion in the acquisition of the Panama canal zone. The action was begun. When the case against the Indianapolis paper came for trial, some months ago, it was promptly dismissed. Last week the indictment against the New York paper was quashed by the federal judge before whom the case was to be heard. This ends the prosecution. The decision is looked on by the newspapers' attorneys as a signal victory for the freedom of the press. It is highly essential that newspapers which tell the truth should be protected. Those which fabricate or invent should suffer. In order to allow the liberty which makes for a more intelligent and efficient press the laws are lenient in this matter. It is better to have freedom of the press and some individuals suffer now and then than it is to have a throttled press and no public discussion of public men and measures.

SAVING ALL THE FEED.

Before grass is available next spring we predict that hay and straw, as well as all other forms of roughage will be so high in price that to feed it out at a profit on the basis of its value will be almost an impossibility if it has to be purchased. The severity of the winter accounts for this mainly, though possibly the slipshod methods employed by many farmers in wasting their corn fodder is also partly to blame. One of our subscribers, Mr. E. L. Vincent, has the following to say concerning the matter of saving rough feed:

On most farms there is a constant loss in feed stuffs. That is, if fed in the state of nature, as most of our hay, stalks and other roughage is on the average farm, the stock cannot, or do not, use up anything like all that is given them. It is a common sight as one passes through the country to see the ground all strewn with butts of corn stalks and the leavings of hay, straw and other grasses which have been picked over and rejected by stock. How to prevent this loss is a thing that may well engage our attention. If the roughage be fed in the barn, the mangers are apt to get clogged. The mass of rejected fodder turns sour in the

course of time and the result is a bad-smelling, unhealthy mess.

We have just as nearly solved this problem on our own farm as we have ever known it to be done, by the use of a gasoline engine and cutter. All the stalks we feed, all the hay, straw and millet we use, everything, in fact, that the cattle are given to eat in this line is passed through the cutter. It is not such a task as might be supposed to do this work. By starting the machinery one may cut up on the big barn floor feed enough to last several days at a time. As this lies on the floor it will gather dampness, especially if the weather be not severely cold, and soften so that the cattle like it better than they do when fed in a natural state. Their mouths are not made sore by the sharp pieces of dry stalks. Altogether we find it a profitable piece of work.

The best part of it is that the loss is reduced to the lowest possible terms. Practically nothing is left in the mangers. Horses will eat their cut hay, straw and millet up slick and clean. The cows will do the same thing.

If there be any doubt of this on the start one may scatter a little grain over the cut feed; and it is a source of satisfaction to watch the cattle as they devour this appetizing mess. Sheep do the same; but for sheep I do not like to cut dry stalks in, particularly if there be some ears of corn on the stalks which pass into the cut mess. I had a number of sheep lose their lambs a few years ago and I made up my mind it was from giving the mother ewes cut corn of this kind.

Any saving we can make in the matter of feeding is well worth looking after. By adopting the plan mentioned here I believe one may keep more stock on the same number of acres than he can by the old method.

Where there is sufficient labor employed to spend the time required in cutting all forms of roughage into short lengths, there is little doubt, but what the operation will pay, viewing the matter from the standpoint of feed saved. The markets of the future will be such as to tempt the farmer to sell a considerable part of his hay because as we understand it there can be but little increase in the amount of hay produced in this country and co-incidental with this there will be an increase in the demand for it outside of the ordinary farm use to which it is put. It means that the farmer must retain for his own feeding the coarser part of the roughage used, in order that he may take advantage of the higher prices for good hay in central markets. We appreciate the fact that at the present time it looks like a waste of labor to the average man to cut into short lengths the various forms of roughage used on the farm, but as said before, the day will come when that practice will be a universal one.

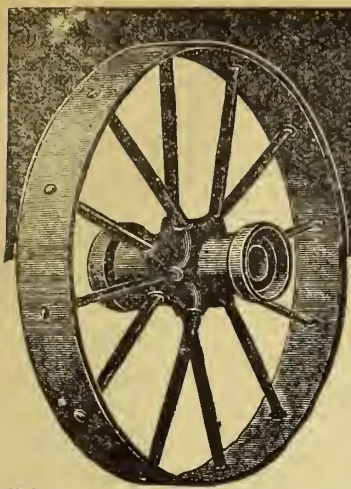
SEEDING CLOVER FOR ONE YEAR.

The following communication has been received from a subscriber at Hawarden, Iowa:

I have thirty acres of cornstalk ground that I intend to put in oats or barley this spring. As this ground is a little worn I desire to seed the small grain to clover, provided it can be demonstrated to me that the clover will enrich the land enough to justify the outlay for seed. I will have to put the field in corn in 1911, so that the clover will have to be plowed under next fall or the following spring. I wish you would discuss this general proposition, because I know that others as well as myself will be interested in it.

It is entirely practicable, and indeed it is highly profitable, to sow clover along with a nurse crop, even though the land has to be plowed in the fall or the following spring, which will be twelve or thirteen months after the clover is seeded. By thorough disking the cornstalk ground in the spring before sowing the oats the chances will be in favor of getting a strong stand of clover. After the grain is cut in July the clover will make a strong stand and if there should happen to be a reasonable supply of moisture it may make a growth of a foot or fifteen inches next fall. It stands to reason that a leguminous growth of that character must greatly benefit the land. It prevents it from being sun-baked and incidentally the clover roots add nitrogen to the soil and in turn their decay liberates just the kind of plant food needed by the following crop of corn.

As to whether the clover should be plowed under in the fall or in the spring, it may be said that much depends upon conditions in general. If there is plenty of time late in the fall, and if the prospect is that there will be more than enough to do in the spring, fall plowing may be advisable, but on the other hand if conditions are such so that there is ample time to do the plowing in the spring, it might be advisable to let the matter go over. Sometimes a growth of a month or six weeks is obtained and all that time the crop is storing plant food in the soil and increasing the humus supply.



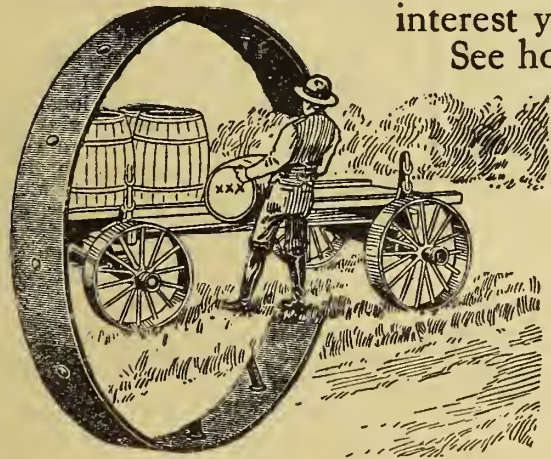
They Cost So Little!

Farmers: You can't afford to do without these Everlasting Empire Steel Wheels and Empire Handy Wagons. Send for catalog. It's a sin to wear yourself out lifting over high wheels any longer.

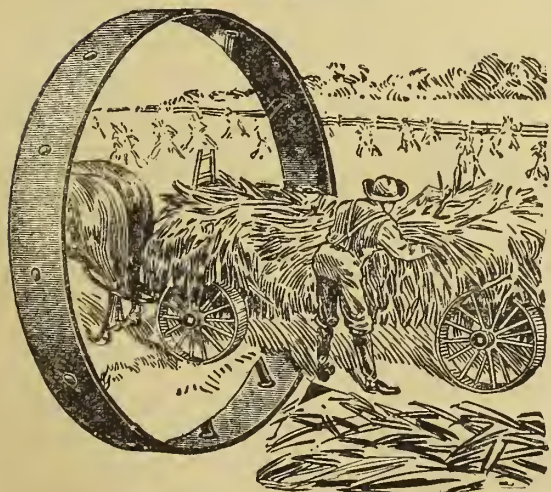
Quit Your Back-Breaking Drudgery! Save Your Wooden Wheels!

See How You
Save Money
Save Yourself
Save Your Team
with
Empire Wheels

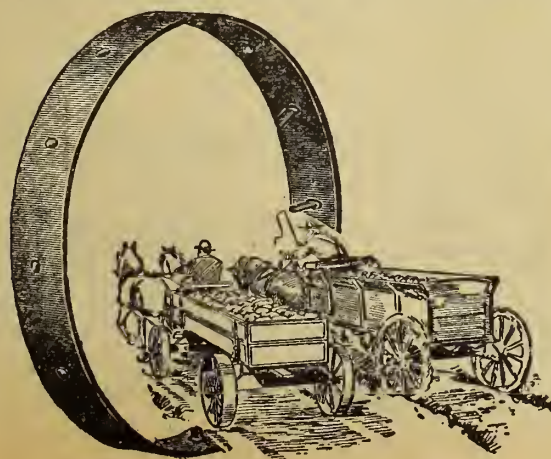
Saves You from
High Lifting



Easy Loading in
the Field



Easy on Your Horses—
Do Not Cut up Your Field



It is positive extravagance to keep wooden wheels on your wagon all the time. You can have the world-beating never-wear-out Empire Steel Wheels, if you own any kind of a farm wagon. These are the reasons. Read our sweeping offer: We have determined to distribute at least three times as many of our wheels among farmers this year as we did last year. We can do it. We have the materials. We have the factory. The farmers want the wheels. We have fixed the lowest possible prices, based on an output for 1910, three times the largest of any year in our history. There's no excuse for killing yourself with the old high wheel loading.

Those who answer this advertisement will get the benefit *now!* Does this interest you? Then clip the coupon below and fill in your name and address. See how little they cost you. Take the aches and pains out of your hauling.

Write for Illustrated Catalog— FREE

You can order Empire Low Steel Wheels separately to put on your old farm wagon.

Write today for our catalog with plain, simple directions how to measure your spokes for just the wheels you need. It costs you nothing to get this handsome book with pictures in colors.

Half the Price of Wooden Wheels

Steel wheels cost you about half the price of standard wooden wheels—to say nothing of the money you pay out for tire-setting and repairs.

The wooden wheels are the first part of your wagon to wear out. Have a set of steel wheels for hard use and thus prolong the life of your wooden wheels. You can change from wood to steel wheels in five minutes.

You don't cut up your fields with Empire Steel Wheels. You don't get stalled—and your horses do pull hundreds of pounds more *with less effort*.

Read what the College of Agriculture Experiment Station, University of Missouri, says: "The broad tires by actual test pull from one-third to one-half lighter than narrow tires, under all conditions of the field."

The report says that the broad tires show to the greatest advantage on muddy roads.

No More Tire Bills

With Empire Steel Wheels you settle your tire bills for all time.

No more cracked hubs, rattly or broken spokes or loose tires!

No more stopping your hauling and racing off to the blacksmith to have your tires cut.

With the Empire wheels your wagon is *always* ready for business—all you can haul. You *can't* overload these wheels on your farm wagon.

We have been making these low steel wheels nearly a quarter of a century, under farm wagons in all parts of the country. We don't know of a dissatisfied user or one who would think of going back to the old high wheels.

No Other Wheel Like the Empire

This is the wheel with spokes driven into the steel rim by hydraulic pressure, both tire and spoke being *cold at the time*.

The spoke is countersunk in the rim so that there is no large spoke head above the surface to interfere with the brake.

At the hub end the spoke is sunk deep and spread out like the head of a nail, and has notches on the sides. It can't ever pull out.

Here is the way an Empire spoke looks in the rim. A part of the rim is cut away to show you:



And here's the way the Empire spoke looks in the hub:



In other metal wheels the spoke is at white welding heat when it is put into the rim. Of course the spoke contracts or grows smaller as it cools, and does not fill up the hole. When the head wears off the spoke is loosened and comes out. No such trouble ever occurs with the Empire.

A Money Saver! Empire Wheels on Empire Wagon

The best combination for money saving and satisfaction in farm hauling is Empire low steel wheels on the Empire Handy Wagon.

We build twenty styles of Empire Handy Wagons—a wagon for every purpose—wagons that will carry from one to twenty tons—wagons for general farm use—logging—lumber hauling—combination farm and logging—orchard trucks, etc. There is nothing in hauling that you can't do with an Empire.

You can put a broad platform over the wheels and double your load.

You can make the shortest possible turns with cut-under wheels—take your Empire through woods, orchards, etc., where the old-style high wheeled wagon can't possibly go.

No More Back-Breaking Lifts

You can load your Low Empire in half the time with half the back-breaking work. *It's the last two feet of the lift that hurts.* You cut off the last two feet by using the Empire. Remember you have to be satisfied or you don't pay.

We will ship you either a set of Empire Wheels for your old wagon or a new Handy Wagon simply on your order. *No money down* unless you wish.

30 Days' Free Trial

Try the wheels or the wagon 30 days—every way you think of. Then if they have not made good on *every* claim send them back to us.

We will pay the freight both ways. You won't be out a cent! Can we make a fairer proposition to you?

Empire Mfg. Co., Box 85, Quincy, Ill.

Send me your Empire wheel and wagon book. This request puts me under no obligation to buy.

Name _____

P. O. _____ State _____

R. R. No. _____



Empire Mfg. Co., Box 85, Quincy, Ill.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

An Iowa subscriber, Mr. William J. Hewitt, enters the "big-ear" contest. When thoroughly dry his ear (that is the ear of corn) weighed one and one-half pounds; it is twelve inches long, eight inches in circumference, has twenty rows, and produced 1,140 kernels. I would like to ask some of the corn experts to figure up the yield of an acre if every hill had three stalks in it and every stalk produced an ear the size of Mr. Hewitt's.

If there are any who still doubt the possibility of having a real winter up in this country, I wish such persons could have spent a day and a night with me last week. For twenty-four hours we made ourselves at home in a railroad coach and looked out upon banks and more banks of the "beautiful." We actually are having a real winter.

The Red Letter Subscription Offer that was announced some time ago by this paper is gaining rapidly in popularity, and that is no surprise because it is a remarkable offer. It includes The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. It will be noticed that the combination covers every department of the farm. The six are being offered at the small sum of \$1.50.

Some one is borrowing trouble from the fact that there are more vegetarians running around loose now than at any time in the past. They argue that if these increase too rapidly there will be a scarcity of hides and as a consequence the price of shoes will go up. We are wondering just how this will affect the price of corn shovels. We use many of them in our section.

The other day I saw a man hauling home an old planter, one I know will not plant corn right. The man excused his better buying judgment by saying he could not afford to buy new. Under no circumstances can a man afford to use an uncertain planter.

One Kansas farmer, so I read the other evening, says hired help becomes more expensive every year. A few years ago, he says, he only had to furnish feed for his horse and a shed for his buggy, but now he complains that he not only must have a better shed for the hired man's auto, but must furnish him with gasoline. He says it is not in the bargain that

he furnishes gasoline, but the man "helps himself."

A dog and an evergreen will not grow up together. If the dog doesn't die young the evergreen does. Evergreens must be fenced away from dogs, or vice versa, solely for the sake of the evergreens.

A few years ago I heard a man say he raised hogs enough so he had a load to take to market when there was nothing else to do. If I was now rais-

ing hogs on that plan, I would try to be perpetually out of everything else to do, and the road between my place and town would be one continuous squeal.

A frozen pump is of no more service than no pump at all. It is always easier to prevent freezing than to fix up afterwards.

Nicknaming each member of the family may be one way of showing friendly familiarity, but it is a poor way. The nicknamed boy, when he becomes of age, is scarcely recognized for awhile by his true signature.

The governor of Iowa wants a narrower highway. His idea is to save

sound whipping if he ran out to the road and made all sorts of unfriendly noises and motions when a team went by, but let the dog do it, and—well—it is usually all right and the dog is not even called back.

Set this down as an old-fashioned winter, whatever that is. The appetite of all stock is taking a lot of feed, yet the even temperature, even though cold, is not gaunting up the cattle like sudden changes to either extreme. Now's the time for winter, so let's not complain.

A farmer has just left here to keep hotel in a small city. He has grown tired of farming and the carpentering he did at odd times, and I prophesy he will be doubly tired of hotel keeping within a year. High prices for all eatables, with no material increase in rates for board, is grinding the hotel and restaurant keeper between two mill stones that grind exceedingly fine.

It is surprising how much longer a pitchfork handle will last if it is always kept under cover when not in use. The fork always found sticking in the stack is also rough and weatherbeaten to the hands. The deterioration in farm machinery that stands always in the weather is proportionally great.

Near neighbors are usually a blessing or a curse, according as they care for their stock and poultry. Give me anything to contend with but a near neighbor who will not take care of his stock and who raises a large drove of turkeys. He raises them for market and collects the money, but you feed them.

Turkeys were turkeys this year, and no mistake. I know of birds that brought \$5 and over at the local shipper's. When the producer gets that much, how much must the consumer have to pay, after about forty-eleven middlemen get theirs? It seems to me the middlemen are getting more numerous between the producer and consumer, each year, and each year they want more for the little they do. What do you think about it?

Buying farm lands is no longer a speculation. It is a safe investment, and a great many are getting in on the ground floor.

The old idea, that when a young man has been to college long enough to learn the college war whoop, he must leave the farm and try to get a position in town, is passing away. The farm is a good place for any worker to whoop it up, and it has been proved that many college-bred men really know enough to make good farmers.

Farmers are being urged to try to raise bigger crops and more beef, pork, dairy products and other good things to eat in order to keep the dear people from starving to death. We are willing and wish the dear people a long life and a hearty appetite.

Check day to the patrons of a creamery is about the same as pay day is to the railroad hand. There is considerable difference, however, between the bossys of the dairyman and the bosses of the railroad.

I know a very successful farmer who is a staunch believer in the fresh-air treatment for all kinds of ailing stock. He says that a horse that had distemper in the winter will get well much quicker if turned out in the open and compelled to eat off the ground. Of course, this only applies in clear weather. His theory is that by eating off the ground the jaws are moved freely and the position of the head cleans the nasal chambers much quicker than if they are allowed to stand in the stable.

As the title of a new song let's have "I love my butterine, but oh you dairy butter and fresh laid eggs, how dear you are!"

A Missouri subscriber, Mr. William H. Carter, gives his plan of putting a ring in a bull's nose. He first secures the bull in a dehorning chute or in a stanchion and then makes a hole in the nose with a prong of a pitchfork. He then removes the spout from an old oil can, cuts the thread end off, inserts one end of the ring in the spout



Madison Sir Ormsby, whose dam, Duchess Ormsby 3d's Butter Girl, grandam and great-grandam average 4.88 per cent fat, making him the richest butter-bred bull of the breed. Many of the cows in the Gay Farm dispersion sale in Madison, Wis., on February 19th, have been bred to this sire. See page 74 and write for catalog.

One of my neighbors has several children and the children have several bantam hens. It seems that those bantams were all that did any egg laying lately, but they laid to make up for all the rest. The children sent ten dozen bantam eggs to town by "Dad," and this is the way "Dad" got full price for them: Before taking the eggs in he asked the groceryman if he couldn't afford to pay more for big eggs than

high-priced land, turning it back to the farm owners to cultivate. Narrow roads are all right in some places and some places they are not. I would not like to stand for a general narrowing of highways, whether or no.

What are you making money for? Is it to lay up or loan to others for the satisfaction of seeing it accumulate, or is it to spend for the things that go to make life worth living? There is wisdom in economy until it becomes economy run mad.

Any man would take his boy out behind the woodshed and give him a

A LEVERLESS RIDING CULTIVATOR

Here's what every farmer has been longing for—a Riding Cultivator with all of the good points of the best walking cultivator you ever saw and with all the bad points and hard work left out.

Study carefully the illustration below. Note that in the "Perfection" there are no confusing levers, chains, trips, gewgaws or contraptions of any kind. You don't have to be an engineer or an acrobat to run it. It's as simple as ABC—and is as effective and easy to work as it is simple.

On the "Perfection" the seat does not go down as the gangs come up, so there is never any danger of knocking your teeth out with your knees from the seat "see-sawing" up and down, as it does on other leverless cultivators. Our simple method of balancing is

what makes it possible to use the "Perfection" as a walking cultivator at will. Simply turn forward the seat when you want to walk.

The perfect balance of the "Perfection" with the seat steady makes it "easy as loafing" to jump the stray hills and duck in and out from the row, cutting out every weed. Just a touch of the handles swings the shovels where you want them. The stirrups for the feet enable you to work as deep or as shallow as you please. Every farmer who has tried this cultivator says: "It's the best and handiest cultivator ever made." The

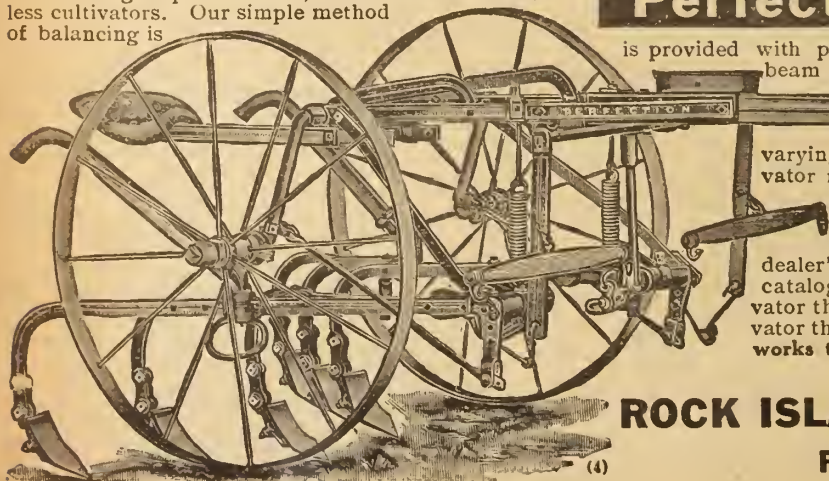
Rock Island "Perfection" Cultivator

is provided with pendant hitch—draft applied direct to arm of beam couplings, and shovels will always penetrate to an even depth, even in the hardest soil. Axles are equipped with dust proof boxes, and telescope to give varying widths of tread. Almost any style cultivator rigs can be furnished. Simply say what you want and you can have it. The leading dealer in each locality is our agent.

Be sure to see the "Perfection" at your dealer's next time you are in town. Or send for catalog and nearest dealer's name. Own a cultivator that makes the day's work lighter. A cultivator that is not only "Perfection" in name, but that works to perfection!

ROCK ISLAND PLOW COMPANY

Rock Island, Ill.



and then shoves it through. I can see at a glance that that is a much better plan than trying to work the ring through a small hole without any "guide."

One of our neighbors believes he has worked out a satisfactory solution of the dog question. He would tax the owner of every dog one dollar per year for the privilege of keeping it. Then if any damage were done he would have an appraising committee place an estimate upon the value of the animals killed or injured and award the unfortunate man two-thirds of his losses. This, he thinks would accomplish two things—do away with many mongrels or curs and reimburse sheep and swine owners for losses sustained. If any one has a better plan let's have it.

The stock of the National Dairy Show Association is held by sixty-one stockholders who live in thirteen different states. These are the "original thirteen states"—in the business of dairying.

The recent avalanche of snow put the kibosh on corn husking in the northern part of the corn belt. At present it looks as though there will be corn husking at both ends of the working season of 1910.

Where no green feed is at hand for poultry a pretty good substitute can be made by taking a small quantity of grain and wetting it and allowing it to stand in a warm place until it sprouts. The tender shoots are pie to the biddies when the winter season is on.

Some co-operative creameries are beginning to market eggs in the same way that they do butter. That is the farmers bring their eggs as often as they do their milk, thus insuring a strictly fresh article. The eggs are shipped as often as possible and the farmers are paid in cash at the same time that the butter checks are given out. Whether this will prove as satisfactory as the modern methods of handling dairy products remains to be seen.

A very good ventilator for the hen house can be quickly made by using ordinary stove pipe, allowing it to extend within about eighteen inches of the floor and using a galvanized iron joint on the roof. This may not be the best ventilator made, but it does good work and is easily put up by any one.

The state of Iowa is making a determined fight against consumption. It seems that the only remedy and about the only preventive of this terrible disease is fresh air and the whole problem at present is how to admit the fresh air that is knocking at our doors in such a manner as to cure without killing. It seems rather strange that a disease that can be kept away by breathing pure air finds so many victims among farmers.

There is always trouble ahead when Jack Frost begins to hit the water pipe.

At present there is a great deal of noise being made about high-priced living. This is especially true in the cities, the farmers seem to be willing "to let well enough alone."

The farmers who are trying to learn how to feed the soil in order to make it produce the best crops are the ones who will raise the most feed for man and beast in the future.

The women folks are trying to make it appear that only two meals are necessary these short days, but I contend that while the days are short the nights are correspondingly long, and anyone with a clear conscience can work up about as decent an appetite by sleeping as he can by working. I live twenty-four hours each day now, the same as in the summer.

TANKAGE FOR BROOD SOWS.

A subscriber at Mitchellville, Iowa, sends the following communication:

I am feeding twenty brood sows and they are rather thin at the present time. I am using tankage and would like to know if it is liable to produce any bad results. Kindly give me some advice on this subject and give the best method of feeding tankage to sows.

Brood sows ought to do well on corn

and tankage, and as the sows are thin in this particular instance, there is no reason why they should not be fed somewhat liberally until farrowing time. The tankage may be fed separately from the corn, in a dry condition, or if the corn is shelled it would be better to mix the corn and the tankage together. We have had exceedingly satisfactory results by using a few oats in addition to the corn and tankage. In that case the oats and tankage are mixed and fed together. The mixture is eaten somewhat slowly and in our opinion there is no food that is more valuable for brood sows than oats.

IMPROVING THE HUMAN CROP.

In an address before the Kansas State Board of Agriculture, Professor McKeever, of the Kansas State Agricultural College propounded a query which is conducive to thought. "We have scientifically worked out cards for scoring cows and pigs and chickens, but how about scoring young men and young women?" he inquired. "Just now we read that government experts are constantly at work patrolling the sea coast in order to make a careful study of the antics of the clam, the mackerel and the 'bachelor seal,' but there is no publicly supported effort to observe scientifically the behavior of little children playing around the family fireside. We have scholarly dissertations on how to develop kindness and good will in the recreant mule and how to bring up in a successful manner the orphan calf, but those who have in charge the home development of the human offspring must grope in the dark for a successful way."

The thought is in line with a recent incident and magazine comment thereon. The magazine writer depicts the plight of a little mother, not yet twenty-five years old, who found herself afflicted with consumption. Her three little girls, once a joy in her life, became a burden to her. It was "Mama, Mama" all day long. The little mother had red spots on her cheeks and a slight dry cough. One day when dragging herself around, forcing her weary body to work, she felt a slight but sharp pain in her chest, her head grew dizzy and suddenly her mouth filled with blood. After the hemorrhage there was no doubt, the little mother was a victim of consumption. Here is the comment of the magazine, thrown into fable form:

Now she wrote to the state board of health and said: "I am told that consumption in its early stages can be cured by outdoor life, continued rest, and plenty of plain good food. I do not want to die. I want to live and raise my children to make them good citizens. Where can I go to get well?" The reply was: "The great Christian state of Indiana had not yet risen to the mighty economy of saving the lives of little mothers from consumption. At present, the only place where you can go is a grave. However, the state will care for your children in an orphan asylum after you are dead, and then in a few years a special officer will be paid to find a home for them. But save your life—never." "That is a cranky idea," for a member on the floor of the sixty-fifth assembly said so. "Besides," said he, "it isn't business; the state can't afford it." So the little mother died of the preventable and curable disease, the home was broken up and the children were taken to the orphan asylum.

A big fat hog one morning found he had a pain in his belly. He squealed loudly and the farmer came out of his house to see what was the matter. "He's got the hog cholera," said the hired man. So the farmer telegraphed Secretary Wilson, of the United States Agricultural Department (who said the other day he had 2,000 experts in animal and plant diseases), and the reply was—"Cert, I'll send you a man right away." Sure enough the man came. He said he was a D. V. S. and he was, too. He had a government syringe and a bottle of government medicine in his handbag, and he went for the hog. It got well. It wasn't cranky for the government to do this, and it could afford the expense, for the hog could be turned into ham, sausage, lard and bacon.

Anybody, even a fool, can see it would be cranky for the state to save the life of a little mother, and it could not afford it either.

Moral: Be a hog and be worth saving.

There is no desire to use the plea of Professor McKeever or the fable of the magazine writer as an argument to abate in the smallest degree the work being carried on by nation or state in investigating and bettering live stock and agronomic conditions. But has not the time arrived when the greatest crop of all, the crop of humanity, should be bettered?

Fortunately, in some respects the movement for which Professor McKeever pleads has already begun.

Children are being scored by means of improved country schools. They are being taught the things their hands find to do every day of their life. They are being trained as farmers and housekeepers, are being taught how to farm and how to cook as well as how to bound Afghanistan and figure the distance from the earth to the moon. Rural schools are being made country schools, to teach country things to country folks. The beginning was long delayed, but it has come at last. Even the appeal of the magazine writer has been answered in at least two states of the grain belt. Kansas and Iowa hire lecturers to travel about the two states telling the people how to avoid and how to check and cure consumption at home. Several states of the grain belt have state hospitals for the treatment of tuberculosis. Iowa has a new law under which it is possible for separate counties to erect tuberculosis hospitals at the expense of the taxpayers and tuberculosis patients to be treated, either at their own or the county's expense. Some attention is being paid to humanity after all.

But the movement has only begun; much remains to be done. As it grows it will result in a stronger bond of sympathy between those who suffer and those who sympathize, those who need and those who have. Live stock conditions generally have been improved simply because people have investigated. Kansas City has even started a horse Christmas, distributing blankets and bags of oats to needy horses in the true Christmas gift spirit. The day is not far distant when people will be moved to be as thoughtful of the needs of men and women as they are today of dumb brutes. Because the movement has been so long delayed is no reason why it will be slow once the beginning has been made. And the beginning is already being made in that most progressive and prosperous section of the nation; the grain belt.

60 MILLION HOGS

In the United States. Their present value depends upon their past and present health. Their future value on future health. The value of your own hogs is determined the same way. Hog raisers are getting a good round price for their product. The corn they eat has good value. Both of these are substantial reasons why hog owners should use

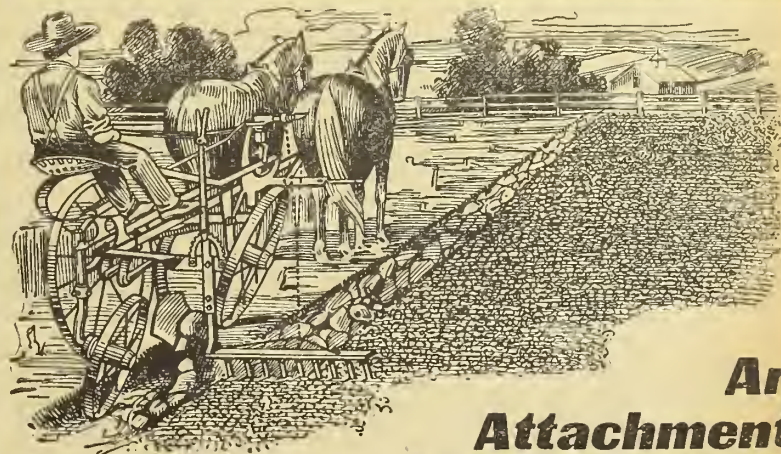
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An Attachment That Harrows While You Plow

The Champion Pulverizer is an attachment for riding plows which was invented by a farmer who wanted to save time in the Spring and Fall of the year when time is very valuable to the farmer, and also to do better harrowing by doing it at the right time.

The best time to harrow is right after the plow when the soil is soft and moist, and where the Champion Pulverizer is used, the surface of the soil is so thoroughly pulverized that all the open spaces are closed and the moisture is kept beneath the surface instead of being allowed to evaporate as is the case when the ordinary method of harrowing is used. Because of this retained moisture, any field where this attachment is used will produce better crops besides saving all the time ordinarily used in harrowing.

It Will Save Its Cost in Two Days' Time

It can be attached to any sulky or gang plow in ten minutes' time, does not add any side draft and can be operated by anyone who can operate the plow.

The blades are made of soft center, plow steel and scour perfectly. It is made in two sizes. No. 1 has five blades and is intended for use on sulky plows. No. 2 has nine blades and is intended for use on gang plows.

When size No. 2 is used on a sulky plow it does the work of two harrowings as it pulverizes each furrow twice. See illustration

Thousands of these Pulverizers will be used this Spring by farmers who used them last year and who, through their use, saved several days' time.

Write today for illustrated circular, prices and testimonials from users.

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ARE YOU SATISFIED WITH A 20 ACRE CROP FROM A 40 ACRE FARM?

YOU know it costs as much in time, labor, seed and implements to raise a poor crop as it does to raise a good one. You know also that unless your land is kept constantly supplied with lime, nitrogen and phosphates and the ingredients of barnyard manure it becomes worn out and loses its fertility.

You know further that it costs more and trebles your labor to spread manure by hand than it does to use a well-made manure spreader.

Maybe you don't know that one load of manure evenly spread by a mechanical spreader is worth four loads scattered by hand—

And that your crop, whether rotation or continuous, will be increased from 20 to 40 per cent if you use an

I. H. C. Manure Spreader

Made in three styles as follows:

The Corn King, Return-Apron Spreader.

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I. H. C. spreaders are made of the best material—wood and steel. They have powerful steel frames and steel-bound boxes, which damp manure cannot rot.

I. H. C. spreaders are easily drawn. They can be adjusted to spread a thin or heavy coat with equal evenness.

I. H. C. spreaders are so simple in operation that a boy can do the work which used to require a strong man.

An I. H. C. spreader will save you in time and labor more than enough to pay for itself in one season.

Your increased income from better crops will be clear profit. Scientific experiment has proved that this profit will vary from \$4.00 to \$20.00 per acre.

You cannot afford to be a half-crop farmer and there is no reason why you should be one.

An I. H. C. Spreader will give you the full return from your land, whatever the size of your farm.

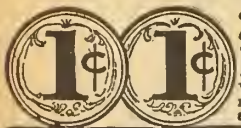
Call on our agent in your town and talk the spreader over with him, or address us directly for catalogue and other information.

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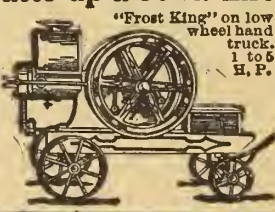
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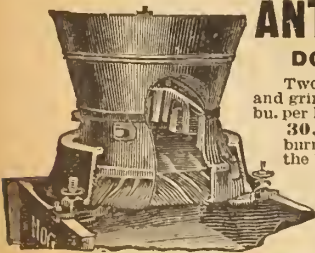


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What's more, The Lauson "Frost King" does not require a lot of monkeying to make it start—it is the easy starting engine. The Lauson is absolutely frost-proof and is no more affected by the cold of winter than by the heat of summer. It was the first Open Jacket, Frost-Proof Engine manufactured in the Central West. Lauson Engines are absolutely safe, having no exposed flame to endanger barns or other buildings and are in every way constructed to comply with rules of the Board of Fire Underwriters. Send us your dealer's name, state power required, and let us send you catalog and prices free. 2 The John Lauson Mfg. Co. 302 Northwest St. New Holstein, Wis.



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30,000 Bu. with one set of burrs.—I have ground with one set of burrs, more than 30,000 bushels of corn with my Mogul No. 1 Mill, and the burrs are still in good condition.—F. P. Craig, Mt. Carroll, Ill. Two complete mills in one; has double the capacity and double the durability. Absolutely no friction or gearing. Will earn cost price in three days. The largest ears of corn to these mills are like popcorn to other mills. We manufacture the most durable and fastest grinding line of mills sold, including our Famous Iowa No. 2 for \$12.50. Send for our free catalog.

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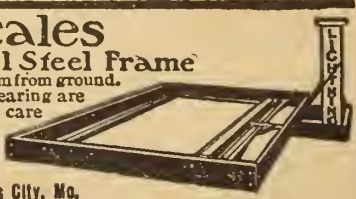
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KANSAS CITY HAY PRESS CO.,

126 Mill St. Kansas City, Mo.



WHEAT AND CHAFF

BY E. N. BAILEY

I like to see an autoist
Adjust his spectacles and twist
Himself into that posture grand
Assumed when he starts overland
a mile.

And then to watch him crawling in
Between the wheels as black as sin
To fix the compos mentis spring,
And tie the dudad with a string
meanwhile.

I love to see him cock his ear
Just when the thing declines to steer,
And watch his corrugated brow
When telling me me just when and how
it quits.

Nothing contributes so much to promote the art of ambidexterity in a fat man as to have both suspenders break at the same time.

Mr. Roosevelt is introducing American farm machinery into Africa. His lion gun is a "check roar."

The less agitation in any country, the more contentment; the less disquiet, the more prosperity.

"It is more blessed to give than to receive." This is especially applicable in regard to giving advice.

Lotteries are not countenanced in the United States, unless it be those land lotteries that the government operates.

To Break a Calf to Drink.

Some people think it a great task to teach the calf to drink, but it is as simple as pulling turnips when you get the hang of it. Take your pail of milk and go down to the calf pen whistling some soft, plaintive air. Calves are very fond of music. After one or two airs you will be in a proper



frame of mind to begin work. Much depends on the frame of mind, and if it is not right it should be framed over at the start. Now get into the pen carefully. Don't jump in with a war-whoop—you may excite the calf. Take the calf gently by the nape of the neck and the tail and let it cavort around you for ten minutes or until it gets dizzy, and then watch your chance and jump astride its neck. If the calf is tall enough it will pitch you over the fence or into a corner; but never mind; it is only in play and has no evil intentions. You may have to make several attempts before you succeed in getting a firm hold of it and get it back in a corner, but when you are certain that you can hold it, the next thing will be to get off and get the pail. Set this where you can reach it from the corner and then chase the calf down again. When you get it tired out, better whistle another tune or two. This will enable you to maintain your nonchalance and that is one of the most valuable assets to have while giving the calf its initiatory drink. Now keep cool and if it is impossible to keep cool, keep as cool as you can. Take the pail in your left hand and with the right hand bend the calf's neck down so that its nose will just reach the milk without covering its nostrils. You can't do this with one hand, so set the milk down and use both hands. It is natural



for a calf to reach up for its sustenance, so you will have to fight nature as well as the calf, but keep cool and bend its head down. The calf will be carrying you from one corner of the pen to the other all this time, but that makes no difference, as he has tipped the milk over by this time anyhow. Now get some more milk and with the pail held firmly to its mouth with both hands, catch the calf by the nose and bear down on top of its head with both hands, holding the calf by the tail with one hand and keep hold of the fence with both hands. Slip your

fingers in the calf's mouth and with the other hand pour a few drops of milk between your fingers, letting it slowly percolate down its throat, while you sit astride of it and hold up one hind foot and the opposite forward one in each hand. This will prevent it from kicking. Don't let go of anything, but grab something else at each opportunity.

The calf will now blow a pint of milk in your face, but keep your temper or such parts of it as you consider worth saving. Above all, keep in the corner of the pen with the calf's head pointed the other way. Hold the calf gently but firmly; don't let it see any hesitancy on your part; you will see none on the part of the calf. Keep its mouth well moistened with milk all the time. The calf will attend to moistening everything else. If it refuses to swallow, rub its throat gently with the other hand making its gullet purr if possible. Keep cool and whistle a tune when you have time. Should it still refuse to swallow, shove its head to the bottom of the pail and with your strength hold it there. You can't drown it if you try, and of course you will, but just as you are looking for its dying gasp it will make another twist and fill your collar with dutch cheese and land you in the opposite corner of the pen again.

Now use your nonchalance if you have it with you and sail in. Your chances are still even or better. Take any place that will hold; now catch as catch can, break the calf's neck in bending it down if possible, but you can't do it, for it is still as active as ever. Be gentle and firm, catch it by the legs and throw it against the pen three or four times, but don't lose your temper. When you have jerked it three miles and are looking for its last gasp it will begin to drink, and the next time you go to feed it, it will put itself outside of a pail of milk faster than a full grown horse will.

By observing these rules strictly you will never have the least difficulty in teaching any calf to drink, and they are all exactly alike and some of them a great deal more so. After a calf once learns to drink it is very seldom that he ever forgets how, and after a man once teaches one to drink he is not liable to forget a great deal about it either.

It is much easier to teach a man to drink than it is a calf at times.

A Will and a Way.

A little slip of a girl bullt like a wasp will marry a great, big, two-fisted lummux with feet like a ham and a head as big as a horse, and in less than a year she will wind him around her finger like a hank of floss and make him kowtow like a boot-black before a Chinese Mandarin. He has strength enough to throw a cow over a barn, but she has will power, ambition, and energy enough to run a church, half the charitable institutions and societies in the town and a battleship to boot if it were necessary.

Can You Can a Knothole?

The photographer has succeeded in putting a market value on shadows, the photograph has bottled the echo and given it commercial value, the butchers have utilized the squeal of the hog and the curl in its tail, and about all that is left in the field of science that has not been commercialized is the canned knothole and the storage of heat so it can be corked up in August and tapped in the winter when "Boreas" comes down from Medicine Hat with his tail rolled over his back and his hind leg kicking apertures in the atmosphere.

The Poet Puzzled.

An agricultural poet has a September poem in which he advises the farm to "shock his fields of rye." As the rye crop ripens and is cut in July and usually thrashed prior to August first, would it not be better to put off shocking it for another year? Or the rhyme might be changed so as to not

use "shock his fields of rye," and make it jingle just as nicely by writing it "Talks his spels off spry," or "Hawks his meals off dry," or, "Docks his veals off shy." This would answer just as well and keep history straight.

To Keep a Hired Man.

Some farmers have a lot of trouble in keeping a hired man throughout the season, but they do not manage right. First, select your man just as you would select a rooster, but don't pay so much attention to his comb or his plumage. Get a long one, as his victuals will have farther to go and will last longer; it is also a help in getting over a barbed wire fence quick when the bull gets after him, and he can sleep with his feet out of the window. Now feed him all he wants for a day or two and don't ask him to do anything. If there is a ball game take him to it and let him stay in town over night. Don't ask him to do anything that you can do yourself and if he should be determined to work tell him to go out in the shade and feed the hens.

After a couple of months you can set him to doing light work if you let him have a horse and carriage every night to drive to town, and you can afford to do that in order to keep him. If he should begin to get uneasy, go and hire the prettiest girl in the neighborhood to keep him company in his rides to town, raise his wages each week, and have your wife do all his washing and mending.

The hired girl should be taught to sing to him when he is lonesome; nothing tends to relieve the tedium of a hired man like music from a girl who is a first-class warbler. If he gets tired of the hired girl get another, and have the schoolma'am board at your house. There is no trouble in keeping a hired man if you don't insist on his working all the time.

The Guinea Fowl.

Poets sing the praise of the American hen and go wild over the points of excellence of the American rooster. Agricultural colleges instruct their pupils in judging poultry and columns are filled with their reports, but there is a bird of speckled ancestry, meek and lowly, though noisy; that outshines them all. It is the guinea fowl and especially the guinea rooster. You never see him waiting, watching, perking his head waiting for the old hen to lay, and prompt him when to cheer as the curtain rises, not much. The guinea hen lays an egg every day rain or shine, but she don't celebrate the event with any special paeans of praise or grandstand eloquence that is noticeable. She is a merry-hearted bird, as with her crop full of shingle nails and a throat filled with dimisemiquavers, she pours out her soul in blythesome song, and when she is not laying eggs she celebrates all the time.

The guinea rooster awakes at ten minutes past three and begins to yell at once. He yells when the old lady lays an egg and screams when she don't. He screeches when she sets and howls when she weans the brood, but he is modest and don't assume to be the chairman of the central committee, the head of the union, or boss of the convention. He digs right in for all, helps support the family and makes himself generally useful. He acknowledges the co-partnership and willingly becomes one of the parties of the first part. He scares away tramps, hawks, visitors, and tax collectors, stray dogs, cats, rats and burglars, and while the dunghill rooster is priming himself to crow or stops to get breath between crows, old "speckle-bob" is singing his "potrack," "pot-rack," in a key six octaves higher and never misses a note or stops to get breath. Where the farmer has no windmill or automobile the guinea fowl is a great antidote for ennui—no one ever gets lonesome with a flock of guinea fowls on the farm.

Two guinea eggs are ample for an Easter Sunday repast and all that the strongest stomach will require, and perhaps more. For egg nog they are elegant, as it takes only one egg to six nogs and the effect is admirable.

The plebeian hen and her lord and master have attracted the attention of the world, but the guinea hen when beheaded and stuffed with prairie grass sells for western prairie chicken at

three dollars per in the money centers of the esthetic East, and when cut up with a circular saw and parboiled a couple of days in concentrated lye is said to be toothsome and to have that peculiar wild flavor so much desired by epicures and people with tape-worms.

Guinea fowl never have roup, botts, hernia, appendicitis or goiter, they can live on clothespins, copper rivets, shoe pegs, or hickory nuts, and you shoot them on the wing like you do wood pigeons. They have a checkered career in this climate, with red face trimmings, and a topknot like a crushed strawberry. They are so tough that nothing reasonable can kill them, and when a flock is sold from a farm there is a vacancy like that in a country schoolhouse when the teacher dies.

The farmer who doesn't keep mules or peacocks to sing to him ought to have a few guinea fowls to break the monotony.

Send the Boy to College.

The progressive farmer sends his boy and girl to the agricultural college. They may come home wearing high collars and tailor-made suits, but they will also have some "high" knowledge that if put into practical use will bring high prices for the farm products, and no matter about the high collars, if they breed stock that suits and make butter that suits the farmer will be better suited himself in less than two years. The college-bred boy and girl can grade up the hogs, the horses, the cattle, sheep and chickens; the hog will "root" the mortgage off the farm, or the chickens will "lay" it off in a short time; \$300 horses, \$150 steers, and \$10 chickens will take the place of the scrubs. These were unknown to our forefathers. The boy who goes to the agricultural college for a term or two is liable to bring in better returns for the money expended than anything else the farmer could invest in.

Alfalfa Honey.

Alfalfa raisers find it to their advantage to have a few stands of bees. The original cost is slight and the bees provide their own food, go after the raw material for the manufacture of honey, demand but slight attention and make such bountiful returns. Bee culture has come to be a valuable "side line" for the farm. As blooms are to be found in alfalfa districts every day from early May to late October, the bees have a constant opportunity for service.

Alfalfa honey is white and clear, in an extremely delicate comb, has a delicious flavor, and an aroma that is delightful. One authentic report from a western Kansas county is of a single hive that contained nearly two hundred pounds, and of another having ninety-six pounds. The owner of these had twenty-five acres of alfalfa which in one year yielded him over one hundred tons of choice hay, besides the honey. The next year he increased his apiary to fifty stands.

While the average yield per hive elsewhere varies from fifteen to thirty pounds, the average in the alfalfa-growing territory is far higher. Thus the financial returns of alfalfa may be greatly increased and in some instances doubled by having, say, two colonies of bees for each acre. Or, if only part of the alfalfa raisers in a neighborhood kept bees, this ratio could be doubled, or trebled by those who do. Unlike other trespassers on neighbor's fields the bees do the neighbors a distinct favor, by fertilizing their alfalfa.—From Coburn's "The Book of Alfalfa."

In 1840 the New England states produced 8,441,000 pounds of wool. In 1908 the production had dwindled to 8,003,750 pounds. The enterprising Yankees these latter days find, says a Kansas editor, that it pays better to shear their fellow men than to shear sheep.

An Illinois farmer who had been transacting business in town started to drive home and was obsessed by the idea that he had forgotten something. When he had gone three miles from town he remembered what it was and turned back. He had left his wife in town.



Let Your Boy Grow Up Out in the Union Pacific Country—California

Make your future home where life's a pleasure. "California" is a Spanish name that means *next door to Paradise*.

The explorers who named it did so out of respect for its climate—its sunshine—its fruit—its flowers—it loveliness in every way. Opportunities are thick on every hand in this charming Pacific Coast Country. Reached by

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Let me send you some of our illustrated booklets describing and picturing the region adjoining the "Road of a Thousand Wonders" and quickly reached by "The Safe Road to Travel."

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Value boosted—price dropped—on the spreader that has led them all in quality for 17 years—that's your opportunity this season. We jump years ahead again, with 19 improved features—all found on no other spreader made. Yet, with increased facilities and the largest output in the business, we slash prices while increasing values. Others have always imitated the old famous "American" as closely as they dare—even imitated the name of our machines—that's why we now call it "Detroit-American." But don't be blinded by claims—get the books and compare. Note our offers—

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Get our proposition before you buy—see why others are getting excited, making extravagant promises and harping on price, with little to say about construction. But do they even beat these prices with their makeshifts? We deliver to you, freight prepaid, in Michigan, \$83.50; in Indiana or Ohio, \$85.00; in Illinois, \$86.50; in Wisconsin, Iowa, Minnesota or Missouri, \$90.00; and these figures are for a spreader that is better than any one thought a spreader could be—the improved—

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Made in all sizes. More steel used than in any other spreader; cylinder all steel; steel rake and end gate; simplest feed—6 changes made from seat, the only direct chain drive—no gears; lightest in draft—all together 19 special features.

Free Books—The best published on value of manure; how to spread, etc., and how to buy at the right prices on the right terms. Shows and prices the original Tongueless Disc and the finest line of Cultivators too. Send coupon or postal today.

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Then, if you want to keep it, pay me my bedrock, factory price—on easy terms. I think you'll want it for keeps when you know how fast it makes money by giving you clean, graded seed to plant and sell. One means full crops—necessary when land is so high; the other means top prices when you sell. MY FREE BOOK, No. 124, will tell you all about it. Send your name and address, now, so I can make you my remarkable offer. Ask for Book No. 124. Use nearest address. Manson Campbell, President, THE MANSON CAMPBELL CO., Detroit, Mich.; Portland, Ore.; Kansas City, Mo.; St. Paul, Minn.

If you keep it—take a year to pay me.

GET FREE BOOK NO. 124

What Makes a Successful State Fair

By J. K. Dickirson, Secretary Illinois State Board of Agriculture

THERE are many things that might enter into this discussion, which would lead a speaker on and on until he would have exhausted his audience with the many details that would be brought to mind, but our consideration must be limited to only the principal factors involved.

I desire to say, first, that the success of a state fair is largely dependent upon the state board that directs the fair. In the first place, the state board of agriculture should be composed of gentlemen whose hearts are in the work of agriculture, and there should be great care taken in the selection of their president. While he is the presiding officer, he is also the moving spirit of the entire board. The duties which rest upon the president are such that a great deal depends upon his wisdom in the selection of superintendents of the various departments. It requires judicious forethought and moral courage on his part to appoint to these positions men who are manifestly qualified for the specific duties assigned them, and not be governed and lead into error by personal favoritism. Again, it is important that the board select a secretary who is qualified for the position; having both the social and business qualities to commend him to the confidence of the people with whom he may be associated. He should be a man above reproach, a man of energy and industry. With the right man for president, secretary and superintendents of departments, the work of making a successful state fair is well under way.

The next important thing in making a successful state fair is the location of the grounds on which to hold this great educational agricultural school. The grounds should be of easy access from the city where the fair is located and there should be a system of rapid transit between the city and the grounds. And the grounds should lie in such a manner as to afford the best of drainage and sewerage, and be suitable for the erection of the necessary buildings.

The first building should be the ad-

HARD TO DROP. But Many Drop It.

A young California wife talks about coffee:

"It was hard to drop Mocha and Java and give Postum a trial, but my nerves were so shattered that I was a nervous wreck and of course that means all kinds of ails.

"At first I thought bicycle riding caused it and I gave it up, but my condition remained unchanged. I did not want to acknowledge coffee caused the trouble for I was very fond of it. At that time a friend came to live with us, and I noticed that after he had been with us a week he would not drink his coffee any more. I asked him the reason. He replied, 'I have not had a headache since I left off drinking coffee, some months ago, till last week, when I began again, here at your table. I don't see how anyone can like coffee, anyway, after drinking Postum!'

"I said nothing, but at once ordered a package of Postum. That was five months ago, and we have drank no coffee since, except on two occasions when we had company, and the result each time was that my husband could not sleep, but lay awake and tossed and talked half the night. We were convinced that coffee caused his suffering, so he returned to Postum, convinced that coffee was an enemy, instead of a friend, and he is troubled no more by insomnia.

"I, myself, have gained 8 pounds in weight, and my nerves have ceased to quiver. It seems so easy now to quit coffee that caused our aches and ails and take up Postum."

Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

ministration building, which should be large and commodious and should contain offices for the officers and superintendents of every department of the fair, and there should be a large, well-lighted and well-ventilated auditorium in said building, that the various agricultural organizations of the state may here hold their public meetings, where agriculture, animal industry and kindred subjects may be discussed and enjoyed, thereby heaping compliments upon the heads of this administrative state board, as well as benefiting the said organizations.

There should also be a large and commodious exposition building erected for the benefit of all who desire to avail themselves of the opportunity of exhibiting their goods and wares of every kind and character.

Next an agricultural hall, for the purpose of exhibiting the products of the farm. This is one of the most important buildings on the fair grounds, for herein will be displayed the various things grown upon the farm which are necessary to the life of mankind and by which he is blessed; for it is written that man shall obtain his bread by the sweat of his brow.

And here I desire to state that the time is now upon us when this blessing of production and a return to farm life is being sought for and it will continue to be until production shall equal the demand of the consumers. The production of the farm today is not equal to the demand. It is amusing to see our law makers at Washington, and our president as well, asking for a committee to investigate the high cost of living, while it is regulated by supply and demand. A few years ago when the best mind and brain of the farm were directed to the cities, because of a better remuneration for services, and farm products were far below par, it was then that wheat sold for from forty to sixty cents per bushel and corn from twelve and one-half to twenty cents per bushel. Such a condition was calculated to drive the best blood of the country from the farm to seek relief from such financial oppression. In the days gone by, above referred to, when three-fourths of the farms of the country were mortgaged, did congress or the president ask for a committee to investigate the conditions? No, those conditions did not cause these gentlemen any uneasiness whatever. The farmers were the producers and the law makers were consumers. The transfer of the pack saddle is being realized—hence this investigation. The trouble, if trouble it should be called, does not all rest with, nor is it all chargeable to the monopolies, for the farmer is receiving \$8 to \$9 per hundred for hogs gross, on the market, and beef cattle selling at about the same ratio. These prices enable the horny-handed farmer to be well satisfied with, rather than ashamed of his occupation, and as he directs his beautiful automobile down the avenue he exclaims, "I am a farmer. I am from the country. I will help you to make the state fair a success." And he will do so.

In addition to this great agricultural building, the construction of a machinery hall is required, where all the agricultural implements and machinery that go to make up the success of the state fair are exhibited; where labor-saving devices and machinery of every kind and quality are installed. And a want here to drop a friendly hint: I do not believe that you can build machinery hall large enough to hold the exhibits that come if the effort necessary to make a successful state fair is made, for these displays are legion. And you will find in this exhibit the up-to-date farmer, hunting out, looking for, that class of machinery that will subserve his purpose, and he will be rewarded for his investigation.

It will be impossible in discussing a subject of this kind, or go into detail at any great length as to the various exhibits, hence I will mention only buildings that are absolutely essential in making a successful state fair.

The poultry building is a very im-

portant adjunct. The exhibits in this building will attract great attention, for the birds are blue ribbon specimens of their various kinds and poultry raising is one of the profitable industries of the farm.

Then come buildings for the live stock. Those for horses and cattle require great care and attention in construction, which it is impossible to describe at this time. For housing the sheep and swine, I think these two classes of stock could be exhibited together to great advantage and a pavilion for their use should be constructed in such a way that the sheep could go above and the swine below, thereby utilizing space and bringing these two classes of exhibits together. You will find that they can be shown from the same building in a manner that will attract great interest and visitors will be delighted with the exhibits.

The next I will mention is the coliseum building, and that cannot be made too large. In this building all the stock is exhibited except the sheep and swine, and it is wonderful what immense throngs will crowd into this building to see the large, beautiful heavy horses, carriage horses, light driving horses and the artistic high-school horses, as they are shown in the arena, and visitors are charmed with their appearance. Then the handsome beef cattle of the different breeds are an interesting exhibit to those who seldom see them; and the dairy breeds, including the beautiful little Jerseys with their affectionate faces, help to make up a grand and interesting show.

It is necessary that we have recreation and amusement on the fair grounds, and he who is fond of speed must be provided with the grandstand or amphitheater in which he can be comfortably accommodated to see the racing horses as they go by—the trotters, pacers and running horses all have their charms for the people. The speed track should, if possible, be a mile track. However, this is a subject that receives great attention and discussion. One says he would rather see a good mile race, another that he prefers a half-mile track, as he can see the dashers pass the polls twice, which gives double action to his vocal organs in the merry glee. As a matter of fact, either track will have its fanciers, who come to make a success of the fair.

Another structure that is essential to bring about success is the dairy building. Here are shown the products from the dairy cows, from which the quality of their production may be tested. Also in this building should be given daily lectures upon the processes of making and caring for butter and cheese. These lectures should be from the best educated minds of this country. This of itself is nearly a whole fair and will draw people like sugar draws flies. Some will say that what they saw and heard in this building was worth the whole fair and they felt well paid for their attendance.

The next building worthy of attention is the structure for the accommodation of women, usually known as the house of public comfort, where the tired old lady or the melancholy maiden may find sweet repose from their weariness and woes. Now in this woman's building I would suggest the establishment of a domestic science school, governed and conducted by a board of lady managers composed of from three to five members, of the most influential ladies of the state and accomplished in the art of managing such a school; and their duties should be to train young ladies in the science of healthful and scientific cooking and sanitary housekeeping. You will find this a benefit as well as a great drawing card for the fair.

Again, I would suggest that in the agricultural building there should be a room reserved and dedicated to the use of a school in which the boys of the state may be taught from example the science of agriculture in promoting a better quality of grain—corn, wheat and oats—also vegetables and

other products of the farm. They obtain a knowledge of the theory in the agricultural school of the state and then come here to see the practical demonstration of the theories laid down before them. Then the teachers should take the boys through the barns and stables of the various classes of live stock where they can be shown the progress of animal husbandry. And all this should be done under the influence of a teacher capable of imparting the information sought. With confidence in his teacher and the instructions he has received, the young man will come out from this agricultural school as proud as the boy of olden times was when he had donned his first pair of red-topped boots, and he will be benefited a great deal more so.

In the classification or making of the premium list, great care should be exercised. It is important to give as liberal premiums as you can afford, and that there be no favored classes. Let said list be graded according to the importance of the exhibits which are to be rewarded.

And I would recommend, and think it usually advisable, that the one judge system be adopted, as it gives more satisfaction than where there are more judges. Judges should be selected by the superintendents for service in their various departments, and great care should be exercised to secure those best qualified for the department which he or she is to judge. Judges should be above reproach, should be earnest, honorable and honest, and having that reputation to sustain them in their work. Where the superintendent has any reason to doubt the ability or integrity of a judge he should decline to use such assistance.

The general superintendent should see that the grounds are policed, for the purpose of maintaining order, and great carefulness is necessary on his part in the selection of men to perform this duty who are capable and reliable, and uniformed police are preferable. Another important item with the general superintendent is to see that the grounds are kept clean and in a healthful condition, which requires industry and labor at an hour perhaps when it is so sweet to sleep.

The office of superintendent of permits and privileges is another that requires the services of an individual who is upright, conscientious and a good business man, and his duty that he owes to the people of his state, in the promotion of a successful fair is to permit nothing of a doubtful character upon the grounds. He should exclude everything evil or having the appearance of evil—knife-racks, cane-racks, doll-racks and such devices as are calculated to lead the minds of the boys into the ways of everlasting ruin. He cannot use too much precaution in this department, and the state fair grounds should be kept as free from obscene shows and evil influences as our homes should be kept.

The superintendent of gates should secure coin-operating turnstiles, for this is a device and machine that is pretty hard to cheat. It does not bring more people to the fair than the ticket system, but it will find more people who come to the fair than the other system will. It is important that finances, and especially the gate receipts, be properly guarded, for the pleasing success of the fair is the finances, and to accomplish this requires great energy, watchfulness and economy on the part of every member of the board of agriculture.

Again, there should be a bureau of publicity, which should be associated with the secretary or in his office. The manager should be a gentleman of broad experience in newspaper work and the greater part of the object sought should be for gate receipts and to reach out to the rural citizens of the entire state. When this is accomplished the gate receipts will explain.

Now the ultimate success of any state fair is the support it receives

(Concluded on page 19.)

MOVING PICTURES

OF DAN PATCH 1:55 MAILED STOCKOWNERS FREE ALL POSTAGE PAID.

THIS IS A SENSATION OF THE WONDERFUL WORLD CHAMPION AND GREATEST TRIUMPH IN THE MARVELOUS AND REALISTIC MOVING PICTURE ART.

It is a New Invention that you can carry in your pocket and show your friends instantly day or night, either once or a hundred times and without a machine, curtain or light. It is the most Attractive Novelty and most pleasing Dan Patch Souvenir ever Invented and shows Every Motion of Dan Patch 1:55 in pacing one of his Marvelous and Thrilling World Record Miles and it is Absolutely True To Life.

I want to assure you that it is the most successful Moving Picture ever taken of a world champion horse in his Wonderful Burst of Speed. If you love a great horse and want to be able to see him in Thrilling Motion Pictures at any time as long as you live **Be Sure And Accept My Remarkable Offer Before They Are Gone.**

I reserve the right to stop mailing these very expensive moving pictures without further notice, as this is a special free and limited offer.

A MILE OF THRILLING RACE PICTURES, 2400 MOVING RACE PICTURES OF DAN PATCH 1:55

The original with 2400 Pictures shows the King of all Horse Creation as plainly as if you stood on the track and actually saw the mighty Dan Patch 1:55 in one of his Thrilling Speed Exhibitions for a full mile. Just think of it! 2400 Moving Pictures Taken Of Dan in 1 min. and 55 sec. means 21 pictures taken for every second all of the way around the entire mile track from the back seat of a high power automobile.

You Can See Dan Shake His Head To Let His Driver Know That He Is Ready And Then You Can Watch Every Motion Of His Legs As He Flies Through The Air With His Tremendous Stride Of 29 Feet. As A Study Of Horse Motion Alone This Is Better Than If You Saw The Actual Speed Mile Because You Can See Dan Patch Right Before You For Every Foot Of The Entire Mile And Not A Single Motion Of His Legs, Body Or Head Can Escape You.

You can see his Thrilling Finish as he strains every nerve and muscle to reach the wire in record breaking time, you can see his driver dismount and look at his watch while thousands of people crowd around, you can see his caretaker force his way through the crowds, uncheck Dan and then throw a beautiful woolen blanket over him to prevent catching cold and then you can see him walk up the track before a Madly Cheering Multitude of 93,000 people.

Wherever the Original Moving Picture, of the Fastest Harness Horse In The World, is shown, people involuntarily call out "Come on Dan"—"Come on Dan." The Original Moving Picture Of Dan Patch Pacing A Great Mile Is The Most Realistic, Thrilling Picture You Ever Saw. I Used A Large Number Of The Original 2400 Wonderful, Sensational Pictures And Made Them Into A Newly Invented Pocket Moving Pictures that you can easily carry with you in your pocket and show to your friends at any time, day or night. It does not need a machine, it does not need a curtain and it does not need a light. It is all ready to show instantly, either once or a hundred times

CREATES A SENSATION WHEREVER SHOWN.

If you admire a Great World Champion who has gone more Extremely Fast Miles than All of the Pacers and Trotters Combined that have ever lived then I am sure you will write me to-day for one of my Wonderful Moving Pictures of the King of all Harness Horse Creation, Dan Patch 1:55. The Pictures On This Page Show Dan In Many Positions in this great mile. **Your Moving Pictures Will Be Much Larger and Many More** and they show his marvelous rapid fire motion as He makes a desperate burst of speed to Beat Father Time To The Wire.

MY NEW, POCKET MOVING PICTURES MAILED FREE TO ALL STOCKOWNERS

With Postage Prepaid---If You Are A Farmer, Stockman Or Poultry Raiser I Require A Correct Answer To These Three Questions. **Be Sure and Answer These Questions.**

1st. In what paper did you see my Moving Picture Offer? 2nd. How many head Each of Horses, Cattle, Sheep, Hogs and Poultry do you own? 3rd. How many acres of land do you own or how many acres of land do you rent?

4th. I Personally Guarantee, Free To You, One Of These Marvelous Moving Pictures, If You Answer These Questions And Write Me Today. Signed,--M. W. SAVAGE, owner of International Stock Food Co., Dan Patch 1:55 and also International Stock Food Farm.

IF YOU ARE NOT A STOCKOWNER AND WANT THE MOVING PICTURES SEND ME 25 CENTS FOR POSTAGE,

Packing, etc., In Silver or Stamps and I will mail you this wonderful Moving Picture of Dan Patch 1:55, the fastest harness horse the world has ever seen. -- If you send me Twenty-five Cents in Silver or Stamps--EVEN if you do not own any stock or land, I will mail it to you postage prepaid. It costs Thousands of Dollars to have one of the original pictures taken and reproduced.

Your Money Returned If Not Satisfied. Write At Once to INTERNATIONAL STOCK FOOD CO., MINNEAPOLIS, MINN.

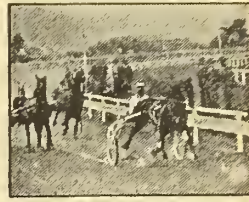
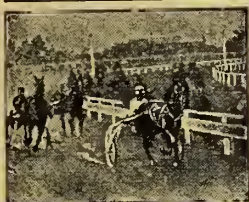
DO YOU EXPECT TO SEE THE DAY WHEN THESE WONDERFUL DAN PATCH RECORDS WILL BE EVEN EQUALLED?

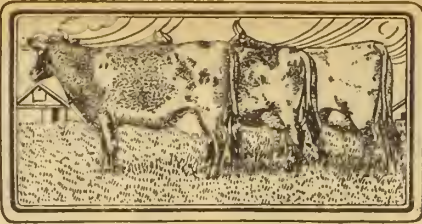
DAN PATCH 1:55 HAS PACED

1 MILE IN	1:55	30 MILES AVERAGING	1:57½
1 MILE IN	1:55½	45 MILES AVERAGING	1:58
2 MILES IN	1:56	73 MILES AVERAGING	1:59½
14 MILES AVERAGING	1:56½	120 MILES AVERAGING	2:02½

DAN HAS BROKEN WORLD RECORDS 14 TIMES

In addition to all these records Dan Patch is proving to be one of the Greatest Sires of both pacers and trotters in all horse history--Look up his large official list of Standard Performers. See his rapidly growing list of 2:30 Performers. Breed to a World Champion. Dan Patch 1:55 has gone more Extremely Fast Miles than the combined miles of all the trotters and pacers that have ever lived. Remember this when you think of any horse equalling his Marvelous Performances. Your good mare might raise a \$50,000 Dan Patch colt. For seven years Dan Patch has eaten "International Stock Food" every day mixed in his regular grain feed. It has given Dan Purer Blood, More Strength, More Endurance, More Speed and Perfect Health. It is constantly used and strongly endorsed by over Two Million Farmers and Stock Breeders, as the Greatest Animal Tonic, and has been for 20 years. No other preparation has such strong and practical Stock Breeders Endorsement, as has International Stock Food, the great animal tonic and blood purifier.





ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

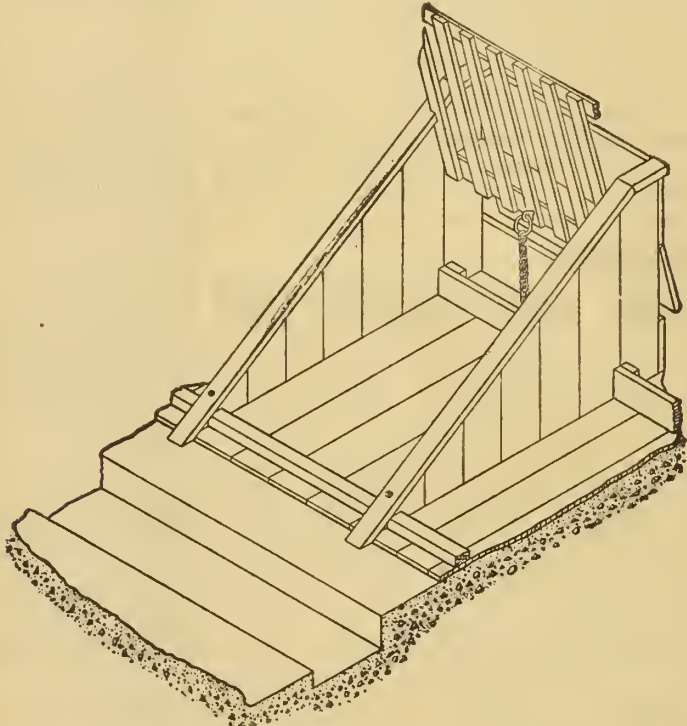
Homemade Cow Stalls

Cow comfort and cleanliness considered, some form of a cow stall is almost an absolute necessity in a dairy barn. Rigid stanchions are not comfortable. Too often they do not induce cleanliness.

Prof. C. A. Ocock, of the Wisconsin

five requirements established as standard by one prominent dairy authority—1st, cleanliness; 2d, comfort; 3d, convenience in feeding, milking and cleaning; 4th, economy of construction; 5th, secure enclosing.

This stall is built as indicated in the

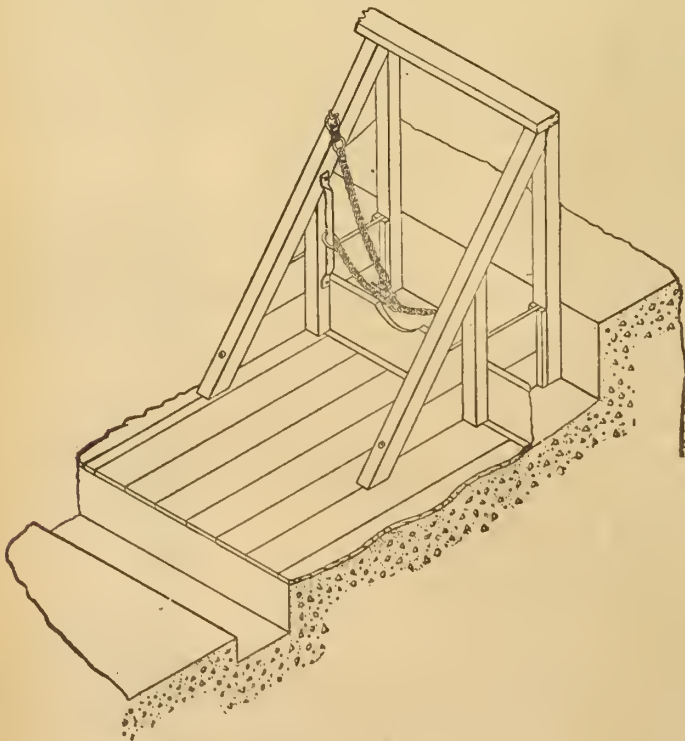


THE MODEL STALL.

The distinctive feature of the Model Stall is the crossbar which compels the cow to lie forward in the stall and keep herself clean.

College of Agriculture, is the author of a recent bulletin on sanitary cow stalls. On this page will be found illustrations of cow stalls described by Mr. Ocock as well as statements of the

drawing to force the cow to stand with her hind feet between the crossbar and gutter; in this way keeping the stall proper perfectly clean. When lying down the cow necessarily steps



THE IDEAL STALL.

The maximum amount of freedom is given by means of the chain tie in the Ideal Stall.

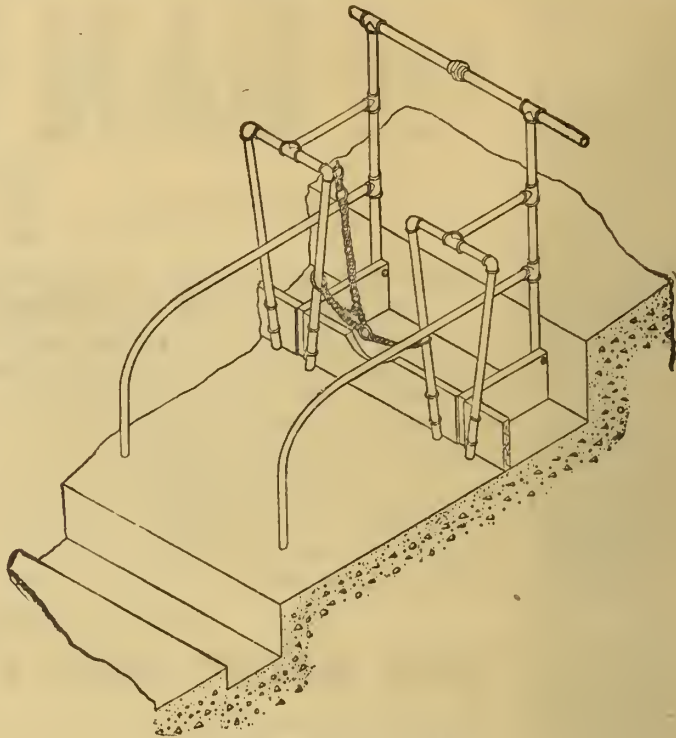
cost and merit of the various types. None of these stalls are patented or manufactured and can therefore be made by any farmer who possesses the necessary mechanical skill. Anyone of these it is thought will answer the

forwards and lies in front of the crossbar. The hay rack is so arranged that it allows more room at the bottom of the stall than at the top. This forces the cow to stand back from the hay rack when eating and, of course,

places her nearer to the gutter. The crossbar which has already been referred to can be moved forward or backward to accommodate large or small cows. The chain or rope with which each cow is tied is so arranged that when she lies down she is drawn forward which further aids in keeping her body in front of the crossbar. The door in front is hinged at the top and opens upward and forward for the pur-

more costly. The cost of ten New Ideal stalls is \$71.83.

The Helendale stall was originated upon the noted Helendale Guernsey Farm. It has not only been used with unqualified success there but also upon many other well-known places. It has several points of excellence which merit consideration. It includes a number of the merits credited to the Model and in addition several other



THE NEW IDEAL STALL.

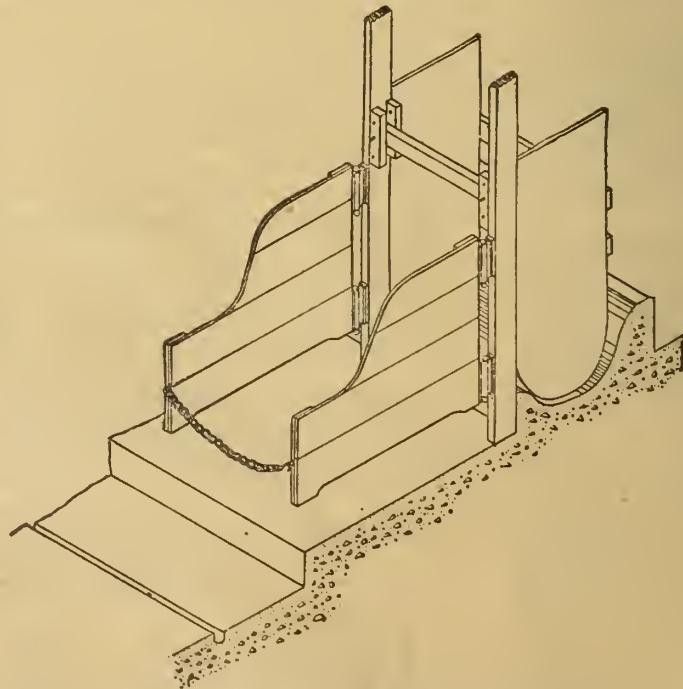
The New Ideal differs from the Ideal in that the framework is made of gas pipe.

pose of admitting grain and water. As will be noted the partitions are so arranged as to make it almost impossible for one cow to step upon the udder of another lying in the adjoining stall. This is a feature of merit which will be recognized by any one who has ever had charge of milk cows.

Ten of the model stalls it has been estimated would cost \$60.33.

One of the chief differences between the Ideal and the Model is the difference in the method of feeding hay. There is no hay rack provided as in the case with the other type, then, too, the crossbar is omitted from the floor of the stall. The chain tie in the Ideal admits of a great deal more freedom than is possible with any of the other ties. A cow has nearly full width in

noteworthy features. Among these is the crossbar which prevents the cow from going too far forward. This bar is placed upon two uprights and only permits the cow to reach comfortably and easily into the manger. It is adjustable so that it may be raised or lowered to accommodate different sized cows. The cows are secured in the stalls by means of chains running from partition to partition. These partitions are hung on self-centering hinges which force them to return to the center when left free. By means of this device the partitions are always in place and yet the gate may be swung to one side to admit the milker and to make it easier to clean out and bed down the stable. The gutter used in connection with the Helendale stall



THE HELENDALE STALL.

The Helendale encloses the cow by means of swinging partitions and a connecting chain.

the manger to work under. The guides to which the chains are tied are made of gas pipe with the ends flattened. To permit of watering the herd in the barn the feed manger should be made of concrete. The Ideal stall can be built at a cost of \$4.40 per stall.

The only difference between the New Ideal and the Ideal is in the material used. Gas pipe is used throughout which, of course, makes the stall

is constructed somewhat differently from the Model stall. It has an eighteen-inch drop back of the cows. Ten of these stalls have been estimated to cost \$56.71.

TWO IMPORTANT FACTORS IN DAIRYING.

The little cream separators and the co-operative creameries have done more to revolutionize the dairy busi-

ness than is sometimes realized. Before their appearance farmers, and very often without ordinary conveniences, made their own butter and then glutted the neighboring grocery stores with it. Very naturally and necessarily a great variety of product was produced. One dairyman packed it in tubs, another brought it in earthenware jars of varying sizes and still others made it into rolls. No matter how packed much of it went to the grocery counters—in many cases already far too inferior, but sure to deteriorate in the possession of the grocer as it mingled too promiscuously with flasks of vinegar, casks of pickles and pickling meats.

The individual dairyman, however, was not in a position to ship his product. Freight was too risky and uncertain and expressing much too expensive. Co-operation, however, has supplied the remedy. The co-operative creamery can engage a portion or all of a refrigerator car and in this way deliver the butter to the best markets in just as good condition as when it leaves the creamery cooling room. These important changes have all been brought about by the introduction of labor-saving machinery and better business principles. The end is not yet.

STERILIZATION OF MILK.

The most obvious suggestion would be to heat the milk to a temperature which would destroy all bacteria at once. This is perfectly possible, but, owing to the fact that milk always contains spore-bearing bacteria, it requires a high temperature for the purpose. A temperature of boiling water will not destroy the spores, and for this purpose it is necessary to heat the milk to several degrees above boiling. This involves the use of special apparatus, in which bottles of milk can be inclosed in special vessels, subjected to steam under pressure, and subsequently hermetically sealed while still within the closed vessels. Such apparatus can be used only where there is a steam supply on hand and it inevitably makes the milk rather expensive. The milk so prepared is, however, supposed to be germ-free and consequently, to keep indefinitely. Unfortunately, it has been shown that even these temperatures of superheated steam do not always destroy all the spores, and some of the samples of milk thus treated will subsequently undergo fermentative changes due to the spores that are left. Further, it has appeared that these later changes, due to the resisting spores, are frequently such as do not change the appearance of the milk to the eye, so that such milk, though containing bacteria in quantity, will be drunk as pure milk. The fermentation has, moreover, filled the milk with bacterial products of more or less injurious nature, and consequently the drinking of such milk is far worse than drinking fresh milk which is most likely supplied chiefly with lactic bacteria. The sterilized milk, if it does retain a single spore, is, therefore, more dangerous than ordinary fresh milk. For this reason, among others, this practice of treating milk to superheated steam for the purpose of absolute sterilization is not popular and is clearly becoming less so. It is used today less than it was a few years ago and is bound to disappear.

A modified form of sterilization, which consists in simply boiling the milk, has been far more extensively adopted. This was recommended by physicians long before its real significance was understood and has been very widely used in all civilized countries. Its simplicity of application explains the reason for its popularity. It is only necessary to place the milk upon a stove and allow it to come to a boil, and the end is reached. Such treatment of milk has been very widely recommended, and has been put into use very extensively in the countries of continental Europe. In some of these countries very little milk is used without such previous boiling, and even the children are taught in school that it is dangerous to drink milk without such treatment. The purpose aimed at in this wide use of boiling, which is commonly, though not properly, called sterilization, is simply to destroy the danger of distribution of disease, by the destruction of the pathogenic bacteria. This pur-

pose is certainly achieved, for the boiling temperature does destroy all the pathogenic bacteria which are likely to be in milk, since none of these are spore-producers. Boiled milk thus offers a food which contains no pathogenic bacteria.—(Conn's Bacteriology.)

ROPINESS IN MILK.

The Rhode Island Experiment Station has been investigating the problem of ropy milk. It finds that ropiness or stringiness in milk and cream is not an uncommon occurrence in dairies and on farms in general. The trouble is characterized by the fact that the milk and cream become so viscid that when drawn up on a fork or ladle, long threads or sheets like those in molasses are produced. The trouble is due to the presence of a micro-organism which gains entrance to the milk through the use of contaminated utensils. Invariably this contamination is introduced by using a straining cloth which harbors the germs. Ropiness is not a kind of garget, and it is never the result of cows eating poisonous plants, although that may effect milk in other ways.

The trouble can be entirely eliminated from every dairy or farm if the proper precautions are taken. All utensils should be thoroughly washed with soap and water, and then scalded. The movable utensils, such as pails, straining cloths, etc., should be exposed to the action of the sun for several hours. Special pains should be taken to keep the hands perfectly clean while handling the dairy products, while the teats and udders of the cows should be carefully washed each time before milking.

One effect of ropiness is that when the cream rises it will incorporate a considerable part of the milk with it. This will result in very slow churning. At the Rhode Island station two batches of cream were tested, the first one being free from these baneful organisms, and the second one inoculated with the germs which cause ropiness. In the first instance it required only fifteen minutes to bring butter, while in the second instance, where the germs of ropiness were present, it required an hour and a half. Furthermore, the product in the latter case was soft and sticky and light in color, much of the butter stuck to the sides of the churn and dasher, and had to be scraped off. In addition, it was almost impossible to work the butter-milk out of it. Under these conditions of course it is impossible to make anything like a high-grade of butter and for that reason, when this condition once appears the greatest precaution should be taken to destroy all the germs.

Butter From Non-Churnable Cream.

To the Editor of The Homestead:

A subscriber sends the following communication:

Am milking two cows. One was fresh in August and was bred lately. Both of these cows are treated alike and still no butter can be churned from the milk produced. We kept the milk separate and find it is the cow that was fresh in August. She is a coming three-year-old and seems to be healthy. They are fed two gallons of corn and cob meal and one gallon of wheat and oats, mixed, per day. They are kept in a good, warm, dry stall at night and given good second-cut clover hay. They are turned out in the daytime and are given corn fodder. They also receive lots of salt and good well water. Can you tell the cause and what to do for it? I would be glad to have someone advise.

To answer the above query in an intelligent manner would require a more thorough acquaintance with the condition than is possible without being in touch with circumstances. The writer is evidently under the impression that the peculiar circumstance is due to some pathogenic condition of the animal. This theory may be very readily discarded, since that fact could cause only a lack of production of butter fat. If this condition is suspected the only means of determining the butter-fat production of the animal would be to test the milk produced. Again, the fat globules may be very small, thus changing the physical composition of the milk to such an extent that churning would be made difficult.

At this time of the year the condition very readily and commonly arises that churning is made difficult. This is true because the temperature of the cream is usually low. Since the cold



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We cannot believe that there is a sensible man living who would purchase any other than a DE LAVAL Cream Separator for his own use if he would but see and try an improved DE LAVAL machine before buying.

It is a fact that 99% of all separator buyers who do see and try a DE LAVAL machine before buying purchase the DE LAVAL and will have no other. The 1% who do not buy the DE LAVAL are those who allow themselves to be influenced by something other than real genuine separator merit.

Every responsible person who wishes it may have the Free Trial of a DE LAVAL machine at his own home without advance payment or any obligation whatsoever. Simply ask the DE LAVAL agent in your nearest town or write to the company direct.

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EARLY BUYERS ARE LUCKY BUYERS



Six thousand in use is absolute proof that Indiana Silos are the best in the world. "Ask the man who uses one." The patented mechanical features make them better. Our self-draining mortised joint doubles the life of the silo.

Our combination steel step and continuous door frame is most substantial and convenient.

The best materials make Indiana Silos by far the best. We own saw mills and timber lands, and thereby get stock selected, seasoned and prepared exclusively for our silos.

We now have ready an enormous stock of the finest silo material, and we are now booking orders for 1910 delivery.

Indiana one-piece stave silos have never been equalled. An Indiana Silo saves half your feed, it pays for itself in one season. High priced feed makes it imperative that you investigate and decide upon your silo now.

Write for the reasons why "Early Buyers Are Lucky Buyers."

We are in a position to give exceptional service, minimum freight, prompt delivery, etc., from our factories at Anderson, Ind., Des Moines, Iowa, and Kansas City, Mo.

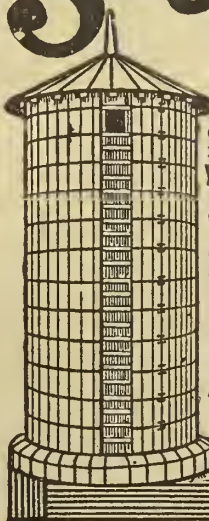
Write for THE SILO ADVOCATE FREE!
Today AND OUR SILO BOOK FREE!

These contain much valuable information you should have.

Address all communications to the General Offices of the
INDIANA SILO CO., 321 Union Bldg., Anderson, Ind.

NOTICE—We are the largest Silo Manufacturers in the World.

Saginaw Silo A Sure Road To Greater Profit



Keep eight cows on the same acreage that you are now keeping one. Increase the flow of milk. Make it richer in butter fat at the season when it commands the highest price. The Saginaw Silo is built of the best material. It has many points of superiority over any other silo on the market. Continuous steel door frame, 22x26 3-4 inch openings. It is air tight and will give you the largest returns from the money you have invested in your stock. And

You Can Save Money By Buying A Saginaw

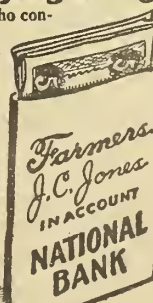
We have a proposition to make to every farmer who contemplates buying a silo.

Write For It. We will send you this proposition together with a handsome illustrated book on Silage Feeding and Silo Construction. This book tells you how to feed silage to the best advantage. It gives twelve different rations. It prescribes for all kinds of stock. This book is worth money to you. Write for it today. It is based upon the experience of farmers who have used silos for years and is approved by the leading agricultural authorities of the United States.

FARMERS' CO-OPERATIVE PRODUCE COMPANY

Des Moines Iowa.

Dept. B



A dollar saved is a dollar earned with interest.

weather retards the growth and development of lactic acid organisms, the production of lactic acid, a very necessary acid for the facilitating of churning, is reduced. The reason lactic acid is so necessary for the purpose of churning lies in these facts: each fat globule is surrounded by a thin film of an albuminous substance. To readily assist the adhesion of the fat globules, which is necessary in

churning, it is necessary to develop lactic acid. The acid cuts away this film-like substance surrounding each globule and allows a chance of adhesion. The only method that can be advised from the information is to develop a goodly amount of acid, churn at a high temperature, and keep clean the utensils used.

Augustus Forrest.

Story county, Iowa.

"Dairying in Denmark"

By Edgar T. Cavanah

In no other country does everything give place to dairying as it does in Denmark, and in no other country are the farmers so prosperous and self-respecting. There must be great opportunities ahead of the American dairymen if Denmark can profitably feed our grain and maintain through dairy exports, her place as one of the most thrifty nations of the world. The aim of the Danish farmer is to keep possible on a given area; one cow to two and one-half acres. Enough young stock is raised to keep the herd supplied with cows. From their feeding of cake and meal and the stall feeding of green crops, an immense amount of manure of fine quality is made, and with their careful methods of husbanding the solids in a covered manure pit and the liquids in a cis-

tern, and applying in small quantities at frequent intervals during the rotation the producing power of their land is increasing from year to year.

The development of the breeds to such a high degree in twenty-five years has been due to the farmers' skill, intelligence and common sense in selecting and breeding for milk production alone. The price of cows range from \$80 to \$90 per head. Only the best heifers are raised, and with the record of the dam and the qualities of the sire known their selection is simple.

The cows are treated with kindness and every effort is made to have them comfortable at all times. On many farms cows are groomed the same as horses here.

The soiling crops used are rye, oats

and peas, oats and catch vetch, clover and grass. These are hauled to the barn and fed green or pastured off by tethering the cows along the edge. In some sections of small farms all the land is under cultivation.

Cows are seldom turned to pasture, but tethered by means of a halter and a long rope fifteen to twenty feet long which is attached to a pin driven into the ground. The cows are moved five or six times a day, from three to six feet, depending on the amount of feed.

Thus the crops are grazed off, even when two or three feet high, without waste. This is the Danes' chief point of economy in summer feed. Practically no grain is fed while cows are on grass. A few dairymen feed a little oil cake to their best milkers. Water is carried twice a day to the tethered cows. Many small dairymen take the cows to the stable to be milked three times a day. They are stabled all winter, fed all the straw they will eat, and on the average, four pounds of hay, forty to 100 pounds of roots and about six pounds of grain per day, consisting of oil cake, bran, barley and oats. An even flow of milk is required the year around, and most of the cows freshen from September to May.

Stringent rules are laid down in regard to cooling the milk on the farm and in not mixing morning's and night's milk. All foods which may impart an objectionable flavor to the milk are forbidden. The creameries are compelled by law to pasteurize all skim milk by heating to 180 degrees before it leaves the creamery, to prevent the spread of tuberculosis through this medium. The loyalty of the Danes makes it rarely, if ever, necessary to impose the penalties. The skim milk is converted into bacon hogs and the bacon exported to England.

The secret of the Danish butter makers' success lies largely in their habits of thoroughness. They first construct a sanitary building and then keep it clean by daily scrubbing. This applies equally well to all the machinery and apparatus in the creamery. They have milk delivered to the creamery in almost ideal condition. Another secret is that they study their business thoroughly, becoming very proficient, as they expect to remain at the occupation for their life work. Thus they turn out a product of uniformly high quality which is the chief

QUALITY COUNTS

The
GREAT
WESTERN
CREAM
SEPARATOR

Guarantees
the
Highest Type
of
Up-To-Date
Construction



When You Buy

a cream separator, you should demand an "up-to-date" machine. Don't buy a machine that was "in style" ten years ago—a high tank, exposed gears—plain bearings set in holes cut in cast iron frame are all evidences of a "back number."

THE GREAT WESTERN

is made throughout with the absolute accuracy of a high-grade watch. Skims closest (hot, cold or stale milk) because it follows every law of nature. Equipped fully with imported ball bearings—guaranteeing the highest-running separator in the world. High crank, so the operator doesn't have to break his back. Self-flushing, self-draining bowl—gears enclosed, which work automatically in a bath of oil. Low down tank—low down and compact frame.

The Great Western carries the strongest guarantee ever issued—it protects you for five full years.

We furthermore guarantee satisfaction to you—any kind of a trial, without one cent of expense to you, or obligation either. Ask your dealer to show you a Great Western, and don't let him work any substitute game on you. It will pay you to buy the best.

Let us show you many other exclusive features—just write us today (if interested) for one of our large FREE Art Catalogue No. 642. Do it right now.

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EARLY BUYERS
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factor in their success with an export trade.

Effect of Cold on Germs.

In contradiction of the beliefs of most persons, I do not think that cold weather is destructive to those forms of life variously known as bacteria, germs and microbes. Prof. F. H. Billings, of the department of bacteriology at the University of Kansas, said recently. Cold is unquestionably unfavorable to the activity of the germs, but experiment has shown that they are the most resistant to extremes of temperature of all known organisms. Take the matter of harvesting ice from rivers and lakes. Often one thinks nothing of using ice from a river when one would not think of drinking the water from the same stream. The process of freezing removes some of the germs, but others will live in the ice all summer and have their activity restored when they are put in a pitcher with the ice to make a cooling drink.

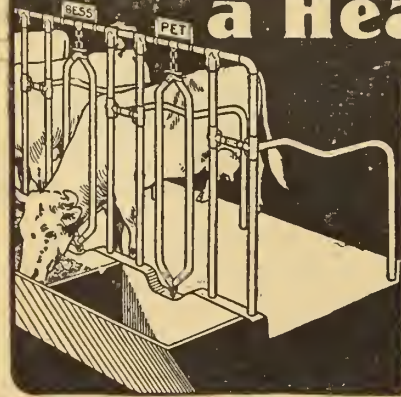
It has been proven that germs increase in number in stored ice cream. A sample of fresh ice cream tested sixteen million germs to the cubic centimeter. After three days' storage in a frozen state the number had gone up to twenty-five million to the cubic centimeter.

The germ of tuberculosis has lived in the laboratory for forty-two days in a temperature of 345 degrees below freezing. It lost none of its vitality or virulence in that time. Other germs have stood equally severe tests without injury.

In spite of the fact that cold cannot be depended upon as a germ exterminator, the winter is a bad time for the minute forms of life. They have fewer opportunities to get in their deadly work. From that standpoint the health of the community should be better in the winter season.

It is impossible to find milk that is free from germs. These filth germs kill many bottle-fed infants. Infant mortality from milk is most prevalent

Does the Cows a Heap of Good



Cow comfort and cow sanitation result in more cow profits, and that alone should induce any farmer or dairyman to seek these conditions.

Louden Sanitary Steel Stalls and Stanchions double the light and air in a barn and insure perfect ventilation, perfect sanitation—a result impossible with any wooden equipment. Yet

LOUDEN STALLS AND STANCHIONS

are actually cheaper. Louden stalls of heavy tubular steel, with malleable fittings, have no flat surfaces for dust to accumulate—easy to keep clean and almost indestructible. Louden stanchions give cows more comfort than other makes, yet keep them perfectly lined up. Throat chains prevent cows from lying down when milking. Simple and very durable. Latch easily opened or closed with gloved hand, but can't be opened by animal. Send today for free catalogue of sanitary, money-saving barn equipment.

LOUDEN MACHINERY CO., 609 Broadway, Fairfield, Ia.

\$15.95

AND UPWARD

THIS OFFER IS NO CATCH.

It is a solid, fair and square proposition to furnish a brand new, well made and well finished cream separator complete, subject to a long trial and fully guaranteed, for \$15.95. It is different from anything that has ever before been offered. Skims 1 quart of milk a minute, hot or cold, makes thick or thin cream and does it just as well as any higher priced machine. Any boy or girl can run it sitting down. The crank is only 5 inches long. Just think of that! The bowl is a sanitary marvel; easily cleaned, and embodies all our latest improvements. Gears run in anti-friction bearings and thoroughly protected. Before you decide on a cream separator of any capacity whatever, obtain our \$15.95 proposition.



THE LOW DOWN AMERICAN SEPARATOR

EXCELS ANY SEPARATOR IN THE WORLD

OUR LIBERAL TRIAL ENABLES YOU TO DEMONSTRATE THIS. While our prices for all capacities are astonishingly low, the quality is high. Our machines are up to date, well built and handsomely finished. Run easier, skim closer, have a simpler bowl with fewer parts than any other cream separator. Thousands of machines in use giving splendid satisfaction. Write for our 1910 catalog. We will send it free, postpaid. It is richly illustrated, shows the machine in detail and tells all about the American Separator. Our surprisingly liberal long time trial proposition, generous terms of purchase and the low prices quoted will astonish you. We are the oldest exclusive manufacturers of hand separators in America and the first to sell direct to the user. We cannot afford to sell an article that is not absolutely first class. You save agent's, dealer's and even catalog house's profits by dealing with us and at the same time obtain the finest and highest quality machine on the market. Our own (manufacturer's) guarantee protects you on every American Separator. We ship immediately. Western orders filled from Western points. Write us and get our great offer and handsome free catalog. ADDRESS,

AMERICAN SEPARATOR CO., BOX 1073, BAINBRIDGE, N. Y.

in the summer. The cold weather renders the microbes less active and they are then not so harmful. Sufficient use of ice will stop the ravages of the germs in the warm weather.

There is one indirect effect of cold weather that is bad. The germs of diphtheria, pneumonia and tuberculosis are warded off by the resistant powers of a person. In winter many people stay close indoors and lose the invigorating effect of the pure, cold air. There are more germs in the average living room, with its closed doors and vitiated air, than when the windows and doors are open and the air is in a continual process of change.

Clip the long hair from the udder and flanks and tail of the milk cow. Be sure to wipe off the udder with a damp cloth before milking, and you will not be bothered with trash in the milk.

Well-Cured Cheese.

That consumers who once become accustomed to a well-cured, sweet and mild-flavored cheese will always demand it and when they do not get it will no longer buy any American cheese is the opinion of Mr. A. F. Koopman, Jr., of Port Washington, Wis., who has had a long and intimate acquaintance with several of the more important cheese markets of this country. There are, of course, men who demand uncured cheese and still others who call for a brand but partly cured. The consumers of uncured or partly cured cheese are becoming fewer and fewer each year.

Southerners complain that the cheese they get is too dry. On the other hand, cheese dealers who ship south are demanding a firm, solid and close-bodied cheese. The cheese producer cannot satisfy the demands of both classes and, as he is immediately answerable to the dealers, chooses

One Pail, or Two?

Why not make the cows pay better this year than last. You can do it; you can get better returns at the pail and the churn than you've known before in all your dairy experience. Give Dr. Hess Stock Food to the cows twice a day in their grain. No need to increase grain or fodder—it's simply a matter of making the grain and fodder you do give *digest more perfectly*, and of turning a larger per cent of it into rich, foamy milk.

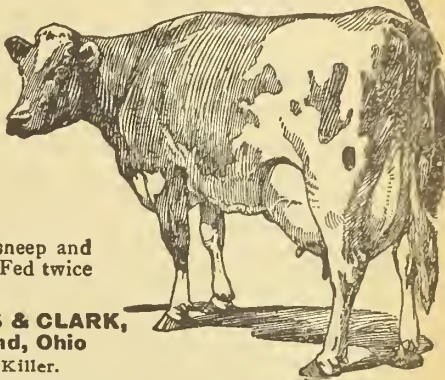
DR HESS STOCK FOOD

will do this—is doing it wherever given, because it makes grain, hay, roughage—whatever the cow eats—at once *available* to pass into the blood as the basis of a larger milk secretion. This attention to *animal digestion*, rather than to quantity of ration, is known among stock raisers as "THE DR. HESS IDEA" and is practical for all farm animals. Horses work better, steers fat quicker, and sneep and hogs show greatest development when they receive Dr. Hess Stock Food Daily. Fed twice a day in small doses. Sold on a written guarantee.

100 lbs. \$5.00 **25 lb. pail \$1.60** Except in Canada and extreme West and South. **DR. HESS & CLARK, Ashland, Ohio**
Smaller quantities at a slight advance.

Also manufacturers of Dr. Hess Poultry Pan-a-ce-a and Instant Louse Killer.

Free from the 1st to the 10th of each month—Dr. Hess (M. D., D. V. S.) will prescribe for your ailing animals. You can have his 96-page Veterinary Book free any time. Send 2c stamp and mention this paper.



DR. HESS POULTRY PAN-A-CE-A

must not be confounded with so-called "poultry foods." It is not a food—its sole reason for being is that *all fowls need a digestive tonic* so that what they eat will make the most in eggs and flesh. Dr. Hess Poultry Pan-a-ce-a *strengthens the digestive organs* of the laying hen and growing chick, and thus there is *less food waste and more production and growth*. It also cures Gapes, Roup, Cholera, etc. A penny's worth feeds 30 fowls one day. Sold on a written guarantee.

1½ lbs. 25c; mail or express 40c. 5 lbs. 60c; 12 lbs. \$1.25; 25 lb. pail \$2.50.
Except in Canada and extreme West and South. Send 2c for Dr. Hess 48-page Poultry Book, free.

INSTANT LOUSE KILLER KILLS LICE

to meet their requirements. Those who prefer brick and other foreign types to American cheese find the latter too dry, hard, insufficient in moisture and too pronounced in lactic acid flavor.

Economy of the Round Dairy Barn.

The planning, construction, and arrangement of farm buildings do not usually receive the thought and study these subjects warrant. How many dairymen have compared a circular,

40-cow barn with the common rectangular building containing the same area? How many understand that the circular structure is much the stronger; that the rectangular form requires 22 per cent more wall and foundation to enclose the same space; and that the cost of material is from 34 to 58 per cent more for the rectangular building?

Prof. W. J. Fraser in bulletin No. 143 of the Illinois Experiment Station, says that heretofore there has never been published a carefully figured out, detailed comparison of a properly constructed circular barn with the rectangular barn. The objections that have been raised to round barns have usually been made by people who have not gotten far enough into the subject to really understand the relative merits of the two forms.

It has been found by comparison and experience that the round barn has many advantages over the rectangular form. In order to compare the amount and cost of material in the round and rectangular barns, the figures given in this bulletin are based on the careful, detailed estimates of an expert barn builder. Two comparisons, figured on wood construction throughout, are made, in which round barns sixty feet and ninety feet in diameter are compared with both plank and mortise frame rectangular barns containing the same number of square feet of floor space, respectively.

Regenerating Worn-Out Lands.

Many a chapter has been written on the regeneration of Germany. Where once barren fields stood, so barren that foodstuffs would not grow, there have arisen vast works bristling with the stacks of factories and thousands of commercial flowers grow where once not even a weed would flourish. And in all these plants, writes Dr. Maximilian Toch, in Science, chemists are working, controlling the products that are made, and creating new things and for every new and useful compounds more work is found, and whereas, emigration was the rule in Germany thirty to fifty years ago, and its best people left it like rats from a sinking ship, today many are immigrating, for it's a flourishing land which chemistry has retrieved. Germany was always poor up to ten or fifteen years ago. With one or two possible exceptions, no vast industries existed, and it had nothing to export, but today its exports are enormous, its people prosperous, in sad compari-

KIMBALL'S DAIRY FARMER

Is a national dairy magazine, ably edited by the best dairy authorities in the country. It is handsomely printed and illustrated, and issued twice a month at 50 cents a year. It should be read by every cow-milking farmer in the country. It publishes full reports of the big Iowa Cow Contest.

SEND FOR SAMPLE COPY.
KIMBALL'S DAIRY FARMER, WATERLOO, IA.

Iowa Silo

Write for our New Ensilage Book and Catalog FREE. We sold more one-piece stave silos in the State of Iowa the past season than any other firm doing business. The IOWA SILO is built of absolutely CLEAR OREGON FIR in full length staves. Liberal discounts to early buyers. Don't delay, but write us today.

IOWA TANK & SILO CO.,
Waterloo, Iowa.
Dept. B. Box 324.

son to its neighbor, Austria, where industry is making slow progress compared with Germany.

WHAT MAKES A SUCCESSFUL STATE FAIR.

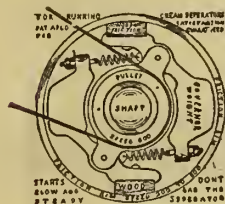
(Continued from page 14.)

from the people of the state—from the legislature of the state that will make liberal appropriations, with the governor of the state standing with an open hand to welcome this great agricultural school to closer fellowship with every department of the state. When this is done heartily, then success is assured.

Last, but not least, hotel accommodations with reasonable prices to visitors, and a bureau of information, benefiting all who seek for guidance or assistance of any kind, add materially to the success of any fair.

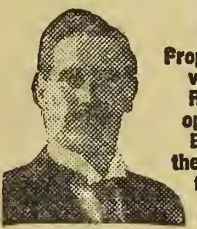
And scattered over the grounds here and there should be seats where the weary sightseer may rest and admire the grounds as well as the exhibits thereon, and these conveniences will bring about the crowning sheaf of success of which the state board of Wisconsin or any other state may well be proud.

Ask your neighbor to subscribe for The Homestead.



DAIRYMEN

TAKE a look at the **Strite Governor Pulley**. It's the original and "only thing" for driving cream separators with gasoline engines. Once tried, always used. TRY ONE. Ask your dealer for a "STRITE" or write us direct. Don't take an imitation. **STRITE GOVERNOR PULLEY CO., 327 South 3d St., Minneapolis, Minn.**



Get my Special Proposition which is Real Co-operation Between the Manufacturer and the Farmer

GALLOWAY SAVES YOU \$25 to \$50

If You Answer This Ad

Cut or tear out this coupon—or write a postal or letter—and send your name to me before you buy any kind of a cream separator. Keep \$25 to \$50 cash in your own pocket. In savings, and get a better separator than you would pay others \$85 to \$110 for—you be the judge and jury. I promptly quote you prices direct from my factory to you—also send you my big, free separator book and special proposition.

William Galloway Company, of America
103 Galloway Station, Waterloo, Iowa

Name.....
Town.....State.....

"OK"

By the Farmers and Dairymen of America

like a \$5,000 automobile, and all other modern machines.

- The only Separator that automatically oils itself.
- The only Separator into which you can pour oil at the top once a month from your oil jug or can, and have it oil itself without danger of running dry, or ruining itself like others. This feature alone worth \$50.00 more than separators built the old way. Cost nothing extra on Galloway.
- No oil cups to remember to fill or turn up twice a day.
- Dust-proof—Danger-proof—All gears enclosed—Simple but standard built and absolutely dependable.
- Has the only revolving supply tank. Worth \$15.00 more on any machine. Costs nothing extra on a Galloway.
- Easiest to clean and the few parts come out easy and can't get back out of place.
- Easiest to run—high crank—low tank. With no high lifting and no "back-breaking" cranking.
- Gets the finest quality cream, and all of it—no lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down.
- Skims closest in any climate or season, no matter whether your milk is warm or cold.
- Is as handsome a machine, compact and substantial as you ever saw or could find. Beautiful finish.

Let us send you all the facts, told in our New Cream Separator Book. Let me write you personally and send you this Big, New Separator Book of mine—postpaid—Free, so that you and your wife and the boys and girls can talk it over and then try one of my separators under my easy plan for you to do it.

You'll call it the best if you test it alongside any of the highest-priced \$85.00 to \$110.00 separators sold by anybody today—makers—catalog houses—supply houses—dealers—jobbers or anybody else.



Save \$25 to \$50 on Capacities From 200 to 950 Pounds Per Hour

Only \$33.50 and up

Freight Prepaid

30 Days' Free Trial

90 DAYS' APPROVAL TEST

Wm. Galloway, Pres., The Wm. Galloway Co., of America
Authorized Capital, \$3,500,000.00. 103 Galloway Station, Waterloo, Iowa

BEST CUTS IN BEEF CARCASS

By F. B. Swingle, Wisconsin

THE proof of the beef cut is not always in the eating, for its essential value is qualified by the price paid per pound and by the real nutritive content of the piece broiled, boiled or roasted. Acquired habits of taste, and skill in cooking meats are also factors of the problem.

It requires no little knowledge and skill to become familiar with the different cuts, grades and values of the

meats used in the rotation mastered by the housewife of experience. A well-ordered meat program is always being sought by the feminine side of the dining room, and is always popular with the "men folks." We like meat because it tastes good and also because we think it a good strengthening diet for us. So meat constitutes the central dish of the menu commonly seen upon American dinner tables. There is a reason. The cook who manages the problem of meat selection, cooking, and serving with skill will seldom be sharply criticised regarding the rest of the ordinary preparation of a hungry man's dinner.

The responsible housewife has an exceedingly complex problem in the proper economical and satisfactory nourishment of her family, and it is not strange that she depends heavily upon this article of food; for meats can be made acceptable with less expenditure of time and less variety of modes of preparation and serving than

the importance when the vegetable is made simply the medium for conveyance of meat juices in the form of rich gravies. Hence it is not strange that expensive loin cuts are in demand; they are "short cuts" to a dinner.

But every ordinary housewife knows that it is not in the line of economy to serve tenderloin slices continuously. She also knows that it requires more time, more knowledge of cookery and seasoning, and more

quire years of experience before she learns to look for the tiny flecks of fat in the tissues as evidence of quality in beef, particularly in a piece selected for pot roast, but this rule applies generally.

Regarding kettle roasts, a wise butcher once gave us a "tip," and you may take it for what it is worth. He said: "When our experienced cooks desire something in the line of kettle roasts that is sure to please, they call

mandated that prices are "boosted" as a resort to equalize the consumption of all portions.

The good wife who makes this a subject of study will do well, for her own household, from the points of economy and real satisfaction, and also from the view-point of the general economy of our national beef consumption. Even the market men themselves will rise up and call her blessed.



NO. 1. LOIN CUTS, RANGING FROM SIRLOIN AT THE LEFT TO THE TENDERLOIN AT THE RIGHT. THESE CUTS COST SEVENTEEN CENTS TO TWENTY-FIVE CENTS PER POUND.

meats used in the rotation mastered by the housewife of experience. A well-ordered meat program is always being sought by the feminine side of the dining room, and is always popular with the "men folks." We like meat because it tastes good and also because we think it a good strengthening diet for us. So meat constitutes the central dish of the menu commonly seen upon American dinner tables. There is a reason. The cook who manages the problem of meat selection, cooking, and serving with skill will seldom be sharply criticised regarding the rest of the ordinary preparation of a hungry man's dinner.

ingenuity in serving to make less expensive cuts equally acceptable. It can be done, but it takes much more skill to prepare an appetizing stew or a perfect roast. Mrs. Newlywed, who

for 'a round-bone pot roast.' They never get fooled on that order."

To be brief, we need to study our meat orders in the interests of proper economy; not alone to reduce the ac-

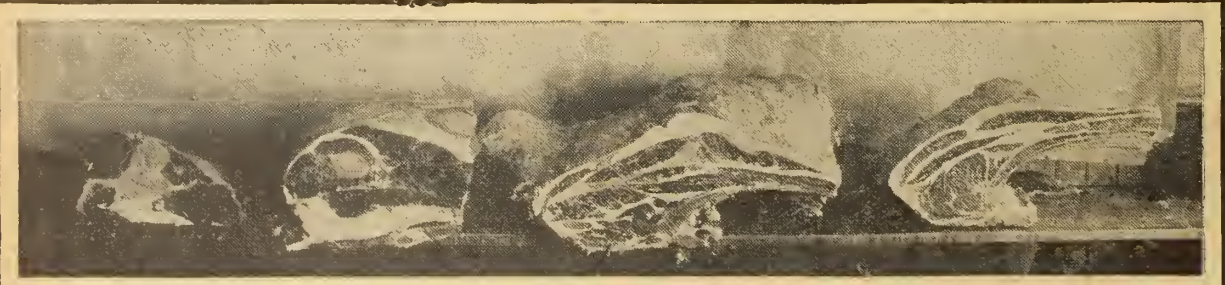


NO. 2. THE ROUND SHOULD SHOW NEITHER TOO DARK NOR TOO PALE TO PROVE PRIME. THE FIRST CUT OF THE RUMP (SECOND FROM LEFT) IS THE CHOICE OF THE BEEF FOR A KETTLE ROAST.

runs out to the butcher's cart and calls for a piece of "boiling beef," has probably much to learn before she can believe that a plate piece at nine cents, or even a bone, will make just

tual cost to us, but to be more certain that we get value received in protein units—so to speak. We of the United States average half a pound of meat each day per capita, but it is

Homestead holds the opinion that there is not an Aberdeen Angus breeder in Iowa but who should be a member of this state association. The above program is the most elaborate of any that has ever been prepared for the annual meeting, and as each individual on the program is a specialist, we bespeak for them a large audience.



NO. 3. RIB ROAST (AFTER SEVENTH RIB CUTS). THESE CUTS MAKE THE MOST ECONOMICAL OVEN ROASTS AT ABOUT FIFTEEN CENTS PER POUND.

most other cooked foods. This is so much more especially true of the choice cuts that the element of economy is sometimes omitted. A choice steak can be bought, broiled and served, all in a few minutes. Skill and a hot fire secure the richest meat flavor, and the family is satisfied. The flavor of a potato is of lit-

the soup she wants. And, unless she has the good fortune to be a farmer's daughter or a graduate from a common sense school of domestic science, she may never have heard that the first cut from rump makes the best kettle roast she can buy for the money. Or, unless having had the above named advantages, she may re-

not necessary that it is a half pound of sirloin forever. The round is as nutritious as the loin, and the "sunny side" is as good as the tender inside portion if rightly prepared. Likewise, the other cheaper roasts and stems need only the hand of skill to render them as properly fit as those portions which are now so insistently de-

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Hog House Floor Discussion.

To the Editor of The Homestead:

I have just been reading an item in your columns, the subject of which was "Floors for Swine." As I have recently built a hog house, the floor of which was made under a plan the like of which I had not seen before, I thought a few words regarding it would be acceptable in the discussion of this all-important subject. I, like many others, was studying on a plan for a floor that would be warm yet keep its level shape and I was afraid a floor constructed of concrete would not answer the purpose, nor did I take to the idea of a board floor, partly on account of its decaying and also on account of its being a rat harbor, it placed close to the ground, and cold if built high so the wind could blow under. I graded up where I wanted my house, then set my posts, after which I spiked 2x8s on them around the bottom. Then taking woven wire fencing I stretched it to top of 2x8s and covered it over with dirt. Then I erected my hog house and I am well satisfied with the idea so far and think it is an ideal plan, for a hog seems to naturally take to a dirt floor and, of course, the woven wire keeps him "on the surface." Understand, I do not claim this idea to be original with me, for I had previously read articles concerning it. W. W. Young.

Fremont county, Iowa.

I see that someone is wanting some ideas about hog floors, so I will give mine. I think the dirt floor with a good, woven fence, securely put down, makes the best all-round floor that I have ever heard of. I built a hog house this fall, 14x30, including an 8x14 cellar on one end for vegetables. I put a three-foot concrete wall five inches thick around the outside and walled up the cellar the same. I tramped in about six inches of dirt all around the floor, good and solid, and was careful to get it level and even. Then I went to work and drilled four holes through the wall in each end, level with the floor. I had eight eye bolts made with about three inches of thread and two pieces of gas pipe, just long enough to fit between the walls on each end. Then I slipped four of these bolts on each pipe, put the bolts through the holes and started the nuts on. Then I tied the woven fence to the pipe on each end as tight as I could draw it by hand. When I had it all fastened securely I was ready to tighten it by turning the nuts on. When I had drawn it tight enough to make it sing it looked good to me, but the job wasn't quite complete. I cut some pieces of No. 9 wire about three feet long and bent them into the shape of a hairpin and drove them in the ground three feet apart each way, over the whole floor. The woven fence should have as small a mesh as it is possible to get, and where the horizontal wires are more than three inches apart it should be lapped double so that it is impossible for the hog to get his rooster in the dirt. This floor is a little harder to clean, but I am sure if the hog had his choice between this and cement, the house with a cement floor would be empty. A cement floor is all right to feed hogs on, but I don't want any of mine to sleep on one. Emil Plagmann.

Keokuk county, Iowa.

In a recent issue of your paper a Kansas subscriber asks for information in regard to the best floor for hog houses, and for his benefit as well as any others who may be interested, I give my views which are backed up by considerable experience. I firmly believe that a properly constructed concrete floor has the most advantages and least drawbacks of any of the many kinds of hog floors. Please observe I say properly constructed. Two things must be borne in mind in regard to the construction of a cement hog floor, viz., never make it exactly level and never finish it smooth. One of the most common objections to the concrete floor is that it is wet, because no moisture can escape through it as is the case with other kind of floors. This wetness can be overcome by giving the floor a proper slant. If the hog house is made on the double row order—a walk through the middle and a row of farrowing pens on either side—make your walk level and a little

higher than the rest of the floor. Make the side floors; that is, those of the farrowing pens about two inches higher on the back side than they are next the walk. This will prevent swill from running back into the nest. It is also well to have a little end slant with a piece of tile to carry the water through the wall.

The slippery concrete floor is also the result of faulty construction. Do not finish your floor with a "top coat" troweled smooth as a sidewalk is finished. Make the cement mixture a little richer all through, say five to one and finish with a float or board. This will make your floor smooth enough so that a shovel or fork will run over it nicely in cleaning, but rough enough so that bedding will adhere to it better than on plank, especially hardwood plank.

In regard to a concrete floor being cold, it is my opinion that more people speak from supposition than experience. A concrete floor is laid directly on the earth; it is thus a conductor of heat from the earth to the nest. If a substantial house is built over it with a few hogs inside, it will be the warmest floor I know of. What could be colder than a plank floor stuck up a foot or two in the air (as they usually are) with the cold air beneath coming up through the cracks between planks?

As to sanitation the concrete floor certainly heads the list. No swill or excrement can seep through it as is the case with plank, brick or any other floor, to decompose and send back odors, fumes and disease germs for the hogs to breathe. The concrete floor baffles the attacks of rats and mice and even vermin find no lodging place here. It is warm in the winter and cool in the summer because its temperature is governed by Mother Earth. It is easy to clean, needs no repairs and can be readily disinfected in case your hogs should ever have cholera. G. A. Hunter.

Delaware county, Iowa.

Although I would not advise concrete for a sleeping or farrowing floor, yet as a feeding floor, it cannot be beaten. We have two hog houses and one has a plank floor, the other an earth floor. I prefer the earth floor, and to prevent rooting holes so that the little pigs will not huddle together in the bottom of the nest and the larger ones lay on them, I would advise stretching hog wire over the floor and then covering with from two to four inches of dirt before bedding. Subscriber.

Woodbury county, Iowa.

We have had plank or board floors for hogs, also dirt floors. We like board floors all right, but the cost is an item to be considered, and on account of the slight cost we like a floor of common fence wire covered with dirt the best. We placed a 2x6 sunk in the ground just inside of the building even with the top of the ground at each side or end, and tacked the ends of the wire to them. The side of wire can be tacked to the side of the house. The splicing of the widths of wire is done by just overlapping and a long wire staple made of wire driven down to hold them together, a foot apart. After all is well stapled down, an inch or two of dirt is spread over. We have a floor made in this way that has been a perfect success for years. It is always dry and there are never any holes in it. We bed it down and the hogs are dry and comfortable, and in my opinion it is far better than a cement floor, and much cheaper. The inside dirt of the hog house should be higher than the level dirt on the outside, to insure dryness. Such a floor is easily cleaned and is perfectly satisfactory and durable.

Mrs. C. M. Clark.

Montgomery county, Iowa.

Raised Colt on Skim Milk.

In reference to the feeding of skim milk to colts, Mr. L. C. Litchfield writes to one of our exchanges, as follows: "We have brought up a two-year-old filly on skim milk. This was a standard trotting filly, and was a large and vigorous animal, larger at two years old than her sire or dam were at maturity. This mare had rather a hard show till she was five, as she was 'farmed' out for her keep

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but the bone and constitution given her by liberal skim milk feeding in colthood and the disposition to get there which was born in her never went back on her, and a few months of careful handling after her return were enough to put her in nice trim again. We have frequently fed skim milk to colts, both trotting bred and drafts, with the best results. In the autumn of 1905 we had quite a number of horses. Desiring to wean a colt, we put him on separated milk. He soon learned that when we came to the cow house to feed the calves he was to be fed, and would climb into his manger with forefeet and beg for skim milk. We fed him from a pint to three pints twice a day from the time he was about four months old, and he grew like a weed. He was part Clyde, and both bone and muscle were well developed for a yearling."

THE VEAK DUROC JERSEY SALE.

A splendid crowd of breeders attended the sale of Mr. C. E. Veak, at Essex, Iowa, on January 25th, and the entire offering was disposed of at an average of \$48.88. The attendance of farmers was quite large here, but they did not buy with the same eagerness that they have done at other sales this winter. The offering was very excellent, and was appreciated by those who came to buy. The top was \$101 for Proud Sixteen, and she went to Mr. H. S. Allen, of Russell, Iowa. We would have liked very much to have seen some of the sows in the sale bring more money, but on the whole the sale was very satisfactory. Colonels Luther and Manifold were the auctioneers for the occasion. Below is a list of sows sold:

Lot.	Price.
2. Proud Sixteen, H. S. Allen, Russell, Iowa.....	\$101
3. Village Queen, S. J. Madison, Nevinville, Iowa.....	80
4. Ruberta Belle, Arnold Johnson, Essex, Iowa.....	36
4½. Geo. E. Johnson, Essex, Iowa.....	70
5. Model Queen, Wm. Walkinshaw, Griswold, Iowa.....	46
6. S. J. Madison.....	87
7. Geo. E. Johnson.....	51
8. Scxsmith & Strong, Greenfield, Ia.....	65
9. O. J. Cowle, Villisca, Iowa.....	66
10. H. E. Davis, Corning, Iowa.....	46
11. L. F. Colter, Corning, Iowa.....	51
12. Lyman North, Essex, Iowa.....	46
13. W. B. Wilson, Delta, Iowa.....	39
14. T. J. Link, Winterset, Iowa.....	42
15. M. R. Shutwell, Shenandoah, Iowa.....	44
16. August Hager, Avoca, Iowa.....	52
17. A. Latimer Wilson, Creston, Iowa.....	40
18. Oscar Brush, Coin, Iowa.....	46
19. Same.....	49
21. Arnold Johnson, Essex, Iowa.....	48
23. R. J. Harding, Maedonia, Iowa.....	40
24. Pfander & McClelland, Clarinda, Ia.....	40
25. Geo. E. Johnson.....	40
26. J. D. Isaac, Red Oak, Iowa.....	36
28. John Goddard, Harlan, Iowa.....	34
29. H. R. Davis, Corning, Iowa.....	41
29½. James Reynolds, Defiance, Iowa.....	41
30. Arnold Johnson.....	31
32. Same.....	25
33. A. L. Mossman, Radcliffe, Iowa.....	34
34. Luther Hultine, Essex, Iowa.....	31
35. Hanks & Bishop, New London, Ia.....	71
36. M. S. Moats & Son, Missouri Valley, Iowa.....	55
37. Lyman North, Essex, Iowa.....	46
38. Waltemeyer Bros., Melbourne, Ia.....	51

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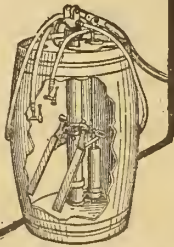
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UP-TO-DATE SPRAYING.

Twenty years ago spraying was in its infancy. The conditions were not fully understood, and extravagant hopes were entertained. It is the habit of the mind to expect great things, to reach out to ideal attainments. It is only by experience that we learn the vast difference between the ideal and the probable, in the possible results of our labor.

We are now down to bed rock in the theory and practice of spraying. The experience of twenty years, with failures and successes enables us to adjust theory and fact, in their right relations. We know now the practical difficulties, and the sure rewards of the work. Looking over the whole field, and taking the testimony of practical men by the ten thousand, there is no denying the evidence that spraying pays. Yet there is a minority report expressing dissent in very positive terms. So we must conclude that there are two sides to this question, and that there are circumstances and conditions under which spraying is a failure.

The same general principles which make for success or failure in all human endeavor, govern orchard spraying. For success, it must be done intelligently, skilfully, persistently, and preferably on a large scale. The reverse of all this means the same poor work which spells failure in any undertaking. There is another element to be considered, which often changes results, and that is weather conditions. Frequent rains at spraying time make it very difficult to secure results. It is this fact which gives fruit growers of the irrigated regions an immense advantage over the fruit growers of the Mississippi valley. It forces the latter to make up in persistence what they lack in favorable conditions. The advantage of spraying upon a large scale follows from a general law. Any productive labor is more effectively done when the size of the job warrants the use of the very best tools and appliances, and systematic methods. This fact does not shut out the small orchardists, from the benefits of spraying, but it does make it more difficult for him to succeed.

The requirements for successful spraying may be briefly stated as follows: (1) At the beginning make such a study of the subject, and of your own needs that you will know exactly what you are doing. (2) In buying machines, and materials, be sure you are getting the best in the special grade you take. Shoddy pumps, and adulterated chemicals, are worse than nothing. (3) The preparation of your mixtures requires care and patience. Haste will not do here. Be exact and particular in every detail. (4) The times of application must be carefully followed. The season waits for no man, and a day lost at the right time can never be regained. And remember that the tendency now is to more frequent applications. You may easily fail because you do not spray enough, but if your mixtures are right you cannot use too much. (5) Do not abandon spraying because you have an off year, with no fruit. The work is to maintain the healthy condition of the trees, as much as to insure a present crop. Regular work keeps the insect swarm at ebb tide.

The Work of a Rainy Day.

To the Editor of The Homestead:

After cleaning out the old grove during the winter of all its dead and unprofitable trees, it appears rather thin in spots—open places occur in the canopy of tops that threaten to let in the sunshine and start the grass. The first rainy day in the spring, when it is too wet to work in the field, is an ideal one for us to under plant the grove—just as we would introduce new blood into an old live stock herd.

In anticipation of the inevitable rainy day, we order our stock early

from the local nurseryman and have our young trees arrive a week or two before we actually expect to use them. When the box of trees is brought home from the express office, it is opened and the roots of the trees are buried deeply in the soil in some shaded place; care being taken to tramp the soil down firmly to prevent the drying out of the roots. When the bundles of little trees have been separated and set firmly in the soil the covering is wet thoroughly and in this condition they will keep nice and fresh until we get a rainy day suitable for planting.

Our first object in renewing the old grove is to establish a young undergrowth that will gradually take the place of the old timber as it is removed, so as to form a permanent plantation. Our second object is to supply fence posts for the farm. To meet these demands we will choose the white pine, the white spruce, and the hardy catalpa. If we plant six by six feet it will require approximately twelve hundred trees per acre. The age of the stock we are to purchase will depend upon the species; catalpa should be one year old seedlings, while the spruce and pine ought to be three-year-old transplants.

The spruce should be placed on the north and west sides of the grove because of its low, thick-branching habit which makes it an ideal windbreak tree. Two rows of this tree, placed ten feet apart in the row, will be enough to form an effective windbreak. The trees of the inner row should be placed opposite the spaces of the outer row so that better protection will be offered from the wind. The spruce is a slow grower, and one from which very little returns can be expected, except its value as a wind break, for a long period of time.

Catalpa will produce a fence post more durable than the white cedar, in ten years, when a light thinning in the grove can be made and the material used for this purpose. The trees should be set six by six feet apart in the openings made in the old stand. We must bear this in mind, however, that catalpa is very particular about its supply of light, so that if it is planted beneath the shade of the old trees, it will die in a few years unless this shade is removed.

White pine can be planted in the thicker part of the old stand, as it, unlike the catalpa, will grow even better for the first few years when a partial shade is above it; then the old trees will be ready to be taken out so that the pine will have possession of the soil. The hardness of white pine, its beauty, and the value of its timber when manufactured into lumber, make it desirable for planting.

In planting the trees one man makes the holes with a spade, being careful to open the sod up for a distance of about eighteen inches about the tree. A second man follows with a basket in which the plants are carefully wrapped in moist cloths. When the trees are set the soil should be packed down as firmly as the heel of a vigorous man can make it—this gives the roots a foothold in the soil and prevents them from drying out.

It will not be necessary to set the trees in rows; just fill in the old stand so that the young trees will stand not closer than six feet, nor more than ten feet, from any other tree. All live stock will have to be kept out of the grove to prevent the young trees from being destroyed. A shot gun should be used on the rabbits for the first two winters after the planting is made, as these animals are liable to bark the young catalpa.

W. G. Baxter.

Oyster Shell Scale.

To the Editor of The Homestead:

The oyster shell scale attacks the apple, pear, plum, cherry, wild grape, elm, lilac, and some other trees and shrubs. It is found not only on the bark, but also, when abundant, on the fruit in the case of the fruit-bearing



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A. H. Ferry Seed Co., Box 303, Clarinda, Ia.

trees. When abundant, it may do much damage, sometimes, indeed, killing the plant outright. When it can be kept out or killed on its first introduction, much damage to our orchards may be prevented.

The insect passes the winter in the egg state, the eggs being under the scale which you see on the bark. The young hatch in May, or early in June, into minute, yellowish insects which are just visible to the naked eye as they run about on the bark. They soon settle down on the bark and begin to form a scale. The females never move from this spot, but continue growing until they reach maturity in the early autumn. The males reach maturity with the females and transform into a winged insect which issues from beneath the scales and flies freely about. After fertilization, the females begin to lay the eggs, their own bodies shrivelling up until they have reached the condition in which they are found during the winter.

Among the best methods of treating is to spray with kerosene emulsion at the time that the recently hatched young are running about on the bark. Sometimes two sprayings, a week apart, are necessary to kill them all, especially in case the weather is unsettled, causing them to hatch during a considerable period.

To make kerosene emulsion, dissolve one-half pound of hard soap in one gallon of boiling water and pour, boiling hot, into two gallons of kerosene, churning violently until the mixture forms a white, creamy mass without the kerosene rising to the top. The churning is best done by passing through a spray pump. For use, dilute each gallon of the emulsion, made as above, with nine gallons of water.

H. E. Summers.

Iowa Experiment Station.

The Home Grounds.

Every family can have a garden. If there is not a foot of land, there are porches and windows. Wherever there is sunlight the plants may be made to grow and there are a few plants which will grow in shady places. And one plant in a tin can may be more inspiring and give more pleasure to one person than a large, well planted lawn would to another. Pleasure in gardening does not depend upon the area nor happily upon the cost and rarity of plants. The primary purpose of the home flower garden, I think, is the pleasure it gives, whether through the eye or otherwise. One person may experience a great pleasure from the simple aspect of a place without recognizing any individual plants. Another may be made happy by a love for each plant, recognizing that he is living with, and enjoying the comforts of association with his friends, while yet another may rejoice in the fact that the garden may be used for the purpose of yielding a revenue, though each may be a genuine object of beauty and a joy forever. How much more pleasure there is in a garden which partakes of all these features! It is not possible for many gardens to provide a place, for what one may consider the choicest of all plants. Conditions will not suit the requirements of all. I may like Japanese maples, but Japanese maples are not suited to the climate in which I live. I must learn to love the plants that I can grow. "That man is happier who has no rigid idea," as Professor Bailey says, "for gardens are coquettish, particularly with the novice. If any plants grow and thrive, and if the plants which thrive chance not be the ones which he planted, they are plants nevertheless, and we must learn to love them. We are apt to covet the things which we cannot have, but we must learn to love the plants which grow because they must. A patch of lusty pigweeds may be a better and a more worthy object than a bed of Coleus in which every spark of life and spirit and individuality has been sheared out and suppressed. The man who worries morning and night about dandelions in his lawn will find great relief in loving the dandelions. Happiness often is the quality of the person, not of the plant or the garden. "I do not mean to discourage an effort to have those plants which we consider the choicest and which may be the more difficult to grow. I would rather encourage the effort, for therein lies the progress which has been made in growing of many plants it was not

Corn Crop Failure!



That's What the Greatest Corn Experts Predict the Coming Season

for the Farmer Who Does Not Test His Seed Corn Before Planting

This prediction is not exaggerated. You, your neighbor, in fact every corn grower in the corn belt is facing a crisis this year and will be compelled to solve one of the most important problems of a life time.

It's a problem that means much to you, either a good healthy corn crop next year, or corn crop failure, great financial loss, wasted time and labor. The outcome all depends upon the matter of testing and selecting your seed corn.

Prof Holden says: "Early frost damaged seed corn and is poorer in quality than any he has seen in the seven years that he has been in Iowa."

Dr. Chappel, of the Iowa Weather and Crop Service, says: "Fifty per cent of the seed corn this year will not grow."

Other corn experts say the same. You know it to be true. What are you going to do about it? Will you wait until planting time and then trust to luck on getting good seed corn, or will you take the safe, sure road to success by testing your seed corn now? It's time to decide.

Holden's Ideal Seed Corn Tester

Is the Simplest, Safest Way to Test Your Seed Corn and Prevent Crop Failure

You may be the best judge of seed corn in the world; you may be able to pick a perfect ear from among a thousand; but when it comes to picking out an ear possessing the right germinating qualities, the greatest experts in the world will fail.

The simplest, quickest and surest way to do this important work is with Holden's Ideal Seed Corn Tester. It insures the right quality seed and means from 15 to 30 bushels more corn to every acre. That's worth while.

Figure it out yourself. Take the average ear of corn and it contains about 1,000 kernels. Each kernel planted should produce a stalk, each stalk an ear. A dead ear planted means the loss of 1,000 ears, or 12½ bushels. Just think what that means.

Can you still question the importance of testing seed corn? Will you continue planting and raising corn in a haphazard way? Will you continue to be satisfied with a small crop when by a few hours' work and a few dollars invested in Holden's Ideal Seed Corn Tester you can make your corn crop certain and insure the greatest possible return for your time and labor.

Holden's Ideal Tester is the greatest invention of its kind in the world. It has been tried and tested in every manner, shape, and form. The results have proven that it is the simplest, quickest and surest way to determine the germinating qualities of seed corn.

Hundreds already in use. Every farmer who has one says it's great. Those who have seen it work won't be without one. You need one and after trying you would not part with it for ten times its cost if you could not get another.

Holden's Ideal Tester Made in Four Sizes

No. 1, of which picture is shown, is a five-bushel tester; tests 400 ears at one time and is just what the ordinary corn grower needs.

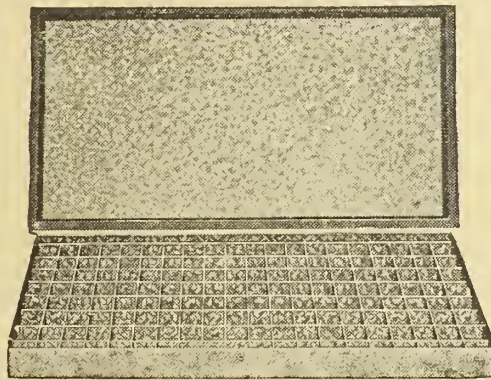
No. 2 is a five-bushel cabinet tester, especially made for the man who wants to do his testing in barn or seed house.

No. 3 is ten-bushel cabinet tester for the man who plants a large corn crop.

No. 4, picture herewith, 2½-bushel capacity, is for the small corn grower.

Each machine does the work it is intended for quicker, surer and better than anything on the market. With these different sizes at the low prices for Holden's Ideal Seed Corn Testers are within the reach of any farmer.

No 1, Price
\$10.00



No. 4, 2½-Bushel Capacity, \$5.00

Try Holden's Ideal Corn Tester FREE

That's a fair and square offer. That's the easiest way to convince you that Holden's Ideal Tester is what we claim. That's the quickest way to overcome any doubt that may exist in your mind. Write today for catalogue. Select the machine you want. We'll send it on trial. Test a batch of corn. If not satisfactory return it at our expense and we will return every cent of your money. That's a plain business proposition.

You take no chance, you risk nothing, so don't delay. Time travels fast. Planting will be here before you know.

Get Ready Now

Cut Out Coupon. Mail it Today. Get Our FREE Catalogue and Trial Offer Proposition.

The catalogue tells all about it; shows the different sizes of Holden's Ideal Tester that we manufacture. The FREE TRIAL offer is the best ever made.

If you have already seen these Testers at the corn shows, and like many other farmers, don't want to bother about catalog, but want a machine immediately, send remittance of \$5.00 for No. 4 machine, or \$10.00 for No. 1, and we'll ship either of the two immediately on receipt of remittance and order. You'll save time doing this and take no risk, because we can't be held responsible and guarantee to return your money if the Tester you receive is not satisfactory.

If you want references, write to Iowa State and Savings Bank, Wallaces' Farmer, Homestead, Successful Farming, Register and Farmer, or any other business house in Des Moines.

Send orders and remittances to

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1115 WALNUT STREET
Des Moines, Ia.
Name _____ Town _____ State _____
Gentlemen—Kindly send me your Free Catalog and Free Trial Proposition on Holden's Ideal Corn Tester.

possible to succeed with a few years ago. But we must not lay down any hard and fast rules, because of the varied conditions. One person may attain ideal results with certain plants and certain treatment, while his neighbor just over the fence may not succeed with what seems the same care. The mysteries of nature are often beyond our comprehension. Even where other conditions are the same, the plants will respond to a loving embrace of a friend while they may remain dumb to the most careful touch of a stranger.—(Prof. H. C. Irish, in Horticultural Report).

Federal Inspection of Nursery Stock.

In January, 1909, the authorities of the state of New York informed the department of agriculture that the brown-tail moth had been found in that state in shipments of seedlings received from Angers, France, says the secretary in the 1909 annual report. Later it was learned also that the winter nests of this pernicious moth had been found in Ohio on seedlings imported from the same French locality. By arrangement with the treasury department and the principal railroads the department was then promptly notified of the final destination of all cases of plants received, and was thus enabled to notify state inspectors or other competent persons near the destinations. Notices of nearly 800 shipments, divided among thirty-five states, were thus sent out. In fifteen of these states nests of the brown-tail moth were found.

Proper inspection was probably had in all cases, and it is likely that this concerted effort to prevent a new introduction of the brown-tail moth was for the time successful, says Secretary Wilson in his annual report.

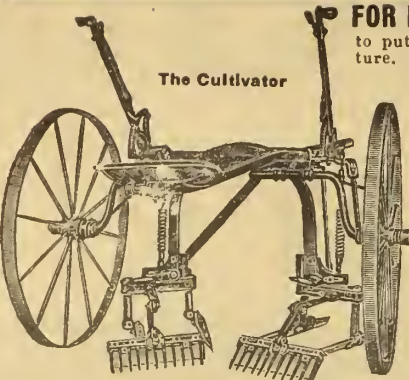
Under our present laws, however, these shipments might easily have been overlooked, and the considerable expenditures which for several years we have been making in the warfare against the brown-tail moth would then have been to no purpose. Moreover, unless additional legislation is secured we are in constant danger of such introduction of pernicious insects from abroad. We can not depend

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SALES 8,940 1909

The Cultivator



The Pulverizer



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THE J. D. TOWER & SONS CO., 40th Street, MENDOTA, ILLINOIS.

upon the inspection systems of foreign countries. These may be rigid in one country and lax in another, or in any country there may come a period of laxity during which insect pests destined for this country may escape detection. Neither can we depend upon the law now on the federal statute books which prohibit transportation companies from "knowingly" bringing into this country, or carrying from state to state, any insect which is "notoriously injurious." Although this law also forbids the conveyance of "notoriously injurious" insects in the mails it is nevertheless insufficient, and there is, besides no provision for its enforcement.

What we need is a federal statute which shall not only forbid the importation or interstate transportation of injurious insects in all stages, with adequate penalties for its violation, but also provide for a thorough system of inspection and quarantine at ports of entry for nursery stock and other materials on which such insects may be imported, as well as a sufficient means of control of interstate transportation of such materials.

Such an inspection, in conjunction with the admirable systems now in existence in the states, would provide the country with a reasonable degree of protection against additional introductions of insect pests.

Getting Most Out of the Wood Lot

By I. H. Motes

In the older settled states of the middle West, where most of the valuable land is cleared, and where very little can be spared for tree growth, it is important that small areas be so handled as to yield the greatest amount of timber.

The farmer who understands something of forestry can manage his wood lot so as to get twice as much timber from it every year as can the man who has never made a study of trees, and with no injury to his timber tract. He can take a five-acre grove which has received no intelligent attention, clear three acres of it for grass land, and make the remainder furnish more timber than the five acres did before, provided the grove is on rich, moist land. The three acres of grass land will be more valuable as pasture than were the five acres of neglected timber before, with perhaps a thin cover of grass upon it, for grass growing among trees has very little nutritive value, even if of plentiful growth.

The amount of timber you can cut from two acres will depend largely upon how rich and moist the ground is, but quite as much upon the kind of trees grown, how mixed, and the care given them. It will depend upon the number and kind already standing there—the kind you start with—whether tolerant or intolerant of shade, and whether the forest is a two-crop forest—that is, small, tolerant trees under large ones, either tolerant or intolerant.

If your wood lot contains many open spaces they should be set out immediately with young seedling trees. On moist land the best trees for this planting will be cottonwood, black walnut, white oak, white hickory, water oak, catalpa, willow, honey locust, black locust, elm, coffee tree, black arbor vitae, tamarack, tupelo, silver maple and red maple and beech. If on

high, hilly land they should be chestnut, post oak, scaly bark hickory, white ash, green ash, hackberry, red oak, most of the pines, white elm, osage orange, persimmon, European larch, box elder and Russian mulberry. Some of these will do as well on moist land.

If the grove already contains a good growth of tall trees, and but little undergrowth, as would probably be the case if cattle have grazed on the land, underplanting should be done at once with tolerant trees and all stock excluded. The best for this purpose are birch, the oaks, spruce, beech, maple, Russian mulberry, osage orange, hackberry, box elder, cottonwood, hemlock, ironwood, blue beech, hawthorn, white spruce and sugar maple. If large trees stand thick on the ground and contain heavy foliage they should be thinned out and underplanted with any of the trees last named, suited to your locality, preferably those which grow rapidly, and are good for firewood, fence posts and building material. If the grove is thin and the trees small, the wide spaces should be planted with black walnut, European larch and black and honey locust. If it contains many black jack, blue beech, hawthorn, prickly ash, cottonwood, box elder and willow trees, they should be cut down gradually, say a fifth of an acre a year, and replanted with more valuable trees with thin leaves, which may be planted thick. Intolerant, thin-leaved trees will grow thick when not associated with densely foliated trees. They are not as sensitive to the shade cast by their own species as to that of trees with heavy foliage. European larch trees will grow much better in groves by themselves than with black jack or blue beech. If on hilly land they may be set out in rows, two by two, or four by six, with hickories

BIG MONEY IN OATS

STIFF STRAW WHITE BERRY BIG YIELDER

Look at This Cut; from a Photograph Taken of Two Stalks from Galloway Brothers' Field; Over 200 Kernels to the Stalk.

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THE GREATEST OAT ON EARTH

If You Raise the Right Kind. Here's Your Chance to Get Them. Imported Canadian Seed Oats for Sale.

THEY have proven their worth in this country from different reports we have received from farmers who bought last year—some of them doubling, and in many cases tripling their crops from this seed, as compared with their old run of inbred seed.

Send for free sample which will speak for itself, or send ten cents for good-sized packet of one or both kinds of these oats.

Try some of these wonderful oats. We make a specialty of growing our big Canadian farm. New clean land; no weeds; located at LaJord, Sask., Canada. We have best-known varieties. Regenerated Swedish Select went 116 bushels to acre. Most wonderful oat we have ever seen. This may look like a big yield to farmers of this country, but it is true just the same. They stood 5½ feet tall; have stiff straw, large, plump, white grain, very thick husk, and an early variety. For this seed we originally paid Orton Bros., of England, \$2.00 a bushel for 250 bushels, put them in a specially prepared ground, and will vouch for their quality.

We also have a quantity of Early New Market Oats—Canada's very best-known variety and an enormous yielder.

Here's what farmers write us who have bought last year:

W. McConnell, Baldwin, Wis.—"We threshed out 85 bushels per acre; stood up better than any other oats."

John Stuppy, Lowell, Ind.—"The came up to my chin and nose before they started to head."

G. F. Gross, Erhart, Ohio—"Sixty bushels per acre, weighing 40 pounds per bushel. Very good oat and do well in this climate."

John P. Otto, Iowa, Iowa—"Stood up in fine shape; turnout was good. 90 bushels to acre by weight. They weighed 41 pounds to the measured bushel."

B. B. Maguire, Rush City, Minn.—"I planted eight acres of Early New Market, and have 60 bushels in my granary machine measure. They weighed about 34 or 35 pounds per bushel. Stood up better than two other kinds I had. No question but what you could sell a lot of it here for seed."

W. C. Bryan, Jordan, Minn.—"Threshed 64 bushels per acre. Only wish I had gotten more of them."

Adam Czerwinski, Chetek, Wis.—"Early New Market turned out good. Went 100 bushels to acre. Weighed 34 lbs. per bushel."

Wetzel Bros., Floyd, Iowa—"Your Early New Market oats did just wonderfully; grew 4½ ft. tall; stood up fine till they were cut; went 65 to 70 bu. per acre. Had other oats that went about 25 bu. per acre by measure. Could sell all we raised a dozen times over to our neighbors."

This is what people say who have tried these oats in this country. We believe it will pay you to try some of this new seed. There is more money year in and year out in oats than any other grain, if you raise the right kind. They are easy to raise and generally a sure crop.

Why are oats higher today than they were in former years? Simply because the farmers have been sowing the same old oats over and over again—oats that are inbred and run out, and yet they wonder why they do not get a better crop.

Try some of our new seed. There is big money in raising even 50 and 60 bu. of oats to the acre. At the present price of land you cannot afford to sow inferior, inbred seed any more than you can afford to breed your herd to an inbred bull. It is as easy to put in and harvest a big crop as a small one.

Remember, Northern-grown seed is the kind of seed for this country. All the oats we have to offer are guaranteed to be clean, free from foul seed, and, according to Canadian Government Grain Inspector, they grade No. 1 White—almost an unknown quantity in the United States.

Here is what Professor M. L. Bowman, former professor of Farm Crops, Iowa Agricultural College, says.

"I visited Galloway Brothers' big farm in Canada, and was much impressed with the way they farm. I saw these seed oats they are offering. They are fine, pure, clean, big oats, and I believe it will pay any farmer to try ten or twenty bushels of this seed.—M. L. BOWMAN."

If you are interested in any of this grain, write us at once for free sample, or send us ten cents for a packet of one or both kinds. We will also mail you free our little booklet entitled, "Big Money in Oats and How to Grow Them," with authority on how to increase the yield. The oat yield of this country could be doubled if the farmers would follow instructions in this book, gotten out by Prof. M. L. Bowman and Galloway Brothers, Oats Specialists.

Don't wait until it is too late. Many people were disappointed last year in not getting seed from us, because they waited until our supply was run out.

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FARM AND HOME is the brightest little magazine published for all who love land, garden, fruit and flowers, poultry, horses, live stock, pets, home, family. It is published twice a month, a year's numbers containing over 500 pages. It is full of vim, sympathy, and co-operation. No better proof of its popularity can be offered than its immense circulation, reaching upward of three million readers.

Send 25 cents today in silver or stamps, and receive this most instructive publication and the ten packets of seeds, as described above. Satisfaction guaranteed or money refunded. Address

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Test it any way you please for 10 days. If not perfectly satisfied return it at our expense and money will be refunded. We have doubled our seed house this year and now have a capacity for 25,000 bu. Our house is full of choice seed. Best varieties only.—Sutton's Favorite White, Sutton's White Dent, Improved Boone Co. White, Johnson's Strain or Reid's Yellow Dent, and Gold Standard Leaning. All corn carefully selected as it comes from the field and placed in our mammoth dry house and perfectly dried by steam pipes, electric fans and air shafts. Used over 1,200 acres in selecting our seed this year. We ship in ear or shelled. Write today for our beautiful corn book and catalog telling you how to grow a big crop of corn. Book and samples free.

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FREE SAMPLE Ask for sample and compare them with any other seed oats on the market. Catalog of Seed Oats, Wheat, Corn and other seeds free on application.

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- Rel. Bonanza Oats, backed by four field farms for biggest yield.
- Billion Dollar Grass, the Ten Ton Grass Wonder.
- Salzer's hardy, luxuriant Alfalfa, endorsed by Gov. Hoard as the best on earth, and
- Five other packages.

All for 10¢ in stamps, or send 14¢ and we add a package of Nameless Corn for you to see and name and win

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Write to-day. We are the largest growers of farm and vegetable seeds in the world. Catalogue free.

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FREE SEED OFFER

If you will write for our big seed catalog at once and send us an order amounting to One Dollar or over within thirty days from the date you receive our catalog, we will send you absolutely free with your order, a large collection of new varieties of seeds, sufficient to grow \$50.00 worth of vegetables and flowers.

Hunkel's Seeds are known everywhere—sow them in 1910 and grow record crops. Our 1910 catalog of Farm and Garden Seeds is bigger and better than ever. Write for catalog today and take advantage of our big \$50.00 free offer.

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A Seed Drill and Wheel Hoe is indispensable—not only in a village garden but on largest farms. Farmers should grow all manner of vegetables and "live on the fat of the land." Should provide succulent roots for Cattle, Swine, Poultry, and save high priced feed stuff. Great labor-saving tools of special value for the home as well as the market garden. Send for free book.

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Platte Valley Peerless Seeds protect planters. Don't buy doubtful seeds when you can get reliable seeds for the same price. Special Offer: 4 pkts Royal Aster, Mammoth Verbena, Giant Pink, Flower, also 10 varieties Annual Flowers and 10 sorts Spencer Sweet Peas, all for 10¢. PLANTS 5 Roses 25¢; 5 Geraniums 25¢; 5 Begonias 25¢; 4 Pelargoniums 25¢; 3 Peonies 25¢. FREE Catalog and pkt. Giant Pansy

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Choice field and garden seeds. Good clover, timothy, etc. Ask for samples and catalogs.

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would not do well closer than twenty feet, while if black walnut were mixed with hickories and set five by five the walnuts would die by the third year.

Large walnut trees, however, may be underplanted with hickories, oaks or any tolerant trees suited to the locality. The smaller your tract available for tree growing, the more important is it that you grow only thin-leaved trees, which will stand crowding in the grove, such as black walnut, black and honey locust, mesquit and Osage orange. Therefore let your forest be a two-crop one, of old, thin-leaved trees underplanted with oaks and tolerant trees, but remember that even intolerant trees do best in the shade for a year or two, as too much heat and the glare of the sun scald them or kill them for some other reason. But intolerant trees will die soon if they do not get plenty of light after growing a good root system.

When the old trees in the two-crop forest are cut down the stumps will sprout, and this new growth should keep pace with the seedlings and small saplings in the second crop. Stumps should be cut low and slanting, and when they sprout the following spring allow at least two of the healthiest to grow, and cut all the others away. Save sprouts which start in the edge of the ground, so they will quickly form root systems of their own. Sprout growth makes a valuable forest, because the young trees are straight, and grow rapidly.

The second crop of trees, which is apt to be a mixture of tolerant and intolerant ones, will not endure crowding as well as the first crop of large, thin-leaved trees, so they must be kept thinned out as the tops grow larger. In thinning take out all deformed trees, and any tree that is overtopping its near neighbors. The more uniform you keep your trees as to height the more wood your lot will furnish. The judgment with which you take care of young sprout forests, and mix planted seedlings with them wherever open spaces occur, will largely measure your success as a grower of wood. Some trees grow faster than others. All sprouts grow faster than seedlings of the same species, but seedlings of some species grow about as fast as sprouts of other species, so you should fill open spaces in sprout land with seedlings that make about the same growth as the sprouts. This knowledge is important, because old stumps lose their power to sprout in time, and the planting of seedlings becomes necessary, and it is important to know what trees will grow thick in combination with their fellows.

Among the most rapid growing seedling trees for planting among oak, hickory and black walnut sprouts are the poplars, cottonwood, aspens, eucalyptus, catalpa, locust, white willow, European larch, silver maple and box elder. Some of these are tolerant and some intolerant, but all grow rapidly. The eucalyptus are the most rapid growing trees in the United States, but are suited only to mild climates like southern California, though the forest service is endeavoring to introduce and acclimate some of the hardier species from Europe. The most rapid growing trees are not necessarily the best for the farmer's wood lot; however, the main purpose of the wood lot on the average small farm in the central West is to supply firewood, and the slower growing oaks, hickories and pines furnish the best wood, doubtless for the reason that such woods are drier when green, for rapid growing trees require more moisture than those of slow growth.

When the second growth of trees becomes old enough for building material, posts and firewood the thick-leaved trees should be cut first, so as to let the light in upon another growth of young trees which is to follow them, and if almost all are thick-leaved cut them clean from the land, a small portion at a time, and start afresh with the sprout growth the following spring, mixed in with such seedlings as will do well in combination with the sprouts; that is, make uniform growth. Where trees are of uniform size it is generally best to cut all those upon a small part of the wood lot, rather than a tree here and there. In the former case the young trees will have a better chance to

grow, as none will be overtopped by larger ones.

In some cases it may be better to cut all the trees in a natural grove, a certain portion every year until all are out, put the land in grass or annual crops and provide for your future supply of timber by setting out windbreaks on the north and northwest sides of your farm, and on whatever side drying winds strike it in summer, having these breaks wide enough to make sure of plenty of timber after your natural grove is cut down. Any natural grove containing a poor quality of trees standing on rich soil and in a position to mar the symmetry of your fields might well be cleared and planted windbreaks depended upon for timber supply.

It will be best to keep the grove as thick with trees as the land will stand, and not try to grow any grass among them, or use the land for pasture. By setting the trees thick, by fertilizing the ground a little and by digging around the trees a little in the spring with a sharp pick in time to catch the spring rains, where the summers are long and dry, you can make two acres of ground yield a greater profit when planted to trees than any other two acres on your farm. If necessary to allow the stock in the woodlot in summer to get the benefit of the shade, run a fence through the grove, cutting off a small portion containing large trees and confine the stock to this. In winter the stock may be confined in a small portion in the southern edge of the grove, the balance serving as a windbreak.

In utilizing trees for wood and other purposes, all parts of the top and trunk should be put to some use. Small limbs can be used for stove wood, and those too small for this can be utilized to fill up gullies which have begun to form. A small dry gully or branch which begins on your land and runs a hundred yards or so before reaching your boundary line may in time be filled up in this way, and pushed, as it were, entirely off your property. If you have no such gullies

GREGORY'S Special Flower Seed Offer

50 cents worth for 10 cents

1 package Aster Giant Comet, mixed,	5c.
1 package Thill Zinnia, mixed,	5c.
1 package Candytuft, mixed,	5c.
1 package Petunia, fine, mixed,	5c.
1 package Mignonette, sweet,	5c.
1 package Poppy, double, mixed,	5c.
1 package Coreopsis, mixed,	5c.
1 package Phlox Drummond, mixed,	5c.
1 package Pansy, mixed,	5c.
1 package Bachelor Buttons,	5c.

The above ten packages by mail postpaid for 10 cents in coin, together with our handsome calendar and our profusely illustrated catalogue for 1910. With the above collection we will enclose a certificate worth 25 cents. If returned with \$1 you may select seeds in packages or ounces to the value of \$1.25.

J. J. H. Gregory & Son
Murbiehead, Mass.

Grow Prize Winning Fruit!

You can't be too careful in selecting your plants and trees. Upon your selection depends the quality and yield of your orchards and beds.

Our 55 years experience has taught us how to produce prize winning fruit from hardy Northern grown trees, whose tremendous yield has astonished people everywhere.

We sell only to the planter direct and save him the middleman's profit. You can now secure plants and trees direct from the nursery at prices less than your dealer buys them for.

Here's our get acquainted offer! One 2-year-old Concord grape, postpaid for 10c, or 1 dozen Senator Dunlap strawberry plants, the leading market variety, postpaid for 10c.

Write us anyway—we'll send you our booklet and price list—it is full of some good tips to fruit growers. These tips will help you show your neighbors some results that will make them jealous. Write today.

KELLOGG'S NURSERY, Box, 225 JANESVILLE, WIS.

1/4 CENTURY OFFER

1/4 FLOWERING BECHTEL CRAB, FREE

A GEM among flowering trees: A theme for poets, wild, hardy, flowers double-shell pink, delicious wild crab odor. We give it and our beautifully illustrated Nursery Catalogue FREE.

A QUARTER OF A CENTURY in Sioux City! In its honor we make a grand offer to all customers. Four beautiful plants: Bechtel flowering, Crab and Paeony, two rare vines, six superb Cannas. Too good to miss. Catalog tells all about it, and how to plant, prune and care for trees. Most complete line EXTRA HARDY NORTHERN GROWN trees, shrubs, vines, bulbs, roses, perennials, paeonies, etc., in the northwest. Quality the best. Prices right. Write today for catalog 25.

SIoux CITY SEED & NURSERY CO. Sioux City, Ia.

GLOVER SEED

Timothy, Alsike, and other grass and farm seeds. Fancy new crop cleaned. Ask for prices. Catalog of all kinds of seeds free. Address **GUTHRIE-LORENZ CO.,** 431 7th Street, DES MOINES, IOWA.



Planet Jr.

The greatest time-savers and labor-savers ever invented for the farm and garden. They frequently do six men's work, and do it better than by ordinary methods. Over two million farmers and gardeners have found this out by actual use. You can't afford to be without a Planet Jr.

No. 17 Planet Jr. Single-Wheel Hoe is a most handy and effective tool for garden cultivation. A fine tool for working close to crops.

New No. 81 Planet Jr. Horse-Hoe, Cultivator and Furrower is a great implement for cultivating and hilling crops up to 4 feet apart Compact, strong, and steady-running. Get the Planet Jr. 56-page catalogue for 1910. It is free. Write today.

S. L. Allen & Co. Box 1105, Philada Pa

10c FLOWER GARDEN 10c

Our Mammoth Collection. 100 Easy Growing Varieties.

This is without question the grandest collection of flowers ever put up. They will produce a perfect cloud of bloom and fragrance from early summer until the snow falls. New beauties and wonders will open up every day. You can have bushels of blossoms of gorgeous combinations of shades and colors. Here are some varieties included:

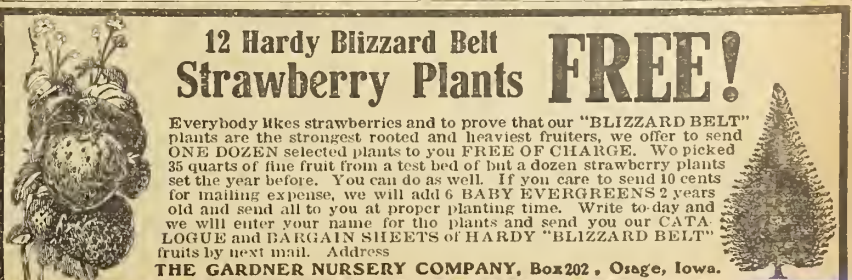
Asters, all colors	Prize Poppies	Sweet Alyssum	Portulacas, 10 varieties
Pinks, 10 varieties	Ageratum	Godetias	Love-in-a-Mist
Forget-Me-Not	Sweet Mignonette	Rose of Heaven	Clarkias
Petunias, 10 varieties	Calendulas	Nasturtiums	Glooming Bride
Sweet Peas, 10 varieties	Ricinus, 12 feet	Everlastings, 10	Joseph's Coat
Cockscombs	Gillias, mixed	Sweet William	Marigolds
Candytuft	Chrysanthemums	Calliopsis	Larkspurs
Four O'Clocks	Job's Tears	Weather Plant	True Ice Plant

This offer can not last long. The mammoth package will be sent for only 10c to prepay mailing, packing, etc. Send today. **MRS. L. B. LOWARY, 333 N. 24th Street, Quincy, Illinois.**

Guaranteed Seed Corn

Reid's Yellow Dent, Wimples' Yellow Dent, Early Murdock, Dakota Gold Mine, Clay County White, Minnesota No. 13, Pride of the North, Farmers' Surprise (white) extra early. All South Dakota grown. Booklet B tells all about it, FREE. Write for it, do it now.

TOTTEN'S VERMILION SEED HOUSE, VERMILION, SOUTH DAKOTA.



12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruited, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS OF HARDY "BLIZZARD BELT" fruits by next mail. Address

THE GARDNER NURSERY COMPANY, Box 202, Osage, Iowa.

WORLD'S GIANT TOMATO

This King of all Tomatoes is largest and most productive ever offered. Engraving was made from photo of plant grown by J. B. Gilbert. It grew 18 feet high and produced 6 bushels of fruit, very large, smooth, few seeds, solid all through, red in color, ripening very early and continuing all summer. We want every person who uses seeds to see our Seed Book and test our seeds and we will give sample packet this Giant Tomato, also 3 other great novelties free for trial: 1 pkt. 16 Day Radish. Earliest Round Red Radish in the world. 1 pkt. Gigantic Cabbage. Largest heading kind known, from Europe. 1 pkt. Wonderful Lettuce. Earliest, largest, tender and crisp any time. Heads often 3 ft. around. For only 6c. postage and packing we will mail these 4 sample pkts. and big 1910 Seed Book full of novelties, Seed Offers and a coupon, good for a 10c. selection from our Seed Book. Fairview Seed Farms, Box 122, Syracuse, N. Y.

PERFECT POTATO PLANTING

Every farmer knows the importance of proper potato planting. Here's a machine that does it perfectly. Has none of the faults common with common planters. Opens the furrow perfectly, drops the seed correctly, covers it uniformly, and best of all never bruises or punctures the seed. Send a postal for our free book.

SAVE HIRED HELP

IRON AGE Potato Planter

Iron Age (Improved Robins) Potato Planter

No Misses No Doubles No Troubles

BATEMAN MFG. CO., Box 148 P, GREENLOCH, N. J.

Hoyt's Evergreens

Grow 30 feet in ten years, 60 feet in 25 years. Cultivated "rooty" stock that has the growing habit. Our methods are correct, as shown by 40 years' success. Order direct from proprietors. Scotch Pine, 18 to 24 in. \$10 per 100. 2 to 3 ft., \$15. Norway Spruce, 18 to 24 in. \$15 per 100. 2 to 3 ft., \$25. White Pine, 18 to 24 in. \$15 per 100. 2 to 3 ft., \$25. Arborvitae, 12 to 18 in. \$10 per 100. 18 to 24 in. \$15. Other sorts and sizes; also carload lots very cheap. Stock grown at Scotch Grove, Jones Co., Ia. Address Hoyt Bros., Office at Monticello, Ia.

"MORE POTATOES"
From ground planted secured by use of the KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for catalog, price and full description. A. J. PLATT, Mfr., Sterling, Ill.

CLOVER
Now is the Time to Buy. Seed crop almost a failure. Prices bound to be higher later. Buy before advance. Write today for special low prices and free samples of our Pure New Crop Recleaned, Tested Clover Seed. Have Timothy and all grass seed. It is to your interest to get our prices and samples at once. 1910 catalog free.

A. A. Berry Seed Co., Box 103, Clarinda, Iowa

SEEDS THAT GROW
Best quality Vegetable, Flower and Farm Seeds. Alfalfa, Clover, Seed Potatoes, etc. We will send free with catalog a pkt. New Coreless Tomato, the best of all tomatoes. GERMAN NURSERIES & SEEDHOUSE, CARL SONDEREGGER, Pres., our Hount. or full Collection of Vegetables, Seeds, best 5 varieties on earth, postpaid for 40c. We also carry full line of Nursery stock. German Nurseries, Box 114, Beatrice, Neb.

STRAWBERRIES
250 Plants. Free Catalog and Sample \$1.00. MY STOCK IS ESPECIALLY FINE. Because I have my own perfected system of cultivation. Send for my Free Illustrated Strawberry Book. Tells you how to get started right, what varieties are best, how to grow them. Don't fail. Get your orders in early. THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IOWA.

EVERGREENS
30 Hardy Tested Varieties. Nursery grown, suitable for all purposes. \$5.00 and up per thousand. We have 50 millions. Our low prices will astonish you. Also Hardy Forest trees, Shrubs, Ornamental and Fruit trees, Vines, etc. Our beautiful Catalog is crowded with valuable information. This and 50 Great Bargain sheet are free. D. HILL, Evergreen Specialist, Box 216, Dundee, Ill.

Pure Kherson Oats
GUARANTEED. Best by test. Treated for smut. Does not lodge or rust. 1 per bushel, single bushel lots; 85 cents, 10-bushel lots or over. BAGS FREE. Aye Bros., Second St., Blair, Neb.

SEED OATS
I HAVE choice, re-cleaned seed oats for sale—Champion, Kherson and Swedish Select. For prices write G. GREGORY, Ralston, Iowa. C. & N. W., main line.

SEED CORN
Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped subject to your own test. Send for free catalog. L. C. Brown, LaGrange, Cook County, Ill.

the twigs, small limbs and bark may be cut into short pieces with a broad-ax and scattered upon impoverished fields.

Potato Secrets.

To the Editor of The Homestead:

Every farmer is supposed to know how to grow potatoes, or at least they think they know how, and it will shock their self-confidence to be told that there are some things they might yet learn about the business. It is well to keep in mind that there are but few so perfect in their line of work that it will not pay them to inquire about yet more perfect methods.

There is much written and published about potato culture, yet writers, whether practical, or theoretical, usually fail to emphasize properly the essential points.

They may be briefly summarized as proper selection and preparation of soil, proper selection and treatment of seed, and proper culture and protection.

Of course each of these points may be expanded almost beyond limit, but let us look for the really important.

Let the soil be rich, but loose, and deeply pulverized. While you cannot have sand as a soil content at will, you can add humus, rotten straw and manure, which will make the soil porous, and largely atone for the lack of sand.

Seed selection should be made when the digging is in progress, by taking the hills which show the best potatoes, in largest numbers. And always take the tubers which are the most perfect type of the variety in hand. The tendency to become long and pointed may be taken as an indication of "running out." Treat seed with the formalin solution before planting, and you will overcome scab. This little point of seed selection, if universally practiced, would add one-quarter to the annual crop. Many fail of a good seeding by light seeding, when heavy seeding must be the rule on all rich soils.

The aim of culture must be to maintain a loose condition of soil and to exterminate the weeds. But judgment must be used that soil is not stirred when too wet.

Shallow stirring is better than deep, and this should be especially constant in dry weather. If the seed has been deeply planted at first, the later hilling may be omitted. But when shallow planting has been permitted, the vines should be hilled at the last hoeing, otherwise 10 per cent or more of the tubers are likely to sunburn, and this is a serious loss.

Protection means spraying for bugs and blight, Paris green for the first and Bordeaux for the second.

It is admitted that the character of the season has much to do with results. After the most careful preparation you may have a partial failure from extreme drouth or other calamity. But your chances are better every time, if you provide all the conditions in your reach necessary to a boom crop.

The vexed question of cutting the seed must always be met. Good crops are grown from either whole tubers or fine cut. This seems to prove that it is not an essential point.

Probably the majority of extensive growers will advocate cutting to about three eyes per piece. I. H. H.

The Black Walnut.

To the Editor of The Homestead:

With the growing interest in forestry, this tree will perhaps take its rightful place in the estimation of all tree planters of the great valley. Years ago some far-sighted men planted largely, so that object lessons are at hand for any who have reached the stage of awakened interest.

Both for fruit and timber, the black walnut is one of the very choicest of nature's gifts. The profits which may be reasonably expected, at the end of forty years, from trees planted by the acre, in rich, moist soil, are so large, that few will credit the estimate. The trees at that time will be large enough to saw up into furniture veneering, and the value will total some thousands of dollars.

Because such a large percentage of the nuts fail to germinate it is best to plant them in drills thickly, in Oc-

tober. Have the ground all ready in early spring, and as you find the nuts beginning to crack open, showing the sprout, take those proven fertile ones, and plant them in rows as desired. It is best to plant nurse trees among them, to force an upright growth. White ash is one of the best for this purpose. These are to be gradually removed, and at the end of fifteen years, your walnuts should be standing a rod apart each way, and be twenty feet tall with no limbs, except at the top.

If planted without nurse trees, the walnut branches low down, and it is a tiresome job to trim them properly, and then it is not as well done, as nature does it by help of nurse trees.

Walnuts may be transplanted when a year or two old, and live, but the growth is greatly retarded, and hundreds of planters have demonstrated that it is far better to plant where the tree is expected to stand.

Subscriber.

Vitality of Seeds.

The period for which the seeds of different plants maintain their vitality varies a good deal. The seeds of some vegetables are worthless after they are two years old, while the seeds of other plants improve with age until a certain period. For instance: the seeds of artichokes are good until they are three years old; asparagus, four years; beans, two years; kidney beans, one year; beets, ten years; broccoli, four years; cabbage, four years; carrot, one year; cauliflower, four years; celery, ten years; corn, three years; cucumber, ten years; egg plant, three years; endive, four years; kale, four years; leek, two years; lettuce, three years; melon, ten years; pea, two years; okra, two years; onion, two years; pumpkin, ten years;

FERGUSON'S EARLY NEW MARKET SEED OATS

They are extra large, plump, white seeds. They weigh 50 lbs. per bushel and 45 lbs. per bushel. Government test. They are free from foul seed. We grow seed oats exclusively on our own farms in Canada.

They ripen two or three weeks earlier than other oats, and produced 100 bus. per acre on several farms last year. Read what the Grain Inspector and Farmers say:

Your Ferguson's White Early New Market seed oats grades No. 1 white, which is the highest grade. They are beautiful in color and unusually heavy, clean and admirably adapted for seed. Farmers could afford to pay a good price for such a quality of seed oats.

J. N. Barncard, Govt. Grain Inspector, Minneapolis. We sowed 50 acres of your oats, and farmers drove 25 miles to see it. You have the best oats I have ever seen; they are all that you represent them to be.

Northwestern Agriculturist, Minneapolis. Your oats were exactly as you represented them. They had good growth of straw; long, heavy heads, but they did not fall. They threshed 75 bushels per acre and 40 pounds per bushel. This makes 93 1/2 bushels per acre by weight.

Walter Rosene, Kandiyohi, Minn. Send 10 cents in stamps for large sample of Ferguson's Oats, and you will

The Great World's Fair Prize-Winning SEED CORN Garden and Field Seeds

We have the grandest lot of pure-bred seeds ever grown. Also Poland Chinas, Barred Rock cockerels and Scotch Collie dogs. Send now for 1910 catalog; it's full of sensible facts; it's free. J. D. ZILLER, The Farmer Seed Grower, Hiawatha, Kan.

BARTELDES WESTERN SEEDS

for Western Planters meet Western conditions. Write for our elegant 1910 catalog, prices on field seeds and our interesting Free Alfalfa Booklet. Our garden seeds are unequalled.

THE BARTELDES SEED CO. 812 Massachusetts St. Lawrence, Kas.

CLOVER IOWA SEEDS FOR IOWA FARMERS

"PURITY BRAND" CLOVER is free from foul weeds. It is plump 1909 seed, cleaned and tested. You can't buy better. Prices low. Write today.

The Adams Seed Co., Box 1, Decorah, Iowa.

YELLOW ROSE

THE early corn. Official record, matured in 112 days. Yield, 94 bushels. Test, 62 pounds shelled. Deep grain; small cob. We have also Gold Mine, Silver Mine, Learning, Yellow Dent, Wisconsin White and many others. Our corn sound. Tests 95%. Prices right. We have every kind of seeds. Illustrated seed book FREE. Write today.

J. B. Armstrong & Son, Shenandoah, Iowa.

SEED CORN.

FOR corn that will mature, plant my northern Ill. grown Reid's Yellow Dent, and Griffith's Early Yellow Dent. Sold on approval. Satisfaction Guaranteed. Write for circular. W. G. Griffith, R. 2, McNabb, Putnam Co., Ill.

SEED CORN
Reid's Yellow Dent; good for 65 bu. per acre; price reasonable; honest weight and prompt shipments. Try this one season and you'll want more. Address W. E. SHAVER, WELDON, ILLINOIS.

SEED OATS

learn why the farmers are so well pleased with their crops from our seed.

Small sample FREE.

Special \$100 Premiums. We will give \$75 in cash for the best peck of oats grown from our seed in 1910. We will also give \$25 in cash for the best photograph of oats just before cutting or in the shock. Any farmer or farmer's boy who purchases 2 or more bushels of our oats may earn these premiums.

PRICES:
32 POUNDS PER BUSHEL
1 to 5 bushels . . \$2.00 per bu.
More than 5 bushels, \$1.50 per bu.

Special prices on large orders. All prices quoted F. O. B., Minneapolis, Minn. Order at once.

P. L. A. FERGUSON CO., SEEDSMEN
510 Nicollet Ave., MINNEAPOLIS, MINN.

Straighter Rows Than Ever

Revolving steel disk marker for corn-planters. Can be placed on any wood or pipe staff. Big improvement over the old cast drag. The staff goes through the hub casting which carries the flange that the disk revolves on. Every farmer takes pride in seeing the straight rows he can drive with it. Weight 6 pounds—13 inch steel disk. Price \$2.00 at your dealers. If your dealer hasn't it, write us for full particulars and you will be supplied. NATIONAL HARROW COMPANY Box 104 LEROY, ILL.

Burpee, Philadelphia,

Seed Catalog—provided you intend to have a garden this season. A book of 178 pages with colored plates painted from nature. It tells the plain truth about The Best Seeds that Grow. We have the Largest Mail-order Seed Trade in the World and it is sufficient to address simply

Burpee, Philadelphia

PURE-BRED, TESTED SEEDS

EVERY lot of seed that we put out is subjected to a vigorous germination test. Write for our catalog, explaining our Breeding and Testing Systems and WHY OUR SEEDS WILL GROW. Ames experts select and test our seeds. THE SUMMERS SEED HOUSE, Malvern, Iowa.

radish, four years; salsify, two years; spinach, four years; squash, four years; tomato, two years, and turnips, four years.

Better Seed.

To the Editor of The Homestead:

With the coming of another spring and the nearing of the time of planting, there should come to each farmer a determination to plant better seed. For the truth, of that old proverb which reminds us of this, is impressed upon us stronger and stronger each year. While the last planting was perhaps good, we are sure that the coming planting can be better, and we want to make it just as good as we can. It will not be a great gain to us to plant poor seed, for we are aware that poor seed will bring poor returns, and we cannot afford to let the summer pass with a poor crop when we might have had a good crop. Even a bushel or part of a bushel more per acre will more than repay us for the extra care, and we should strive for this extra bushel.

A considerable part of this seed selection should have been done last fall and the seed properly stored till spring, for we can judge best the quality of seed when it is yet on the stalk, but if we have failed to do this, we should do the next best thing, and that is to select good seed with as much care as possible. We should try always to plant seed that has good vitality and never plant any that has not good vitality. In all cases this can best be determined by actual test, and all seeds of which we are not perfectly sure should be tested. If the test proves the seed to be good, we can go about sowing and can expect to get a full stand. Without the test we are never sure of this.

This care in seed selection should not be applied only to the seeds of the field in general, but the selection of garden seeds should receive just as much attention and the seed should be tested as well.

Some seeds retain their vitality longer than others and much depends on the age of the seed. It is said that cucumber seed will be about 90 per cent good if one year old, 75 per cent good if two years old, etc. While most other seeds will perhaps not run that low, the older the seed the poorer the vitality. So it is not well to trust old seed very much. It is preferable to plant new seeds whenever possible.

However, new seed cannot always be depended upon either, and we should not let this alone decide for us, but we should not be satisfied without the actual test. So by selecting seed that we know has come from a parent plant that has produced an unusually large yield and by making sure of the vitality of that seed and by giving the growing crop the proper care, we can expect to get larger yields and be well repaid for the extra work and care.

Gregor H. Glitzke.

On account of the early winter and unusually bad weather which has prevailed for the last eight weeks many of the farmers in Kansas were unable to husk their corn while it was in the field. As the rabbits, which are very numerous, are making daily levies on the ungathered corn, these little animals have already done great damage and by the time the farmers can get into the fields to gather the corn, Bun-ny will have eaten off a big bunch of the profit.

SEEDSMEN AND THEIR CATALOGS

FREE CORN BOOK.

By special arrangement, Ratekin's big 1910 seed catalog, with a sample of "Diamond Joe's Big White" seed corn that made 153 bushels per acre, will be mailed free to every reader of this paper who is interested in the crop they grow. This big book tells how to make the farm and garden pay. It's worth dollars to all who plant or sow. Write for it and mention this paper. The address is Ratekin's Seed House, Shenandoah, Iowa. See advertisement on page 22.

NORTHERN-GROWN SEED CORN.

Mr. L. D. Hemenway, of Steward, Ill., advertises seed corn for sale as will be noted on this page. This gentleman is located in the northern part of Illinois, not far from the Wisconsin state line. He is raising White Pearl seed corn, a medium-size variety and a splendid yielder. It has been carefully bred and selected in that county for thirty years and in all that time has never failed to mature. Mr. Hemenway believes that for nor-

thern Iowa and northern Illinois this corn cannot be equaled. He is offering it at the price of \$2.75 per bushel, shipped in a good grain sack. It is sold under a guarantee to grow and subject to a ten-day approval on the part of the buyer. Particulars may be learned by writing to Mr. L. D. Hemenway, Steward, Ill.

A FREE SEED OFFER.

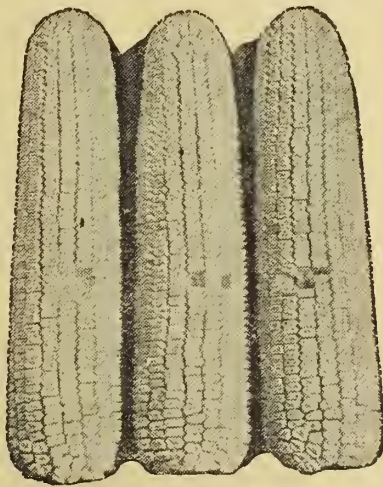
The above expression is the heading of an advertisement of the G. H. Hunkle Company which appears on page 25. This company are seedsmen who raise flower, garden, vegetable and farm seeds, all of which are described in a very handsome and unusually fine catalog. This catalog also gives details as to the offer to send to anyone who buys a dollar's worth of seed, within thirty days after receipt of the catalog, a sufficient additional quantity of vegetable and flower seeds to grow \$50 worth. See the advertisement and write for this catalog, addressing the G. H. Hunkle Company, 302 Chestnut St., Milwaukee, Wis.

GUARANTEED SEED CORN.

Those who are particular as to seed corn for the coming crop, and every farmer ought to be, will be interested in the advertising of Totten's Vermilion Seed House, which will be found on page 25. This corn was grown in 1908 and is all tested and guaranteed. It was grown in Clay county, South Dakota. It will be sold in the ear or shelled and graded ready for the planter at \$2.75 per bushel. Ten days will be given to purchaser, after receipt of the corn, to make a test of it and should it not test out 90 per cent the money will be refunded. For catalog giving all information about this corn, together with lists of the varieties handled, address Totten's Vermilion Seed House, Vermilion, S. D.

SEED CORN MUST BE TESTED.

A crucial period in the history of Iowa is at hand. It involves the selection of seed corn for the year 1910. The failure or the success of the crop depends upon it. If the farmers heed this warning Iowa will continue in her prosperity. But if they don't, and proceed to plant corn from seed that is selected at random, their crops will be a failure. "This warning cannot be impressed upon the farmers too much," said Prof. P. G. Holden, the corn expert of the agricultural college at Ames. "It is of the most vital importance." This condition of affairs has been brought about by the early frost last fall, the wet season and the continued winter weather since December 1st last. All three combined have destroyed the germination quality in 60 per cent of Iowa corn. "I do not urge that the warning be sent out to scare anybody," said Professor Holden. "But I want to be protected, because if the newspapers, farm magazines and everyone who is familiar with the situation do not send it out broadcast over the country there will be serious results. So serious that I almost hate to think of it," he added with emphasis. "But there is a solution to this predicament, and that is the proper selection of seed corn. It must be done. It is absolutely necessary. Other professors and I of the Ames college are working day in and day out holding short courses throughout the state, sending forth the warning, showing and telling the farmers how to avoid a failure of crops this season, for such a thing is sure to follow unless instructions are adhered to." That the 1909 crop of corn has been seriously affected from a germinating stand-



NOT ONE OF THESE THREE EARS OF SHOW CORN WAS FIT TO PLANT.

point is illustrated by Professor Holden by sets of figures showing the result of tests he made on corn exhibited in the National Corn Show in Omaha and the one in Des Moines. This is supposed to have been the very best quality, as it was used for show purposes. But by actual tests Professor Holden found that just about 40 per cent of it can be used for seeding purposes. "If I owned all the corn land in Iowa," said Professor Holden, "I would issue orders to the farmers to test every single ear of seed corn before planting so that the weak ones could be thrown out and only the strong ones used for planting." Mr. John Sunberg, president of the Iowa Corn Growers' Association, in a recent interview, is quoted as saying the following: "It is my opinion that all seed corn should be tested, especially this year. I use the Holden tester, made by the National Seed Tester Company, of Des Moines, Iowa. I prefer this sort of a tester to all others because it insures me a more uniform test. My experience has been that kernels with a high percentage of protein and fat, when put in soil or moist sawdust, do not germinate as quickly as do kernels containing a less percentage of protein and fat, but a higher percentage of starch. Other testers are not as reliable as the Holden because the user is apt to conclude that the high protein and fat kernels, which do not sprout as soon as the starchy ones, are deficient of germinating power. Unless every kernel of each ear I test produces at least four vigorous sprouts I feed the ear

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Kernel
Test

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Our Swastika Seed Corn is pure bred, pedigreed, cross bred, FULLY GUARANTEED, suited to your locality, and tested to a six-kernel germinating test under the supervision of J. R. Steward, member of the American Breeders' Association, and one of the leading authorities on corn in the world.

Our booklet entitled, "The Development of the Corn Plant," which deals with the development of the maize from its discovery to the present day, will be sent free to any reader of this paper.

We refer to any bank or individual in this part of Illinois. Write Dept. D.

Guaranteed Seed Corn Producers
PLANO, ILLINOIS.

SEED CORN

CLOVER SEED

NICE re-cleaned clover and 1909 crop, at \$9 per bu. Re-cleaned timothy, 1909 crop, at \$1.65 per bu., sacks, extra, 25c. Reference—First National Bank. Address MAHER & SON, PRESTON, IOWA.

to my live stock." The National Seed Tester Company, 1115 Walnut St., Des Moines, Iowa, have a large advertisement on page 23 of this week's issue in which the merits of their tester are fully explained. We believe every one of our subscribers who would plant corn in this way should give this matter serious attention. Look up the advertisement today and write to the company for their free catalog and free trial proposition, using the coupon in the advertisement.

MORE AND BETTER CORN.

Each year for many seasons the Deere & Mansur Co., of Moline, Ill., have issued a very attractive booklet on corn. The booklet issued this year is an improvement over that of last, although a year ago the company were positive that their 1909 book could not be improved upon. This year's booklet called "More and Better Corn" deals extensively in the question of selecting corn for seed, going thoroughly into a description of the most suitable ears, the examination of kernels and the best way to plant. This company also have a pocket ledger which is very handy and has been highly appreciated by many readers of The Homestead for years. Illustrations of the book on corn and the pocket ledger are given with this article. Both may be had by writing the Deere & Mansur Company, Moline, Ill. See advertisement on page 55. Ask for Book No. 27.

THOROUGHbred PLANTS.

There is as much difference between the thoroughbred in plants and the ordinary plant as between the thoroughbred and scrub in animals. This statement is made by the D. M. Ferry Seed Company, of Detroit, Mich., the largest flower and vegetable breeders in the country, and is undoubtedly confirmed by practically all of the readers of this paper. The D. M. Ferry Company argue in their 1910 catalog, just issued, for the great value and economy of thoroughbred seed. Good blood, they claim, makes as much difference in seeds as in cows. The thoroughbred is always the best money maker, but thoroughbred plants like thoroughbred animals, are not produced in only one or two generations. The D. M. Ferry Company, one of the oldest seed companies of this country, have maintained for years what is considered by many the best plant breeding equipment in the United States and sell only such seed as have been bred from the choicest stock for many generations. Their annual catalog may be had free of charge by writing them at Detroit, Mich., mentioning this paper. See advertisement on page 22.

POOR SEED CORN THIS YEAR.

The wet and cold weather at the husking season last fall did considerable damage to the germinating power of corn over practically the entire corn belt. It is, therefore, absolutely essential that all corn be tested this year. Every farmer should be certain that the kernels he selects for planting will grow. In addition to a satisfactory germination test the kernels should be sorted and graded and only the large, well-filled, high-feed-value kernels used. Proper grading also will give kernels of a uniform size which insures an even dropping by the planter. This is especially important this year because the close germination test will lead to the selection of many ears with irregular-shaped kernels. The Hero Corn Grader, manufactured by Mr. C. A. Paulson, 2839 Colfax Ave. So., Minneapolis, Minn., has made a name for itself among corn raisers over the entire corn belt during the past two years. One of these graders will actually pay for itself from increased yield on one acre of ground. Our readers will find an advertisement on page 22 of this issue fully describing the Hero Corn Grader.

We are the exclusive agents for H. J. Goddard's "SEVERING KING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern-grown seed corn. (Clovers, timothy, alsike, mixed timothy and alsike, garden seeds, etc., Cat. free. The Adams Seed Co., Box 1, Decatur, Ia.)

THE BACK COVER OF OUR 1910 CATALOG



WE are the Ear Seed Corn people and can furnish Iowa with seed corn that will "grow and satisfy." We offer \$2,000 in cash premiums at State Fairs and National Corn Show. Our nursery stock is strictly Dakota grown. Our new 136-page catalog is absolutely free for the asking. Send for it today.

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where \$1.00 grew before"
How? Good Seed!
The Hawkeye Grader
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WHITE PEARL SEED CORN

MEDIUM sized, splendid yielder, carefully bred and selected for 30 years. Never fails to mature. Will guarantee to grow. Subject to ten days' test for approval. Price, \$2.75 per bushel. Good grain sack included with order for two bushels or over. Do not go South for seed.

Reference—First National Bank of Steward.
L. D. HEMENWAY, Steward, Illinois.

KHERSON SEED OATS
OCTYIELD common oats from 10 to 20 bu. per acre. Does not lodge or rust, just what you have been looking for. Sample sent to Farm Crop Dept., at Ames, was pronounced good. Samples and prices on request. A's, free pamphlet on oats growing. **Burg Bros., Route 1, South Annapolis, Iowa.**

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THIS
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They save loss of time—make it possible for your horses to work harder with greater comfort—save the trouble and expense of curing shoulder galls, save money because they last longer. "UNO" collars have a heavy facing of Young's Uno self-conforming mixture, backed up with selected long rye straw—a yielding, pliable facing that adjusts itself to the shoulder shape. They have double strength throats making them extra strong where common collars are always weak—have smooth, heavy sole leather top pads. Made only from bark tanned leather in sizes and shapes for every shoulder. \$3.75 to \$5.00 each.

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Send us the name of a harness dealer who does not handle "UNO" Horse Collars, and we will send you a beautiful pair of Nickel Embossed Bridle Rosettes, FREE.

Our booklet, "Horse Collar Sense," gives you some valuable pointers on how to judge and buy horse collars. Free on request.

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"SAVE THE HORSE" SPAVIN CURE.

REG. TRADE MARK



Don't forget, Mr. Man, no matter what your case is, an investment in "Save-The-Horse" means that you simply cannot lose if you go to it right. OUR CONTRACT PROTECTS YOU.

SIMON & SON, Tailors, Richmond, Va., Nov. 20, 1909. TROY CHEMICAL CO., Binghamton, N. Y.: I used "Save-The-Horse" as you directed on the place where the horse was kicked and he recovered entirely from lameness. A week afterward he went lame in hind leg, and he was very lame. I had a doctor examine him and he said he had a blind jack. As I had some "Save-The-Horse" left he advised me to use it, which I did, and he is perfectly sound. This jack came on the leg that was sound, for, if you remember, he had a bone spavin on the other leg some time ago. I have had much luck with this horse, and your remedy has always given him a cure. I thank you for your kindness, always willing to give advice, and I shall always recommend "Save-The-Horse" highly. NATHAN SIMON

Norway, Me., Oct. 19, 1909. TROY CHEMICAL CO., Binghamton, N. Y.: I have a horse, etc. I have faith that "Save-The-Horse" will do as you say, because I have seen four cures, one bog spavin, and one enlarged tendon cured by it for other people. Please let me hear from you regarding my horse. Very resp., A. H. STAPLES, D. D. S.

\$5.00 a bottle, with signed guarantee or contract. Send for copy, booklet and letters from business men and trainers on every kind of case. Permanently cures Spavin, Thoroughpins, Ringbones (except low), Curbs, Splints, Capped Hocks, Windpuffs, Shoe Bolls, Injured Tendons & all Lameness. No scar or loss of hair. Horse works as usual. Dealers or Exp. paid. TROY CHEMICAL CO., 3 Commercial Ave., Binghamton, N. Y.

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Easy method, little expense, no pain or scars. Written guarantee with each bottle. **REMOV-ALL**—Beats "Em All" for Sprains, Curbs, Bog Spavin, all lameness. Sold on money-back guarantee. Free—Treatise on curing animal diseases. Write for copy today.

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VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

WARTS.

What is best cure for dry warts? My horse has one on back, one by ear, one on side and one on leg.

It would be best to have the warts cut out. If this cannot be done then saturate each of them once daily with glacial acetic acid applied drop by drop. Masses of warts will disappear after a time if rubbed once daily with best cold pressed castor oil.

IMPERFECT SCAR.

I have a mare that cut her hind leg on a barb wire, the worst cut I ever saw. That was about eighteen months ago and the place has filled out, but has a rough, hard scale on it. I can curry it off and it looks better for a few days and then it comes on again. It doesn't bleed. When it is taken off it is very rough. The mare is fat and in foal.

Cleanse the part, and each other day rub in a little bit of 5 per cent ointment of mercury.

LAMENESS.

I have a young horse three years old that was kicked on the right hind leg. It seems to be in the hock. It is swelled quite badly and he favors it a good deal when he walks. I turn him out in the daytime for exercise. I have not done much of anything to it yet, as it just happened last night. Any information you can give me will be greatly appreciated.

After an accident such as you describe the horse should be rested and the injured part kept continuously covered with a hot, wet pack of flannel. After inflammation subsides, the hair should be clipped off and the hock blistered with cerate of cantharides, if the lameness persists.

BLEEDING.

I have a gray mare twelve years old in foal by jack, that is waiting blood. This began two weeks ago and there is more or less discharge almost every day, sometimes considerable. She did the same last year; the discharge started three months before she foaled. She went five weeks over time and I supposed the colt would be dead, but it was all right. Can you tell me what to do for her?

Twice a day give her a teaspoonful of tincture of iron in half a pailful of cold water and increase the amount if found necessary. Abortion is likely to take place in such a case, but possibly this may be prevented. As soon as the bleeding ceases give her half an ounce of fluid extract of black haw in water each other night for two weeks. Repeat the treatment as found necessary.

DIFFICULT CALVING.

I have a registered Holstein heifer, two years old. New Year's eve she calved, but the size of the calf would not permit of two strong men pulling it away from her, so I sent for a veterinarian. When he arrived I told him if he couldn't save the calf, by all means to save the heifer. He examined the calf and found that it was dead, so he and I pulled on it, but couldn't budge it. He then fastened tackle and pulley to it and pulled it that way. I told him I thought that rather hard treatment, but as he was a man of ten years' experience I thought he certainly must know how hard he could pull the heifer without injuring her. After he got through he produced a pair of dissecting scissors and told how slick he could dissect a calf or colt with it. Now, wasn't it his place to use those scissors instead of doing as he did? The heifer hasn't been able to get up since and seems to be paralyzed in her hind part from the hips down to her feet and her vulva was swollen larger than a man's head. I filled a sack with bran and bathed it for her at least one hour every day with as hot water as she could stand. Her flesh in vagina simply decayed and is now falling out in large chunks. The swelling has almost gone down, but she is terribly swollen on the outside of each hind leg, up near the hips. She had and has yet a fever. In the beginning it was 108 and is now around 104-105. We have for the past week been getting her up with a sling and tackle. She can stand, but if she strains to urinate she falls over. Her ankles cock over and she is unable to get them straight without assistance. She is getting so she can urinate better now. Have given her fever medicine left by the doctor. Do you think there is any show to save the heifer? If so, kindly advise me. Also, had the veterinarian any right to do as he did? Her legs used to spread far apart, but they don't any more.

The veterinarian would be the best judge what to do after making a careful examination and the likelihood is that the treatment he gave was right and proper as judged by his past experience. The symptoms are such as one might expect to see after such a

difficult calving. The chances of recovery usually are slight; but if the veterinarian is allowed to carry on the treatment now being given and which seems to be satisfactory she may recover.

FUNGUS HEMATODES.

I have a large bay mare about sixteen years old that has a sore eye and has been sore for about two years. The sores are inside of her right eyelids and look like warts and have a kind of pus flowing in cold weather. Have had her examined by several who claim to be graduate veterinarians and not one seems to know what to do. This mare is bald face and has glass eyes and otherwise is all right. I have used hydrogen peroxide as a wash, which seemed to help, but not much. Would be glad for any information if it can be given.

We suspect that the growths may be cancerous and in that case they should be cut out but may return. The operator should cauterize the wounds after the necessary cutting has been done. Afterward cover the parts with a soft cloth to be kept constantly wet with a saturated solution of boric acid.

TUMORS.

Could you tell me what is the matter with my cow? She has a hard lump on both sides of her head, just close under her ears, about the size of a goose egg. I first noticed it on one side last summer, but now she has it on both sides and the lumps are slowly getting bigger. Is there any cure for it?

Have her tested with tuberculin as tuberculosis of the glands of the throat always is to be suspected in such cases and there is no cure for that disease. If she proves to be free from tuberculosis it may be actinomycosis or some other affection of the glands and we would clip off the hair and rub in iodine ointment three times a week. If they soften lancing will have to be done for evacuation of pus.

SWELLING.

I have a mare about twelve years old, color gray or nearly white, that has a large swelling above the shoulder blades. She has had it almost two years now. Persons who claim they know call it fistula. It has never broken open. Would you advise having it opened or wait until it opens itself? Would you advise using fistula remedy? What do you think it really is?

In all probability pus is present deep down in the swelling and a fistula may form if it is not liberated. Still we would not advise cutting unless the part softens to indicate presence of pus. Better wait if she can work and the part is not sore. If there is any soreness it would be well to blister the swelling and then open if it softens. Afterward use advertised fistula remedies or those which have been suggested in this department of the paper.

CONTAGIOUS MAMMITS.

I have a heifer three years old last fall. She is half Jersey and half Short-horn. She calved the first time last September. She gave from three to four gallons of milk a day on grass, was a little hard to milk and her teats were short. About six weeks ago a lump formed in her teat which partly stopped the flow of milk. The milk was cloudy and filthy from that teat. I saw a veterinarian about her and he said it was probably caused from a bruise or a disease germ or probably too great a flow of milk. He gave me a milking tube which I used and the teat got some better, but now all four teats are the same way and I cannot milk her at all only with the tube. I am drying her up now. I milk her once a day. She runs out of doors in the daytime and at night she is in the stable with four others. They stand on cement floor in stanchions. I bed them heavy. I feed her six quarts of oats twice a day and all of the timothy and clover hay she can eat. She is not abused in any way whatever. The barn is perfectly clean, but is not aired, lighted and ventilated as it should be. Our cows had what I think was the cowpox last fall; their udders broke out all over with mattery sores like boils. Once in a while yet a sore will break out on their udders. What can I do for it? If you can give me any information regarding these it will be greatly appreciated.

The disease is due to germs and the milking tube, unless perfectly sterilized before use each time, with certainty carries the disease from quarter to quarter of the udder. The other cows also seem to have been affected with this contagious form of mammitis rather than with cowpox. It will be necessary to thoroughly cleanse, disinfect and whitewash the stable and the sooner you make it sanitary by proper ventilation and



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Marlin repeating shotguns are guns of perfect proportions, made in 12 and 16 gauges, with simpler mechanism than any other repeater.

They have the Marlin solid top always between your head and the cartridge, the side ejector, and the closed-in breechbolt that keeps out rain, snow and sleet, dirt, leaves, twigs, and all other foreign matter. These features add greatly to the efficiency of a gun and to the comfort and convenience of the shooter.

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will reduce inflamed, swollen joints, Bruises, Sore Bunches. Cure Boils, Fistula or any unhealthy sore quickly, pleasantly; does not blister under bandage or remove the hair, and you can work the horse. \$2 per bottle at dealers or delivered. Horse Book 7 D free. **ABSORBINE, JR.** for manking, \$1.00 per bottle. Reduces Varicose Veins, Varicocoele, Hydrocoele, Gout, Wens, Strains, Bruises, stops Pain and Inflammation.

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DEATH TO HEAVES

COUGHS, DISTEMPER, INDIGESTION
Guaranteed or Money Refunded
Newton's Sore Throat, "Horse Troubles" Explains fully. \$1.00 per can at dealers, or express paid. **THE NEWTON REMEDY CO.,** Toledo, Ohio.

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Is the title of our Book G-A that is sent free, telling how to relieve Caked Bag, Sore or Injured Teats, Spider in Teat, Cow Pox, Udder Troubles, and prevent Heifers from becoming hard milkers with

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A. S. ALEXANDER, V. S.

MADISON, WIS.,
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail, \$1.00.

lighting the less will be the likelihood of such a disease among the cows. Better fatten the heifer for slaughter, as her udder no doubt is permanently ruined and it does not pay to fuss with such cows.

FAILURE TO BREED.

What can I do to cause my mare to come in heat? She is seven years old, in good condition and high lived. Since purchasing her a year ago I have tried continually without results to catch her. Have fed her several drugs, including "blighted rye," recommended by our local veterinarian.

Give her half a dram of fluid extract of nux vomica twice daily in a little water and if she does not come in heat have her bred and she may soon afterward have a natural period of heat.

TUMORS.

I have a four-year-old gray horse that has lumps on his head about the size of a goose egg. They have been there for six or seven months. One side had a blister put on once last summer, but it did no good and nothing has been done since. They seem to get no larger and are no softer than ordinary flesh. Would you advise doing anything or let them alone? If so, what and how?

Severe treatment should not be given. If they soften and so indicate presence of pus a veterinarian should be employed to operate. Meanwhile, clip off the hair and two or three times a week paint the parts with tincture of iodine, or each other day rub in some iodine ointment.

INFECTED CALVES.

Please tell me what can be done to my calves. When about a week old they began to swell on one side of the head. They live about a week after this comes on and the last day they can be heard breathing for a few rods off. These calves get sweet milk and I have given no treatment.

Clean up, disinfect, whitewash, perfectly ventilate and fully sunlight the place where the calves have been kept; or better still, supply a new, clean, sunny, airy place for their reception. When calves come, wet navel stump with a 1-500 solution of corrosive sublimate and repeat application twice a day until navel heals. We suspect that germ infection is the cause of the swellings described.

RUPTURE.

Will you kindly give me your opinion as to my four-year-old grade draft filly? She got in foal by chance. She has a rupture on side of belly about where the tug of harness comes, and about one foot in front of her stifle joint. The rupture is as large as a man's fist, inside the hole. Can she feel in this shape? If not, what should I do?

The mare should have abundant exercise daily and food such as will keep the bowels freely open as foaling time approaches. To help prevent enlargement of the rupture at foaling time the veterinarian should just before that time put on a wide roller bandage and a truss to keep rupture in place. She may get through all right, but in that case should not again be bred.

GARGET.

I bought a Jersey cow seven years old from a man whose word, I believe, is good, and he said she was an extra good milk cow. She had a calf four weeks ago and starved it almost to death. We took it away from her and she doesn't give more than one quart of milk a day. Her udder is swollen some and seems rather hard, but don't think there is any fever in it. The cow has a good appetite and looks well. I feed a little corn in the morning and oats and bran in the evening and timothy hay. I would like to know the cause and what I can do for her, and do you think she will ever do any good as a butter cow?

Garget apparently is the cause, but we cannot say if it were contracted since you owned the cow or was previously present. It is extremely unlikely that she ever will be much account as a dairy cow. Foment the udder twice daily with hot water, then rub with brandy and afterward smear on a little melted lard. Feed roots or silage if procurable and add flaxseed meal to the grain ration.

CAPPED KNEE.

About two weeks ago I had a big mare bruise her right knee in front. There is quite an enlargement which is soft to the touch. She is not lame on it and does not seem to have any pain there. I have done nothing to it except to apply some hot vinegar. Will it come all right in time, and please tell me what I had better do to it to get it well again. She is a very valuable mare and only three years old and I would not like to have her blemished.

Tie her so she cannot lie down; then foment the knee with hot water three times a day and then rub thoroughly downward for ten minutes with palms of hand. At night paint knee with tincture of iodine and when dry put on a bandage. Keep her out of draft. The massaging does as much good as the medicines and should therefore be very thorough each time. If this does not suffice it may be necessary to have the swelling opened

by a graduate veterinarian. That should be avoided if at all possible.

NAVEL RUPTURE.

I have a black colt which will be two years old in the spring. She has a lump under her stomach by the navel, about the size of a dove egg. It is soft so that I can put my finger up into it. She has had it since she was born and I think it is rupture. It never swells nor grows larger. Will you please give me a treatment if there is any? Do you think it will ever hurt her for work or for foaling? Do you think it will ever break open or will it go away?

The small rupture described will be likely to disappear in time if you simply paint the part with tincture of iodine each other day, the object being to keep the skin irritated. Usually such small ruptures disappear without treatment by the time the animal is two years of age. If it should increase in size it may be necessary to have it treated by a veterinarian who probably will apply wooden clamps.

PISTULA OF SHOULDER.

I have a mule that I traded for about two months ago and the man I got her from said she had been snagged in the left shoulder about a year and a half ago. He had a man probe it, but could not find anything. The place is about the size of a .32 ball and it runs pus all the time. We have no experienced veterinarian in our country and will you please tell me what to do for the mule? Working doesn't seem to hurt her very much.

A sliver or other foreign body doubtless keeps the fistula open and running. It will have to be split open to the bottom. Then the sliver will have to be removed, the lining membrane of the fistulous tract dissected out and the cavity packed with oakum saturated in a mixture of equal parts of turpentine and raw linseed oil. The dressing should be renewed once a day until the oakum can no longer be introduced.

INJURED MUSCLE.

Last October an old horse of mine was cut with a knife on the upper part of the front leg. The cut was nearly into the bone, and crosswise in the muscle. It healed in a short time and did not seem to hurt him much for some time. Later pus formed and it broke open and then healed again. It is not swollen, but feels hard. It is not sore to the touch and he does not mind it when standing still, but when he tries to lift his foot forward it causes him great pain and he hobbles on three legs. What can be done to it? Do you think he will be able to work in the spring?

The extensor muscle has been injured and possibly a tumor has formed. Clip off the hair and blister the part with cerate of cantharides. Repeat the blister in a few weeks if the first blister did some good, but did not wholly remove the stiffness and soreness. We are unable to say how long the horse will remain unfit for work.

EYE DISEASE.

Will you please tell me what I can do for my sheep? They run at the nose and their eyes turn red and generally their eyes swell shut so they can't see for several days. Sometimes one eye swells shut and it is a week before the other one is affected. They have been afflicted for about three months. I have lost none yet, but they get quite poor.

The eyes of sheep sometimes become inflamed and even blind from exposure to driving winds coming across snow. Where that happens recovery is speedy if the sheep are sheltered and the eyes are bathed daily with a 10 per cent solution of boric acid. In more cases the disease is contagious ophthalmia and affected sheep should be separated from the flock and treated by washing their eyes once daily with a saturated solution of boric acid and twice a week puffing between eyelids a little of a mixture of equal parts of finely powdered calomel and boric acid. Clean up the pens and sheep stables.

INDIGESTION.

I have a three-year-old mare which isn't just right when I drive her. She goes all right for two or three miles and then begins to sweat and gets weak, while the other horse that I drive with her is all right. I do not drive her hard, either. She is thin in flesh and has long hair, although I take good care of her. I fed her one gallon of shelled corn for two feeds, morning and night, and timothy and clover hay mixed. Now I have changed it to two gallons of oats for two feeds, and prairie hay. I give her bran mash two or three times a week and she is the same all the time. I let her out about every other day. She is in the corn stalks in the day time, but I shut her up at night. I think she has the scours, for her bowels discharge a thin fluid. What is the best remedy, or what do you think about it? She weighs about 1,050, and is black in color.

Stop feeding bran mashes and cut the grain ration in half. Feed whole oats adding one-fifth part of dry bran. Substitute timothy hay or prairie hay for the mixed hay. Always give the drinking water before feeding. Make her take exercise every day. If oats pass whole in the manure have her

teeth attended to by the veterinary dentist, as milk tooth crowns may have to be removed or swollen gums lanced. Clip the hair from legs from knees and hocks to body and from belly to a line with the place where the breeching strap and strap of breast collar would come. Allow free access to rocksalt. Gradually increase the amount of food as she improves. Medicine may not prove necessary if you follow these instructions.

CAPPED KNEE.

Please give me the best treatment for this case. I have a gray mare seven years old that has a bunch over her knee cap. It first started about one year ago. Her leg is turned out which makes it not quite straight. She weighs 1,500 pounds. I have blistered the bunch several times. It makes her a little lame when she first starts to travel. The bunch is not hard, but skin seems thick. Can this be cured?

As the knee is distorted we do not believe the condition can be cured so far as that is concerned, but it may be possible to remove the callous and possibly the lameness. It would be best to have a veterinarian puncture the part with a thermo-cautery and then apply a blister. If you cannot have this done then we would blister the knee repeatedly with a mixture of one dram of biniodid of mercury and two ounces of cerate of cantharides.

FRACTURE.

I have a small, sorrel pony mare, coming eight years old. Three weeks ago she got her left hind leg broken just below the knee. I suppose another horse kicked her. We put her in a sling and put the leg in splints and plaster of Paris, but somehow we can't keep her in the sling. She eats well and can help herself all right. She does not weigh more than 600 pounds when fat. Do you think she will ever get so that she can walk? We still keep the leg in splints and plaster of Paris.

Provided the ends of the bones have kept close together during the three weeks since the accident happened, despite the fact that she possibly has lain down, union should have advanced at the present time and chance of recovery will be good. The splints and cast should be removed, while she is held securely in slings, and if the bones are found to have been united by a callous then put on the splints and cast anew and provide slings that will prevent her from lying down. The best course would be to have the examination made by a veterinarian.

WOUND—LAMENESS.

(1) We would like an answer in regard to some questions on a horse with a wire-cut leg. The horse is coming four years old next May, bay color and about 1,400 pounds. He was cut August 1, 1909, and the wound has never healed; it has always been mattering more or less. The cut is inside of the hock and toward the side of the cut is a hole about an inch and a half deep. At the time he was cut we could see the bone and the cord. The horse does not limp or cripple. We had a veterinarian treat it and we have worked it with lysol and water, have used sheep dip, healing powder, peroxide, all in succession, but with no good results. The horse is in good health. The wound is continually raw and open and of about three inches in diameter. The matter seems to come from the little hole. The day he was cut we could feel scratches on the bone, but the cord was not hurt. (2) We have another bay mare coming three next spring which became lame in the shoulder on the right side. The right side seems to be smaller than the left and the mare can scarcely walk on it. She seems to have pain in it, too. She had it about seven months. Our veterinarian treated this one also, but it did no good. Please give me some advice upon these matters.

(1) Cleanse the wound with a 2 per cent solution of coal-tar disinfectant or carbolic acid and then twice daily inject into the discharging place a little of a mixture of one dram of iodoform in an ounce of sulphuric ether. Afterward apply equal parts of boric acid, calomel and tannic acid, cotton batting and bandage. As soon as the discharge lessens use the injection but once a day. Renew the dressing daily. (2) Clip off the hair and blister the shoulder repeatedly with cerate of cantharides.

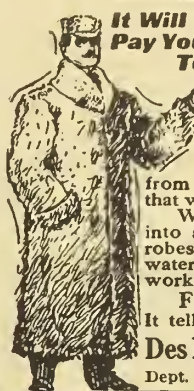
Ship Hides

We absolutely guarantee our tanning process. It leaves hides soft and pliable; will last longer and wear better than work done elsewhere. In addition we save you money. WE MAKE

Fur Coats, Robes, Etc.

We'll not only tan the hide but will make it up into serviceable warm fur coat or robe; from the scraps that other people waste we will make you a pair of fur mittens. All work guaranteed. Write for free booklet about tanning and price list of what we pay for raw furs. Dept. A

M. L. GLICKMAN & CO.,
DES MOINES, IOWA.
205 Court Ave.



Ship Us Your HIDES

YOU can have a warm, serviceable fur coat made from your cow or horse hide that will wear you for years. We tan and make them up into soft and pliable coats, robes and rugs, moth and waterproof and guarantee the work. Write us today for our FREE BOOKLET. It tells you all about hides.

Des Moines Tanning Co.,
Dept. A Des Moines, Iowa.

Ship Us Your Hides

WE are tanners of cattle and horse hides. Make Coats double-breasted with braid down the front, best quality of quilted lining, bar buttons and cord, for \$8; tanning included for \$12.50. Line robes with A No. 1 wool plush for \$4; tanning and lining complete for \$8.50; and guarantee all our work. Write for free price list, booklet and shipping tags.

GLOBE TANNING & MFG. CO.
222 S. E. 1st St., DES MOINES, IOWA.

SHIP YOUR HIDES & FURS

direct to Biggs & Koch and you will get the highest prices and save all commissions. A square deal and quick returns. Full weights and honest grading. One hide, one skin or a car load. No matter whether you are a trader or trapper, farmer or dealer we can do you good and make you money. It will pay you to write us for price list and FREE shipping tags. Fur shipments held separate on request, and your furs back if our returns are not O. K. "Trappers Guide" free to shippers. Write today for catalogue of Trappers Supplies.

BIGGS & KOCH,
954 Liberty St., Kansas City, Mo.
Largest hide and fur house in Southwest. Estab. 1882

FURS WANTED

We want every trapper who reads this to write us at once for our monthly price list. Do it now. We satisfy all who ship to us.

Fember's Hide and Fur House
Drawer 5, Osunwa, Iowa.

BAYER TANNING CO.

Tanners of cattle and horse hides for coats, robes, rugs, harness, lace leather, etc. 40 years' experience; commenced tanning buffalo robes in 1872. You'll get a square deal with no regrets. Write for booklet of information on handling and shipping hides; also price list. Address 105 S.W. 9th St., Des Moines, Iowa.

TAN HIDES

SEND us your hides and we will tan them and make your robes, coats, mittens or rugs. All work guaranteed. Water soft and malt proof. Cash paid for hides and furs.

Sioux Falls Robe & Tanning Co., Sioux Falls, So. Dakota.

WOOL FURS

If you want the HIGHEST PRICES for Furs and Wool, write to me today for Price Lists and Special Information.

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SHIP US YOUR Hides
Fur, Tallow, Pelts, Wool, Ginseng and Seneca. Buy Guns, Traps, Decoy, etc. of us. Write for price list catalogue and shipping Tags. Mention this Paper.



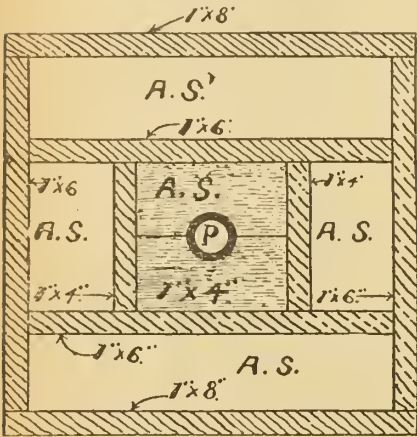
WE GIVE more information on Hides, Furs, etc. than any other house in the world and pay Highest Cash Prices day received.
NORTHWESTERN FUR & HIDE CO.
200-204 1ST ST. N.W. MINNEAPOLIS, MINN.

HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

How to Keep the Water Pipes From Freezing.

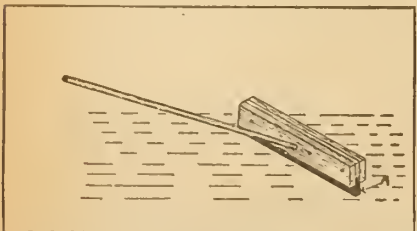
I noted in a recent issue of your paper that Farm Furrows has been having trouble with frozen water pipes and that he would be pleased to have a remedy. If Farm Furrows will protect the water pipes as shown in the illustration herewith, he will have no further trouble with bursted water pipes, says J. E. B., of Polk



county, Iowa. As shown, an eight-inch double box is built around the pipes by using 1x4, 1x6 and 1x8-inch boards, which will form a double air space on all sides of the pipes. The air spaces are indicated at A. S. and the size of the boards are given in figures. The 1x4-inch blocks around the pipe in the center have a hole bored the proper size and the block is then split in the center and nailed every eight to twelve feet to hold pipe in place. All joints have a piece of building paper placed between the boards before they are nailed in place, and where splices come in the box a block is nailed on the inside with paper under same. This protection may be placed around pipes in any position, and if properly built and kept painted it will last for many years and the pipes will not freeze in the coldest weather. The boards should be sound, of course, so as to keep out the frost, and if loose knots occur they should be treated the same as the splices. This sized box is for pipes up to two inches in size; if the box is for larger pipes it should be built larger.

A Handy Floor Cleaner.

I wonder if any of the readers of your paper have had the same trouble that the writer has had in removing the water from cement floors after washing same, says Mr. J. E. Bridgeman, of Missouri. It sometimes seems impossible to get the water swept up and, go over the floor as many times as you may, there is still some water on the floor. However, we wish to say this trouble does not occur on all floors, as some floors are as smooth as glass and it seems very easy to sweep the floor dry. The writer, acting on the suggestion of a stationary engineer, made the device shown in the accompanying illustration. As will be seen, a piece of heavy rubber belting is made fast between two

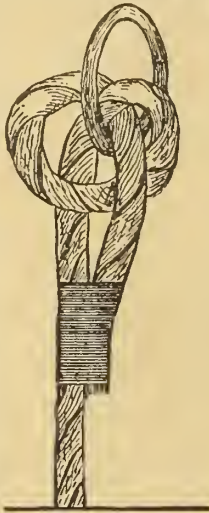


short pieces of three-quarter-inch boards, and as the rubber does not extend entirely through, a piece of board the thickness of the belt is placed between to help fill out. The belt extends below the wood about one inch and has just the right give and spring to fill all the small spaces

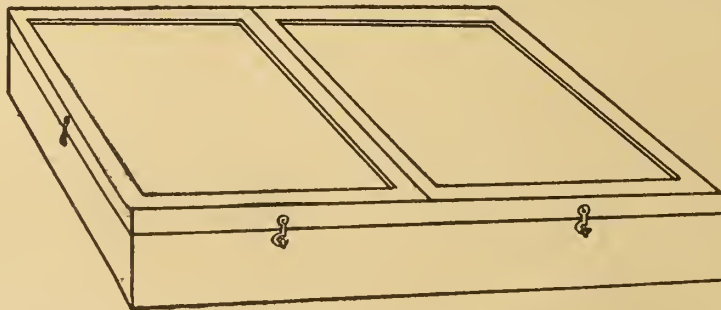
and force out the water. The cleaner is eighteen inches long and the handle is an old broom handle. This device was fastened together with nails, but in the future, should we make more of them, small bolts would be used. It was found a most excellent device for the housewife in drying the kitchen and porch floors.

A Rope Kink.

Many well-informed farmers do not know how to fasten an iron ring to the end of a rope that is to be used for a halter or other purpose. The writer was one of them until last month, when we were shown the kink herewith illustrated. The knot around the ring has been drawn open and loose to better illustrate the idea. Our informant claims for this knot that it will not come loose and that the ring cannot escape unless both strands of the rope wear through. We can easily see that the knot would be very apt to hold itself in place, provided the twine or wire wrapping below did not come loose, but it appears to us that if one strand of the rope broke, the ring would come loose unless the half hitch that would be formed held same in place. However, the idea seems good, so we pass it along in hopes it may be of some use to other readers of this paper.



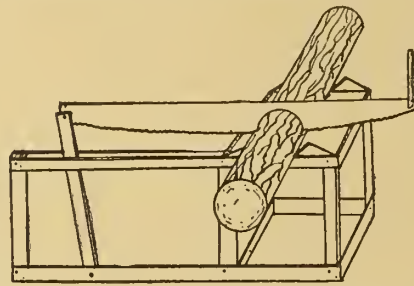
The old saying is, "The early bird gets the worm." The glass-covered hotbed means vegetables for the table two weeks before they can be produced with the open bed, writes a Kansas subscriber, C. O. Thomas. Se-



cure the sash you wish to use and make the frame for the bed from two-inch boards. Make the frame so that the outside edges will correspond with the outside edges of the sash; this will allow the sash to be laid flat down on the frame and, if needed, they can be held in place with screws or wire hooks and eyes placed at, at least, two of the sash ends. If one wishes a larger bed he can use more sash and frame accordingly. In digging the pit we prefer to make it large enough to admit the frame to the depth of four inches at the back and eight inches at the front facing the sun; this gives good drainage for the glass during a rain, and allows the access

of more sunlight to the bed. After fitting the frame thus, then dig the remainder of the pit, inside of the frame, to the depth of three feet from the top of the front frame. Now tramp in horse manure to the depth of twenty inches. If possible, place an inch of pure sand on top of this, and then about eight inches of the best soil procurable. Now put the sash on and let the bed heat up a few days before planting the seeds. If enough sand is sprinkled over the bed to hide the soil it will prevent crusting. The ground taken from the pit should be banked up well around the bed for drainage, and then, if a couple of inches of manure are strewn over this, for five or six feet around the bed, it will be a great help in holding the heat in case of a cold snap. On hot days examine the ground; if you think it is too warm, raise the sash a little. Have something available for a covering on cool nights. See that the soil is in good condition at all times; never let it get dry, or make it soggy wet. After the plants are up raise the sash every day, when it isn't too cold; this gives them air and is essential for their proper growth.

When one man is compelled to handle a cross-cut saw alone it is a disagreeable task, which is avoided by the use of this handy contrivance. As illustrated the one end of the saw is bolted to an upright stick which slides back and forth in a slot made by nailing two strips together with a board between same, the thickness of the up-

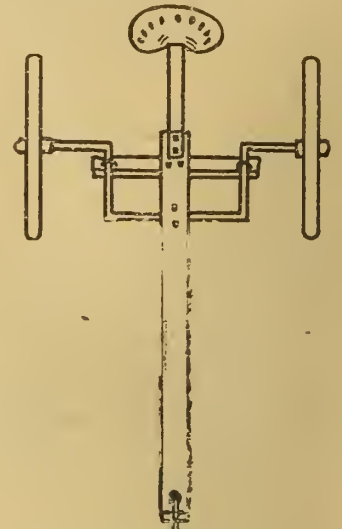


right, this is bolted to the bottom of the frame. A frame is also made for the log or stick to rest upon with blocks at each side so it cannot roll and is held steady. By greasing the slot through which the upright works the machine will work easily and support the saw so one person can operate it with ease.

When the fields are deeply covered with snow, as during the present winter, it is practically impossible to get

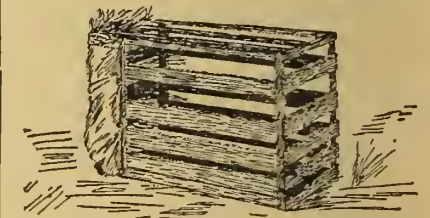
sleigh and is easily hauled about in the snow. Its construction is indicated in the drawing.

Converting the old walking cultivator into a light but very efficient harrow cart is very quickly done, according to a Missouri subscriber. Secure the wheels, frame, tongue, and a short piece of 2x4 long enough to



reach across the frame between the axles; this makes a big frame, and forms a firm support for the seat and tongue. One from some other piece of machinery will answer very well. The tongue may be attached to the harrow ring. Make one for boys this winter and see if they'll think harrowing does a great deal more good than they use to, when they had to walk.

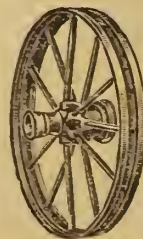
There are two very good reasons for tacking a gunny sack on the end of a crate in which a sheep or calf is to be shipped. In the first place, an abundant supply of real nice hay will be relished before the end of the tedious journey and then, in extreme cold weather, the sack and hay will



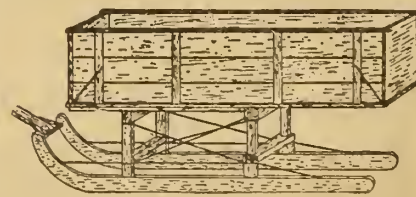
help to protect the animal when exposed to the elements at transfer points. The added equipment is inexpensive and does not add appreciably to the weight of the crate. The plan of securing the sack to the crate is clearly indicated in the drawing.

A subscriber at Salem, Mo., would like to get a little instruction on how to build a fence near a creek where it overflows. He has had trouble several times owing to the fact that the creek during overflow times would destroy the fence. We shall be pleased to hear from those who have had experience along this line.

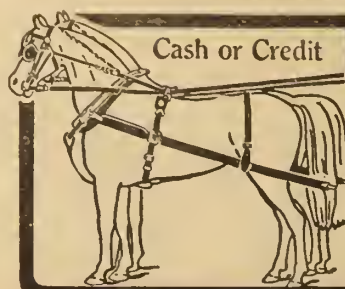
Steel Wheels



WITH GROOVED TIRES 4 in. wide. The Groove protects the heads of spokes from wear, which makes wheel good and strong till tire is worn out. We make plain tire wheels in other widths. We make wheels to fit any thimble skein or straight steel axle. Get our free catalog of Steel Wheels and Low Down Handy Wagons. HAVANA METAL WHEEL CO., Box 47 Havana, Ill.



to some other method of hauling out manure. The sled dump herewith illustrated makes a most satisfactory substitute for a manure wagon or



Cash or Credit

SAVE 25 to 50% ON HARNESS \$23.00

\$23.00 buys our Leader No. 53 Farmers 1½ inch Team Harness delivered at your railroad station. If it is not the best value you ever had, send it back and we will refund your money. The above harness is a genuine bargain—a splendidly made 1½ inch Team Harness. All of the best grade Oak Tanned Leather. We are the largest manufacturers of harness selling direct to the user. We issue a 100 page catalog, the finest ever gotten out in the harness line. It is full of money saving offers. We want to convince you there is no better harness made selling at any price. Write for free catalog today and compare our prices with your home dealer.

R. M. KNOX, Pres., Western Harness & Supply Co. 613 Main Street, Waterloo, Iowa.

FREIGHT PREPAID

ADVERTISING NOTES.

Advertisement of the Evergreen Nursery may be found on page 26 of this paper. The Evergreen Nursery, as conducted by Mr. D. Hill, at Dundee, Ill., is probably the largest of its kind in the United States. For nearly one-third of a century Mr. Hill has made a specialty of evergreens and at the present time has over 50,000,000 trees from which to make shipments. Mr. Hill has been a patron of this paper for a good many years and it is a pleasure to recommend him to our readers. For a copy of his beautifully-illustrated catalog write Mr. D. Hill, Box 216, Dundee, Ill.

The advertisement of the Standard Earth Auger Company on page 52 of this issue gives some practical hints to fence builders. It contains statements with reference to the Standard post hole auger and an illustration which shows that implement in operation. It is a perfected implement which can be adjusted to nine different sizes. It is the most easily-operated post hole auger and is also useful for digging holes and planting trees or shrubs or for digging a well. Catalog giving testimonials, description and price may be had by writing to the Standard Earth Auger Company, 1128-1134 Newport Ave., Chicago, Ill., asking for their catalog "F."

HOME-MADE FURNITURE.

Our readers can have fine furniture at two-thirds the cost without any hard work if they will send for the catalog of the Home Craft Company, 429 Caswell Block, Milwaukee, Wis. This booklet fully illustrates and tells how one can easily and inexpensively construct artistic furniture. It will explain everything. Look up advertisement on page 50 of this issue.

A GREAT SILO PROPOSITION.

Farmers who are interested in getting facts and figures about silo and ensilage feeding should write to the Farmers' Co-operative Produce Company, Dept. B, Des Moines, Iowa. This concern have a proposition that is sure to interest any farmer, especially those who are thinking about buying a silo. A postal card or letter to them will get their proposition and catalog free. See advertisement on page 17.

WILL NOT FREEZE.

An anti-freezing hog waterer that will really work would undoubtedly please many of our readers. The Richards Manufacturing Company, Dept. C, Arapahoe, Neb., whose advertisement appears on page 55 of this issue, think so much of their hog waterer that they are willing to sell it on thirty-days' trial. They are also willing to return money paid for same with 6 per cent interest if it fails to prove satisfactory within a year.

A THOROUGHbred MANURE SPREADER.

The Bloom Manufacturing Company, of Nashua, Iowa, are in receipt of letters from their customers who speak of their spreader as a "thoroughbred." One buyer writes: "It is like my thoroughbreds and differs from other spreaders just as my thoroughbreds differ from heavy, clumsy scrubs." The manufacturers of the Bloom spreader claim that absolutely every feature worth while in other manure spreaders, and none of the disadvantages, are combined in the Bloom spreader. They say this sounds strong, but it's true. In their advertisement on page 58 of this issue these points are fully explained. We suggest that our readers look this up.

NOTHING EQUAL TO IT.

Mr. N. C. Shakel, of Loveland, Ohio, writes about Absorbine as follows: "Have been using Absorbine on a horse with a sprained ankle and never saw anything like it. Tried everything I could think of or ever heard of for a lame ankle for four weeks, including good liniments, and in ten days after using the Absorbine put the horse at light work on the farm, and in three weeks to a binder, after using Absorbine." All of our readers who have a blemished horse should write to Mr. F. W. Young, P. D. F., 37 Temple St., Springfield, Mass., for detailed information. The remedy can be secured through the local druggist or sent direct, express prepaid, upon receipt of \$2. See advertisement on page 28.

A FREE BOOK ON LAND SURVEY.

A booklet entitled "Soil Salvation" is being distributed by the Bostrom Brady Manufacturing Company, 1114 Pine St., St. Louis, Mo. This is a book of farm and land facts gleaned from the practical experience of Mr. Bostrom during his twenty-five years' experience with irrigation, draining and terracing. The farmer who contemplates doing any tile draining, running fences, laying out orchards, leveling foundations, or irrigating, draining or terracing, etc., needs a copy of this book and will undoubtedly be pleased to learn that it can be secured free. With its help and a Bostrom farm level all the expense of a surveyor will be saved, as the farmer can do this work himself. Bostrom's farm level is used and endorsed in every state in the Union. It is simple, accurate, endurable and guaranteed. Look up the advertisement on page 57 of this issue and write them today.

LUMBER TOO EXPENSIVE FOR ROOFING.

According to the statistics just compiled at Washington and gathered from various lumber districts of the United States and Canada, it is learned that the forest fires of the last few years have caused such a shortage that a dearth of lumber will result in America for at least a decade and probably longer. The price of lumber for any use will undoubtedly be much higher than at the present time; even now the quality is much poorer than a few years ago. It is only natural that builders should look to something else than shingles for roofing purposes. During the last six months thousands of farmers who have investigated the roof question have decided to buy the Reo steel shingles, manufactured by the Edwards Manufacturing Company, 118-148 Lock St., Cincinnati, Ohio. One feature of these shingles that is meeting with favor is the fact that they do not attract lightning. This is contrary to the belief in some quarters, but it has nevertheless been proved true in numerous instances. The Edwards Manufacturing Company issue a \$10,000 guarantee bond against lightning. Many other meritorious features of their roofing are set forth in their 1910 book, copies of which will be sent free to

the readers of The Homestead who will write asking for it. See advertisement on page 59.

SCIENTIFIC EVENERS.

The Heider eveners are acknowledged by many authorities to be the best that skill and brains can produce. Thousands are in use. The manufacturers claim that there is none so perfect, substantial or satisfactory. One of their most popular ones is the Heider three-horse wagon evener for wagon, manure spreader, drill or any other implement with pole whereon three horses are needed. They also manufacture two, four, five and six-horse plow eveners, wagon doubletrees, singletrees, neckyokes, etc. It is said their factory is the largest of its kind in the world. Nearly all dealers carry a Heider evener. If our readers cannot find them in their own town they should write to the Heider Manufacturing Company, Dept. 16, Carroll, Iowa. See advertisement on page 55.

DECORATING THE HOME.

A large outlay of money is not essential to make a home attractive. An artist's room may be transformed into a graceful, dainty apartment if a little "know how" is at hand. Cheap wall paper with big, stately flowers will soon be a thing of the past, its place being taken by such material as alabastine. That is a product that may be purchased in any color desired, and no special skill is required in putting it on. It is a powder made from pure native alabaster and it is simply necessary to mix it with clear cold water, after which it is applied with a brush. The cost of decorating a wall in this sanitary and beautiful way amounts to less than two cents per square yard. From this it can be seen that it is cheaper than even the most shoddy kind of wall paper. Alabastine is not mixed with glue to make it stick and this is altogether an advantage, because glue rots and the product with which it is mixed comes off on clothes or on the floor. Alabastine adheres to the wall because of its own cementing qualities and it requires no admixture of paste. Those who have the ambition to make their home more attractive and more sanitary should send to the Alabastine Company, 32 Grandville Ave., Grand Rapids, Mich., for booklet giving full instructions on the important question of decorating the home. It will be sent free if you mention The Homestead when you write. See page 47.

INCREASES SMALL GRAIN YIELD.

The manufacturers of the Van Brunt drill claim that their machine uses 25 per cent less seed than other drills, yet increases the stand 25 per cent over that which results from the work of other drills. This drill plants grain in such a way that every grain has an equal chance. No seed is wasted; none is washed away, eaten by birds, dried to death by the sun or killed by frost. Every seed is planted and securely covered. Not an inch of ground stands idle. It doesn't bunch the grain so that while growing the stalks will strangle each other or die because of insufficient nourishment. Further than this, the manufacturers claim that the Van Brunt drill plants all seeds at uniform depth. Each class of seed can be planted at the depth proper for the best germination. An even depth also insures an even harvest, as all the stalks will ripen their heads at the same time. The Van Brunt drills are made with single disks and are built strong enough to last a lifetime. They have very light drafts. There is practically nothing about them to get out of order and they will not clog in cornstalks, mud or trash. They are equally good for both wheat or oats and with the alfalfa and grass seed attachments make an all-round drill. The Van Brunt Manufacturing Company, 121 Van Brunt St., Horicon, Wis., issue a free booklet telling all about the many valuable features of their drill which will be sent free to the readers of this paper. On the inside front cover of this issue appears a large advertisement descriptive of these drills.

SCHMOLLER & MUELLER PIANOS.

In 1859 Mr. Joseph Mueller engaged in the piano business at Council Bluffs, Iowa. Mr. Mueller has had experience in this line in the East and brought with him a thorough practical knowledge of the construction of pianos. Being a talented musician he soon acquired fame in the West, as good musicians at that time were scarce. Because of this his business grew into prominence and his house became one of the leading piano houses in the West within a short time. In order that his establishment should be kept up to date his eldest son, Arthur, was placed in eastern piano factories for several years. This enabled the western company to keep in touch with all the improvements and changes going on in the trade in the East. A branch house was soon established in Omaha and Mr. William H. Schmoller, a practical piano builder and also an accomplished musician, became identified with the firm. With the increased capital and renewed energy the business grew rapidly. Later the general headquarters of the firm were transferred into Omaha and branch offices opened up in other cities. It can be said that the Schmoller & Mueller Piano Company, since its inception up to the present time, has been owned, controlled and managed by men who had had practical experience and who had learned their trade from the ground up. Furthermore, these men were educated musicians. Being practical workmen they could judge the merits and demerits of pianos, and being musicians they could discern the delicate gradations of tone which has enabled them since the establishment of the house, fifty years ago, to gather under its roof such pianos as are representative of the highest type in the art of piano construction. Ability to judge—ability to buy properly—ability to meet the demands of the public are the factors which bring success to a business concern. The ability to judge means the best goods, the ability to buy properly means getting the lowest market prices; these facilities mean an increase of sales. It is these points wherein can be found the reason why the Schmoller & Mueller Piano Company have reached their present high standard. With ample capital behind them, they are capable of entering the market on a cash basis, buying the best instruments at a minimum of price, which in turn enables them to give their patrons the advantage of every possible discount, and last, but not least, of giving such easy terms as will enable every home to have an instrument without any ap-

preciable inconveniences. On page 49 of this issue the Schmoller & Mueller Piano Company have an advertisement in which is a special offer to the readers of The Homestead. Readers of this paper in writing them should address Dept. H. D. 2, Omaha, Neb.

SCALE WEIGHTS.

The farmer, perhaps, to as great an extent as men in other lines of business, should know every detail of his occupation. One of the greatest aids in this is a good platform scale. It may be taken advantage of in a hundred ways and if used properly should be the means of the saving its own price easily in a year. Every farmer should take advantage of the opportunity to own a scale like the Osgood pitless scale at the low price of \$45 and guaranteed to be absolutely reliable. A catalog giving illustrations of the many styles of the Osgood scale and also prices may be had by writing to the Osgood Scale Company, Box 103, Binghamton, N. Y. This scale is advertised on page 52.

SAVING THE FARMER'S BACK.

"Loading farm wagons with high wheels kills more farmers than consumption, pneumonia or typhoid combined," is the assertion of an authority. "Most farm wagons," he continues, "are two feet higher than seems necessary and it's the last two feet of the lift that kills." There is no question of the backaches, armaches and legaches that come from lifting. Every farmer knows what a day in the hay field or harvest field means. Everyone who has loaded potatoes, apples, grain, feels the muscle pains at the mere recollection of it. The Empire Manufacturing Company, of Quincy, Ill., suggest a way to do away with the killing lift of loading. It is simply that farmers provide themselves with a set of Empire low steel wheels to use on the wagons when any farm hauling is to be done. The Empire Manufacturing Company make low steel wheels from twenty inches up. The change from wooden to steel wheels can be made in five minutes any time. By having a set of steel wheels the farmer can save himself a lot of drudgery every time any hauling is to be done. Whenever he wishes to use high wooden wheels on the road the change from the steel wheels can be easily made. The beauty of this is that the Empire low steel wheels cost only half as much as wooden wheels—the first part of the wagons that wears out. They also save the team because wide steel wheels make a load at least a third easier to pull. The broad tread saves the field from being cut up as they are by the narrow-tread wooden wheels. Altogether Empire low steel wheels are a distinct blessing. Any farmer can have them for so little cost that it is an extravagance to do without them. The Empire Manufacturing Company send a free book showing a simple method of measuring skins for perfect-fitting steel wheels. They are wheels for every purpose from ordinary farm hauling to logging. This company also make a handy wagon at an exceedingly low price. The Empire steel wheels on the Empire handy wagon is an ideal combination. Either the wheels or the wagon will be sent for a free thirty days' trial—no money down. Readers of The Homestead are urged to write for the attractive wheel and wagon booklet. It gives information of great value whether the farm reader thinks of buying or not. A postal card to the Em-

pire Manufacturing Company, Box 85, Quincy, Ill., will bring it. See large advertisement on page 9.

MACHINES REALLY GUARANTEED.

A great many manufacturers sell their machines with dealers with the guarantee that they may be returned if not found satisfactory. They take advantage of the farmer because they realize he will not return his goods through his home dealer, with whom he is on good terms, because he is afraid the dealer will feel offended. This leads many farmers to keep machines or throw them in the scrap heap that they would be glad to return. The L. J. Owens Company, of Minneapolis, Minn., operate on an entirely different basis. They have a proposition in their large advertisement on pages 40 and 41 of this issue which, if accepted by the reader, enables him to go to his home dealer and purchase either their corn grader or New Superior fanning mill under their iron-clad guarantee that the machine will do all they claim for it, but if it does not the company will immediately take it off their hands, or remedy the defect. The purchaser does not have to bother his dealer about the matter; he can simply send it back to the L. J. Owens Company and have his money returned from Minneapolis. The dealer will not be compelled to relinquish his commission for the sale because of the failure of the machine to do the work he has claimed for it. Special attention is called to the Owens corn grader, which insures a perfect stand of corn by sorting the kernels so that the planter will drop it accurately and regularly. This sorter will increase the yield of one acre enough to cover the purchase price. The New Superior fanning mill made by this company has important improvements this year, the principal one being a double capacity gang. This ingenious device is fully illustrated and described in the new catalog

Let Us Put A Tank of Sunlight in Your Home

THE HANDY LAMP



makes night like day. It cheers your home with a brilliant flood of light and cheers your pocket-book by cutting down your light bills. Nothing about it you cannot understand; nothing to it to get out of order. You turn it up or down, like gas, burn dim when not in use, or turn up instantly when you want more light. No smoke, no odor, no risk. Saves 50 to 75% over kerosene. Gallon of gasoline gives 50 hours of 300 candle power light. Our book shows why the Handy Lamp is BETTER than any other lamp and BEST for you. Get it now.

Brilliant Gas Lamp Co., Dept. 50 42 State St., Chicago

Get My Price

This Ad Saves You Dealer, Jobber, Supply Men, Catalog-House Profits. Nobody Can Beat It

Buy direct from the biggest spreader factory in the world—my price has made it. No such price as I make on this high-grade spreader has ever been made before in all manure-spreader history. Here's the secret and reason: I make you a price on one based on a 30,000 quantity, and pay the freight right to your station. You only pay for actual material, labor and one small profit, based on this enormous quantity.

on it. They all tried it 30 days free, just like I ask you to try it—30 DAYS FREE.

Drop me a postal and say—"Galloway, send me your Clincher Proposition and Big Spreader Book, Free, with low prices direct from factory."

T. F. Stice, Oswego, Kans., writes me—"Often pull it with my small buggy team. Does good work. Have always used the ... before. Galloway much the best. If going to buy a dozen more, they would all be Galloways. Thousands more letters like these here.

Wm. Galloway Company, of America, 109 Galloway Station, Waterloo, Iowa

GALLOWAY

Wagon-Box Spreaders

—Save You \$25 to \$50 Cash—Freight Prepaid

Here Are Facts You Want To Know—

Hans M. Johnson, Parkston, Minn.: "I would not trade my Galloway for any \$125 spreader I have ever seen."

Garrett Mathias, Mathias, W. Va.: "It is worth two of the ..."

Dewey Hicks, El Reno, Okla.: "Have used a \$135 machine. Couldn't think of changing even."

C. C. Johnson, Morrison, Mo.: "The ... isn't in it with the Galloway."

My Price—the Lowest
With Exclusive Roller-Feed—worth \$25 to \$50 Alone

The ONLY Endless-Apron Force Feed Spreader in the World.

From 50 to 70-bu. Capacity, With Complete Steel Truck Spreader, only \$90.00.

Positively the only successful wagon-box spreader made today in the U. S.—Freight Prepaid East of Rockies and North of Tennessee—Freight Allowed that Far to Points Beyond.

The ONLY Spreader with MALLEABLE and STEEL for ALL Parts that break and wear out in other spreaders.

Fits the wagon gears you already have.

which the company will send free to the readers of The Homestead. For all-round perfect work and capacity the manufacturers claim no machine will approach the work of the New Superior. More information than it is possible to put into this article will be found in the large advertisement of the L. J. Owens Company, 614 Superior St., Minneapolis, Minn., on pages 40 and 41 of this issue. In writing them please use the coupon in the advertisement.

Mr. T. F. Harrington, of Sioux City, Iowa, whose advertisement appears on this page, will soon move his branch office from Dallas to Carter, S. Dak., where he and his associates have organized a Farmers State Bank. Carter will be the end of the extension of the Chicago & Northwestern from Dallas through Tripp county, and will hold the same position to Mellette and Bennett counties that Dallas did to Tripp county. Bills for the opening of these counties in congress have been reported favorably. See this page.

One of the most pleasing fancies that can be taken up is the practice of photography and there is no more promising field than that of the farm. The photographing of animals can be made a pleasure as well as a matter of profit on every farm. It is an occupation that will be both interesting and instructive to every member of the family. Those who have not had experience with photography should know that the processes are simple. They may secure highly interesting information from the Kodak catalog advertised on page 46 of this issue. This catalog is sent free of any expense to those who write to the Eastman Kodak Company, 392 State St., Rochester, N. Y.

After all the agitation concerning stock tonics there is really no secret about them, neither about their effects upon live stock. No one doubts now the usefulness of stock tonics. Their good effects are as certain as the nutrient actions of feeds. Feed sometimes nourishes and sometimes it doesn't. It depends altogether on the condition of the organs of digestion and assimilation. But a good tonic, used as intended, always acts with a stimulating and restorative effect on



FREE PAIL

the functions that make nutrition possible. The Wilbur Stock Food Company offer to demonstrate the certainty of the benefits of their stock tonic, in every case, by giving away, in localities where they have no agent, a twenty-five pound pail to any stock owner who will ask for it, accompanying the request by a statement of the number of head of stock he owns. They have been making this stock tonic for twenty-five years and know absolutely what it will do. They run no risk in giving away the twenty-five pounds, as they are certain it will be its own best solicitor in the hands of the intelligent stock owner. Our readers who wish to take advantage of this offer should write at once to the Wilbur Stock Food Company, 710 Huron St., Milwaukee, Wis., stating the number of hogs, cattle and horses owned. A page advertisement will be found on the last page of this paper and in the same a coupon which may be used in sending in a request for a free pail of stock tonic.

GUARANTEED HOT WATER BOTTLE.

Taylor's detachable hot water bottle will last a lifetime. It is light, safe and practical. See advertisement of Franklin Taylor Company, Janesville, Wis., on page 61.

NO SILO NEEDED.

Ensilage can be made and kept in good condition by a new process which the Stack Ensilage Implement Co., Northwood, Iowa, claim will save the readers of this paper hundreds of dollars. See advertisement on page 60.

ENDORSES TOWER SYSTEM.

Towers' system of surface cultivation which has made Mendota, Ill., conspicuous, is endorsed by Mr. Geo. W. Jackson, of Ridgeway, Ill., in substance, as follows: "Your cultivator has done all you claim for it. It is a wonder weed killer, and keeps the ground in moist condition constantly. Your pulverizer saved three weeks' work in preparing my wheat ground. It's the best tool for preparing a seed bed that I ever handled or saw. It equals two harrowings. Both implements are worth twice their price." Thirty years' test has proved surface cultivation by Towers' system the one that increases yield and destroys all noxious weeds, the best for corn, cotton, potatoes, sorghum, kafir corn, etc. Farmers of the corn belt have saved many millions of dollars by using it. Our readers should write for the illustrated treatise on "Corn Culture" to J. D. Tower & Sons Co., 40th St., Mendota, Ill. See advertisement on page 24.

A WAGON STORY.

On the inside front cover of this issue of The Homestead there appear two pictures in the advertisement of the Davenport Wagon Company which tell a story which will be appreciated by every farmer. Two wagons at Beardstown, Ill., were driven over the same muddy road. One was a Davenport roller-bearing steel wagon while the other was an ordinary farm wagon. The wheels of the ordinary wagon caked with mud from hub to tire, but the wheels of the Davenport wagon remained practically free from mud. This illustrates only one of the good features of the Davenport roller-bearing steel wagon. These wagons, the manufacturer claims, are 30 to 50 per cent lighter in draft than ordinary farm wagons. This means much to the farmer who is wise. The gears of this wagon are made of solid steel, rolled into strongest forms and trussed like a bridge. This combines lightness and strength. The wheels are steel with strong, round spokes forged solidly into the hubs and hot riveted into tires. There is nothing to dry apart, shrink, rot or work loose. No tires to reset, no break-downs, no repairs. Oiling can be done without removing the wheels. One Davenport

LANDS AND HOMES FOR SALE

Colorado Irrigated Land

22,000 acres of irrigated Government land in Southeastern Colorado has recently been opened for entry under the provisions of the Carey act. The State of Colorado has contracted with the Two Buttes Irrigation and Reservoir Company to construct the irrigation works for the reclamation of this tract of land, which is located in Baca and Prowers counties, close to Rocky Ford and other proven districts. Water rights are of incontestable priority and title to land comes direct from the State.

Price of Land 50 Cents Per Acre Perpetual Water Right \$35 Per Acre

Payable \$5.25 per acre cash, balance in ten annual payments. The tract is nearer Kansas City and Mississippi Valley markets than any other Carey act project. Land free from brush and stone, and soil will average 50 feet in depth. Altitude, 4,050 feet; climate best in State; rainfall 16 inches; crops, all grains, alfalfa, sugar beets, vegetables and fruit; no alkali. Local markets for everything. No agents employed and no commissions paid. Farmers wanted, not speculators. For particulars write,

THE TWO BUTTES IRRIGATION AND RESERVOIR CO., LAMAR, COLORADO.

Missouri Farms

GRUNDY COUNTY, MO.

Corn, Wheat, Clover and Alfalfa Lands

HIGHLY improved farms of 80 acres up. Good roads, good schools, good markets. All kinds of fruits, natural groves, mild climate. Many Iowa farmers here, all prosperous. Most natural dairy country in U. S. Taxes very low. Easy terms. Low rate of interest. Small cash payments required. Write me, stating about what you want.

H. J. HUGHES, 317 WATER ST., TRENTON, MISSOURI.

302 ACRES FINE BUILDINGS EASTERN KANSAS \$7,500

WE acquired recently a 302-acre farm in Elk Co., Kansas, which we are anxious to sell before the 1910 lease takes effect March 1st. We have been holding it at \$9,000, but will sell at \$7,500, 1/2 cash with deed, or 1/2 cash with contract. 1/2 is tillable and has firm pasture with unusually fine water supply. Buildings extra good and worth \$2,000. Write for full particulars. Buland Security Company, 1110 Commerce Bldg., Kansas City, Missouri.

wagon will last a lifetime. More about these wonderful wagons can be learned by writing to the Davenport Wagon Company for their catalog C.

SKIRTS MADE TO MEASURE.

The Young Married Folks Bible Class of the University Place Church of Christ, Des Moines, Iowa, offer our women readers excellent bargains in tailored skirts. They will send samples and illustrations free. See advertisement on page 48.

BURBANK BEATEN.

The Hawkeye grain grader "makes \$2 grow where \$1 grew before." This is the claim of its manufacturers, the Maytag Co., 300 North St., Newton, Iowa. A catalog fully describing the merits of this machine can be secured by writing the company at this address. See the advertisement on page 61.

BIG CARPET BARGAINS.

In a recent issue of this paper there appeared the advertisement of the Telfer Carpet Company, of Des Moines, Iowa. This is an establishment which, having been in the carpet and curtain business for a number of years, has succeeded, by means of fair dealing and full value of goods, in building up a large and profitable business. At the present time the firm have on hand a full and complete line of the latest patterns in rugs and handsome carpets and all the newest designs in lace curtains. All of these are fully described and prices given in a carpet

catalog which is sent free to all readers of this paper who write to Mr. S. B. Telfer, president Telfer Carpet Company, 804 Walnut St., Des Moines, Iowa. These goods are sold direct to farmers at prices which must make them attractive.

STEPHENSON'S POLAND CHINA SALE.

Mr. J. A. Stephenson, of Mt. Airy, Iowa, sold forty head of Poland China brood sows on the 26th of January at an average of \$31.25 each. The prices ranged from \$77 down to \$23. The offering was an exceptionally good one and the low scale of prices was due to the almost entire failure of the corn crop in that vicinity. Among the buyers were Messrs. J. H. Wintermute, Blackton, Iowa; Geo. Allyn, Mt. Airy, Iowa; Grant Jones, Davis City, Iowa; James Pritchard, Mt. Airy, Iowa; Chas. Jerrens, Tingley, Iowa; W. C. Smith, Melbourne, Iowa; Ray Justus, Egan, S. Dak.; J. B. Gettlingham, Platte City, Mo.; William Fife, Mt. Airy, Iowa; R. C. Holden, Mt. Airy, Iowa; Howard French, Kellerton, Iowa; John R. Wright, Mt. Airy, Iowa; Thomas Miller, Mt. Airy, Iowa; J. A. Williams, Mt. Airy, Iowa; Pat Garity, Mt. Airy, Iowa; John Arnold, Mt. Airy, Iowa, and Joe Newton, Mt. Airy, Iowa.

A PARADISE RECLAIMED

15,000 ACRES ACTUALLY IRRIGATED IN THE BEAUTIFUL PECOS RIVER VALLEY OF TEXAS

DEEP, rich soil; abundance of water; delightful climate. Right on Santa Fe railroad; station in center of the tract. DAM, RESERVOIR, CANALS. ALL COMPLETE NOW. Fine water with every acre. Selling fast. Act quick if you want an actually irrigated farm cheap, or an investment that will pay you 50% annually. Excursions and cheap rates first and third Tuesdays of each month. Most desirable irrigated land and town site proposition on the market today. Send for interesting booklet. Tells you all about it. Good live agents wanted in every locality.

ARNO IRRIGATED LAND CO., TOPEKA, KANSAS.

HOMESEEEKERS

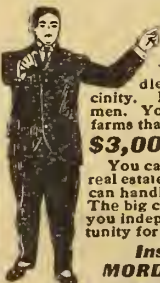
WHY go to the frozen North or to the humid, malaria-stricken South when you can buy land just like your Iowa land; land that is growing just the same crops of corn, oats, wheat, that your Iowa land is growing; the same markets, same climate, ample rainfall; land that will sell for just as much per acre as your Iowa land within five years, that you can buy now for from \$15 to \$35 per acre. I have 8,000 acres of Indian deeded land in the Rosebud country of South Dakota, in Gregory, Tripp and Mellette counties, that I am offering at reasonable prices and terms. I want a few more bustling, reliable agents. If interested, write.

HARRINGTON, Iowa Building, SIOUX CITY, IOWA.

Bankrupt Sale--1,080 Acres Iowa Land

THE undersigned, trustees in bankruptcy of the estate of Oscar M. Hartzell, bankrupt, will, by the order of the court, sell at private sale, free and clear of liens, the following described real estate, situated in Madison County, Iowa, to-wit: All of Sec. 14, except schoolhouse site; the E. 1/2 of Sec. 15, and the N. E. 1/4 of the S. W. 1/4, and the S. 1/2 of the S. E. 1/4 of Sec. 10, all in Twp. 77 N. of R. 26, W. of the 5th P. M. The above real estate will be sold in tracts of 80, 160 or 320 acres, to suit purchaser. Bids on the land will be received by said trustees at the office of the Corn Belt Land & Loan Co., 2d Floor Crocker Bldg., Des Moines, Iowa, up to and including February 15, 1910. This farm is well improved; well fenced and cross-fenced; well watered by streams, springs and wells, and is well calculated for general farming and stock. It lies 2 1/2 miles S. W. of Cumming, Iowa, and about 15 miles S. W. of Des Moines, and about 18 miles N. E. of Winterset, Iowa. The trustees reserve the right to reject any and all bids, and any bid acceptable to the trustees, and any sale made thereunder will be subject to the approval of the court. The lands must be sold to settle the estate.

Frank L. Hall, L. J. Klemm, A. F. Brown, Trustees.



We Want YOU

We want a good, live man to handle real estate and loans in your vicinity. Farmers make the best real estate men. You can make more money selling farms than farming them. Hustlers make

\$3,000 to \$10,000 a Year

You can do the same. We teach you the real estate and loan business by mail so you can handle real estate and loan deals for us. The big commissions we pay you will make you independent. This is a golden opportunity for you. Write for Free Book today.

Instruction Department,
MORDEN LAND & LOAN CO.,
538 Palace Bldg., Minneapolis, Minn.

FARM BARGAINS

GOOD lands, crops, schools, climate and health. Best grass country in the South. Highest part of Louisiana (n. w. part). Improved farms, \$12.50 per acre; improvements worth the money. East of the dry belt. More profit growing stock, hay and feed here than north. Literature free.

De Soto Industrial Co., Box F, Mansfield, La.

An Excellent Stock Farm

CONTAINING 330 acres, adapted to blue grass, timothy, clover, corn, wheat, oats and fruits. Good improvements; an abundance of water for stock. Well fenced and cross-fenced with woven wire. Located five miles from Sedalia, Mo. (a city of 20,000 population), and three miles from the Missouri State Fair Grounds. Ideal for blooded stock and general farming. This splendid farm may be had at a bargain. For full description, price and terms, address

C. W. Daugherty, Box 10, Sedalia, Mo.

NEBRASKA LANDS

DON'T you want land at \$25 to \$75 per acre, in the Corn Belt, combined with alfalfa, which produces the world's supply of the meat and cereal (non-perishable) products? Now is the time to buy at right prices. We guarantee satisfaction, after 25 years in Farms Co., Neb. Write us for information. PIONEER LAND CO., CAMBRIDGE, NEB.

BLACKFOOT, IDAHO, FRUIT FARMS.

RANCHES, stock farms, potato lands, alfalfa, wheat, oats. Get out of your trance and come to the Snake River Valley. Health, happiness and wealth await you here. Agents wanted on liberal com's. Booklet free. C. O. Burkett, Blackfoot, Idaho.

HOMESEEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address

The Allen Co. Investment Co., Longton, Kan.

IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advance so rapidly in price. Illustrated literature. Write today. Eugene T. Thomson, Crawford Block, Sedalia, Missouri.

SPLENDID FARMS

IN the corn belt; good improvements; \$50 to \$80 per acre. The good crops will tell you what the soil is; mild winters. On Rock Island railroad, 90 miles east Kansas City, 200 west St. Louis. List and particulars free. J. E. McConnel, Ionia, Missouri.

IRRIGATED LANDS

In Colorado, under per-passed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R.R. Superior local and foreign market. In tracts from 5 to 1,000 acres, at \$100 and up. ORDWAY LAND CO., ORDWAY, COLO.

WESTERN CANADA

Senator Dolliver, of Iowa, says:

"The stream of emigrants from the United States to Canada will continue."

Senator Dolliver recently paid a visit to Western Canada, and says: "There is a land hunger in the hearts of English speaking people; this will account for the removal of so many Iowa farmers to Canada. Our people are pleased with its government and the excellent administration of law, and they are coming to you in tens of thousands, and they are still coming."

Iowa contributed largely to the 20,000 American farmers who made Canada their home during 1909. Field crop returns alone during year added to the wealth of the country close to

\$170,000,000.00

Grain raising, mixed farming, cattle growing and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts; 160 acres pre-emption at \$5.00 per acre within certain areas. Schools and churches in every settlement, climate unexcelled, soil the richest, wood, water and building lumber plentiful. For particulars as to location, low settlers' railway rates and descriptive illustrated pamphlet, "Last Best West," and other information, write to Sup't of Immigration, Ottawa, Can., or to Canadian Gov't Act.

W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 515 Jackson St., St. Paul, Minn.



Near Gulf Coast Region

\$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana In Vernon Parish, at Pickering, on Kansas City Southern R.R. Early fruit; truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops.

NO IRRIGATION SCHEME, 60 inches annual rain fall, beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. J. D. LeBRIE, Gen'l Land Agent Pinealand Mfg. Co., 633 Keith & Perry Bldg., Kansas City, Mo.

LAND OPENING

IN the famous Arkansas Valley, Colorado. Our Irrigation system is one of the best, and our land as fertile as any in Colorado. A reasonable number of tracts now offered at \$30 per acre, with perpetual water right on terms without interest. This land will quadruple in value within a few years. Close to R.R. and markets. Your railroad fare refunded if you buy. Write for map and booklet. Agts. wanted.

MONSON & MALCOM REALTY CO., 300 Kiltredge Building, Denver, Colorado.

IOWA FARMS

OUR 1909 new illustrated catalog of improved farms in Iowa and other states is ready. Be sure to send for it if you want to buy or exchange for land. Also have some good income and other property for sale and exchange.

NORTHERN IOWA LAND COMPANY, Independence, Iowa.

MUST BE SOLD AT ONCE

ONE of the best breeding ranches in the United States. 900 acres, 450 acres in alfalfa, in Republican valley, Neb., 4 miles from city of 5,000. Two good residences, breeding barns, elevator, with engine and complete grinding equipment. \$60 per acre, terms to suit. A prize-winning herd of Herefords can be purchased if desired. Owner wishes to retire. Don't write unless you mean business. 219 Main Ave. Bell phone 326. E. J. Mitchell, McCook, Neb.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also 1/4 section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

AMONG THE HORSEMEN.

The readers of The Homestead who are in the market for imported or home-bred Percheron or Belgian mares will be interested in the advertisement of Mr. C. G. Good which appears on page 77 of this issue. Mr. Good has some specially attractive mares of both breeds. Some of them have been good enough to win in show rings and one in particular was a prize winner in the St. Louis World's Fair. Mr. Good does not have any expensive concern to support and is therefore able to quote prices that are much below those that would be necessary to the ordinary importer. He invites personal inspection of his stock. Ogden is located on the main line of the Chicago & Northwestern Railway, as well as the Minneapolis & St. Louis railroad, and the farm adjoins the town so that there need be no loss of time to those who make inspection. Those who cannot make personal visit may write Mr. C. G. Good, Ogden, Iowa.

Under date of January 26th, Mr. J. G. Truman, manager of Trumans' Pioneer Stud Farm, as advertised on page 79 of this issue, writes, saying: "Notwithstanding the extreme rough weather experienced on the ocean during the past fortnight, our horses arrived off the steamship Minneapolis in very good condition. They came through by express and will be ready to show to prospective buyers next week. Included in the shipment were several noted prize-winning Percheron, and Belgian stallions. The remainder of the importation is made up of an extraordinary lot of Shire stallions from two to five years old." The handsomely-illustrated and descriptive catalog of the Truman horses is now ready for distribution and as it portrays from life of upwards of 100 of very great horses it cannot fail to prove interesting. It may be had by sending in a request to Trumans' Pioneer Stud Farm, Bushnell, Ill.

LAKESIDE CLYDESDALES.


Buyers of Clydesdale mares should read the advertisement on page 75 of the Lakeside Farm, at Storm Lake, Iowa. This announcement gives some initial details of the public sale of forty head of Clydesdale mares which will be sold at Storm Lake on March 2d, next. These are Canadian and home-bred mares of useful ages, big, drafty ones weighing from 1,600 to 1,800 pounds. The additional details will be given in later issues of The Homestead.

MORE LAKEWOOD ANNOUNCEMENTS.

It is a gratifying tribute to the genius of the firm of Messrs. H. G. McMillan & Sons, of Rock Rapids, Iowa, that the consignment of 100 Percheron horses which they will put under the hammer of the auctioneer at Sioux City, Iowa, on February 8th and 9th, is as good as the breed affords and will compare favorably with any like consignment at any other time or place. As has been previously stated, the offering is made up of twenty-five two-year-old stallions, fifteen yearling stallions, forty-five mares two years old or over, all of which have been bred, and fifteen yearling fillies. Nearly 25 per cent of the entire number are by that great champion and grand champion, Calypso, and most of those not of his get have been bred to him. Others are bred to Cartilage. This pair make up two of the more noted stallions of the breed. This is the fifteenth annual sale from the Lake-wood Farm and without doubt it comprises the best offering ever sent out from that noted institution. The two-year-old stallions in particular are noticeable because of their high excellence. Nearly all are black and many of them were in the last year's show circuits. They belong to the low-down, blocky, ton type; have good bone, straight, flat hind legs and stand on feet that are above criticism. Nearly all of them have been raised right in the pastures and have roughed it almost up to the present time, barring only a little while necessary to prepare them for this sale. This situation insures that they will need no conditioning. These horses are sold on an absolute guarantee that protects the buyer at every point. Buyers are invited to come to Sioux City on the day previous to the sale and make a personal inspection of the consignment before they are sent into the ring. There are a good number of splendidly-matched mares that ought to be sold in pairs and that cannot fail to please

Get this Genuine Carborundum Tool Grinder on Free Trial

(Diamond)



Sharpen your tools at my expense. I want to show you that the ancient grindstone is a back number and that the emery wheel is a menace. I want you to try positively free this Genuine Carborundum Farm Tool Grinder. Carborundum is the only true abrasive. It will not draw the temper from steel; it will sharpen the dulllest tool in from 3 to 5 minutes, when the grindstone would take half an hour. Carborundum never wears out. It does not glaze over. I want to send a few of these machines out on Free Trial in every part of the United States. I want to put one in every locality. I want you to clip off and send the coupon at the upper right hand corner of this announcement, and I will mail you at once my circulars explaining every detail of the offer I am making here.

I Don't Want You to Send Me a Cent of Your Money. I Don't Want Any Promise.

I merely want to place this Genuine Carborundum Grinder on your farm for a few days. Sharpen your dull axe, your dull scythe, your dull corn knives, your dull cold chisels, or hatchet, or any dull tool you have. See how Carborundum (made of the substance of real diamonds) sharpens your tools in from one-fourth to one-twentieth of the time required by a grindstone and does not heat nor draw the temper. Do all this—give this great machine the most severe tests—then unless you think that you positively cannot get along without this Carborundum Tool Grinder, send it back at our expense. We'll ask no questions. We'll take it back without a word, and we'll pay the transportation charges. Now send the coupon. Let us tell you all about this wonderful abrasive and our free trial offer.

Remember—Carborundum is really manufactured diamonds. It is made from the very same substances which go to make up diamonds. Carborundum will scratch a diamond and cut glass like a knife cuts an apple. Send the coupon today and get full explanation of our Great 10 Day Free Trial Offer. Do this now. Do not delay.

HARMAN SUPPLY COMPANY, 160 E. Harrison Street, Dept. 3782 CHICAGO, ILLINOIS

Name _____

Address _____

No letter necessary; merely send the coupon

7 MACHINES IN ONE

- 1—One Carborundum Plow Share Grinder
- 2—One Carborundum Tool Grinder
- 3—One Carborundum Saw Gummer
- 4—One Carborundum Sickle Grinder
- 5—One Heavy Carborundum Felt Polisher
- 6—One Lighter Carborundum Polisher
- 7—One Carborundum Hone

those who know what real choice Percherons are. Catalogs may be had by forwarding application to Messrs. H. G. McMillan & Sons, Rock Rapids, Iowa. See the advertisement on page 76.

THE CROUCH IMPORTATIONS.

Among the leading firms of draft and coach horse importers, Messrs. J. Crouch & Son, of LaFayette, Ind., stand in the front rank. During the past show season their exhibit at the leading state fairs attracted wide attention and as a result their barns are daily the objective point for men who are in search of high-class Percherons, Belgians, Shires, Hackneys and German Coachers. With something like 200 head of stallions and mares of the above breeds there is no reason why the most critical buyer should fail to secure just what he wants. Although the firm have been in existence for a great many years and have imported great numbers of high-class animals they have never before been in better shape to supply strictly good ones. They are offering remarkably low prices, and backing them up by a liberal guarantee, which has behind it a financial responsibility not to be questioned. The advertisement of the LaFayette Stock Farm will be found on page 77. Our readers are invited to visit it in person, or if they should be unable to do so, write for any information to Messrs. J. Crouch & Son, LaFayette, Ind.

NEW IMPORTATIONS AT LINCOLN.

The advertisement of Messrs. Watson, Woods Bros. & Kelly, which appears on page 76, gives some interesting details with respect to the more recent importations of Percherons, Shires and Belgians now to be found at the barns of that firm at Lincoln. Readers of this paper who are interested in horses of the breeds named should procure a copy of the catalog recently issued by this firm. It is more than usually attractive from the fact that it contains numerous faithful, photographic illustrations, with other matter which combines to make it one of the most interesting catalogs that has been printed. The first point that draws attention is the illustrations of horses more recently imported. Aside from this, however, there are illustrations showing comparisons of types which are of intense interest to the buyer who is in search of real information as to those points which go to make up a good or a poor horse. The firm assure us that the importations of the present year include more of the large, heavy-boned, drafty type than is usual. They range from the great, big 2,800-pound gray six-year-old Shire down to the two-year-old colts of a promising, clean-limbed type. All these horses have been selected in their native countries by Mr. Joseph Watson, who is recognized among importers as perhaps the best and most careful judge that is engaged in the business. The catalog referred to may



We will pay the freight both ways and refund your money if after thirty days trial you do not find the WATER-LOO BOY gasoline engine entirely satisfactory.

factory. We make this offer to you in good faith and trust to your honor to give the engine a fair and satisfactory trial. We make you judge of the merits of our engine.

The Waterloo Boy

will do more work than any \$45 a month hired hand you ever heard of, and we'll let you prove it. We'll send a **Waterloo Boy** to any responsible farmer who will hitch the engine up to his hard work and give it a month's trial. You are one of them. If it doesn't convince you that you are losing money by not having it on your place, send it back, freight charges at our expense.

Our terms make it easy for any farmer to own a **Waterloo Boy**.

You can afford to buy a gasoline engine, for they are money-savers, but you can't afford to buy until you've tried the **Waterloo Boy**. It has already stood the test of 17 years steady service and is good for a lifetime. It is **guaranteed for five years**. It is the simplest engine to operate—most economical of fuel—develops the full rated horse power—safest engine built—never balks in any weather—costs only five cents a day to run.

We have a fully illustrated catalog describing the **Waterloo Boy** engine and giving many valuable engine facts. Write for it. Do it today, while it's on your mind. Address

Waterloo Gasoline Engine Co.,
176 W. Third Avenue, Waterloo, Iowa.

Use This Waterloo Boy 30 Days Free Free Free Free



Midland King sells in the Finley jack and jennet sale, Higginsville, Mo., on Monday, February 28th, at which time Mr. W. J. Finley sells thirty Mammoth black jacks and fifteen Mammoth bred jennets. Midland King is a six-year-old; he stands close to sixteen hands high, has the great head and ear that please jack men and is one of the best-honed jacks to sell this year. See page 73 for Mr. Finley's advertisement and send for his catalog, mentioning this paper.

be had by sending a postal card request to Messrs. Watson, Woods Bros. & Kelly, Lincoln, Neb. See advertisement on page 64.

FINLEY'S GREATEST JACK AND JENNET SALE.

On Monday, February 28th, on the fair grounds at Higginsville, Mo., Mr. W. J. Finley, of Higginsville, Mo., will make his fourth annual sale of Mammoth-bred jacks and jennets. Mr. Finley has for twenty years made the jack business his work. He breeds many good ones. He also travels through Kentucky and Tennessee looking for good jacks to add to the good ones he finds in Missouri, and when he has gathered these at his barns in Higginsville they are offered to the public. Each year he makes an annual sale of the best jacks he has been able to find and this year he is making the best offer yet put up. For this sale Mr. Finley has thirty Mammoth jacks and fifteen jennets, all good and all the very best colors—black with mealy points. One of the greatest jacks of the sale is Midland King, a Kentucky six-year-old that has few superiors. He is best described as being a plum good one and it cost Mr. Finley a good round sum to secure this great jack for the sale. He is a jack that can be used to head a good herd of jennets or for a great mule jack. Mr. Finley has for some years been trying to secure Dr. McCord, one of Kentucky's greatest show and breeding jacks, and last fall he secured this great jack and four of his best sons. The four jacks secured with their sire are included in the sale and they should make a record for their sire. The jennets are bred to Dr. Long. Mr. Finley's herd jack that is held above price. He is a four-year-old, a big, black fellow with the markings of the best. His colts show that Mr. Finley has made no mistake in tying to him for a herd header and those who get jennets in foal to him will have the satisfaction of knowing they will get colts by a great jack. Some day Mr.

Finley will probably make a great show with the get of this jack and then all will be hunting for his get. Mr. Finley has issued a beautifully-illustrated catalog showing to good advantage many of the jacks and jennets that sell. Send for one and kindly mention this paper when doing so.

TAYLOR & JONES' NEW IMPORTATION.

Messrs. Taylor & Jones, of Williamsville, Ill., breeders and importers of Percheron, Shire, Belgian and Coach stallions and mares, write as follows: "Our new importation is now in the barns and we are in a position to please even the most particular buyer in a draft stallion. As there is to date no great expense on these horses in way of risk, feed and care, we can name very low prices on them and we invite you to come and inspect them. Since our last report of sales we have sold to the following named persons: J. H. Aber, Mt. Sterling, Ill., an American-bred Percheron; Anderson Bros., Morrisonville, Ill., an American-bred Percheron; J. A. Scott, Virden, Ill., an imported Percheron; Best & Haller, Nokomis, Ill., an imported Shire; J. W. Coffman, Jr., Weldon, Ill., an imported Percheron; J. A. Cowdery, Lyons, Kan., an imported Percheron; C. G. Decker, Philo, Ill., an imported Percheron; J. W. Hunter, Tuscola, Ill., an imported Shire; C. G. Davis, Timewell, Ill., an imported Percheron; J. W. Schenck, Ferris, Ill., an imported Percheron; Becker & Conrad, Marine, Ill., an American-bred Percheron; Warwick Jones, Midland City, Ill., an imported Percheron; Ben Jacobs, Hoopston, Ill., an American-bred Percheron; J. F. Jeckel, Emden, Ill., an imported Percheron; Johnston Bros., Brooklyn, Iowa, an imported Shire; B. R. Lewis, Coffeen, Ill., an American-bred Percheron; G. B. Loper, Chesterfield, Ill., an imported Percheron; Jacob Mohr, Normal, Ill., an imported Percheron; J. H. Miller, Shelbyville, Ill., an imported Shire; and Ben O. McLean, Hillsboro, Ill., an imported Percheron." See advertisement on page 79 of this issue.

The Cyphers Incubator Pays From the Start

Begin right—whether you are in the chicken business on a large or small scale. Don't "experiment up" to Cyphers quality. Get the best first. The Cyphers means no moisture troubles, no heating troubles, no ventilation troubles. Biggest percentages, healthiest chicks. It's the best by test.

The World's Standard Hatcher

Used by more Government Experiment Stations, more State Agricultural Colleges, more well-known fanners and Practical Poultrymen than all other makes combined. A hot-air machine—no metal tanks to rust out. Self-regulating; self-ventilating.

Cyphers Incubators and Brooders are guaranteed to you personally. You have 60 days—4 hatches—to prove a Cyphers Incubator. Money back if you want it after fair trial. 100-page Catalog free. Address Nearest City. Cyphers Incubator Co. Department 42. Buffalo, N. Y.; New York City, N. Y.; Chicago, Ill.; Boston, Mass.; Kansas City, Mo.; Oakland, Cal.



The City Man Says

eggs cost more each year. This is true, yet thousands and thousands of city folk keep poultry to produce the family supply. The raising of poultry and the production of eggs increases each year. The demand grows faster than the production. Result—

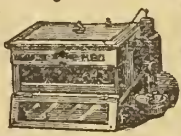
THE PRICE GOES UP

The poultry industry has greater possibilities than ever before and it's profitable on either small or large scale. Geo. H. Lee has been a poultry raiser for 25 years and invented appliances he couldn't buy. The same mechanical means that he perfected are used by successful poultrymen everywhere. Lee's "Chicken Talk" is a book written by him. Valuable. Free copy, and 1916 Incubator, Brooder and Poultry Supply Catalog mailed postpaid. Ask for it to-day.

Geo. H. Lee Co., 1173 Harney St., Omaha, Neb.

Hatch Chickens By Steam

Make the hatching of your 1916 chicks sure and easy. Stahl's Excelsior or Wooden Hen Incubators are not experiments. They are so sure that a fertile egg means a live, healthy chick. You get real incubator value in either machine. Equip early, and grow and market your early-hatched broilers when prices are high. Early money is the biggest. Write to-day for free catalog.



Write to-day for free catalog. GEO. H. STAHL, Box 7 W. Quincy, Ill.

Victor Incubators and Brooders

Quality tells in the hatches. Right principles, right materials, right building, right ventilation, right regulation, means more chicks and greater profit. Victor quality costs but little more and the difference on one or two hatches more than pays it. Write us first. Our book "About Incubators" will be sent free. It has important information for incubator buyers. GEO. E. TEL CO., 171 Kentucky St., Quincy, Ill.

THIS 120-EGG HATCHER \$7.50

SAFE SURE FREIGHT PREPAID BIGGEST value of the year. Get new low, delivered prices on all sizes of famous Ideal Incubators. Metal-covered all round, self-regulating and ventilating. Safest and surest. Delivered free east of Missouri River and north of Tennessee. Write for delivered prices to points beyond. Lowest prices on Brooders, too. Send for free book today. J. W. MILLER CO., Box 305, FREEPORT, ILL.

EVERY POULTRY RAISER should read the valuable new book, by R. R. Root, "The Truth About the Moisture Problem"

It gives the reason for the excessive "drying" of eggs under artificial incubation. It tells how to hatch big—strong—healthy chicks—that grow and thrive. Tells why so many eggs fail to hatch. This book, together with a booklet on "Artificial Incubation and Brooding," sent postpaid for 25c (coin or stamps). THE ROOT INCUBATOR CO., Box 26 CLEVELAND, OHIO

SHOEMAKER'S BOOK ON POULTRY

and Almanac for 1916 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickdom. You need it. Only 15c. C. C. SHOEMAKER, Box 679, Freeport, Ill.

43 Lending Varieties of pure bred Chickens, Ducks, Geese, Turkeys; also Holstein cattle. Prize winning stock. Oldest and largest poultry farm in the northwest. Stock, eggs and incubators at low prices. Send 4 cents for catalog. L. A. & H. BERG, Box 13 Mankato, Minn.

POULTRY

This department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

Noodle-Fattened Geese

By Frank G. Swoboda

Stuffing geese is an industry in which the Badger state occupies the premier position and yet how vague the impression the term makes on the mind of the majority of people. To the slightly initiated shades of the Wisconsin Humane society and the well meaning last legislature in their kindly sympathy for the supposedly poor abused goose crowd to the fore.

With Watertown, Wis., as its center, this industry, of which very little is generally known is carried on in a community scarcely twenty miles in diameter yet so famous has this section become for its product that the dealers who supply the trade turn regularly to Watertown for their supplies.

The stuffing is not the cruel process that a member of the recent legislature tried to forestall in a bill, which, if passed, would have made its continuance illegal. While the food is in a measure forced down the goose's throat, the fowl though fed often, is not given more than it can assimilate—a principle of economy in feeding that every farmer or stock raiser will concede.

From 2,500 to 3,000 geese are stuffed each year in the territory contiguous to Watertown. The nearby towns of Ironia, Pipeville, Hubbleton, Naven, Concord, Farmington and Sullivan claim most of the shippers in practically every case Germans of the first or second generation in America.

The industry was started about two decades ago by German farmers living a few miles out of Watertown who had seen it carried on in the mother country. Their success led others to take it up and so it grew.

Because of the shortness of the time of shipping, generally three and never more than four weeks, and that too at a time when other farm work is not rushing the industry is carried on as a side issue by all the farmers. All have good-sized farms, carry on diversified farming and make the goose, without occupying the center of the stage, contribute as a mortgage lifter or a padder of the family bank account.

The industry I have said is not large. A leading commission merchant at Watertown, estimating on first hand information, figures that 2,500 to 3,000 stuffed geese are marketed each year. With an average weight varying from twenty to twenty-five pounds it can readily be computed that the annual output is well within the 100,000-pound limit.

The market price it can safely be said is established and remains practically the same one year with another. The average weight per goose of a farmer's consignment fixes the price he gets. For example, A brings a bunch of fifty geese to market averaging twenty-two pounds, he gets twenty-two cents a pound for the lot. B brings in a lot averaging twenty-six pounds, his price is twenty-six cents. As high as twenty-eight cents has been paid to farmers, but as can be inferred the geese were of exceptional weight.

The market for the geese is country wide, New York City leading, Louisville, Philadelphia, Chicago, San Francisco and other cities taking a portion of the limited output. The principle consumers are the wealthy Jewish people. Strange though it may seem, the liver is the portion of the stuffed goose most desired. This during the final stages of the stuffing attains unusual size, heaping up a dinner plate and weighing three and one-half to five pounds. It is made into a dish greatly relished by the connoisseurs. The fat, and it can readily be inferred that there is a generous amount of

this, is very rich. It is used in baking and often serves as a substitute for butter. The skin, especially prepared, is another delicacy. The breast is often smoked and this is greatly relished. Sold on the market or in the delicatessen store it brings forty to fifty cents a pound.

The geese are raised as any other geese produced for the market—hatched early as possible, and in this the breeder has little choice for he must wait until the old goose decides to lay. The young are kept in a thrifty, growthy condition. They thrive best where they have continual access to a body of water, a small stream, pond or lake. Fed on grains and corn they attain a weight of fifteen to twenty pounds about Thanksgiving time or a little before the date when the stuffing is begun. They are then confined to dry, clean comfortable quarters, ten to fifteen in a flock, eight to twelve or fourteen square feet being figured per goose. Naturally a little shy when placed in new surroundings, great care is exercised in handling the geese at this time. Only regular attendants are, or should be allowed in the pens. Every precaution is taken to make the geese feel at ease. The stuffing is begun gradually, the geese being fed a limited amount three times a day for the first few days. After the third or fourth day the amount is increased also the number of times of feeding until the eighth or tenth day when they are fed at intervals of four hours and all they will assimilate.

The noodle is the fattening element. In size and shape it is very much like a pork sausage. It consists of the following ingredients in the proportions named: Ground oats or barley, sifted two parts, ground corn sifted one part, wheat flour one part. These substances are well mixed and enough hot water is added to make a fairly stiff dough. This is then rolled into the noodles, from one to one and a quarter inches in diameter and two and a half to three inches in length, with smoothly rounded ends. Where a large number of geese are stuffed, the process of molding by hand is a slow one. Many of the leading stuffers use a sausage stuffer for the purpose, a second person standing by with a sheep shear to clip off the noodles to the proper length. Noodles so clipped must have their ends rounded that they may glide smoothly down the throat of the goose. This is done by placing them on a table and rolling slightly under the fingers pressing the ends with thumb and little finger to produce the desired taper.

At this point there is a slight difference in the method of procedure. Some feeders place the noodles in pans and bake, while others who have a large number of geese, boil them in a wash-boiler much as mother makes doughnuts or fried-cakes. To prevent burning in the latter case a simple device is used. It consists of a false boiler made of heavy screen, the kind used in making ash-sifters being about the right mesh. It is little smaller than the regular boiler, so that it may be slipped down inside the latter and to within about two inches of the bottom of the same.

The raw noodles are placed into this false boiler and lowered into the regular boiler, the water in which has in the meantime been brought to a boil. They are kept in this until done when they will rise to the surface like a well-mannered doughnut in hot lard.

The false boiler with its contents is then lifted out and plunged into a tub of cold water, this to prevent the noodles sticking together. When thus prepared the noodles can be heaped into

a basket or tub without fear of their sticking together, getting rough and so being spoiled for feeding. Armed with the freshly-made noodles at the rate of six to eight per goose, when the shipping is at its height the feeder makes for the pens.

To facilitate feeding there is in each pen a small subpen 3x5 feet, or thereabouts, open at one end. Into this the geese are driven, the feeder shutting off exit with the little bench or stool on which he sits while at work. With his basket of noodles and a pail of water handy by, all is in readiness for the feast. Goose number one comes or is brought forward. If it chances to be a good feeder it will grab the first few noodles out of the feeder's hand and gulp them down without assistance. Subsequently the efforts of the man on the bench are brought into play. A noodle is taken from the basket, stuck into the water to make it slippery and then while the bill of the receiving goose is held open with the fingers of one hand the nourishing noodle is stuffed in with the other, being followed by the forefinger of the latter until well on its way down the throat. As soon as it has had its fill of noodles the goose will make for the water trough. This is an important feature of the stuffing pen. Clean, fresh water is always kept on hand in a trough on one side of the pen, high enough from the floor to avoid contamination from the litter and droppings of the pen. The same proceedings as just enumerated are gone through with goose number two and all the other geese in the pen. Filled up, the geese are left to themselves until the next feeding period when the performance is repeated.

In this stuffing process it is extremely important that the feeder keep a close watch of each goose. It frequently happens that a goose has not digested all the noodles in the between time and so must have its allowance reduced. Occasionally the noodles will become stuck together in the crop interfering with digestion. Sometimes too, a goose gets off feed, when it may become necessary to skip a feeding. To insure safest results some feeders believe in reducing the allowance for a few days after the geese have been on full feed for a number of days gradually bringing them back to full feed again. This will help keep them from becoming "stale" before the end of the stuffing process.

Care of the Poultry House.

To the Editor of The Homestead:
The other day I went over to see

\$7.55 Buys Best 140-Egg Incubator

Freight Prepaid Double cases all over; best copper tank; nursery; self-regulating. Best 14-chick hot-water Brooder, \$4.50. Ordered together, \$11.50. Satisfaction guaranteed. No machines at any price are better. Write for book today or send price and save waiting. Belle City Incubator Co., Box 52 Racine, Wis.

125 Egg Incubator and Brooder \$10

If ordered together we send both for \$10. Freight paid east of Rock-les. Hot water, copper tanks, double walls, double glass doors. Free catalog describes them. Wisconsin Incubator Co., Box 105, Racine, Wis.

Try Mine FREE

I still have a number of my fine QUEEN Incubators to put out on trial. Drop me a line. I'll send you my new Incubator Book for you to pick out the size you want. I want to show you the incubator that outshines them all and that's so well made. I prepay the freight and guarantee it for 5 years. Write once. Queen Incubator Co., Box 10, Lincoln, Neb.

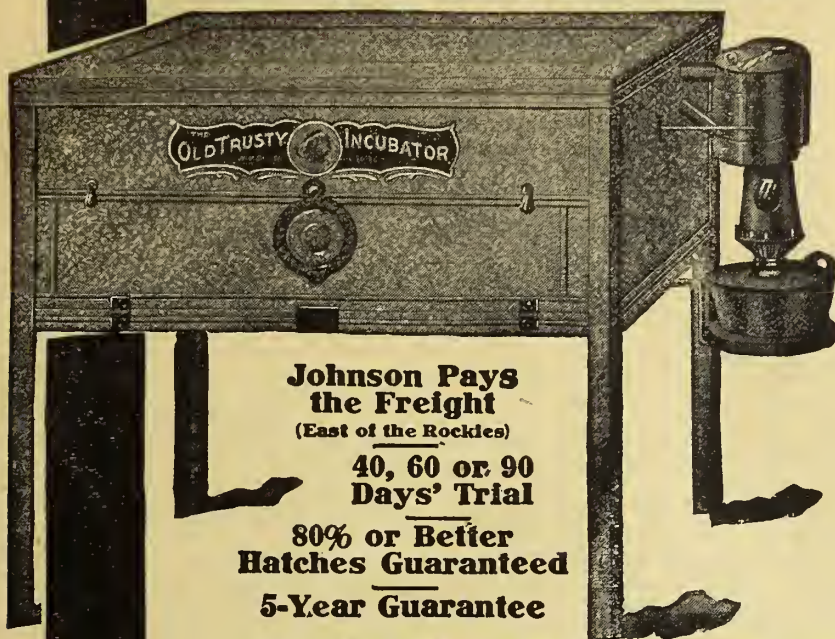
Poultry Supplies

As we are the largest as well as the oldest dealers in poultry supplies west of the Mississippi River we can offer many items of interest to poultry breeders. We also handle thoroughbred poultry and EGGS FOR HATCHING. Don't fail to send for a copy of our new illustrated price list. Complete catalog of seeds, plants, etc., also free if you mention this paper. Write at once. Iowa Seed Co., Dept 1 Des Moines, Ia.

50 Best Paying Varieties

Pure-Bred Chickens, Ducks, Geese, Turkeys, Eggs, Dogs and Incubators. All at low prices. Send 4c for my Book which gives reliable information worth many dollars to you. W. A. WEBER, Box 306 Mankato, Minn.

I Want to Tell You About My 1910 Old Trusty Incubator



Johnson Pays the Freight
(East of the Rockies)
40, 60 or 90 Days' Trial
80% or Better Hatches Guaranteed
5-Year Guarantee

I WANT to tell you about my own 8% profit and my 80% better hatches guaranteed to you. It will take this whole page to do it, but I was never much of a hand to half do a job, whether making incubators, writing catalogs, poultry lectures, or saying it in an advertisement.

Other Incubator Chaps may not like my whole-page advertisements, and I even suspicion that they don't like my OLD TRUSTY Incubator, but you know it's mighty hard to please them and my own customers at the same time. Years ago, "before I knew better," I advertised in most everything from an almanac to an encyclopedia with small advertisements. Now, I prefer to use bigger space and confine it to a few of the very best publications. While the old way was a broad-cast, fine-shot, expensive proposition, I now spend less money and get better results. Now you have it.

When I Made only 500 Incubators annually, I had to make 100% profit. As I made more and more of them I could get along with less profit. Now, since I have passed the 50,000 mark, I have it down to 8% profit. To explain to you how I can work on such a close margin as 8%, let me say to you that my incidental expenses were nearly the same when I made 5,000 incubators annually as now, when I make over 50,000 annually.

When I Made 5,000 Annually, I had to have the same number of foremen and under-foremen as now; had to operate about the same number of steam boilers, engines and machines. My office expenses and advertising expenses were about the same. My insurance and other incidental expenses were also about the same. If I were selling incubators at the same price when I made 5,000 as I do now, I would have went to the wall. I had to make a big profit then, and did make a big profit; but, today, I am working on a very small profit, and yet I make money.

Making Over 50,000 Annually. Clay Center, Nebraska, is a small town; 1,500 population. I own my factory and all equipment. I have 10 acres of factory and office grounds that cost me less money than a single lot in a city would cost. I have my own electric light and heating plants; I have no rents to pay and my taxes are moderate; I am not a corporation; I do not have to make dividends on watered stock — no figure-head officers on big salaries.

From the reasons above enumerated, you can see how I can make the very best incubator at a low price.

The heating system in the OLD TRUSTY Incubator is made of pure sheet copper; the case is made of the finest California Redwood, it is covered with pure sheet asbestos and again covered with handsome sheet metal; even the legs are made of angle heavy metal; not a particle of wood exposed, absolutely safe under all conditions and circumstances. The direct-acting, automatic heat governor (regulator) on the OLD TRUSTY is my own invention and my own patent. There are many imitations, but they are just imitations. I attach, connect and adjust the regulator and ship the incubator ready for business—each and every incubator tested before shipping.

I put the OLD TRUSTY Incubator on the market seven years ago. Everyone of them are in good condition today. Not a dollar's expense for repairs—they are as good as new. The guarantee was then for 5 years. On my 1910 Model, I am making a 10-year guarantee.

Among 50,000 Customers, my 1909 metal-covered incubator averaged above 80% or better hatches. For my 1910 Model, I am guaranteeing it—it is making good even now in the winter time. It is simple and sensible in construction. When guaranteeing results, I do not ask how much experience you have had, because previous experience is not necessary—it does the same good work for the novice or expert.

I have a lot of customers among the subscribers of this paper. The OLD TRUSTY family has 150,000 members. I want to reach the 200,000 mark this year. Am making prices to assure it. Mention this paper when you write.

The OLD TRUSTY Incubator Catalog. I call it a catalog and it is a catalog; but, if you don't call it a better poultry book than others that are called poultry books and sold for a price, I will refund your postage and pay you for your bother. Then, I have found out some things about poultry-raising in 35 years' experience that I put into my annual poultry lectures for my customers. I don't quit customers as soon as I get their money; instead, I keep in touch with them, year after year. If what I have learned and do hear as I go along will help them any, they get it through my lectures. Just send to

THE FARMERS MAIL AND BREEZE, TOPEKA, KANSAS.

Incubator Contest Awards.

FIRST TO KANSAS.

FIRST PRIZE, cash price of her incubator to Mrs. H. M. Perry, Ames, Kan. Set 110 eggs May 6; tested out 1, May 16; hatched 109 live chicks May 26. Per cent, 99 1-11.

SECOND PRIZE, 42-piece dinner set, to Mrs. Eugene Pacetti, Brandon, Fla. Set 90 eggs April 14; tested out, none; hatched 89 live chicks May 6. Per cent, 98 8-9.

THIRD PRIZE, pair of Nottingham curtains, to F. M. Sizemore, R. R. 1, Steward, Ill. Set 150 eggs March 20; tested out 3; hatched 147 live chicks. Per cent, 98 3.

PERHAPS the biggest hatching contest with incubators that ever happened was the one in which the poultry raisers of Farmers Mail and Breeze took part from January 1 to May 30 of this year. There were about 800 participants. It was one of the most successful poultry contests of which we have heard and its lessons and results will be of far reaching benefit to the participants and others. Mrs. H. M. Perry, Ames, Kan., winner of first prize in as noted above, Mail and Breeze Incubator Contest, percentage of 99 1-11, bringing off a hatch of 109 chicks from a setting of 110 eggs. Mrs. Eugene Pacetti made a percentage of 98 8-9 with a hatch of 89, from a setting of 90 eggs. F. M. Sizemore, an Illinois contestant, wins third prize with a percentage of 98, hatching 147 of 150 eggs. These were nearly perfect hatches.

Percentages were carefully worked out for all reports and the prize winners made affidavits to their reports, so there was a fair field and no favors for the contestants.

Mrs. Perry's Method. Mrs. Perry, winner of first prize, was asked to describe her method of managing her incubator. She writes: "I set my incubator in the cellar and turned the eggs once every day, twice every other day, and aired them from 10 to 20 minutes till the 18th day. I keep the heat from 102 to 103 till the 10th day. After the 10th day from 103 to 104. After the 18th day we open the incubator only when we have to watch the thermometer and to remove the chicks."

R. R. 1, Ames, Kan.

The Farmers' Mail and Breeze, published at Topeka, Kas., is one of the biggest and most reliable farm papers in the West. 125,000 subscribers in the richest agricultural section of the Southwest. The accompanying clipping was taken from their November 21, 1909, issue. I tore the clipping out and had this cut made from it.

There must have been every known make of incubator in the contest, some costing twice as much as the OLD TRUSTY Incubator, yet when the final check-up was made the OLD TRUSTY won first, second and third premiums—won all the premiums in a contest of 800.

The Farmers' Mail and Breeze did not know or care about the make of incubator, and I did not know such a contest was on. After it was all over my attention was called to it, and I looked the names of the winners up on my order books and found that all three were my customers. I wrote each of them and found that they had won with the metal-covered OLD TRUSTY.

The OLD TRUSTY has been winning contests with other incubators all over the country. Every mail brings good news; but, on account of the great number in the Farmers' Mail and Breeze contest, I am particularly proud of this one instance. I am particularly proud for another reason. This contest was among the farmers and their wives—the people who raise 90 per cent of the poultry in this country. M. M. JOHNSON.

Read Here How My OLD TRUSTYS Won 1st 2nd and 3rd Prizes

M. M. JOHNSON
Clay Center
Neb.

Johnson's "OLD TRUSTY" INCUBATORS

HOW TO MAKE MONEY
With Incubators and Brooders

Every Page a Poultry Sermon

- Egg Farms
- Winter Eggs
- Broiler Raising
- Poultry Foods
- Lice Killers
- Poultry Lectures
- Poultry Fanciers
- Poultry Farms
- Turkey Raising
- Geese and Ducks
- Egg Records
- Incubator Tables

By M. M. JOHNSON, Clay Center, Neb.

The above book is free to all that are interested in incubators. If you can think of a couple of names and addresses of others who might be interested, please put their names on coupon. I will send them advertising matter and Book, Free.

Tear This Out and Mail To Johnson Today

M. M. Johnson, Clay Center, Neb.

Here's my name and two friends. Send along your Old Trusty Book and Prices—Free.

My name.....

My address.....

1st Neighbor's name.....

Address.....

2nd Neighbor's name.....

Address.....

Catalog Free

my neighbor's flock of chickens. While there I asked to see the poultry house. When the lady opened the door, my eyes beheld a dead chicken on the floor half covered with the droppings. It had no doubt laid there for many days. The house had not been cleaned for weeks, and of course, the flock of hens was not very healthy. I spoke about the necessity of cleanliness, and the lady remarked that her husband just would not attend to the chickens properly. The fact was, I think, her husband expected her to look after the flock and she put the responsibility on him, consequently the neglect.

I believe it is essential that one of the family be charged with the responsibility of caring for the chickens whether it be father, mother, son or daughter. What is everybody's business is nobody's business may be an old adage, but it is a true one when it comes to caring for the chickens.

In the first place, I want to say that there can be no very healthy stock without cleanliness. The poultry house should be kept clean at all costs, even if it becomes a daily task. Any dead fowl should be removed at once and not left to decay or to contaminate the rest of the fowls with the disease from which it died. The dead fowl should be buried deep enough in field or lot so that it will not be dug up by dog or hog. The roosts should be removed and sprayed with a kerosene emulsion every month. This will rid them of all mites and unhealthy microbes.

It is a good plan to whitewash walls and ceilings two or three times each year. Air-slaked lime and coal ashes may be sprinkled beneath roosts to the health of the flock. In the winter it is a good plan to cover floor with litter and change it every week.

Subscriber.

Advising a Beginner in Poultry Raising.

To the Editor of The Homestead:

The other day I was at the home of a farmer who is a breeder of fancy poultry. While there a young man of the neighborhood came to ask advice of the farmer regarding the poultry business. I sat in silence and listened with interest and pleasure to the questions propounded and the answers given. Here I give as near as I can remember the interview.

"Does much depend on the location of the poultry house?" was the first question propounded.

The farmer smiled, then replied: "Most certainly, almost as much as on the kind of a house you build. I consider a lot sloping gradually to south or east so that it will be well drained is the most suitable location for a house. A low, flat place will become damp and is therefore unhealthy for poultry. If the soil is sandy and lot contains a number of trees or bushes for shade in the hot summer, so much the better. Be sure to see that poultry house is not beneath the shade of a tree."

"Tell me something about the kind of a house the beginner should build," the young man requested when the farmer paused.

"I like the colony house," came the quick response. "I think a few hens are more profitable than a large number in one pen. They will be healthier, lay more eggs, and are easier handled. I built a house that will hold from ten to fifteen hens or a breeding pen of twelve females and one male. The house is twelve feet long, seven wide and seven feet high in front and four or five feet at the rear. If I put in a floor, I cover it with dirt or straw. The hens seem to do better. Two windows are placed in the house, one in the south and the other in the east. This gives the hens sunshine all the day long when confined to the house as is necessary on extreme cold days. The house faces south, and the material out of which it is built is governed by the prices of lumber. The roosts are placed in the west end of the house away from all drafts. The roost platform is two and one-half feet above floor and is three feet wide. I generally cover the platform with a coat of hot tar after it is done. I put in two parallel roosts on same level, one foot apart

and one foot from end of house and the same distance from front edge of platform. The nests are placed at the east end of the building."

"How many hens do you put with one cockerel?"

"From ten to fifteen," was the reply, "but a person must be governed by circumstances in this matter."

"Just one more question and I am done," remarked the young man. "Would you recommend an incubator?"

"By all means. If your business grows, and you do well you will be compelled to have an incubator and maybe several. The incubator is essential when keeping the Leghorns, for they are non-setters. So you had just as well make up your mind to invest in an incubator on the start. You can make more than enough the first year to pay for it. It will set at any time, won't leave its place of duty, or give you trouble when attending it. And here let me remark, never get a 'cheap-john.' It will pay you to buy a good machine on the start, for that is what you will eventually be compelled to do if you reach any degree of success. Send to all the houses you see advertised in the farm journals for their catalogs, then after studying them thoroughly select the incubator that you believe will give you the greatest satisfaction."

"I thank you for your good advice," replied the young man, "and I'm sure that I will profit thereby. When I start my poultry business, I shall invite you out to see what I'm doing."

With this the young man took his departure and the interview closed.

A Subscriber.

Selecting an Incubator.

To the Editor of The Homestead:

While a poultryman might make a success of the chicken business without the use of an incubator, he would have to be a hustler to do it. In order to have extra early chicks for broilers and for fall laying stock, they must be gotten out at the earliest possible date in the spring of the year. This cannot always be done with hens alone, for probably when one is longing for the biddys to become broody they go on laying just the same. And if they do set, one loses the time of the layers and they are generally the earliest layers in the pen. But the incubator never refuses to set, is always doing business in the same place and the same old way. It never eats the eggs or turns out a brood of lice-covered chickens.

After realizing the value of the incubator, the poultryman must choose one. What is the best incubator on the market today? This question is hard to answer. There are many good and reliable makes, any of which will accomplish what the makers claim for them if the eggs are all right. After all it is more in the man who operates the incubator than in the incubator itself. I believe it is a wise idea for a person to send for catalogs and study the different points in the incubators advertised, then select the best he can get for the money he has to invest. Never buy an incubator just because it is cheap. A more expensive one might be the cheaper in the long run.

I believe it is best to purchase a two-hundred-egg machine. You can count on a 60 per cent hatch, and this will give you one hundred and twenty chicks at a time. Of course, fewer eggs can be placed in the incubator if desired. A two-hundred-egg machine takes but little more oil and no more time to attend it. Should the hatch fail, the loss will not be so great as if the incubator were larger.

W. D. Neale.

Earth for Chicks.

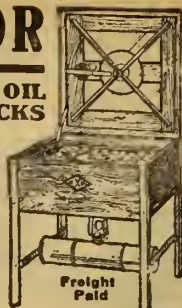
To the Editor of The Homestead:

I have read with interest the article on "Earth Floors for Chicks" by C. E. Matteson, and wish to add my experience and views on earth for brooder chicks.

Chicks from one week old and up must be allowed liberty on earth floors, not only for exercise, but for the earth they eat. I have seen drooping brooder chicks that had every possible thing to eat in the way of vegetable, animal and mineral matter, gorge themselves on fresh earth, and

X-RAY INCUBATOR

ONE GALLON OF OIL
HATCHES 100 CHICKS



HERE is the only incubator that's different from all other incubators—the only one that's not a follower of 25-year-old ideas. The X-Ray has the lamp underneath the egg chamber and right in the middle, where it belongs. The heat is even all over the chamber. The double glass doors are placed, not on the side where fumes cannot rise when doors are opened, but on top where ventilation is perfect. Thermometer always in sight. Eggs need not be removed during entire hatch.

Save Two-thirds of Your Oil

We control the flame and burn the lamp just as high or low as wanted. That's why we use one gallon of oil while other incubators use 3 to 5 gallons for a hatch. We waste no heat and no oil. We guarantee one gallon of oil to hatch 100 chicks. We fill the lamp just once for the hatch and save time, attention, heat and expense. Most incubators take 8 hours to heat up. The X-Ray heats to hatching point in 15 minutes. No heat loss; no continued turning heat on and off to cause changes of temperature; no oil waste. Enameled-steel-covered; rosewood finish.

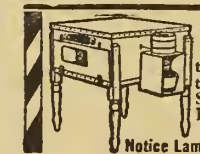
WRITE FOR FREE BOOK to tell you all. Then try an X-Ray 3 Hatches. Our guarantee fully protects you if not as represented. The machine for best results. Write today to X-RAY INCUBATOR CO., 18th Street, Wayne, Nebraska

RAYO 2 COST OF HATCH

BUILT ON UP-TO-DATE
SCIENTIFIC PRINCIPLES

A DOZEN NEW IMPROVEMENTS

Central double heating system gives equal radiation. One gallon of oil—one filling of lamp for entire hatch. Eggs turned without removing tray. Double glass top gives full view of hatching process. Strongest Guarantee—70 days trial. If not satisfied return and money refunded. We pay the freight. Before you buy an incubator investigate the RAYO. Write for FREE BOOK. THE RAYO INCUBATOR CO., Blair, Nebraska.



IF NOT, WHY NOT?

Let me help you in the Poultry Business. Get a Poultry Leader Incubator and Brooder, then you will be sure to hatch and raise chickens. Metal Encased—Safe and Sure—Prices are Lower—85 Per Cent Better Hatches. It's time for you to hurry. Free book ready. Send your name quick. Freight Paid. Notice Lamp. Box 17. EMIL OCHSNER, Sutton, Neb.



Inoculation New to Chickendom

"OCULUM," a scientific treatment. Cures and renders fowls immune forever to Cholera, White Diarrhea, Roup. Deaths reduced 80%. Successful as vaccination. Doubles egg yield. \$1 inoculates 400 fowls, 600 chicks. Guaranteed. HANCOCK INOCULATUM CO., Inc., Box C, SALEM, VIRGINIA.

recover. A setting hen closely confined during incubation, with all manner of things to eat, will relish a few mouthfuls of earth, and yet Mr. Matteson says there is no virtue in their eating it.

Mr. Matteson also says fowls do not have kidneys. Perhaps that is not the proper name, but the dark mass of cells in the fowl's backbone answers the same purpose. I have killed a number of brooder chicks that were as fat as squabs and their legs so wobbly they could not walk, and I always found these cells in the back affected. These chicks had opportunity to take plenty of exercise, but were overfed. Their digestion was all right or they would not have been so fat. They had plenty of fresh air, but lacked the elements that toughen and harden the constitution. They were like many other fat bipeds—they liked plenty of good things to eat and failed to take the necessary exercise to help carry off the waste matter.

Chickens are not the only animals that eat earth. The stall-fed horse or cow will, if given the chance, eat earth as a child will candy. I have had two weeks' old brooder chicks that knew the difference between grain and grit, gorge themselves on sand until the intestinal tract, gizzard and crop were packed full of sand. From appearances you would think the chicks were afflicted with diarrhea. I believe there is something abnormal about incubator chicks that causes them to differ in many ways from hen hatched and brooded chicks. Hereafter my breeders are to be hatched and brooded in the good old way. Last year my fall chicks were hatched and brooded artificially and, though they grew well, yet I lost them all before spring. This year the hens hatched and raised the fall chicks and I never saw a healthier or more growthy lot. The incubators and brooders are all right for market fowls, but not for breeding stock.

Mrs. F. W. McIntyre.
Montgomery county, Iowa.

THE X-RAY INCUBATOR.

Are incubators all alike? The X-Ray Incubator Company, of Wayne, Neb., object seriously to people saying that all incubators are alike. They want to send their catalog to every person who has this opinion and advise us that our readers will be startled at the differences between the X-Ray and

Send Us a Postal for Our Price

Just your name and address on a postal brings book and low price on

Racine Incubators and Brooders guaranteed to hatch highest percent of eggs, liberal trial plan, all improvements worth having. Best incubator proposition ever offered. Write today. RACINE HATCHER COMPANY Box 135, Racine, Wis.

those of other makes. The manufacturers of this incubator are practical poultry people and have worked out a practical machine that has made a great record. They claim that they have the only really new thing in incubators in twenty-five years. It contains many new features. For instance, they put the lamp under the machine instead of at the side. They put it right square in the middle and bring the heat up through the center of the egg chamber. Other incubator makers said that would cook the eggs. But it doesn't cook the eggs. Instead, there is a wonderfully even, thoroughly controlled heat. The catalog explains many other features wherein the company believe their incubator superior to any other on the market. This catalog is sent free to all who will address the Wayne Incubator Company, 18th St., Wayne, Neb. See advertisement on this page.

PRICE VS. QUALITY IN INCUBATORS.

The quality of an incubator counts first of all. The price, if not high, is a secondary consideration. However, no one refuses a chance to save \$15 or even \$10 on an incubator providing the quality is there. The Belle City Incubator Company, Box 52, Racine, Wis., have an incubator of high quality at the price of \$7.55, freight prepaid. This is for the 140-egg size. They have a booklet which they will send to our readers which proves the real hatching qualities of their machines. See advertisement on page 34 of this issue.

Mr. Geo. H. Lee, of Omaha, Neb., a man who has done much for poultry raisers, started in the business at a tender age. When a small boy he bought a dozen Plymouth Rocks and added some Buff Leghorns. His father being in the hardware business made it somewhat easier for his son to have a little workshop of his own. The whole poultry proposition opened itself before him. Poultry raising appealed to him and his mechanical turn of mind combined to help him enter the broad fields that it has proven to be. Mr. Lee experimented, persevered and succeeded in developing his flock and means of handling, but at no time did he lose sight of the probable possibilities of incubators and brooders, but in the beginning of just how he actively entered the making of them as told by Mr. Lee is most interesting: "A business woman here in Omaha started a poultry farm in one of our suburbs, purchasing some incubators and brooders manufactured in the East," says Mr. Lee. "During her first season she hatched a good many thousand chicks and lost them practically all in the brooders. I think, if I remember right, that she had about a hundred left in the fall. She came to me and said, 'Mr. Lee, if I cannot get a brooder that will raise the chicks I will have to quit handling poultry. Can you not give me a brooder that will

really take the place of the mother hen? I told her that I would try and I immediately set to work on brooder problems, working throughout the day and oftentimes through more than half of the night. I constructed a great many different kinds of brooders, finding objections here and there until I settled upon a design which seemed to be satisfactory. I immediately gave this brooder to the lady above mentioned for her to try at the farm. She put in a batch of chicks and at the end of a couple of weeks was quite surprised that she still had all of the chicks, having lost none of them. She immediately wanted us to make some more of these brooders for her and this led to the development of our incubator business, which now amounts to a good many thousands of machines each year. Mr. Lee has written a booklet entitled "Lee's Chicken Talk." This will be sent free to our readers who address the Geo. H. Lee Company, 1173 Harney St., Omaha, Neb. See advertisement on page 34.

If I Were Starting to Raise Fancy Fowls.

To the Editor of The Homestead:

I would be very careful in purchasing the stock from which I was to breed. I would want to be positively certain that the breeding stock and its ancestors were entirely free from contagious and constitutional diseases. I would purchase stock from a breed whose reputation was thoroughly established. If not, I would ask the firm for testimonials from their customers regarding their stock and their reliability. I would rather know the breeder personally, and if I had an opportunity I would certainly examine his stock personally.

If I wanted eggs instead of fowls, I would demand that the flock from which they came be free from diseases of all kinds and from as many imperfections as possible. I would be certain to ask that he give me inside information regarding his method of handling his eggs before and when shipping. I would also make a study of the best plans of beginning the business. I would take a number of journals that would give me special information on the subject. If there were any books on the subject that I could get hold of, I would certainly read them. I believe an exhaustive study of the Philo System would be helpful. I would also make a study of the different diseases that attack fowls, and being able to treat them properly, I would no doubt be more successful with fancy fowls. W. D. Neale.

Killing Lice.

To the Editor of The Homestead:

In looking over the Poultry Department of your paper, I find several remedies for killing lice and mites, but have found by experience that they must be used over and over again, and then do not entirely destroy them. Two years ago I used the following remedy, which requires but one application, and have seen no mites or lice on my flock since:

One gallon of coal tar, two ounces of corrosive sublimate and one pint of turpentine; dissolve the corrosive sublimate in the turpentine and let stand for several days, shaking often; then mix it thoroughly with the coal



SPECIAL WORD to Homestead Folks

Don't kill the hen that lays the golden eggs. Keep your hens busy laying and let the Fairfield hatch your chicks for you. It will do it better, easier and cheaper. I will guarantee it.

Did you ever try to watch thirty setting hens at one time? If you did you know you have got a job on your hands. Now my Number 1, 100-egg capacity Fairfield will raise more chicks for you in one season than thirty setting hens. It never leaves the nest. It don't take any more time or trouble to watch than one hen.

Do you want strong, healthy chicks ready for next winter's market?

Then buy a Fairfield early this year and put it to work. It will earn you a lot of money by fall. Remember, folks, I make a lot of strong claims about my Fairfield incubator. You can't buy a better machine anywhere. Then I just say to you, try it for yourself—Two hatches free. It's got to please you and make you money or I don't want you to keep it.

Yours truly,

Sam Thompson.



3 Sizes 100, 150 200 Egg Sold Direct From Factory To You

The New Fairfield

The "World's Best Hatcher." Freight Prepaid on a 2-Hatch FREE TRIAL

SAM THOMPSON SAYS

I Want to Send My 1910 FREE Incubator Book and Special Offer to All The Homestead Readers.

I just want to tell you how you can make a lot more money out of your chickens this year than ever before. My new illustrated 1910 Incubator Book is chock full of chicken-raising facts. It's worth 50c to \$1.00 of anybody's money and I will send it to you free any time you say so. I want to tell you all about my new 1910 Fairfield Incubator and Brooder. My customers call the Fairfield the World's Best Hatcher. That's what their experience has proven it to be. I claim it's the best Incubator on the market.

Then I say to you, don't take my word for it. Be your own judge. Just send for the Fairfield and try it in your own home—two hatches free with the money in your pocket if you wish. That's the best proof I can offer you that the Fairfield will do all and more than I claim for it. It must make good in your poultry business or I don't want you to keep it. Isn't that fair? Get my catalog telling all about it.

About My Incubators

The Fairfield is well made from start to finish. Always has been and always will be. We use Calif. Redwood in our construction. Its patented steam and water circulating heating system guarantees the biggest hatches of healthiest chicks ever raised in an incubator. Our double disk regulator works perfectly. No better lamp in any incubator. Large, roomy nursery and egg chamber. Double doors. Unobstructed top. An incubator without a rival. That is what my Fairfield is.

My 2-Hatch Free Trial

I have a lot of confidence in my Incubator being just the machine you want. If I didn't I would never make you this sort of an offer. I will ship you, freight prepaid, a Fairfield Incubator and Brooder and let you try them in your home, two full hatches free, entirely at my risk. It's got to please you or of course you won't keep it. If it don't please you ship it back and I will pay the freight. Now take me up on this offer before you think of buying anybody else's Incubator or Brooder. I will treat you square.

About My Brooders

You want a good Brooder to go hand in hand with your Incubator. Now I claim the Fairfield to be a good all round common sense Brooder. It's a hot air, overhead heater with plenty of room. I make them in three sizes, 100, 150 and 200 chick capacity. They are self regulated and will keep your chicks comfortable until large enough to take care of themselves. My Brooders are sold on the same plan and guarantee as my incubators. Let me ship you one along with your incubator.

I Pay the Freight

Thompson pays the freight on his Incubator to your town. I don't care where you live, my prices to you will include the freight paid to your station. You can't take any risk when you buy one of my machines. I pay the freight to start with and if they don't please you I will pay the freight back and give your money back if you have paid me any in advance. Now that's Thompson's way of doing business. He ships his incubator out on the strictly "make good" plan, you to be judge. There couldn't be a fairer offer than this.

Cut Out This Free Coupon And Send To Me Today

I want to send you my 1910 catalog free. I want you to know all about the Fairfield Incubators and Brooders and my new plan of selling them on a 2-hatch free trial. All you have got to do to get this book which contains a lot of chicken-raising facts in it is to fill in, cut out and mail this free coupon to me today. I will send my catalog to you by return mail. I am going to send you at the same time the greatest proposition ever made by an incubator manufacturer. I have a straight business proposition to make you that will help you get your incubator partly or entirely free. It's a proposition I know that you will want to accept because there's money in it for you. Sit down right now while you are thinking about it and just write me a postal or letter telling me the size Incubator you want or just say "Send me your new catalog" and you will get them by return mail. Address

SAM THOMPSON, Pres. Nebraska Incubator Company 127 Main St., Fairfield, Neb.

Free Book Coupon!

To Sam Thompson 127 Main Street, Fairfield, Nebraska.

Please send me your new 1910 Free Incubator Book and Special Offer, telling me how I can get my machine partly or entirely free, by return mail.

Name.....

Town.....

State..... R. F. D. No.....

Try This Morecorn Sorter FREE

We say it's the greatest machine of its kind on the market. It will sort your seed corn in 4 sizes and enables you to plant to drop 3 kernels to a hill 95 times out of 100. This means an even, healthy stand, large, early crop. We want you to try a Morecorn Sorter. We'll send you one on trial. Examine it, test it, grade your seed corn. If it is not satisfactory, the slickest you ever saw, send it back. That's fair and square.



Will Increase Your Corn Yield 5 to 15 Bu. Per Acre

This is not guess work but actual facts, which thousands of farmers will verify. So you will after you have tried it. The cost of a Morecorn Sorter is so small, the profit from it so great that you can't afford to be without it. Investigate now. Address.

Monarch Self Feeder Co., Dept. 25, Cedar Falls, Iowa.

tar. Take a paint brush and apply over all roosts, floors and walls, if they are of wood, anywhere where mites would gather. One application is all I found necessary. This also makes a wood preserver better than paint. Try it and you won't always have to be cleaning for mites.

Subscriber.

AN HONEST GERMAN.

Out in Sutton, Neb., about 100 miles west of Lincoln, lives a German. His wide-open countenance and one minute's talk with him would at once convince you that he is of that sturdy, honest type of man. He is a hard-working man, spending all his time from early morning till late at night in a prosperous and well-equipped incubator and brooder factory. Mr. Emil Ochsner, for that is his name, feels more at home in a factory of this kind than in any other place, because he is thoroughly enthusiastic over the incubator business. He is not satisfied to make machines of the same old type, but has several new devices, among which a very special feature of the egg tray and an arrangement of the lamp, rendering it impossible to upset it. Equally honest as the man is the product he makes. The Poultry Leader incubators and brooders are not so well known as some other makes, except to those using them. From these he has some of the most enthusiastic letters the writer has ever read. This honest German makes honest incubators and brooders and sells that at an honest price. His catalog, published in both English and German, describes in an honest way the special features of his machines and contains much other information valuable to poultry raisers. Write Mr. Emil Ochsner, Sutton, Neb., for his catalog, which he sends free to those readers of The Homestead mentioning this paper. Be sure to write him today if you want honest goods. See his advertisement on page 36 of this issue.

POINTERS.

—Mr. I. C. Welch, of Bedford, Iowa, is advertising S. C. R. I. Red cockerels on page 38. He writes his stock is in thrifty con-

dition and of a good dark red color. They are raised from prize-winning stock. Orders for eggs booked any time for future delivery.

—Buff Plymouth Rock cockerels are offered for sale by Mr. C. F. Smith, of Griswold, Iowa, in his advertisement on page 38.

—Mr. John M. Hall, of Blairburg, Iowa, has a few Single Comb Brown Leghorn cockerels for sale. His advertisement appears on page 38.

—Mr. and Mrs. H. E. Clark, of Dallas Center, Iowa, can supply Homestead readers with White Holland turkey toms that are extra choice ones at prices named in the advertisement on page 38.

—Mrs. J. C. Forsythe, of Griswold, Iowa, is advertising White Plymouth Rocks for sale on page 38. She has both scored and un-scored stock, some birds scoring as high as 96 1/4 points. She will also have eggs for sale in season.

—Barred Plymouth Rock cockerels, well barred, large and of good shape, and choice Single Comb White Leghorn cockerels are advertised for sale by Mr. M. E. Birchard, of Hazleton, Iowa, in his advertisement appearing on page 38.

—On page 38 Mr. W. C. Bradley, Bussey, Iowa, announces he has for sale Buff Plymouth Rock cockerels and pullets. These are of excellent quality and at the Iowa State Poultry Show in 1909 won club ribbons for color and shape on both cockerels and pullets. Note the prices in the advertisement.

—Mrs. Grant Davidson, of Scranton, Iowa, breeds Buff Wyandotte chickens as advertised on page 38 and is now offering some very fine cockerels for sale. She advises us that this year's crop are extra good ones, with fine color and stylish carriage. They will be sold at quite reasonable prices, for which address Mrs. Grant Davidson, R. F. D. 5, Scranton, Iowa.

—Mr. C. G. Good, of Ogden, Iowa, breeder of Plymouth Rock chickens, advertises on page 38 that he is now ready to offer his supply of cockerels for sale. A representative of The Homestead saw these birds a short time since and is glad to assure readers that they are just as good as represented, having size and quality with splendid mark-

AUTOMOBILE CHEAP

5-passenger Rambler Touring Car for sale cheap—last year's model in the best of condition—fully equipped, fitted with best tires. Paid \$1,500 for the car, will sell for \$900 cash. Investigate at once if you want a real bargain. Call or write for information to GEO. E. KING, 607 East Walnut St., Des Moines, Iowa.

ings. They will be sold at prices which make them well worth the money.

—Mr. A. L. Sanders, of Perry, Iowa, is booking orders for eggs from Rose Comb Rhode Island Reds. He has an announcement on page 38 of The Homestead.

—The advertisement of Mr. M. Finken-hagen, of Ellsworth, Iowa, quoting prices on eggs from popular and leading strains of Single Comb Rhode Island Reds, will be found on page 38 of The Homestead.

—Mr. O. H. Stillson, of Corwith, Iowa, has a fine lot of Black Langshan cockerels and pullets which he is offering for sale to Homestead readers at reasonable prices. Mr. Stillson has bred Black Langshans exclusively for fifteen years and he wants those who wish stock from him to write quick, as he expects to be able to dispose of all his surplus stock in a short time. His advertisement appears on page 38.

—Messrs. F. L. Reinhard & Son, of Ottumwa, Iowa, in furnishing copy for advertisement on page 38, write: "Our Single Comb Rhode Island Red cockerels are real reds, the kind that are stylish and have that shape and finish that are sought after. Will furnish score cards from Judge W. S. Russell. We have no pullets to offer for sale. Will mate two special pens for the coming season from birds scoring 92 to 93 1/4 at \$3 per fifteen for eggs."

—The Sunny Slope Poultry Yards, at Os-kaloosa, Iowa, Mr. C. D. Gamble, proprietor, can furnish eggs from Single Comb White Leghorns, scoring as high as 95 points, at very moderate prices, as stated in the advertisement that appears on page 38. Mr. Gamble also will be able to supply eggs in incubator lots at a very reasonable price per 100. A few sittings of Single Comb Rhode

Island Reds, of the Bennett strain, will also be offered for sale.

—On this page may be found the advertisement of Mrs. Chas. Gutches, of Floyd, Iowa. She writes that she has bred from the best scored stock the past four years and some of her birds this year are direct from the Cook Farm. Her pen of Houdans is headed by a prize winner and eggs will be sold at reasonable prices.

—Mr. C. W. Kellogg, of Knierim, Iowa, is offering eggs for sale from Single Comb Rhode Island Reds from high-scoring stock, in his advertisement on this page. He has two pens mated: the cocks of which were judged by Mr. W. K. Shanklin and they scored 93 and 94½ points. The pullets of these pens were laying at seven months. He will fill all orders promptly and will guarantee satisfaction.

—Mr. Samuel Locke, of Selma, Iowa, advertises Mammoth Bronze turkeys on this page. In his letter ordering the advertisement he says: "The turkeys I am offering for sale are from prize winners. The tom weighs forty pounds, scores 93½, and was sired by a fifty-pound tom. I have shipped to a dozen different states and have no complaint. I have some fine young toms for sale. I will also sell the yearling."

—In writing concerning the stock he is offering for sale in his advertisement on this page of this paper Mr. Le Roy Cottew, of Alta, Iowa, says: "I still have a very nice lot of Rose Comb Brown Leghorn and White Wyandotte cockerels to sell among them are some of my very best birds. Readers of The Homestead who are in need of good cockerels of these two breeds should write for prices without fail, as they must be sold soon."

SCORED BARRED ROCK COCKERELS.

Mrs. J. M. Stewart, of Ainsworth, Iowa, is offering some excellent Barred Rock cockerels that will suit discriminating buyers. These cockerels have been scored by Mr. Shellabarger and are high-scoring birds. Nothing but the very best cockerels have been reserved for the season's trade and these are being priced reasonably. Homestead readers in need of nicely-marked cockerels with distinct and even barring, heavy bone and the right type should write Mrs. Stewart for prices as per the advertisement on this page of The Homestead.

DOGS.

COLLIE PUPPIES From our imported studs and bitches. Write for our catalog and photos, giving full description. Hundreds of testimonials. Our Collies work, pairs no akin furnished; prices to suit. We ship to all parts of the United States and guarantee safe delivery. **UNDERHILL KENNELS, Knoxville, Iowa.**

SCOTCH COLLIE PUPPIES For sale. \$5 to \$8. Very best breeding; will make fine workers. Write us your wants. **T. A. Stevenson, Shanon City, Iowa.**

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS, Cumming, Iowa.**

WYANDOTTES.

MY GREAT LAYING STRAIN WHITE WYANDOTTES

Very fine Cockerels, Cocks, Hens and Pullets for sale. I can mate up pens and trios to please. I have been in this business for years and can please you if quality is desired. Write me at once, stating just what you want. Let me book your egg order now and have shipment made later. Eggs from a beautiful farm-range flock \$1.25 per 15, \$6 per 105. Also Scotch terriers, the world's greatest raters, from puppies to grown dogs for sale.

S. Harr, Riverside, Iowa.

I Have the Best White Wyandottes I ever raised, now ready for sale. \$10 trio a specialty. Quality stock. **J. M. Erleison, Slater, Iowa.**

WYANDOTTES White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. A. L. Anderson, Indianola, Ia.

White Wyandotte Cockerels and cocks, scored and unscored, \$1.25 up. Write your wants. **RINNEBROS., NOBLE, IOWA.**

Buff Wyandotte Cockerels, bred from show yard strains, for sale. Also a few pullets. **Geo. M. Deyoe, Mason City, Ia.**

Silver Laced Wyandotte cockerels for sale; Larger and better than ever. Write today. **S. R. Young, Greenville, Iowa.**

Buff Wyandottes I have a few good cockerels for sale. Address **Mrs. Grant Davidson, R. 5, Scranton, Iowa.**

ORPINGTONS.

S. C. Buff Old Black Orpingtons, best strains. Cockerels, \$2 and \$3 each. Pullets, \$1.50 and \$2. Eggs, \$2 and \$3 per 15; utility, \$6.50 per hundred. **E. B. Conable, Box A, Independence, Ia.**

Single Comb Buff Orpington cockerels and pullets. Eggs in season. Eggs from fine Houdans reasonable. **Mrs. Chas. Gutches, Floyd, Ia.**

S. C. Buff Orpingtons, both sexes; choice stock from \$1 up. Also a few good cocks. Address **Nettie Crane, Route 1, Blencoe, Iowa.**

COCHINS.

Buff Cochins Exclusively 50 large-framed, shapely, even-colored, well-feathered cockerels at \$2 to \$5. Write **W. W. Vaughn, Marion, Iowa.**

PARTRIDGE Cochins, 12 fine hens at \$2.50 singly, \$7 per trio or \$25 per dozen; one cock, \$3; 2 cock- \$3 each. **Mrs. Floyd Collins, Viola, Iowa.**

LEGHORNS.

Rose Comb Brown LEGHORNS

COCKERELS for sale at the Pike Timber Stock Farm as follows: Single bird \$2, two or more \$1.50 each, six for \$1 each. Address **T. A. DAVENPORT - BELMOND, IOWA.**

There Is Money In Eggs

S. C. W. Leghorns. Get the laying kind. Hen flock \$5, averaged over 15 dozen eggs each, 1909. Cockerels, all prices. Write for prices and show record. **Mury Culver, Route 1, King City, Missouri.**

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. From prize-winning and high-scoring stock. Cockerels or hens, \$1.50 each, 6 for \$7.50, \$15 per dozen. Eggs, 100, \$4; 200, \$7.50, 12 years with this breed. **R. R. STEWART, R. 2, Charles City, Iowa.**

SPECIAL EGG STRAINS

FARM raised, thoroughbred R. and S. C. White Leghorn ckls.; selected, fine, big, vigorous birds. Pair, \$3.50; 3, \$5. **Chas. G. Jackson, Prescott, Iowa.**

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5, 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. **Sunny Slope Poultry Yards, Oskaloosa, Iowa.**

PURE-BRED Rose Comb Brown Leghorn ckls. \$1.50 each or five or more at \$1 each. **Carey R. Jones, Route 6, Eldora, Iowa.**

ROSE COMB Brown Leghorn cockerels for sale, high-scoring, \$1.25 each. After January 15, 1910, \$1.50. Address **Eva D. Tutt, Alta, Iowa.**

FIFTY ROSE COMB BROWN LEGHORN COCKERELS \$1.25 each; very choice. **J. A. Albertus, Portsmouth, Ia.**

For Sale Rose Comb Brown Leghorn cockerels, 242 strain, price \$1.50 each; 4 for \$5. Address **J. E. Treloar, 1617 W. 9th St., Des Moines, Ia.**

Cockerels for sale—R. and S. C. White Leghorns and Black Langshans; single birds \$1.25, 6 for \$1 each. **Joseph Kappes, Jr., Ashton, Iowa.**

S. C. W. Leghorn cockerels \$2 and \$3.50 each. Eggs \$1.50 for 15; \$6 for 100. **Chas. J. Mackey, Box 523, West Liberty, Iowa.**

For Sale—S. C. W. Leghorn Cockerels \$1 each. **C. L. McCrear, R. 6, Newton, Iowa.**

SINGLE COMB White Leghorn cockerels; large and white. I have show room score cards for a part of these birds. **J. W. Hopson, Bedford, Iowa.**

Very Choice R. C. Brown Leghorn ckls., \$1.25 each. Lots of 4 or more, \$1 each. Pure bred. **Mrs. Nelson Hyde, Manson, Iowa.**

RHODE ISLAND REDS.

50 Cockerels

At your own prices. Imported Hartz Mountain Canaries. Send stamp for egg catalog and special offer. We do not compete with breeders of utility stock nor with fake advertisers. Single Comb Rhode Island Reds a specialty. **Mrs. F. W. McIntyre, R. 5, Red Oak, Ia.**

S. C. Rhode Island Reds

TOMPKINS STRAIN

Write for descriptive circular.

P. H. Thiel, Reawick, Humboldt Co., Iowa.

S. C. R. I. REDS

BRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. **M. Finkenhausen, Ellsworth, Ia.**

EGGS From choice mating; Rose Comb R. I. Reds; great laying strain; best of stock. Address **A. L. Saunders, Perry, Iowa.**

EXTRA Big-boned Rose Comb Rhode Island Red cockerels, \$1 and \$2. Prize winners; score to 93. **Osterfoss Poultry Farm, Hedrick, Iowa.**

35 S. C. R. I. Red cockerels; extra large and deep red; \$1.50 to \$2 each. Eggs in season. Address **I. C. Welch, Bedford, Iowa.**

R. C. R. I. Reds Cherry Red strain, scored and unscored. Cockerels for sale. Prices right. **Harry C. Blake, Maquoketa, Ia.**

S. C. Rhode Island Reds A choice lot of scored birds for sale; eggs in season. **Leo Nichols, R. 4, Woodward, Ia.**

Rose Comb Rhode Island Reds. A choice lot of cockerels scored by Todd, for sale. **D. E. Witmer, Polk City, Iowa.**

S. C. R. I. Red Cockerels For Sale \$2 to \$5. **Mrs. H. L. Alsop, Sylvia, Iowa.**

S. C. R. I. Red cockerels; fine birds, from \$2 up to \$5. A few R. C. R. I. Red cockerels at a bargain. **Mrs. Sophia Rader, Laurel, Iowa.**

100 R. C. Rhode Island Red cockerels, \$1 each. Eggs in season. Address **Mrs. T. A. Gough, Bristol, Iowa.**

S. C. Rhode Island Red cockerels that are real Reds. Score cards by Russell. Address **F. L. Reinhard & Son, Ottumwa, Iowa.**

S. C. R. I. Red eggs from high scoring stock, that are proven winter layers; perfect type and color; \$1 per 15; \$3 per 100. **C. W. Kellogg, Knierim, Iowa.**

LANGSHANS.

BLACK LANGSHANS

BRED exclusively for fifteen years. A fine lot of both cockerels and pullets for sale at reasonable prices. Let me know your wants quick, as they will be scarce soon. **O. H. Sillson, Corwith, Iowa.**

BLACK LANGSHANS OF BOTH SEXES For sale, from high-scoring, prize-winning stock. Address **Surah F. McKeen, Sac City, Iowa.**

BLACK Langshan ckls. for sale; scored and unscored birds; scores ranging from 92½ to 94½. Write for prices. **H. M. McKeen, Sac City, Iowa.**

DUCKS.

Muscovy Ducks For Sale

\$3 a pair. **Mrs. T. W. Glass, R. 5, Sac City, Iowa.**

PLYMOUTH ROCKS.

219 Egg Strain B. P. Rocks

AND these birds are Blue Ribbon winners. I have a few cockerels and females for sale, from \$1.50 to \$5 each. Address **W. A. HARTMAN, Box 242, Winterset, Iowa.**



BARRED ROCKS and ROSE COMB WHITE LEGHORNS

BARRED ROCKS scoring from 88 to 92. If you want good birds at low prices write us. Score cards furnished. **Mrs. F. W. Hann, Harlan, Ia.**

Scored BARRED ROCK

COCKERELS OF THE BEST OF BREEDING. Scored by Shellabarger. **MRS. J. M. STEWART, AINSWORTH, IOWA.**

Quality Strain Barred Rocks Have been line bred for ten years from foremost prize-winners in America. Bennett's famous flock has been added as per "Notice of Sale" elsewhere. Cocks, hens, cockerels and pullets, both matings for sale at right prices. **C. C. Drake & Son, Drawer Y, La Harpe, Illinois.**

BARRED PLYMOUTH ROCK COCKERELS

LARGE size and extra heavy bone, with that deep blue, clear barring, not brassy, sired by high-scoring cockerels from hens and pullets weighing from 7½ to 11 lbs. Price \$2 to \$4 each. Write your wants to **M. A. Easthouse, Hartley, O'Brien Co., Ia.**

400 B. P. Rocks For Sale. Cocks, cockerels, hens and pullets. Prize-winners, egg producers; large, vigorous, nicely marked. None better. 15 years a breeder. Mated exhibition and breeding pens a specialty. Prices reasonable. Bargains for quick buyers. **C. H. Tyrrell, Sioux Rapids, Iowa.**

GUTH'S WHITE ROCKS

Winners at the Iowa State Show. Choice cockerels at \$2 each. **Chas. Guth, E. 15th St. and Logan Ave., Des Moines, Ia.**

White P. Rocks For sale; scored and unscored chickens, scoring as high as 96½ points. Unscored cockerels for \$1.50 and \$2; scored ones, \$2 to \$7; one for \$10. Eggs in season. **Mrs. J. C. Forsythe, R. 5, Griswold, Iowa.**

BARRED ROCKS

75 Large-boned, nicely-barred cockerels, from prize-winning stock, for sale. 15 years a breeder. **Mrs. T. C. Churchill, R. 1, Monroe, Iowa.**

White Rock Cockerels, \$2 to \$5 Each Pullets, \$1 to \$3. Mann's green bone cutter and egg incubator cheap. **F. H. Eckert, Charter Oak, Ia.**

Buff P. Rocks Cockerels and pullets, scored. Anyone wanting breeders, \$2 to \$5. Eggs from my high-scoring birds, \$5 per setting of 15. Address **W. C. Bradley, Bussey, Iowa.**

CHOICE Utility B. P. Rock cockerels; large, good shape, well barred and will please you. Also some very choice S. C. W. Leghorn cockerels. **M. E. BIRCHARD, HAZLETON, IOWA.**

150 Bradley and Thompson B. P. Rocks COCKERELS AND PULLETS. **Henry Schlatter & Sons, Lawler, Iowa.**

BARRED Rock cockerels, bred from carefully selected matings; vigorous, fine, even barring; extra care taken in selecting ckls. to suit customers; from \$2 up. **Chas. McCaskey, Route 2, Ogden, Iowa.**

BARRED ROCK COCKERELS Scored and unscored. Also a few M. B. toms for \$5 each. **Mrs. J. A. Campbell, R. 5, Manning, Iowa.**

Smith's Buff Rocks. Have a few scored cockerels for sale. Will close out right. Eggs in season. **C. F. Smith, Route 5, Griswold, Iowa.**

Buff and Barred Rocks 85 large, fine cockerels, extra heavy-boned, scoring 88 to 94½; farm raised. **E. C. Rice, Gray, Iowa.**

SCORED M. B. turkeys; toms, \$5 up; pullets, \$3 up. From high-scoring stock. White Rock cockerels. **Sterling Martin, Melrose, Iowa.**

BARRED Rock cockerels, Bradley strain, cockerel mating. Choice stock for sale, from 90½ to 91½ point birds. **H. B. Simpson, Albany, Illinois.**

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of choice quality. Address **Mrs. M. C. Thompson, Route 2, Atlantic, Ia.**

400 B. Plymouth Rocks for sale; large boned; nicely marked. Nothing but first-class stock shipped; prices reasonable. **J. W. Wagner, Monroe, Ia.**

18 B. P. Rock cockerels; strong, vigorous birds, with great size and quality, and narrow, deep barring. Some show birds. **C. G. Good, Ogden, Ia.**

TURKEYS.

MAMMOTH Bronze turkeys, from prize-winning stock at the State Poultry Show of 1909 at Fairfield, Ia. Choice birds at reasonable prices. 1st prize yearling tom for sale. **Geo. E. McGrew, R. 1, Selma, Ia.**

WHITE Holland turkey toms, extra choice ones, \$5; smaller ones, \$4; order from this advertisement. Mr. and Mrs. H. E. Clark, R. 3, Dallas Center, Ia.

White Holland Turkey toms, extra choice birds. Prices reasonable. Write **Mrs. J. S. Benage, R. 1, Hazel Run, Minn.**

50 White Holland Turkey toms, extra choice birds. Prices reasonable. Address **Mrs. H. A. Sexsmith, Greenfield, Ia.**

For Sale M. B. turkeys. Have bred them fifteen years; size, markings and a square deal our motto. **Mrs. Harry Davidson, Adrian, Mo.**

Mammoth Bronze Turkeys Best of stock. Prices reasonable. Address **Mrs. H. Drew, Greenfield, Ia.**

Mammoth Bronze Turkeys Choice young toms, \$7; hens, \$4. **J. Nissen, Meservey, Cerro Gordo Co., Iowa.**

BRAHMAS.

Light Brahma Cockerels

ONE to five dollars each. I have a fine lot of them, no pullets for sale. Eggs in season. Address **FRANK P. HEALY, BEDFORD, IOWA.**

Ottumwa POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. **R. T. Cameron, Ottumwa, Ia.**

MISCELLANEOUS.

Square Deal Poultry Farm

E. H. Bodley, Prop., Newton, Iowa. At Iowa State Poultry Show we won 4 firsts, 2 seconds, 1 third. Send for catalog of S. C. R. I. Reds, B. P. Rocks, M. B. turkeys, Toulouse geese. Cockerels, \$2 up. A few extra good trios, \$10.

COCKERELS AND PULLETS

FINE, large, early hatched breeders; farm range stock; Barred P. Rock, White P. Rock, Buff P. Rock and Single Comb Brown Leghorn. Circular free if you mention this paper. **C. E. MATTESON, Pewaukee, Wisconsin.**

MAMMOTH BRONZE TURKEYS AND PEKIN DUCKS

From Prize-Winning Stock for Sale. **George M. Grimstead, Mitchellville, Iowa.**

IOWA Kingstrain Mammoth Bronze turkeys; grand in size, shape, bone and golden bronze. Young toms weigh 20 to 30 lbs.; pullets above standard wt.; sired by prize winners of extra large size; can ship trios and pens not akin. 200 B. Rock ckls., 8 to 11 lbs.; big, husky fellows; grand in shape, markings. Send for prices and show record. **G. Gallaher, Spencer, Ia.**

WANTED TO BUY

THOROUGHBRED Leghorns, White and Brown, hens and pullets, and a few cockerels. Also R. I. Reds, Orpingtons, Red Caps, Cornish Indian Game, Hamburgs, Indian Runner ducks; other varieties. **Dean Swift Poultry Co., Des Moines, Ia.**

FOR SALE—Mammoth Toulouse geese, Barred Plymouth cockerels, White Cochins Bantams, Pearl Guinea. Enclose stamp for description and price list. Breeding stock prize winners. Address at once, **J. O. Walton, Belle Plaine, Iowa.**

White H. Turkeys Barred, white; P. Rocks, and Indian R. ducks, Toulouse geese. Stock and eggs for sale. We won 110 prizes and four silver cups the past year. **W. M. Shaw & Co., Monroe, Iowa.**

Barred Rock Cockerels, \$1 to \$1.50, according to weight. S. C. Brown Leghorn cockerels and pullets, \$1 each. Scored males of both breeds, \$2. **Geo. F. Blake, Maquoketa, Iowa.**

48 Breeds chickens, ducks, geese, turkeys. Fowls, eggs, and incubators at low prices. America's greatest poultry farm. Send 4c for fine 80-page 16th Annual Poultry Book. **R. F. Neuber, Box 807, Mankato, Minn.**

ROUEN DUCKS For sale. Show birds or good breeding stock. Good B. P. Rock cockerels; large-boned, nicely-barred. Prices reasonable. **J. H. Howarth, Moulton, Iowa.**

Mammoth Bronze Turkeys

and Silver Laced Wyandotte cockerels. **Mrs. D. C. MOISEBERRY, Plymouth, Iowa.**

RED CAPS AND HAMBURG CKLS. For sale, from high-scoring birds. Price \$2 each. **WOLFE & JUNGEL, TITONKA, IOWA.**

BUFF COCHIN B. P. Rock cockerels, and White Holland toms, sired by a 35 lb. tom, and Pekin ducks. For good birds at a low price address **Mrs. J. E. Baxter, Walnut Grove, Minn.**

25 Barred Plymouth Rock cockerels, leading strains. Also some choice hens. 35 Toulouse geese, best of stock. Address **Mrs. James Cockerton, Whiting, Iowa.**

MAMMOTH Bronze turkeys. Large, heavy-boned birds. Some B. Langshan cockerels; also W. Wyandottes. **Mrs. A. Kitson, R. 2, Audubon, Iowa.**

For Sale S. C. Br. cockerels, \$1 each. Rhode Island Red cockerels, \$1 and \$2 each. Address **John M. Hinh, Blairsburg, Iowa.**

Barred Plymouth Rocks and Golden Wyandottes; 200 for sale. Get your order in early. **J. L. Todd, Route 3, Des Moines, Iowa.**

Choice W. Wyandottes and Mammoth Pekin ducks; McClave strain. **E. S. DYAS, BELLEVUE, IOWA.**

BARGAINS now in all leading varieties of Rhode Island Reds, Orpingtons, Leghorns, Wyandottes and Rocks. **Wm. Koell & Co., Box M, Hampton, Ia.**

BLACK and W. Langshans, Buff Orps., R. C. R. I. Reds, Lt. Brabins, M. B. turkeys, scored or unscored. Prices right. **Mrs. S. E. Newell, R. 6, Audubon, Ia.**

FOR SALE—Some extra fine pure-bred Rose Comb Brown Leghorn and W. Wyandotte cockerels. Write for prices. **LeRoy Cottew, Alta, Iowa.**

WHITE P. ROCK chickens, White Holland turkeys, Pekin ducks and Embden geese. Prices right. **S. M. Compton, R. 3, Newton, Iowa.**

Choice Silver Laced Wyandottes and Pekin ducks; scored; unscored. Prices right. **Mrs. F. R. McLaughlin, Mannlug, Ia.**

Barred Plymouth Rock, White Wyandotte, Houdan cockerels, \$1.50, \$2, \$2.50 each. Hens also. **W. C. Frazier, Atlantic, Cass County, Iowa.**

PRIZE-WINNING Pekin ducks for sale; never have been beaten where shown. Also S. L. W. ckls. **Mrs. Edith Eggabard, R. 1, Grundy City, Ia.**

R. C. Rhode Island Red and R. C. Brown Leghorn cockerels, \$1.25 each. **T. E. DIEHL, BEDFORD, IOWA.**

S. C. B. Leghorns Barred Rock cockerels, Pekin drakes; good stock. \$1 each. Address **Ida Hepp, Audubon, Iowa.**

Buff Rock cockerels, Pekin ducks and Embden geese. Prices reasonable. Eggs in season. **Mrs. Charles Steedman, Lacey, Iowa.**

B. P. Rock ckls., \$1.

DAY BY DAY

AGRICOLA

A Sunday-school man has been counting the laws given by Moses for the observance of mankind and he says there are over six hundred of them, including the ten commandments. We of modern times are inclined to be a law unto ourselves, and outside of the ten commandments pay scant attention to Old Testament laws.

There must have been a reason for all these laws. For instance, it is ordered that the land shall lie idle one year in seven,—it shall have a rest one-seventh of the time. This is the foundation of crop rotation. One year in seven the bacteria were to be allowed to multiply undisturbed—the weeds were to grow and add their humus to the ground.

We can improve upon this now. We have the "tame" grasses and clovers. But our land must rest,—it is just as necessary now as it ever was, but the rest is furnished by a change—by crop rotation, with grass and clover in the rotation—this fulfills the requirements better than idleness and brings returns every year.

Suppose some of our modern statesmen had written our Bible, what a mess they would have made it, and the critics would not have to be very "high" to cast it into oblivion. There are an average of 25,000 proposed bills for enactment into law at every congress,—most of them born of ignorance or selfishness and luckily they generally "die a burning."

But there is the Book of Nature, and from the same source as the Book of Revelation. Experiment stations are constantly writing down the laws of this book—they do not originate them—they study them out and write them down.

And, my brother farmers, the pages of this book are blurred and biotted by us, the laws too often unheeded. He is the best citizen who is in closest harmony with the Bible. He is the best farmer who is in closest harmony with the laws of Nature.

But I am not particularly fond of the goody-goody man who never does a wrong thing, and I question if he is worth more than thirty cents on the dollar as a friend. He does not need you, and you do not need him, for he does not know how to sympathize with you in your struggles. Give me the red-blooded active man who sometimes stumbles like the rest of us, and falls, if fall he must, with his face towards the right.

No feed ration is perfect for cow or horse in which kindness is lacking.

A celebrated handwriting expert says: "Handwriting is a gesture of the mind." Well, some of us are addicted to rather ungraceful gestures. But in signing a check make your mental and muscular gestures with no flourishes. The plainer and more simple the signature the harder for the forger to imitate it.

There is a small city near where this is written, and like many other towns, it has an industrial association. At its last meeting this association tackled what President Taft calls a great civilizing agency, second only to education,—the good roads question, and appropriated a sum of money at once, and planned a vigorous campaign to establish good roads leading into the town. Nothing succeeds like success and nothing encourages others to get down to business in earnest like the well-earned success of others. The rural mail carrier upset three times in one day this week because of snow drifts, and this in his enclosed rig. Unpleasant, to say the least.

Do you wish to do something, my sister, to improve the world? Here is a suggestion: Improved board makes improved boarders.

If your barn door hangs on one hinge it lessens your efficiency as a world reformer.

Fashionable life consists in playing

you are happy. A truly happy life consists in doing something useful and doing it well.

Better rotate the garden crops as well as the field crops. There are but few exceptions to this rule,—the loud smelling onion is one exception.

Do you like your food as fresh as possible? There is a great campaign raging for fresh eggs, fresh milk, and there is a market for fresh calves—veals three days old—but the city cousins who eat the latter do not know this, and the shipping certificates certify something else as to age.

The bewitching single lady has sometimes been accused of tampering with the birth record in the family Bible so as to "lower the record," but the veal merchants reverse this method.

A man without a purpose in life is lacking in manhood, and he becomes either a dude or a tramp, depending upon the location of his bulkiest emptiness.

Strange how history repeats itself. Byron wrote a famous poem asking if you heard "The canon's opening roar." It needed but one more "n" to apply to the present United States congress.

Strict cleanliness would have saved the life of many a young foal. The filth germs gain access to the body by way of the freshly ruptured navel cord. Result—blood poison and a dead colt.

Once Agricola revisited the home of his childhood and found two of his mates—a young man and his bride, had been killed by cabbages. So said the doctor, at least. The cabbages were in the cellar, they decayed and propagated diphtheria germs, the ambitious couple overworked and fell victims to the disease. Keep cellars clean.

The sweet corn canning factories in this country have made another boost in price for 1910 corn. They now offer \$6 per ton for corn in the husk, the farmers being allowed to haul it all back home for feed except the kernels which are shaved off by machinery. This is an advance of \$1 per ton, or 20 per cent, over former prices.

This advance will increase the returns to the farmer about one-fourth of one cent per can, and the consumer will be expected to pay in the neighborhood of three to five cents per can more. Every item of cost in the raw material goes through the multiplication table a few times before reaching the consumer. We cannot charge the factory men with greed, for it is a problem to make the business pay as it is, and as for getting it to the consumer at less cost, that is something the manufacturers have been unable to manage.

A canning factory is a grand thing for a town. It gives employment to so many town people who need the extra pin money just that time of year, when the cold, dreary winter is approaching.

But of all the farm crops, the children are the sweetest and the best. The children's exhibit at our county fair was a blessing and a benediction. Their handiwork was as interesting as the blossoms of spring which foreshadow the harvest in its due season. And as the creator is always greater than the creature, the parade of the children themselves in floats was the sight which stirred the heart to the very center.

I have read of "two way" plows, but have never seen one. It seems they are in the market farther west. Their advantage over the ordinary plow is that they make no ridges and leave no "dead furrows." Going one way the ground is turned to the right, on the return the left hand horse walks in the furrow and the ground is thrown to the left. A whole field is plowed in this way and left as level as a meadow.

Any man or boy who would murder "the first robin" after a winter like this ought to be exiled to the polar regions.

Pull Your Stumps With the ONLY All-Steel Triple-Power

400% Stronger Than Others



Hercules Stump Puller

Sold on 30 Days'

FREE TRIAL

No more excuses for stumpy fields. Try this Hercules Stump Puller on your place for 30 days at our risk. Write NOW for our offer on the only All-Steel Triple-Power Stump Puller made.

Hitch On—The Stump is Bound to Come

The strength is there and the power is there. You may have had trouble with iron pullers, but this Hercules genuine steel puller is a different matter. It has 400% more strength than the best iron puller ever made, and with our triple-power attachment a one-third greater pull is developed. The Hercules is in a class by itself.

It is the only stump puller that is guaranteed for three years. The only stump puller made with double safety ratchets, making them doubly safe. The only stump puller having all bearings and working parts turned, finished and machined, reducing friction, increasing power and making it extremely light running.

Look At This Table

You will see why we have made the Hercules of steel. The table gives the strength per square inch of each different material. Steel is the only material for the Hercules.

Don't Risk Dynamite

It's dangerous and it's costly. Besides, it only shatters the stump and leaves the roots in the ground to grow again. The Hercules pulls roots and all, big stumps and small stumps, good sized green trees, hedgerows, etc. It is the machine for satisfactory work and keeping down the expense. Write us a postal now for free hook and special 30-Day Free Trial Proposition, also low price to first buyers in each locality.

Hercules Manufacturing Co.
441 17th St., Centerville, Iowa

Cast Iron
16500 lbs.

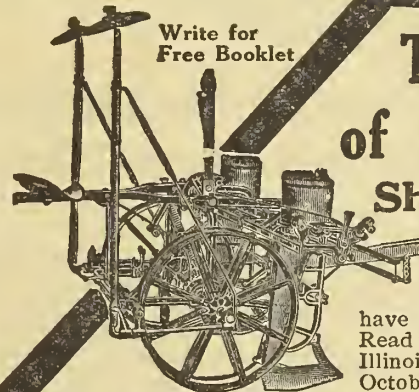
Copper
19000 lbs.

Bronze
36000 lbs.

Malleable Iron
40000 lbs.

Wrought Iron
47000 lbs.

STEEL
120000 LBS.



Write for Free Booklet

The Endorsement of Other Farmers Should Guide You

DON'T buy any implement till you know its record. Don't let the manufacturer experiment on you. Avery Machines are world-famous and have been in successful use for 30 years. Read what Mr. M. S. Van Bount of Urbana, Illinois, writes in his letter to us, dated October 23, 1909.

"I have used an Avery Perfection Planter three seasons, it being the first one in this section. It is very satisfactory, being light draft, good check and well balanced. Double disc markers are just the thing. That letter and hundreds of others just like it, has put the farmer's seal of approval on Avery Machines. We illustrate here the machines endorsed by all who have used them."

AVERY PERFECTION PLANTER AVERY UNIVERSAL CULTIVATOR

Here's a letter from C. K. McClelland, Supt. Ft. Hays Experimental Station, Ft. Hays, Kansas, dated July 30, 1909, about the Avery Universal Cultivator.

"I want to tell you what a pleasure it has been to observe the splendid work of the Universal Cultivator at our station. The new features you have introduced into this successful riding cultivator make it about the best machine of that nature on the station. The man who has been operating it says your claims cannot be disputed. The cultivator is so well balanced, its mechanism so simple of arrangement, and the feature of taking the weight off the horses makes, its working a satisfaction to the operator. The simple, handy levers for regulating the depth, and depth-covering springs are the best ever seen."

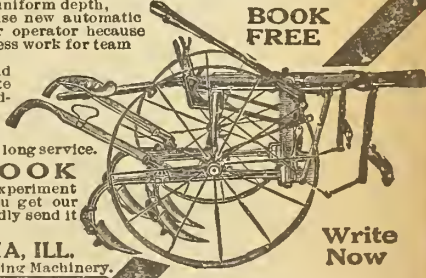
The Avery Perfection Planter insures a more uniform depth, because short-coupled. A more uniform drop because new automatic side cut-off plants the big grains. Less work for operator because planter has automatic self-lift and two markers. Less work for team because lighter draft.

The Avery Universal Cultivator has such splendid features as adjustable arch, balance lever, accurate depth regulators with cushion springs. All this in addition to the features which years ago made Avery Cultivators famous, including double-acting lifting springs, rod fenders, special shaped shovels. Avery has the reputation of "Going In," easy handling and long service.

WRITE FOR FREE BOOK on a Postal—and know what other farmers and Experiment Stations think of Avery Machines. Don't buy till you get our book. It is worth big money to you, but we will gladly send it free and postpaid. Write postal or letter now to

AVERY CO., 169 Iowa Street, PEORIA, ILL.
Makers of Corn Growing, Steam Plowing and Threshing Machinery.

BOOK FREE



Write Now

This Tool Saves Plowing

Four times as rapid as the plow and makes just as good a seed bed. Disc and harrow combined—the great 2-in-1 combination for corn, stubble and fallow grounds. One mile of travel by the team means one acre ready for seed.

Naylor 2-Row Tongueless Disc and Spike Harrow

Discs cultivate and stir, spikes pulverize and level. Once down the field completes a strip 8 feet wide—ready for seed. Discs and spikes can be set at any angle to work deep or shallow. Only front row of discs work in unbroken ground. Write for full description and Special Introductory Offer. Something good for first one writing from each town. Address

THE NAYLOR MANUFACTURING CO.
Box 142, La Grange, Ill.



Dealers Wanted Everywhere

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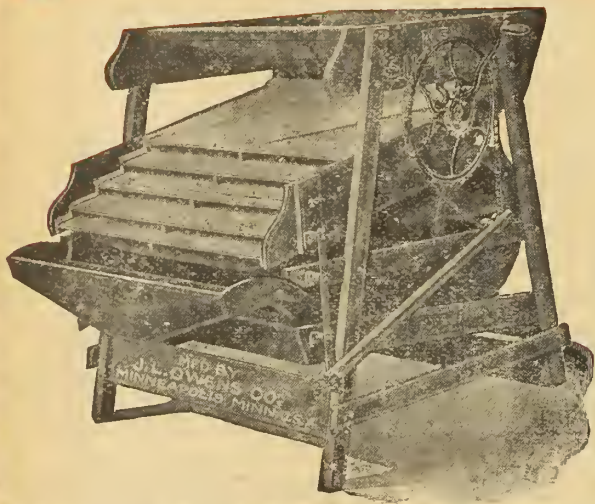
Profitable farming begins with sowing only clean, graded seed; it ends with selling clean, best grade of grain, with the valuable screenings saved for feeding purposes. To

bring this about you must have a Fanning Mill that is dependable, that you know is able to clean your seed of all foul matter, and to grade it, selecting uniform sized, plump, healthy kernels only. Your fanning mill must be able to separate, clean and grade, anything that you grow on the farm, that needs separating, cleaning and grading. In short, you must have an all-around perfect Fanning Mill.

We have decided to make you a proposition, whereby you do not take any chances. You can go to any of our dealers, or write us direct, if no dealer in your town, and get a

NEW SUPERIOR FANNING MILL

GUARANTEED UNDER A THIRTY-DAY FREE TRIAL



If you send us the coupon, we will in addition to the books and prices on the mill, send you our bona fide warranty certificate, which protects you in every way, whether you order the mill from our agent or direct from us.

We have made several important improvements on the New Superior this year. The main improvement is our Double Capacity gang. This ingenious device is fully illustrated and described in our catalog. For all-around perfect work and capacity, you can't find anything, that will even approach the work of the New Superior. If you do not care to purchase an Owens Corn Grader we can furnish you with a Corn Grader Attachment for the New Superior that we guarantee will grade your seed corn better than any other Fanning Mill.

It will pay you to send the coupon. Do it now before you forget.

J. L. OWENS COMPANY

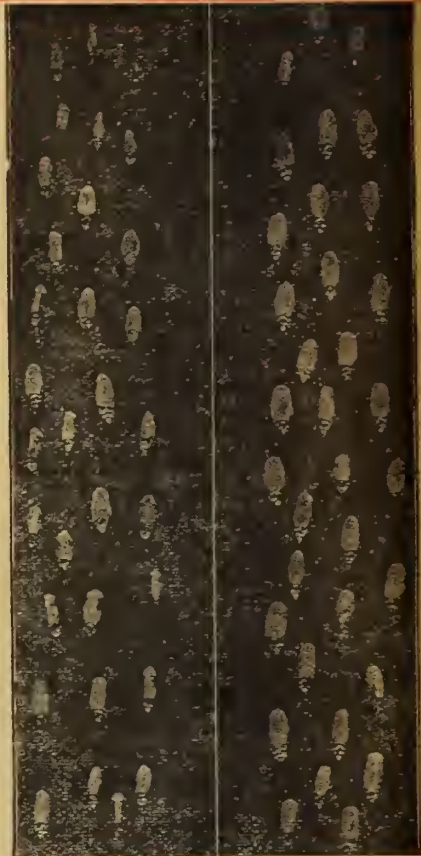


Fig. 1 represents the kernels of wheat taken from one head that grew from a poor, shrunk seed. Fig. 2 the kernels taken from one head that grew from a plump, healthy seed.

The Farmer's New Friend---The Auto

By Henry Hatch

THE horseless carriage is no new thing. Had it not been for an act of the British parliament, years ago the modern auto might have become a plaything for our rich grandfathers and a quick means of transportation for those of moderate means. Over in England a man put together a machine that would propel itself, and members of parliament immediately saw that it might become a menace to the strolling pedestrian and passed an act compelling every carriage not propelled by animals to be preceded by a man on foot to warn all of the coming danger, and to travel at no greater speed than two miles an hour. And thus an infant industry was crushed by the hand of law.

For years, too, another horseless carriage has been jokingly spoken of from far and near. This was and is the carriage pulled by a span of mules. But the real horseless carriage has lately come into popular use. It is the automobile, more recently called, by common consent of all who wish to shorten names, the auto or motor car.

For a considerable time a great deal of prejudice existed against the auto in America, and this prejudice still exists in the minds of many in widely scattered and usually more isolated sections of the country. I can remember when I felt as "mean" towards the auto as anyone ever felt. I thought of it as a machine to scare horses, to run down and run over innocent and unsuspecting travelers and to cut up similar tricks and tragedies along the public highway. I was prejudiced then, all because I was unfamiliar with the auto. I did not stop to consider that it was the reckless driver and not the man-guided machine that was responsible for the accidents. The machine's will is usually the will of the driver's, and if he elects to be decent the machine will be. Almost all auto drivers are now decent, probably because more of the decent folks are now buying autos. If you ask if this new machine is

ever going to become a farm favorite. It is that already in many sections of the corn belt. From a rich man's plaything to a servant of the busy man, the auto has made this evolution in a very short time. Farmers are changing their minds about the auto and the use to which it may be put in their service. Talk has not done this but the auto itself has. The agent and the advertising has had little effect on the mind of the average farmer, except to fix the name of the advertised machines firmly in his memory. The thing that has turned the trick is the actual machine, in actual use on country roads, with an actual farmer at the wheel. We out here in Kansas, they down in Oklahoma, and they over in Missouri, up in Nebraska and across the line in Iowa and over in Illinois have seen machines put to the test—and we have tumbled. At last the self-propelled carriage is a practical success. You ask how I know. I have used one, making trips to town and back, eight miles away, in a fraction of the time it used to take the best team to make the trip one way. It has passed the experimental stage with me, and everyone who has seen the machine in action, under adverse circumstances, says, "I didn't think anyone could do that with an auto."

The auto isn't a machine to be abused. It won't stand any very great amount of it. I do not mean by this that it will not stand rough handling and rough usage, makers are trying to get them fool proof but they can never do that. Fool proof is impossible in any machine, for the man who will dissect, revise and tinker on his own hook can make even a single-shovel plow unfit for further use. It is that way with the auto. If a man buys one and immediately starts in to remodel it he soon has a useless mess of junk on his hands, and very lively the man will blame the auto instead of himself that it is so. Don't do anything unless you know what you are doing, is a pretty good rule to observe when you lay hands on

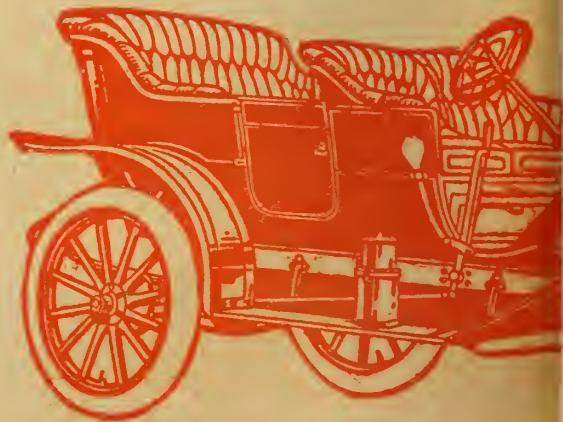
an auto, no less a self binder, a manure spreader or any farm machine.

But how delicate is an auto, and how much practical use and pleasure can a farmer get out of it? Kept between the ditches and driven across every bridge and culvert instead of off the ends, at a moderate speed and not overloaded, the auto will not behave in a manner to cause you to think it a delicate machine. Little or no trouble will probably come from the machine in years, if the oil supply is always sufficient and everything kept tight; the trouble that comes most frequently and most unexpectedly comes from the tires. You may be bowling along in fine shape, overloaded, perhaps, but un-mindful of that, when you hear a report like a muffled pistol. It's a "blow-out." The inner tube "busted" and the outer casing could not stand the shock; putting the matter in another way, the inner tube blew out because the outer casing did not support it sufficiently. What made the outer casing weak? Your overload. Do not overload an auto. You court tire troubles if you do. The last "kid" that squeezes himself in the back seat or the last sack of flour you throw in at the grocery may be the cause of all the tire trouble. But there are protectors made for tires, treads, they are called. Many have run machines equipped with them for three years and never had a puncture or blow-out of a tire. For country use, no auto is complete without tire protectors. It may take a trifle more gasoline to pull them along, but they are trouble preventers and eliminate "skidding" on slippery grades. With them over the tires you can overload with less danger of trouble, but it is best not to do it even if you can.

Last of all, don't get it firmly in your mind that the auto is difficult to learn to run. It steers like a thrashing engine, only, as an Irish friend said, a little "more so." It answers quicker to the slightest turn of the wheel, but—well—you'll soon learn that part of it all right,

along with the other things that read to you as if complicated. Many merchants and professional men in towns and cities buy autos and have trouble with them. This is because they do not understand machinery like the farmer does. They couldn't run a self-binder successfully, probably not as successfully as they run their autos.

There's another thing about the auto that's fading away; the belief that every team that sees one is going to jump over the nearest fence and run. Horses are getting used to them wherever they are,



THE UP-TO-DATE FA

so they can get used to them. As it is, half the horses that are scared when an auto comes along are scared because the driver, by his licking, jerking and unusual yelping, scares them worse than the machine does. Their fright at first is mild, and would soon be quieted, but the driver is scared for fear the horses will be scared and soon all concerned are really and truly scared. When both the drivers of the machine and of the team keep their heads level, any sensible team usually will, even if it is their first

TODAY IN FARMING

FREE 2 VALUABLE BOOKS ON PROFITABLE FARMING

J. L. Owens Co., 614 Superior St., Minneapolis, Minn.

Please send me free of charge your books on Modern Farming, also prices and guarantee on the New Superior Fanning Mill and Owens Corn Grader.

CUT OR TEAR ALONG THIS LINE.

Name.....
P. O.....
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Your seed corn must be graded in order to a perfect stand of corn, it must be graded that your planter can drop accurately and early. "What is worth doing, is worth doing

," applies more forcibly to the grading of seed corn than anything else you can do on the farm to increase your profits. Prof. P. G. Holden, of the Iowa State College of Agriculture, says that a bushel of seed corn should produce 400 bushels of corn worth from \$130 to \$160. At present prices these figures are very low, but taking them as a basis, you can easily figure out how much it is worth to you to get perfect seed, that will yield the best and the most. Remember now, it isn't necessary to pick your seed, it's too slow, therefore too expensive, besides you cannot get the uniformity that an

OWENS SEED CORN GRADER GUARANTEED UNDER A THIRTY-DAY FREE TRIAL

give you. This machine has been designed and built, after careful study of corn conditions, and will select kernels of uniform width and thickness in exactly the same way our Fanning Mill grades wheat as shown in illustrations figures 1 and 2. This is the kind of seed corn that it will pay you to plant, and that we guarantee the Owens Corn Grader to give you.

This is the kind of seed that will enable your planter to drop three kernels to the hill, 98 per cent perfect. Is it worth ten bushels of corn at the present market price to be assured of such seed? Then be sure to cut the coupon today.

SUPER-STREET Minneapolis, Minn.

HOW THE OWENS WORKS

From the hopper the corn is dropped onto the riddle in the upper shoe, where everything larger than the seed proper is taken out and deposited at the rear end of the machine. From the upper shoe the corn is dropped onto the sieve in the lower shoe, where the screening is done thoroughly and accurately. Here everything smaller than the desired size of the seed is removed and the perfectly graded seed corn is deposited in front of the machine.

We equip the machine with a fine and a coarse riddle and a fine and a coarse zinc sieve, this will enable you to grade all varieties of field corn.



ing with an auto. The auto is a mud craft. That is all that can be said against its practical use. When the mud is deep you'll be glad to have it under cover, and yet, if caught too far from home in a rain, by "bandaging" the wheels with ropes, you can pull safely home "low" or "intermediate" gear. You watch your engine a bit, though, not overheat it, just as you would a nervy horse that wants to do it head of a load. Any other time but there is mud the auto is right there

no denying it; the auto has at last been made practical for the practical farmer's use.

High Prices and Scientific Farming.

To the Editor of The Homestead:

We see a great deal in the papers now about the high cost of living. This important subject and its causes has even attracted the attention of congress, but I, of course, do not know how seriously they are contemplating doing anything. It is not necessary to defend the producer—that is the farmer—in any charge of being responsible, as it has been shown time and again that there is a wide margin between what the farmer gets for his products and what we consumers have to pay for products—fruit, vegetables, meat, grains, poultry products, etc. Only recently the writer entered a wholesale house and asked the price of turkeys, and the man in charge quoted them at about 45 per cent less than the retail merchants were asking at the same time. While this subject is being agitated, I believe that the agricultural papers can be of considerable help in bringing about results by publishing facts, statistics, etc., and at the same time create a sentiment towards getting assistance in the establishment of agricultural institutions for the scientific development of farming and for the education of young farmers. The writer was pleased to read an address of Congressman Douglass, of Ohio, before congress on January 4th, when he talked quite at length on this vital subject. He gave this startling information:

"Last year congress appropriated to the army and to the navy and to the military pensions a total of \$385,000,000, or 67½ per cent of our total revenue, and we appropriated to our great department of agriculture \$13,000,000, or about 2 per cent of our revenues. I am not criticizing the wisdom of any item of those appropriations, certainly not that of pen-

sions to our soldiers and sailors, but I do submit that the daily bread and meat of the men and women who toil, of the very soldiers and soldiers' widows and children, dependent upon their little pensions, are at least as important as coast defenses and battleships. So far as it is an appeal, it is to our committee on agriculture, that they demand a greater share of public revenues, to be spent in an earnest, widespread and generous effort to improve conditions so justly alarming, and appeal to this house to see to it that it has some real and potent influence in determining the relative importance of the various objects to which we shall make appropriations, and to demand, if need be, by a struggle all along the line, that enough shall be left when other objects are provided for to inaugurate a new scale of generosity, and true statesmanship, a new crusade against further impoverishment of our soil, against further impairment of our natural resources, against the steady, sad and threatening increase in the price of the necessities of life."

It is disappointing indeed that congress does not champion more the welfare of the agricultural interests. However, it is gratifying to learn that the great railway companies are interesting themselves in this particular branch of commercial development, and in many ways they seem to be better friends to the farmer than the man who is always posing as the farmer's friend—the office holder. At a recent convention of the dry farming congress, Mr. J. J. Hill, of the Great Northern, made a lengthy address in which he made a sincere plea for the farmer's interests and strongly endorsed the mission and establishment of agricultural schools. He said:

"Your agricultural college and that of every other state, is in touch with all the agricultural educational institutions in the world, and everything that they have demonstrated there is beyond question the common property of all. Modern scientific agriculture calls for as high an order of intelligence as any other science. Now, the farmers on the farm have not the time, not the opportunity, and they have not the knowledge to make experi-

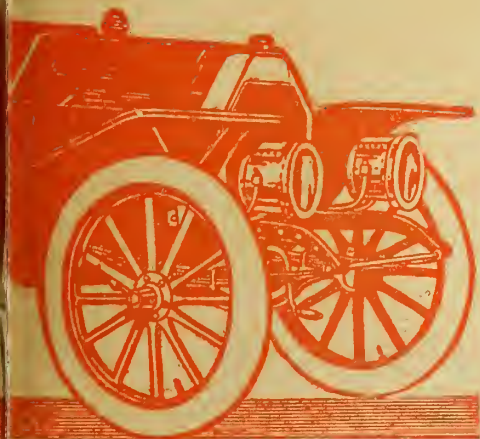
ments. Let your agricultural college make the experiments. Let them analyze your soil; let them know what they need most; what they have lost by years of cultivation; let them adapt the seed to the soil; let them know what is the best season and the best time to plant the different seed, and when and how to divide them so that the farmer will have a crop ripening not all at once, but one following the other so as to give him an opportunity to take care of his crop and take care of his property."

There is no man before the public eye today, who has made a closer and more careful study of economic and commercial conditions than has Mr. Hill, and it is the writer's opinion that there are other railway executives, representing great systems, who are ready to co-operate with the farmers to bring about better conditions, for the transportation companies fully realize that their prosperity depends largely on the prosperity of the farmers. Any feature that improves farming conditions, brings better results to these companies. Mr. Yeakum of the Frisco system, and President Brown of the New York Central lines, have also taken an aggressive stand in the interest of scientific agricultural development. As Mr. Hill expressed himself, "The small farmers are the meat of the future in the West. The railroads are disposed to help you in every possible way." This seems to be putting this proposition frankly and friendly.

It is the writer's opinion that the agricultural press can accomplish a great deal in this line and can get lots of substantial assistance and timely suggestions from the railway officials if an effort is made in that direction.

Illinois. C. E. Cook.

A Kansas newspaper has found a songster who twangs away: "There's a land that is fairer than this, but it doesn't show up on the map. To get to that said fairer land you must first get your wings fixed to flap. Of course, we'll all try to meet there in that land without sorrow or guile; but don't fix the date too blamed soon—old Kansas will do quite a while."



R'S SERVANT.

ly for the farmer to use. If town is over eight miles away, and the roads reasonably smooth, he can jump in and go there and back, early on a summer morning, before breakfast is ready. He can get repairs that quickly at any time repairs are needed, he can do his own trading; can take the family to amusement that only come to a town twenty or thirty miles away, and the going and coming is an added pleasure instead of a tiresome trip lasting until after chore time at night. There's

VALUE OF LOCAL CORN SHOWS

By O. W. Johnson

EDUCATION is individual. To uplift the masses it must reach each member, singly, positively. America has a great school system. It is not great because of its colleges or universities. Higher learning is but the mountain peak. It is great because of its public schools, open to all, teaching equality and opportunity, where the nut-brown, barefoot boys and the bonnie sunbonneted girls "learn to read the constitution of their country and the Bible of their God." These schools are the great base which supports the peak. Cases do not alter principles. Another education is in progress—the education that tells of crops and fields and the herds. It, too, must reach the individual to be effective.

The state-wide corn shows and exhibitions have done much to build up interest and teach better things in the world of corn. Their work is to lead. They are the universities of corn improvement. The readin', 'ritin', and 'rithmetic of the movement must come from something smaller, more numerous, something nearer to the man with the hoe. It must come from and through the local corn show.

Suppose that each town and hamlet has one exhibitor and each larger city two exhibitors at the larger corn shows. You have directly interested but one farmer out of one hundred. This may be the five barley loaves and two small fishes, capable of reaching the multitude if in the hands of a master and his followers, but we are none the less tempted to ask, "But what are they among so many?"

One exhibitor from a town arouses little interest. Off and on, a man here and there from our town has exhibited at the larger shows. It was an incident and nothing more. This year we organized a corn club in the town and held a show. Everyone was urged to enter a sample. They were out to win. It aroused something. Nothing makes a man more enthusiastic than to get beaten once or twice. If he has

enough steam in him to be any good at all he will just get his "Irish" stirred up. There will be a firmer set to the jaw and a determination to beat that fellow next year. That is the condition that our first corn exhibition brought about. It is what Wisconsin, Iowa, Missouri and all other corn states need in every town and hamlet.

The organization of the club is, of course, the first proposition. Here as all along the line during the first year, the real obstacle is a lack of interest. While we now have over thirty members to the club at the first meeting, there was but a dozen men present, nine of whom joined the club. A president, vice-president and a secretary-treasurer with a board of three trustees are all of the officers necessary. The trustees are the counsel and if politics can be guided by what is best, the adage, "Young men for action, old men for counsel," is a good one to follow in choosing these two groups. The three first-named officers constituted the executive committee. It is well that this committee have full power to act. A club of scattered farmers is too clumsy a body to require to come together for deliberation on the lesser matters of the club's business. If rightly chosen these three fairly well voice the sentiments of the community. They are liable to be the booster board also for the first year.

One of the first ideas that some of the members are always getting hold of, and the sooner they are rid of them the better, is money-making. A corn club is not a money-making scheme. It is primarily educational. Education always pays in results. It seldom if ever pays directly. If some fellows think that the object of the corn show is to put up a lot of good prizes so that someone can make a spot by winning them they are mistaken. A corn show cannot pay out any more than someone pays in and there is the expense of running it besides. It creates no wealth. Therefore most of those that go into the show must come out with less

than they put in. Its value must come in improved crops, not in rich prizes. And I confidently believe that the area touched by our show will grow 5,000 bushels more corn next summer than they would have without the show. It awoke the farmers to an interest in the seed, in cultivation and breeding. From thence comes its power. It paid.

The rules of the club are important for they determine the method of handling exhibits. This in turn measures the financial success of the show. The usual rules as to the name, purpose, and membership of the club are first. The rule governing exhibits is the most important. It contains such usual provisions as limiting an exhibitor to one entry in each class, requiring separate sample for each class, defining the area open to the competition and a demand that all samples shown be grown by the exhibitor during the season just preceding the show. We inserted another rule in regard to the disposal of the corn which is a splendid one for a local show. Men are loath to enter their best corn, especially in the bushel classes if they are subject to having someone run the price up on them at the auction beyond reason. Our rule met this need. It is as follows:

All corn exhibited shall become the property of the club, to be sold under the direction of the executive committee on the afternoon of the last day of the exhibition. Be it provided that any exhibitor can withdraw his sample from the sale by forfeiting fifty per cent (50%) of the cash prizes the sample may have won and the payment into the treasury of the club the following amounts according to the sample: Bushel, \$5; ten-ear sample, \$2.50; single-ear sample, \$1.

All such reservations must be made before 6 o'clock on the evening of the day just preceding the sale of said corn.

With this provision in the rules exhibitors felt no hesitancy in entering the best they had—a thing they claim they will not do at a small show where they are not sure of being able to get it back.

The show should be free. Ten cents admission does not help the finances of a show a great amount and it is

an irreparable injury to the educational side. Everyone will go if it is free. That is what the club wants to bring about. You want everyone to see the best corn the neighborhood can produce. And they will come in again and again if it is open. The club wants the boys and the girls, the schoolmarm and the schoolmasters, the farmers and their motherly wives, the sturdy sons and the fair daughters of the farm—it wants to get them all there to see, study and ask questions.

The making up of the prize list is a difficult piece of work which should be delegated to the more sober judgment of the board of trustees. It is next to impossible to make a list the first year that will prove entirely satisfactory in any neighborhood. Our list was divided into nine entry classes and three sweepstakes classes. Three sizes of sample, the single ear, the ten-ear, and the bushel sample were given a class in each of the colors, white, yellow, and any other color. The prizes for each of the nine classes were the same. They could hardly be otherwise the first year. We were just feeling our way. Since it is always necessary to figure on making the club pay out this even division can well be changed another year. Our club offered \$2, \$1 and fifty cents on first, second and third respectively in each of the nine classes and \$5 on the sweepstakes sample of each of the three sizes. This year's experience has shown that the "any other" classes are of little value and prove a burden. There were several men in the community who raise calico corn, but they would not show it for some reason. But two samples of it were entered. A "joker" in the rules was the omission of the word dent after "any other." This made this class open to everything from popcorn up. And we got them, too. It is a class that usually may well be left out. In most communities the white dent and the yellow dents are the standards and there is little use of encouraging what is not standard.

Friends—Tell Me Your Power Needs

SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horsepower from a real engine factory. Save dealer, jobber and catalogue-house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason; I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. Come to Waterloo and see it. I sell them direct to you for less money than some factories can make them at actual shop cost—I make so many. All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

Anybody can afford and might just as well have a high-grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for in carload lots for spot cash. An engine that is made so good in the factory that I will send it out anywhere in the U. S. without an expert to any inexperienced user, on 30 days' free trial, to test against any engine made of similar horsepower that sells for twice as much, and let him be the judge.

INFORMATION YOU WANT TO KNOW

Here's how the other fellow answers your questions. I have hundreds of original letters like these—A lot more also in my Engine Book. Get it.

How About Cold Weather?

My engine came O. K., goes O. K., I like it O. K. and it is O. K. The engine I had last winter I had a dread of starting it in the morning, but this one is a pleasure for, instead of 1 barrel of water, 2 pails does the job. I advise anyone wishing an engine to try the Galloway, as it costs nothing to try, according to their terms. W. P. Jennings, Chippewa Falls, Wis.

Is It Powerful and Economical?

When words cannot express a man's thoughts he

is up against it. I think you have the best engine on the market for the money. It is easy to start; it is simple; it is powerful, and it is a smooth-runner. I or no other man knows the worth of an engine till he has used one. I would not think of being without one at any price, and, if I was buying a dozen, they would be Galloways. On the coldest morning, all I have to do is to turn the gasoline on, throw the switch in and turn half over—and are gone. My brother used to sell fair engines and he was up to my place. He said my 5-H.P. Galloway beat anything he ever saw.

Anybody doubting this testimony, I would be glad to hear from them. E. J. Oliphant, Dodge City, Kans., R. No. 1.

Is It Simple and Easy to Start and Run?

I find the 5-H.P. engine that I purchased from you to be all that you claimed it to be. Without previous experience, I have no trouble in operating it, while several of my neighbors, with other makes of engines much higher priced, have to call in experts frequently to put them in order. I certainly would not trade it for any engine I ever saw run. E. Loomis, Gibbon, Neb.

Galloway

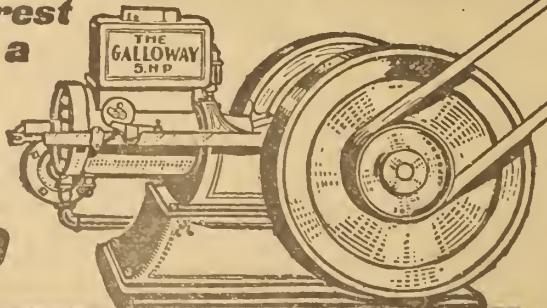
Keep the \$100 That I Save You at Home in Your Own Pocket—That's as Near Home as You Can Get.

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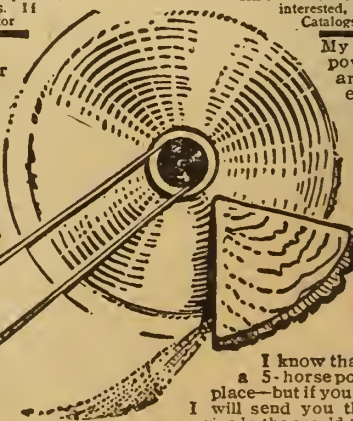
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IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. I also make the famous Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader. Also the Galloway Cream Separator. All sold on same direct plan as my Gasoline Engines. If interested, ask for my Spreader or Catalogs—FREE.



My prices for any horsepower engine you want are 'way below anybody else's—and you get the very highest quality in every Galloway machine.

2-Horsepower Galloway Gasoline Engine \$59.50

I know that it pays best to have a 5-horsepower engine on your place—but if you want a 2-horsepower, I will send you the best 2-horsepower engine in the world today, and you are the judge on my 30 days' free trial.

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3. Churning—Saves all the hard work.
4. Wash Machine—Every week—it saves the woman's work.
5. Grindstone—Saves one man's time turning.
6. Shelling, Shredding and Feed Cutting, besides running the Farming Mill, etc., etc.
7. The Elevator and Silo—Galloway furnishes the power.
8. Sawing Wood—See Galloway's outfit and description at the right, here.
9. Pumping—Power instead of "back work" or the windmill—no matter where your water comes from, you will thank Galloway for this suggestion.
10. Spraying Machines—Cheapest, handiest way to run.
11. Many Other Ways—explained on pages 10 and 11 and all through my Big Free Gasoline Engine Book—Free to you if you send your name to Galloway. Do that right away and see about them—with hundreds of illustrations from farms and factories. Write today.
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Then the prizes in the bushel lots may well be made the heaviest of the three. At the larger shows the big moneys are hung on the smaller samples. The local show is different. Practically speaking, it must pay its premiums and expenses from the sale of the corn at the close of the show. The bushel samples are the ones that fill up the treasury. If the bushel classes are full in the two classes there will be little danger of a deficit.

Omitting the "any other" classes will allow a club to throw more prizes into the white and yellow dents. Our club offered but three prizes in each class this year. It may well be increased to five. More prizes give the intoxication of winning to more men and it will increase the number of exhibits. It gives more ground for comparison.

Merchants' prizes help the club, the merchants, and the town when they can be secured. Many clubs are under the management of the merchants' booster club and all of the prizes offered are furnished by the merchants of the town. That looks mighty good for the town. One hates to knock, but it must be confessed that it is often hard to make the business men of a small town see where there is going to be anything coming from a corn show. At least it is hard to make them see it the first year. An enterprising seed house off in the far corner of the state equalled our one right enthusiastic business man in the prize put up. We expect more another year. Agricultural papers materially aided our club by offering subscriptions, at once helping a good cause and spreading good literature.

The membership is made to include all those who are interested in the up-building of the corn-raising business in the neighborhood. This year, in order to get all the entries possible at the show, no fee or membership conditions were placed on entering the corn. This will get a few entries that would not come otherwise.

Once in a while a man will come in and finding that it does not cost him anything to show will return home and get his corn. However, after a club has obtained a foothold it can well ignore this class of boosters(?) The fellow who brings his corn, enters it, and then asks about the cost of the thing is the one who will make things move for the club. Entries free to all members and a heavy entry fee to non-members is the most feasible plan. The fellow who shows because it costs him nothing is there for what he can get, not for what he can do nor for what he can give.

The selection of the judge is a matter that must be settled each time. Its importance is of the first order. A poor judge will at one sweep lose the club half of the educational value and all of the satisfaction of a well-operated show. It may not be lack of knowledge either; balance is the thing. Farm experience and agricultural college training is the combination in a judge. College training alone is all right in a favorable season when picking type is all that is required. This year it was more. Vitality all of the time and type when you could get it was the only safe stand. The man who placed our corn had the combination and chose the safe stand. Turning down type is always bucking the onlookers, but they all came to his view.

We had one side issue worked up at a late hour that was really one of the best features of the show—a boys' judging contest. Such interest, such enthusiasm and such digging! It is safe to expect a large proportion of the samples next year to be put in by the boys. We had seventeen boys in the contest and now we have seventeen boosters. It is a feature that should never be omitted from the local show.

Run by local talent, pushed by local farmers, filled by local exhibitors, the local corn show has a work—working for those who work for it—a

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work in every village in the corn belt. It is one of the harbingers of the day when, with American science replacing the drudgery of old world methods we shall yet be their equals in acre production. Today we raise more scrub corn than scrub stock. Their prolificacy makes it possible to change

strains of plants quickly. It would require but a few years for all to secure their seed from well-bred corn—if they would. They will—when aroused, interested, shown how. That is the work of the local corn club. It is an ambition worthy of the biggest boosters in every community.

THE BEEF-RAISING SITUATION

By D. A. Gaumnitz

I AGREE most perfectly with the accepted view of the transitional period through which the beef industry is now passing. Scarcity of land has caused land seekers to infringe and take up lands which thus far have been given over to the grazing of cattle for beef purposes. The grazing areas are being cut down annually, as has been witnessed by nearly everyone in the West.

While these cheap lands were to be had, beef could be produced very cheaply, and it has only been with difficulty that the beef producers in the corn belt, or farm sections, have been able to compete on the market with them. Butchers, too, because of the demand from their consumers, have been catering more to the cheaper, less highly-finished beef produced in the West, than to the higher, better-finished beef that has been produced in the farming sections. This, too, has gone against rather than encouraged beef production in the farming sections.

Beef producers in the farming sections, for the most part, have been encouraged to remain in the business only largely by virtue of the fact that the farming operations have largely demanded this. The good farmer recognizes that the production of crops, is the big enterprise on the farm, and that the growing of sheep, hogs, beef cattle, dairying, and kindred enterprises, are only subsidiary or contributing enterprises. Experiments have shown to him that in order to produce large crops, certain methods of farming must be followed; that three kinds of crops must be grown, namely; grasses which include the clovers, cultivating crops, and grain crops. These enable him to build up the soil, to keep down the weeds, and if in addition, manure is used, to make the farm more productive each year than it was the year before.

If these three classes of crops are

grown, the market for roughage immediately becomes the great problem in the central West. There is no cash market for this class of material. It must be fed to some farm animal that has a capacity for the utilizing of it. This must be either sheep or cattle.

There are a great many men that do not care for dairying nor for sheep, but beef cattle are very suitable to

their tastes, and by feeding them the roughages, they have been able to get a fair market price, but as a result have made little on their cattle. Some have been inclined to look at the cattle feeding business, therefore, as a losing proposition. However, the man who has followed this system of farming and feeding has built up his farm rather than allowed it to remain at a

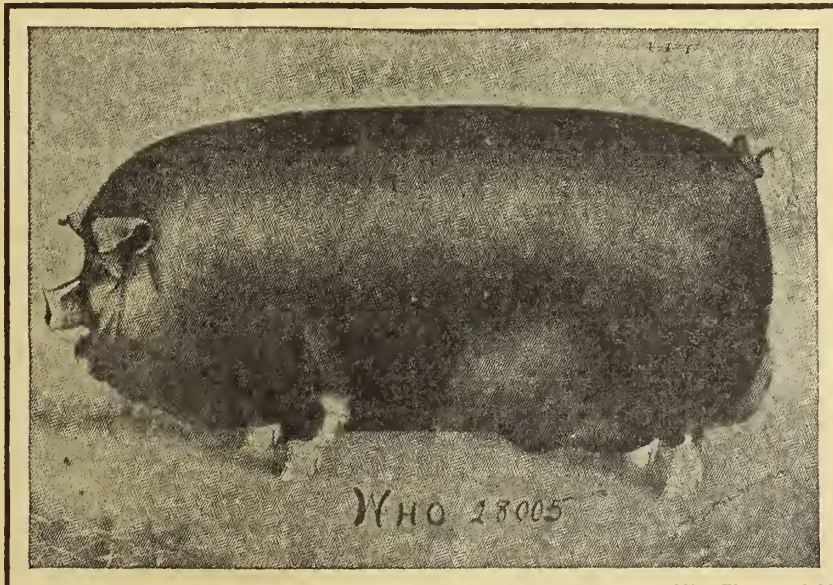
standstill as regards increased productivity.

Instead of producing an average of twenty bushels of wheat or forty bushels of oats, he sees his farm producing twenty-five or thirty bushels of wheat and sixty or sixty-five bushels of oats, because of his method of farming. On a business basis, a farm must be valued according to what it can produce. The mere fact that cattle have been added to the system of farming that has produced roughage, has enabled such farms to increase in value, and that value, undoubtedly, must be credited to the management that has been employed on the farm, and to the fact that cattle or some other form of live stock, has been used for the utilization of the roughage. It is a value that has been established on the farm that could not have been brought about in any other way.

In the future, I believe that beef must come largely from the farming sections of the Northwest. The supply required, relatively speaking, will be more, and the price that will need to be paid will be higher. This will permit the profit resulting not only from the cattle feeding business, to be more remunerative than it has been in the past; but in addition to that, as at the present time, the man who makes the cattle growing and feeding proposition co-operative with the farm, will have another source of profit, namely, the one source in which profit is made by virtue of the increased values of the farm, which is indirectly brought about by cattle.

I believe that beef production will come to be, as it is in England, as profitable a business as are many of the enterprises on the farm at the present time.

The enterprises of beef production and mutton production in the farming sections have been handicapped by the competition with the meats produced in sections where land is cheap. When this is stopped the real normal condition will begin to prevail.



WHO IS WHO.

Who is a Poland China hog, as will be noted by his picture which appears herewith. He was for a considerable length of time at the head of the herd of Mr. E. D. Keasy, at Wiota, Iowa, and the sire of a very large proportion of the consignment of brood sows which Mr. Keasy will dispose of at his sale on the 17th of February. Who is by Royal Perfection, he by Perfect Perfection and a half-brother to the Iowa State Fair winning hog, Proud Perfection. His dam was a sow whose breeding and individual merit were a credit. Who is a great big 800-pound hog and a producer of stock which possess unusual high character. He himself was a winner at the Indiana State Fair. In Mr. Keasy's possession he was for three successive years a prize winner at the Cass County Fair. Last fall he was the sire and grandsire of Mr. Keasy's herd that won ten prizes at the same show. The gilts of his get that are cataloged for this sale are of striking character, having style and finish together with as much size as anybody could ask. Two late gilts are in particular unquestionably show sows and they ought to be looked after by someone who is looking for show-yard candidates. Their pedigrees are given in full in the catalog, for which address Mr. E. D. Keasy, Wiota, Ia. See page 63.

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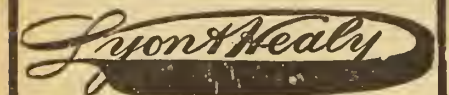
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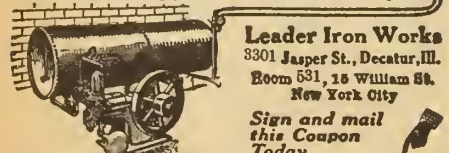
You need never carry another pail of water or even go out of the house on stormy days. Put running water in your home—in the kitchen—bathroom—toilet—and have an adequate supply in the barn for watering stock—washing carriages, harnesses—for the lawn, garden—or for protection against fire—besides. A

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makes this possible. It eliminates the unsightly elevated water tank that freezes in winter—or dries out in summer. The compressed air in the Leader Steel tank does all the work. In your cellar or buried in the ground it cannot freeze, and it solves the water problem forever. A complete system costs \$45.00 upwards and you can install it yourself, if you like.

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THE HOME

LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

Since the superstructure of society rests upon the home it is an encouraging thing that so much attention is being paid to home conditions by those who form public sentiment. Homemakers' conferences and parent-teacher leagues are calling attention to the science of home making and the necessity of co-operation between the home and the school in order that the child may receive the best education possible. This work is good. There is other work of an even more fundamental character which is latterly being done by sociologists in college halls and on the lecture platform as well as through magazine literature.

Within a few weeks two college professors have given utterance to views along certain lines underlying home life which are likely to be much discussed and to have far-reaching influence. One of these men is professor of sociology in the state university of Kansas; the other is a professor in the agricultural college of that state. That two men holding such responsible positions should give utterance to radical views concerning marriage, divorce and child culture is significant, and an omen that these momentous subjects will, in the not distant future, receive something like the attention to which their importance entitles them.

Professor Blackmar's pronouncement deals with marriage and divorce. His position is that to eliminate what is known as the divorce evil greater precautions should be taken before marriage. Holding that divorce should be easy—but stipulating that the man who has a wife and family should be held responsible for their support—Professor Blackmar would make marriage much more difficult than it now is. He would require persons wishing to marry to submit to physical examination, in order to prevent transmission of disease. He would also require publication of intention to marry for at least three months, in order to prevent the hasty, ill-considered marriages which furnish a continual stream for the divorce mill.

Professor McKeever's views are presented before the Kansas State Board of Agriculture, while not on exactly the same line, form a logical supplement to those of Professor Blackmar. Professor McKeever asks:

What are the marks whereby a young woman, whose hand is sought in marriage, may know a good man when she sees him, and those whereby a young man may know a good woman? All these matters are left to chance and accident and gossip, because of the fact that we have been laboring under the foolish belief that love is blind and not to be influenced by instruction or reason. After a brief period of thoughtless, undirected courting many a young couple are united in what we call "the holy bonds of matrimony," but that these bonds very often prove to be unholy in the sight of God and man the divorce court records will amply attest.

We require a long course of schooling for the teacher, the physician, the veterinarian. We offer advanced courses of instruction for those who would do well in the breeding and management of cattle, hogs and chickens, but we have no course of training or any standard of requirement for those who are to engage in the complex and difficult task of rearing young children in the home. How inconsistent we are! Vast sums of money are being expended through government appropriation and private endowment for pursuit of the hidden meanings of nonhuman nature, but those who have in charge the home development of the human offspring must grope in the dark for a successful way. I urge that there be instituted something in the nature of a course in matrimony. Let there be obtained by careful methods of study and inquiry a body of information as to what physical and mental and moral qualities are most satisfactory promises of efficient parenthood, and what types of temperament may be regarded as compatible. Inculcate these conclusions in the home, the school, the church and the other socializing institutions, so that they will become a part of the common knowledge of the people. And then, before the youthful wooer has the occasion to become blinded with a passion for some ill-advised life mate, he will have been guided intelligently into a search for a true, and likewise intelligent, companion.

It will probably be a long time before the views of these college professors find expression in college curriculum or legislation—just as it is likely

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of Zephyr flour. That is the result that is amazing users of this wonderful Kansas hard wheat flour. They are writing to us every day, telling how Zephyr flour is producing more bread, biscuits, pies, cakes, etc., than any flour they ever used in their lives. Better quality, too, is why

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OMAHA, NEBRASKA

and skin. The texture is not often clear and delicate like currant or apple jelly, for it is customary to use the pulp with the addition of water, as the fruit is somewhat deficient in juice. For one quart of berries which have been picked over and washed allow one cup of water and let them stew about twenty minutes. Turn into a hair sieve and rub the pulp through. Put on to boil again.

Drop Dumplings.—One pint of flour, half teaspoonful of salt (scant), two teaspoonfuls of baking powder, all sifted together two or three times, and mix with sufficient milk to form dough. Drop by the teaspoonful over

chicken or meats fifteen minutes before serving and while stewing.

Meat and Tomato Scallop.—Two cups stale bread cut into one-half-inch cubes, two cups cold meat, preferably veal, cut same size; one cup or more canned tomatoes. Place in a buttered baking dish a layer of bread, then one of meat, then one of tomatoes, and repeat, finishing with a third layer of bread. Season each layer with salt and pepper. Dot the top liberally with butter. Bake covered fifteen minutes, then uncover and brown.

HOMELY COUNSEL.

The father who is "chummy" with his boy gets down to that eager, inquiring, restless little soul and explains and encourages, does not need to cut a birch gad in order to maintain discipline; and the mother who sympathizes, cuddles and plays with her children can keep her slippers on her feet and her hair brush on the dressing table. Children need love and sympathy as much as flowers need air and sunshine.

If you would have your wife an angel treat her like one.

Never bear more than one kind of trouble at a time. Some people bear three kinds: All they had, all they have now and all they expect to have.

An hour of triumph comes at last to those who watch and wait.

There is a crop that the household ought to reap every day. It is the harvest of happiness. But it is a crop that must first be sown. Have you planted the seed?

AMONG OURSELVES.

One of the subjects which cannot be given too much attention in this circle is that of schools. Mrs. Henry Beaver has given it some thought, and being a sensible woman what she has to say is worth our while:

I would like to write a few words on rural schools. I think the trouble with our country schools is that no one is interested in them. They hire a teacher and just so she is there that seems to be all that is necessary. The superintendent hardly ever comes and when he does he only stays a few moments. The parents hardly ever take time to go and see whether school is kept or not. We have had some teachers who were interested in the future of the pupils and taught them all the knowledge possible, while others just merely heard them recite. A teacher has a great influence over a child's mind, if she would only realize it. When I was a child I thought my teacher was superior to anyone else, and I think most children feel the same way. A teacher should teach them to love their homes and surroundings, get them interested in farm life; teach them the different names of grasses, seeds, weeds, birds, insects, etc. They would thus get a good education from observing what they see in the everyday walk of life. Some rural teachers are from the city and they are talking of the dull country life to their pupils, which causes them to think the city is all gold and sunshine. And I know of some who have left good country homes and gone to the city expecting to live without work and have a good time. They were sadly disappointed and wished they had not listened to such foolish talk.

Surely it cannot be that "no one is interested in country schools." Surely parents realize that it is important that the time children spend at school should be well spent. The meetings which are being called by school superintendents in many rural sections for the purpose of interesting patrons in the work of the schools is doing a fine work in this direction. There is bound to be an improvement if we who realize the importance of the matter keep talking and agitating.

A mother whose boys will be intelligent lads with ideas in their heads will give us our "book talk."

A book talk always interests me, as I have three boys from nine to nineteen, who love to read. It is quite a difficult matter for most of us to get suitable reading matter even if it is cheap in these days of many books, unless you happen to live where you can enjoy the traveling free library, of which I should like to tell you something. One of the good books that comes first to my mind is Dr. Paton's "Life in the South Sea Islands," written for young people. It is written in an interesting style and he had so many thrilling escapes from death among those impulsive natives that it holds the attention of the boys. Dr. Livingston's "Life in Africa" is another excellent book. Another, but very different book is Helen Keller's "Life" written by herself, and I find that even little folks of seven and nine enjoy this very much if mother will read it aloud. Some hard places can be skipped and other things explained so what they could hardly understand themselves will be long remembered and appreciated. "Wild Animals I Have Known," by Ernest Thompson Seton, my three boys have read over and over again until the different animals seem like old friends and all the old crows are named. Silver Spot and Mollie Cottontail are any one of the timid rabbits that hide around the farm. "The Call of the Wild," by Jack London, is another strong animal book that seems to make the old dog tell his own story and leaves one with a feeling that the dumb animals merit better treatment from all mankind. John Jacob Abbot's histories are very interesting if read aloud to the family these long winter evenings, and they are written in such a way the older boys enjoy them. Then when we come to fiction there is a great abundance. Ralph Connor's stories are good, wholesome ones, "Black Rock" and "The Sky Pilot" being the best I have read. They are stirring stories of life among the lumbermen of Canada, but with a tender wholesome trust in God, leading through the stories like a golden thread. The "Leather Stocking Tales" are a treasure house of joy to the

average boy of ten and the early teens. They are full of fighting and adventure to be sure, but the books are written in a manly way and without the slang and strong words that disfigure so much of recent fiction in our magazines and books.

If all the homes represented Among Ourselves had the book atmosphere indicated by Mrs. Nelson's talk what a good thing it would be. The biographies of noble men and women stimulate to endeavor as few things do; history familiarizing the mind as it does with the story of the nations broadens and cultivates the intelligence; travel widens the horizon; good fiction not only supplies healthful recreation but becomes a factor in character development. It will thus be seen that such books as Mrs. Nelson refers to are invaluable in a home.

After books and music and pictures come flowers as a refining influence in the home, and we are to hear something about window plants from Miss Maud Dawson:

Have any of you who must use a northwest window for house plants tried a variety of leaf forms to make it beautiful? Flowers do not give themselves very freely in northwest light under living-room conditions, though an immense Christmas cactus is making our room gay with its dozens of crimson and pink drooping bells, and a begonia, whose clusters should be scarlet, nods with pink sprays. The leafless cactus stems and the oddly-shaped begonia leaves could hardly be more different. Two magnificent begonias of the rex type give color as well as variety in shape. A fern with feathery fronds and an asparagus like a green mist of daintiness keep the positive forms from dominating too strongly. A velvet plant, purple tinged over dark green, and several lovely coleus complete a very charming window which is quite satisfactory to rest eyes weary of the white glare of the snow-covered earth. It is not at all hard to keep in fine condition—well, that is, not hard if you love plants and understand their language.

Another lover of window plants has dropped into our circle, Miss Katherine will tell us of her ferns:

I have two monster pots hung like hanging baskets in the window—one above the other they fill the entire window and the fronds of the large fern reach over half way down the window. That is, starting half way in the upper pane they almost reach the bottom of the lower pane. I sprinkle them always four times a day and so far they seem to be happy and intending to live. The stand at the side of the window is one vivid glowing green. My pimplae are in bloom and the yellow jonquils are fairy breaths of fragrance. The joy that these flowers have given me is unspeakable.

It may be heresy to those who cultivate winter flowers, but I will venture to say that unless there are several windows I should not approve of giving one of them entirely up to plants. What do the friends think about this? Is it wise to close up the best window with flower stands and hanging baskets?

A little maid gave a pot of white hyacinths to her pastor a few weeks ago and they inspired the pastor's wife to write some verses which make me happy to have the privilege of presenting Hattie Lake Burch to our circle:

WHITE HYACINTHS.

Sweet little fragrant blossom
Lifting your cups of bloom,
Spilling your treasured sweetness
Into my tired room.

Where did you come from, sweetheart?
Who sent your fragrant dream
Into my life? Who told you
How much I needed the gleam

Shining about your young faces,
Shining about your young heart
Into the innermost places,
Healing and soothing the smart

Of the contact of life and its sorrow,
The contact of sin and despair,
Strengthening me for tomorrow
With all its staggering care?

I shall sleep sweetly and soundly,
Dreaming a dream of you,
Knowing your lily petals
Bring me a message true

Of resurrection from darkness,
Of bloom from the deep of the dark,
And that hidden away in our blindness
Is ever the tiny spark

Kindled by love and sunshine
Into a living thing
Blessing to life and promise
The best that our life may bring.

The best and the sweetest and dearest,
The love of a child's young mind,
Approaching to Christ the nearest
Of any that we can find.

God bless both the gift and the giver!
Let the sweet story be told
Over and over and over
Because it can never grow old.

Springtime shall always renew it,
Autumn shall always fulfil,
And winter and summer be sweeter
For blossoms on valley and hill,

Till the earth is as old as the oldest
Old thing you can think of or name

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as more body
as the
sales.
each explains

And then it will just be repeated
Ever and ever the same.

And there isn't a handful of dust, dear,
However barren or bad,
If someone had planted a lily
But it would be blooming and glad.

So scatter your sunshine and heart-shine
Over the coming years;
Live for and love them and surely
Up from the tender spears

Shall open the fragrant blossoms
Into the world of men,
Cheering and blessing and giving
Comfort again and again.

What a difference there is. One person looking at that pot of white hyacinths would have no thought except of their beauty and fragrance, but another is stirred to muse on the facts of Nature and the purposes of Nature's God.

"A College Boy" wants us to give a few moments' attention to a cutting he sends which illustrates the peculiarities of our language and may—he suggests—be made the foundation of a pleasant evening:

Imagine yourself a foreigner trying to master the construction of the English language. Perhaps you may be gazing at a number of vessels on the water, and exclaim, "See what a flock of ships!" You are at once told that a flock of ships is called a fleet, and that a fleet of sheep is called a flock. It might also be added for your future guidance that a flock of girls is called a bevy, while a bevy of wolves is called a pack; yet a pack of thieves is called a gang, and a gang of angels is called a host; but a host of porpoises is called a shoal, and a shoal of buffaloes is called a herd. Still, a herd of children is called a troop, but a troop of partridges is called a covey; a covey of beauties is called a galaxy; while a galaxy of ruffians is called a horde; a horde of rubbish is called a heap; yet a heap of oxen is called a drove; a drove of blackguards is called a mob; but a mob of whales is called a school, and a school of worshipers is called a congregation.

If mothers will call the attention of children to this jingle it will amuse and instruct them at the same time.

Mrs. L. J. C. has a word for us on two or three matters of interest:

May I say a word to that dear nameless lady who came for advice a few weeks ago? She feared her husband was growing indifferent and yet she did all she could to please him and loved him with all her heart. Privately, I think she is too good to him, and what he needs is a little stirring up. I don't believe in "bearing in silence." Dear lady, the best advice I can give you is to say the same things to your husband you said Among Ourselves, and frankly tell him how you feel. He will probably be a very much astonished young man, for I am pretty sure he hasn't the remotest idea that he is wounding you. The average man thinks that to woo and wed a woman proves his love, and that such proof will last a lifetime without again mentioning his devotion. The average woman needs to be told over again, once a day at least, for women are supersensitive. If he doesn't fulfil the requirements, the best and safest way out of the difficulty is to remind him not tearfully, but laughingly. How many of you farm women "pass on" your magazines? That is, save them up and give them to some other woman who loves reading and who will find them cheering and helpful, with instructions to read them and then give them to someone else. I know how overjoyed I have been when I have unexpectedly fallen heir to someone else's old magazines—new to me. If you don't do this, try it. You will enjoy your magazine twice as much if you share it with someone else. A neighborhood magazine club would be a good thing carried on in this way. Thereby one person who alone, could only afford one or two magazine subscriptions would get the benefit of several good magazines.

Initials are intended to disguise, but I may whisper that Mrs. L. J. C. is a young wife herself. Her advice is probably the result of successful experiment. Her hint as to neighborhood magazine clubs is admirable. We none of us have as much social life as is good for us—working people, I mean—and such a club is an excuse for informal meetings where the friends entertain each other informally and brighten themselves by exchange of ideas on all sorts of subjects.

The appeal of M. L. H., which interested so many of our circle brings a young woman to us who has been in similar circumstances. "Fayette" feels her experience should be helpful to M. L. H.:

I was much impressed by M. L. H.'s letter, and having had the same experience as she, viz., having been loved and proposed to several times by a young man who for years had been a constant friend, and gave up dancing, parties, etc., because I desired it, attended church and was a devoted lover, but was not a Christian, I feel that I can understand her perplexity. She asks if she has done right in becoming engaged to him on the condition that he become more of a Christian, etc. If she will prayerfully read II. Cor. 6:14-17 she will see what the Bible says about yoking together. The fourteenth verse commands: "Be ye not unequally yoked together with unbelievers." How is it possible to be more closely yoked than in marriage? The remaining verses will help her to see why unequal yoking is unwise and displeasing to God. Let us ever remember

that the Word of God is an unchangeable book, and not endeavor to reason or pray around its commands, as I know of some young people who do. We need only to look around us to see the unhappy homes, broken hearts and lost souls, the result of the marriage of a believer with an unbeliever. Until the young man of whom M. L. H. writes becomes not only more of a Christian, but an entire Christian (which only Christ, not all his own endeavors alone, can make him) I firmly believe that she should have stood firm and entered into no engagement with him. I believe this was her duty as a Christian, which should always be considered first. This light came to me through the Bible and godly ministers, and I can never become engaged to the man who loved me, the man of my choice, unless he becomes a Christian, thus making it possible for an equal yoking. May M. L. H. carefully and prayerfully decide this great question aright, for "There is a way which seemeth right unto a man, but the end thereof are the ways of death." Prov. 14:12.

"The letter killeth, but the spirit quickeneth"—and it is for every one to be persuaded in her or his own mind. Of one thing there is no doubt. It is better to be careful, to weigh the matter carefully and prayerfully, than to rush into matrimony and do the considering afterwards.

Housewives all over the middle West come to us from time to time to offer of their housewifely experience or to ask for help in housewifely need. It chances that Mrs. N. I. comes asking help:

Could someone tell me through these columns how to dry and can beef at home for summer use? I would be very grateful to anyone sending in tested recipes.

There must be any number of housekeepers Among Ourselves who can help this friend with tested recipes. Let us have a hearty response—and when you send your recipe slip in a page or two about something else—your work or your play as best suits you.

When we were talking of flowers was the time, but I let it slip by, so I announce now that \$5 in prizes will be given for the five best articles on "Our Garden," articles to be not less than 250 and not more than 350 words in length, and to be received by March 20th. I want that we should talk about gardens and growing things, vegetables and flowers, trees and shrubs. Tell why we should cultivate them. Tell what your garden has been to you and your family in the way of pleasure and profit. Tell us

Gifford Pinchot on Country Life

The question of better life in the country is one with which both the state and the national government are intimately concerned, but in which they can do little more than point the way. The farmers themselves must decide. If country life is to become more dignified, better thought of, with larger rewards in comfort, income and social advantages, it must be the farmer who will bring it about. Others can help, for this is a national problem, but the solution itself lies essentially with the man who lives in the country.

If the farmer decides that he will have country schools which train his children for life in the country, then such schools will arise, and the farm children will grow up with a keener zest in country life, a deeper knowledge of it and a better opportunity to succeed on the farm.

If the farmer decides that he will have better means of communication in the country, then more telephones and better roads will come, and with them more rural free delivery routes, and the parcels post. The latter the farmers of the United States already want, and want unanimously, but they do not yet seem to have decided that they will have it. When they do, they will get it.

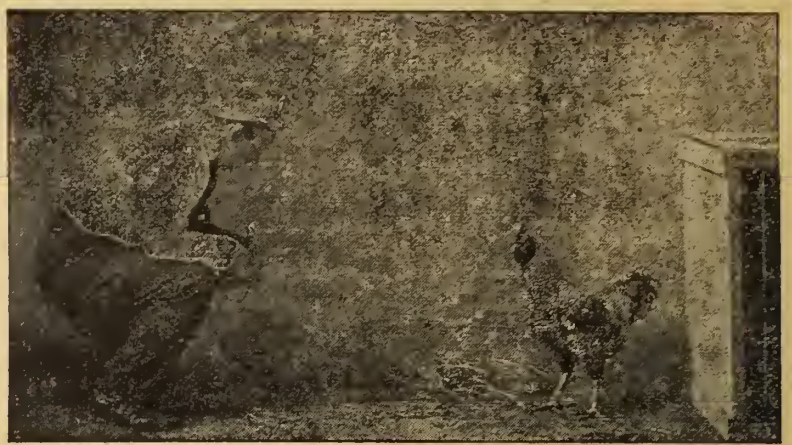
If the farmer decides that he will have better sanitation on the farm then the fearful tax of stricken, wasted lives will cease, especially in the South, and farm life will be freed from one of its most serious detractors.

Most important of all, for it includes all the others, if the farmer decides that he will himself put an end to his own isolation and work in co-operation with his fellows for all the great objects of united interest common to the farmers of each farming neighborhood, then the beginning of great things will have arrived. The co-operative spirit is the master spirit of this age, and the farmer has been the

last to feel its influence and respond. In spite of the great good accomplished by the Farmers' Union and the Grange, our farmers as a whole are largely unorganized for their own benefit. Practically all the interests with which the farmer deals are organized against him. Without organization the farmer is helpless. It is another case for applying the wise adage, "United we stand, divided we fall."

Organization among farmers means better farming, for many heads are better than one. It means better business for if anything is clear in modern business life it is that the man who stands alone is at a disadvantage. And most of all, it means better living on the farm, better social and educational advantages for the farmer, his wife and their children; more comfort, greater satisfaction and less desire to leave the farm. When the things that make life worth living are found in greater abundance in the country than in the towns, as some day we shall all see that they are or should be found, then country life will take its rightful place. And the way to reach it is along the road of co-operation.

It is by setting such facts as these plainly before the farmers of the United States that the state and national governments can best help the farmers themselves to take the next step to further their own betterment. The United States Department of Agriculture and the state agricultural colleges and experiment stations have established a broad foundation of available knowledge on how to farm. It is now time to lay more emphasis on how best to apply this knowledge and above all on the fundamental farm problem, which is this: How can the farmer and his family realize the best home life and the best social life on the farm? The great problem of the country is not a problem of crops but of human lives.—(Gifford Pinchot in a public address.)



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SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson VI.—Matthew VI., 1-15.

February 6, 1910.

Almsgiving and Prayer.

On the inky background of a blended Phariseism and heathenism, Jesus causes true prayer to stand in clear-cut outline. For some, prayer was the playing of a part. The place where they contrived to pray was so ordered as to insure them a human audience. Their attitude was spectacular. Such prayers were always answered. The thing sought was admiration and applause. It was not withheld. Jesus intimates the parity of heathenism and Phariseism when, without hiatus, he proceeds to depreciate the pagan custom of babbling—of endless iteration of phrases. Having indicated what prayer is not, he proceeds to affirm its essential character. Prominent in this is its retiring spirit. It seeks the closet. It closes the door. Its one concern is to be seen and heard of God. At the same time it recognizes the fact that Omniscience must know the need before it is framed in words. According to his custom, Jesus now gives a specced example of a right prayer: "A pattern prayer, so exactly suited to the wants of men that it has become the basis and substance of all Christian worship." It is a fine example of the avoidance of many words insisted upon. The equilibrium between comprehensiveness and condensation is maintained as Jesus only could maintain it. The exordium is a reverential address to the Deity, in which his existence, unity, and paternal character are adoringly recognized. As the kingdom of heaven is practically the topic of the sermon in general, so it will be found the solvent of this prayer in particular. The coming of the kingdom will insure the hallowing of the divine name and the doing of the divine will, as in heaven, so on earth. The coming of the kingdom insures absolute, reduces temptations, and consequently delivers from evil. Criticism has fairly established the fact that the doxology was not a part of the prayer as originally given. But the lofty ascription chords so perfectly that it will probably continue in use forever.

The Teacher's Lantern.

Certainly Jesus' purpose was not to forbid public prayer. He prayed publicly himself. The first word ("Our") of this ideal form indicates that it is intended for congregational use. What is meant is, that secret prayer is to preponderate. The prayers of the Pharisees were not offered to God at all, since man, and not God, was in their thoughts. "Prayer-wheels," turned by waterpower, abound in India. The prayer, pasted on the wheel, is thought to be said with every revolution. We laugh at the crude device, but are we wholly free from meaningless iterations? God does not need to be instructed or aroused. In Michael Angelo's palace in Florence there is a closet in the wall covered with a secret panel. There, alone, he wrought his ideals. The secret pains had their open reward. So of prayer. "Whoever can name 'Father' can pray the whole prayer." The prayer can be divided into two parts: The first relates to the Father, and contains three petitions, i. e., concerning his name, his kingdom, and his will. The second concerns ourselves, and is comprehended in the words bread, forgiveness, deliverance. Prayer is, in the highest conception of it, a state rather than an act. Benefit depends upon continuity. The Christian is not required literally to pray without ceasing, but to have a holy aptitude for it. "I have so much to do, I cannot get along well without three hours a day praying."—Luther. Daniel was a busy statesman, but amid the cares of office he found time to pray three times a day.

"Lord, what a change within us one short hour,
Spent in thy presence, will prevail to make!"

—Trench.

"When the whole number of the sons of God shall have reached this goal, a pure doxology will arise in

heaven: Hallowed by the name of our God! His kingdom is come. His will is done. He has forgiven us our sins. He has brought temptations to an end. He has delivered us from the evil one. His is the kingdom and the power and the glory forever. Amen!" —Bengel.

DRESSMAKING—NO. 62.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Princess dresses that are made with jersey portions to which skirts are attached are among the prettiest possible frocks for little girls. This one can be made simple or dainty as suits the material and the occasion. It can be made with high neck and double sleeves as illustrated, it can be made with low neck and short sleeves or with high



[6584 Girl's Princess Dress, 2 to 8 Years.]

neck and plain long sleeves, so that it suits almost every occasion and almost every childish material. This one is made of blue cashmere with bands of braid trimming and is worn with a sash of messaline ribbon. This design is just as appropriate for linen and other washable materials, however, as it is for wool and the sash can be used or omitted as liked. Made as shown in this back view from pale-colored cashmere, this dress would be adapted to parties and occasions of the sort, but as illustrated it suits afternoon wear. Shown in the small front view, it becomes adapted to morning use.

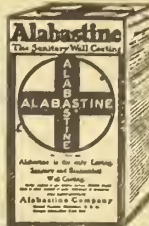
The dress is made with the jersey portion and the skirt. The skirt is straight and plaited and the jersey portion is fitted by means of seams that extend to the shoulders. The short sleeves can be used either over the long ones or separately.

The quantity of material required for the medium size (6 years) is 4 1/4 yards 24 or 27, 3 1/2 yards 32 or 2 1/2 yards 44 inches wide with 3 1/2 yards of insertion, 2 1/2 yards of ribbon for sash.

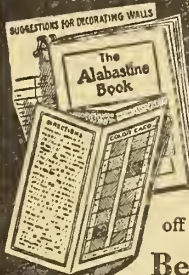
The pattern 6534 is cut in sizes for girls of 2, 4, 6 and 8 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

The dress that is made in enirass, or jersey, style is such a pretty and becoming one that its favor is constantly increasing. This model can be made simple or dressy as it is treated in one way or another. In this case a pretty checked wool material is trimmed with heavy laces and silk banding and worn with chemisette of dotted net, but with the trimming portions omitted the dress becomes the simple plain one shown in the small view. Cashmere and henrietta, chiffon broadcloth and materials of the sort are much liked for immediate wear and mothers who are beginning to think ahead for the future will be glad to know that the same model promises to be a great favorite made from linen and materials of the sort.

The dress is made with the jersey portion and skirt. The jersey portion consists of fronts, side-fronts, backs and side-backs. The skirt is straight and laid in backward-turning



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plaits and the trimming portions, when used, are arranged on indicated lines. The chemisette is faced onto the dress itself, which can be cut away beneath if a transparent effect is desired.

The quantity of material required for the sixteen-year size is 7 1/4 yards 24 or 27, 6 yards 32 or 4 1/4 yards 44 inches wide with



[6535 Misses' Princess Dress, 14 and 16 Years.]

3/4 yard 18 and 5 1/2 yards of banding for the trimming portions, 3/8 yard 18 for the chem-

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THE YOUNG FOLKS

WINTER.

'Tis winter;
The birds have flown south,
And Jack Frost has taken
The leaves in his mouth.
—Velma Lawrence.

Fun Among the Flowers.

We are seven little sisters. We have good times together. Five of us go to school now. We live on the second highest point in Sauk county, Wis. In the summer we play on the top of it; we build houses and gather flowers. We find Indian pinks, daisies, blue violets, mandakes, and we find pretty stones, agates and pretty moss and ferns. We decorate our playhouse with ferns and grapevines and other pretty flowers. Lena Fitzsimmons.

Enjoys Her School.

I am a farmer's girl eleven years of age. I go to school every day; am in the seventh grade. I study arithmetic, physiology, geography, spelling, history, grammar, writing, civics and drawing. My teacher's name is Miss Bogan. I like her fine. The school to which I go is quite large. We have a bookcase and organ. There are about twenty scholars that attend regularly. I have three brothers and two sisters. I have one brother younger than myself. I saw some very good letters in the paper on the subject, "How I Spent Christmas." Hazel McDonald.

Going for the Sheep.

"Come Sport, it is time to get the sheep." He knows what I mean and runs to me. We start off walking, for it is very warm. We go across a bridge and through a place where there are woods on both sides. When we get out on the other side I see there is a terrible storm coming up. I start to run and Sport trots along by my side.

Now we are at the pasture. I go back a ways in the woods and then send Sport the rest of the way alone. He starts off barking and soon comes back with the sheep. I count the sheep and they are all there. Then we start for home. Just as we get home and get the sheep in their shed it begins to rain. The sheep bleat and seem to say, "We are glad we got here before it began to rain." We would not bring the sheep home only we are going to shear them tomorrow. There are one hundred sheep in all.

Thelma Streckenbach.

This Boy Studies Music.

I am a farmer boy. My father, mother and sisters and I live on a big farm of one hundred and twenty acres. We have four horses and seventeen head of cattle. I go to school every day. I have to go three-fourths of a mile. I am in the eighth grade. I study out of natural geography, English, grammar, Miles Standish, Montgomery's history, civil government and Smith's arithmetic. My teacher's name is P. L. Churn. I am taking music lessons on a violin. At first it was hard but now it is quite easy for me. My music teacher's name is Professor Porbe. Bennie Barta.

On a Dakota Ranch.

I live three miles north from Holmes and ten miles west of Thompson, N. D. I live on a farm of one hundred and sixty acres, with my parents and two brothers, Edwin, seventeen years, and Clarence, two years, and I am eleven years. Our house stands on a little hill with a few trees around it and some fruit trees—plum, cherries and apples—and quite a number of berry bushes. The most of our neighbors are German, and I am of German descent myself.

The largest part of our house is sixteen by twenty-six and the kitchen part is sixteen by sixteen and fourteen feet high. There are six rooms, three closets and one pantry in the

house. It has a porch on the east side and a little one on the north. We burn two coal stoves which keeps us cozy and comfortable. My bedroom is upstairs and is heated from a register leading from the heater downstairs.

We have a barn forty by forty with a hay loft and two feed rooms and one water room. We have a chicken house ten by fourteen and I gather the eggs there every day. We have a pig house that joins the chicken house. We have two wells on the place. We grind our own feed with the windmill which stands on a house fourteen by sixteen where the grinding machine is. Our machine shed where we keep our machinery is twenty by thirty. Our granary and buggy shed is fourteen by thirty-two. They are joined together. There are other little buildings besides. This is the place where I was born. My parents have lived here twenty-three years.

Willie Bahr.

A Long Ways to School.

I am twelve years old. I am in the fifth grade, and could have been farther in the books but I have three miles to go to school and that is why I miss so many days of school. When it snows and storms I have to stay home, so I have to do my best when I do go. I have no sisters or brothers to play with when I am home, but I help my mother and father with things that I can do, and sometimes I go in the snowhills with my sled and my little dog. When he sees that I take my sled he jumps on it. I have a little kitty named Dike and when I sit down he jumps up on my lap.

Arnolda Christophersen.

A Sleigh Ride.

One morning one of my cousins and I went for a ride in a sleigh. We were on an old road that led down to an old house. The sun was shining brightly. The ice on the trees glistened in the sun and made it so bright that it almost hurt your eyes. The horses were iron gray. When we started down a hill we had to hold on tight for the horses carried the sleigh down the hill very swiftly. When we got down to the foot of the hill there was a deep ravine and it looked as if we would run into it for a minute. The air was full of music from the birds. When we came to the ravine we were half a mile away. We had just got to the edge of a road. We traveled along very swiftly till we came to the town. We went up through Main street and into the toy shop and bought as many toys as we could get in our toy box. It was getting to be about twelve o'clock so we went down to the hotel, went in and ate our dinner and came out and got in our sled and started to another town about three miles from there. The horses had been standing for about three hours. They were glad to start, too. As we went over the snow we saw many sights. We saw boys skating on ponds, men chopping wood, some riding in sleighs, and many other things. It was getting to be about four o'clock p. m. When we got there we stayed there awhile and started home. The horses knew we were going home, too. When we got home it was about twelve o'clock in the night. The horses were soon unhitched and fed. We had another horse tied in the stable and when I came to feed him he neighed as if to say, "Where have you been?" We soon fed them and went to bed, for we were tired.

McKinley Riffe.

A Story of St. Nicholas.

Once there were two little girls who lived with their parents in the large city of London. Mabel's parents were very poor but Rosa's parents were very rich. Mabel's father was a drunkard and he would beat poor little Mabel very often. It was Christmas at the time I am writing. Mabel never

feared but what St. Nicholas would bring her something. Mabel and Rosa talked all day long of what St. Nicholas would bring them. Mabel's mother heard her little girl talking and it made her feel very sad for they were very poor and she knew how sad her little girl would feel when she saw that St. Nicholas had forgotten her. But Mabel had no fear for she thought that St. Nicholas always brought the children something at Christmas. Mabel went to bed very early but the poor mother stayed up late. There wasn't a cent in the house. What was she to do? She was tired and sleepy so she thought she would go to bed.

As soon as the gray light began to creep in at the window Mabel was up and then she started to her little ragged stocking that hung by the window. The child had opened the window so that St. Nicholas wished he might not have to come in but just put in the presents and go on. Mabel ran to her stocking but to her surprise the little stocking was just as she had left it. She went back to bed very sadly but had just got in bed when a rap at the door was heard. Mabel jumped up, for her mother was fast asleep and she thought it was her father coming home. She opened the door and there stood her little friend Rosa. She had come to tell what St. Nicholas had brought her.

When Rosa was gone Mabel said, "Mother, why didn't St. Nicholas bring me something?"

"Oh, my little dear, St. Nicholas don't like poor children."

"But why, mother?" said Mabel.

The mother did not answer. She took Mabel on her knee and said, "Because St. Nicholas is a rich man and he is not going to stop at a poor child's house."

Just then Rosa came and took Mabel over to show her her fine doll and many other things. Then when Mabel said that St. Nicholas had forgotten her Rosa was sad to think that her little friend had been forgotten. She divided her toys and gave half to Mabel. The children have always been friends since that time.

This is one of the true stories that happened many years ago.

Edith Hethcock.

Farm Better Than Town.

I just love to go to school and learn how to read, write, spell, and figure, or everything that I can learn, but that is not all I like. I love to play and skip around with the girls and boys. When at home I always hurry to do my work up, I always help milk and carry in wood for mamma and dry dishes and so many little things I can do for mamma. Oh, I think it is so much nicer to live on a farm than in town. We used to live in town but I like it much better on the farm, because on the farm we've got horses, cows, hogs, chickens and geese and mamma says next spring, if we live, she is going to raise some turkeys. I always take care of mamma's little chickens, and I just love little pigs, papa raises a lot of them every year. Papa says the pigs are a poor man's friends, but I think the chickens are just as good for whenever mamma takes a load to town she always brings a lot of good things home for me and my sister, Pearl Mabel, and my brothers. I have four brothers, the oldest one's name is Iven Sylvester, the next is Alva Aldine, and the next is Cleon Orvel, and the next is the baby, he is eight years old, and his name is Loyd Benjamin John Joseph, he has papa's and my two grandpas' names. The people always laugh at him for having so many names, but he just laughs with them.

Lillie May Oyer.

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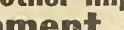
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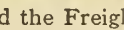
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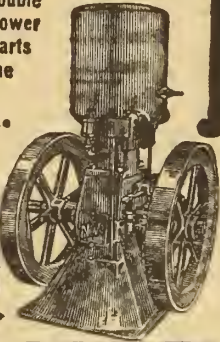
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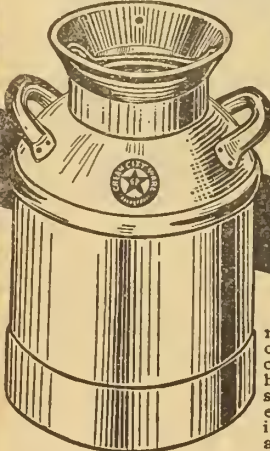
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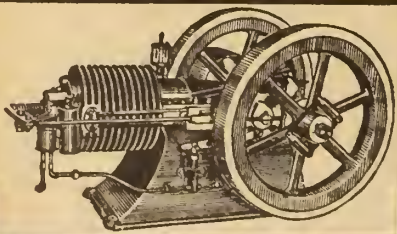
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a farm crop. These give a constant succession and variety. There are other vegetables which might be preferred in the place of some mentioned. Some of these vegetables grow in perfection and, brought fresh from the garden, are real luxuries. Such are sweet corn and Lima beans, with visions of succotash the year around. Such are tomatoes, grown on a trellis, away from the dirt and exposed to the sun. One of the finest sights the garden affords is a trellis covered with tomatoes grown in this way.

The small fruit side of the garden is fully as important as the vegetable side. Others are to discuss the cultivation of small fruits. We will only name some fruits which have been a success in our garden, and delicacies on our table. First comes the strawberry, a real luxury. By growing a number of varieties the strawberry season has been lengthened to five weeks. Next comes the raspberry, red and black; several desirable varieties, early and late. Then comes the currant and gooseberry, the value of which the housekeeper well knows; the easiest of all the small fruits to grow. Their enemy, the currant worm, is easily headed off. I wish all injurious insects were as easily managed. After the currant comes the blackberry, which is becoming popular. The last of the small fruit is the grape, and this is the most delicious of all. Grapes have been a success with us for the past twenty years, with three or four exceptions. The grape season can be extended for two months and longer by careful preserving. This list of fruits will furnish a dish of berries or fruit every day from the middle of June to the first of December.

The number of varieties grown needs only be restricted by the time to devote to and the taste for eating them. With me it has been a great pleasure, both to grow and eat them. The following extract taken from the Michigan Horticulturist so nearly expresses my thought on the garden that I quote:

The garden is the poetry of the farm, and though you may never scribble upon paper, to be familiar with the growth and beauty of an orderly garden will fill your soul with the same kind of delight that it would to spend an hour with your most favorite author. If circumstances prevent me for a day or two from going into my garden, I get real lonesome for a sight of it, and usually embrace the first opportunity to visit this always interesting spot. My children love the garden with its vegetables, its fruits and its flowers, next to the love they have for the house, for it is a part of the home, and there are no forbidden fruits there.

The apple orchard, more or less of it, is found near almost every farm house. It was considered by the early settlers of as great a necessity as the potato patch, and if as much persistency had been used to overcome the difficulties of apple growing as in fighting potato bugs we might still be in possession of the orchard. The apple, of all fruits, is the most useful and desirable. On account of its healthfulness and delicious flavor, its excellent and long keeping qualities, it is acknowledged to be the king of fruits. Where the apple grows, there is my country. Where the apple will not grow, there will I not dwell. Oh! the apples of our childhood home; apples red, yellow, green, striped, blotched and russeted; apples big and little, sour and sweet, early and late, apples for cider and sauce, for pies and for dumplings; apples green and dried, apples raw and baked, apples twelve months in a year.

Does it not commend the wisdom of the old serpent, as well as the good sense of this fruit-loving generation that chose the apple of all the fruits of Paradise as the one best calculated to entice Mother Eve? Was it any wonder that one of her grandsons was so reluctant to leave the old gentleman's apple tree, of ancient spelling-book fame?

Shall we have the orchard by our home, covered with blossoms in May and laden with fruit in September? We confess to being much discouraged, and the orchard itself looks yet more discouraged. "Well," says the man who has hauled his last apple tree to the wood pile, "what are you going to do about it?" The tree peddler is on hand with answer, "Plant more trees from our hardy list," and shows flaming pictures of new kinds, which he will sell for \$1. "The quality is truly Nonesuch and they bear enormous crops of fruit the second

year." Very likely nothing will be seen of either fruit or tree the second year. Selling fruit trees is an honest and useful business. Moreover, the great waste of money and failure of success is as much the fault of the planter as the seller. But I have had a little experience, and I advise to "look a leetle out."

Standard trees of the best quality should not cost over twenty-five cents, delivered. Some of the best trees I ever planted cost only from twelve to fifteen cents. There are only a few varieties that will pay for planting, and they are plenty and cheap. Somebody must try the new varieties, but they are generally a costly experiment, often ending in failure.

We have a few varieties that are absolutely hardy, but they are mostly early fruit. There are three or four more that, if planted, will pay for themselves. Others will be found, so that we hope to have a good orchard in Wisconsin.

There are growing on my farm in Rosendale two apple trees which, to the best of my knowledge, have been bearing good winter fruit for upwards of thirty years, and are good yet. We are not here recommending special varieties, or discussing methods of cultivation, but the fact of an orchard.

We do not advise planting commercial orchards in this vicinity, but we do advise and exhort every farmer to plant in a good place, twenty-five apple trees, selected with the best knowledge to be had, and cared for and protected as living things. If the selection is best, and the treatment such as they deserve, the trees may be expected to bring forth fruit a hundredfold, and every one of them has a pet name.

In after years, while our sons and daughters turn back in their memories to the wood lot and pasture, the hillside and brook, the different cows and horses and the old barn, their

thoughts will return oftener and remain longer nearer home. The grassy yard, where they held their sport within sound of mother's voice; the garden with its fruits and flowers and the old orchard with its favorite apple trees, all remind them of the best home which the sun ever shone upon, and from which they went out to make like pleasant homes and be living examples of all that is good and noble and useful.—(The first address ever made by Mr. Hill before a Wisconsin Farmers' Institute. It was delivered in the winter of 1886.)

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Home-Craft furniture is distinctive, exclusive; made in styles that are never duplicated in cheap furniture and it lasts longer than furniture costing four times

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Only the best of quarter sawed oak is used—each piece thoroughly aged by our special process—accurate y cut ready for shipment. Metal parts rust proof.

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That's just what you are doing, sir—wasting your grain because you don't grind it before feeding. You're losing corn-cob profits, too! For ground cob is an important ration ingredient. Post yourself. Order the Booklet, "The Right Way to Feed Grain," which is free to practical farmers. Gives briefly, in bodied-down form, latest facts on feeding hogs, cattle, milk cows, horses, sheep and poultry—a wealth of information free.

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Farm



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Iowa Gates

hang close to the ground and have barb wire at bottom, so they are hog and chicken tight. You can raise them a little to pass over slight obstructions or away up high enough to let hogs run under or to swing over deep snow drifts. They are made of **High Carbon Steel Tubing**, not common gas pipe, but specially made, double strength tubing that is heavy enough to turn all vicious stock.

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Sent on 60 days free trial. Write for free book on farm gates
JOS. B. CLAY, Mgr. Iowa Gate Company
9th St., Cedar Falls, Iowa.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

NATURE OF FIXTURES.

There is perhaps no subject connected with the sale or lease of real estate which causes more trouble and vexation than that of fixtures. As a general rule, parties leave the subject wholly out of their contracts, and later on settle it through strife and contention, and sometimes by an expensive lawsuit.

Fixtures constitute a class of property which stands upon the boundary line between real property and personal property. In one sense, fixtures are personal property. Indeed, it is only in a legal sense that things in their nature personal are deemed by the law to be a part of the land upon which they are situated, and hence fixtures to it. The common and general meaning of the word "fixture" is a thing so fixed to the land that it cannot rightfully be taken away when the land changes owners or occupants, without an agreement to that effect—a thing that legally goes with the premises, and is the property of whoever owns the land, and cannot lawfully be removed from it without his permission. The word "fixture," is always applied to articles of a personal nature which have been affixed to land. It is a general rule that anything of a personal nature not fixed to the land cannot be considered a fixture.

In order to constitute a fixture, the thing must be fixed to the land in some degree greater or less. As to some articles, however, the manner of their being fixed to the land may be very slight, and sometimes rather constructive than actual and physical. For instance, doors, window blinds, screens, swinging gates, bars, rails of a fence, door stones, loose lids of ovens or ashpits, fish in a pond, keys to the doors, and deeds to the land are all fixtures.

The manner or degree of attaching things to premises to make them fixtures is a matter about which there is great conflict in the decisions of the courts. It is not the mere fastening or fixing alone which is to be considered in determining whether a thing is a fixture or not, but the use and nature of the thing, and the intention

of the person who attached it to the premises.

Three things are to be taken into consideration in determining whether or not a thing is a fixture: First, actual annexation to the land, or to something appurtenant to it, like a building or other structure; second, application of the thing to the use or purpose of that part of the premises with which the article is connected; third, the intention of the party who fixed the thing to the premises, to make it a permanent accession or improvement thereto.

When a thing of a personal nature meets these three requirements it is a fixture to the land and goes with it when transferred, unless there be an agreement of the parties to the contrary.

When such things are affixed to land by a mere stranger, without any agreement or understanding with the owner of the land, they become part of the land. Fixtures, and the person who so fixes them, has no right to remove them. They become the property of the owner of the land. If a person erects a building upon the land of another without an agreement with the owner, it becomes real estate and belongs to the owner of the ground.

In their dealings with each other, parties may agree as to what things of a personal nature connected with real estate, shall be considered by them as fixtures, and the law will respect and enforce such agreement. It is only where there is no agreement about the matter that the law must be invoked when controversies arise.

Where a tenant during the term of his lease, makes improvements on the leased premises for his own use and convenience with no intention that they are to remain as permanent improvements, the law rather favors the tenant, and will permit him to remove such things before or at the end of his term, provided he can do so without injury to the leased premises,—that is leaving them in as good condition as they were when he went into possession.

LAW QUESTIONS CONSIDERED.

TENANT'S RIGHTS.

A Subscriber, Palmer, Iowa.—A rented a farm in Iowa from B for four years, beginning the first of March, 1906, and ending on March 1, 1910. In December, 1909, A had a public sale and sold his corn crop in the field to C for so much per acre. After the sale A moved to Dakota. Can the owner of the land, or the next tenant on it, turn his cattle in on C's corn before the first of March, 1910, without being liable to C for damages?

Answer.—The landlord has no right to use the premises he rented to A till March 1, 1910, when A's term will expire. A man cannot rent land and keep it, too. The fact that A moved to Dakota in December does

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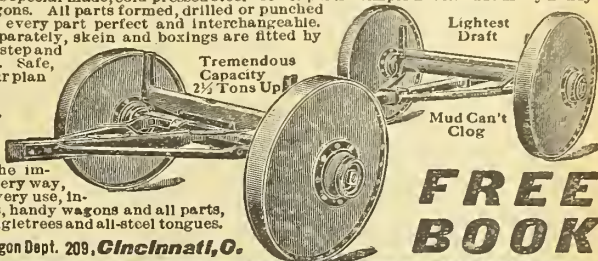
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FREE BOOK

not make his term as tenant expire a minute sooner. If the landlord turns cattle into C's corn or allows a future tenant to do it before March 1, 1910, C can recover damages.

STALLION SERVICE—MOVING MARES.

A Subscriber, Everly, Iowa.—I kept for service in the season of 1909, a Percheron stallion duly registered, with a state certificate of pure breeding, and complied with the law as to posting notices, etc. Stated terms of service were as follows: "Fifteen dollars to insure mare with foal, due January 1, 1910. Eighteen dollars to insure standing colt, due at date of birth. In case owner of mare wishes to dispose of her or remove her from county, it immediately forfeits the insurance in either case." A certain man has several mares in foal by said stallion and intends to move them to South Dakota. Can I compel him to pay the service fees before the mares are shipped out of the state, it being stated on my cards that I am to take no risk on mares in the hands of others, or on moving mares either by road or rail?

Answer.—By your terms of service, moving or disposing of mares bred to your stallion, does not make the service fees become due sooner than they would otherwise do, but only forfeits the insurance part of the terms, hence you could not compel a man to pay fees before shipping the mares, unless

the fees were then actually due, namely January 1st, 1910, or when colt insured to stand, at date of its birth.

COMPENSATION OF AUCTIONEERS.

A Subscriber, Madrid, Iowa.—What per cent of the proceeds of public sales is allowed by law in Iowa as compensation for the services of the auctioneer?

Answer.—Compensation for the services of an auctioneer usually depends wholly upon the agreement made between the owner of the property sold and the auctioneer. When no agreement is made, the auctioneer is entitled to reasonable compensation—what he can prove his services are worth. The law does not fix any certain rate or price for such services.

SHARES OF A COMPANY.

A Subscriber, New Virginia, Iowa.—About four years ago, ten men built a telephone line and paid for it. They decided that the enterprise should be represented by shares not to exceed fifteen in number. Each man took one share and the other five shares were to be sold and the proceeds divided equally between the ten men who started the matter. These ten men formed a company, elected a president, secretary and treasurer, and adopted by-laws and fixed the price of the five shares to be sold at \$10 each, and provided that purchasers of any of the original ten shares should not share in the proceeds of the five shares aforesaid. Purchasers of the original stock are now in the majority and they have decided to vote to allow all holders of shares to share equally in the proceeds of the said five shares. Have they a legal right to so divide said proceeds?

Answer.—The proceeds of the shares sold, can only be divided lawfully according to the provisions of the by-laws of the company.

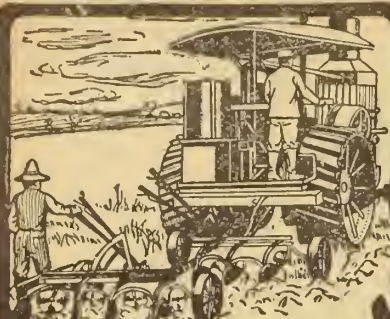
INCORPORATING A COMPANY.

Mr. W. E. Garlock, Grimes, Iowa.—(1) Please state the necessary steps in incorporating a company in Iowa. (2) What is the charge by the secretary of state where the capital stock is \$25,000 or less?

Answer.—(1) Persons desiring to incorporate a company, must adopt articles of incorporation, signing and acknowledging the same, and such articles must be recorded in the office of the recorder of deeds of the county where the principal place of business of the company is to be; and in the office of the secretary of state. The principal place of business of the company must be designated in the articles of incorporation. Notice must then be published for four weeks in succession, in some near newspaper, said notice containing; 1st, the name of the company, and its principal place of business; 2d, general nature of the business to be transacted; 3d, amount of capital stock with times and conditions of payment; 4th, time of commencement and termination of company; 5th, by whom the affairs of the company will be managed and manner of elections; 6th, highest amount of indebtedness allowed; 7th, whether private property is to be exempt from company debts. (2) \$25 and \$1.00 per



Blue Valley Quality 43026, a big type sire which has gotten a very select lot of large-boned, growthy Polanders in the herd of Mr. Thos. P. Walker, of Alexandria, Neb. Several daughters and others bred to him sell in his annual sale at Fairbury, Neb., on February 9th. See advertisement on page 64.



DOES THE WORK 5 MEN & 20 HORSES

For the large farmer the Hart-Parr Kerosene Engine is a necessary economy. Depending somewhat upon the class of work, it will save the labor of five men and twenty horses. For the farmer with a large acreage in oats, wheat or corn, it means dollars in pocket. It is also ideal for plowing, threshing, discing, seeding, harrowing, road-grading, feed-grinding, and shelling or shredding corn. Its OIL COOLED features enable it to operate just as well in summer as in winter. Write us today for illustrated catalogue and testimonials from scores of actual users.

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Furnish
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Getting the most engine for your money does not mean buying the cheapest—but an engine that will give reliable results year in, year out—speed, steady and uniform—absolute interchangeability of parts—actual power, equal rating. Every requirement of the man who wants a simple, reliable engine is met by the

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The successful farmer of to-day KNOWS the exact weight of the supplies he purchases; he KNOWS to a certainty how much the products weigh that he sells. Accurate weights are a big, vital feature in profitable farming. Public scales are expensive, unreliable and often situated at a distance, but every farmer can be sure of perfect accuracy if he owns an

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15,000 BU. EAR CORN

Grind very fine with one set of Rollers and Concaves used in the

"BULL DOG"

Grinds all grain perfectly fine and is very light running, because all work is done only 1 1/2 inches from center of shafts. Sizes, 2 to 60 h. p. Get our catalog.

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FIFIELD GASOLINE TANK HEATER

ABSOLUTELY indestructible from freezing. No ashes, no sparks; heats largest tanks. FIFIELD SANITARY CISTERN FILTER cleans dangerous and dirty water. Cost is small. For circular about both, address C. C. Fifield, Grand Junction, Ia.

thousand on capital stock in excess of \$10,000.

EXPIRATION OF LEASE.

A Subscriber, Rushville, Ill.—A had a written lease of B's farm for a term of years. The lease will expire on the 1st of March, 1910. Some time in September, 1909, B stated to A the terms upon which he would lease the farm for another year, and A said he would not rent it on said terms. Nevertheless A went ahead and sowed some winter wheat. (1) Can B compel A to give up the farm on March 1, 1910? (2) Can A hold the ground he sowed to wheat?

Answer.—(1) B can compel A to give up the farm at the expiration of the term March 1st, 1910. (2) A cannot hold the ground he sowed to wheat, unless B consented to his farming said ground. There appears from the above statement of facts, to have been no contract between the parties reaching beyond March 1st, 1910.

ONE HOMESTEAD—TWO ENTRIES.

A Subscriber, Hereford, Colo.—On July 9, 1908, A made a homestead entry of 154.82 acres in Colorado, this being the part of the quarter section lying within the Denver land district, the balance of the quarter section lying beyond the state line in the Cheyenne land district. On March 9, 1909, A entered the remaining 5.18 acres in the Cheyenne district office, to complete his homestead claim of 160 acres, or the full quarter section. Will this additional entry prevent A from making commutation proof and obtaining patent to his land?

Answer.—It will not, but it would probably be necessary to not make commutation proof till fourteen months after the last entry, and it might require the services of a land attorney to set right the proof of both fractions before the land department of the government.

KILLING VICIOUS DOGS.

An Iowa Subscriber.—My neighbor owns a dog which is constantly coming to my place. He tells my own dog off with him, and they both chase my hogs and would injure or kill them if I did not keep on the watch. My own dog would stay at home if he were let alone by my neighbor's dog. I have complained to my neighbor several times, but he will do nothing. Can I lawfully shoot his dog when he comes to my place without being liable for damages?

Answer.—The law of Iowa on this subject is as follows: A person may kill any dog caught in the act of worrying, maiming or killing any sheep, lamb, hog or other domestic animal—or any dog attacking or attempting to bite any person, without being liable for damages. Besides, the owner of a dog is liable for damages done by his dog. A dog can only be lawfully killed while engaged in some of the acts mentioned,—not afterwards.

INCORPORATING A COMPANY.

A Subscriber, Paullina, Iowa.—We wish to incorporate a farmers' mutual telephone company. Not for profit, but for the benefit and convenience of its members. (1) Can we incorporate the same as a cemetery or fair association without paying a filing fee to the secretary of state? (2) Please state the steps necessary to incorporate such a company.

Answer.—(1) You cannot. A telephone company must be incorporated in the regular way as though it were organized for pecuniary profit. (2) First, adoption of articles of incorporation signed and acknowledged and filed with the recorder of deeds, and secretary of state. Published notice stating name of company, nature of business, officers and various other details as to the organization. Adoption of by-laws. Unless some of the parties have experience in such matters, the services of a lawyer are almost indispensable in getting a company properly incorporated and started off right. But see answer to question of W. E. Garlock, of Grimes, Iowa, for full particulars.

CEMETERY ASSOCIATION.

A Subscriber, Manly, Iowa.—A number of citizens purchased a piece of ground within the limits of an incorporated town for burial purposes. No by-laws were adopted, but it was understood among them that the majority should determine any question that might arise concerning the enterprise. It was voted that owners of lots should either pay the sexton for mowing the grass on their lots and keeping them clean, or they would do so themselves as they preferred. Some of them now refuse to do either and others wait till the weeds go to seed and then mow them down and throw them on the clean lots, and when spoken to about it, use very unpleasant language. Is there any remedy?

Answer.—It is a difficult matter to figure out any remedy for a lot of people who will enter into an important undertaking together and have no rules or by-laws, or anything else to regulate their affairs, except a loose, more or less indistinct general verbal undertaking. The whole thing will probably end in expensive litigation, unless the parties organize and have rules and by-laws to govern them. A better way would be to incorporate, and have regular trustees or directors

to manage the association. As it is the company scarcely amounts to a partnership.

HUSBAND'S DEED, SOUTH DAKOTA.

A Subscriber, St. Edward, Neb.—(1) I bought a farm in South Dakota from B. His wife is hopelessly insane and in an asylum. Can B give me a clear title to the farm without getting an order of court? The farm was not their homestead. (2) Can a married man dispose of real estate in South Dakota, other than his homestead, and give a clear title without his wife signing the deed?

Answer.—(1) B can convey a clear title to the farm without obtaining an order of court. (2) When a married man owns real estate in South Dakota, he can sell and convey a good title to it without his wife joining in the deed.

The Need of Better Barns.

To the Editor of The Homestead:

If he starts out with that purpose in view, no man can take a trip of any considerable distance, either by team, auto or rail, without getting a few good ideas. His mind may travel in such a direction that, at times, he comes into possession of a few theoretical ideas, but a farmer who has kept his nose rather too closely on the grindstone for some years is not given to the acquisition of a great number of theories. He has had stern practice too thoroughly ground into his make-up for that.

It was other business that took me, but I concluded to "kill two birds with one stone," so one morning, not a great while ago, when boarding a train for a ride that took me into three states, I resolved to catch as many ideas as possible from my seat before a car window. The train started at daybreak and I rode on it until noon, hence there was abundant chance to observe many scores of farmers, some of them my neighbors, doing the first half of their day's work. No building or set of buildings seen were alike, consequently all worked under slightly different conditions. Did you ever think of the great diversification that can be wrought by the hand that uses the hammer and saw? Think of this the next time you are carried a few miles by steam, and see how unlike are the houses and barns that appear as a passing show before your gaze out of the car window.

But the thing that struck me with greatest force was the small number of really serviceable and sizable barns. Some of the farms could have been called barnless. I have no doubt the owner himself called it his stable, but many were worthy of that name. I have a deal of respect for the man who builds as well as he can afford. A good stable is better than a poor barn, and until a man can afford to build well, he is wise to stick by the warm old stable.

But on this trip none of the glimpses the car window afforded belied themselves. Their like is in my own neighborhood, and there is no denying the fact that exists—many farmers were well-to-do, but have sheds for barns. The farm's appearance, the comfortable house, the good fences, all indicated this fact. The barn had been left until the last and its building was hanging fire. No doubt many held mortgages on neighborhood farms, but got along with less barn accommodations than those farmers they loaned hard-earned money. This trip took me through a section of the great grain belt of the world, eastern Kansas, northern Missouri and southern Iowa, and the lack of good and sufficient barns on so many farms was indeed a surprise. Can it be that so many good farmers do not comprehend the great value of a good barn?

Several years ago a barn was built on this farm when the owner scarcely felt he could afford the expense of such a building. In a very short time it was proven that it would have been very expensive to have gotten along much longer without the barn. No one who has farmed with only stable accommodations can realize the true daily worth of a barn. Observation of what a barn is saving for others does not seem sufficient to convince the doubting Thomas, but let him build a barn of his own and he sees in a very few weeks where he has missed it for several years by not having a barn to correspond with his needs.

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Send me a card or letter for book right away. I'm going to send out 45,000 of these books to farmers this fall, but I'll get them out promptly. Address FARMER JONES, Fence Man for

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If you have fences to build, trees or shrubs to plant or wells to bore in earth, send for our catalog F.

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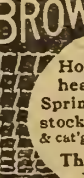


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The Brown Fence & Wire Co.,
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14 1/2 Cents a Rod

For 22-in. Hog Fence; 15 1/2-4c for 26-inch; 18 1/2-4c for 31-inch; 22c for 34-inch; 25c for a 47-inch Farm Fence. 50-inch Poultry Fence 38c. Sold on 30 days trial. 80 rod spool Ideal Barbed Wire \$1.55. Catalogue free.


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STRONGEST MADE. Built strong chicken-tight. Sold to the user at Wholesale Prices. No Pay Freight. Catalogue free.

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small stable, providing it is a warm stable, but one is not fixed for doing chores with the least labor and in the quickest time in a small stable. But the greatest of all is the saving of hay that comes only after there is room enough under roof to shelter it. Along the way I traveled there were hundreds of hay stacks and very few barns large enough to hold any amount of hay. My experience in stacking hay outside leads me to consider the loss of one-fourth by the weather as putting it none too high. This one-fourth is not a total loss, of course, but it is unfit for the horses to eat and much of it does not make what an old neighbor of mine used to call "cattle hay." Think of it, every fourth ton dumped into the stack comes out unfit for a horse to eat! As land advances in price, hay advances with it. The farmer of the future must indeed be prosperous if able to let this loss go on and on, year after year.

The alfalfa farmer has been the first to recognize the value of barn room for his hay. Where alfalfa is grown there you will now find good barns in numbers somewhere approaching profitable needs, but it seems to me the corn-belt farmer still fails to arise to the occasion when it comes to decorating his farm with a proper and profitable barn. Henry Hatch. Kansas.

THE COOK HEREFORD SALE.

The sale of Mr. A. E. Cook, at Odebolt, Iowa, on January 26th, again encountered a severe storm that set in the night before the sale and interfered to a great extent with the attendance. Notwithstanding it, however, quite a number had arrived the night before the sale and the morning trains swelled the crowd until the pavilion was quite well filled. The fact that 108 head were disposed of in one afternoon at an average of \$101.64 is evidence of the success of this second event. The cattle were in good breeding condition and after the sale got well started the bidding was quite spirited. The top of the bull offering was the yearling son of Imp. March On, No. 115 of catalog, that went to Mr. Henry Graff, of Dundee, Minn., at \$1,020, but was afterwards resold to Mr. W. H. Becker, of Sarben, Neb., at \$1,050. Mr. Becker was also a very liberal purchaser of females. Mr. J. Easton, of Merrill, Iowa, was a very discriminating purchaser of the best females and secured some of the choicest cows and heifers that were offered. Messrs. Kloppling Bros., proprietors of the Sandhill Ranch, at Woodlake, Neb., were also heavy purchasers, as were also Messrs. Dan Miller, Spaulding, Iowa; D. B. Dady, Rolfe, Iowa; C. E. Glidden, DeKalb, Ill., and Christie & Powers, Cottonwood, Minn. It is by far the largest number of cattle that has been sold in a one day's sale in recent years, and the outcome was entirely satisfactory to Mr. Cook. On February 22d Mr. Cook will make another sale of 100 head, when he expects to put up another good offering. Cols. F. M. Woods and Fred Reppert were the auctioneers for the occasion, with Messrs. Tequist and Stoller in the ring. Below is a list of sales:

FEMALES.

Marguerite 2d, two years, sire Spec-tator, Dan Miller, Spaulding, Iowa.	\$ 66.00
Helen 3d, eight years, sire Sampson, Ed McDonough, Odebolt, Iowa.	120.00
Countess Lonsdale 9th, eight years, sire Duke of Montrose, J. Easton, Merrill, Iowa.	100.00
Mary Stuart 2d, eight years, sire Sampson, Dan Miller.	77.00
Pylatta, seven years, sire Chesterfield, Charles McDonough, Early, Iowa.	92.50
Belle, five years, sire College Militant, Kloppling Bros., Woodlake, Neb.	115.00
Bohemian, five years, sire Chesterfield, C. E. Glidden, De Kalb, Ill.	105.00
College Maiden, five years, sire College Militant, W. H. Becker, Sarben, Neb.	115.00
Lucile, eleven years, sire Well Done, Dan Miller.	66.00
Elsie, eleven years, sire Patrick, same	112.50
Eva 3d, eleven years, sire Chesterfield, Chas. McDonough.	100.00
Verbena 3d, eleven years, sire Lincoln 2d, Kloppling Bros.	61.00
Julia, ten years, sire Christopher, W. H. Becker.	105.00
Eva 4th, ten years, sire Chesterfield, Dan Miller.	67.50
Clare March On, ten years, sire Imp. March On, Kloppling Bros.	75.00
Empress, ten years, sire Boatman 4th, W. H. Becker.	90.00
Peach 3d, ten years, sire Chesterfield, D. B. Dady, Rolfe, Iowa.	120.00
Cory 6th, ten years, sire Chesterfield, Dan Miller.	67.50
Thora Velta, ten years, sire Prince Archibald, W. H. Becker.	125.00
Miss Rufus 3d, eight years, sire Thomas Finn, R. Aldrich, Schaller, Iowa.	87.50
Blanche Southington, eight years, sire Southington, Alfred Christiansen, Early, Iowa.	105.00
Emeline, seven years, sire Prince Laurel, J. Easton, Merrill, Iowa.	125.00
Fortune Teller, seven years, sire Phil-lipi, Kloppling Bros.	135.00
Benefee 3d, seven years, sire Colum-bus 19th, J. Easton.	125.00
Maria Southington, six years, sire Southington, C. E. Glidden.	80.00
Mountain Stream, six years, sire Dainty Davie, W. H. Becker.	110.00
Linet, six years, sire Sir Cromwell, same.	115.00
Gertrude 2d, six years, sire Sailor, Payne-Cattle Co., Omaha, Neb.	100.00

Lucy March On, six years, sire Imp. March On, C. E. Glidden.	80.00
Primrose, five years, sire March On 25th, D. B. Dady.	125.00
Helen, four years, sire Sailor, Henry Graff, Dundee, Minn.	120.00
Pearline, four years, sire Sailor, J. Easton.	120.00
Freta, four years, sire College Militant, same.	120.00
Gwenie Sailor, four years, sire Sailor, same.	125.00
Rosedale Sailor, four years, sire Sailor, C. E. Glidden.	80.00
Fayette, three years, sire Sir Albany, J. Easton.	75.00
Gladsden, three years, sire Sailor, Fred Middleton, Sycamore, Ill.	72.50
Almartha, three years, sire College Militant, same.	75.00
Fanelle, three years, sire Sailor, J. Easton.	75.00
Flovilla, three years, sire Chesterfield, Fred Middleton.	77.50
Indianola, three years, sire Sailor, same.	67.50
Junius, three months, sire Choice Lad, same.	70.00
Labelle, three years, sire Imp. March On, W. H. Becker.	70.00
Leetonia, three years, sire Sir Albany, Fred Middleton.	71.00
Lefora, three years, sire Sailor, same	71.00
Lenoir, three years, sire Sir Albany, Christie & Powers, Cottonwood, Minn.	77.50
Lightfoot, three years, sire Choice Lad, same.	77.50
Alaya 2d, three years, sire Sir Albany, W. H. Becker.	70.00
Edith Albany, three years, sire Sir Albany, Christie & Powers.	77.50
Marian Albany, three years, sire Sir Albany, Kloppling Bros.	86.00
Augusta Badger, two years, sire Badger, same.	86.00
Venetia, two years, sire March On, H. Christie & Powers.	100.00
Caroline, two years, sire Sir Albany, Kloppling Bros.	86.00
Abbie Sparklet, two years, sire Sir Albany, Christie & Powers.	90.00
Dixie 2d, two years, sire Choice Lad, Fred Einsphor, Odebolt, Iowa.	67.50
Adria Brookmont, two years, sire Choice Lad, same.	67.50
Alma March On, two years, sire Imp. March On, same.	67.50
Almira Bluebell, two years, sire Sailor, W. H. Becker.	67.50
Arkana, two years, sire Choice Lad, same.	67.50
Choice Jessamy, two years, sire Choice Lad, C. E. Glidden.	65.00
Augusta, two years, sire Sir Albany, Kloppling Bros.	65.00
Sylvia Choice Lad, two years, sire Choice Lad, C. E. Glidden.	65.00
Bertha, two years, sire Badger, Kloppling Bros.	74.00
Glare Albany, two years, sire Sir Albany, same.	65.00
Caledonia, two years, sire Brookmont Actor, same.	74.00
Sweet Sailor, two years, sire Sailor, same.	74.00
Meda March On, one year, sire March On H., same.	65.00
Cecile, two years, sire Choice Lad, same.	65.00
Cassie Aica, two years, sire Lord Brookmont, same.	65.00
March On Ada, two years, sire March On H., same.	65.00
Cleoua, two years, sire Badger, same.	65.00
Maudy Albany, two years, sire Lord Albany, same.	65.00
Cory Brookmont, two years, sire Lord Brookmont, D. B. Dady.	85.00
Fannie Albany, two years, sire Sir Albany, same.	85.00
Azola Albany, two years, sire Lord Albany, same.	85.00
May Badger, two years, sire Badger, same.	85.00
Anxies Albany, two years, sire Sir Albany, same.	85.00
Topsy Brookmont, two years, sire Lord Brookmont, same.	85.00
Gay, two years, sire Lord Brookmont, same.	85.00
Ladora, two years, sire Brookmont Actor, Kloppling Bros.	70.00
Larose, two years, sire Sailor, same.	70.00
Laural, two years, sire Sailor, same.	70.00
Leola, two years, sire College Count, same.	70.00
Misa, two years, sire Choice Lad, same.	70.00
Mesilla, two years, sire Choice Lad, W. H. Becker.	62.50
Leclair, two years, sire Theodore, same.	62.50
Rosa March On, two years, sire Imp. March On, same.	62.50
Flewellyn, one year, sire Sir Albany, same.	62.50
Letitia, one year, sire Lord Albany, same.	62.50

MALES.

Sir Albany, eight years, sire Albany, D. B. Dady.	185.00
Choice Lad, five years, sire Sailor, W. H. Becker.	107.50
Sullivan, four years, sire Beauchamp, Kloppling Bros.	132.50
Fletcher, four years, sire Imp. March On, Otto Haslestrom, Hermosa, S. D.	115.00
Burbank, two years, sire Badger, Patrick Timman, Kingsley, Iowa.	125.00
Deforest, two years, sire College Militant, M. J. Jessen, Denison, Iowa.	180.00
Echo, two years, sire College Count, Herb Rash, Odebolt, Iowa.	100.00
Eau Claire, two years, sire Columbus 19th, Frank Jackson, Mechanicsville, Iowa.	132.50
Hamner, two years, sire Imp. March On, W. H. Becker.	240.00
Hamlet, two years, sire Imp. March On, same.	1,050.00
Halleek, two years, sire Brigadier March On, Kloppling Bros.	100.00
Hampden, two years, sire Columbus 1th, Christie & Powers.	205.00
Hallstead, two years, sire Sailor, F. O. Peterson, Galva, Iowa.	157.50
Hamburg, one year, sire College Militant, Kloppling Bros.	130.00
Hamden, one year, sire Brigadier March On, L. J. Hoffman, Merrill,	

Iowa	167.50
Brookmont Lad, one year, sire Sailor, Kloppling Bros.	200.00
Hale, one year, sire Badger, C. H. Frieke, Manning, Iowa.	110.00
Hammond, one year, sire Brigadier March On, Carl Donald, Carroll, Iowa.	100.00
Hamilton, one year, sire Sir Albany, Fred Einsphor.	67.50
SUMMARY.	
87 females ..\$ 7,212.50; average..\$ 82.90	
21 bulls ..\$ 3,765.00; average.. 179.28	
108 head ..\$ 10,977.50; average.. 101.64	

THE SEFRIT POLAND CHINA SALE.

The sale of Mr. Geo. W. Seffrit, of Lucas, Iowa, on January 24th, was well attended and he sold forty-one head at an average of \$43. It was a buying crowd and they seemed eager to buy sows. Mr. Seffrit put up an excellent lot of sows, mostly spring gilts, and the buyers went after them as though they wanted them. It was an even run of prices, there being nothing very high and nothing low. The top was \$70 for a daughter of Surprise Chief 2d and she was purchased by J. A. Voris, of Woodburn, Iowa. Col. Harve Duncan cried the sale and did excellent work. Below is a list of the entire offering:

Lot.	Price.
1. J. A. Voris, Woodburn, Iowa.	\$70.00
2. R. J. Manley, Woodburn, Iowa.	42.50
3. T. D. Ashby, Lucas, Iowa.	47.50
4. Same.	40.00
5. R. C. Carson, Woodburn, Iowa.	50.00
6. Geo. King, Humeston, Iowa.	48.00
7. J. A. Voris.	49.00
7½. G. B. Johnson, Moravia, Iowa.	40.00
8. J. F. Kubie, Woodburn, Iowa.	50.00
9. W. R. Richard, Humeston, Iowa.	43.00
10. O. L. Robbins, Osceola, Iowa.	49.00
11. J. M. Bennick, Woodburn, Iowa.	37.50
12. Sanford Shields, Leona, Iowa.	36.70
13. R. J. Manley, Woodburn, Iowa.	34.00
14. J. F. Kubie.	40.00
15. O. L. Robbins.	38.00

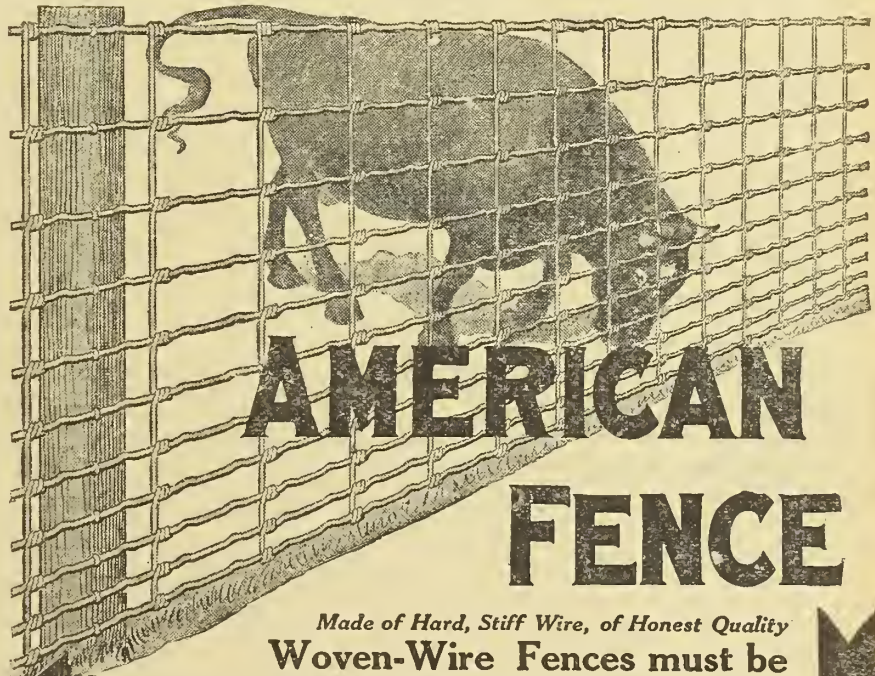

16. E. C. Carlson, Woodburn, Iowa.	43.00
17. T. D. Ashby.	47.50
18. J. F. Kubie.	55.00
19. Same.	61.00
20. J. M. Bennick.	26.00
21. G. L. Ashby, Lucas, Iowa.	39.00
22. J. D. Wilson, Lucas, Iowa.	38.00
23. J. P. Rhodes, Woodburn, Iowa.	41.00
24. J. F. Kubie.	41.00
25. H. G. Boyer, Merville, Iowa.	39.00
26. S. W. Black, Woodburn, Iowa.	31.00
27. J. P. Rhodes.	36.00
28. J. F. Kubie.	44.00
28½. O. L. Robbins.	38.00
29. J. P. Rhodes.	14.00
30. J. D. Wilson.	35.00
31. Sanford Shields.	35.00
32. J. M. Bennick.	34.00
33. Sanford Shields.	35.00
35. J. P. Rhodes.	45.00
36. J. M. Bennick.	10.00
37. O. O. Mitchman, Derby, Iowa.	39.00
38. J. P. Rhodes.	29.00
41. J. D. Wilson.	35.00
42. Morgan Lewis, Lucas, Iowa.	19.00

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This expression and the "Unbeatable Exterminator" are almost as familiar to the public, all over the world, as Rough on Rats, and are our trade marks. Don't allow dealers, because of some interest in, or more profit on, some other article, to substitute anything for Rough on Rats, saying, "it's just as good." Make your money bring you what you want or should have. 15c., 25c., 75c., at druggists.

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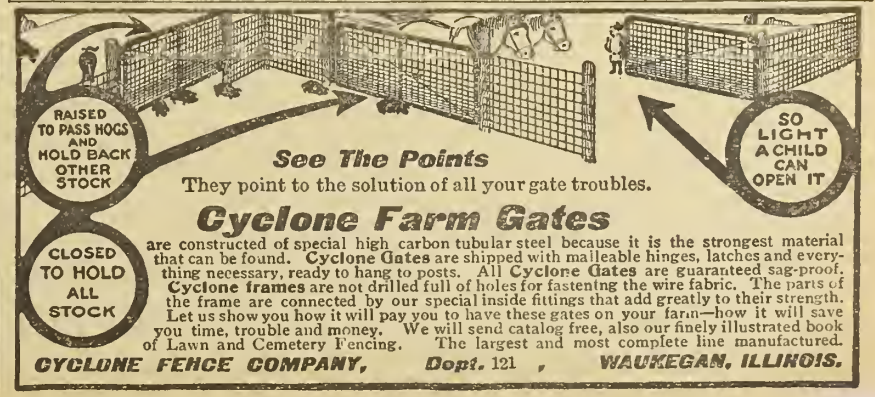
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A fence with barbs is protected from excessive pressure because the animal fears the barbs. Remove the barbs and the greatest strength of the animal is thrown upon the fence. Hence its wires must be larger and stronger. Therefore, to have a longlife woven-wire fence you must have a heavy fence. Among the valuable features that distinguish American Fence is the Hinged-Joint (patented). We back this feature with all our experience as the largest makers of fence in the world. Under sidestress and strain the resilient Hinged Joint yields to pressure and quickly returns to its old form without bending or breaking the stay wires, the strain being taken up by the heavy horizontal bars. The real test of a fence is the service you get out of it. Test, judge and compare American Fence under any and all conditions, and you will find that the steel, the structure and galvanizing are equal in durability, strength and efficiency to the hardest usage.

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NOTE.—Dealers everywhere. See the one in your town and have him show you the different designs and give prices. Also get from him booklet entitled "HOW TO BUILD A CHEAP CONCRETE FENCE POST," furnished free for the asking.



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are constructed of special high carbon tubular steel because it is the strongest material that can be found. Cyclone Gates are shipped with malleable hinges, latches and everything necessary, ready to hang to posts. All Cyclone Gates are guaranteed sag-proof. Cyclone frames are not drilled full of holes for fastening the wire fabric. The parts of the frame are connected by our special inside fittings that add greatly to their strength. Let us show you how it will pay you to have these gates on your farm—how it will save you time, trouble and money. We will send catalog free, also our finely illustrated book of Lawn and Cemetery Fencing. The largest and most complete line manufactured.

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Labels on illustration: RAISED TO PASS HOGS AND HOLD BACK OTHER STOCK; CLOSED TO HOLD ALL STOCK; SO LIGHT A CHILD CAN OPEN IT.

Results of Liming Soils.

To the Editor of The Homestead:

Farmers have been applying lime to certain soils for at least 2,000 years. The elder Pliny, in his great natural history of thirty-seven volumes, tells of the practice of liming soils by the Romans. Liming has also been carried on successfully by English, German and French agriculturists for centuries. Nevertheless, there are farmers here at home who have seen defeat from applying lime to their soils for two years, or even one season. Now, what is the trouble?

Upon looking carefully into such records of failure from liming as are available, it would seem that there are three or four reasons why such failures are met. First: some of the soils do not need lime applied, and even the litmus paper test may be wrong in its findings. Great areas of France and other European countries are granite areas where lime is lacking. The sandstone and granite sections, if any, need the lime applications on their surface.

A second cause of failure may often be found in the methods of applying lime. English farmers have found from long experience that light dressings put on every five or six years are more beneficial than heavy applications at long intervals. Two tons per acre is their idea of a heavy application of lime dressing sown before plowing, and then turned down to the bottom of the furrow will never give the results of an application put on the surface after plowing; for lime will quickly pass downward and, if turned down eight inches at once, will lose itself in the subsoil much quicker than is desired.

Another point in lime application is the mixture with other fertilizers. A note of warning from Dr. E. B. Hart, of the Wisconsin Agricultural College, is timely here and should be well taken. Perhaps few have lost valuable stable manure by mixing lime or wood ashes (33 per cent lime) with them, but an ounce of prevention is worth several pounds of cure. Dr. Hart says:

Farmers need to be cautioned generally against the use of wood ashes and lime with manure. The ashes and lime produce an alkaline condition, resulting in the loss of the ammonia which carries off the nitrogen. This point has not been sufficiently emphasized, and many well-meaning farmers have used ashes and lime with manure to disadvantage. The lime and ashes, if needed by the soil, should be put on in other years than those in which farm manure is applied.

One feature of liming which must be reckoned with is that it greatly hastens decomposition of organic matter, and is certain to release much plant food, which may be wasted if the lime action is too violent or rapid. Hence the argument for very light dressings. Caustic or slacked lime had best be applied in the fall, but carbonates, such as marl or wood ashes can be sown quite safely in the spring, though they should not be put on with stable manure because of the effects already mentioned by Dr. Hart.

Another very important matter in this connection is in regard to the crop which is to follow on land to be limed. In short some crops are directly benefited by the lime application, others are not, and still others are certainly injured by it. This is a valuable lesson to learn. We have the results of several years of experimenting to aid us in this matter. The table, as far as we are able to compile it, embraces the following crops. Those which showed benefits were: Bluegrass, alfalfa and the clovers, timothy, hemp, tomato, barley, wheat, oats, peas, onions, lettuce, wax beans, celery, parsnips, cucumbers, asparagus, muskmelons, cabbage, turnips, (red) raspberry, gooseberry, and currant canes, plum, cherry and elm trees, also pansy, poppy, nasturtium and mignonette plants.

Crops benefited but little by liming are corn, rye, carrots, chicory and red-top. A more even crop of potatoes was obtained, but it was found that liming greatly increased the "scab," so that it was not safe to plant upon limed soils unless the seed tubers were treated with the sublimate solution before planting.

Some crops seemed to be positively injured wherever soils were limed. These were radishes, watermelons, black-cap raspberries, blackberries, cranberries, velvet beans, flax, and spruce and white birch trees. Other crops often injured were cotton, to-

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

BEAUTIFUL and remunerative homes in the famous Payette Valley, Southern Idaho. Nothing better in the Pacific West. Eighty acres, well improved; good six room house, porches and spire; three acres fruit, six acres alfalfa; balance ready for planting to fruit, grain or hay; quarter mile to station; best of water; right for irrigation as well as waste right of way for waste water. No better land in the state. Twenty thousand dollars; will take three to five thousand in income property worth the money in exchange. Forty five acres, well improved; one mile from graded school; small house; twenty-five acres winter apples, bearing; balance ready for fruit or hay; fruit crop well cared for will pay for land in three years and all expenses; all fine land. Price, twenty thousand dollars; three to six thousand taken in exchange if good value. This is an exceptionally fine proposition for fruit; no waiting for trees to grow, but large income at once; in the best state in Union and best portion of state. Well watered; also good waste way. One and one half mile to station. Address owner, A. E. Wood, Payette, Idaho.

1,000 ACRES FARM, 6 miles from Burlington, Kansas; 3 1/2 miles to station on Santa Fe; three sets improvements (value \$10,000); 300 acres under cultivation; 250 acres hog light; clover, timothy and alfalfa; 700 acres blue stem pasture and meadow; lies fine, well fenced and cross fenced; never failing water; fruit all kinds; beautiful lawns; R. F. D., telephone and good school. Will divide in three farms. Must sell soon. Write to day for terms and fuller description to Olive C. Barrett, Route 6, Burlington, Kansas.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$5 per acre; only one fortieth cash, 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands. J. J. Snyder, School Land Locator, 305 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Elmer, Iowa.

FARM for sale by owner. 160 acres in Madison county, Iowa; beautiful location; good buildings; good soil; some good timber; all can be farmed; a fine general purpose farm. \$16,000, half cash, balance 5%. Write for description. O. H. Blume, East Peru, Iowa.

SELL your property for cash in less than 90 days; properties and business of all kinds sold quickly in all parts of the world. Send description today; we can save you time and money. The Real Estate Salesman, H. F. Fink, Bldg., Lincoln, Nebraska.

SEND US your property; we will put you in touch with 500 parties wanting to exchange. Western Exchange, Suite 311 and 312, Scott Thompson Bldg., Oklahoma City, Oklahoma.

IMPROVED Missouri farms; 80 acres up. Priced from \$50 to \$100 per acre. Write for list today. Ed. Eaton, Ridgeway, Harrison County, Missouri.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

500,000 ACRES of good grain land to be had under the homestead act near here; good climate. Address Business Men's Club, Columbus, Montana.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

FOR SALE—Two hundred forty acre farm near Austin, Minnesota; improved; good well, and buildings. E. G. Sachse, Cherokee, Iowa.

FARMERS—write today for lists of Kansas and our new land list. Ford & Smeltz, Enterprise, Dickinson county, Kansas.

BARGAINS in Kansas land. Write for free descriptions and price list. V. E. Niquette, Salina, Kansas.

matoes, Concord grapes, peaches, apples and pears. Lime is also an eternal enemy of the common sheep sorrel.

With this knowledge gained from the results of many trials, it is well to plan for certain crops rather than others to follow the dressing of soils with lime, if it has been decided definitely that lime is needed. In this, as in most other soil treatments, it is better to make haste slowly. It is not necessary to make a rash experiment regarding the use of this sometimes valuable ingredient. Subscriber. Wisconsin.

The fruit growers of New Zealand, after long racking their brains in vain to find some way of getting rid of the small bird pest, recently thought of trying owls, says the Sydney Mail. A hundred small German owls were ordered from Europe, and a part of the order was delivered last September. The owls were liberated in the fruit-growing districts and immediately proved a wonderful success. They killed waxeyes, finches, green linnets, thrushes, blackbirds and sparrows; also mice, rats and young rabbits. They fed their young on caterpillars, grubs and beetles, and their only fault seemed to be an occasional fondness for a barnyard chicken.

Down in Missouri a man ate forty eggs in six minutes. In view of the high price of pork, the Pontiac Leader thinks it is not strange the man wanted to try to make a hog of himself.

Ask your neighbor to subscribe for The Homestead.

REAL ESTATE.

FARM FOR SALE in Devil's Lake region, 640 acres. All good plow land, 500 acres under cultivation. 200 of it plowed; balance pasture. Pasture good plow land, 7 acre grove 35 to 40 ft. high, 3 miles from town. Good 9 room house. Phone. Good barn 50 by 50. Granary with 5 H. P. gasoline engine, elevator, cleaner, machine shed, buggy shed, 18 H. P. gasoline engine and grinder, 2 good wells, pumping gasoline engine. 3 miles from county seat of Benson Co. All goes for \$40.00 per acre. Half cash, balance on time, at 7 per cent. W. J. Fowler, Minnewakan, North Dakota.

RESOLVE that in this year, 1910, you will start out for yourself, and buy a farm in the Hamden district of North Dakota, where great crops of wheat quickly pay for the land. Think of it, choicest improved and unimproved farms, \$25 to \$35 an acre, on easiest terms. Write for interesting, illustrated descriptive literature. See what a little money will do. Active selling agents wanted everywhere. The Shipley Investment Co., Box 303, Hamden, Ramsey Co., North Dakota.

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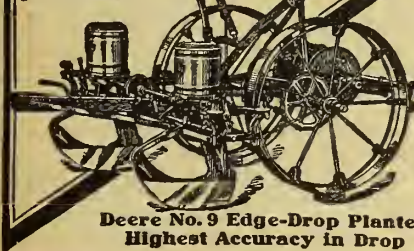
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THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

Sheep and Fertility.

To the Editor of The Homestead:

I venture to say that at no time within the memory of a single person who reads this has there been so much agitation over the question of conserving the fertility elements of the soil as there is at present. One of the leaders in the industrial world in this country points out that it will only be twenty-five years until this country is importing bread stuffs unless some radical change is made in the method of handling the soil. It is possible that Mr. Hill purposely overestimates the seriousness of the situation in order to create a greater interest in the subject to the end that production, with the acre as a unit may be increased.

A recent telegraphic dispatch quotes Sir Horace Plunkett, of Ireland, on this same important topic. Mr. Plunkett has done so much for the agriculture of Ireland that what he says on the great national question ought to be given a patient hearing.

Mr. Plunkett expressed surprise that the warning repeatedly uttered by James J. Hill has not been better heeded in this country. He thought that perhaps we were so much interested in the trusts and in municipal regeneration that we blinked at the sure approach of a more distant but also a more important problem:

I see a rapidly increased cost of living. At the end of a century, there will be a vast importation of foodstuffs into America, if your farming methods are not changed for better. Such a situation calls for urgent action by congress and by state legislatures. As an alien I have no right to say what such action should be, but if I may not prescribe, I may describe.

The system of agriculture in the central West, or that part of it settled thirty years ago, was the most wasteful I ever saw. The so-called farmer is not a farmer, but a land speculator. He went into the country knowing that the land was sure to rise in value. So he bought all the land he could get and then robbed the land to meet his obligations until he could realize his eventual sure profits from a sale.

There has got to be a change. I believe there will come in this country co-operation between farmers—the plan long ago forced upon the farmers of older countries by the competition of the then virgin soils of America. In Ireland, the farmers are getting together for their own good and for the good of the country and they are making a new industrial Ireland.

That is telling it to us literally right to our faces, and it ought to either offend us or stimulate the farmers of the central West to better things. Of course we are too well aware of our own weakness as scientific farmers to take offense.

Live stock is the foundation of it all, but the trouble is that many of the farmers of the grain belt are not naturally skilled stockmen. They can plow, and harrow and plant and are too often contented to haul their raw product to the elevator and let the matter go at that. Indeed at present prices of grain it is very doubtful if much feeding is done at a profit if we consider only the income from the sale of animals. We must not fail, however, to take into account the effect of feeding policy on the soil itself. Grain farmers are getting a tremendously low yield of corn, while it would not be difficult to find scores of farmers in every county who seldom raise less than seventy-five bushels per acre. That increase can only be made by continuing the same policy year after year.

Into any system of live stock raising the sheep fits admirably on the farms of the central West, and it is difficult to understand why the sheep is not as popular as the hog. Sheep farming may be carried on in a number of ways. For instance, to make a specialty of sheep and utilize all the grain and roughage grown on the average quarter section farm by feeding it to sheep would possibly bring a greater income for a series of years than by handling any other class of live stock. Good pasture land will carry from spring to fall anywhere from five to

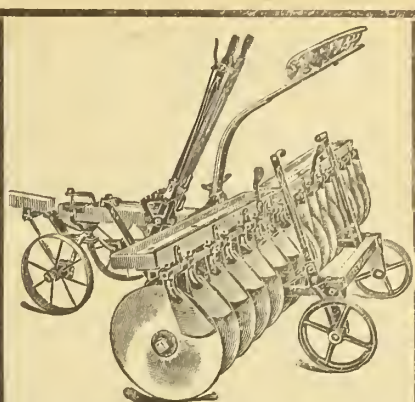
eight ewes per acre together with their lambs, and when you consider that lambs can be made to weigh right around seventy-five pounds by the first of the year the profit in the business is at once apparent. The skilled sheepman considers that the wool of the ewe pays for her care and keep so that you have the lamb produced, without any expense, as the medium through which to market your crop. Of course the number who specialize in sheep and use all their grain and roughage for sheep feeding purposes will always be limited and I merely point out the possibility of making that kind of live stock raising very profitable.

It is possible to make good money following the plan of shipping in yearling ewes from the West, raising one crop of lambs from them, after which the ewes are fattened, when the lambs are weaned, and sent to market. In this case the wool of the ewe also pays for her keep and care while you get a profit on her as a result of the raise in the value of her carcass when fattened. Possibly this phase of the industry will never appeal to a large percentage of our farmers, but, as a matter of fact, it is being carried on by individuals here and there in a very profitable way. The effect of this system on the productiveness of the soil is at once apparent. During the pasturing season the manure is made and deposited where it is needed while the process of feeding out a bunch of lambs adds to the fertility supply with possibly less loss of fertilizing elements than any other method of handling live stock.

Then we have those so-called specialists who are sufficiently expert to handle pure-bred flocks, but to succeed in that way requires superior talent because it involves the keeping of records and calls into play the exercise of superior judgment in the selection of males and in the mating of animals. To the man who will put skill into it, however, it will always give him an interesting and profitable line of effort.

But from the standpoint of fertility the phase of the sheep industry that needs to be especially thrust on the attention of farmers is that which simply involves the keeping of a good farm flock of grade sheep. Let a man start in only with a half dozen or two dozen and let the sheep themselves demonstrate to him what they can do for his land and I venture to say that the number will gradually increase. A small flock can be kept at practically no cost whatever, while a flock of fifty ewes on a quarter section of land will possibly return larger profits for the investment involved than could be realized in any other way.

Coming back now to the great fertility problem, which is agitating the nation, it will in my opinion, be solved not so much by the specialists engaged in any line of live stock husbandry as it will by the general farmer who takes advantage of those principles of economy involved in keeping of all the principal classes of live stock on a single farm. It is wasteful to keep the hog without the steer and the steer without the hog. The dairy cow and the hog go together while the crops of the central West ought to be largely put in and taken off with brood mares. Add to that combination a flock of sheep sufficiently large to add \$400 or \$500 annually to the gross returns from a quarter section and you will have a combination that will in the next quarter century demonstrate to Mr. J. J. Hill or to Sir Horace Plunkett that this country can feed herself and send enough human food abroad which will, with the addition of her cotton crop maintain the balance of the world's trade in our favor. J. A.



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THE IOWA STATE COLLEGE is offering for sale 50 head of pure-bred and grade ewes, mostly Shropshires, at very reasonable prices. Address

DEPARTMENT OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

Pine Ridge Shropshires One thousand ewes bred to the very best imported rams money could buy. These rams are prize winners, personally selected from the best English flocks last July. Prices reasonable. Write for free booklet, "Hints on Sheep Raising." Address owner, L. M. Hartley, Pine Ridge Farm, Salem, Ia.

FIFTY SHROPSHIRE EWES MOSTLY two years old. We wish to sell to make room for more of different breeding, in order to hold our ram trade in this locality. Why can we sell the bunch at a great discount? Well, sell any number. D. M. Norton, Saulton, Iowa.

HOME OF THE OXFORD DOWNS. Flock in its forty-eighth year, and finds the Oxford to be the money maker in the sheep family. Both sexes for sale. T. B. Evans, Geneva, Illinois.

Registered Shropshire Rams and Ewes For Sale. The best of breeding and quality. Best imported rams at head of flock. Willard Miller, Anita, Iowa.

CLOSING OUT SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. W. C. Frazier, Atlantic, Cass Co., Iowa.

TO RENT OR TO OWN LAND--WHICH?

Land Owners Have Been Complaining in Recent Times That Rentals Did Not Made Anything Like a Reasonable Interest on the Investment. One Experiment Station Worker Placed Himself on Record as Believing it a Better Business Venture to Rent Land Than to Own it. The Question Was Submitted to Our Readers for Discussion, and at This Time We are Fortunate in Being Able to Present a Number of Interesting Letters

F. C. MONROE.—In answer to the question, "Is it better to rent than to buy?" I will say, "Buy if you can." Why? Because the United States statistics show that farm land values have increased at the rate of 33-1-3 per cent for each ten-year period from 1870 to 1900, and this in the face of the fact that new lands were available almost for the asking, either by the homestead and pre-emption law, or school and railroad subsidy lands that could be had at a very low figure. If this increase were possible under these circumstances, and we all know that it was so, we must ask ourselves what will be the probable increase from 1900 to 1930 or 1940, with very little, if any, land of any value open to settlement, coupled with the fact that our population is increasing faster than production. The increase for the 1870 to 1900 period, which we of the corn belt know is a low estimate for this district, was equal to 3-1-3 per cent net, per annum, which rate is almost what the average government, railroad or other reputable bonds paid upon the investment, and they are not upon one-half as fine a basis. Railroads and other corporations can fail, a government can even change hands through war, and their bonds depreciate or even become totally valueless, while upon the other hand, land in place, even though the country changes masters, still remains the property of the individual. So correctly speaking, land is the surest asset in spite of the old saying: "As good as a government bond."

And now comes the point that causes some to believe that it is cheaper to rent than to own land. Money secured by mortgage commands right around 6 per cent, while Illinois land that is worth \$150 an acre, rents for a cash rental of \$4.50 to \$5.50 an acre. Iowa land, worth \$125 an acre, rents for \$3.50 to \$4.00, and Nebraska and Kansas land in proportion. Upon the whole, the investment returns to the landlords about 3 per cent upon the investment, after taxes and repairs, etc., are paid.

As an example, suppose that a man rented a farm valued at \$10,000 at the above customary prices. He would pay to the landlord \$300 or \$350, while if it were possible for him to buy this property without any payment, at 6 per cent at the end of the year he would have to dig up \$600 in interest and from \$100 to \$200 in taxes and maintenance. Upon the face of this the landlord is getting a low rate of interest upon the investment—only about 3 per cent per annum—but the interest represented in the increase in the land amounts to from 3 to 10 per cent per annum, plus what the renter pays. This partially explains why cash rents are so low in comparison to amount invested. Now as to a man buying, my advice would be that a man should be able to pay down at least one-half on any place. Then temporarily he is practically in a sense, upon a renter basis, for the interest upon the deferred payments about equals the cash rent he should pay otherwise, but right here he has his own savings bank in the increased valuation, and which, according to observations and facts, is really the only good profit in farming, by the average man. An inquiry into the assets of the retired or so-called wealthy farmer reveals the fact that from 70 to 80 per cent of his wealth came from the increase in the value of his land. We of the corn-belt know that 90 per cent of the farmers retiring to the towns are the original homesteaders. Their quarter section that cost them nothing, and to which they have probably added \$1,000 worth of improvements, sells for \$10,000, and the personal sale necessary nets around \$2,000. The summary shows 70 per cent of their wealth to be from increase in land, 30 per cent from actual farming, plus their living, but with taxes as the only rent.

In conclusion will say that if this is possible with the competition, free

lands, and past conditions, what are the opportunities in land in the near future, with consumption for home needs about equal to production, and the Old World's over-population clamoring for our foodstuffs? Well, draw your own conclusions.

W. L. PINKSTON.—In answer to the question, "Is it better to rent than to buy?" I think it best to buy, and submit the following reasons:

It is a good and a safe investment. Land has almost doubled in value in the last ten years and taking into consideration the increasing population, the tendency toward the farm from the city and from other professions, the continued high price of farm products, and the fact that government land and free homes are almost a thing of the past, I can see no good reason why land should not continue to advance in price. Most other investments may prove a total loss, but though reverses may come and land may depreciate in value for a time, there is no doubt but what the owner of a farm can make it pay all expenses, through panics and hard times, have a living and a home, and when business depression has passed away the farmer will be ready to start in where the panic struck him and move on as though nothing had happened. But on the other hand, in most other lines of business all the accumulations of a lifetime are often swept away in a day. The victim sees all his hopes buried and quite frequently his life is wrecked, and not only his own life, but often hundreds and even thousands of other good men go down in the crash. If a farmer fails, which he seldom does, that is the end of it and no other farmer is affected.

To own your own farm is better for the country. Assuming that it is better to rent, let's see where it will lead. If it is better for one man, then it is better for another and then another

and so on. If better for part of the farmers to rent, then it is better for all, and we are back to serfdom, but if better for all to rent, then the land owner must finally be vanquished. No man could afford to own a farm if the renter got the better of him every year. Again, the owner is a better citizen than the renter, not that he is a better man, but he realizes that he is anchored, cannot run away from trouble and toil. "Where your treasure is, there will your heart be also." He goes to work to beautify his surroundings, he makes permanent improvements, instead of hunting for heaven on earth he tries to make one, and in most cases he succeeds. He builds up his land and makes it richer year after year. Many renters, in fact most of them, try to get all they can out of the land for that year, regardless of the future. When a thief steals a horse he invariably gets scared and rides the horse almost to death so it is never of value again. Now a renter differs from a horse thief, of course, but when he gets started to farming he begins to figure how he is going to come out. He forgets the owner and the farm and thus we have run-down and worn-out farms. I do not blame the renter for trying to save himself, neither do I blame the horse thief for trying to save his neck after he has committed the crime.

No farmer can do his best unless he owns his home. No man can be happy and make others happy and the world brighter and better, unless he can plan ahead. A renter does not know where he will be next year; there is nothing sure in his life; his only hope lies in trying to find the best that other hands than his have made—he seeks the sweetest flowers that other hands have planted and tended, but he seeks in vain—today a little sunshine, but tomorrow the clouds come again. Now he finds a place that he thinks will suit him and on which his fondest hope can be

realized, but only for a few days—the landlord is too exacting, the land has been sapped before. Even if all things were as bright as our dreams picture them, no renter can do as he pleases, he must ask leave to do this or that, he cannot be independent, and therefore, is not free to plan and invent. Doubt is the mother of Sin, and Uncertainty is the tyrant that reigns over the renter, holds him back and grinds him down. Give him a farm and a roof above his head, all his own, and his roving habits are over, contentment smiles in his heart, hope swells in his breast and with beaming face and steady purpose he rolls up his sleeves and enters the contest to achieve all things that mortal man can accomplish.

CHARLES C. YOUNG.—The question, "Is it better to rent than to buy a farm?" is one that is open to a great deal of discussion on both sides. I will write from my own experience and what I have seen of others, and will say that it is better to buy if you are going to follow farming for pleasure and profit. You will certainly agree with me that it is better for the farm, too. I rented a farm for several years, till I was able to own one, and then I farmed it myself for several years. For the past few years I have been renting it out. Therefore, I know whereof I speak on all sides of this subject.

I am living in the corn and hog belt, and here where land is increasing in value very fast, it is best for the practical farmer and stock raiser to own his farm as soon as possible; that is, if he intends to follow farming and stock raising. All good farmers know that a man can do much better on a farm after he has farmed it a while. He knows then what changes to make in his rotations of crops, and can then make a profit off of all fields almost any year. His farm will be made more fertile, year by year, and he being the



LOU BURK.

IMP BY TAYLOR & JONES, WILLIAMSVILLE, ILL.

IMPORTED PERCHERON STALLION OWNED AND FOR SALE BY TAYLOR & JONES, WILLIAMSVILLE, ILL.

owner, can go ahead and make his improvements and beautify it to suit his own tastes with the assurance that when he wants to sell he is going to get double pay for his work and expense. It will be a pleasure and profit to a man and his family, and far safer than renting a farm and investing his money in something else.

On the other hand, what chance has the farmer who rents and has to move every year or two, even at the present low rate of rent? However, this is generally his own fault. The chances are that he will have to rent some worn-out, run-down farm. Landlords are not going to keep up improvements and the fertility, for the low rent they get at this time. A man that rents for a year or two at a time has no chance to raise pure-bred stock, not knowing whether he is going to have a suitable place in which to keep them the following year, and it is a fact that this is the only kind that is profitable on high-priced land. He just simply has to move about and put up with all sorts of inconveniences and be compelled to sell his stock off at times, at a great loss. It is an admitted fact, by our most successful farmers, that the best and most profitable way is to combine stock raising with general farming, as it is the only way to keep the farm in the highest possible state of cultivation. I will agree that rent is too low here in the corn and hog belt, where land has been and is at present increasing in value very fast, while rent is about the same as it always was. You might invest your money in some other way more risky, and more remunerative, but you would be so greatly handicapped by renting that it would be more profitable for you to buy your farm if you intend to follow farming, and when you leave it, sell it.

RICHARD STEPHENS.—I have been farming all my life, have been married thirty-three years and have moved eleven times, and if a man thinks he can sell his home and rent a farm he is putting himself out. I was born in Clark county, Ga., and have been in this state just a year. Land is rich here, but the farmers here do not know how to farm cotton. Let a man who owns his own home, sell it and go to renting a house and see how he likes it. Get your home and then you are all right. Just as soon as I can buy me two acres of land I will do so. A man who sells his land and rents will not try it more than once. Taking it this way, if a man owns a place worth \$10,000 he could sell his farm and put the money out at the rate of 10 per cent and live all right, but the farm has to be tended and if the rich man doesn't tend it the poor man will. I know that I have paid for a farm, in rent. My farm this last year was forty-five acres. I work myself, also my two little boys. I made twenty bales of cotton and 350 bushels of corn. The value of the corn was \$225 and the cotton sold for \$1,225. A third of this gave the land owner \$75 for the corn and \$406 for the cotton. This land was not rich land either, only about half of it.

PHIL STAMATE.—Is it better to rent than to buy? I will answer in the negative for the sake of the betterment of our farms, the improvement of our crops and live stock, and the welfare, prosperity and enlightenment of the average American farmer. In some cases I would not advise a tenant to buy a farm, but it is only rare and it is only when the renter has only very limited means or is well advanced in years and to buy a farm of any consequence would work an additional hardship upon him. He is one among the thousands that have postponed the purchase of a farm until the last ray of hope has vanished, and it should serve as a warning to all honest young men entering upon the life of a tenant, to buy a home. Even the satisfaction that one enjoys by the independence of having a place to live and to call home, warrants a hasty consideration from tenant to landlord by the true American citizen.

Farmers ought to own the land they cultivate, and cultivate what they own. Renters can hardly be called farmers. There can be no such thing as a home, in the highest sense of the word, unless you own it. By buying a farm any

man of moderate means will always be thankful for his investment. Any farmer on a good farm can make more profit than any tenant can on the same kind of land, provided they are of the same business sagacity. The reasons I give should show why one had better own a farm than to rent. The increase in the profit of the landlord over that of the tenant will pay all necessary expenses on his farm and quite a little balance left as payment on his farm. The increase in the value of his farm lands from year to year makes quite an additional value on his real estate. The increase in the value of a good farm from year to year, pays high for his opportunities as the years roll by. The best authorities claim that it will only be a few years until the price of farm land will advance to a prohibitive figure, and persons of limited means can hardly expect to ever own a good farm. Therefore, there is nothing for the future tenant to do but to rent as long as there is land to rent. You see, he is dependent upon the lands of other parties, and I say, from a business standpoint and for the independence of the tenant farmer, that it remains for him to take advantage of the opportunity that is before him and is passing like the old-time price of farm products. Then I would advise the tenant to get a home, beautify it by planting trees, flowers and vines, and after the work of the summer day is over, he can rest securely with his family under his own vine and fig tree, where none dare to molest him.

E. G. HEIDBRINK.—Is it better to rent than to buy? This question is pretty hard to discuss. The farmer or land owner values his land too high. Then when he rents it he thinks he has to have enough rent out of it to pay the taxes on the farm and get enough money to pay him about 7 or 8 per cent interest on the money that he thinks his farm is worth. If he lives in town he wants to get his living out of the farm and if he has a family he cannot get his living for less than \$600 or \$750 a year and he thinks that all of this has to come out of a farm. If he only owns 160 to 200 acres he cannot possibly get any more than a living out of it. This is what puts the rent up so high on the renters. The landlord does not stop a moment to think that the renter has to live and that he has expenses. No renter can afford to give over \$3 or \$4 an acre for the very best of farms. He has too many expenses to make a living and lay a little aside. When he has enough money of his own to buy the place and pay so much down on it, the rest of the money calls for as much interest as he has to pay rent on the whole place. He had better buy the place, for if he doesn't he loses money every day. This is my opinion about renting. I think it is far better for a man to buy land if he can. I am a renter myself, but it won't last long. I am going to buy a farm if it is only five acres. I believe a man cannot better himself when he goes and buys land where it is cheap, in Kansas or Oklahoma, and hold to it, farm it, keep it, get the advance in price and when he gets a big price, let it go and buy some cheap land again. The farmer is the most independent person living, for if he owns a piece of land he can improve it just as he likes. He does not have to go and ask someone else as he would if he were renting. It is his and he can do what he pleases with it. There is nothing to renting a farm when land is cheap and you can afford to buy it. Go where it is cheap.

ED M. ADKINS.—On the question of whether renting or land owning is most profitable, will say that I have a 114-acre farm which I can rent for \$6 per acre, or \$684 in all. From January 1, 1909, to January 1, 1910, I farmed thirty-eight acres in corn from which I got 1,400 bushels. Now corn is worth fifty-eight cents here, which would be \$812. I had ten acres of oats that made 340 bushels, which at fifty cents a bushel would be \$170. From eighteen acres of hay meadow I cut thirty-five tons of hay, which at \$17 a ton would be \$525. My second crop was well worth \$150 per acre, or \$27. In one pasture of twenty-five acres I pastured seventeen

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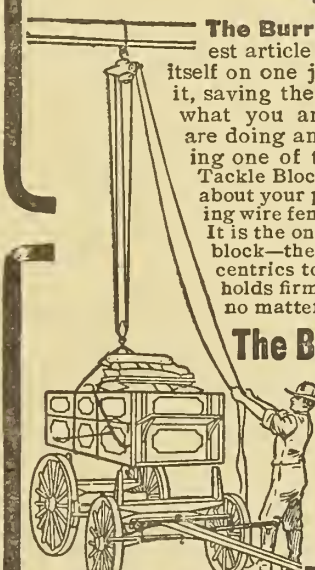
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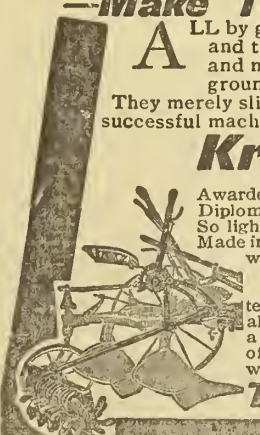
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head of stock for eight months at \$1 per month, or \$136. I also have five acres for orchard, garden and truck which I won't give any estimate on. I kept bees on this plot, and bees alone will annually average \$50, besides chickens, potatoes and fruit, etc. I also have an eighteen-acre hog pasture in which I raised sixty-eight head of pigs and they were worth \$6.50 per head at fattening time last fall, or \$442. My dry stalk field was worth \$40. Now I used 500 bushels of corn to raise my crop on and to feed my pigs, which at sixty cents a bushel would be \$300; three tons of hay at \$10 a ton, or \$30; my horses valued at \$600, or \$42 interest on same; hired help to make hay and such other help as I had to have was \$100; interest on farm machinery and wear and tear I will place at \$150, and taxes \$33. Now my farm is valued at \$150 per acre, which with interest at 6 per cent would be \$1,026. Basing an average of each year since I bought the farm four years ago, for \$75 an acre, it makes an average of \$18.50 an acre each year, and I think it made as much of a raise in 1909 as in any of the preceding three years, which makes \$2,109 raise each year. Now I will say nothing about the expense of living, as that would not be any different either owning or renting.

Now adding \$250 for incidentals and expense of repairs, my income was \$4,261, and my expenses were \$1,931, which leaves a balance of \$2,330, or a balance above renting my farm of \$1,646. I believe I have more clear money than one renter out of a hundred can clear from 400 acres of land. What do you say?

H. W. TURNER.—Regarding the question, "Is it better to rent than to buy?" the first thing to be considered is what is called a satisfactory interest to land owners. We can borrow money on farms at 5 per cent and if taxes are 3 per cent on money, that would leave them 2 per cent interest. Would not most any farm pay more than 2 per cent? I think so. I am speaking from experience, as I rent a farm. The improvements are poor, as generally is the case when a man rents to get a satisfactory interest. So when I rent I am confronted with all this—I must improve his place or plod along in the usual way; he has no hog pasture, no feeders for my small bunch of cattle, no sheds for my hogs, and as usual, no sheds for my milk cows, not even for my wagon. We renters have no assurance of how often we have to move. The old saying, "three moves is as bad as a fire," is true, as there is great expense and a great sacrifice in feed troughs, chicken coops, and many other things. I prefer owning my place, if ever so small, because when I set a corner post it is for me; when I buy some hog fence it is for me, and to stay; my chicken coops are fixed up for me; I can plant the kind of grain I choose; I can plant corn, oats, wheat, rye, coffee corn, broom corn, or millet, and it is all for me and not for the other man. Nor can he get dissatisfied, as is usually the case, and tell you to look for another place. My idea is that I can haul all the fertilizer for myself and not for the next renter. I own my own small home and will give this advice to renters:

Why does Great Britain buy its oatmeal of us?

Certainly it seems like carrying coals to Newcastle to speak of exporting oatmeal to Scotland and yet, every year the Quaker Oats Company sends hundreds of thousands of cases of Quaker Oats to Great Britain and Europe.

The reason is simple; while the English and Scotch have for centuries eaten oatmeal in quantities and with a regularity that has made them the most rugged physically, and active mentally of all people, the American has been eating oatmeal and trying all the time to improve the methods of manufacture so that he might get that desirable foreign trade.

How well he has succeeded would be seen at a glance at the export reports on Quaker Oats. This brand, without a rival, is packed in regular 10c packages, and in large size family packages at 25c.

Better own ten acres than fix up 160 for some landlord.

ALVIS A. AGEE.—I for one think it is better to buy than to rent and I will give you some reasons:

1. A man can do as he pleases. He doesn't have to say anything to the landlord about it.
2. He can make any improvements that he sees fit, to suit his own convenience and his own taste, to take care of his live stock and implements.
3. When it comes moving time he has to get out almost regardless of conditions of roads, weather or health.
4. Moving live stock around is a detriment to them, and moving furniture racks and tears it to pieces more or less.
5. The increase in value of land will more than doubly pay up for the deficiency in the rent.
6. That land investments are the safest investments for anyone.

I know of an eighty-acre tract of land that sold in 1891 or 1892, for \$3,100 and today that same tract is worth \$8,000. With a good crop next year people are predicting \$100 land to increase to \$125 an acre. Does that sound like renting is the cheapest?

LON STEWART.—I believe it is better to buy a farm than to rent, even if you cannot make more than a small payment down on the farm, provided you get a small place with good soil and farm it so as to enrich it each year rather than to leave it in a poorer condition. One great drawback to renting is that you cannot as a rule stay long on the same place and every time you move there is a loss in more than one way. You cannot always rent a farm near the one you were living on and sometimes it necessitates leaving off some part of the crop, causing a loss in this way and also causing the trouble and loss of a general tearing up and moving. Land is getting higher in price each year and rent is getting higher. Money invested in real estate is the safest investment that can be made. The advance in the price of land is equal to the interest, making the farmer a clear profit of all the crops he grows on the farm. A renter doesn't always take care of the farm as the owner desires, causing farms to rent becoming more scarce. The renter cannot take the same interest in keeping up all repairs as if he were the owner of the farm.

In my opinion it is best to buy a place and then you will take more interest in farming and also in making it a more pleasant place to live. Many times a renter has to live in inferior buildings, where if he owned the farm he would have better buildings for himself and better shelter for his stock. Many times when a farm is rented for cash the land is put in the same kind of crop until it is left in a run-down condition which in the end proves a loss to both owner and tenant.

EDWARD C. KROEGER.—Is it better to rent than to buy? I believe if a man has any money he had better buy a piece of land. Even forty acres would do, although eighty would be better. One man could handle that much without much hired help in these times when farm help is so scarce, and that means quite an item. In most parts of this country land is rising in price, which makes it a good investment. As a rule a man will take better care of his own soil, buildings, fences, gates, etc. I think it would be quite a pleasure not to have to move so often as a renter generally has to. There is no surer place to invest money than in land, because it cannot burn up or be destroyed except by washing, and this can be stopped by the owner in most cases. When improvements are needed, such as house, barns, outbuildings, and fences, they could much better be built to suit the owner's needs. A man with a small farm and good machinery is almost independent of hired help.

MRS. W. S. H.—I would like to add a few words in regard to the renter question. I say that it does not pay to be a renter and I speak from experience, both as a renter and a land owner. It is far better for every farmer to own what land he can easily farm than to rent hundreds

of acres to run over and farm about half. I say renters are a drawback to any community, for let him be a good or a poor renter, in driving through any part of the country where farms are rented, nine times out of ten you can point them out by the old run-down buildings, poor fences, no orchards and no forest trees. On the other hand, the renter is not much to blame. He is here this year and gone the next to some other neighborhood. If land is worth renting, it is doubly worth more to own it. If a farmer

owns his land he will farm it better, build up his land and buildings, and set out trees. By all means let the renter buy land as soon as possible, be it ever so small a farm. What better investment could we make than in land? For instance, a man in this neighborhood bought a quarter of land, all in cultivation, when land was cheap, paying \$400 for it. He rented it out for the third and the first year received \$1,100 rent. Of course the renter must live somewhere, but let him buy land as soon as he can. Better

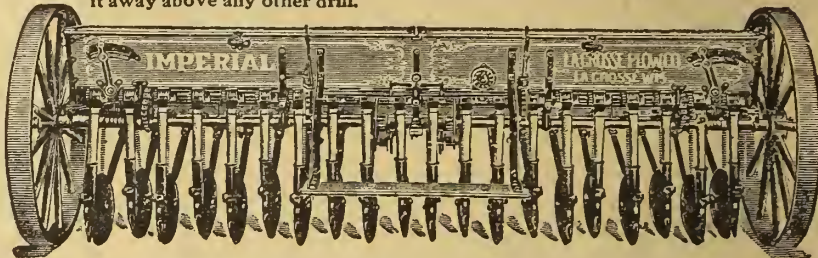
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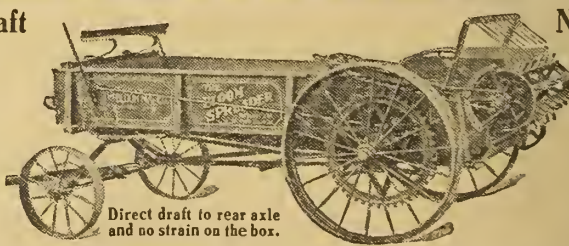
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pay some interest than such high rents, for when a man is paying interest on land, in the end the land is his, and while renting he is always paying the other fellow, with no future hopes.

REPPERT'S GREAT WESTERN SALE CIRCUIT.

(Continued from page 63.)

Wonder for early farrow. There is one Model Chief sow, large, roomy and stands well up on her feet; also one Proud Advance sow, one Crimson Critic sow and fifteen by the great boar, Proud Chief. There are others by Brighton Wonder and Dusty Critic that are all that could be desired. Among the very choice brood sows that are offered is Sunlight, a two-year-old daughter of Glendale Critic, and we think that she is just one of the best sows that will be offered in any sale this winter. She is bred to Glendale Chief and if any man wants a right choice brood sow they will not be disappointed in this sow. Chief Beauty by Ohio Chief, and bred to Brighton Wonder, is another good sow that will bear watching on sale day, and there is a splendid Proud Chief yearling out of a Crimson Critic dam and bred to Jumbo Critic that is good enough for anybody. There is a very excellent fall sow by Proud Chief in the sale bred to Brighton Wonder that is very choice. Then there is a spring yearling by the same boar,

the same breeding as the noted boar, Critic's Echo, and she is one of the good things in this sale. There will be about fifteen daughters of the great Proud Chief in this sale and they are very choice and should be seen by the breeders to be appreciated. They will also close out their entire herd of Short-horn at the same time. This herd of cattle is not large, but there are some splendid young heifers in the bunch and some good cows, most of which will be bred and well along in calf. Write for the Meats catalog and kindly mention The Homestead. Mr. M. T. White, Homestead representative, will attend the sale in person and care for any bids that may be sent in his care. See page 67 for advertisement.

C. W. HUFF'S SOW SALE.

On February 16th, the third day of the Fred Reppert Great Western Circuit, Mr. C. W. Huff, one of the most popular breeders in western Iowa, will make his annual Duroc Jersey brood sow sale, and he is putting up some of the very choicest sows that he has in his herd. Mr. Huff is one of the most popular breeders in western Iowa and he has always bought the best that money could buy. Twenty-five spring gilts will be sold. The herd boars are Kruger Chief by Orion Chief, out of a Kruger dam, a great individual with large bone, fine head and ear, strong back and stands square on his feet. Another boar used is Huff's Advance by I Am Advance, first-prize boar in the aged class at Des Moines, 1907. This herd of sows is the best Mr. Huff ever offered the public. There is one J. D.'s Improver sow in the sale bred to B. & C.'s Colonel, the Iowa and Illinois champion, the only aged sow in the state bred that way to be sold. She is a great sow and you can't go wrong on her. She certainly ought to produce a great litter, and the sows bred to Colonel boars are selling high this year. It was a Colonel gilt that topped Mr. Knapp's sale at \$205, the first sale of the season. One good Valley Chief sow in this sale is bred to Crimson Advance; others by Inventor, champion Illinois, 1907; Iowa Challenger, Lafollette, Tip Top Chief, H. A.'s Choice Goods, Huffman's Advance, Tientsin, Nebraska Belle's Ohio Chief, Savannah Belle's Chief, Buddy's Improver and Guthrie Chief. Here is a list of breeding that can hardly be duplicated in any other one sale. Mr. Huff says he thinks this is as good a lot of sows as has ever come from his herd and he extends a special invitation to the breeders and farmers to be with him on sale day. He says he is wanting a few sows himself and he will not forget the man that comes out and gives him a lift at this time. Write for his catalog and kindly mention The Homestead. Bids sent to Mr. M. T. White, Homestead representative, in Mr. Huff's care, will be properly treated on sale day. See page 67.

JOHN R. TUPPER—FEBRUARY 17TH.

Don't forget Mr. John R. Tupper and his forty head of Duroc Jersey brood sows on February 17th, for if you do you will pass up one of the best breeders and one of the best offerings in western Iowa and one of the choicest bunches of brood sows that will be sold in the Reppert Western Circuit. Mr. Tupper is one of the best fellows in the business and he is selling a class of sows in his sale that no breeder need feel ashamed to buy. Alphonso, one of the best boars in the state, sired by Lafollette, is at the head of the herd. Here is a hog that has made Woodbine famous in the red hog kingdom. His dam is Pansy Advance by Crimson Advance; large, smooth as an apple, very heavy bone and stands on the best of feet. He is the sire of some of the best gilts it has been our pleasure to see this year. He is assisted by Advance Lad by Kruger Lad by Kruger. There will be fifteen tried sows and twenty-five spring gilts sired by Lafollette, Crimson Wonder Again, Model Chief 3d, Kruger Lad, Dunlap Banker and Alphonso. They are of the best of breeding that the red hog herds comprise, every one big, very popular. These are in fine condition and extra good in quality. Mr. Tupper is a man of broad mind and large perceptive qualities and is a great stickler of the red hog. One of the best sows without a doubt is Ohio Anna's Advance. Here is a sow that produced one of the best litters raised in the state this year; bred to Alphonso. Three sired by Guthrie Chief; one out of Ohio Anna Advance; three by Muncie Chief, bred to Alphonso. These are certainly fine in every respect, every one a show prospect. One Muncie Chief gilt is bred to Waveland Colonel, he being the sweepstakes hog at Indiana last year; two by Orion J. and Wilhelmina, one of the grandest sows to be sold either east or west this winter. There are some corking good Muncie Chief gilts in this sale and these should be attractions enough for our very best breeders. No man will make a mistake in sending a bid on some of these gilts. He is also selling one Prince Wonder sow bred to King Wonder and another good Muncie Chief gilt bred to Educator, the splendid boar that now stands at the head of the Floyd Knapp herd. He is also selling Wilhelmina, one of his very best brood sows, bred to Alphonso. His catalog is now ready. Mention The Homestead when writing for it and any bids sent to our Mr. M. T. White, in care of Mr. Tupper, will be attended to on sale day. See page 67.

W. L. HULL—FEBRUARY 18TH.

On February 18th, Mr. W. L. Hull, of Logan, Iowa, will attend to the wants of the breeders and farmers who attend the Reppert Western Circuit, and while Mr. Hull is a comparatively new man in the business he will surprise those who attend this sale with the offering of Duroc Jersey sows that he is going to sell in this sale. One of the most noted boars in the land today heads his herd—Lafollette. This boar is one of the very noted sires of the breed. He is the sire of W. L.'s Choice Goods, which in turn is the sire of H. A.'s Choice Goods, one of the most noted breeding boars today in the state of Iowa. Many of the sows that will be sold in this sale will be bred to this noted hog. He is assisted by Crimson Chief, one of the best sons of Valley Chief ever produced, and we think Valley Chief at the time of his death was the outstanding boar sired by the sire of sires—Ohio Chief. He no doubt stands today one of the best boars Valley

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Southwest *onions* and *tomatoes* have sold as *high* as \$300 an acre. Cotton, cane and garden vegetables all *flourish* there. Rich undeveloped lands in Oklahoma, Texas, Louisiana, New Mexico and Arkansas can *still* be bought on *ground-floor* terms. The right *place* for the right *people*.

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Rock Island Lines

Chief ever produced. There are ten tried sows, four by Duke by Crimson Advance; three by Royal II, one granddaughter of Orion, one Advance Lady by Advancer Lad II, one by Iowa Challenger. Seven fall gilts bred to Lafollette. Here is nearly your last chance to get a Valley Chief gilt at your own price and you can mail a long bid on these, as they are all good and bred to the old king and we consider one of the best crosses that can be made. It is the cross that made Messrs. Sexsmith & Strong's sales a success. There are twenty-three spring gilts sired by such noted boars as Orion J., Pride of the Valley, Golden Boy, grandson of Lafollette; Orion's Success, and Lafollette's Chief. This will be a good offering from end to end and they are in the best of condition. Mr. Hull knows how to produce the good ones. Sale will be held at farm, four miles north of Logan, Iowa. Write for his catalog and mention The Homestead. Bids sent to our Mr. M. T. White, in his care, will be attended to on sale day. See page 67.

E. B. RYAN'S OFFERING—FEBRUARY 19TH.

On Saturday, February 19th, at his farm near Neola, Iowa, Mr. E. B. Ryan, one of the oldest and best-known breeders of Duroc Jerseys in western Iowa, will make a public sale of about forty-five head of Duroc Jersey brood sows and his will be the last sale in the Fred Reppert Western Sale Circuit. Mr. Ryan has long since had the reputation of being one of the largest growers of Duroc Jerseys in western Iowa and he has had some excellent things in his herd. He is selling fifteen yearling and matured sows and the remainder will be spring gilts and he has some good ones in his offering. The boar at the head of his herd is Crimson King, a son of the great Crimson Wonder. This boar has been used in the herd for several years and has proved himself a splendid breeder. In fact, some of the best things that he has in the herd are daughters of this boar. He has also used C. W. Chief, Lafollette's Improver and Model Prince and a few of the sows that he is selling in this sale are bred to a boar called Harlan Chief. Among the good sows that he is selling is a daughter of H. A.'s Choice Goods, bred to Crimson King, and she is one of the best things that he is selling in the sale. Tientsin Belle, a daughter of old Tientsin, is another good sow and she is bred to Harlan Chief, the sire of the fifth-prize pig at the Iowa State Fair last fall. A two-year-old sow bred to Jim Advance is also one of the attractions in the sale and she is bred to Harlan Chief for an early farrow. There is a good gilt in the sale sired by Hager's Kruger Lad and a good granddaughter of Ohio Chief called Daisy I Am, bred to Crimson King. There are two good Alphonso gilts in his offering and two daughters of I Am Advance out of Ohio Beauty by Ohio Chief. You will find that

"The Name Tells a True Story."

Superior Grain Drills are used with success, satisfaction and profit by the most successful farmers in all parts of the world where grain is grown. It matters not where you live, what your seeding conditions are, what seeds you wish to plant, or if you use fertilizers, how obstinate they are to handle, you can get a Superior Drill that will do your work in the best possible manner with the least labor for man and team. Superior Drills must do all that is claimed for them, for they are sold with a plain, honest guarantee that means much to the purchaser. Write today for a Superior catalogue to The American Seeding-Machine Co., Incorporated, Springfield, Ohio. Then go to your retail implement dealer and insist on seeing the Superior Drill. Take no substitute.



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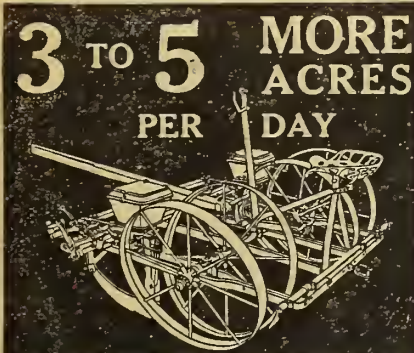


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Mr. Ed Ryan is putting up a good offering in this sale and it behooves the breeders to come out and attend his sale. His catalog is now ready. Write for it and mention The Homestead. You will be able to buy sows in his sale and buy them right. Bids sent to Mr. M. T. White, in Mr. Ryan's care, will be properly attended to on sale day. See page 67.



3 to 5 MORE ACRES PER DAY

You can plant more acres per day with the Hayes than any other planter made. No matter how fast you drive it will always plant your corn in perfect check. It is the easiest handled planter for man and team, the shortest coupled and turns in shortest space.

The Hayes not only saves time and labor but produces a better stand and larger crop of corn.

Because it is the only planter made that will cover all the corn in all conditions of soil. It is the only planter that will plant all the corn at an even depth. It never strings or scatters the corn, nor carries it over in wet or sticky soil. Leaves a ridge over the corn which prevents washouts on hillsides.

THE HAYES Four Wheel PLANTER

drops all shapes and sizes of seed accurately. Never misses, never fails, never cuts or cracks the kernels. Can be depended upon day after day, season after season.

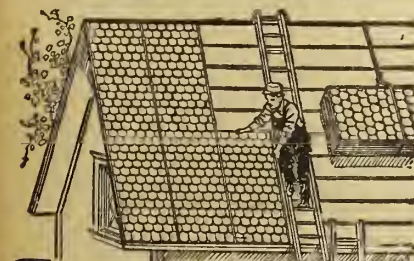
Wheels set at angles, pack dirt at sides, leaving loose ridge on top, allowing young shoots to push through easily. Harrowing levels ridge and saves one cultivation.

Checks with absolute accuracy wherever a team can travel—cross rows straighter than the way you drive. Construction simple. It never gets out of fix.

Get the Hayes. It will save time and repair expense and make your corn crops pay bigger profits. Write for free booklet "F" of planter facts and detailed description of the remarkable Hayes. (1)

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Easy to put on. Need only hammer and nails. No soldering—no tarring. Comes in stamped sheets of finest Bessemer Steel, 5 to 10 feet long, covering width of 24 inches, either painted or galvanized.

Buy at Factory Prices. We are largest makers of iron and steel roofing and pay the freight on all Steel Shingles: Plain, Corrugated, V-Crimp Roofing; Imitation Brick Siding, etc. Write for free catalog 148 and ask about our \$10,000 Guarantee Bond Against Lightning.

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When writing please mention this paper.

Dates Claimed for Live Stock Sales.

ABERDEEN ANGUS CATTLE.

Mar. 10, M. H. Donohoe, Holbrook, Iowa.
 Mar. 11, Wm. Cash, Williamsburg, Iowa.
 Mar. 16, Breeders' sale, M. A. Martin, Mgr., Wall Lake, Iowa.
 Mar. 17, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
 May 31, H. I. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 7, James Williams, Marcus, Iowa.
 June 8, Stanley Pierce and John Evans, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Palmyra, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 20, C. M. Russell, Carroll, Iowa.

SHORT-HORN CATTLE.

Feb. 17, G. H. Burge, Mt. Vernon, Iowa.
 Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Mar. 15, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 April 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
 Apr. 28, Henry H. Kuper, Humboldt, Neb.
 May 20, A. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 21, Jesse Binford & Sons, Liscumb, Ia.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.

HEREFORD CATTLE.

Mar. 1, 2, 3, C. A. Stannard, Emporia, Kan.
 Mar. 16, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 April 16, James E. Logan, Kansas City, Mo.

HOLSTEIN-FRIESIAN CATTLE.

Feb. 19, Gay Stock and Dairy Farm, Madison, Wis.

DUROC JERSEY SWINE.

Feb. 17, Frank Elder, Green, Kan., at Clay Center, Kan.
 Feb. 17, A. W. Lamb, Albion, Neb.
 Feb. 18, A. R. Barnes, Petersburg, Neb.
 Feb. 19, E. B. Ryan, Neola, Iowa.
 Feb. 21, W. C. Cameron, Herman, Neb.
 Feb. 22, R. L. Wilson, Chester, Neb.
 Feb. 23, G. Van Patten, Sutton, Neb.
 Feb. 24, Geo. Briggs & Son, Clay Center, Neb.
 Feb. 25, Con McCarthy, Henderson, Neb.
 Mar. 9, Lien Bros., Platt, S. D.

REPPERT'S WESTERN SALE CIRCUIT.

Feb. 14, E. Z. Russell, Blair, Neb.
 Feb. 15, M. S. Moats, Missouri Valley, Iowa.
 Feb. 16, C. W. Huff, Mondamin, Iowa.
 Feb. 17, Jno. R. Tupper, Woodbine, Iowa.
 Feb. 18, W. L. Hull, Logan, Iowa.
 Feb. 19, E. B. Ryan, Neola, Iowa.

POLAND CHINA SWINE.

Feb. 14, J. H. Hitch, Geneva, Neb.
 Feb. 15, O. N. Remington, Tekamah, Neb.
 Feb. 16, Cavett Bros., Phillips, Neb.
 Feb. 16, Wm. Lentz, Ankeny, Iowa.
 Feb. 17, E. D. Keasy, Wiota, Iowa.
 Feb. 18, Fred Dralle, Struble, Iowa.
 Feb. 24, Ruebel Bros., Marathon, Iowa.
 Feb. 24, Dispersion sale, Mastodon Poland Chinas, W. W. Wheeler, Harlan, Iowa.
 Feb. 25, M. P. Ilaneher, Rolfe, Iowa.
 Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Feb. 26, J. W. Pfander & Sons, Clarinda, Ia.

BERKSHIRE SWINE.

Feb. 15, W. R. Holt, Falls City, Neb.
 Feb. 15, John C. Miller, Harlan, Iowa.

CHESTER WHITE SWINE.

Feb. 24, J. H. Stewart, Dickens, Iowa.

JACKS AND JENNETS.

Feb. 28, J. W. Finley, Higginsville, Mo.
 Mar. 1 and 2, L. M. Monsees & Sons, Smithton, Mo.
 Mar. 3, Petty Bros., Sedalia, Mo.
 Mar. 15, G. C. Roan, La Plata, Mo.

PERCHERONS.

Feb. 17, James Loonan and T. F. Glenney, Waterloo, Iowa.
 Mar. 10, P. W. Moir, Mitchell, S. D.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

Fred S. Larkin, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address 2525 Erskine St., Omaha, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Mr. M. A. Kraschel, of Macon, Ill., will sell King's Col. by King of Cols. and out of a High Chief dam. Mr. Kraschel recently purchased Helen's Chief and can spare King's Col. He is sold for no fault and is priced reasonable. Write Mr. Kraschel for description and price. See page 70.

Attention is called to the advertisement on page 74 in which is announced the dispersion of the Gay Stock and Dairy Farm herd of Holstein-Friesian cattle. The sale takes place of Madison, Wis., on February 19th. The consignment is said to be one of the best lots of the breed ever disposed of at auction in the West and includes twenty-eight daughters of the greatest living De Kol bull, De Kol 2d's Paul De Kol No. 2, sire of thirty A. R. O. cows, which will be included. There will also be fifteen daughters of Sir Johanna Friend Clothilde, sire of sixteen A. R. O. cows, the greatest son of the famous show bull, Sarcastic Lad. Others will be daughters of such bulls as Sir Ormsby Hengerveld

De Kol, De Kol Admiral Paul 2d, Aaggie Cornucopia Pauline Count, Princess Ormsby, De Kol Admiral Paul and Madison Sir Ormsby. Almost every animal is by an A. R. S. sire, has an A. R. O. record, or her dam has an A. R. O. record. All of the heifers have been bred to Madison Sir Ormsby, the greatest of all butter-bred Holstein-Friesian bulls. Every animal has been tuberculin tested. For catalogs write to Gay Stock and Dairy Farm, Madison, Wis.

Mr. S. A. Ensign, of Cleghorn, Iowa, writes under recent date as follows: "My Percherons are in fine condition and doing well. I have recently sold a fine span of mares to Mr. M. McKeever, of Marcus, Iowa. That gentleman, after having traveled a great deal over Illinois, Indiana and Iowa in search of horses, now says that he did not see anything that would equal the mares in my stables in quality, size or bone." Mr. Ensign's advertisement will be found on page 78 and he will be glad to give any required information concerning his Percherons.

CLEAN CLOVER SEED.

Nice, cleaned 1909 crop clover seed at \$9 per bushel, also Richland timothy at \$1.65 per bushel can be secured of Messrs. Maher & Son, Preston, Iowa. See advertisement on page 27.

ARTHUR L. PARKS SOLD OUT.

We are in receipt of a letter from Mr. Arthur L. Parks, of Leland, Ill., stating this paper has sold him out of boars and bred sows. He has some fall pigs by Col's King, a full brother to Chief's Col., the Illinois champion of 1908, and out of sows by Arthur's Choice, Inventor, Proud Advance and Tokio Paul. Mr. Parks leaves this week for Florida where he expects to remain until April 1st. He requests his customers to wait until after that time before writing him about his hogs. See page 70.

O. I. C. BARGAINS.

Mr. I. M. Fisher, the widely-known breeder of O. I. C. hogs, Hastings, Neb., writes as follows: "I have been well pleased with results of boar sales through The Homestead, and want to call the attention of the readers who want the world's best hogs to our bred gilt and sow proposition. We have the quality, breeding and individual merit that makes them money makers. I can make good on these daisy gilts. Nine years' experience in mating and selling gives my customers the benefit of a great amount of experience free. Every hog is registered free." Write Mr. I. M. Fisher, Box H. Hastings, Neb. See page 72.

A CAPABLE AUCTIONEER.

We wish to call the attention of our readers to the announcement of Col. O. L. Mossman, of Mason City, Iowa, which appears on page 65 of this issue. Colonel Mossman is well known to many Homestead readers as a capable live-stock auctioneer and has successfully conducted many of the most noted sales held in recent years. He is thoroughly posted on individual merit and values and is capable of securing best prices for stock offered. If intending to hold a public sale write Colonel Mossman for dates. His terms are reasonable and his work will prove satisfactory. Kindly mention The Homestead when writing.

SUMMIT HERD OF SHORT-HORNS.

Mr. Lee N. Prentiss, of Vermillion, S. D., the proprietor of the oldest and largest herd of Short-horn cattle in the state of South Dakota, is advertising twenty head of good bulls, of serviceable ages, for sale. They are the get of such good herd headers as Prince Lavender, Hugo, he by Klondike; Miniting, he by Barnaby. These young bulls are mostly red in color, a few roan, large in size and of good quality, and are fit to head good Short-horn herds. Mr. Lee N. Prentiss will sell these bulls at very reasonable prices if he can dispose of them soon. See the advertisement on page 74. Write him for prices and descriptions and mention The Homestead.

COOPER'S BIG-BONED POLANDS AT AUCTION.

Col. W. H. Cooper, of Hedrick, Iowa, will sell a select draft of big-boned Poland Chinas at his farm adjoining that city on Thursday, February 10th. This is one of the strongest lots of Poland Chinas that will go through an auction ring this season, and represent the blood lines that have made this breed famous. Not an animal is included that has not been selected with care as to the future results, so that buyers need have no hesitancy in making purchases from this herd. Mr. Cooper will be pleased to send catalogs to all who write for same, as per advertisement on page 69 of this issue. Plan to be present at this sale and mention The Homestead when writing.

FRANCISCO'S BIG POLANDS SELL FEBRUARY 10TH.

Mr. H. B. Francisco, of Hastings, Neb., is selling, on February 10th, fifty head of Poland gilts, without question the strongest lot to be sold in Nebraska this entire sale season. There will be forty head, four tried sows, one fall yearling and thirty-five spring gilts. No one is selling any such sows as Gem's Tecumseh, a Big Tecumseh sow; Naomi's Model by Mogul's Model, and Miss Made Right, the dam of Belle Nettle. The top gilts are eight out of one litter got by Great Hadley, he a prize-winning boar of Big Hadley-Big Tecumseh breeding, that has few, if any equals as a sire of big, smooth ones. This litter is out of Blue Bell by Expander, he by Exception and out of a Chief Justice dam, he by Chief Tecumseh 3d. They are bred to King Mastiff, a first-prize boar by Meese's Mastiff, out of old Lady V. There is not a gilt in the entire litter that is not good enough to go into any good breeder's herd, having abundance of size, heavy bone, short pasterns, good feet, deep, long bodies, good loin, crops, hams and breezy heads. They are just about the choicest litter the writer has ever seen. Naomi's Pansion by Expansion has six by the same sire that give them a close rub for points, although not quite so large. Mid-night Star, litter sister to Great Hadley, has a couple of very strong pigs by Mogul's Model Boy, a son of the reserve champion of 1908, Mogul's Model. The catalog is ready and is complete in details of breeding. We wish to be understood that it is our firm belief that there is not another

offering superior in the state. Breeders and farmers should either be present or represented. Bids sent to Mr. Fred S. Larkin, Homestead representative, will be handled in fairness to all. Get catalog now. See page 69.

DRALE'S POLAND CHINA DISPERSION.

Mr. Fred Dralle, of Struble, Iowa, known as a breeder of Poland China hogs of long experience, has sold his farm and will, therefore, make a dispersion sale of his entire herd. The sale takes place on February 18th. It will include eleven tried brood sows, ten fall gilts and a good number of spring gilts. They will be daughters of Columbia Chief 2d, Pilate's Chief 2d, I Am the Dude and Pilate's Image. Further announcements will be given in later issues of The Homestead.

A NOTED HERD OF GALLOWAYS.

On page 65 of this issue will be found the advertisement of Mr. John C. Gahring, of Marengo, Iowa, breeder of Galloway cattle. This is one of the oldest herds of Galloways in the United States and at this time bulls, heifers and cows will be sold at a reasonable price. This herd is noted for its uniformity of type and the breeding represents the most fashionable families of the breed. If interested in Galloway cattle, write Mr. Gahring for prices and descriptions of stock which he is offering for sale at this time. In writing kindly mention The Homestead. He will be pleased to have interested parties inspect the herd at any time.

A NOTED AUCTIONEER.

We take pleasure in presenting to our readers a good likeness of the noted auctioneer, Col. H. L. Igleheart, of Glendale, Ky. For many years he has been associated with and conducted many of the best sales of pure-bred live stock held in the central states, and his thorough knowledge of pedigrees and values has proven of inestimable value to his employers. At this time he will be pleased to book sales for breeders who expect to hold spring, summer and fall sales. He is capable, willing, and endeavors to please both buyer and seller. In writing him mention The Homestead. His terms are reasonable and his services will prove satisfactory. See page 66.

LEWIS' CHESTER WHITES.

Mr. D. H. Lewis, of Geneseo, Ill., the well-known breeder of Chester White swine, is offering twenty-five bred gilts for sale on page 65 of this issue. These gilts are the top of the entire spring crop of 1909 and are by Neponset Boy by Nashua boy, and he in turn by Combination. Others by Bear's Medium, and he by Fisher's Medium; several by Mike, he by the grand champion, O. K. Mikado. These gilts are bred to a prize-winning son of Lewis R., Bear's Medium and a few to Mike for March and April farrow. It will be remembered that Mr. Lewis was successful in the prize rings at the Iowa, Minnesota and Illinois State Fairs this year and the gilts which he is offering for sale at this time are closely related to the winners of these shows. Write Mr. Lewis for prices and descriptions as per advertisement, and kindly mention The Homestead.

SUNNY SLOPE HEREFORDS TO BE DISPERSED.

On March 1st, 2d and 3d one of America's most prominent herds of Hereford cattle will pass through the auction ring for breeders and farmers to pass judgment on the work of the breeder, who has found the business a source of profit and pleasure. The herd referred to is the famous Sunny Slope herd, owned by Mr. C. A. Stannard, of Emporia, Kan. Mr. Stannard regrets to part with the cattle and the farm, but other interests have so absorbed his time that he cannot give to the herd the personal attention it must have in order that the present high standard of excellence be maintained. The writer has recently inspected the herd and we wish to assure our readers that this will be a sale at which they can procure Hereford cattle of such quality and breeding as will add to their herds. The man who is out to buy a foundation herd cannot do better than here and we desire to have our readers send to Mr. Stannard for a catalog. In future issues more will be said of Sunny Slope, its Hereford cattle, how they are bred, etc.

OGLE'S BERKSHIRE SALE—LAST CALL.

With this issue we wish to call the attention of Homestead readers to the sale announcement of Mr. J. W. Ogle, of Ames, Iowa, which appears on page 72 of this issue. The Berkshires which will be sold on Friday, February 11th, have been selected from one of the best herds in the middle West. There is not an animal cataloged that does not come up to the high standard set by discriminating Berkshire breeders and has been especially selected for this sale with a view to their future usefulness. The boar which Mr. Ogle selected to use in his herd, Premier Belle's Duke, has established a reputation equaled by few, if any, boars of the breed as a prize winner himself and as a sire of prize winners. Premier Belle's Duke, the present herd boar, is a son of the great Premier Longfellow, which was the champion and grand champion boar of the Universal Exposition in 1904, is the sire of many champions and also the sire of more herd headers than any other boar in the world. The dam of Premier Belle's Duke is Premier Belle 51st that sold for \$500 and is one of the best daughters of Lord Premier and out of Artful Belle 30th, the greatest brood sow the breed has ever known, thus making him of the Premier Longfellow-Artful Belle breeding. Premier Belle's Duke, while yet young, has already proved himself to be one of the great sons of his illustrious sire both as a show boar and as a sire of show animals. Baron Duke 154th has been selected to breed to the daughters of Premier Belle's Duke because of the fact that he carries the richest blood lines that any Berkshire boar can carry and because this blood ought to nick well with the blood of the daughters of Premier Belle's Duke. He is sired by Baron Premier 40th and out of Duchess 311th, being a grandson on his sire's side of Premier Longfellow, the king of Berkshires, and on his dam's side, Lord Premier, the boar that has done more for Berkshires than any other boar. By tracing his pedigree on both sides he is found to carry close up to Premier Longfellow, Lord Premier and Duchess blood. Plan to be present at this important sale.

No Silo Is Needed

WRITE us at once for particulars regarding stack ensilage and the method of producing silage without a silo. We can save you hundreds of dollars. Agents wanted.

Stack Ensilage Imp. Co., Northwood, Iowa

The offering merits the attendance of all lovers of high-class Berkshires. Bids sent to Mr. Dante M. Pierce will be properly handled. Kindly mention The Homestead when writing for catalog.

LON HODSON'S DUROC SALE.

On page 68 you will find the advertisement of Mr. Lon Hodson, of New Castle, Ind., calling your attention to his sale of Duroc Jersey bred sows to be held on February 16, 1910. Mr. Hodson will sell about sixty-five head, fifteen of which are sired by and twenty of which are bred to Decatur Boy, the sire of the great Prince Wonder. Three sows are bred to King of Cols. Ideal, the grand champion boar at the Ohio State Fair, 1909. Others are bred to Commodore Special, Golden Rule Col. and Kline's Col. Ideal. There will be one sow by Ohio Chief and one by King of Cols. that are bred to Decatur Boy. Thirty of the sows are yearlings, fifteen spring gilts and a few aged sows. The offering contains the breeding of about all the most prominent boars in the East and as individuals they are all good. Send for a catalog at once which gives the complete breeding of every sow to be sold. This is the last sale of the year in Indiana and if you cannot attend, send a bid to Mr. Carlos C. Palmer, Homestead field man, in care of Mr. Hodson.

L. W. CROSS OFFERS BRED SOWS.

Any of our readers in the market for a bred sow or gilt will do well to write or visit Messrs. L. W. Cross & Son, at Mason City, Ill. They are offering three yearling sows and fifteen spring gilts bred to High Wonder 86201 by Red Wonder, dam Miss Notcher by High Notcher, grandam Orion Duchess by Orion Chief. The gilts are bred to Col. Cross, a good son of Col. S. out of the great brood sow, Lady Cross by Gem's Top Notcher by Top Notcher's Rival and tracing to Sensation. The sows and gilts they are offering trace to the following boars: Proud Advance, Gold Finch, Royal Notcher by Tip Top Notcher and out of Fairview Maid, Menard Sensation by Sensation and out of Tidy Winchester by Winchester Chief, Advancer, Bell Chief I Am and Major R. The gilts are a very uniform lot and you will be surprised to see how cheap you can buy a good gilt bred for April and May farrow. Messrs. Cross believe in treating their customers so that they will come and buy of them again. The productions of this herd have always done good for their purchasers. These will do the same for you. Write for description and prices. See advertisement on page 65.

WAYSIDE SHORT-HORNS AT AUCTION.

On Thursday, February 3d, Mr. Geo. H. Burge, of Mt. Vernon, Iowa, will offer for sale at public auction thirty-five head of Scotch Short-horns, consisting of twenty-five cows and heifers and ten bulls. The bull consignment is the strongest the writer, representing The Homestead, has seen included in one sale, the product of one man's herd, in recent years. Sons of Hopeful Knight and Money Musk, both bulls, state fair winners and sires of state fair winners, and individually of the type that has found favor with progressive Short-horn breeders, are included in this sale, and the opportunity is seldom given breeders to secure such bulls at their own prices. There has never been such a scarcity of herd-heading bulls that have been bred along lines that insured their future usefulness at the present time, and there is not a bull cataloged in this sale that will not come up to the highest standard set by Short-horn breeders. This is a notable sale in every respect, and Homestead readers will do well to write Mr. Burge for catalog as per the advertisement on page 68 of this issue. The females listed are equally creditable and are in calf largely to Hopeful Knight or sired by him. A number of the cows sell with calves at foot, while in numerous instances they have been rebred. Plan to be present at this important sale. Kindly mention The Homestead when writing Mr. Burge.

PETTY BROS.' GREAT OFFERING OF JACKS AND JENNETS.

Messrs. Petty Bros., of Sedalia, Mo., are forcing rapidly to the front as breeders, showmen and handlers of the Mammoth jack that has made the grand old state of Missouri famous as a mule state. These gentlemen last year decided to hold annual sales. Their first, held last March, was a success and on Thursday, March 3d, they will hold another, including the best lot of jacks and jennets they have ever owned. Messrs. Petty Bros. have listed for this sale twenty-five jacks and fifteen jennets. Nine of these jacks stand better than fifteen and one-half hands high, eighteen stand better than fifteen hands high and they have included eight of their 1909 prize winners. Heading these is the great show jack, Tennessee King 2389, that was last year champion and grand champion jack at the Missouri State Fair, the strongest jack show of 1909, fourteen jacks showing. Tennessee King is a three-year-old, a black with meaty points and is a jack that will please the most critical of buyers. He is an evenly-balanced jack, has the great head and ear, the deep body and is as active as they are grown. At the same show Messrs. Petty Bros. won the following prizes on jacks: First, second and fourth on three-year-olds; first and third on two-year-olds; first and second on yearlings and first for five best jacks. Tennessee King and seven of these prize winners are included. The fifteen jennets are a high-class lot and are bred to Tennessee King, Orphan Boy and Tennessee Winner. The sale is to be held at Messrs. Petty Bros.' farm, two miles from Sedalia. They want to mail you a catalog and will be glad to have you come to the sale, see the stock they have to offer, then if it suits you, their

price is yours. See page 66 for their advertisement and when writing them kindly mention this paper.

THE LOONAN-GLENNY PERCHERON SALE.

We wish to call the attention of our readers to the sale of Percherons which will be held at Waterloo, Iowa, on Thursday, February 17th, by Messrs. Jas. Loonan and T. F. Glenn. This is one of the important sales of the year, and the fifty-five head listed constitute an offering which has been bred by the consignors and is largely the get of their own herds. Forty-five mares, ranging in age from yearlings to six-year-olds, mostly sired by Superior, admittedly one of the strongest stallions now in service in this country, or bred to him, are listed. The catalogs are out and will be sent to all who write for same, mentioning The Homestead as per the advertisement on page 77 of this issue. Further information concerning this splendid offering will be given in our next issue. The get of Superior exhibited at the 1908 International was twenty-two prizes, three gold medals and one diploma, and have found ready sale at the hands of critical buyers. Do not miss this opportunity to see this noted stallion and his get.

EAKLE'S DUROC SALE.

One of the most uniform lots of brood sows that the writer, representing The Homestead, has seen this season will be sold in the Duroc sale of Mr. S. E. Eakle, at Prophetstown, Ill., on Tuesday, February 8th. Forty-five have been listed and they include many sows that would be a credit to any herd. They are sired by such noted boars as S. E.'s Model, he by Model Chief, and his dam was Miss Advance by Advance; Golden Model VI, he by the noted champion and sire of champions, Golden Model II, and out of Melbourne Queen, she by Model Chief; Col. Browning, he by the state fair champion, Chief's Colonel by King of Colonels, and out of Proud Fancy by Proud Advance. It will readily be seen from the foregoing that boars representing the leading families of the breed are being used in this herd, and among the number are show prospects that bid fair to be heard from in the 1910 shows. The catalog is out and will be sent to all who write for same, kindly mentioning The Homestead as per the advertisement on page 73 of this issue. Plan to be present at this important sale. Bids sent to Mr. Dante M. Pierce, in care of Mr. Eakle, will be properly handled.

BRIGHTON FARM DUROC JERSEYS.

The advertisement of the Brighton Farm Duroc Jersey herd will be found on page 72. This is the old farm of that veteran breeder, Mr. H. F. Huffman, at Washta, Iowa, who has associated with him his son-in-law, Mr. Chapman, in the continuation of the business. The Brighton Farm now offers for sale a few aged sows and a liberal number of fall yearlings and spring gilts. These animals are descendants from such noted sires as Tolstoi, Pericles, Aehiever, Budweiser (he a son of Pericles). The fall gilts are mostly daughters of the last named hog and Granger C. These sows will have been bred to Budweiser, Walter Model (he by Golden Model 2d, the hog which made such a phenomenal winning at the state fair last fall) and Gen. Moon (he by Crimson Wonder I Am). Messrs. Huffman & Chapman will not make a public sale this year and for that reason are offering these animals at private sale. The herd is one of the oldest ones of the northern part of the state and has a reputation for having produced some of the greatest animals of the breed. The sows now offered for sale are no exception to the high character of those who have made its reputation. For description and prices write to the address given in the advertisement.

BUCK & MILLER'S DUROC SALE.

On Thursday, February 10th, Messrs. Buck & Miller, of Crampton, Ill., will offer for sale at public auction an exceedingly well-bred lot of Durocs that will please discriminating buyers. They are bred to such boars as Prince Wonder Again, he by Prince Wonder, the noted boar formerly owned by Mr. Pan- cake, and out of Helen Model by Ohio Chief; Educator Advance, he by Educator and he by Ohio Chief and out of Helen Blazes, and his dam was Proud Fancy by Proud Advance and out of Lucy Wonder XXI, the last living daughter of Lucy Wonder, and Col. King's Wonder, he by Col. Kink by King of Cols. and out of Raindrop by the many times state fair winner, Perfection Chief. Other sows are bred to Defender, the grand champion boar at the International, 1909, and first at Iowa and Illinois State Fairs. The offering merits the attendance of discriminating breeders and the consignors to this sale are not expecting high prices, but are offering the public one of the best lots of Durocs that will be sold at auction this year. Look up the advertisement on page 73 of this issue and plan to be present at this sale. Bids sent to Mr. Dante M. Pierce will be properly handled. The catalogs will be sent to all who write for same, kindly mentioning The Homestead.

CAMPBELL'S POLAND CHINA SALE.

On the 17th of February Messrs. E. D. Keasy and A. R. Campbell, of Wiota, Iowa, will hold a public sale of Poland China brood sows at which they will dispose of something like sixty head. Mr. Campbell's portion of the consignment will be made up of four aged sows and eleven big, early spring gilts. These will have been bred to King Meddler or Big Duke. King Meddler is a son of Mr. Winn's great Meddler 2d and possesses a great deal of the extraordinary merit that the Meddlers have shown. Among Mr. Campbell's older sows will be several of high quality. One of these is Precious Jewel, a May two-year-old by G's Equal (he by the sweepstakes winning G's Perfection). Her dam was a sow of excellent breeding. She herself is a very large hog with a good back, neat head and ear, strong feet and a No. 1 brood sow. Another is Merry Widow, a last March yearling by Big Jerico, dam a daughter of Chief Perfection. Two big, early March gilts are by Belva Lockwood Chief, he by G's Equal, and their dam Victoria by Corrector. Three other large March gilts are by Clemency, a son of Shamrock. These are good all over and have been bred for early litters to Big Duke. All of Mr. Campbell's hogs are in perfect thrift and good breeding form. They are good for buyers as

FARMERS

I want to give every woman in the states of Illinois, Iowa, Indiana, Michigan, Minnesota, Missouri, Nebraska, Wisconsin, N. Dakota and S. Dakota sending me the names and addresses of 25 farmers who own their land one

NAMES

of my useful presents. Any woman sending a list consisting of more than 25 names will receive a present commensurate with size of list compiled. Add. MARY O'CONNELL, Dept. F., 1322 Wabash Ave., Chicago, Ill.

WANTED

they have been for him. As will be noted by the above lines of breeding they are not only popular, but good. For catalogs giving details of both consignments address either Mr. E. D. Keasy, Wiota, Iowa, or Mr. A. R. Campbell, Wiota, Iowa. See page 68.

HEISEL'S STALLIONS.

Mr. E. J. Heisel, of Fremont, Iowa, breeder and importer of Percheron, Belgian, Clydesdale, Shire and German Coach stallions, writes: "When about to purchase an imported stallion or mare don't be deluded by cunning overtures of unscrupulous salesmen or conspicuous advertisements, as buying stallions or mares upon these principles is like washing a bushel of sand to get half a grain of gold. Mr. E. J. Heisel, of Fremont, Iowa, borrows his business methods from no one, he having a distinct and highly satisfactory way of pleasing and supplying the wants of his numerous customers. He has on hand now some of the finest Percheron stallions and mares, also Shires and Clydes, that ever hit the high road to notoriety. His Percherons are adorned with the traits of the reigning prize winners of the Perche District. Those that he is offering are the bloom of the choicest and are bloods from

136 pigs and saved 104 of them. For the special prices that will be given to early buyers write to Mr. J. S. Kennedy, Blockton, Iowa.

THE M'CULLOUGH & JOHNSON SALE.

On Tuesday, February 8th, as per advertisement on page 72, Messrs. McCullough & Johnson, of Steen, Minn., will make a public sale of Short-horn cattle, at which time they will dispose of fifty head of animals of excellent breeding. The consignment will include twelve cows with calf at foot, nine two-year-old heifers, ten yearling heifers and eight bulls of serviceable ages. Three of the females and two young bulls will be of Scotch strains. One of these is an imported cow and she will sell with heifer calf at foot by Grand Baron. All females of sufficient age will have been bred to Major Mysie. These cattle are of extraordinary good quality, mostly red in color, thick in flesh and very promising. There are no cattle in the offering of extreme age, all being in the prime of their usefulness and of a profit-making character. A representative of The Homestead who has seen them states that he has looked over no better individuals than these. They have been tested with tuberculin and being



GUARANTEED Five Years

Will last a lifetime. Fits every spot. Light, safe, practical. A post card brings full information.

Franklin Taylor Co. JANESVILLE, WIS.

ing. Fillmore Girl, perhaps the choicest sow on the farm has four good, showy daughters by Hadley Chief. Mr. Hitch has grown them well and is offering his best stock and to those who seek first-class stock and breeding here is the place. Write for catalog and mention The Homestead. Send bids to Mr. F. S. Larkin, of The Homestead. See page 66.

LAST CALL WALKER'S POLAND SALE.

In this issue appears our last announcement of the big Poland China sale of Messrs. Thos. F. Walker & Son, of Alexandria, Neb., at Fairbury, Neb., on February 9th. There will be forty head—six tried sows, fourteen yearling and twenty gilts, all bred for early farrow. They are of the usual class of big, growthy, big-boned stuff coming from the Walker herd and have invariably made good in the hands of other breeders and farmers. Messrs. Walker have sold males in nearly every corn-belt state in the past two seasons, and many of them at good prices, and the list of names shows that they are among the leading breeders of those states. This offering of sows is of such a class as merit the patronage of breeders seeking high-class stock. The man who is familiar with big-type breeding will find much to admire in the catalog which shows some forty odd head—six tried sows, fourteen yearlings and the balance gilts, big, growthy, good-boned ones, too. They are all bred for early farrow to First Look, Blue Valley Quality and Blue Valley Ex, a trio of herd boars unequaled in any one herd in the state. One of the attractions is Blue Valley Model, a yearling that is of show-yard caliber for another fall. Her breeding is gilt edge and farrows early. A tried sow and one that has been a money maker for Messrs. Walker is Lady Perfection, the dam of the first prize boar pig at Lincoln, 1908. She is no young sow, but a money maker for someone. Blue Valley Teumseh by Hastings Model, he by Pawnee Chief, is an extra broody sow and a money maker. The offering throughout stands up unusually well on good bone, short pasterns, good feet and the offering will be in but fair flesh. The gilts are as usual, very large and growthy and stand up well on their feet. The catalog gives full breeding details. A mail bid placed with Mr. Fred Larkin, of The Homestead, will secure fair treatment. Kindly mention The Homestead when writing. See page 64.

THE WORLD'S FAIR CHAMPION JACKS REPRESENTED IN MONSEES' SALE.

On Tuesday and Wednesday, March 1st and 2d, Messrs. L. M. Monsees & Sons, of Smithton, Mo., will make, at their Limestone Valley Farm, near Smithton, their thirty-third sale of Mammoth jacks, jennets and registered saddle-bred horses. The Limestone Valley Farm sales have been record breakers and in this their thirty-third sale they have already broken all previous record for high-class jacks and jennets. This may seem a strong statement, but a trip to the farm will convince any and all who have attended the previous sales. One hundred head are cataloged. The twenty head of mature jacks excel in uniformity, quality and breeding, any twenty head ever gathered for one event. Orphan Boy 696, the world's grand champion jack, has been used on twenty head of the best jennets ever seen together. Forty head of the best young jacks and jennets ever seen together are by the two World's Fair champions, Limestone Mammoth 298 and Orphan Boy 696. No such an offering has ever been placed before the people and no firm other than Messrs. Monsees & Sons can make such an offer, as the two World's Fair champions (Limestone Mammoth, at Chicago, in 1893, and Orphan Boy, at St. Louis in 1904,) have never done service except at Limestone Valley Farm. Both of these jacks have proven exceptional sires and for the first time Messrs. Monsees & Sons are able to offer jacks by Orphan Boy and out of Limestone Mammoth dams. In this sale it will be demonstrated that Mr. Monsees is a past grand master in the breeding of the Mammoth jack. Messrs. Monsees & Sons have also maintained one of the best studs of saddle-bred horses in America and these are to be dispersed the first day. Five registered saddle-bred stallions and about fifteen head of registered saddle-bred mares are listed. Heading this stud is Limestone Artist 989 by Artist Montrose, the sweepstakes stallion at the World's Fair held in Chicago in 1893. Throughout the stud is found as richly-bred saddlers as are to be had and had Mr. Monsees pushed his saddle horses as he has the Mammoth jacks they would probably stand as prominent in the saddle horse world as do the Mammoth jacks bred and owned by Messrs. Monsees & Sons. These and the twenty head of aged jacks that sell the first day will make this a big day at Limestone Valley Farm and every lover of good jacks and good horses should arrange to be on hand the first day. On the second day the younger jacks and the great string of jennets are to be sold. This will be the greatest day ever at Limestone Valley Farm, as more sons and daughters of the two world's champions, Limestone Mammoth and Orphan Boy, sell than have ever been offered before. See page 63 for Messrs. Monsees & Sons' advertisement. Send for a catalog, as it is a beautiful book, fully illustrating the Limestone Valley Farm, its Mam-

NEXT WEEK'S SALE PROGRAM

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| Monday,
February 7 | { Duroc Jerseys, John Goddard, Harlan, Iowa.
Duroc Jerseys, Whitehall Farm, Yellow Springs, Ohio. |
| Tuesday,
February 8 | { Duroc Jerseys, S. E. Eakle & Sons, Prophetstown, Ill.
Duroc Jerseys, Watt & Foust, Dayton, Ohio.
Holstein-Friesians, Henry C. Glissman, So. Omaha, Neb.
Poland Chinas, James Cockerton, Whiting, Iowa.
Poland Chinas, F. G. Paul, Marshalltown, Iowa.
Percherons, H. G. McMillan & Sons, Sioux City, Iowa.
Short-horns, McCullough & Johnson, on farm near Lester, Iowa. |
| Wednesday,
February 9 | { Duroc Jerseys, J. B. Davis & Son, Fairview, Kan.
Duroc Jerseys, Ira Jackson, Tippecanoe City, Ohio.
Duroc Jerseys, Sam Stewart & Son, Kennard, Neb.
Holstein-Friesians, Henry C. Glissman, So. Omaha, Neb.
Percherons, H. G. McMillan & Sons, Sioux City, Iowa.
Poland Chinas, C. W. Phillips, New Sharon, Iowa.
Poland Chinas, Thos. F. Walker & Son, Fairbury, Neb.
Short-horns, C. R. Steele, Ireton, Iowa. |
| Thursday,
February 10 | { Duroc Jerseys, Geo. B. Buck and Geo. L. Miller, Crampton, Ill.
Duroc Jerseys, O. S. Larson, Logan, Iowa.
Duroc Jerseys, S. E. Morton & Co., Dayton, Ohio.
Herefords, W. W. Wheeler, Harlan, Iowa.
Percherons, W. S. J. B. and B. Dunham, Wayne, Ill.
Poland Chinas, W. H. Cooper, Hedrick, Iowa.
Poland Chinas, H. B. Francisco, Hastings, Neb.
Short-horns and Percherons, C. R. Steele, Ireton, Iowa. |
| Friday,
February 11 | { Berkshires, J. W. Ogle, Ames, Iowa.
Duroc Jerseys, E. J. Brown, Osceola, Neb.
Duroc Jerseys, Mahan Brothers, Osborn, Ohio.
Duroc Jerseys, O. E. Osborn, Weston, Iowa.
Poland Chinas, R. W. Halford, Manning, Iowa. |
| Saturday,
February 12 | { Duroc Jerseys, A. F. Hager, Avoca, Iowa.
Duroc Jerseys, E. C. Stemen & Son, Middlepoint, Ohio. |

the word go. Taking them as a lot they have the weight, conformation, style, action and last, but not least, their lambs are as clear as virgin amber. Prospective buyers will do well by inserting the name of E. J. Heisel in their memorandum books and looking him up at their first opportunity. Fremont, Iowa, is located on the Iowa Central railway, from Albert Lea; Minn., to Peoria, Ill., and the C. & B. Q. railway, from Oskaloosa, Iowa, to Burlington, Iowa. Mr. Heisel's barns are only a few minutes' walk from either depot." See advertisement on page 78 of this issue.

CHESTER WHITE SOWS.

Mr. J. S. Kennedy, of Blockton, Iowa, announces on page 65 that he has for sale a number of good Chester White sows bred for early litters. A representative of The Homestead visited Mr. Kennedy's farm last week and found the animals offered for sale to be of an unusually attractive character. They are very growthy, well-formed, with especially good feet and well-arched hocks. It has been the aim of the owner to cultivate these latter points and he has succeeded wonderfully well. Most of the sows to be sold are March gilts, daughters of Choice Goods 18505. This is a hog not only of exceptionally good breeding, but splendid individual character. He came from the herd of Mr. J. L. Barber, Harlan, Iowa, and was considered by him one of the very best pigs he had ever raised. His sire was Captain 14119 that was a first-prize winner not only at the Iowa State Fair, but at the Minnesota State Fair, Sioux City Interstate Live Stock Show and reserve champion at the St. Louis World's Fair. The dam of one of the sows to be sold is a half-sister to Choice Goods and she is a wonderfully good one. These sows will have been bred to Major Jr. 19297 or Perfection 26090. Both of these are near approaches to the splendid large type which Mr. Kennedy has been cultivating. Buyers cannot go far wrong in selecting from this lot of sows. They are right and will be priced right. They are also producers. Lady Belle, the dam of five of the sows to be sold, has a remarkable record. She is now eight years old, has farrowed eleven litters aggregating

free from that disease can be shipped to any part of the country without difficulty. The American females are Young Marys, Rose of Sharons and Arabellas. For catalogs write to Messrs. McCullough & Johnson, Steen, Minn. Remember that the sale is to be held on the farm which is two miles north of Lester, Iowa, and five miles south of Hills, Minn.

HITCH'S BIG POLAND SALE.

Mr. J. H. Hitch, of Geneva, Neb., is selling, on February 14th, one of the strongest offerings of Poland to be made in Nebraska this entire sale season. Mr. Hitch has a herd unusually strong in point of pasterns and feet, heavy boned, are very short, broad headed, and as is usually the rule, good bodies are to be found where these points are strong. Hadley Chief by Big Hadley, out of Pawnee Sallie by Pawnee Chief, is a valuable sire that has been used with much success. Several of the choice gilts are by this sire and others are bred to him. A youngster he recently secured is Blue Valley, he a son of Blue Valley Quality, out of Blue Valley Ex by Exception by Expansion Jr. He is a young boar that is bound to make good anywhere. He is a plum good one all round. A number of the gilts are bred to him. The offering is made up of three aged sows and thirty-three gilts, the gilts being of March and April farrow. The gilts are by Hadley Chief and Mastodon 68th and are the kind that grow into big, strong brood sows of the right character. The aged sows are proven sows and are among Mr. Hitch's tops. Belle's Echo is a daughter of Size by Expansion, and a very good one, bred to Hadley Chief for an early litter. She is a large-boned, prolific sow and a good breeder. Perfection Queen is a yearling by McKay Look, he by Grand Look and out of Blue Ribbon, and a fine sow bred for a March litter to the good sire, Hadley Chief. Lady Grace 2d 127238 by Mastodon 68th is a big sow out of Lady Grace by Quality, bred for early March farrow to the same sire. Two outstanding January 24th gilts are by Cap Mastodon 52237 and out of Lady Greenwood, good enough to go in any herd anywhere. She is bred to Blue Valley Major. Indian Creek Belle, a half-sister to Big Victor, is a good one sell-

moth jacks and horses. Also kindly remember to mention this paper when writing for the catalog.

CHIEFTAIN FOR SALE.

Mr. H. Fesseumeyer, breeder of large, prolific Poland Chinas, is offering his herd boar, Chieftain 51221, for sale. This is just the chance some of our readers are looking for, as the price on him is right. Mr. Fesseumeyer is offering a nice bunch of fall pigs, boars and gilts for sale and can furnish pairs not akin at \$15 each for the next thirty days. These pigs are smooth, of heavy bone and out of good sows. See advertisement on page 63.

LAST CALL DAVIS & SON'S DUROC SOW SALE.

One of the best sales of the year to attend to buy good Duroc sows and gilts will be the sale to be held by Messrs. J. B. Davis & Son, of Fairview, Kan., on Wednesday, February 9th, at their farm adjoining Fairview. For this event they have selected forty of the best young things of a large herd. A majority are spring gilts of February, 1909, farrow and a more uniformly good bunch would be hard to find. Those by J. B.'s King of Colonels are particularly good and the sort that breeders may feel proud to own. Messrs. Davis have not listed any that are the kind a man should send to the seales as porkers, as they do not want anyone disappointed in the offering. Throughout the herd is found just as good breeding as is found in the herd books. Protection, King of Colonels, Crimson Wonder, Golden Rule, W. L. A.'s Choice Goods and Kant Be Beat are the boars whose get have done the most to build Messrs. Davis & Son's herd. They have never permitted a poor backed boar or sow to occupy a place in their herd, but have paid particular attention to securing breeding stock with good feet, good heads and ears and, as a result, they offer hogs strong in these points and hogs that have great scale and quality. They desire to send a catalog to all who will send for one. They also extend a cordial invitation to all who are interested in good Durocs to be their guest sale day. See page 74 for their advertisement and when writing them kindly mention this paper.

LAST CALL FOR THE O. E. OSBORN BROOD SOW SALE.

On February 11th, at his farm near Weston, Iowa, Mr. O. E. Osborn, one of the oldest and most noted breeders in the state, will make his annual brood sow sale, at which time he will again put up an offering that is second to none other in the state. There will be ten matured sows and thirty spring gilts in the sale and they are good from beginning to end. These sows will be bred to Model Critic, the best boar sold in the Harding sale last fall. This boar was second-prize boar at Lincoln in strong company and with the exception of one little crease in his neck is just as good a boar as there is today in the state. He is also using Proud Commodore out of a Proud Advance dam, and Crimson Chief, a son of Crimson Wonder Again, and the entire offering are bred to these three boars. There will be two good Ohio Chief sows in his sale and these are bred to Model Critic. There are no better than these and they are fit to go into any herd. There are several good daughters of Baxter's Buddy 3d and two fall yearlings by Crimson Critic. Others are sired by Crimson Critic, Crimson Wonder Again, Crimson Wonder 3d, Lafollette, Protection Again, and there are quite a number of granddaughters of old Ohio Chief in the sale. One of the extra good sows that he is selling is Lady Browning and she will be No. 1 of the catalog. She is a daughter of Buddy K. IV. and is out of a Proud Advance dam. She is a cracking good sow and she is bred to Model Critic for an early litter. We don't know of a better nor a more reliable breeder of Duroc Jerseys in the state than Mr. O. E. Osborn. We have done business with him for many years and we can recommend him and his offering to those of our readers who are wanting Duroc Jersey brood sows. Write for his catalog and be sure to go to his sale. Mr. M. T. White will represent The Homestead at sale time. See page 68.

FRANK ELDER WILL SELL A GREAT STRING OF DUROCS.

On Thursday, February 17th, at Clay Center, Kan., Mr. Frank Elder, of Green, Kan., will make a sale of forty-two head of Duroc sows, gilts and boars. Mr. Elder is truly giving the public a chance at as good Durocs as he owns. He is making in this sale an absolute divide of the herd. This fact is emphasized by the decision to sell G. C.'s Col., one of the great Colonel boars that head the herd. G. C.'s Col. was got by old King of Cols. and out of Chapin's Queen by The Chief, he by Ohio Chief. King of Cols. II, was by old King of Cols. and out of Ohio Chief G. D. by Morton's King and out of a daughter of Ohio Chief, making the two hogs more than half-brothers in blood. Mr. Grant Chapin was never exactly satisfied as to which boar was the better breeding boar and when arranging for this sale Mr. Elder reluctantly put G. C.'s Col. in, as he cannot use both boars. How he will sell or to whom is a question, but the buyer, who ever he may be, may rest assured that he has as good a breeding boar as is found in the King of Cols. tribe and there are top notchers among them. Mr. Elder also makes an even break in the mature sows, as he does not care to keep over twenty sows for spring litters. There are among these as good as the herd ever contained and all who know the herd know that is made up of as great a lot of individuals as are found and that everyone is royally bred. The twenty-two gilts are out of the best sows on the farm. They are the choice of the year's production, are by King of Cols. II, G. C.'s Col., a grand young boar of the Crimson Wonder tribe, and a Pilot Wonder. They are bred to these boars for early March and April litters. The men who buy Mr. Elder's Durocs will be the gainers, as they are the sort that make good. Mr. Elder entered the Duroc breeders' ranks a little over a year ago. He knew the hog raising end of the business to the minutest detail and has in this lot of hogs as good as the breed affords. They are to be sold the breeders and farmers are to set the values and appreciation of Mr. Elder's efforts as a breeder. He invites all who are interested in good Durocs

to be with him sale day, look the hogs over then if they please you buy. Your price is his. The writer who has had much experience among the herds says to the readers of this paper that Mr. Frank Elder has the goods and will offer such a draft as will add to and improve most any herd. See page 63 for Mr. Elder's advertisement. Send for his catalog and kindly mention this paper when doing so. Mr. A. T. Cole will represent this paper at the sale.

HOLT'S PRIZE-WINNING BERKSHIRES AT AUCTION.

On February 15th, Mr. W. R. Holt, of Falls City, Neb., will sell forty head of bred sows and gilts from his famous line of prize-winning stock. Mr. Holt has been a very successful breeder and showman, has entered the strongest shows and come away with a goodly percentage of the ribbons and has done it always with stock of his own breeding. Now he is offering for the first time a chance to the buying public to come and inspect his farm, his herds and buy if they wish at their own price. In that forty head there will be two three-year-olds, six two-year-olds, sixteen senior yearlings and the balance spring gilts. Mr. Holt has always had lots of scale and quality and this offering will be found to be very strong in those essentials with unusually good hodies, short pasterns and above all, a lot of heads that can hardly be duplicated. Very short, well-dished and broad heads prevail. In fact, they are very true to type. The yearling and two-year-old sows are granddaughters of the world's champion, Premier Longfellow, being sired by Longfellow Premier 100000, the boar that headed his prize-winning aged herd all over the circuit of 1908. Then there will be gilts that are either daughters or granddaughters of Longfellow's Premier. The offering will not be fat, but in plain condition and show well along in pig. They are bred to Matchless Premier 118373 and Baron Duke for the most part—a couple of boars that will be heard from again from the Holt Farm. The announcement appears on page 64. Catalog which is complete with all details may be had upon application at once. Bids should be sent to Mr. Fred Larkin, of The Homestead, and they will be handled fairly.

LARSON'S DUROC JERSEY SOW SALE FEBRUARY 10TH.

On the above date, at Logan, Iowa, Mr. O. S. Larson will make his annual bred sow sale, and he is going to put up another good offering that the boys will all want. He will sell forty head, twelve yearlings and bred sows sired by Commodore, Buddy K. IV., Lafollette, Belle's Chief I Am, Iowa King M. and Advance Lad. The gilts, twenty-eight in number, are sired largely by that noted prize winner, Orion's Success. This boar won first in under-year class in 1907 at the Iowa State Fair. Mr. Larson has a great lot of gilts sired by him; smooth, good feet and great size and stretch. Others are sired by Fancy King, a boar Mr. Larson used for several years. This boar was a stunner when it came to siring Durocs with quality. He crossed with wonderful results on the Orion Success sows. There are several of these in the sale. Mr. Larson has that good junior yearling that Messrs. Allen and Van Nice showed at Iowa and Nebraska the past year. He won fourth at Iowa and third at Nebraska. This boar is Crimson The Wonder and is by the champion boar, Crimson Wonder Again. He is a good one, with heavy bone, good back and is heavy hammed. This boar looks a good prospect for the aged show next year. An other good boar is King The Colonel by King of Colonels. This boar is a brother to Harding's King of Colonels. He is a cracking good one, has a very strong back and is smooth. He has the size that goes with the King of Colonels boars and I believe will prove a good breeder. This Colonel boar of Mr. Larson's is, we think, one of the best Colonel boars that we have yet seen in the West and a sow bred to him will not be a bad proposition for the breeders to take hold of. Write for a copy of the Larson catalog and kindly mention The Homestead. Bids sent to our Mr. M. T. White, in care of Mr. Larson, will be properly treated on sale day. See page 70.

LAST CALL FOR JAMES COCKERTON'S BIG POLAND CHINAS.

On February 8th, at Whiting, Iowa, Mr. James Cockerton will again make a public sale of forty-eight head of big-type Poland China brood sows and those who have seen this offering pronounce it one of the very best that will be sold in the western part of the state this winter. In our last week's issue we went to some length in describing the various sows that he is selling in this sale and we are going to leave it to our readers this week to write and get his catalog for a fuller description. We are going to say, however, that if you want some of the blood of old Standard Chief 2d you will have to get it in the Cockerton sale. The old boar has been sent to market and this is about the last time that one will ever have of buying daughters of his in a public sale. A large per cent of the offering is sired by Standard Chief 2d, Winning Dnde and Dorr's Teumseh, and he is selling sows in this sale that will look good in any herd. Size and quality with big bone is the type that Mr. James Cockerton is raising and selling and this is the kind that you will find in his sale on the above date. In his announcement he says of this offering: "In presenting to you this catalog of our third annual sale of Poland China bred sows, to be held February 8, 1910, it is with a feeling of pride that I come before you with as good a bunch of big-boned sows as I ever offered. The offering will consist of five tried sows, twenty-four fall yearlings and nineteen head of spring gilts. You can see for yourself that the breeding is good enough to suit any big-typed hog man. They have been fed for the benefit of the buyer. They have been raised on a clover pasture and have had the run of the entire farm this winter. Their feed has consisted of oats, shorts, some meat, meal and corn with all the alfalfa hay they want. Come to the sale and look these sows over; also look the boars over they are bred to and see if you do not want to put one in your own herd. I do my own breeding and feeding. I extend to one and all a cordial invitation whether you want to buy or not." Write for

P & O CANTON LISTERS

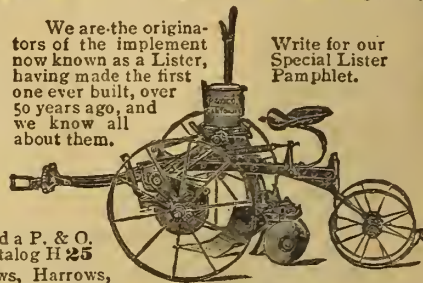
We build the whole Lister family—Single, Combined, Walking and Riding, Two Wheel and Four Wheel, With or Without Tongue, and Double Row; Flat Drop or Edge Drop, Corn or Cotton Hoppers, with Shovel or Disc Covers, and with all styles of Subsoilers—altogether the largest line of Listers made by any factory on earth.

The P. & O. Tongueless Lister is the latest addition to the Lister Line, and it has all the latest features in Lister construction. Tilling Corn Hopper so that plates can be changed without removing seed; removable Cotton Hopper. Sight feed, and simple hand throw-out for stopping plates. Bottom enters ground and leaves it point first, and retains same suction regardless of depth. No chain tightener is needed. Wheels are heavy and have removable boxes. Adjustable in or out on the axles. Rear wheels have scrapers, and the wheels can be locked for transporting.

The P. & O. Canton Line of Lister Cultivators is large and complete—including every style—Single and Double Row, Wheeled and Sled.

A Beautifully Illustrated Pamphlet, and a P. & O. Catalog, will be mailed free. Ask for Catalog H 25. Insist on getting P. & O. Canton Plows, Harrows, Planters, Listers, Cultivators, Beet Tools, etc., from your dealer.

Parlin & Orendorff Co., Canton, Ill.



We are the original of the implement now known as a Lister, having made the first one ever built, over 50 years ago, and we know all about them.

Write for our Special Lister Pamphlet.

his catalog at once and mention The Homestead. Bids sent to our Mr. M. T. White, Homestead representative, in care of Mr. Cockerton, will be properly attended to on sale day. See page 70.

REMINGTON'S GREAT POLAND CHINA SALE.

On February 15th, at Tekamah, Neb., our old friend, Mr. O. N. Remington, will make his annual sale of big-type Poland China brood sows, at which time he is going to put up one of the best offerings that will be sold in the state this winter. There is no better breeder nor no better herd than is owned by Mr. O. N. Remington. This is a pretty strong statement, but we mean what we say. We have known him so long that memory reaches not back far enough. The first time we remember of meeting him he was at that time trying to breed the bristles off, and from that time on he has been an improver of the breed. He is selling forty head in the coming sale—about half and half—and they are a good lot from one end to the other. Included in this sale are most of his old reliable brood sows, among which is his great sow, Lady Wonder 6th, a daughter of old Chief Price. She is a sow that has weighed over 900 pounds and many of her sons are now heading good herds. He is selling four of her daughters in this sale. One of these is a yearling and the rest are spring gilts. You cannot go far wrong on any one of these. He is also selling four daughters of his old boar, Tecumseh Ideal, in this sale. This boar was one of the greatest sons of old Chief Tecumseh 3d and he remained in the Remington herd until he died and he was one of the greatest breeding boars in the state and the West. A great deal of the blood of old Tecumseh Ideal remains in the herd and much of it will be sold in this sale. These sows will be bred to Big Hadley's Model, Model Tecumseh, Ideal Tecumseh, all boars now used in the herd. He is selling some splendid fall and yearling sows sired by Big Hadley's Model, Chief of All and Tecumseh's Ideal. He is also selling a good daughter of old Mogul, a noted winner at the Nebraska State Fair. In our next week's issue we will describe the various individuals that he is selling in this sale. His is a high-class offering and his catalog should be in the hands of every lover of good Poland Chinas. When sending for it kindly mention The Homestead. See page 63.

GODDARD'S DUROC JERSEY SOW SALE.

On Monday, February 7th, Mr. John Goddard, Harlan, Iowa, will make his annual public sale of Duroc Jersey brood sows and he will sell an offering of forty head that are second to none, both in the way of breeding and individuals. No breeder in the West has bought any better foundation stock than has Mr. Goddard, and now he has something in turn that should attract breeders from all corners of the West. At the head of the Goddard herd are two splendid boars in Massena Chief, a litter brother to the great Valley Chief, and Goddard's Colonel, a son of the great Prince of Colonels. He has as sire the king of all the Colonels. This boar's dam is by Ohio Colonel by Ohio Chief. Thus he has the blood of two of the greatest Durocs of the age. He is a half-brother on his sire's side to Muncie Chief, B. & C. Colonel and King of Colonels. This boar is a junior yearling and was considered the best Prince of Colonels junior yearling in the East. Mr. Goddard paid a long price for him and he is worth it. He has size and very heavy bone, is one of the best hammed hogs in this section of Iowa. He is extra good of his feet. We look for this boar to be a great sire. Mr. Goddard is also using Kruger Advance, the sweepstakes boar at the Shelby County Fair, 1909. He also won sixth as junior yearling at the Iowa State Fair, 1909. He is by Kruger Lad. These good boars should make a sale for most any breeder, for a sow bred to any one of them is bound to be a good investment. But Mr. Goddard is not offering you a common lot of sows. Let us say right here that they are one of the top lots of sows you will find in Iowa. Mr. Goddard has, we believe, as much size in his herd as any breeder in Iowa, and that's what counts now. There will be some splendid sows in his sale and among these will be daughters of the great Valley Chief, I Am Advance, Golden Model 2d, Lincoln Top, Kruger Lad, Mischief Maker, Lafollette, Muncie Chief, Iowa Chief, Ohio Chief, Claremont's Model, Chief's Colonel, Crimson Wonder Again, Prince Wonder, Tientsin, Harlan Chief, Mulberry Wonder and Advance Chief. If you want something choice write

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The live, hustling, responsible kind, men who are acquainted in their territories. To such men I will make a proposition that beats anything ever offered. Experience not necessary. You may be a hardware merchant or an implement dealer. If you have retired from the farm or have rented it—or you have any spare time on your hands you can turn it to profitable advantage—make \$1,000 to \$3,000 in a few months like many of my other agents.

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Geo. M. King, Pres., King Manufact'g Co., 600 E. Walnut Street, Des Moines - Iowa.

for Mr. Goddard's catalog and then go to his sale. Bids sent to our Mr. M. T. White will be attended to on sale day. See page 70.

LAST CALL FOR SAM STEWART'S DUROCS.

Mr. Sam Stewart, of Kennard, Neb., sells forty head of bred sows and gilts February 9, 1910, at his hog farm, six miles west of Blair, four miles north of Kennard, Neb. He is selling all his prize-winning sows that won at Lincoln, and boys, they are a great bunch of red ones. Chief Advancer is one of his good producing boars, by Dixie Chief 2d by Ohio Chief. His dam, Dixie Belle, is a half-sister to Barbara Queen, sweepstakes sow at Iowa, 1908. This dam of Chief's Advancer is a full sister to the first-prize gilt, 1905, that produced first-prize gilt. She is also a full sister to the dam of Model Chief 2d, sweepstakes in 1908. There will be ten sows bred to this great boar. Here is one of the good boars of Nebraska; fine color, good ham, strong arched back; in fact, it would be hard to write a description of him. He is assisted by Chief's Sensation 43849 by Sensation by Orion R. The dam is Hoosier Girl by Winchester Chief, the produce of Sensation, and his brother, Silkie Sensation, won ten ribbons at Nebraska State Fair, 1908. There are just a few of these sows bred to him, only four we believe. Kruger Chief 71039 is next in line. He is by Orion Chief by Orion 2d, dam Miss Kruger 5th by Kruger. This hog was sired by Mr. Ira D. Jackson's great boar, Orion Chief; the dam of this boar, Miss Kruger 5th, was at that time the highest-priced sow ever sold east of the Mississippi river—\$1,135. We think, without fear of contradiction, this is the smoothest large hog in Nebraska today. Here is the last in the boar family at Mr. Stewart's, but I tell you he is not least. This is H. A.'s Wonder, first prize at Iowa and Nebraska, 1909, in under-six-months class. He was out of H. A.'s Queen, a litter sister to H. A.'s Choice Goods, sweepstakes at Nebraska bred by exhibitor, 1908, and his dam was sired by Crimson Wonder Again, sweepstakes Iowa, 1906, and half-brother to Crimson Wonder III., sweepstakes, Lincoln 1908, in open class. This litter won more ribbons at two state fairs than any other litter ever did. He is as smooth, growthy as any you ever saw and such quality. He has the same symmetry of form he had when he was shown, that proud carriage than won him more honors than ever befell any of his class. One of the best sows in this sale is Kirk's Choice, first in a class at Lincoln, 1909. She was sired by Silkie Sensation,

LIMESTONE VALLEY FARM'S THE GREATEST EVER

THIRTY-THIRD ANNUAL SALE TWO DAYS

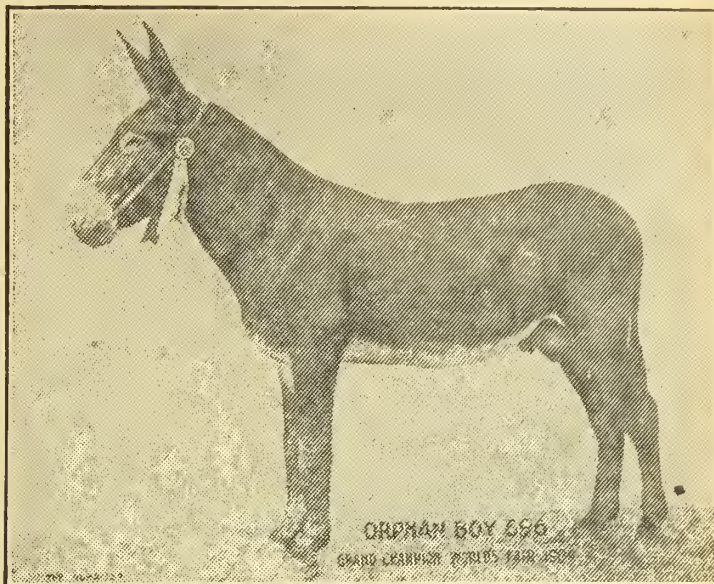
SMITHTON, MO., TUESDAY and WEDNESDAY

MARCH 1 and 2, 1910

- | | | |
|---|---|------------|
| 100 | Head high-class registered Jacks, Jennets and Saddle Horses | 100 |
| 20 | Head of the best aged Jacks that you ever saw together | 20 |
| 20 | Best breeding Jennets that you ever saw together, in foal to the world's grand champion, Orphan Boy 696 | 20 |
| 40 | Head of the best young Jack and Jennets ever seen together, sired by the two greatest Jacks in the world, LIMESTONE MAMMOTH 298 and ORPHAN BOY 696 | 40 |
| 20 HEAD HIGH-CLASS REGISTERED SADDLE HORSES 20 | | |

The aged jacks and saddle horses sell on the first day, so arrange to be with us the two days. Special train from Sedalia to Smithton and return each day of sale. We will take pleasure in mailing you the greatest catalog we have ever issued.

ADDRESS MENTIONING THIS PAPER
L. M. MONSEES & SONS, SMITHTON, MISSOURI.
 AUCTIONEERS---Cols. Harriman, Sparks and assistants.



SEE BARITONE MAMMOTH BY ORPHAN BOY and out of a Limestone Mammoth Jennet. The first of these ever offered. 7 Jennets with Orphan Boy colts at foot.

dam Luella. Another good one is Alberta, first and reserve champion, 1909. Alberta was by Stuart's Hoodoo by Gold Dust Model. Luella, first under one year, 1908, first in class the following year. Bred to H. A.'s Wonder for early farrow. Write for Mr. Stewart's catalog at once and please mention The Homestead. Mr. M. T. White will represent The Homestead at this sale. See advertisement on page 68.

LAST CALL FOR HAGER'S BROOD SOW SALE.

On February 12th, in the new heated sale pavilion at Avoca, Iowa, Mr. August Hager will again make a public sale of Duroc Jersey brood sows, and if there is anybody that is selling a good bunch this year it is Mr. Hager. His offering this year has been well grown out and he is putting into this sale some of the very best brood sows we have seen this year. The gilts that he is selling are also very choice this year and the offering as a whole is one of the best of the season. He is using two good boars. One of these is the good Ohio Chief boar, Peerless Chief. He is a litter brother to Massena Chief and Valley Chief. This boar has the size, length and bone. He is a good hog and is a breeder also. Mr. Hager has also used Proud Colonel, a good young Colonel boar by King's Colonel, the King of Colonels boar of Mr. Floyd Knapp's, and out of a Commodore dam. These two boars are both good and should be good producers. He is selling forty-five head of selected sows and gilts. Eight of these are tried sows. They are by Proud Advance, Lafollette, Jim Advance, Commodore, Belle's Wonder and Avoca King 2d. This sow by Proud Advance is a splendid matron, a sow that always raises big and even litters. She has a number of choice gilts in the sale. Jim Advance was a brother to Proud Advance. The gilts are by Model Chief III., King Solomon, Ohio Chief I Am, King's Colonel. These gilts are mostly bred to the Colonel boar. Mr. Hager has a good lot, with size, length, stretch and bone. Write him at once for a copy of his catalog and kindly mention The Homestead. Send your bids to Mr. M. T. White on sale day, in care of Mr. Hager, and they will be properly treated. See page 69.

LAST CALL FOR HALFORD'S BIG-TYPE POLAND CHINA BROOD SOW SALE.

On February 11th, at Manning, Iowa, Mr. R. W. Halford will make his annual public sale of big-type Poland China brood sows and he is going to put up an offering that will meet the expectations of our most exacting breeders. It is an offering that we can recommend to our readers and we want everybody who is interested in this breed of hogs to send at once for his catalog and see what he is selling in this sale. In his announcement Mr. Halford has the following to say about this sale offering: "It is my belief that I will be able on the 11th of February to show the best lot of brood sows that will be driven through the ring this season. This herd was not intended for a show herd, but to produce the business kind of hog, the kind the people want. They farrow more pigs, raise more pigs and produce more pounds of pork than any other kind of hog in existence. I have used three of the best boars I know of. Any one of them will weigh 1,000 pounds or better at maturity and are excellent individuals. Most of the offering is sired by Long Chief and bred to Jumbo Prospect, one of the best young boars in the state; the others are bred to H.'s Expansion and Long Chief. The best way for you to get the best start in the best kind of hogs is to buy one of these sows bred to one of these great boars. It is a long-lived gold mine; buy a share in it now and live your old age in comfort. I received over 150 inquiries for boars last fall; nearly half were received after I was sold out. I disposed of fifty head at private sale and had many orders I could not fill. This is surely evidence that they are the kind the people are after. Come to this sale and bid until you get one of these good sows. Come whether you buy or not. Bring your friends and neighbors and spend the day with us.

Wish you success in the future and hope to meet you sale day." Write for his catalog at once and mention The Homestead. See page 70 for advertisement.

REPPERT'S GREAT WESTERN SALE CIRCUIT.

One of the greatest offerings of Duroc Jersey brood sows that will be sold this winter will be the week of the Fred Reppert Western Sale Circuit, when six of the most prominent western breeders will offer choice drafts from their herds. The week will open at the home of that noted breeder, Mr. E. Z. Russell, Blair, Neb., on February 14th; Mr. M. S. Moats, Missouri Valley, Iowa, February 15th; Mr. C. W. Huff, Mondamin, Iowa, February 16th; Mr. John R. Tupper, Woodbine, Iowa, February 17th; Mr. W. L. Hull, Logan, Iowa, February 18th, and Mr. E. B. Ryan, Neola, Iowa, February 19th. It will be a great week of sales and those of our readers who are wanting Duroc Jersey brood sows should arrange to attend the entire circuit.

E. Z. RUSSELL'S OFFERING.

On February 14th, at Blair, Neb., Mr. E. Z. Russell will offer as grand a lot of Duroc Jersey sows as has ever gone through a sale ring in Nebraska, and we think we know what we are talking about. We say this advisedly after we have thoroughly inspected his offering. No one herd in the state of Nebraska has put out either boars or sows that have returned greater profits to their owner than has this herd of Mr. Russell. This is a dispersion sale to divide the interests of Mr. Russell and Mr. Moats, they being both jointly interested in the herd the past two years. Among the great attractions in this sale will be the choice herd boars that they have been using in the herd. Foremost among these is the great boar, Proud Chief, a son of the immortal Ohio Chief and out of the noted brood sow, Proud Lady. This boar was a winner of second prize at the Iowa State Fair and should have been first at that time. He was afterwards sold to Messrs. Moats and Russell for \$1,000, considered very cheap at that time. A better bred boar nor a better breeding boar will not be offered at public sale again this year and here is a great opportunity for somebody to buy a herd header. His gilts in several sales last winter were the tops of the offerings and he is breeding toppers right along. They will also sell the great boar, Dusty Critic, and the man that is wanting a boar that will breed plenty of size will be interested in this fellow. He is making a great record for himself as a sire of big-boned, strong Durocs. They will also sell three yearling boars sired by Proud Chief, and either one of these will make a good herd boar. Among the great brood sows that they are selling will be six daughters of the sweepstakes boar, Gold Dust Jim, and no other sire in the West has produced better sows than this famous old boar. Then there will be fifteen daughters of Glendale Critic in the offering and here is another sire that helped to make the Glendale herd one of the most noted in the West. Every sow in this herd has proven herself a great producer—rich in the blood of Ohio Chief and the Critic families, and the cross has certainly been a success. Now crossing this with Proud Advance you get a line of breeding that you certainly cannot beat. Glendale Critic won first and sweepstakes at Iowa in 1906 and produced the great herd shown at the same place the following year. It was the greatest show of any of the classes when Mr. Russell drove out Jumbo Critic and three of his brothers. They were without a doubt the strongest and largest herd ever shown in Iowa. When Glendale Critic died the red hog industry lost one of its greatest sires. There will be some very excellent daughters of Proud Chief in this sale and he will also be bred to many of the sows that will be sold. There will also be some excellent Dusty Critic gilts in the offering. We might go on and mention the various great individuals that will be sold in this sale, but we do not think that is necessary. We can assure our readers that here is going to be a good place to buy sows and

Frank Elder's Duroc Sale

CLAY CENTER, KANSAS, THURSDAY, FEB. 17TH

42 Head--G. C.'s Col. 63433--16 Tried Sows 22 early spring gilts--3 great young boars

G. C's Col. by Prince of Cols. and out of a daughter of The Chief by Ohio Chief is included as I cannot use him to advantage with King of Cols. 11. He is as great a breeding boar as King and is not sold for any fault. Some one wanting a great Col. bred boar will get him here. The 16 mature sows are as good as I own, several are by Model Chief Again, others are among the best things I got in the Chapin herd. The gilts are by King of Cols. 11, G. C's Col., Pilot Wonder and a son of Nebraska Wonder. All are bred for early farrow to my herd boars. Send for my catalog it tells the breeding and I know the hogs will please the most critical. A. T. Cole will represent this paper at sale.

FRANK ELDER, GREEN, KANSAS.
 Cols. Brady and McCullough, Auctioneers.

REMINGTON'S BIG-TYPE Poland China Brood Sows

40 Head--20 Yearling and Matured Sows--20 Gilts Tekamah, Nebraska, February 15, 1910

I AM the oldest breeder of big-type Poland Chinas in Nebraska, and if you want sows from the fountain strains, come to my sale. The blood of Chief Tecumseh 3d, Big Hadley and Chief Price predominates in my herd. Just write and get sale catalog and please mention Homestead. Col. H. S. Duncan, Auct.

O. N. REMINGTON, TEKAMAH, NEBRASKA.

herd boars and we know of no better. Write for Mr. Russell's catalog at once and mention The Homestead. Our Mr. M. T. White will attend the sale in person and will attend to any bids sent in his care. See page 67.

M. S. MOATS & SON'S OFFERING.

On February 15th, at their new home in Missouri Valley, Iowa, Messrs. M. S. Moats & Son will make their annual sale of Duroc Jersey brood sows and a splendid lot of Short-horn cattle, and this will be the second sale of the Fred Reppert Sale Circuit. They will sell forty-five head of sows, thirty yearling and matured sows and the remainder spring gilts. It is just such an offering as breeders will expect from this herd, as it has been considered one of the best in the West. A great attraction in this sale will be the noted boar, Brighton Wonder, a brother to the noted boars, Crimson Wonder, Glendale Critic, Crimson Wonder Jr. and other noted herd headers. This boar did great service in the herd of Mr. H. F. Huffman, also in the R. J. Harding, and lastly in the Russell and Moats herds. He will be

Herd Boar For Sale

MY Poland China herd boar, Chieftain 5121, for sale at reasonable price. Just what you have been looking for. Also nice bunch of fall pigs, boars and gilts. I can furnish them in pairs not akin at \$5 each for the next 30 days. These pigs are smooth and of heavy bone, out of large sows; some sired by Big Price by Pawnee Lad. Others by Chieftain, the boar offered for sale.

H. FESSENMEYER, CLARINDA, IOWA.

sold in this sale to close out a partnership and he will be one of the greatest breeding boars that will be offered at public sale. The get of this boar has always been in demand and for the man that is looking for a herd header we will say go after this fellow. He will be a bargain, no matter what price a man has to pay for him. There are two splendid Ohio Chief sows in this sale and they are both bred to Brighton

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The above cut shows you a photograph of sixty-nine of the PERCHERON, SHIRE and BELGIAN stallions now in our stables. You are missing the opportunity of a lifetime if you do not send and get OUR NEW 1910 CATALOG before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909, and are all in prime condition to go out on the stand and do a big season's service. They are nearly all solid colors; range in age from three to six years; in weight from 1,700 to 2,300 pounds. They are the big-boned, drafty type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a government bond. GET OUR CATALOG. It is free for the asking.

Watson, Woods Bros. & Kelly Co. - - Lincoln, Nebraska.

HOLT'S PRIZE-WINNING BRED SOWS

IN AUCTION SALE AT

Falls City, Nebraska, Tuesday, February 15, 1910

MY BERKSHIRES have been consistent winners at all of the leading western shows for the past six years. 1903 having been my first season out. At Nebraska have won 9 champions, 55 firsts, 32 seconds, and others in six shows. Des Moines, three shows, 3 champions, 16 firsts, 14 seconds and others. At Hutchinson, Topeka, Sedalia, St. Joe and Kansas City, nine shows, have won 22 championships, 54 firsts, 45 seconds. There will be two three-year-old sows, six two's and sixteen senior yearlings, all bred to Matchless Premier 118373, and the balance spring gilts. The yearlings and two-year-olds are granddaughters of the world's champion, Premier Longfellow, sired by Longfellow Premier 100000, the boar I showed in two-year-old class and headed first-prize aged herd, 1908, at five fairs, Iowa, Nebraska, Topeka, Hutchinson and St. Joe. Will sell twelve gilts that are either daughters or granddaughters to Longfellow Premier 100000. They are in good breeding condition and show well along, being bred mostly to Matchless Premier 118373 and Baron Duke, a pair whose individual excellence places them on a parity with those of greatest reputation. The catalog is replete with details and may be had upon application. Bids will be handled fairly sent to Fred S. Larkin, of The Homestead, in my care. Address

**COL. CALLAHAN,
AUCTIONEER**

W. R. HOLT, FALLS CITY, NEBRASKA.

STEELE'S LAST CALL.

Breeders of Short-horn cattle throughout the entire West will learn with serious regret of the decision of Mr. C. R. Steele, at Ireton, Iowa, to retire from the business of breeding Short-horn cattle. The announcement of his herd dispersion will be found on page 65 of this issue. For the last quarter of a century Mr. Steele has been engaged in the production of Short-horn cattle and in the maintenance of his herd he has never hesitated in the payment of a price which became necessary in order to secure those animals that would keep the herd up to the highest standard. His farm has been headquarters for animals whose blood lines were as good as the breed afforded and whose individual character had few superiors. Beyond this as a business man, Mr. Steele has established his reputation next to none. His absence from the business in the future will certainly be felt by the Short-horn industry of the Northwest. In particular Mr. Steele has endeavored to keep up the size of the animals in his herd. The writer at one time found in it a greater number of very large, broad backed breeding cows than he had seen in any other herd in the state of Iowa. The present herd bull in service is Lord Banff 3d. This is a bull of especially good quality, low down, thick in flesh and of good lines and a handsome red color. As a sire he has proven of greater value than the average herd bull. A very large proportion of the younger things cataloged for this sale are of his get. Many of the older cows have calves at foot by him. The other herd bull is Iowa Knight, one of the best sons of that noted sire, Red Knight. Both of these splendid bulls will be sold at the sale. One hundred head are cataloged—eighty females and twenty bulls. Forty of the cows have calves at foot and all old enough will have been bred. There are three imported cows. It is of special interest that the Scotch families are Duchess of Gloster, Lavender, Dorothy, Wimple, Orange Blossom, Secret, Mysic, Matchless, Raspberry and Aconite. The American families are mostly Young Mary, Rose of Sharon and Arabella. Ten of the bulls to be sold are of pure Scotch strains. They range from ten to twenty months old and are good enough for the breeder, as well as the farmer. In addition

to the cattle to be sold Mr. Steele has decided to dispose of thirteen head of Percheron horses. Six of these are mares, five are yearlings, one is a yearling stallion and the other is the 2,300-pound matured stallion. All of the mares are well broken and all raised colts last year. They are all of the ton type and one good pair weighed 4,200 pounds last year. The sale will take place at Mr. Steele's farm, February 9th and 10th. Catalog may be had by writing to Mr. C. R. Steele, Ireton, Iowa.

BROWN'S DUROC SALE—LAST CALL.

Mr. E. J. Brown's offering of Duroc Jerseys, at Osceola, Neb., on February 11th, is made up of forty-five head of superior tried sows, yearling and spring gilts, and have been bred for farrow to suit any breeder or farmer. There will be twelve daughters of the champion, Red Knight, in the sale, one by Medoc, and others by Red Duster, Gold Dust Knight, Belle's Echo, Proud Ceres, Gold Dust Chief and are bred to Medoc, the popular champion of 1909; Red Knight, the champion of 1905; Red Duster, Mascot, Long Crimson I and Crimson Wonder 4th, both sons of the champion of 1908, Crimson Wonder 3d. Mr. Brown has allowed no fads nor fancy caused by anything but individual excellence and their evident ability to reproduce to bring any stock into his herd for breeding purposes, and being a man of very clear judgment he is producing a hog that is today recognized by all as just about filling the farmers' and breeders' eye. The breeding when it is traced down will be found to be as rich as any in the herd books. As a show man he has been quite successful. This offering is strong, as may justly be expected from this line of breeding and proper care. Knight's Queen is a choice sow by Red Knight out of Echo's Best, a prize winner in 1904, by Echo King. Dutch Girl is a deep-bodied, broody sow of good lines sired by Red Duster and out of a Red Knight dam. Inline is a line-bred Red Knight and she, as well as the two above, are especially strong on feet and legs. A very choice gilt is by Gold Dust Knight out of an Orion dam. She has a very good sister in the sale also. A big, stretchy, broody gilt is No. 18, sired by Red Duster out of an Improver II. Jr. dam and bred to Crimson Wonder 4th. A couple of very

"WALKER'S KIND" POLAND CHINA SALE

TO BE HELD IN

Fairbury, Neb., February 9, 1910

40 HEAD An offering fully up to the usual "Walker" standard—one of size, bone, feet, quality and breedy character. There will be six tried sows, fourteen yearlings and twenty spring gilts sired largely by First Look, Blue Valley Quality and Exception, and are bred to three of the greatest producing sires in Nebraska—Blue Valley Quality 43026, First Look 43025 and Blue Valley Expansion, an exceptional son of What's Ex out of a Bell Metal sow. The catalogs, which are now ready and replete with details and breeding, will be sent for the asking. Bids should be sent to Fred S. Larkin, at Fairbury, Neb., in my care. Col. Z. S. Branson, auctioneer. Address for catalog,

Thos. F. Walker & Son, Alexandria, Neb.

stretchy gilts of good form are by Belle's Echo, one out of a Red Knight dam. A very choice, showy gilt is by Proud Ceres, neat, smooth and good form and bred to the champion, Medoc Jr. The catalog is ready. Bids will be handled in fairness to all if sent to Mr. Fred Larkin, of The Homestead. See advertisement on page 68.

SUNNY PEAK JERSEYS.

One of the cows which has contributed somewhat generously to the enviable reputation of the Sunny Peak herd of Jerseys at Elm Grove, Wis., is Fern's Golden Winnie 225508. At the age of two years and three months this matronly heifer with her first calf gave thirty-five pounds of milk per day.

At the Wisconsin State Fair in 1909 she was awarded first prize in her class and competed against imported animals. She was also later declared champion cow of any age bred and owned in Wisconsin. She was also a member of the first-prize get of sire exhibited in that same show. She later made her appearance at the National Dairy Show where she won first prize in the Wisconsin bred and owned class and was the star member of the get of sire which took second prize at that dairy show. The sire of this remarkable heifer is the Elm Grove herd bull, Pedro's Golden Fern. He is a son of Golden Fern's Lad which has been given the reputation of being the most prepotent Jersey bull that ever lived. See page 74.

STEELE'S DISPERSION SALE IRETON, IOWA, FEBRUARY 9th and 10th

IT is with the deepest regret that I announce the dispersion sale of the herd of Short-horn cattle which for the past twenty years I have been building up and which has afforded me both pleasure and profit. The herd was never in better shape than it is today. The 100 which go to make up the consignment include such a lot of splendid Scotch cattle as must afford pleasure to the breeders of the West, who are invited to inspect them and pass upon their values. It is my sincere hope that, in particular, the two herd bulls, Lord Banff 3d and Iowa Knight, will be taken care of by those having herds worthy of the splendid merits they represent. The usual courtesies will be extended to those in attendance at this two-day sale. I cordially invite all my old friends in the breeding fraternity to come to this important last offering. Others also will find in the consignment just such material as the beginner most needs for foundation material. For catalogs and other information address

C. R. STEELE, IRETON, IOWA.

SCOTCH AND SCOTCH-TOPPED SHORT-HORN CATTLE

THE consignment will consist of eighty females and twenty bulls. Fully one-half of the entire offering are of straight Scotch families such as Duchess of Gloster, Dorothy, Wimple, Orange Blossom, Secret, Mysie, Matchless, Raspberry and Aconite. The American sorts are Young Mary, Rose of Sharon, Young Phyllis, Ruby, Arabella, etc. Forty of the cows will sell with calf at foot. All the others that are old enough will have been bred to Lord Banff 3d or Iowa Knight. These females are right in every way, large, smooth and just such as I have from year to year been keeping on my own farm as a part of the breeding herd. The twenty bulls, one-half of which are straight Scotch, range in age from ten to twenty months and are good enough for the best of herds. Lord Banff 3d and Iowa Knight head the list. Lord Banff 3d needs no introduction to the public. He is one of the greatest breeding bulls of the present time and he should be appreciated by those who want something above the average.

13 PERCHERON STALLIONS AND MARES

THE Percherons will be sold at ten o'clock on the forenoon of February 10th. These are matured mares bred to Tempest, the 2,300-pound stallion. One pair of these mares weighed 4,200 pounds last spring and the others are nearly as large. All raised colts last year. There will be one yearling stallion by Tempest and five weanlings—three stallions and two fillies. All the mares are well broken and used to work. Sale will take place on the farm, three and one-half miles northeast of Ireton, Iowa, and five miles northwest of Maurice, Iowa. Auctioneers—Cols. Geo. P. Bellows and Carey M. Jones.

THE GREAT OHIO DUROC SALE CIRCUIT. WHITEHALL FARM SALE—LAST CALL.

The first day of the great Ohio Sale Circuit is Monday, February 7th, when Whitehall Farm, at Yellow Springs, Ohio, will make an offering of sixty-five head from the tops of their herd. Whitehall Farm has made a number of sales of Duroc Jerseys, but we can candidly say that this is the best offering ever made from this noted herd. Included in the sale are a number of prize winners at the late International Stock Show and at the different state fairs during the past year. Mr. J. E. Drake, the efficient manager, has made a special effort to make this offering not only the best that they have ever put up, but to equal or surpass any offering of the year. When you see this bunch of sows on February 7th you will about come to the conclusion that he has succeeded. There will be some twenty sows sired by Kelly's Pilot Wonder, the champion of the Ohio State Fair, 1907; there will be seven by Col. S., the Kentucky State Fair champion in 1908; three by Prince Wonder, one of the greatest boars of the breed, and others by Red Wonder, King of Cols., Orion Chief, Kenton Chief, Macon Chief, Muncie Chief, Chief's Col., Golden Rule and Kansas Col. by King of Cols. 2d. The sow by Orion Chief was first in the senior yearling class, senior champion and grand champion at the late International Stock Show. She is bred to Cherry King and is one of the most attractive sows to be sold this season. The sow by King of Cols. was the first-prize junior yearling sow at the late Chicago Stock Show and is bred to Cherry King. The sow by Macon Chief was the second-prize under-year sow at the International and was also a prize winner at the 1909 Illinois State Fair. The second-prize aged sow at the Chicago Stock Show is also included. The sows will be bred to Kelly's Pilot Wonder, Col. S., Royal Heir by King of Cols., Gold Bond by Golden Rule, Advancer 2d by Advancer and Cherry King by Cherry Chief by Orion Chief and out of a King Col. dam. A sow bred to any of the above boars is a good proposition. We hope to see a big turn out of breeders at this sale, as this is the first of a series of six sales to be held near Dayton, Ohio, the week of February 7th to February 12th. In these six sales over 350 head of bred sows will be offered and the breeder who is wise will attend this entire week's sales and pick up some of the many bargains that are bound to pass through these sales. You will not have time to go to the show and if you can't attend the sale, send a mail or wire bid to Mr. Carlos C. Palmer, Homestead representative, at Dayton, Ohio, or Mr. Drake, Yellow Springs, Ohio, for more particulars.

WATT & FOUNT SALE—LAST CALL.

Messrs. Watt & Fount, of Cedarville and Xenia, Ohio, have made an enviable reputation as breeders and exhibitors of high-class Duroc Jerseys. At the World's Fair at St. Louis and at the Ohio State Fair during the past few years this firm have been one of the largest winners among the exhibitors. They have bred nearly all of this show stuff and the sows they are offering in their sale at Dayton, Ohio, on February 8th, are not only the produce of their prize winners, but many of the prize winners themselves are included in this sale. It is a pleasure to recommend the kind of sows they are selling in this sale to the buying public. They are selling about sixty head and they are a very uniform lot from end to end. The sows in their sale are bred to Good E Nuff, their prize-winning son of Golden Rule and the sire of the first-prize junior yearling boar at the Ohio State Fair, 1909; High Model by Model Chief; Choice Rule, grand champion boar at the Ohio State Fair, 1908; Good E Nuff Again, the first-prize junior yearling boar at the Ohio State Fair, 1909, and Col. Ira De Jack by Tippy's Col. out of a Chief Walters dam. There are also about ten head bred to Nugget, the first-prize under-year and junior champion boar at the Ohio State Fair, 1909, and headed the first-prize young herd at the same show. He is a full brother to Good E Nuff being sired by Golden Rule. The sows in the sale are sired by the following boars: Twelve by Golden Rule, fifteen by Good E Nuff, ten by High Model,

four by Our Pal, a son of King Pal; W. & F.'s Proud Advance, Carl's Col., Tippy Col., Good E Nuff and King Pal. Two yearling sows by High Model, winning first and third respectively at the Ohio State Fair, 1909, are included in the sale. They also list the second-prize under-year sow by Good E Nuff. This offering is strictly first class in every respect and the breeder who goes away from this sale not owning a good gilt or sow has passed up an opportunity to improve his herd and make some money. These sows have merit and breeding behind them and a reputable firm selling them. This is the second day of the Ohio Sale Circuit and if you cannot attend the sale, send a bid to Mr. Carlos C. Palmer, Homestead representative, in care of the Phillips House, Dayton, Ohio, and the same will be handled to your interest. The advertisement appears on page 71.

IRA JACKSON'S SALE—LAST CALL.

Few Duroc Jersey breeders are better known than Mr. Ira Jackson, of Tipppecanoe City, Ohio. Mr. Jackson has produced his share of the prize winners at the largest shows ever held in the United States. When he shows he always aims to show at the biggest show of the year and after the show is over he always has about as many or more ribbons than any other exhibitor. At the World's Fair at St. Louis he was awarded a premier breeder's championship. At that show he won first in the junior yearling class on Orion Chief, a boar that has sired him more winners than any other boar he ever used; at the Iowa State Fair, in 1907, the largest show in the history of the breed, he won three first and two second premiums and three herd prizes. At the 1909 Illinois State Fair he won first on aged sow, first on senior yearling sow, first and second on under-year sows, junior champion boar, first on young herd bred by exhibitor and first on get of sire, besides numerous other ribbons. Is this not enough to give you a good idea of the quality of stock that Mr. Jackson breeds? How many breeders can show such a prize-winning record on Durocs of their own breeding? In his sale there will be three sows by King of Cols. sold. They are all good ones and we would advise breeders to look after these sows, as each year they will become more valuable. King of Cols. is dead and there will be very few of his daughters for sale in the future at any price. A number of the sows in the sale are bred to Tippy Col., the sire of Mr. Jackson's sensational under-year herd of 1909. The others are bred to Joe Orion by Orion Chief, Big Chief by Orion Chief, Long Orion by Orion Chief, Cherry King by Cherry Chief, out of a King of Cols. sow, and Col. Orion by Tippy Col. Last week we gave the list of boars that were represented in sows offered in this sale. By writing at once you yet have time to get a catalog, which is rich in the best breeding of the herd books. This is the third day of the great Ohio Sale Circuit and only thirty minutes' run on an inter-urban car from Dayton. If you cannot attend this sale, send a bid to Mr. Carlos C. Palmer, Homestead field man, care of the Phillips House, Dayton, Ohio, and the same will be properly handled. See advertisement on page 71.

S. E. MORTON'S SALE—LAST CALL.

The eyes of Duroc Jersey breeders generally always rest on the sales of Mr. S. E. Morton, of Camden, Ohio. This year will be no exception, as he is putting up a good offering. As usual the sale will be held at the Dayton Fair Grounds, Dayton, Ohio, which makes it very convenient for breeders attending the entire week's sales. Mr. Morton has been one of our greatest constructive breeders and his efforts have been rewarded. It must be a pleasure to a man to see stock of his own breeding able to go out and win at the largest shows in the United States. Such has been the case with a great number of animals that have gone out from this herd. We have full confidence that breeders will appreciate an offering of good sows that are backed up by the breeding such as the ones Mr. Morton will offer the buying public on February 10th. Orion Chief and King of Cols. have been the greatest productions of the

BROOKMONT HEREFORDS ODEBOLT, IOWA.

THE starting of a herd of pure-bred cattle is a matter for serious consideration. It is too expensive to make any reckless experiments. Brookmont Farm has made the experiments. You may profit by them. Do you know that Imp. March On, the greatest living bull of the breed, heads Brookmont Herd? Do you know that the world affords no better blood? Come to headquarters for March On blood. A part of the Brookmont Farm has been sold, and we must reduce the herd to fit the remaining acres. That is the reason we are offering such remarkably low prices on Hereford bulls, cows and heifers. Come and see how good they are and how cheap we can sell you a foundation herd. Come at once.

A. E. COOK, ODEBOLT, IOWA

Duroc breed in recent years. Both came from this noted herd. The sows offered in this sale invariably trace several times to these two boars. They have been mated so as to produce the best results for the man who buys them. Six sows by King of Cols. are cataloged, more than has been sold or will sell in any one sale this season; these six sows alone should attract breeders from many states. The other sows in the sale are sired by Cherry Chief, Chief Success, High Notcher, Col. Grant, H. L.'s Chief, King De Col., The Chief and Stewart's Col. There will be about fifteen sows bred to Premier Col., a boar that has made a remarkable record as a sire for a boar of his age. He is sired by King of Cols. and out of O. C.'s Variety and has been retained in the herd as chief herd boar. To those who know Mr. Morton this statement is sufficient evidence of his superiority. The other sows are bred to S. E.'s Model Top by Model Top, Stewart's Col. by King of Cols., H. L.'s Chief by High Chief, King De Col., High Model Jr. and Cherry Chief. Last week we called your attention to a few of the great winners that have come from this noted herd. It is always a pleasure to recommend this herd to new breeders, as well as old breeders, for the reason that anything coming from this herd always makes good. They are fitted and bred in such a manner that good results are always obtained in the hands of the purchaser. You have yet time to get a catalog by addressing Mr. S. E. Morton, Camden, Ohio. If unable to attend the sale, send a bid to Mr. Carlos C. Palmer, Homestead field man, in care of the Phillips House, Dayton, Ohio, and the same will be carefully handled. The advertisement appears on page 71.

MAHAN BROS.' SALE—LAST CALL.

On Friday, February 11th, the fifth day of the Ohio Duroc Jersey Sale Circuit, Messrs. Mahan Bros., of Osborn, Ohio, will put up an offering that will equal any of the week. This firm have been making the Ohio, Indiana and Kentucky State Fairs with their show herd for the past few years and have won as many or more ribbons at these three shows than any other exhibitor. They have won grand champion boar and grand champion sow at these different fairs several times. In 1909 they had grand champion sow at all three of these fairs. If space would permit, we could write pages regarding the winnings of this herd. These gentlemen have been level headed in their breeding operations

TOO LATE TO CLASSIFY.

Duroc Jersey Bred Sows

Fifteen spring gilts and three yearling sows bred for March, April and May farrow to High Wonder by Red Wonder and Cross' Col. by Col. S. Write for price and description, mentioning The Homestead.

L. W. Cross & Son, Mason City, Ill.

25 Chester White BRED GILTS

FOR SALE at private treaty. Sired by Nepon-set Boy, Mear's Medium and Mikro by O. A. Mikado. These sows are bred for March and April farrow. Prices reasonable.

D. H. Lewis, Geneseo, Ill.

GALLOWAYS

HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address John C. Gahring, R. 1, Box 29, Marengo, Ia.

O. L. MOSSMAN, MASON CITY, IA. LIVE STOCK AUCTIONEER

Thoroughly posted as to pedigrees and values. Write for dates. Terms reasonable.

CHESTER WHITE BRED SOWS

GROWTHY spring gilts, from prolific families that raise big pigs and lots of them, bred for March and April litters. Price right. Stock shipped on approval. J. S. Kennedy, Blockton, Iowa.

For Sale—Registered Clydesdale Stallion State Fair winner; wt. 1,800; coming 3; could use good mare in exchange. James Pedley, Algona, Ia.

When writing to advertisers please mention this paper.

and have never given way to fads and fancies. Pedigree does not look good to them without the individual also being good. In all of their breeding operations they have aimed to get the very best of individuals along with the most popular blood lines. They have kept constantly improving their herd until at the present time it is one of the best in the state of Ohio. Their stuff has plenty of size, quality, good heads and ears, good bone and feet. An offering such as these gentlemen are putting up is a credit to any breeder in the land. It is a combination of the Col., Ohio Chief and Orion Chief blood lines. The sows in the sale are sired by Cherry Chief, Grand Success, Chief To Be, Kruger's Corrector, C. D.'s Col., Orion Model, John's Ohio Chief, Model Top, Orion Meddler and Whitehall Wonder by Kelly's Pilot Wonder. The sows are bred to Chief To Be by Grand Chief by Ohio Chief; The Chief Col. by Cherry Chief, out of a King of Col. sow; Fancy Col. by King of Cols. 2d, dam Fancy Finish, a granddaughter of Ohio Chief; Kruger's Surprise by Kruger Correct, and Whitehall Wonder by Kelly's Pilot Wonder. The Chief Col. is a litter mate to Chief Select, a boar at the head of the herd of Mr. George Purdy, of Mason City, Iowa. Whitehall Wonder was one of the sensational litters shown by Whitehall Farm in 1908 and he was a prize winner himself. We sincerely hope that every breeder attending the sales the fore part of the week will make arrangements to stop over and attend this sale and see the quality of hogs that Messrs. Mahan Bros. are breeding and producing. We know when you see them you will appreciate them. Address Messrs. Mahan Bros., Osborn, Ohio, at once for a catalog. The advertisement appears on page 71. Bids sent to Mr. Carlos C. Palmer, Homestead field man, in care of the Phillips House, Dayton, Ohio, will be carefully handled.

E. C. STEMEN & SON'S SALE—LAST CALL.

On Saturday, February 12th, the last day of the Ohio Duroc Sale Circuit, Messrs. E. C. Stemen & Son, of Middlepoint, Ohio, will make a grand offering from their herd. The sale will be held at their farm. This firm is rather new to our readers, yet we want you to know that they have a lot of good, well-bred Duroc sows to offer you on February 12th. This firm have been breeding Duroc Jerseys for the past twenty years and have been exhibiting at the best county fairs in Ohio during this time. Last year they made an exhibit at the Ohio State Fair and carried away several ribbons. One of the best moves they ever made was when they purchased the entire Studabaker herd which included a grand collection of sows and the two herd boars, High King by King Pal and C. & R.'s Col. by Whitehall King. Many of the sows in this herd were tops of some of the best sales in both the East and West. The sows in this sale are sired by Lincoln Top, the Nebraska champion of 1907; Red Wonder, the Iowa champion of 1907; McNeil's Model, the sensational under-year boar of 1907; Prince of Cols. and his noted son, Muncie Chief; Lafollette, King To Be, Macon Chief, High King, Miller's King, Nother Chief, Prince Wonder, Golden Rule, Richland Col., C. J.'s Prince of Cols., Prince Model and C. & R.'s Col. The boars they are bred to are High King, one of the best sons of King Pal; C. & R.'s Col. by Whitehall King; Corrector's Echo, Our Top by Lincoln Top; and Stemen's Wonder by Red Wonder. There will be a good Red Wonder sow bred to Glad Col. There will also be a gilt by Savannah Bell Chief bred to Crimson Again, a Crimson Wonder-bred boar. This is the last sale of the week and we hope that every breeder will stay over and attend this sale. The offering deserves the support of our best breeders and Messrs. Stemen have been good buyers at the public sales this season. The advertisement appears on page 71. Address Messrs. E. C. Stemen & Son, Middlepoint, Ohio, at once for a catalog. Bids sent to Mr. Carlos C. Palmer, Homestead representative, in care of Messrs. Stemen will receive careful attention.

KEASY'S SALE ANNOUNCEMENT.

As will be noted in the advertisement on page 68, Messrs. E. D. Keasy and A. R. Campbell, of Wiota, Iowa, will sell a splendid consignment of Poland China brood sows on the 17th of February. Mr. Keasy is putting in a highly-attractive lot of sows that carry the very best strains of blood and cannot fail to meet the approval of those who like size and strong Poland China characteristics. There will be fourteen matured sows in the lot. These are not culls, but are in the main just as good as those which he will retain in his own herd. One of these is Opal, a three-year-old daughter of T. N. Challenger, he by a son of Aerobol, an Iowa State Fair winner, and back of that is a strong infusion of the blood of Keep On. The dam was Minnehaha, a daughter of that grand old sire, Chief Perfection 2d. She is a good brood sow, as will be noted by the fact that she has three splendid fall sows in this sale. Two of these in turn have farrowed litters, from this a portion have been cataloged for this offering. Lulu Perfection, a four-year-old daughter of G.'s Perfection, and on the side of the dam tracing back to Perfection I Know, is a show sow, as well as a breeder. One of her daughters, Rosabel, goes into the sale and the latter has two splendid spring gilts. Lulu Perfection won second at the Cass County Fair last fall and the Rosabel gilts were winners at the same show. May Perfection is a three-year-old sow by Who, and Who is a grandson of Perfect Perfection. Later reference will be given to his breeding in full, as his blood performs an important part in this sale. The dam of May Perfection was a sow of good breeding. Her second dam was by the Iowa State Fair-winning Proud Perfection. This sow also contributes three big fall gilts and two spring gilts to the sale. Hazel 2d is another daughter of Who, whose dam is by Keep On 2d and second dam by Chief's Delight. Other sows in the sale are Orpha 2d by Contractor, Lady Osborne (one of the big kind) by Osborne Chief and a four-year-old of excellent breeding that sends three good gilts forward. These sows will have been bred to Buy Block or Dorr's Dude. Guy Block is by Guy's Price 2d and his dam was a sow of more than ordinary good breeding. He is a big hog with quality, strong feet, deep, smooth

body, a great back and nice coat. He weighed over 400 pounds at one year old and won third place in the under-year class at the fair. Dorr's Dude is by Royal Dude, he by the show hog, Max Dude, that was a champion winner at the Nebraska and Colorado fairs. His dam was one of Mr. John Blain's best sows and his second dam a daughter of Big Hadley. This is a very big-boned fellow with good feet, strong in heart measure and carrying a good deal of finish. Reference to the younger things in this sale will be made in the next issue of The Homestead. In the meantime we advise our readers to send for catalog, addressing either Mr. E. D. Keasy, Wiota, Iowa, or Mr. A. R. Campbell, Wiota, Iowa.

STRICTLY BUSINESS GUERNSEYS.

A real breeder of Guernsey cattle is Mr. John Clark, proprietor of the Richmond Guernsey herd at Whitewater, Wis. He and his father established their herd in 1887 and after several years of breeding they were particularly struck with the excellence of their cow, Lura 7227, and the uniformity of her descendants. At that time they discarded all other strains and devoted their entire energies to developing a herd from the offspring of this proven dam. Today every animal upon the Richmond Farm with the exception of the service bulls is a direct descendant of Lura. Mr. Clark has recently issued a catalog which contains the pedigree of this cow, Lura, and those of the bulls which have been used upon her and her descendants. It therefore shows the blood lines of every animal in their herd. Richmond animals have never been exhibited and have never been boomed by overdrawn advertising. The owners have preferred to work steadily along, each year selecting the best females and buying bulls of the best strains to mate with them. They have endeavored to breed a Guernsey of the strong, motherly type which has made the breed what it is today. At the same time they have coupled these traits with profitable dairy performances. They have paid less attention than most breeders to fads, believing that in the end the fundamental requirements of a true dairy cow will be regarded as of more importance than a slight matter of color. Anyone interested in Guernsey cattle and the very best of the breed should secure a copy of the Richmond herd catalog and a sale list of six bulls which they are offering for sale. Five of these young sires were sired by Glenwood's Stranford 9386, a bull whose breeding and individuality made him the pier of any bull in the breed. His dam, Stanford's Princess, for a long time held the world's record for making two consecutive yearly advanced registry records. As a four-year-old she produced 9,288 pounds of milk and 547 pounds of fat and as a five-year-old 12,279 pounds of milk and 725 pounds of fat. The daughters of this sire and granddaughters of this cow have remarkably well-shaped udders and show great promise. One of the number is milking thirty-eight pounds per day with her first calf. Another fact of more than usual interest is, that Glenwood Stranford was sired by Glenwood Boy of Hadden which also sired Dairymaid of Pinehurst and Jeddeta of Pinehurst, the leaders in the Iowa dairy cow contest. Anyone who is at all familiar with the splendid work being done by these two cows in the Marsh herd will at once recognize the quality of this breeding. The dams of all the bulls now being offered for sale by Mr. Clark are good cows and were sired by such bulls as King Coral 5238 and Captain Robbie 7146. All stock sold from the Richmond Farm is guaranteed to be free from tuberculosis and to produce offspring if given reasonable care. See page 74.

LAST CALL FOR PHILLIPS' SALE.

Poland China breeders are asked to keep in mind the fact that on Wednesday of next week, February 9th, Mr. C. W. Phillips, of New Sharon, Iowa, as announced in the advertisement on page 69, will drive into the sale ring something like fifty head of Poland China brood sows that will not be surpassed in general excellence and breed character by any offering of the year. In our last issue we gave some important facts concerning Mr. Phillips' principal herd boar, On Exhibition. One of the older sows that goes into this sale is Leila Perfection by Mahaska Perfection, dam tracing directly to that great Columbian Exposition winner, L.'s Teemseh. This is a splendid brood sow, right in every way, and has a record of having farrowed never less than eight pigs. She also sends into the sale one yearling daughter and two spring gilts, all by On Exhibition, and she is again bred to him. The two gilts are particularly attractive. They are well balanced, good from end to end, with well-arched backs and strong feet, and will make show hogs if given half a chance. Another sow, Lelia 232870, is a granddaughter of Just What's Wanted and her dam is a daughter of L.'s Perfection. She also is an excellent breeder and sends into the sale two yearlings, one of which is the most attractive of the yearlings in the bunch. A good two-year-old is Zella Shine a Strater-bred sow, tracing to Standard Chief, one of the greatest sons of old Chief Teemseh 3d. A pair of March gilts that would be attractions in any show ring are by Handspring 2d, he by Handspring, a son of Mischievous Maker. His dam is a daughter of Corrector 2d. The pedigree is one that is replete with the names of show winners in the strongest rings and these two pigs need only to be seen to be recognized as the very best of prospects. Two others by the same sire are almost exactly as good. The dams of both these pairs of pigs are by On Exhibition. There are also another pair of March gilts that are notable because of their immense growth. These are by Jumbo G. B., he by Jumbo. They will have been bred to On Exhibition. They are not only big, but they are good honed, strong footed and with well-arched backs. Their especial attraction, however, is their size. They ought to suit the fellow who wants bigness if he is willing to pay the price. Mr. Phillips bought them at rather long figures and is only putting them into this sale because of the attraction. There are many other points of interest that might be mentioned with reference to this consignment, but for these we must refer our readers to the catalog, for which write to Mr. C. W. Phillips, New Sharon, Iowa.

COL. H. L. IGLEHEART GLENDALE, KENTUCKY



LIVE STOCK AUCTIONEER

Fifteen years' experience conducting live stock sales for successful breeders. I refer you to my patrons. Sales solicited. Write me.

A Superior Lot of Polands

Are Those To Be Sold In the Sale of J. H. Hitch At
GENEVA, NEBRASKA, FEBRUARY 14, 1910

36 HEAD 3 aged sows and 33 gilts; good bone, short pasterns, good feet, good body lines, backs and much size prevails. Hadley Chief 49591, a Big Hadley-Pawnee Chief bred boar, and Blue Valley Major, an Expansion-bred fellow, are the big-bone quality sires to which they are bred. Daughters of size by Expansion, McKay Look, Mastodon 68th, Cap Mastodon, Indian Creek Belle, a sister to Big Victor and Hadley Chief. The catalog is now ready and may be had upon application to

J. H. HITCH, GENEVA, NEBRASKA.
Col. Callahan, Auct. F. S. Larkin, Field Man for Homestead.

PETTY BROS.' ANNUAL JACK AND JENNET SALE SEDALIA, MO., THURSDAY, MARCH 3 25--MAMMOTH JACKS--25

Nine better than 15½ hands high, 18 better than 15 hands high, all blacks with mealy points; 15 jennets bred to Orphan Boy, Prince Giant and Tennessee Winner.

TENNESSEE KING, Champion and grand champion jack at the Missouri State Fair in 1909, and seven other winners at the same show are included. We won first, second and fourth on jacks three years old, first and third on jacks two years old, first and second on jacks one year old.

Sale at our farm two miles from Sedalia. Every arrangement for your comfort has been arranged for. Send for our illustrated catalog, mentioning this paper. Auctioneers—Harriman, Sparks and others.

PETTY BROS., SEDALIA, MISSOURI.

When Writing to Advertisers Please Mention This Paper

REPPERT'S GREAT WESTERN SALE CIRCUIT DUROC JERSEY BROOD SOWS

This Will Be the Greatest Week's Sale of Duroc Jersey Brood Sows That Has Been Made in the West This Year, and Are Sired By the Greatest Boars of the Breed.

E. Z. Russell, Blair, Neb., February 14th

45 HEAD SOWS--5 GREAT HERD BOARS--45

Included in this sale will be the noted boars, Proud Chief, one of the greatest breeding sons of old Ohio Chief, and he was second-prize boar at the Iowa State Fair; Dusty Critic, another great boar, will be sold and three yearling sons of Proud Chief. There will be six Gold Dust Jim sows in the sale, fifteen daughters of Glendale Critic, eight Dusty Critic gilts and a number of Proud Chief sows. Twenty head will be bred to Proud Chief in this sale. There will also be one good Advance sow bred to Dusty Critic. Here is the greatest lot of brood sows that has ever been offered at public sale in Nebraska, and here is the place to buy a great herd boar. Catalog now ready. Write for it at once. Address

COL. FRED REPERT, Auctioneer.
M. T. WHITE, Field Man.

E. Z. RUSSELL, BLAIR, NEBRASKA.

M. S. Moats, Mo. Valley, Ia., Feb. 15th

40 SOWS AND GILTS--ALSO THE GREAT BOAR, BRIGHTON WONDER--40

There will be ten tried sows in the sale sired by Ohio Chief, Proud Advance, Brighton Wonder, Crimson Critic and the great Proud Chief. I am also selling a Glendale Critic sow that is hard to beat, bred to Brighton Wonder. There will be about fifteen Proud Chief sows and gilts in my sale. I will also sell the great breeding boar, Brighton Wonder, a full brother to Crimson Wonder, and he is a great herd boar proposition. Write and get my catalog at once. Address

COL. FRED REPERT, Auctioneer.
M. T. WHITE, Field Man.

M. S. MOATS, MISSOURI VALLEY, IOWA.

C. W. Huff, Mondamin, Iowa, Feb. 16th

40 HEAD OF CHOICE SOWS AND GILTS

I am offering fifteen head of my best yearling and tried sows and twenty-five of my best gilts. They are sired by such noted boars as Crimson Advance, Valley Chief, Iowa Challenger, Lafollette, Kruger, Tip Top Chief, Muncie Chief, H. A.'s Choice Goods, Tientsin, Nebraska Belle's Ohio Chief, Guthrie Chief and other noted sires. Catalogs now ready. Address

COL. FRED REPERT, Auctioneer.
M. T. WHITE, Field Man.

C. W. HUFF, MONDAMIN, IOWA.

John R. Tupper, Woodbine, Ia., Feb. 17th

40 HEAD--15 TRIED SOWS--25 CHOICE GILTS--40

Daughters of the great Crimson Wonder Again, Lafollette Alphonso, Muncie Chief, Model Chief 3d, Guthrie Chief, Kruger Lad, Dunlap Banker, Ohio Anna's Advance and Orion Jr. will be offered. Also one good Prince Wonder sow bred to King Wonder. These sows will be bred to the great boars, Alphonso, Waveland Col., Lad Kruger and Ohio Anna's Advance. You will see some great sows in this sale. Write for my catalog at once.

COL. FRED REPERT, Auctioneer.
M. T. WHITE, Field Man.

JOHN R. TUPPER, WOODBINE, IOWA.

W. L. Hull, Logan, Iowa, February 18th

40 HEAD OF THE MOST RICHLY BRED SOWS AND GILTS--40

There will be ten head of tried brood sows and thirty choice gilts in my sale bred to the great boar, Lafollette, and the sweepstakes boar, Crimson Chief. There will be seven daughters of the great Valley Chief in this sale, also daughters of Orion's Success, W. L. A.'s Choice Goods, Orion Jr. and other noted boars. Six sows in my sale are bred to Lafollette. I am selling a splendid lot of sows bred to the most noted boars of the breed. Write for my catalog at once. Address

COL. FRED REPERT, Auctioneer.
M. T. WHITE, Field Man.

W. L. HULL, LOGAN, IOWA.

E. B. Ryan, Neola, Iowa, February 19th

45 HEAD--15 YEARLING AND MATURED SOWS--30 GILTS--45

Included in my sale will be Tientsin Belle, a daughter of Tientsin, also daughters of Jim Advance, Hager's Kruger Lad, I Am Advance, Alphonso and a number of granddaughters of Ohio Chief. These are bred to Crimson King, C. W. Chief, Lafollette's Improver, Model Prince and Harlan Chief. These sows are the select of over one hundred and fifty sows on the farm. Let me send you my catalog. Address

COL. FRED REPERT, Auctioneer.
M. T. WHITE, Field Man.

E. B. RYAN, NEOLA, IOWA.

M. T. White, Homestead representative, will attend the above sales, and will care for all bids sent in his care. Write for catalog to above breeders. Mention paper.

WAYSIDE SHORT-HORNS AT AUCTION THURSDAY, FEBRUARY 17TH

**32 HEAD 22 FEMALES
10 BULLS**

THE most desirable offering ever made from Wayside. The bull consignment includes Scotch bulls fit to head any herd in the country. It is doubtful if any breeder has offered such a bunch of bulls—products of his own herd—in recent years, as this one. Sons and daughters of Hopeful Knight and Money Musk predominate. Write for catalog, mentioning The Homestead.

G. H. Burge, Mt. Vernon, Iowa.

Col. Griff Johnson, Auctioneer.

THE BIG INDIANA DUROC SALE

WILL BE HELD ON THE FARM OF LON HODSON,
NEWCASTLE, INDIANA,
WEDNESDAY, FEBRUARY 16TH
65—BRED SOWS—65

CONSISTING of 35 spring yearlings, 20 spring gilts, 10 tried sows. The leading blood lines of the breed are represented in this sale. The sows represented are C. E.'s Col., Orange Lad, King of Cols., Proud Advance, Commodore, Ed.'s Col., Prince of Cols., Decatur Boy, Kruger, Orion Chief, High Chief, etc., bred to Decatur Boy, one of the greatest boars of the breed; Commodore Special, Cline's Col. Ideal, Golden Rule Col., Decatur Col., King of Cols., King of Cols.' Ideal, sweepstakes this year at the Ohio State Fair at Columbus. **AND LISTEN!** This is the first offering in the United States guaranteed to be immune from cholera, vaccinated with the Govt. Serum, under the direction of Dr. R. A. Craig, of Perdue University. To show you that no ill effects follow, 10 sows with young pigs at their sides will be offered. How would a High Chief, King of Cols. or an Ohio Chief sow look to you with a litter from Decatur Boy?

Bid sent to Carlos C. Palmer, in my care, will be properly handled.

Write for a catalog and attend this sale.

Lon Hodson, Newcastle, Indiana.

O. E. OSBORN'S SALE DUROC BRED SOWS —JERSEY— Weston, Iowa, Friday, February 11, 1910

40 Head--10 Matured Sows--30 Spring Gilts

THERE will be two Ohio Chief sows in my sale, bred to Model Critic, two fall sows by Crimson Critic, five daughters of Lafollette, two by Crimson Wonder Again, six by Protection Again and two by Baxter's Buddy 3d. I will also sell Lady Browning, a daughter of Buddy K. IV., out of a Proud Advance dam. These are bred to Model Critic, Proud Commodore and Crimson Chief. Write for my catalog and be sure to come to my sale. Address

O. E. OSBORN, WESTON, IOWA.

Col. F. F. Luther, Auct.

M. T. White, Field Man for Homestead.

Sam Stewart & Son's Great Offering Prize-Winning Duroc Jersey Brood Sows KENNARD, NEB., FEBRUARY 9, 1910

**40 Head 10 Yearling and Matured Sows 40
and 30 Spring and Fall Gilts 40**

Including Kirk's Choice, first-prize aged sow at Nebraska State Fair, 1909; Alberta, first and reserve champion sow, 1907; Elberta, first prize under year, 1908; Kirk's Choice 2d, second-prize junior yearling, 1908, and other leading winners. Also daughters of Redwood Chief, Ruby Chief, Kruger Chief, Kruger and other well-known sires. These are bred to our great young boar, I Am Perfection Wonder, first-prize boar at Nebraska State Fair, 1909; also to Chief Sensation and Chief Advancer. The like of this offering will not be seen in any sale ring this winter. Col. F. F. Luther, auctioneer. M. T. White, field man for The Homestead. Send for my catalog at once. Address

Sam Stewart & Son, Kennard, Neb.

55 Poland China Bred Sows —AT PUBLIC SALE AT— WIOTA, IOWA, THURSDAY, FEB. 17, 1910

WE are putting into this sale a consignment of sows that will require no apology on sale day. They are big, growthy ones, of the true brood sow type, with finish and style that make them look good. Some are prize winners, and others are good enough to show. Twenty are tried brood sows; the others fall yearlings and spring gilts. They are the get of T. N. Challenger, Who, G.'s Perfection, Contractor, Osborne Chief, Sunshine Chief, Large Jericho and G.'s Equal. They are bred to Guy Block, Dorr's Dude, King Meddler and Big Duke. The sale will take place at Mr. Keasy's Franklin Center Stock Farm, two miles south and two miles east of Wiota, and seven miles north of Cumberland. Free transportation from both places on day of sale. Col. J. West Jones, auctioneer. For catalogs, address

A. R. Campbell, Wiota, Ia., or E. D. Keasy, Wiota, Ia.

BROWN'S DUROC SALE —AT FARM NEAR— Osceola, Neb., February 11th

**An Offering from one of Nebraska's Superior Herds,
Made Up of 45 HEAD; 12 Yearlings and Tried Sows
and 33 Gilts, Bred to Farrow in March, April, May.**

Twelve daughters of Red Knight, the popular champion of 1905. Ten daughters of Red Duster; seven daughters of Gold Dust Knight, a Nebraska State Fair winner of 1908; one daughter of Medoc, and others by Gold Dust Chief, Belle's Echo, Proud Ceres, and are bred to Red Knight, Red Duster, Mascot 91069, a young boar attracting much attention; Long Crimson I., Crimson Wonder 4th, both sons of Crimson Wonder 3d, and Medoc Jr., the champion of 1909. An offering of select sows and gilts in condition to go on and make good. Colonel Callahan, auctioneer. Send bids to Fred S. Larkin, of The Homestead. Catalog gives full details and may be had upon application to

E. J. BROWN, OSCEOLA, NEBRASKA.

HAGER'S DUROC JERSEY BROOD SOW SALE

Avoca, Iowa, February 12, 1910

45 Head YEARLING AND MATURED
SOWS and SPRING GILTS 45

AMONG the eight head of matured brood sows to be sold are daughters of Proud Advance, Jim Advance, Commodore, Belle's Wonder and Avoca King 2d. These are all bred to Peerless Chief, one of the greatest breeding sons of Ohio Chief. The gilts will be sired by Model Chief 3d, Tip Chief, I Am Crimson Wonder Again, Ohio Chief I Am, King Solomon and King's Col. These will be bred to Proud Col., a son of King's Col., and also to Massena Chief. It is the best offering I have ever put up at public auction. Col. F. F. Luther, Auctioneer. M. T. White, Field Man for Homestead. Write for my catalog at once. Address

A. F. HAGER, AVOCA, IOWA.

Phillips' Poland China Sow Sale

ON THE FARM NEAR

New Sharon, Iowa, Wednesday, Feb. 9th

The Best Bred Sow Sale of the Year

I have cataloged for this sale eight matured and tried brood sows, two fall yearlings and thirty-five gilts of March and April farrow. Most of the young things are the get of my great herd boar, On Exhibition, a hog whose pedigree is unsurpassed and whose size (he weighs 900) and quality are just as good. Those not of his get are bred to him. His daughters are bred to Dude's Wonder or P.'s I. X. L. The former is of popular prize-winning blood and the latter has a pedigree that has size at every point. Two of the biggest gilts to be sold this year have been cataloged as a special attraction. They are by Jumbo G. B., he by Jumbo. Don't fail to see them. You will want them if you get your eyes on them. This is the best, most valuable and most promising lot of sows I have ever raised. They cannot fail to suit those who want the best. Catalogs are now ready and may be had on application to the address given below. W. B. Duncan, auctioneer.

C. W. PHILLIPS, NEW SHARON, IA.

COOPER'S GREAT BRED SOW SALE

IN PAVILION AT EASTSIDE FARM, ADJOINING

HEDRICK, IOWA, THURSDAY, FEBRUARY 10, 1910

The most select draft of intensely-bred big-type Poland Chinas with big-type blood lines ever made in the corn belt, including twenty of the largest and most noted tried sows of the type and breed, the tops of many of the leading big-type sales the past two seasons. Forty head of big, growthy gilts, the progeny of the largest and most noted Poland China boars and sows in the world, sired by such boars as Big Ex, Chief Price, Superior Look, Jumbo, Chief I. X. L., Columbia's Chief, Osborn's Perf., Chief Jumbo, R.'s Pawnee Lad and other boars of note, and all out of big matured dams. The offering will be bred to and safe in pig from the service of boar, catalog will state. Most of the tried sows will be bred to Big Ex, the 1,070-pound, thirty-months-old son of the noted Pawnee Chief. Big Ex will have several gilts in the sale bred to Superior Look and Chief Price, a trio of big boars with but few equals, and no superiors, in the corn belt. The chance to buy the best of foundation stock or strengthen your herd by buying the best the breed affords. Strictly a high-class offering and no tail enders. Look up field notes for further information and send your address at once for the great catalog which gives complete descriptions and breeding of each lot, which will be mailed to those only who apply. Mention The Homestead when writing.

COL. W. B. DUNCAN } Auctions. **W. H. COOPER, HEDRICK, IOWA.**
AND ASSISTANTS

LIVE STOCK AUCTIONEERS.

The National Auctioneering School of America

ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

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SUNNY HILL, ILL.

LIVE STOCK AUCTIONEER

I AM thoroughly posted on all breeds of live stock. Breeder of Red Polled cattle and Duroc Jersey hogs. Write for terms and dates.

Geo. P. Bellows Auctioneer
Pedigreed Live Stock
Maryville, Mo.

CAREY M. JONES, Live Stock and Real Estate Auctioneer,

2856 Washington Blvd., Chicago, Illinois.
'Phone West 1228.

If you want to buy or sell a Farm, City Property or Subdivision, no matter where located, write for terms and dates.

W. D. STOLLER, Auctioneer
Live Stock a specialty. Address R. 6, Vinton, Ia.

THE BEST LOT OF POLANDS

TO BE SOLD IN NEBRASKA

THIS SALE SEASON, WILL UNDOUBTEDLY BE SOLD IN THE SALE
OF H. B. FRANCISCO, AT

Hastings, Nebraska, Thursday, Feb. 10th

There will be forty head—four tried sows, one fall yearling and thirty-five gilts—big, smooth, short-pasterned, good-footed individuals with good hams and well-made backs, breedy heads and not fat—just grown. The tried sows are Gem's Tec., Naomi's Model and Miss Made Right, the dam of Belle Nettle. The outstanding litter of any section are eight in number by Great Hadley, a Nebraska prize winner, Big Hadley-Big Tec. bred, out of Blue Belle, an Expander-Chief Justice sow. There are several other choice litters equally as strong—not a poor one in the entire offering. They are bred to King Mastiff 53032, a Nebraska first-prize winner of 1909, and Great Hadley, the former by Meese's Mastiff. The catalog is ready. The individuals will please the most exacting. Either be represented or present if possible. Send bids to Fred S. Larkin, of this paper. Colonel Doty, auctioneer. For catalog address

H. B. FRANCISCO, HASTINGS, NEB.

LIVE STOCK AUCTIONEERS.

MISSOURI AUCTION SCHOOL

DURING the successful progress of our school we have had thousands of letters from parties who were anxious to learn auctioneering, but could not leave home for so short a time as four weeks, and for this class of individuals we have formulated a Scientific Correspondence Course for study at your home, and should you ever wish to attend the school in person, the money you have paid on the Correspondence Course will apply upon the tuition here. Catalog Free.

WM. B. CARPENTER, TRENTON, MISSOURI.

ELWOOD J. PITTMAN

STERLING, ILLINOIS.

Fifteen years' experience
selling live stock.

Write for Terms and Dates.



N. G. Kraschel

MACON, ILL.

Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.

G. C. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere.
Reasonable terms. Have
pleased others, can please you.
Write for Dates.



FRED REPERT,

DECATUR, IND.

Live Stock Auctioneer.

Cattle Sales a
Specialty.....

Write for Dates and Terms.



H. L. Igleheart

Glendale, Kentucky,

Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

W. K. HENSS, WAYLAND, IA.

LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

LIVE STOCK AUCTIONEER

SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed. W. F. STRATTON, CAMBRIDGE, IOWA, Breeder Short-horn cattle and Duroc Jersey swine.

H. S. and W. B. DUNCAN

CLEARFIELD, IOWA,

LIVE STOCK AUCTIONEERS

Thoroughly posted in pedigrees and sales cried anywhere. Write us for dates.

C. C. KEIL, Auctioneer,

GRINNELL, I WA.

PEDIGREED STOCK A SPECIALTY.
20 YEARS' experience as breeder and auctioneer. Talk English and German. Write me at once.

Geo. W. Dykes Live Stock
Auctioneer.
DANA, ILL.

SILAS IGO, Indianola, Iowa
Live Stock Auctioneer. Write me for date.

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OPENS FEBRUARY 14, 1910.

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Aristocrat of Hogs
A \$50 sow that produces a litter of 8 pure Berks, two of which sold for \$67.50, is a good sow to tie up to.

BERKSHIRES
This is a type of Morgan Farm hog flesh—all purebred Berks. Morgan Hogs win laurels everywhere. Hardy and best of breeders. Command highest prices and biggest profits. 50 Red Sows now ready for sale. Be sure and write before buying.

MORGAN FARM,
Beloit, Wisconsin



PRINE FARM BERKSHIRES

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address

George S. Prine, Oskaloosa, Iowa.

HOLT'S PRIZE-WINNING BERKSHIRES

THE records of leading state fairs show the superiority of my stock. Am pricing the tops of my boar crop by Matchless Premier and Governor, by a son of Imp. Lord Minting. Write for prices. Bred sow sale in February. W. R. Holt, Falls City, Neb.

Choice Berkshires for Sale

JUSTRE'S Combination J. 2d, prize boar at Iowa State Fair, and gilts sired by him, open or bred; also two tried brood sows at reasonable prices Orlando Jacobs - Mediapolis, Iowa.

DUROC JERSEY SWINE.

Pleasant Lawn Duroc Jersey gilts, safe in pig for March and April farrow; good bone and good color. Frank Warway, Mt. Pleasant, Iowa.

DUROC JERSEY SWINE.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and
Bourbon Red Turkeys.ALL STOCK PRICED REASONABLY.
Write Your Wants.**King of Cols. Show Boars**We are offering four junior yearling show
boars by King of Cols., one of them a full
brother to Chief's Col. One good junior year-
ling boar by King of Cols. II. Visit us or
write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

DUROCSWE are breeding a string of sows and gilts for our
winter sale that you'll like. All the popular
blood lines. Always trying to better the best.
Watch this space—we'll tell you more about it.

C. W. HUFF, MOKDAMIN, IA.

**25 Duroc Jersey
BROOD SOWS**FOR SALE at private treaty. Sired by Mammoth
Critic, Belle's Chief I Am and Link's Ohio
Crimson. These sows are bred for March and April
farrow. Prices reasonable.

T. J. LINK, Winterset, Iowa.

**CHIEF'S COL.
BOAR PIGS**OUT of the great brood sow, Helen Blazes, and
sows by Ohio Chief, Proud Advance and
other great boars. Pigs ready to ship. Address for
price and description.

H. E. Browning, Kersman, Illinois.

**Do You Want a Well Bred
Duroc Jersey Boar**I HAVE them and they are good, sired by such
noted boars as Crimson Wonder Again,
Guthrie Chief, I Am Advance, Golden Model
2d and others. Write me for prices on these boars.

GEO. H. MILLER, CHARITON, IOWA.

**Helen's Chief
High Notcher**Glad Col. and King's Col. head my herd
of Durocs. I will sell King's Col. by King
of Cols. Write for price.

M. A. KRASCHEL, MACON, ILLINOIS.

Duroc JerseyFall pigs sired by COL'S KING out of
dams by Arthur's Choice, Proud Advance,
Inventor and Tokio Paul. I will be away from
home until April 1st, so do not write me until
that time.

ARTHUR L. PARKS, LELAND, ILL.

Crimson Wonder I AmSIX winter boars by this great sire now ready to
go out. All of them crackers. Three fall boars
by American Crimson Wonder. Nothing but show
yard quality to offer. U. G. Davidson, Scranton, Iowa.**Duroc Jersey Boars, \$25 Each**20 BIG-BONED fellows, sired by Col. Chief and
a son of Russell's Critic. These are the pick of
150 head. \$20 while they last. Address

J. P. PETERSON, HERMAN, NEBRASKA.

Duroc Jersey GiltsA FEW choice gilts of good breeding, out of
matured sows, and bred to Royal Advance
81963, Royal King and Model Duke (son of Golden
Model 2d). C. E. Longnecker, Maxwell, Iowa.**YOUNG'S DUROC JERSEYS**HEADED by Kauts Crimsou, an outstanding boar
of Kant Be Beat and Crimsou Wonder breed-
ing. Will price good males of March farrow; also a
fall yearling of great promise. Write for price and
description. E. K. Young & Son, Havelock, Neb.**DUROC JERSEY SPRING PIGS**SURED by King Orion, Wonder Boy, Peter The
Great and Bartlett's Tip Top. Prices reasonable.
Correspondence solicited.

EVERETT BARTLETT - COLUSA, ILL.

KEAN'S DUROCBred gilts, popular breeding
at moderate prices. Address
FRANK KEAN, MT. PLEASANT, IOWA.Deyoe Bros., Duroc Jerseys, bred sows for sale.
Ohio Chief and Advancer strains; bred to a Col. boar.Speirs' Durocs Bred sows for sale; Ohio Junior
38521, Silver King, Red Eagle,
Dandy Boy boars in service. G. W. Speirs, Hedrick, Ia.MIDLAND Durocs—8 gilts and 2 sows, bred for
April farrow, for sale. The big-boned, growthy
kind at moderate prices. S. J. Butts, Mason City, Ia.**JOHN GODDARD'S SALE
Duroc Jersey Brood Sows****HARLAN, IOWA, FEBRUARY 7, 1910
40 Head Tried Sows and Gilts 40**THERE will be two daughters of Model Chief in my sale. Also daughters
of the great Muncie Chief, Clearmont's Model, Belle's Chief, Ohio Chief,
Valley Chief, Golden Model 2d, Tientsin, Model Chief 3d, Crimson Wonder
Again, Ohio Chief II, and other noted sires. These will be bred to Goddard's
Col., a son of Prince of Cols., and he is considered one of the best Col. boars
in the state. Also to Massena Chief, a full brother to Valley Chief, and
Kruger Advance. I am putting up one of the best offerings of the season.
Write for my catalog at once. Address**JOHN GODDARD, HARLAN, IOWA.**
Col. F. F. Luther, Auct. M. T. White, Field Man for Homestead.**JAMES COCKERTON'S
BIG-TYPE POLAND CHINA SOW SALE
WHITING, IOWA, FEBRUARY 8, 1910****48 Head--29 Yearling and Matured Sows 48
19 Head Choice Gilts**I AM selling a splendid lot of big-type, big-boned sows, sired by
the great boars, Standard Chief 2d, Long Tom, Winning
Dude, Dorr's Temptation, Long Chief and Monarch Jr.,
and out of my very choicest big-type sows. If you want something
really first class in big-type sows, I have them in this sale. Bred
to my great boars, Sioux Chief and Longfellow. Write for my catalog.
Cols. H. S. Duncan and Jas. Jensen, aucts. M. T. White, field man.**JAMES COCKERTON, WHITING, IOWA.****O. S. LARSON'S
DUROC JERSEY BRED SOW SALE
LOGAN, IOWA, THURSDAY, FEB. 10, 1910****40 HEAD 10 YEARLING AND AGED 40
SOWS--30 GILTS**THESE sows are bred to my two great boars, KING THE COL.
and CRIMSON THE WONDER. The gilts are a "corking"
good lot from beginning to end. They are sired by Orion's Suc-
cess, Fancy King, Savannah Belle's Chief, Huff's Advance
and Belle's Chief I Am. I am going to offer a splendid lot of
sows and want you to attend my sale. Catalogs now ready. AddressCol. F. F. Luther, Auct. M. T. White, Field Man. **O. S. LARSON, LOGAN, IA.****R. W. HALFORD'S BIG-TYPE
POLAND CHINA BROOD SOW SALE
MANNING, IOWA, FEBRUARY 11, 1910****40 HEAD--THE BIGGEST OF THE BIG--40**MOST of the gilts will be bred to Jumbo's Prospect, the highest
priced boar of 1909, and one of the greatest boars I have ever
owned. The gilts are mostly sired by Long Chief, Chief Price 2d
and Osborn's Chief. The gilts will weigh from 300 to 350 lbs., and
are cracker jacks. My offering will be one of the greatest offerings
of big-type Poland Chinas, with quality combined, that will be sold
this year. Write for my catalog at once and mention Homestead.

Col. H. S. Duncan, Auct. M. T. White, field man for Homestead

R. W. HALFORD, MANNING, IOWA.

DUROC JERSEY SWINE.

GOLDEN MODEL heads herd, assisted by Ad-
vancer 1st. Will sell 8 head Golden Model sows
in the Olson Bros. sale at Woodward, Ia. Jan. 31st,
bred to Advancer 1st. Five are litter sisters to my
show herd of 1909, which won 11 ribbons at Iowa, Iowa
Interstate, Neb., Minn., Wis. State Fairs; 4 1st, 3 2d,
2 4th and 2 5th prizes. O. A. Olson, Madrid, Iowa.

DUROC JERSEY SWINE.

BRED sows for sale; safe in pig by Crimsou Ram-
bler, Model Chief 9th and Crimsou King. Prices
reasonable; sows guaranteed. Jno. Justice, Ankeny, Ia.DUROC bred gilts, sired by Ponca Chief by Belle's
Chief; not large, as I have been short of feed.
Priced right. F. A. Ham, Saronville, Nebraska.

DUROC JERSEY SWINE.

**The Sugar Loaf
Duroc Jersey Herd**Col. S. and Ohio Chief's Banner
HEAD HERDA few gilts bred to the above boars for sale. Address
C. C. Cushman, Mgr., Chillicothe, Ohio.**HIGH-CLASS DUROC JERSEY
BRED SOWS FOR SALE**Daughters and granddaughters of Ohio
Chief and Kant Be Beat bred for early far-
row to my Colonel boar. These are good.
Will not hold a sale and am selling them
privately. Address

J. D. McDERMOTT, WIOTA, IOWA.

Elder's DurocsKING OF COLS. II., G. C.'s COL. and 36 of
Grant Chapin's best brood sows were purchased
and from these I have 125 choice spring pigs. Herd
boars and choice breeding sows will be my specialty.
Write your wants.

FRANK ELDER, GREEN, KANSAS.

**REEDS'
DUROC JERSEYS**BOARS all sold. We now offer high-class bred sows,
sired by Model Chief 94969 and Advancer
28773, and bred to such noted boars as Model
Chief 44959, Advancer 28773, the grand
champion, Model Chief 2d 53753, and White
Hull King 15977.

C. W. & W. L. REED, ROSE HILL, IOWA.

Bargains in Bred SowsSPRING, \$25; fall yearlings, \$30; old sows, \$45 to
\$50. Our herd contains the blood of Tip Top
Notcher, Crimsou Wonder Again, Top Notcher
Again, Proud Advance, Orion, Educator and other
noted sires. Our sows are noted for producing large
litters of strong, vigorous pigs. A few good spring
boars left at \$20 each.

WOODLAWN FARM, STERLING, ILL.

**W. J. HARTUNG
MAXWELL, IOWA,**Offers 25 choice Duroc sows for sale, sired
by S. E.'s Jr. Jim, Advancer IV., Golden
Model II., and bred to W. J.'s Colonel by
Prince of Colonels and son of Golden Model
II. for March and April farrow. Priced from
\$25 to \$50. Write if you mean business.**DEFENDER and
KING WONDER**Two of the greatest sons of King of Cols.
head my herd of Duroc Jerseys. They are
assisted by Ransom Chief by Ohio Chief out
of the \$1,200 Helen Blazes III. Write me
for what you want.

ERNEST PANCAKE, RANSOM, ILLINOIS.

MODEL TOPHEADS herd, assisted by King Wonder. Both of
these boars are State Fair champions and pro-
ducers of show animals.

Bardwell & Barnard, McHenry, Ky.

Bred Sows for SaleEXTRA good Duroc Jersey gilts of good strains of
breeding, raised for size, and bred for early lit-
ters to a son of W. L. A.'s Choice Goods. Will also
sell my herd boar, Porter's King of Cols. Write for
prices or come and see them.

J. C. PORTER - OGDEN, IOWA.

I HAVE 75 SPRING GILTSTHAT I am pricing to sell within the next thirty
days. Sired by Col. Chief, Fancy Critic and
others. J. P. Peterson, Herman, Nebraska.**Duroc Jersey Sows for Sale**I HAVE a few choice bred sows for sale at private
treaty, and they are bred to my noted prize-win-
ning boars. C. E. VEAK, ESSIX, IOWA.**\$25-DUROC JERSEY BOARS-\$25**WE have a grand, good lot of fall and spring boars
for sale, sired by Critic's Banker 64757, out of
Junior Jim, Ohio Chief and Kant Be Beat sows.

VON SEGGERN BROS., WISNER, NEB.

25 DUROC JERSEY BRED SOWS FOR SALESURED by King Solomon II., Advancer's Choice;
S others of equal note. Bred for March, April and
May farrow. Prices reasonable. Write us at once.

Address A. Lentz & Son, Pierson, Iowa.

J. D. Wright, West Liberty, Ia.OFFERS spring pigs of either sex at bargain
prices. Fashionable families. Individual ex-
cellence to suit discriminating buyers. Write for
prices and descriptions or visit herd.**For Sale—Duroc Jersey Sows and Gilts**

Bred for April farrow.

L. L. WOODS, GRINNELL, IOWA.

THE GREAT OHIO DUROC JERSEY BRED SOW SALE CIRCUIT

350

OF THE BEST SOWS EVER SOLD IN ONE WEEK BY ANY SALE
CIRCUIT. FROM THE HERDS THAT HAVE PRODUCED MORE
WINNERS THAN ANY LIKE NUMBER OF HERDS IN AMERICA

350

60 HEAD BRED SOWS 60 —AND GILTS—

TO BE SOLD ON

Monday, February 7, 1910

Yellow Springs, Ohio

20 by Kelly's Pilot Wonder, 7 by Col. S., 1 Red Wonder, 1 King of Cols., 2 Prince Wonder, 2 Orion Chief, 2 Cherry Chief, 2 Chief's Col., 1 Macon Chief, 2 Golden Rule, 1 by Kansas Col. Others of equal breeding. The choicest bunch we ever offered. Twelve bred to Col. S., 20 to Kelly's Pilot Wonder, the rest to Royal Heir by King of Cols., Gold Bond and Advancer II. Sale at Whitehall Farm. Cols. H. L. Igleheart, Fred Reppert and assistants, auctioneers, Carlos C. Palmer, Homestead field man. Write for catalog to

WHITEHALL FARM, YELLOW SPRINGS, O.

J. E. DRAKE, MANAGER

60 HEAD BRED SOWS 60 —AND GILTS—

TO BE SOLD ON

Tuesday, February 8, 1910

At Dayton, Ohio, Fair Grounds

Two by Carl's Col., 6 by W. & F.'s Proud Advance, 10 by Golden Rule, 10 by High Model. 1st and 3d prize junior yearlings at Ohio State Fair go in this sale. One by Tippy's Col., 13 by Good E Nuff, 3 by Golden Rule, full sisters to Choice Rule, 4 by Our Pal by King's Pal. These will be bred to High Model, Good E Nuff, Choice Rule, Nugget, 1st and junior champion Ohio, and Col. Ira de Jack by Tippy's Col. Sale at Dayton Fair Grounds. Col. H. L. Igleheart and assistants, auctioneers. Carlos C. Palmer, Homestead field man. Write for catalog to

WATT & FOUST, CEDARVILLE or XENIA, O.

65 HEAD BRED SOWS 65 —AND GILTS—

TO BE SOLD ON

Wednesday, February 9, 1910

Tippecanoe City, Ohio

One by Tippy's Col., 2d at Springfield, 1909, best fall sow I ever raised; 3 fall sows by Cherry Chief, 3 by King of Cols., 2 by Prince Wonder, 2 by Muncie Chief, 1 B. & C.'s Col., 5 Orion Chief yearlings, 3 by John's Ohio Chief, 1 by Hartford's Prince of Cols., 1 by Model Top, 1 by Tippy's Col., 3 by Red Wonder, 2 by Joe Orion. These are bred to Tippy's Col., Cherry King and Joe Orion. Sale at farm near Tippecanoe City. Col. H. L. Igleheart and assistants, auctioneers. Carlos C. Palmer, Homestead field man.

IRA JACKSON, TIPPECANOE CITY, OHIO

50 HEAD BRED SOWS 50 —AND GILTS—

TO BE SOLD ON

Thursday, February 10, 1910

At Dayton, Ohio, Fair Grounds

Six sows by King of Cols., 8 by Premier Col., 5 by King De Col., and others by H. L.'s Chief, The Chief, Cherry Chief, Stewart's Col., High Model, High Notcher and others. They consist of 5 aged sows, 9 yearlings and 38 spring gilts; 15 are bred to Premier Col., the balance to S. E.'s Model Top, Stewart's Col., H. L.'s Chief, King De Col. and High Model Jr. Col. H. L. Igleheart and assistants, auctioneers. Carlos C. Palmer, Homestead field man. Write for catalog to

S. E. MORTON & CO., DAYTON, OHIO

55 HEAD CHOICE SOWS 55 —AND GILTS—

TO BE SOLD ON

Friday, February 11, 1910

Osborn, Ohio

One by Cherry Chief out of King of Cols., dam a cracker-jack bred to Kelly's Pilot Wonder, 4 by Grand Success, 7 by Chief to Be, 10 by Kruger's Corrector, 1 by Orion Model, 2 by John's Ohio Chief, 10 by Whitehall Wonder, 1 by C. D.'s Col. by Prince of Cols. These are bred to their great show boars, The Chief Col. by Cherry Chief, Kruger's Surprise, Chief to Be, Whitehall Wonder and Fancy Col. Sale at farm at Osborn. Col. Igleheart and assistants, auctioneers. Carlos C. Palmer, Homestead field man. Write for catalog to

MAHAN BROTHERS, OSBORN, OHIO

60 HEAD BRED SOWS 60 —AND GILTS—

TO BE SOLD ON

Saturday, February 12, 1910

Middlepoint, Ohio

12 yearlings and 48 gilts. Sows are by High King, C. & R. Col., Corrector Echo, Richland Col., Prince of Cols., Muncie Chief, King of Cols., High Notcher, Prince Wonder, Prince Model, Notcher Top, Lincoln Top and others of good breeding. They are bred to High King, Richland Col., C. & R. Col., Prince Orion, J. C. Col., Corrector Echo. Bred for March and April farrow. Our motto: "The best is none too good." Sale at farm, near Middlepoint. Cols. Fred Reppert and H. L. Igleheart, auctioneers. Carlos C. Palmer, Homestead field man. Write for catalog to

E. C. STEMEN & SON, MIDDLEPOINT, OHIO

Free entertainment at Phillips' House, Dayton, Ohio, for the entire week's sales. Bids for any of these sales sent to Carlos C. Palmer, Homestead representative, in care of Phillips' House, Dayton, Ohio, will be carefully handled. Send to each of the above breeders for a copy of his catalog, kindly mentioning Homestead.

McCullough & Johnson's SCOTCH-BRED

SHORT-HORN

SALE

TO BE HELD ON THEIR FARM

TWO MILES NORTH OF LESTER, IOWA,
FIVE MILES SOUTH OF HILLS, MINN.,

TUESDAY, FEB. 8, 1910

WE have cataloged 50 head of our best cattle for this sale, and we have bred practically all of the younger animals, and this gives us pleasure. The offering consists of one imported cow, Imp. Evira's Rose 22d, and her daughter, by Imp. Nonpareil, with a heifer calf at foot; also her bull calf one year old, by Grand Baron 2d. There will be nine two-year-old heifers, ten one-year-old heifers and eight yearling bulls. The balance are all cows of breeding age, 12 with calves at foot, and all of the females old enough have been bred to Major Mysie, a straight Scotch bull. The offering will be in a nice, smooth condition, and all in good flesh, and have all been tested for tubercu-losis. The yearlings and two-year-olds are an exceptionally fine lot, and mostly the sons and daughters of Grand Baron 2d and Vulcum, both exceptionally good Scotch bulls. There will be free accommodations from Hills, Minnesota, and from Lester, Iowa, to the farm. For catalog; address

McCULLOUGH & JOHNSON, STEEN, MINN.
COL. GEO. P. BELLOW, AUCTIONEER.

DUROC JERSEY SWINE.

25 Duroc Jersey Bred Sows For Sale

I AM offering a choice lot of bred sows and gilts at private sale, bred to Iowa Model 24215 and Fancy Orion S6301. These sows are sired by the leading boars of the breed. Prices reasonable. Write me at once. Address **MARK W. EDDY, FONTANELLE, IOWA.**

HARDING'S HERD HEADERS

WRITE me now if you want **DUROC JERSEY BOARS**. I have several yearlings by Ohio Chief, out of Prond Advance dams; one yearling by Ohio Chief out of Nebraska Belle; 15 fall boars by Crimson Critic, and a grand lot of spring boars. Address **R. J. HARDING, MACEDONIA, IOWA.**

FRIGHTON FARM DUROCS

LIMITED number of aged sows, fall and spring gilts for sale. Descendants of Tolstoy, Pericles, Achiever. Bred for March and April farrow to Walter Model by Golden Model 2d and Gen. Moon, a grandson of Crimson Wonder I Am. For prices and further description, write to **TUFFMAN & CHAPMAN, WASHITA, IOWA.**

Chapin & Nordstrum's Durocs

LITTERS by King of Cois. II, G. C.'s Col., G. C.'s Kansas Col. and Kelley's Pilot Wonder. Dams by Model Chief Again, C. E.'s Col. 2d, W. L. A.'s Choice Goods, Morton's Decree, etc. Three yearling and 3 fall boars for sale; good ones. Also some bred gilts for fall litters. **Chapin & Nordstrum, Green, Kansas.**

POLAND CHINA SWINE.

FIFTY LARGE-TYPE, BIG-BONED BRED SOWS 25 EXTRA GOOD BOARS

TRIED sows, fall yearlings and spring gilts, sired by P. W. Giant, Hadley, Jumbo and Long King. Bred for March, April and May farrow to Hadley, Jumbo and Victor. Last named boar sired by Big Victor, second aged boar at Lincoln, 1909. They are smooth and well grown and in fine condition. Sold 900 head in seven years; shipped to eight states, many on mail order, with perfect satisfaction to buyers. Can furnish testimonials from all buyers. My herd boars are the tops of the best herds of the big type. Farm 1½ miles north of town. Pedigrees time of sale. Write name and address plainly to **F. W. McINTYRE, Route 5, RED OAK, IOWA.**

PODENDORF'S BIG-TYPE

Poland China Bred Sows

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. **HELD BROS., HINTON, IOWA.**

BIG VICTOR SOW SALE FEBRUARY 4

I WILL sell 45 head of big-boned, big-type Poland China sows in my February 4th sale, bred to Big Victor, Guy's Price 2d and Big Tom. Write me early for catalog. Address, mentioning this paper, **D. C. LONERGAN, FLORENCE, NEB.**

20 Head of Bred Gilts

OF the big type, bred to Big Price 154369, one of the good big ones. A Chief Price bred hog, with size and quality galore. Prices right. **SCHAIN & KEEP, ATLANTIC, IOWA.**

POLAND CHINAS

FORTY BRED SOWS—BIG TYPE
BIG-TYPE Polands with big-type blood lines sired by Napoleon Chief 84169 and bred to Corn Belt Expansion 153155 for March and April farrow. Write for prices and des. **C. K. HANSON, Nashua, Ia.**

Schmieder's Big Poland Sows

A FEW choice bred sows and gilts, bred to A Schmieder's Big Surprise and King Corrector; sired by Long Dude and King Corrector. **JOHN SCHMIEDER, REMSEN, IOWA.**

CHAMPION BERKSHIRE SOW SALE

AT ROSEDALE FARM, AMES, IOWA,

FRIDAY, FEB. 11, 1910

40 HEAD RICHLY-BRED SOWS—30 YEARLINGS AND AGED SOWS 40 10 GILTS

INCLUDED in this offering are daughters of Lord Premier, Masterpiece, Romford Premier, Cock Robin 11th, Premier Belle's Duke, Rival Lee, Lord Premier II., Premier Longfellow, University Lee, Grand Master 3d, Star Rival and others of equal note. They are bred to Premier Belle's Duke, grand champion Iowa State Fair, 1908, sire of first-prize barrow over 12 and under 18 months; grand champion Berkshire barrow, one of grand champion pen, first-prize pig under six months and first-prize pen under six months at International, 1909. Others are bred to Baron Duke 154th, a great son of Baron Premier 40th, dam by Lord Premier. The greatest lot of Berkshires ever offered for sale from my noted prize-winning herd. Bids sent to Dante M. Pierce, Homestead representative, in my care, properly handled. Write for catalog, mentioning Homestead, to

J. W. Ogle, Ames, Iowa.

Cols. Reppert and McMillan, Auctioneers.

POLAND CHINA SWINE.



WELLMAN HERD OF POLAND CHINA HOGS AND SHORT-HORN CATTLE.

25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd headers a specialty. 10 head of choice young bulls, 8 to 15 months old; all deep reds; sired by Masterlode 26573, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 24 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address **C. F. SHAFFER, R. R. 4, WELLMAN, IOWA.**

50 Big-Type, Big-Boned Bred Sows

WE are offering 50 head of extra fine, big-type, big-boned, quality kind. These are sired by our invincible trio of big boars, viz.—W.'s Major, 45237, Young Look 4772, Pawnee Price 47721, and bred to above-named boars and a grandson of Grand Look and Expansion. Twenty-one sows farrowed 210 pigs in 1909. For size, quality and prolificacy, these cannot be beaten. Guaranteed as described. Priced right. Call or write. **WILLIAMS BROS., Route 3, VILLISCA, IOWA.**

Sixty Poland China Bred Sows

FIVE sired by Impudence, 4 by Keepsake, 15 by Importance, 15 by Kemp's Leader, 2 by Keep Ahead and others. Sows are bred to Importance, Reflector, King Wonder, Reflector II., and Mastodon III. 15 spring boars for sale, sired by Kemp's Leader, Reflector and Importance. **Oliver Whitteman, Biggsville, Ill.**

OAKSIDE HERD of "Monster Pattern" POLAND CHINAS

HERD headed by Monster Pattern (weight 360 pounds at seven and one-half months old, 800 pounds yearling, eleven-inch bone), Oakside Chief (750 pounds yearling, 900 pounds at maturity). Herd sows large and prolific. Open and bred sows for sale at very close prices. Ask for catalog and get posted. There is a "tip" in it to every prospective buyer. Direct shipping facilities. Address **A. S. JUCKETT & SON, Oakside Farm, Route 2, Fremont, Nebraska.**

SELECT BRED SOW SALE FEBRUARY 10, 1910.

BIG-TYPE Polands, with big-type blood lines. 20 bred sows, the largest and most noted of the breed. 40 big gilts, the progeny of the largest Poland boars and sows in the world. Bred to boars of equal merit, such as Big Ex., the 1,070-pound son of Pawnee Chief; Chief Price, the 800-pound yearling; Superior Look, the most noted son of Long Look. Send your address early for the catalog. **W. H. COOPER, HEDRICK, IOWA.**

ELLERBROEK'S POLAND CHINAS

50 Bred spring and fall gilts of the large-boned, lengthy type. These gilts are bred to Giant 2d 151933, A Wonder 143121, Big Bone 2d 151743. Their sires are A Wonder Next 148557, A Wonder 143421, Long Price 2d 146679, and others. Their dams are by Chief Price, Longfellow 3d, A Wonder 107353, etc. Come and see my stock or let me know your wants. Farm adjoining 3 railroads, 2 blocks from depot. **PETER ELLERBROEK, SHIELDON, IOWA.**

Poland China Bred Sows

WE have for sale some choice, tried, aged sows, bred for March and April farrow; also 25 growthy last March gilts, sired by several different herd boars, bred for March farrow. Write for description and prices. **Bridgford & Nesbitt, R. 3, Aledo, Ill.**

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MATURED sows, fall yearlings and spring gilts, with both size and quality, and carrying a good strain of blood as the breed affords. In good drift. Bred to Alderinan 151019 (second at Iowa State Fair) or J. H.'s Hadley. Low price and high quality. **J. H. WATSON, MADRID, IOWA.**

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O. I. C. THE WORLD'S BEST HOGS Bred Gilts and Sows REGISTERED FREE

Roomy, growthy, strong, prolific, stylish. Breeding and prices right. Write me today. **I. M. FISHER, Box H, Hastings, Nebraska.**

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AM offering the strongest lot of spring boars sired by Kerr Dixon and Kerr Solomon, and out of Kerr Garnett, White Oaks and other equally as well bred sows. Get price and description. Address **Chas. W. Crosier, Juniata, Nebraska.**

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CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. **E. J. Trumbauer, St. Charles, Mo.**

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Tuesday, February 8, '10
S. E. EAKLE & SONS
Prophetstown, Illinois

45 HEAD--TOPS OF THE HERD

THIS is the best offering yet made from our herd. Consists of five aged sows by PROUD ADVANCE, ROY ADVANCE, and KEEPON III.; fifteen fall yearlings by MODEL JIM by Tientsin and PROPHETSTOWN BOY by King West; twenty-five spring gilts by GOLD CLOUD, COL. KING, MODEL WONDER, MODEL AGAIN, MODEL CHIEF. They are bred to Golden Model VI. by Golden Model II., Col. Browning by Chief's Colonel, S. E.'s Model by Model Chief. A strictly useful offering in every respect. Write for catalog, mentioning The Homestead, to

S. E. EAKLE & SONS,
Prophetstown, Illinois.
AUCTIONEERS---Cols. Reppert, Buck, Pittman and Plumley.

Thursday, Feb'y 10, '10
BUCK AND MILLER
Crampton, Illinois.

50 HEAD-TOPS OF TWO HERDS

EDUCATOR'S Advance by Educator, dam Proud Fancy. Quite a few of the offering are bred to this great young fellow and he is a show prospect. Others are bred to Prince Wonder Again by Prince Wonder, dam Helen's Model by Ohio Chief, dam Helen Blazes III. This fellow is another show prospect and a litter mate to Prince Wonder II., the boar Mr. Pancake kept in this herd. The major portion of this offering are bred to this fellow, and Col. King's Wonder, a great son of King of Coloneis. While sows by Ohio Chief, Ransom Chief and Harding's King of Cols. are bred to Defender and Crimson Wonder III. Others are by Choice Rule, champion Ohio State Fair, 1908; Gold Cloud, champion Illinois State Fair, 1904; Tip Top Notcher, champion World's Fair, St. Louis; Educator; Col. King by King of Cols.; Big I Am by Buddy K. IV.; S. E.'s Model, full brother to Model Chief II., champion Iowa, 1908; Manley Orion's Son by Manley Orion; Ohio Chief's Last and others. Write for catalogs, mentioning The Homestead, to

GEO. B. BUCK, SUNNY HILL, ILLINOIS
or **GEO. L. MILLER, COAL VALLEY, ILL.**
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SEND BIDS TO DANTE M. PIERCE, HOMESTEAD REPRESENTATIVE, IN OUR CARE.

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Mear's Chester Whites
Full boars and a great string of pigs by
NEPONSET ED. 16711

Are ready to ship any day. All are strictly high-class. Write or come.

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AMERICAN HERD OF IMPROVED CHESTER WHITES

Thirty choice spring gilts for sale, bred to Attractor 19289, a boar of extra length and bone, for March and April farrow. Call and inspect them or write for prices and descriptions.

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25 FALL PIGS FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Aledo Belle and Delta Girl. These pigs will be priced worth the money.

E. L. NAGLE & SON, Deep River, Iowa.

BROOD SOWS—Reserving nothing but the aged sows; will let go best stuff I have raised. Bred to such boars as Joker, that has won more premiums than any hog living or dead. A "Triumph" hog that sold for the largest price of any hog of the breed. Weighed at 19 months, 720 lbs., and two extra good young hogs. J. H. Mahannah, North English, Iowa.

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White brood sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address S. J. Philson, Harlan, Iowa.

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Write me for choice stock of either sex for breeding stock, and show stock, a specialty.

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SCARFF'S O. I. C.'s

AM offering a fine bunch of O. I. C. males and gilts with extra length and bone, sired by sweepstakes boar, Norway Chief, and Ohio Chief. Prices \$20 and up. Write for descriptions.

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BOARS all sold. Have a fine lot of yearlings and gilts safe in pig to as good boars as money can buy. Anything you want sent on approval.

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Iowa Herd of Improved Chester White Swine

40 Aged sows for sale, reasonable, sired by such noted boars as Monarch Jr., Jerry S., Captain, Col. Sutton, Chief Commander and Allright. These sows will be bred to White Rock and Christopher 1st; latter won first and champion, Iowa State Fair, 1908; first and champion, Nebraska and Illinois State Fairs, 1909. Also two aged boars and a number of spring males and gilts. If in need of anything in this line, write me today or visit my herd. I ship on approval; if not satisfied, no sale. Mention Homestead. Thos. P. Kent (Successor to Geo. H. Lawshe), Rt. 2, Walnut, Iowa.

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 24 5465, champion Iowa State Fair, 1909, and Minnesota State Fair, 1908; and Modeler 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented.

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WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.

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Stock of all ages for sale and of fashionable families. Write

GEO. LIPPERT
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We Have for Sale

Spring boars ready for service, sows either bred or open, young pigs in pairs or trios no kin, a fine bunch of gilts either bred for spring or open; prices reasonable. Write us before you buy.

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25 Head of Spring Boars
5 Head of Yearling Boars
All good ones and guaranteed breeders.

Prices reasonable.

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SEAMAN'S Red Polled Cattle, 50 h'd, the equal of any ever sold in Ia. 7 yrlg. and 2-yr.-old bulls, 40 to 50 cows and helpers of the greatest milking families known to the breed. Part of the old W. H. Seaman herd, Davenport, Ia. Visitors can be shown 125 head of as good Red Polls as can be found in U.S. Gus C. Seaman, R. 5, Davenport, Ia. Telephone to farm.

SPECIAL OFFERING OF RED POLLS

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YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. Fred Tschudy & Sons, Monroe, Wis.

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Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 21. They are sired by Glenwood's Stranford 9386, a son of Stranford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls.

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They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

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TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls. Headlight and Brawley Lad. For description and prices, address

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Sired by Carter's Choice Goods and out of imported cows of choicest breeding. Also some Big 4 Poland China fall pigs for sale, either sex. Come, or write for what you want.

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I AM offering a splendid lot of young Scotch bulls for sale, sired by American Goods, a son of Imp. Choice Goods and Baron Kenr 3d. Strictly all right and prices reasonable.

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SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

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HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

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6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address

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20 Short-horn bulls for sale, of serviceable age. All good colors and choice breeding, and well grown. Prices right.

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I AM offering one good Short-horn bull and one good Polled Durham bull for sale. I am pricing these bulls where anybody can afford to buy. Address

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DUROC SALE

SOWS AND GILTS BRED

FAIRVIEW, KAN., WEDNESDAY, FEB. 9th

40 Head Large, Growthy Gilts, As Good As Any Grown

J. B.'s King of Cols. by King of Cols., out of an Ohio Chief dam; Double Rule, grandson of Golden Rule; Monarch's Choice by Monarch, a Protection-bred boar, and out of a W. L. A.'s Choice Goods dam; Lincoln Top Jr. by Lincoln Top, and Hero by Corrector's Hero are the sires. They are bred to Crimson Rule 91975, a Crimson Wonder-Golden Rule boar; Monarch's Choice 91977 (see above), and Pride's Col. 91979 by J. B.'s King of Cols. and out of a Fairview Chief dam. All for early litters. I think I am selling as great a string as sells this year. Every one a high-class individual. Send for my catalog and come to the sale if possible. Col. C. H. Marion, auct.

A. T. Cole representing this paper. Address

J. B. DAVIS & SON, FAIRVIEW, KANSAS.

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TO CLOSE AN ESTATE

Will be sold at the Stock Pavilion at University Farm

MADISON, WIS., FEBRUARY 19, 1910

ENTIRE HERD OF 100 HEAD---WE HAVE THE BEST

Daughters of the following standard bulls are included: De Kol 2d's Paul De Kol No. 2, Sir Johanna Friend Clothilde, De Kol Admiral Paul, Johanna De Pauline 2d's Lad, Princess Sir Ormsby, Aaggie Cornucopia Pauline Count, De Kol Admiral Paul 2d and Sir Ormsby Hengerveld De Kol. No other herd contains daughters of so many good bulls. The cows and heifers which are bred have been bred to De Kol 2d's Paul De Kol No. 2, sire of thirty A. R. O. cows; Sir Johanna Friend Clothilde, sire of sixteen A. R. O. cows, and Madison Sir Ormsby, whose dam, Duchess Ormsby 3d's Butter Girl, her dam and her grandam average 4.88 per cent fat, making him the richest butter-bred bull in the world. Catalogs ready Feb. 7th.

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DISPERSION SALE OF HIGH-CLASS, DOUBLE-STANDARD

POLLED DURHAMS

THE PROPERTY OF J. J. HOLLAND

At the Farm, 2 1/2 Miles South of Oxford, Iowa, at One O'Clock P. M.

TUESDAY, FEBRUARY 15, '10

Col. C. C. Keil, of Grinnell, Iowa; Col. C. F. Doty, of Oxford, Iowa, Aucts.

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We Want Registered Bulls

SHORT-HORN, HEREFORD, GALLOWAY and ANGUS cattle sold on commission. We need bulls at once to fill our orders. Write us immediately and consign your bulls to us at once. Address

A. J. BRAGONIER & SON, SOUTH OMAHA, NEBRASKA.

Choice Short-horns at Bargain Prices

CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fame 197980, and bred to my Cruickshank Flora bull, Narcissus King 239586. One extra good bull 16 months old by Royal Fame; 14 younger bulls, mostly by Narcissus King. A choice lot to select from at bargain prices; singly or car load. Address

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35 SCOTCH
SHORT-HORN BULLS

FOR SALE—From one to two years old, of the blocky, beefy type; herd headers also. 25 heifers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address

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S. H. THOMPSON'S SONS
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A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

Two Fine Yearling Scotch-Topped Short-horn Bulls
ONE Polled Durham; all reds; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live-and-let-live prices.

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SCOTCH BULLS I have for sale several richly bred and splendid individual bulls, reds and roans. The herd is headed by the Scotch bulls, Ringmaster and Choice Prince. Nine straight Scotch bulls, two Scotch topped, now ready for service. Farm adjoins town. Address

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OUR farm manager, having been with us fifteen years will leave March 1st, so we are obliged to sell our entire herd of registered Short-horns. We have used sires of Golden Rule, the great H. F. Brown bull, Imported Matabile Chief, \$3,000 sire, March Knight, owned by N. P. Clark, another Imported Crabstone Victor. This herd numbers about sixty head and will be sold for one half the actual cost, at private sale. A rare opportunity for someone to own one of the choicest lots in Wisconsin. Address D. C. Coolidge, Dowling, Wis.

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PERCHERONS

We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices.

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50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd. 50 headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

2 Pure Scotch bulls for sale; 12 to 16 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490, a red four-year-old, by the great Mareb Knight T. A. Davenport, Belmont, Ia.

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EMANCIPATOR 5TH 821235.

We Are Offering Herefords

MALE OR FEMALE

of the choicest breeding and individuality. We meet anyone in price who will furnish the same quality of goods. Write us your wants.

CARROTHERS BROS., RYAN, IOWA.

High-Class Hereford Bulls
FOR SALE

A FEW good two-year-old Hereford bulls, 20 yearling bulls or more. The two-year-old bulls all sired by Perfection. Yet, a bull exported to South America. Herd headed by Improver's Hesiod 10737 and British Captain 283067, a son of Imp. Britisher, out of an Anxiety Monarch dam. 100 head in herd. D. S. O'Leary, Prop., Iowa City, Iowa.

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WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.

Warren Gammon & Son, Des Moines, Iowa.

Originators of Polled Herefords.

HEREFORD BULLS

I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address

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15 HEREFORD BULLS

FOR SALE, from 12 to 30 months old, sired by Advance 129531 and McKinley 95219. Address

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Polled HEREFORDS

THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

J.W. WYANT, BLYTHEDALE, MISSOURI

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Breeder of HEREFORD Cattle

I have a few choice young bulls for sale at private treaty. Write, or come and see me.

JERSEY CATTLE.

JERSEYS

CREAMERY patrons who wish to grade up their herds for better results should buy a Jersey bull calf from a dairy herd located in a country where dairying is a specialty.

\$50 Does the Trick.

SUNNY PEAK FARM,
ELM GROVE, WISCONSIN.

King Sappho King Jerseys

WE offer a few mature cows for breeding purposes, a few young cows and heifers and a magnificent lot of young bulls sired by King Sappho King 65262 and Loretta D's Champion Son 77002.

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IS offering a few yearling bulls, sired by Blue Bell's Eminent 74774. Also a few bull calves. These are a fine bunch and will be sold cheap. For particulars, write Fred Stubley, Black Earth, Wis.

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OUR cattle are of the richest breeding and are bred for money makers as milk and butter fat producers. See us or write. Address

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ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otee and other cows equally well known. Write your wants; we can suit you. A. G. Abney, North Loup, Valley Co., Neb.

POLLED DURHAM CATTLE.

Clovermead Polled Durhams for sale. A few bull calves, cows and heifers; quality and prices right. Wm. Barrans, Lenox, Iowa.

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HOLSTEIN
HEIFERS-COWS-BULLS

Anything you want and at popular prices. W. R. Gates, Fort Atkinson, Wisconsin.



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Cummin' to our great sale, ain't you?
It's our fourth and best.

FINLEY'S GREATEST JACK AND JENNET SALE
HIGGINSVILLE, MO., MONDAY, FEBRUARY 28TH
30 MAMMOTH JACKS
15 MAMMOTH BRED JENNETS, FROM THREE TO SIX YEARS OLD

SEE Midland King, the great Kentucky six-year-old. See the four jacks by Dr. McCord, Kentucky's greatest show and breeding jack, that now heads my herd. I have never had such a string of big black jacks to offer. They are a great-boned lot, with good heads and ears. Send for my illustrated catalog; it tells the story. Higginsville is 55 miles east of Kansas City, on C. & A. and M. P. Railways.

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Cols. Harriman and Sparks and Other Auctioneers.

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HIGH GRADE HOLSTEINS
COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want.
RIVERSIDE STOCK YARDS, ALGONQUIN, ILL.

Registered Holsteins (Established 1876)
THE two greatest sires of the breed, Paul Beets DeKol and Hengerveld DeKol have more sons and daughters in this herd than any herd in the world. Plenty of stock for sale.
R. E. HAEGER, ALGONQUIN, ILLINOIS.

Rock Brook HOLSTEINS
All females cataloged for my Fourth Annual Sale at South Omaha, Feb. 8-9, 1910. A few bulls and bull calves at private treaty. Send for my catalog of 125 head to be sold in sale.
HENRY C. GLISSMAN, Station B, OMAHA, NEBRASKA.

20 HOLSTEIN BULLS
From two weeks to eight months old. Fashionable breeding, large milking dams. Sir Netherland Cornucopia, whose two nearest dams average thirty pounds butter, and six nearest dams twenty-five pounds in seven days at head of herd. Prices moderate. Send for sale list.

HOLSTEIN BULLS
TWENTY sons of Reka Ormsby Duke for sale. This splendid sire is a grand son of Homestead Jr. De Kol and Duchess Ormsby and therefore combines blood of the two greatest families in the breed.

Albert Babler, Jr., Monticello, Wis.
HOLSTEINS
LAKE MILLS, WISCONSIN

100 HEAD to select from, bred from the leading strains. Parties wanting bulls or females to improve their herds, write us, we can supply you. High-grades in car lots picked up on short notice.

WM. EVERSON & SONS
MAPLE LANE Holsteins

MALES and females for sale. Herd numbers eighty head. Tuberculin tested. We guarantee our stock. T. J. BALDRE, Monroe, Wis.

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Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Domthoe, of Holbrook, Iowa, and P. Leuty, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

INVERNESS
ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalizer 83757. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, IOWA CITY, IOWA

ABERDEEN Angus bulls for sale. We have as fine a lot of young bulls for sale, from 1 to 2 years old, as can be found anywhere. All of the fashionable families, and can suit the most particular buyer or anyone wanting a good bull at a reasonable price. Located 17 miles east of Des Moines on C., R. I. & P. and I. U. Rys. R. Wilkinson & Sons, Mitchellville, Ia.

ABERDEEN ANGUS BULLS
I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equestor; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

Angus Bulls For Sale
WE are offering a splendid young Blackbird bull for sale; also one Jilt, one Pride and one Sybil. These are choice and we are pricing them right. Address Isenbarger Bros., Battle Creek, In.

ANGUS BULLS, COWS AND HEIFERS
8 BULLS for sale, some of them 2 years old. They are sired by top bulls and out of one of the best cow herds in the state. I have 1,800-lb. cows as good as can be found. All the leading families represented. Call, or write A. G. Messer, Grundy Center, Ia.

ALFALFA HERD ABERDEEN ANGUS
Ericas, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianapolis, Neb.

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thickset Blackbird. 10 young bulls by Glenfold Thickset, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thickset, priced right for quick sales. Farm in city limits. O. V. Buttes, Maquoketa, Iowa.

A BEEF SIRE
FOR SALE—A two-year-old past typical Aberdeen Angus bull, Black Roger S. 119472. Can show calves by him. W. S. Secor & Sons, Melbourne, Ia.

HORSES.

Percheron Stallion and mares. A two-year-old stallion, one two-year-old and one eight-year-old mare. Extra good ones at right prices. J. Aug. Carlson, Route 1, Ogden, Iowa.

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. Ben Bohlander, R. 2, El Paso, Ill.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000, home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

Shetland Ponies The cream of Scotland; any kind you want; we sell them reasonable. CLARKE BROS., Auburn, Neb.

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. ½ ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

HORSES AND JACKS.

CLYDESDALE
MARES

I have 60 head of imported Canadian-bred and home-bred registered Clydesdale mares. All have been wintered in Iowa and are thoroughly acclimated and ready for hard work. Big, strong, thrifty brood mares, three to six years old, weighing 1,600 to 1,800 pounds, and safe in foal. Public sale of 40 head, March 2, 1910. Watch for announcement.

LAKE SIDE FARM
Len H. Lamar, Storm Lake, Iowa.

Large Heavy Boned
Mammoth Jacks
FOR SALE; from 15 to 16 hands high, for \$350 and upwards. Farm located 8 miles west of Cedar Rapids
JOHN HENRY FAIRFAX - IOWA

Percheron and Clydesdale
STALLIONS

I have a splendid lot of three-year-old black Percheron and Clydesdale stallions that are strictly first class and I am making bed-rock prices on them. Address
R. O. MILLER, LUCAS, IA.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri Jacks—the best that grow—14½ to 16 bands. Everything guaranteed as represented. EST. 1892.

J. C. HUCKSTEP, Prop., BOLIA, MO. Pike Co.

BELGIAN MARES

IMPORTED and American-bred Belgian mares, safe in foal by a reserve champion stallion at the Iowa State Fair. They are good ones, none over 4 years old, broken to harness, and in an ideal breeding condition. Also some mares not yet of breeding age. Among them are some that have been winners at the Iowa State Fair. Write for prices or come and see them. Address
CHAS. IRVINE, ANKENY, IOWA.

Best Imported
Percheron, Belgian,
English Shire, Suffolk
Punch, and German
Coach Stallions,
\$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$650 each.
A. Latimer Wilson, Creston, Iowa.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address
GEORGE W. BILBO, CRESTON, IOWA.

Public Sale, February 11, 1910
OF 25 high-grade draft mares and geldings, 16 head of pure-bred cattle, Short-horns, six bulls, 10 cows and heifers. Sale will be at farm. Hogs are all sold. Address W. J. Hather, Ord, Neb.

For Sale--Grade Shire Stallion
SIX YEARS OLD. Good bone and breeding. Priced reasonable and guaranteed right. Address
JOHN KROGMAN, R. 1, LYONS, IOWA.

When writing please mention this paper.

HORSES AND JACKS.

DO YOU WANT FRONT ROW?

WE are representing Jack Breeders' Association. They are guaranteed in every way; 14 to 16 hands high, 3 to 7 years old; black, with white points. We represent 100 jacks of the best. Can save you \$300 to \$500 buying from breeders direct.

C. L. MOORE, Bowling Green, Missouri.

PERCHERONS AND BELGIANS

THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY."

Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.
W. J. BUTLER, OTTAWA, ILLINOIS.
Long Distance Phone.

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have shred and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, In. Register your jacks in the American Jack Registry. Write for blanks.

HORSES

PERCHERONS, Belgians, German Coachers AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

Percheron and Belgian STALLIONS and Mares

Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot; ½ mile north of C. M. & St. P. R. R. depot. E. H. Knickerbocker & Son, Fairfax, Iowa.

Percherons for Sale

Fifty head of imported and home-bred mares, two to six years old, bred to the best sires. Ten head of stallions, one to three years old. They are the right kind and priced right. Come and see and you will buy.

WELCH & PECK, LEXINGTON, ILL.

FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

FRANK L. STREAM, Creston, Iowa.

Percherons and Belgians

I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.
IMPORTED Percheron and Belgian stallions and mares. Third importation arrived January 13th. The best that money and experience can buy. Strictly the kind that neighbors will not make fun of your horse and price after you get home. Correspondence and inspection invited. Jos. Rousselle & Son, Seward, Neb. Barn ½ mi. north courthouse.

HORSES.

FRANK IAM'S'

new importation of draft stallions and mares arrived September 20, 1909, by "Iams' own special train" of "ten express cars." They are "business propositions," that "jar the cherries" on a "wide-awake" "horseman's hat." Iams' "Peaches and Cream" stallions and mares are "eye-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. Iams makes buyers

"SIT UP AND TAKE NOTICE"

"Ikey Boys" get into Iams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 27 years' successful business. He bought and sells better horses cheaper than ever. Mamma, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at Iams. Iams has

200=PERCHERONS AND BELGIANS=200



two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "toppers" at \$1,000 and \$1,400 (few higher), mares \$700 to \$1,000, so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000 SAVED AT IAM'S \$1,000

Ikey, what "a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no stallion salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams' competitors "holler." He is knocking "high prices" out of the Xmas tree. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His \$1,200 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salemen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by one-half million dollars.

Write for Million Dollar Horse Catalog, Greatest on Earth

REFERENCES—ST. PAUL STATE BANK AND CITIZENS' NATIONAL BANK,

ST. PAUL, NEBRASKA.

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES

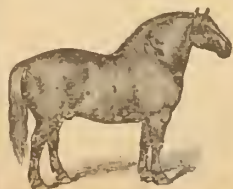


We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on

yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS



WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

FORD & HARRINGTON, PARKER, SOUTH DAKOTA. FAIRBURY, ILLINOIS.

When Writing to Advertisers Please Mention This Paper

HORSES.

LAKEWOOD PERCHERON SALE

100 PERCHERON STALLIONS and Mares at Public Auction 100

SIOUX CITY, IOWA, TUESDAY and WEDNESDAY, FEB. 8-9, '10

THE greatest opportunity of the year to buy high-class Percheron stallions and mares. Sons and daughters of the World's Champion Sire, CALYPSO, many of these good enough to win in the strongest competition. 25 BIG-BONED STALLIONS READY



CALYPSO.

FOR SERVICE. 10 selected yearling stallions. 50 splendid young mares in foal by CALYPSO and CARTILAGE, both INTERNATIONAL WINNERS. 15 choice yearling fillies. It should be remembered that Lakewood Farm has produced more PRIZE-WINNING PERCHERONS during the past five years than any other breeding establishment in the world. 30 PRIZES were awarded Lakewood Percherons at the recent INTERNATIONAL at Chicago, a

RECORD NEVER BEFORE EQUALED

If you want a stallion to head your stud, a team of high-class mares, an outstanding yearling stallion, or a pair of splendid fillies, do not miss this sale. Catalog on request.

H. G. McMillan & Sons, Rock Rapids, Iowa.

Col. F. M. Woods } AUCTIONEERS { Col. P. McGuire
Col. Carey M. Jones } Col. W. J. Murphy

PERCHERONS

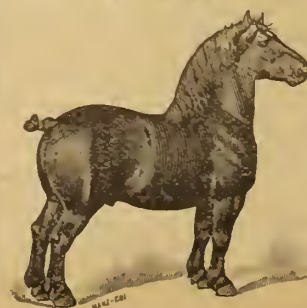
WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of this year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA. **C.O. Keiser, Keota, Iowa**

YOU ARE MISSING THE OPPORTUNITY OF A LIFETIME



If you do not send and get OUR NEW 1910 CATALOG before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909 and are all in prime condition to go out on the stand and do a big season's business. They are nearly all solid colors, range in age from 3 to 6 years, in weight from 1,700 to 2,300 pounds. They are the big-boned, blocky type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a Government bond. GET OUR CATALOG. It is free for the asking.

WATSON, WOODS BROS. & KELLY CO., LINCOLN - - NEBRASKA.

55 PERCHERONS--IMPORTED AND HOME-BRED

WE WILL OFFER AT THE SALE BARN

Waterloo, Iowa, Thursday, February 17, 1910



45 MARES

ranging from yearlings to 6-year-olds, with the exception of one aged team, and are practically all sired by the great stallion, **Superior**, or are bred to him. No sale of the past year has included proportionately as many large, weighty, finished mares as will be offered in this sale.

SUPERIOR

is conceded to be one of the greatest stallions the breed has produced, individually or as a sire. He weighs 2,300 pounds, and in type and finish he approaches perfection. At the International, 1908, Mr. Loonan exhibited 13 colts, 8 of the number by **Superior**, and won 22 prizes; 3 gold medals and 1 diploma. The offering is of superior weights and drafty character, and includes many matched pairs of mares.

4 American-bred Stallions 1 to 3 years old, and **6 imported stallions**, the pick of his last importation, are consigned by H. Redenius of Dyke, Iowa.

Write us for illustrated catalog, mentioning this paper. Come to sale and see **Superior** and his get.

Colts. Carey M. Jones and Wm. Holland, Auctioneers

JAS. LOONAN, T. F. GLENNY, WATERLOO, IOWA.

HORSES AND JACKS.

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit **Hart Bros., Osceola, Iowa.** We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.

DUNHAM'S PERCHERONS

Next large importation, stallions and mares, Feb. 10th, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses—horses with bone, quality, size, action and best breeding, stallions or mares; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit **OAK LAWN**. Catalog shows the place and the horses. **W. S., J. B. & B. Dunham, Wayne, Ill.**

PERCHERON MARES BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

C. G. GOOD, Ogden, Iowa.



LA FAYETTE STOCK FARM

SPECIAL NOTICE

WE call your attention to our first importation for 1910. **FIFTY HEAD** of stallions and mares just received in fine condition and ready for sale; big-bone drafters with lots of quality and weight. We can show over 200 **HEAD** of Percheron, Belgian, Shire, German Coach and Hackney stallions and mares, a great lot of horses, prize winners in Europe and America.

Come to our farm and let us show you more high-class horses with quality and at **LOWER PRICES** than can be bought any other place. Best guarantee, good insurance and square treatment. Come early while you can get a big selection.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.

HOMEWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron, Belgian and Shire STALLIONS AND MARES

SIXTY head of stallions arrived August 10th. 40 head of Percheron mares arrived on Nov. 5th. We also have a choice selection of American-bred Percheron mares, fillies and stud colts. If in the market for a first-class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. Our Motto: Prices right, terms to suit, no dissatisfaction guaranteed. No misrepresentations or disappointment on arrival. Write our home bank for reference. Homewood is on the main line Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly from the city. Bell phone Homewood 204.

Don't fail to see our exhibit of 69 head at the coming International.

S. METZ & SONS, HOMEWOOD, ILLINOIS.

Reserved Champions

PERCHERONS AND BELGIANS



2 IMPORTATIONS, 1909, 2

Do you want a first-class stallion or mare? Sound, big bone, size, wide back, true action. **PRICES LOWEST, TERMS MOST LIBERAL—GUARANTEE GENUINE.** Come and see for yourself **GOODS** that are a pleasure to show. Trains nearly every hour any direction. Interurban from Davenport, Iowa. Stables in town. For further information, write us.

CHAMPLIN BROS., CLINTON, IA.

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON, BATAVIA, IOWA.



CHESNUT STUD FARM PERCHERON STALLIONS AND MARES

TEN head of stallions and mares for sale, ranging from 2 to 5 years of age. Home-bred horses, \$500 to \$1000. Write, or come and see me. Address

L. C. BARNETT, INDIANOLA, IOWA.

HORSES.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians so we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the showing history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners.

We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Percheron Stallions

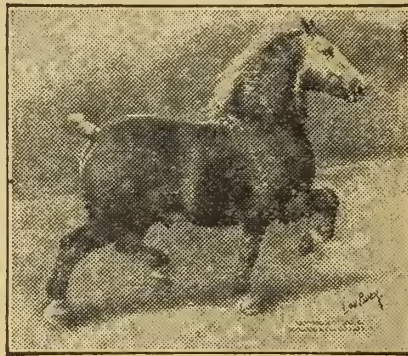
WITH SIZE AND QUALITY

PLENTY of bone and good action. That's my specialty, and I cau sult the man who wants a good stallion, as both the horse and my prices are right. **COME TO SEE THEM** and you'll see, because you'll not be able to get better bargains anywhere else. I have a choice lot of stallions for sale now—home-bred and imported horses, carefully selected in France. Inspection especially asked. Notify me and I'll meet you at Ames. Farm 7 miles N. E. of Ames.

S. B. FREY, AMES, IOWA.



DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

Ensign's PERCHERONS



OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write

S. A. ENSIGN, CLEGHORN, IOWA

C. A. PINGEON, Sale Manager.

The Avondale Stud Farm

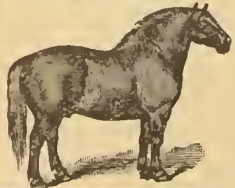
FOR the next thirty days, will give attractive prices on Imported Clydesdale Stallions and Mares; also a few choicely bred hackneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U.S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C., R. I. & P. Railway, forty miles northwest of Peoria, Illinois.



REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.**

CLYDESDALE MARES

I HAVE just received from Graham Bros., Clarendon, Ontario, Canada, America's foremost importers and breeders of Clydesdales, two car loads of very choice, young, registered brood mares, imported and Canadian bred, with much size and quality and of good ages, all bred and many now showing heavy in foal. To move them quickly I am making very attractive prices on a limited number of these good mares. It will pay any intending purchaser of one or more registered mares to see them before buying.

LEN H. LAMAR - - STORM LAKE, IOWA.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality. Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

Maasdam & Wheeler

Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,350 lbs. each. My entire 1908 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

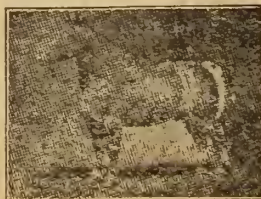
WM. CROWNOVER, HUDSON, IOWA.



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see **OUR PERCHERONS** before buying. Telephone service. Their 1909 importation arrived November 1st. Ernest L. Humbert & Son, Corning, Ia.



Shires, Glydes, Belgians, German Coachers

OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing them where every farmer can buy. Come and see us. Address **Linben Harrison & Son, Prescott, Iowa**

HORSES.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

TWELFTH IMPORTATION SINCE AUGUST, 1908, ARRIVED NOVEMBER 14, 1909.

OUR WINNINGS AT 1909 INTERNATIONAL:

Grand Champion Shire Stallion.
Champion three-year-old and over Shire Stallion.
First, Second, Third, Fifth, aged Shire Stallion.
First, Fifth, three-year-old Shire Stallion.
Second, Fourth, two-year-old Shire Stallion.
First and Second, five best Shire Stallions.
Grand Champion Shire Mare.
Reserve Champion Shire Mare.
First, Second, Third, aged Shire Mare.
First, Second, Fifth, two-year-old Shire Mare.
First, Second, three best Shire Mares.

First, Shire Mare and Colt.
Gold Medal (English) Shire Stallion.
Gold Medal (English) Shire Mare.
English Hackney Medal. American Hackney Medal.
First, aged Hackney Stallion.
Champion Hackney Stallion.
Champion Stallion in Harness.
Champion Coach Stallion (all breeds competing).
Reserve Champion Hackney Mare.
First, aged Hackney Mare.
TEN SILVER CUPS.

50 IMPORTED SHIRE MARES FOR SALE. Address for catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

**W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM,
CEDAR RAPIDS, IOWA.**

IF YOU WANT TO BUY A STALLION

EITHER

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any banker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. For the asking. Address BOX 68.

Belgians and Percherons

Second importation for 1909, sixty head, arrived August 10th; third importation, thirty head, December 8th

120 STALLIONS AND MARES

Upon my farms; my four barns full. Eight miles west of Cedar Rapids; two railroads; electric car every hour.

SEND FOR NEW CATALOG

HENRY LEFEBURE, FAIRFAX, IOWA.



M. L. AYRES, SHENANDOAH, IOWA

Thirty Years a Breeder and Importer of

PERCHERON HORSES

FINE selection of young two and three-year-old home-bred stallions for sale. The noted Brilliant bred stallion, BLANDE 36577, at head of stud. Anyone looking for a herd heading stallion will do well to patronize me. For bone, size and quality our stallions are unsurpassed. 125 to 150 head of horses at the place all the time. Come and see them or write for full particulars, mentioning The Homestead.

57 IMPORTED STALLIONS AND MARES

WITH PRACTICAL HORSEMEN a short statement of FACTS will have more weight than a whole page of MUSH. I have a stable full of SHIRES, first class in every respect. They combine WEIGHT, quality, good conformation and the best blood. Also WELSH MOUNTAIN PONIES of the highest type. I will sell them as low as legitimate business will permit. Write me for particulars.

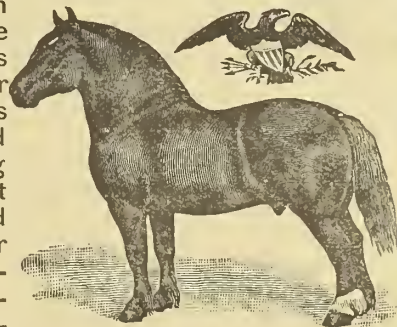
Great Bargains in February. **GEO. E. BROWN, AURORA, ILL.** Aurora is 37 miles from Chicago by C. B. & Q. C. & N. W. and also by trolley; trains every hour. Also connected by trolley with Joliet, Geneva and De Kalb, and with Ottawa by the Fox River line.

THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October, one in November, another shipment arrived about the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

A CLYDESDALE SPECIALIST CATALOG

If you have or ever expect to own a Clydesdale, or if interested in this firm, send today. As, ultimately, you will want to come to the headquarters of the breed to buy, it will be your gain to come now.

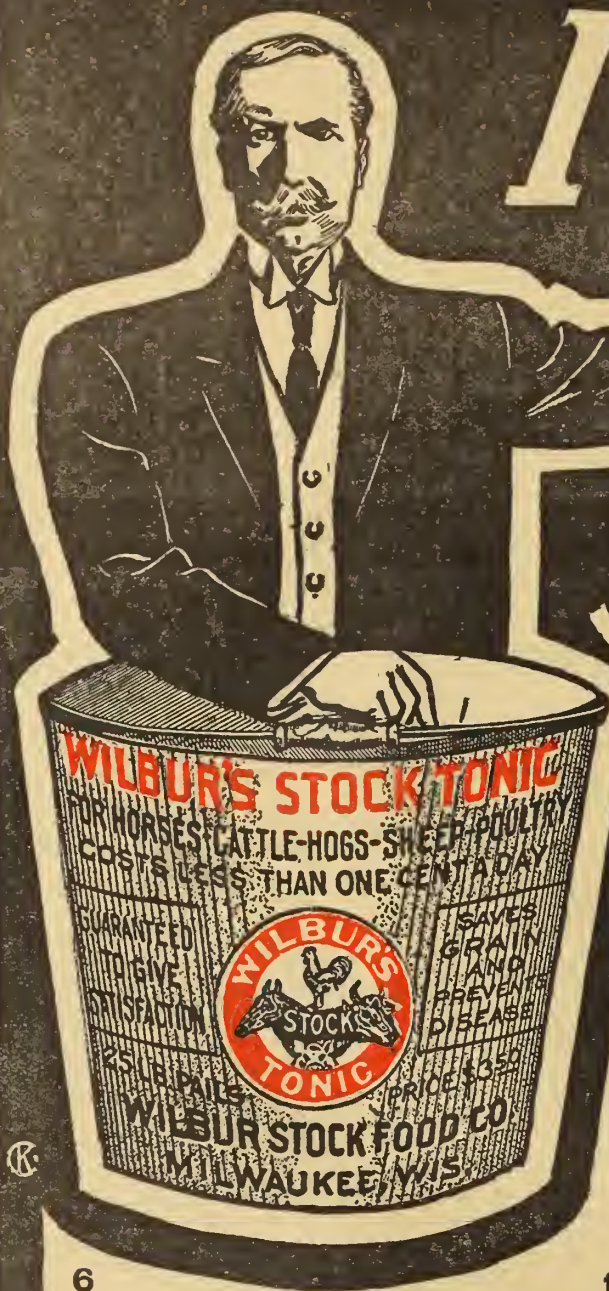
OUR BOOK WILL SHOW YOU WHY

McLAY BROS., JANESVILLE, WISCONSIN.

New Importation of Percheron, Shire and Belgian Stallions

EXTRA weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. **PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.**

When Writing to Advertisers Please Mention This Paper



I Want to Send You This \$3.50 Pail Free

I want you to know for yourself why

WILBUR'S STOCK TONIC

is fed by 500,000 stock raisers daily. I want you to see what it does for your horses, your milch cows, your hogs, your sheep and poultry. I want to prove to **you** beyond all doubt, that Wilbur's Stock Tonic is a wonderful feed saver, fattener and positive preventive of disease. I want you to find out by actual

test that my tonic **makes money for you** every time

you feed it and there are **1240 feeds** in the pail I want to give you **free**. I don't want you to pay me one cent for this free pail. That's why I will send a 25-lb. pail absolutely free to you and to every reader of this paper, where I have no agent, who fills out and sends me coupon below.

Is my offer fair? Do you risk one cent by accepting this \$3.50 pail **free**? Is it worth a 2-cent stamp to make \$3.50? If so, just fill out this coupon and mail **today**.

What Others Say

Wilbur Stock Food Co., Milwaukee, Wis.

Gentlemen:—I have been feeding Wilbur's Stock Tonic for some time with best results. I feed it daily to horses, cows and hogs, and find it does everything you claim for it. I have fed other kinds but they are nowhere to compare with yours. I never expect to be without Wilbur's Stock Tonic.

Yours truly,
Perryburg, O. F. E. FOX

Wilbur Stock Food Co., Milwaukee, Wis.

In regard to Wilbur's Stock Tonic, I can say I think it is all right. I have had two or three horses die and several sick ones but since I commenced using your Stock Tonic I haven't lost a horse or had one to be sick that I know of. I have been using it for the past two years.

Yours truly,
(Signed) G. W. BEAVERS
Hurst, Ill.

Wilbur Stock Food Co., Milwaukee, Wis.

Dear Sir:—Your Stock Tonic is the best I ever used to bring up run down horses. I could not get my horses to improve until I commenced to feed your tonic. They are fattening up and I feed only half the grain I did before and my cattle are doing well, in fact everything I feed it to. Would not be without it again.

Yours truly, J. O. McNUTT. Warrens, Wis.

J. P. Wilbur
President

WILBUR STOCK FOOD CO., 710 Huron St., Milwaukee, Wis.

FREE \$3.50 PAIL COUPON

F. P. WILBUR, Pres.,
Wilbur Stock Food Co.,
710 Huron St., Milwaukee, Wis.

Please send me the 25-lb. pail of Wilbur's Stock Tonic and the large colored picture, **both free**.

I own _____ horses _____ cattle _____ hogs _____ poultry.

My Name _____

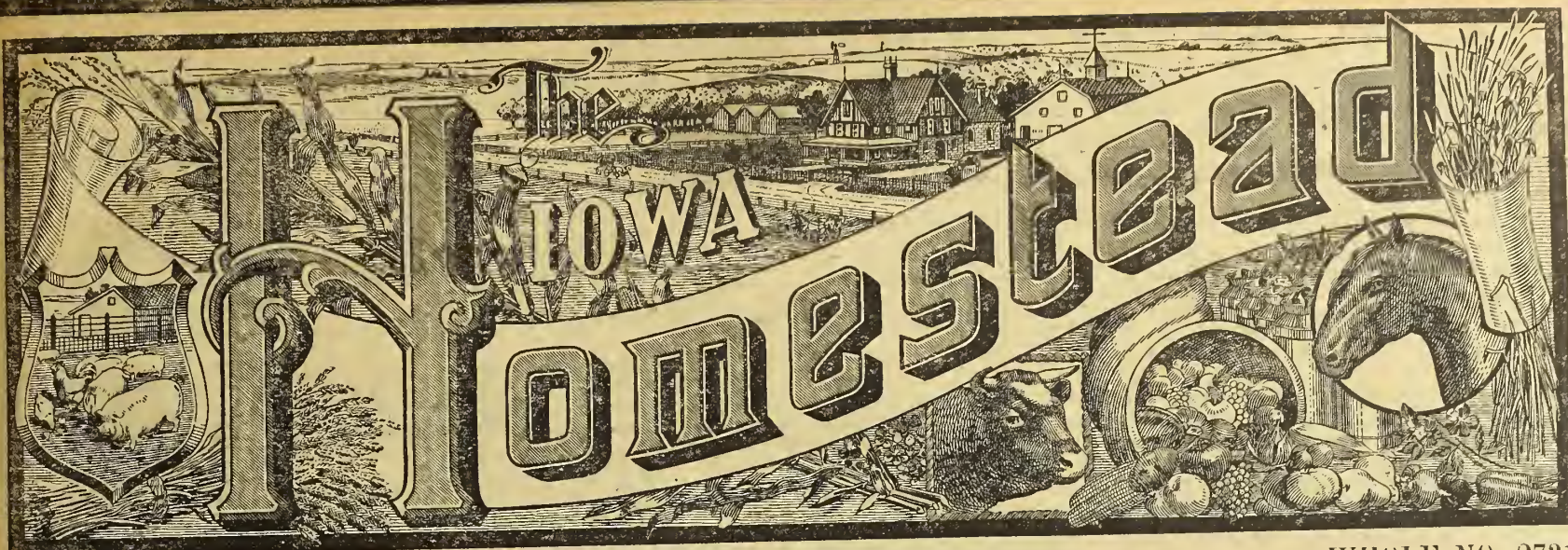
P. O. _____ R. F. D. _____

Freight Sta. _____ State _____



This Beautiful Picture Free

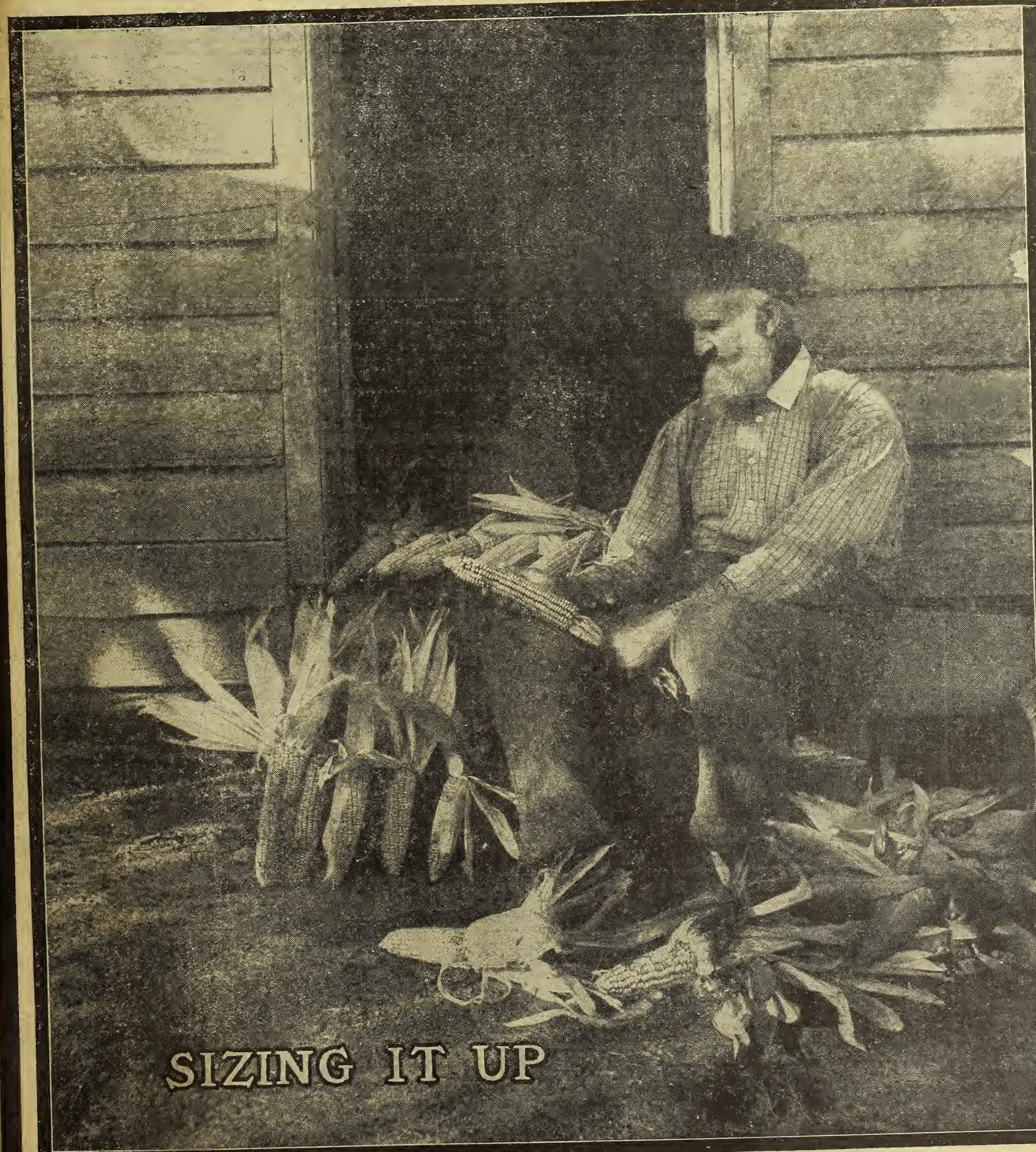
Champion six-horse team of the world. Fed on Wilbur's Stock Tonic. Awarded First Prize at St. Louis World's Fair. I mail you this beautiful picture **FREE**, size 15 x 31 inches, in exquisite colors, if you mail coupon without delay.



VOL. LV. NO. 6

DES MOINES, IOWA, FEBRUARY 10, 1910

WHOLE NO. 2731



SIZING IT UP

LISTEN!--"How Can I Make More Money on My Farm?"

That's just the question which confronts you now

The Question is: How Can It Be Done?

An intelligent answer to that question is worth real money to you

I'll Answer that Question and I Won't Charge You a Cent For It, Either

HERE is the farmer's road to bigger profits—this year and every year. The illustrations speak volumes for themselves. But look at the PROOF—and I've got even better than that for you. Corn—corn and more of it means cash. Cash and more of it—as much as a quarter more of it in profits if you'll take the experience of thousands of farmers who are writing me like the letters below—the first PROOF. With Corn—or any kind of grain, or crop; no matter where you live, or what your farm is like, it's the same story, if you'll take the

advice of the most successful farmers in the country today. Take their advice—I don't ask you to take mine alone. Here is my share—what I'll do for you. Here's the second PROOF—I'll give you 12 months to prove out these facts if you'll write me a postal. You can start at once at my risk for 30 days. But I'll first prove to you, by hundreds of letters like these below, just what you can start and do right now to make the most money on your farm this year—for 12 months from now and on into 1911 and year after year if you'll do it.

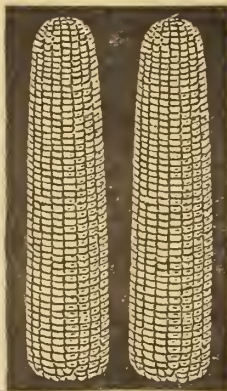


Wm. Galloway
President
The Farmer's Manufacturer

The Difference Between Manured and Unmanured

1. Big Bumper Corn—25 more bushels per acre. Figure it up 50 cents a bushel and see how quickly you pay for a Galloway Spreader and how much you'll make besides.

2. This stalk is only 3/4 size. In a corn field where a Galloway is used you can go out and see the mark (by bigger corn) left where the spreading stopped.



3. Here are the kind of champion ears grown on Galloway Manure-Spread Land. It's just as much a waste of money to leave your manure in a pile as to throw your crop away.

4. I am Telling a Million Farmers About This and I'm Going to Prove It to Them—and to You.

My New Clincher Proposition To You

Here is how to make the extra money. First. Get your name in to me. Don't wait until tomorrow. Do it even before you start out to do your chores. Second. Pick out from my Big Galloway Manure Spreader Catalog, which I'll send you free, any spreader you want out of my big line of five different styles and sizes including my Complete Steel Truck Spreader. Third. Here is the new part—and I repeat it again in full. If at the end of twelve months after you order a spreader, it isn't a paying investment to you, I will pay you back your money and you send me back my spreader. How's that for a proposition? Could I do it if I didn't have the spreader and knew what I was talking about? No—never in the world. Could I keep on advertising and selling these spreaders by the thousands if they were not head and shoulders better than anything else? Ask the editor of this paper what he found out.

There are just two things I want to impress on

you. If you do these things I can make you money: First, get that postal card in to me, and then, second, prove for yourself that the Galloway Spreader is the best spreader ever made by human genius. Forty thousand farmers have already stamped their O. K. on it. That ought to be proof enough.

The concern, whether manufacturer, mail order house, agent or dealer, who says anything contrary to the merits of the Galloway Spreader, are either ignorant and don't know what they are talking about or are deliberately lying and misrepresenting our goods. Whose word would you rather take? The word of forty thousand farmers who have tried my machine or the word of some dealer or agent, who will simply say anything that comes into his mind, because I stand between him and a profit of from \$25 to \$30?

Send postal today and get my new, personally signed proposition.

Wm. Galloway, Pres.

Further Proof

Have in My Office Thousands More Like These. \$1,000 in Cash Paid if One is not Genuine

I Have Never Met Any of These Men. They simply Saw My Advertisement and Ordered



Try It 12 Months

If it is not a paying investment I'll give you back your money; you give me back my spreader.

How Does It Compare With \$125 Spreaders?

Hans M. Johnson, Parkston, Minn. "I would not trade my Galloway for any \$125 spreader I have ever seen." Garret Mathias, Mathias, W. Va. "It's worth two of a \$125 machine. Couldn't think of changing even." C. C. Johnson, Morrison, Mo. "The— isn't in it with the Galloway."

G. A. Entz, Newton, Kans. "It spreads evenly any kind of manure with two horses as good as any \$125 spreader with four." Ewaldt Redman, Watah, Ind. "Your spreader certainly proved what you said. We tried a— spreader last spring. Couldn't do anything with it. It cut down eight inches and three horses couldn't pull it."

J. A. Gilmore, Waterloo, Ill. "Used it this winter when others couldn't use their spreaders." Theo. Manke, Lawrence, Neb. "I can haul as much manure with it as any \$125 spreader."

Does It Come Up to All Our Claims?

John J. Houtz, Merwin, Mo. "Used hardest kind of feed lot manure. Tried best to break or clog it by overloading and placing load to disadvantage of spreader. Found it did work as represented. My entire satisfaction. Hauled 265 loads without breakage or trouble."

J. V. Bradley, Rockville, Mo. "Found it exactly as represented." A. C. Courtney, Ackerland, Kans. "Will do all that Wm. Galloway says and more. Would not purchase any other kind." Herman Walker, Avon, S. D. "You can't recommend it too high. It is all you say it is in catalog."

James Manro, Patterson, N. D. "The minute I saw your machine work I knew it was all and even a great deal more than you claim for it. Neighbors who have seen it claim it is the best they ever saw. Force feed simply immense. Leaves nice clean bottom."

Peter Boysen, Schleswig, Iowa. "Got my horses on a trot. Slammed it in gear. Failed to break machine. Test enough for me. Would not trade mine for any other make for three reasons. 1st. Cost only half. 2d. Get strong set of running gears at low price and still save \$20 on whole outfit. 3d. Can use spreader with two horses and use running gears whenever desired."

Is It a Money Maker?

W. H. Cress, Spaulding, Iowa. "Best investment in farm machinery I ever made."

M. B. Sparlin, Seneca, Mo. "Spreader all right. Would not sell it for ten times what it cost if I could not get another."

J. A. Hush, McCune, Kans. "Hauled 100 loads last winter. My hay made double. Think it will pay if you don't have but 50 loads to haul out a year. Can't beat Galloway for good work and wear. Price is right."

J. W. Carter, Amite, La. "By using spreader you do more work, haul more loads and increase value of manure three-fold. On my 140 loads saved \$140 in labor and increased value over hand spreading."

D. M. Miller, Warrensburg, Mo. "Would not give it for all commercial fertilizers you can scratch up. It works to a T. Draft is light. Fits any wagon. Will pay for itself in one year."

J. B. Baker, Rushville, Neb. "Potatoes top dressed. Made nearly 25 bu. to the acre more than those not top dressed."

S. J. Woodring, Chester, Okla. "Have \$1000 worth of machinery. Your spreader is best tool on the place."

How Does It Work?

Ralph Horst, Clintonville, Pa. "Was agreeably surprised with the thoroughness with which it did its work."

John Kasmeir, Shawnee, Okla. "It is a master in its line of work."

E. Dolle, Jr., Seguin, Texas. "Have spread wet and dry, rotten millet and corn stalk manure. Works fine."

F. J. Duffy, East Grand Forks, Minn. "Loaded spreader twelve inches above box with toughest manure could find. It did the work."

Levi V. Beyer, Maudsall, Pa. "Best machine I ever saw work."

G. A. Entz, Newton, Kans. "It is O. K. all around and a machine for any kind of farmer, for the large or small."

H. Guduberson, Gladbrook, Iowa. "Works fine. Spreads all kinds of manure better than any spreader I ever saw. So simple, nothing to get out of repair as compared with other spreaders."

Ernest Nelson, Chanute, Kans. "Could not do any better. Surprised at the way it does its work and easy draft. Neighbors think best ever seen."

R. A. Jongwoord, Litchville, N. D. "Complete success. Several advantages over other spreaders. Can be loaded in barn. Two horses handle it with ease. Boy can operate it with ease."

G. B. Clary, Fairbury, Neb. "Works as well as the owners represented it and more. Least expensive spreader I know of."

Is It Light Draft?

T. F. Stice, Oswego, Kans. "Often pull it with my small buggy team. Does good work. Have always used the— before. Galloway much the best. If going to buy a dozen more they would all be Galloways."

C. Carlson, Haddon, Kans. "Loads handler than big four horse machine. All I need is plug team and 16 year old boy."

J. W. Ramsdell, Sandusky, Ohio. "My two horses of 1100 lbs. that play to run the Galloway, while other manure spreaders make three or four horses pull hard."

W. K. Neely, Wayne, Neb. "A success in every way. Used different spreaders. Like wagon box best. Lighter draft, can haul with two horses. Put it on any old wagon."

Does It Need Many Repairs?

Fred J. Bowen, Longford, Kans. "It has never cost me for repairs or minute's trouble. Hauled all kinds of manure."

Edward Anderson, Niagara, N. Dak. "Not given me a bit of trouble. Hauled out 300 loads."

James W. Anderson, Leonardville, Kans. "There's nothing to get of place or wear out."

John J. Houtz, Merwin, Mo. "Tried my best to break or clog it by overloading. It did the work as represented."

W. W. Banfield, Paradise, Kans. "There does not seem to be anything to wear out about it. Have not been out 5cts. for breakage."

T. J. Oban, Loyaltown, S. Dak. "Used it two years. Never broke a nickel's worth."

The Farmers of America Are With Me on This I Can and I Will

I've Set My Stakes for 30,000 Galloway Spreaders This Year. I've Got the Factory that Can Make Them—and It Shall. I Can Sell Them if I Make the Price—and I Am Doing It. My Price is Based on this Quantity.

My price direct to your station—freight prepaid on 30 Days' Free Trial and 12 Months' Approval Test is doing the business. Here are facts about the Galloway which is the only successful Wagon-Box Endless-Apron Force-Feed Manure Spreader ever made. Beware of imitations.

My new, wonderful roller feed is the greatest ever contrived by human genius. Made of 15 pounds bull metal malleable. Can't wear out. We do with it what others try to do with 250-lb. cogs and gears. Read proof above.

Read These Boiled-Down Facts to Remember About the Galloway

—Saves you 50% on the price—Lowest price ever made on a first-class spreader—Fits any truck

regardless of make—Don't break up two teams—Takes only two horses—Thirty days' free trial, you alone to be the judge—Then twelve months' approval test to prove that it's a money-maker—\$25,000 guarantee—I prepay all freight charges to you—Works up and down hill—On side hills—Winter or summer—In snow, ice, rain and mud—Only endless-apron force-feed ever made which alone is worth \$25.00 and found only on a Galloway—Easy to get through your barn doors and around your yard—Eleven different patents—Made in five different styles and sizes, including the Complete 70-bu. Steel Truck Spreader—So simple repairs are almost eliminated—Has the O. K. of forty thousand American farmers.

Then consider these facts and the PROOF and you'll send me your name on a postal for my New Clincher Proposition and Big New Galloway Spreader Book—Write today.

Wm. Galloway Company of America (Authorized Capital \$3,500,000.00)

109 Galloway Station, Waterloo, Iowa

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, FEBRUARY 10, 1910.

Making Farming More Profitable

DEAN DAVENPORT, of the Illinois Agricultural College, in his last book, "Education for Efficiency," has most wisely considered present-day education tendencies, and particularly the education which affects or will affect the farmer boy of today and the farmer of the future. His plea is for a readaptation of our secondary schools to better meet the needs of the students in attendance.

He would make country life more wholesome and more enjoyable, and his first step toward that end would be to make farming more profitable. Upon this he has said:

"The first step in the development of any business is to 'make it pay.' Whatever we may say about the glories of country life, and it is much; whatever the songs we sing of the free air, the twittering birds and the blessed sunshine, and they are many; after all and before all, farming is a business, and the first and the fundamental step in its development is to put it on a paying basis. Our colleges and our experiment stations have done well, therefore, to devote their first and up to this time their principal efforts to the labor of increasing the prof-

its of farming. In the past, farming was not a capitalized industry and such a thing as failure was almost impossible. From now on, however, farming is to be a capitalized occupation and failure will be relatively easy; for the new discoveries of science, while they tend to establish the business on a sounder basis, do not make it easier in the sense of better adapting it to the novice or to men of low capacity. Agriculture is rapidly becoming more difficult, calling not for less, but for more, of brains, of knowledge, and of executive ability, and as such it is rapidly challenging the attention of the brightest men, who will be attracted about in proportion as they can feel the possibility of reasonable profits.

"No business can hold the respect and the service of men of ability unless it affords them a reasonable reward for what they put into it, and certainly no occupation can commend itself to ambitious young men until it offers promise of a good and reliable income.

"In this connection it is most significant to note the increased respect for agriculture and the new interest in farming and in country life that commenced to spring up among all classes

almost immediately after the work of the college and experiment station began to show how to put this business on a scientific and paying basis, and it is significant, too, that we now hear less and see less of the drift from the farm to the town, and that men of sound business sense and wide experience are beginning to look to the land and to agriculture not only as a safe business, but in every way as a desirable occupation. That is the main influence that will regulate the flow from the country to the town and hold in check that insane rush of young men cityward that we have all deplored for these many years."

Dr. Davenport is most intelligently interpreting present-day tendencies. He sees the farmer making a legitimate profit and adequate returns for his investment of labor and money. At present far too many men unfamiliar with actual facts and conditions are willing to believe that the farmer is responsible for high prices and that he is reaping the benefits. Dr. Davenport would have the farmers make a still greater profit, but he would have it made by the expenditure of more thought and intelligence in farming. His is a wise program.

A Remedy for High Prices

INTENSIVE farming is the remedy for high prices prescribed by many. President J. G. Schurman, of Cornell University, is the latest to make a public statement that American farmers have much to learn from their European cousins in this matter of getting the best results out of the least ground. He says:

"Everyone is concerned today about the advance in the cost of living. Some ascribe it to the increase in the world's production of gold with the resulting tendency to a universal increase in prices. The trusts are blamed for it by others. In our own country there seems to be a set determination on the part of the government to destroy trusts which are monopolizing articles of universal consumption, and raising the prices on the consumer. And, of course, this is the only proper method to pursue. But it may well be that the causes of this increase in the cost of living lie deeper than is generally supposed. The population of the country is increasing. The consumption of farm products is outrunning their production and, as our unoccupied lands are now exhausted, it is costing more to produce articles of food than formerly. Look, for example, at the subject of beef. Cattle were formerly produced in vast numbers and at a comparatively small cost on great ranches. These ranches, however, have now been taken up by homesteaders. Ranching is, therefore, rapidly becoming a thing of the past. More and more in the future cattle will be supplied to the market from small herds owned by farmers. And meanwhile, we stand between the era of ranching, which is passing away, and the era of stock raising on farms, which is not adequately developed to meet the needs of our increasing population." It is

an undeniable fact that the tendency of the day is toward smaller farms and suburban tracts occupied by city commuters. Great areas of arid land in the Northwest are being reclaimed and cut into five, ten and twenty-acre tracts, on which a good living can be had. The northern part of Idaho boasts of a famous one-acre ranch on which a former Minnesota railroad engineer and his wife have made a good living for several years past. In the Southwest the immense ranches (once given over to grazing herds) are being divided into modest-sized farms, while Texas (gigantic state that it is) is rapidly being cut up into intensive farming tracts which are luring the city men of the North.

The day seems not far distant when the grain belt will learn the lesson taught by European farmers and already learned by the ranchers and city commuters of the Northwest and Southwest. There is no doubt that land and energy are being wasted in the grain belt today. The average German farmer, in the Fatherland, is able to make a splendid living on one-twentieth the amount of ground which

the average grain-belt farmer thinks it necessary to work. In France, Belgium and Ireland the farms are cut up into small tracts of from two to ten acres. A transplanted Irishman says: "The result is, that not having to scatter their physical energies over 160 acres, the farmers of these countries devote themselves to cultivating small acreage and farming it intensively. It is a great mistake for a relatively few men to own vast tracts of land and hold them out of use for speculation purposes. Nor is it intelligent policy for one man, with the assistance of hired help, to attempt to farm 160 acres. The area is so large that much of it is not fully cultivated. If the land was divided into three, five or ten-acre tracts there are many residents of the cities who could acquire small acreage and become producers instead of consumers. As it is, it were nonsense to talk about the city workers going to the country and becoming farmers. They cannot own the land because of the high price, and cannot do otherwise than remain in the cities to do the best they can."

The "back-to-the-land" movement in America is following these lines. City men with no farming knowledge or experience are veritable "babes in the wood" on a western homestead or a grain-belt farm, whereas on a small tract of land adjacent to the city and their regular work they are able to assist in the family support and win back health and strength. It seems inevitable, as President Schurman points out, that the present unsettled conditions must continue to exist until the movement from immense ranches and untilled arid areas to intensive farming methods shall have been completed. America is passing through a period of evolution which is almost a revolution. It necessarily fol-



Four highest-priced jacks ever sold in one sale. Sold at Limestone Valley Farm, Smithton, Mo., in 1909, for \$7,385. There are as good jacks listed for the March 1-2, 1910, sale. See page 57 for advertisement.

lows that high prices exist until the supply and the demand are equalized and those who can labor, but have not the opportunity, the tools or the field, find conditions suitable to them, and assist in the work of feeding themselves and the rest of the world.

INTEREST CONTINUES TO GROW

Interest in the Red Letter Subscription Offer of The Homestead continues to grow. The publisher's selection of what he considers an all-around desirable collection of instructive, entertaining periodicals is meeting with general approval. Hearty letters of commendation are pouring in and thousands of grain-belt farmers are availing themselves of the opportunity to get six high-grade publications at exactly half price.

The offer is simply this: If you will remit \$1.50 to The Homestead, Des Moines, Iowa, the following six papers will be sent you one entire year: The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. These papers are all high class and leaders in their respective fields. They are edited by practical men and designed for practical workers, who must know the important news of the world and the latest word on the various phases of farming without having to read too much to find the practical and the absolutely reliable. Taken together these six papers form a veritable cyclopedia of useful information and advice.

The regular price of these six periodicals is \$3. By taking advantage of this Red Letter Subscription Offer you get them for exactly half price. It is a case of being able to save \$1.50 and at the same time secure the very best and most practical reading matter for the entire year.

HIGH-PRICED ROUGHAGE FOR STEERS.

Roughage is roughage this winter, and as a result of high prices, stockmen are facing a new situation. Grain has been gradually appreciating in value until it has reached the point where it is almost impossible to feed it out to cattle and hogs on the basis of its market value and realize a profit on it. Stockmen stay in the business because of the effect of handling live stock on the land itself. However, when we are confronted not only with sixty-cent corn but with fifteen-dollar hay, we are apt to become alarmed. One instance has been called to our attention where hay at a farm sale sold under the hammer at \$25 per ton. This particular sale was held in a community noted for corn production, where anywhere from 75 to 90 per cent of the stalks were left in the field last fall.

The experience of the season ought to be a lesson that will not soon be forgotten and it should really result in introducing a new system of handling our crops. This country no longer produces hay enough to maintain farm animals and to meet the demand in our towns and cities. If we continue the policy of selling hay we must utilize other forms of roughage, otherwise the farms of the central West cannot maintain their present live stock capacity.

Feeders who have never before used straw for roughage are feeding that product this year and on the basis of present values of all kinds of roughage possibly it is as cheap as any. While we all know that for winter steer feeding purposes legume roughage ought to be used, yet the supply by no means meets the demand and we have to do what is expedient rather than what is best. We will miss the important lesson which the conditions of the present winter ought to teach us if we fail to realize the fact that in the future we must do one of two things. We must either put a larger part of our corn crop into the silo or we must cut our fodder and shock it in the fall so that it may be fed out during the win-

ter. The men who have silos this winter are strictly in it. Some time ago we talked with a stockman who filled two silos last fall and this is what he said:

If it were not for my silos I would absolutely be eaten out of house and home. I am making gains of one pound a day on my young cattle, on ensilage alone, while if they were allowed to rough it through as they have in the past, they would be lighter in the spring than in the fall. I feel sure that a silo will pay for itself in a single year under present conditions, because just think how much hay and other feed it would take to carry 100 cattle if they were even maintained, saying nothing of gains. I think under present conditions it is absolutely impossible for the man who raises his own calves and feeds them out as steers, to show a gain when they are ready for market if he does not take advantage of the use of the silo as a means of economizing on his food supply.

We have talked with scores of men who use the silo and their views on the subject are absolutely uniform. For many years the erection of a silo was recommended to dairymen in particular, but in recent times, in view of prices of grain and roughage, ensilage has rapidly risen in popularity among those who are raising cattle for beef. As we have had some fear as to the outcome of feeding operations for the present winter, because of the effect of conditions driving men out of business, we still anchor our hope to the belief that men will not sacrifice their own best interest by dropping live stock production, but that they will meet the new and modern conditions through a more judicious use of the food stuff that is produced on their own farms.

SUPERIORITY OF COUNTRY LIFE.

An Iowa subscriber raises some interesting points in the discussion of the superiority of country life over city life. He says:

Taking the life, enjoyment and prosperity of each, the country has the most advantages. Everything is outrageously high in price for the city laborer of today that must depend upon his daily work. Meat, eggs, butter and other staple products must be taken off of his table because of the high prices. These products that the city people have to buy the farmer does not notice, as he raises them himself and high prices do not stop him from having them. Another thing, the city is not so healthful as the country. People do not get out in the open air enough. Diseases are far more liable to spread in the city than in the country. As a rule, also, towns are more of a rough sort of place for loafers and drunkards on account of the saloons. In the country the people are their own bosses. They earn their living out of the soil, they are not dependent on other people for their living, prosperity or happiness.

The day has passed, never to return, when the farmer was pitied for having to do without city advantages. Today it is conceded that he has healthier surroundings, is on a higher average plane of intelligence and of prosperity and has far brighter prospects than the average city man. Year by year in the city the bread line stretches a little farther and the wrinkles of want and need deepen in the seamed cheeks of men and women untimely aged by hard work and suffering. These people need the fresh air, the blue sky, the health-giving food of the country to win them back to strength. They have learned by bitter experience that pavements, trolley cars and the jangle and clamor of a city are poor substitutes for the sky, the air and the freedom of the country.

It is a fact, as pointed out by this subscriber, that not only are the standards of physical comfort and of prosperity higher in the country, but morals are also higher. The counties where local option prevails are invariably dry counties if the farming element predominates. Life and property are safer in the country than in the city; there is nothing like the same spirit of rancor and envy out under the stars and trees that there is under the roofs of tenements and skyscrapers. The empty, craving stomachs of city folks are responsible for much of the petty thievery and looting; while the bitterness of despair brought about because there is no meal or bed in prospect results in a feeling of injustice and anarchy that leads to the blackest crimes in the calendar. A well-fed person is seldom vicious or criminal. Crime is born as often from a craving stomach as from a black heart or a degenerate soul.

The superiority of the country over the city is coming to be more generally recognized than ever before. There is no longer any talk of "the poor farmer," no insinuations of "only a farmer." City folks have come to realize that early rising hours do not nec-

essarily mean hardships and a narrowed outlook on life. They are coming to see that the man who rises early and goes out among the lowly things of life and the everlasting forces of nature is the man with the clear brain, the steady eyes, the filled stomach and the joyous heart; he is the man to be envied.

THE MEAT BOYCOTT.

It is interesting to note what effect the boycott on meat is having. Instead of reducing the price because of the decreased demand (as the boycotters planned), the wholesale price of beef has already raised one cent per pound, while a slight advance has been made in pork, veal and mutton. The price of shoes is to be advanced because leather is scarce and leather is scarce because few animals are being slaughtered because the people are foolishly abstaining from meat in a foolish campaign to force down the existing prices. The advance in the price of shoes directly affects large families, which are the ones most earnest in the meat boycott. Instead, therefore, of getting their meat any cheaper, these people are paying more therefor and are now confronted by an increase in an article of wearing apparel practically as necessary as any foodstuff.

In the zeal to boycott meat many amusing incidents are coming to light. One city lady is reported as saying, in reply to the inquiry as to what she would eat in place of meat, that she would simply eat gravy, as she liked that better than meat, anyway. Perhaps some genius will come along with a plan for making gravy out of sawdust or blotting paper, but until that process is devised the question naturally arises how meatless gravy is going to be provided for that particular meatless home.

The people were undoubtedly driven well-nigh frantic by the high price of living, but the boycott on meat is foolish and futile. It has progressed far enough already to prove this conclusively.

THE AERATION OF SOIL

Experiments have shown that a cubic foot of soil from drained land is much lighter than the same amount of soil from undrained land after both have been thoroughly dried out. This means, therefore, that a drained soil contains more pore space and porosity is desirable because it means the admission of air in between the soil particles. Where the water is not removed from a compact soil from below, its only outlet is through the medium of evaporation and this has two undesirable effects. In the first place, evaporation cools the soil while in the second place, the upward movement of water tends to exclude the air, and of course in the absence of air, the roots suffocate just as animals suffocate when the supply of oxygen is insufficient.

There is another important result of the increased porosity that results from drainage. In a bulletin on the subject of drainage, Prof. W. H. Day, of the Ontario Experiment Station, says that a drained soil when ready to work, that is, when ready to cultivate, has more water in it for the crops than an undrained soil when it is ready to work. This is because the drained soil has more pore space. On this point Professor Day says:

By actual test of a sample of loam brought in from the field, and one part packed like undrained soil, and the other left loose and porous like drained soil, I have found the latter after being saturated and allowed to drain, to retain 28 per cent more water than the former after being treated in the same manner. We must conclude that between drained and undrained land the difference in water-retaining power is somewhat similar. Let us see what this means: Loams, compact, have been proven to retain, after saturation and drainage, from four to five inches of water in the first foot of soil (they are about 50 per cent pore space), and nearly as much in the second and third. Twenty-eight per cent of four inches amounts to 1.12 inches, hence drainage, by rendering a loam more porous, makes it retain about one inch more of water in each foot of soil; and if drains are three feet deep, this would mean three inches more of water than if the soil was not drained. Now the average rainfall for the summer months is as follows: April, 1.57 inches; May, 2.30; June, 2.94; July, 2.96; August, 2.18; September, 2.21; not three inches for any month, hence the water saved in the soil by drainage three feet deep is about equivalent to one month's rain. And this difference is maintained as late in the season as there is sufficient rain to saturate the soil, and a similar saving occurs at every heavy shower afterward. Two

things prevent rain from sinking rapidly into undrained soil—first, the scarcity of pore space; and, second, the air escaping upward (there's no other outlet for it); half the surface pores must be full of escaping air, while the other half are full of descending water. In drained soil the air can and does escape downward through the drains as the water presses from above, and thus all the surface pores, instead of half, are absorbing water, and, besides, the pores are larger than in the undrained. It follows, then, quite naturally that drained land must absorb water much faster than undrained, and, therefore, that run-off and consequent loss cannot occur as early on the former as on the latter, and therefore, that the drained land effects a considerable saving of water at each heavy shower.

Those who have had any experience in timber countries will recall the great difference in the character of root development in trees on drained and undrained soils. Take for instance, the ordinary pine stump; the deep-rooted ones are always found on high, naturally well-drained land, while the shallow-rooted pine grows on flat, wet, bottom land. Where tree roots penetrate the soil deeply, as they will on well-drained land, the forest is always much thicker than where the roots spread out on the surface and the same principle in growth applies to all kinds of crops. To remove the water downward, rather than to allow it to evaporate is an advantageous principle in the growing of all plants of any economic value.

CORN AND COB MEAL FOR STEERS.

A subscriber who is feeding out a car load of steers wants to know if it will pay to grind the corn. He says that he has a small grinding outfit, but that it is rather a slow operation to grind the corn, cob and all. The question is, will the increase in gains from ground grain offset the labor involved in grinding?

Such experiments as have been conducted to ascertain the value of corn and cob meal indicate that grinding is possible. At the Kansas station ten steers were fed for a period of 140 days on corn and cob meal and made an average daily gain of 2.25 pounds, while another bunch of steers fed the same length of time on corn meal, that is, ground corn, without the cob, made an average daily gain of 2.03 pounds each. It even required a less weight of corn cob meal to make 100 pounds gain than corn meal, as shown by the fact that 732 pounds of corn and cob meal were consumed in making 100 pounds gain, while 795 pounds of corn meal were required to make the same gain. On the basis of those results it would certainly pay to feed corn cob meal.

So much for experimental work. Now for a little practical experience. A considerable part of the 1909 corn crop was put into the crib in rather poor condition, and as a result it is not feeding out very well. Many of the cobs were water-logged at cribbing time and they very much resemble a solid lump of ice. That makes a very poor kind of feed to make rapid gains on, even though every ear is broken once or twice before being fed. We have no hesitation in saying that with a given amount of grain it would not be difficult to increase the daily gains on steers at least one-half by grinding corn and cob meal together. On a car load of steers one or two individuals are off feed this year all the time when fed whole corn, and we believe that may be attributed to the fact that the frozen cob gives the steer either a sore mouth or affects injuriously his teeth.

It is no light task to shell corn and then grind it for a big bunch of steers, but it is not a killing matter to grind corn and cob meal enough for a car load of steers even with an ordinary two-horse sweep mill. A good man with a change of teams would be able to grind anywhere from seventy-five to 125 bushels of corn cob meal in a day, and on that basis it is not a difficult matter to figure out that the cost per bushel is rather small. We, therefore, go on record as being highly favorable to the plan of grinding for steers and recommend it not only to those who have grinding outfits, but also to those who do not own one. Where a considerable number of steers are to be fed for a period of ninety or 120 days, the saving in grain effected by grinding will pay for an outfit then and there.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

When it is dry enough to do a good job of stalk cutting it is also dry enough to start the plows. Work is coming with a rush as soon as spring opens, and many of my neighbors are breaking their stalks with the ground frozen, rather than spend the time to cut them when it is so they can keep the plows on the move. As a society friend would put it, early plowing is in correct form.

To me, the real funny column is one edited by a city sprout, in which farm advice is seriously given. I have observed for years that the writers on this paper are practical. Every one of them is a real farmer. This makes all the difference in the world with me.

In advising his son to plant trees, the old Scotchman spoke thus, "They'll be growing while ye're sleeping, Jock." Pretty good advice. I aim to plant more evergreens this spring.

The other day I saw a forerunner of spring sitting in front of a blacksmith's shop. It was a dull disk harrow there to be sharpened. It is better for you and for the 'smith, too, to take such work in so it can be done before the spring rush.

It is also a good plan to take the teeth out of your smoothing harrow, throw them in a gunny sack, and take them down to the 'smith to be sharpened. You do more execution with the same power when the harrow teeth are sharp.

I have made it a point to ask several subscribers of this paper for their views on the Red Letter Subscription Offer that was made some time ago. In every case the answer I received was an expression of surprise that so many good papers could be obtained for so small a sum. The list includes The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. This combination of papers is offered for the small sum of \$1.50 for a whole year.

Buy, borrow or hire a fanning mill and use it this year. Use it whether you think it necessary or not, for no grain comes from a separator so clean that a fanning mill will not make it cleaner. You'll be surprised at how dirty the cleanest is.

If the average seed catalog doesn't make an optimist out of a man there is no use in taking pills.

A man can be worse off than to have hogs and no corn to feed them, he can have corn and no hogs to eat it, and, worse yet, have neither hogs nor corn. The man with a thrifty bunch of shoats, and corn enough to make them weigh "two-fifty," should not complain about hard times, except the hard time he has keeping the buyers away who want those shoats.

The "spread" between the price of corn-fed cattle and good coming-two's is not as great as it used to be. One of my neighbors recently shipped steers out of his feed lot, for which he got \$6.20, and brought back coming-two's to take their place, paying for them \$5. It seems to me he hasn't got "spread" enough to work on, but the quality of his purchase may help him out.

I can remember when it took a mighty good cow to bring \$15. My father once bought some fine grade Short-horns for an average of \$14 each. But it took just as many bushels of corn then to buy a cow as it does now. You see there are two ways of figuring on the price.

Winter wheat is finding its way far into the North, and once it is established in a new field there is no more spring wheat sown. It seems to me that it is only a matter of acclimating to put winter wheat hundreds of miles further north than it is now, but perhaps I am wrong. However, I can

remember when Iowa was thought to be entirely out of the winter wheat belt.

Winter oats appeal to me as a crop that can be developed into one of great popularity. I wish the experiment stations would take hold of this crop with more interest than they do, especially along the border of what is now called the safety line for winter oats. By experimenting, breeding and working with it, I believe winter oats could, in time, be made as hardy as winter wheat. Why not?

Why is it the average man doing custom work with a sheller cannot make the records of non-stop runs that thrashermen can? A near neighbor of mine had 1,400 bushels of corn shelled last week, and the man who did it was there three days with a four-hole sheller. This is time killing for you.

Some folks are crying for rock roads and overlooking the opportunities before them for improving the dirt grade. One thing looks logical to me: The man who kicks on the cost of dirt roads is going to be a kicker on the cost of rock roads. We would all have good roads if they could be had without cost.

Last week my telephone was out of sorts and wouldn't work. This, more than anything else, set me to wondering how I could get along without a 'phone. It seemed like pulling teeth just to lose the service for a day.

Sometimes very good machinery goes for a song at public sales, but I observe that those farmers who go always to the sales for their machinery soon have their yard littered up with a lot of junk, and get little real satisfactory service out of it, either. As a rule, the man who starts in with a machine where some other man has left off does not know what machine satisfaction is. He is always monkeying with the old things to keep them fairly serviceable.

The neighbor who has three or four sows and three or four cows and no male, has to depend upon a neighbor's herd header, all of which is more or less troublesome to the neighbor. Many times, when in a hurry to get to work or to start for town on some errand, I have been confronted at the gate with a neighbor ambulating along with a wagon adorned with high sideboards. That invariably means a delay of at least an hour, but one must hold his temper and be satisfied and glad if he gets off without a dose of cholera in his herd.

And still the butts of every corn shock are frozen to the earth. In the meantime, the man who stacked or shredded his fodder early in the fall has no regrets.

Cold weather is hard on fork handles. They break easier when cold and the man using them feels more like furnishing the strength that breaks them. After all, though, it is lack of judgment rather than great strength that breaks out handles.

Four days recently spent in a city were enough for me. It seemed good to get back to the old clothes, the old felt boots and the chores, even if cold weather and rough roads contribute a large share towards making the work harder.

One man up our way has built a silo twenty feet deep and thirty-five feet in diameter. Just what he had in mind when he perpetrated that deed of foolishness is more than I can tell. If he could reverse these dimensions he might have a better preserving jar for his corn.

One of my dairymen friends tells me that his cows have never done so well as they are doing this winter. He attributes his present success to the fact that last June he partly filled his silo with clover ensilage. This he

fed to the herd during the dry months of July, August and September. He thought he reaped sufficient reward for his efforts last fall, but the cows are just simply outdoing themselves now to repay their owner for having kept them in good condition during "fly time."

Keeping the boys on the farm seems to be a subject of more concern to parents who have no boys than to those who have. But if you'll investigate you usually find those parents have several girls that will be of marriageable age some day.

A reliable authority tells us that a Philadelphia minister had to sell his farm in self-protection. He got to raising such big crops on his broad acres that the entire city knew of his efforts and many of the residents persisted in flocking out to his farm.

There are a good many ways of keeping a boy straight in school, but when I was a boy in school, giving "head marks" wasn't one of them that worked successfully. Ruler marks brought better results.

The saying "without pride of ancestry or hope of posterity" comes as close to describing the mule as is possible.

Coal is scarce in some localities, but none of us will think of burning corn for fuel. I can remember when a great many of my neighbors burned corn. Coal was \$8 a ton that winter, corn fourteen cents a bushel and the roads over which the exchange had to be made very bad. Under the circumstances, I would burn corn again, but never expect those exact circumstances to exist again, at least as to fourteen-cent corn. I would not be so sure as to the \$8 coal.

The rush of spring work will be a rush this spring. Little or no fall plowing has been done, consequently there's nothing done towards any of the crops that must be put in within sixty days after the first plow will be permitted to start. Horses will be soft, and some may be ruined because of this softness. The tendency to hurry will, in some cases, bespeak poor work done, for quantity is nearly always secured at the cost of quality. The idea will be to do as much as possible as well as possible.

The other day I listened to a hundred or more farmers discuss the subject, What is the Best Breed of Hogs? When a dozen or more had their say further discussion was stopped, as it became clearly evident that any breed could be made a market topper by right care and feed. The breed, no matter which one, will do its part if the feeder will do his.

It is clear in my mind that many shippers of grain are now taking too much margin. A short time ago, when freight rates and other cost of handling was no more than now, dealers here were doing a profitable business on a difference of seven cents a bushel; now they ask and get ten and twelve cents.

There are two ways to view almost any question. They tell us prices for farm products are now high because consumers are in excess of producers, consequently the demand is greater than the supply. This, it is further affirmed, means high prices right along. But what about the great army of consumers, should their money give out and they become no longer able to pay the prices asked? There is always another side to a wall.

They tell me any ordinary bright boy can attend an automobile school for six weeks and step into a job as chauffeur, commanding \$50 to \$80 a month. If this is the case, look for another big loss in hired men. All I can say is, if the young man can earn \$50 to \$80 a month as easily or easier than \$25 to \$30 on the farm, he's a fool for not doing it. But how about the amount each would save?

City people are compelled to keep their sidewalks clear of snow. An acquaintance of mine in town says that he does not believe the farmers have any job quite as disagreeable as being

obliged to shovel snow for half an hour against the wind before going to work in the morning. We told him that no farmer would be foolish enough to shovel snow against the wind. We would throw it the other way.

SHORT-FED STEERS.

The Illinois Experiment Station has recently published a bulletin giving the results of feeding out a bunch of thirty-four steers for a period of eighty-nine days. These steers were choice, fleshy, three-year-old feeders weighing at the beginning of the experiment 1,073 pounds. They were divided into two lots and put on experiment on the 25th of August. Both lots received a ration composed of corn meal, oil meal and clover hay but there was this difference, that the clover hay in lot 2 was chaffed by running it through an ordinary ensilage machine, while the hay in lot 1 was simply fed whole. It should be added also that the chaffed clover hay was mixed with grain in the case of lot 2, and fed through a self-feeder to which the cattle had access at all times.

During the eighty-nine days the steers fed whole clover hay consumed daily nineteen pounds of ground corn, 2.92 pounds of oil meal and 13.45 pounds of clover hay. The other lot averaged 21.52 pounds of corn, 3.13 pounds of oil meal and 12.77 pounds of chaffed clover hay daily.

What did they do with their feed? The first lot made an average daily gain of practically three pounds, or to be exact, 2:98 pounds, while the steers fed chaffed clover hay made an average daily gain of 3.32 pounds. These figures indicate that the steers fed chaffed hay through a self-feeder made practically one-third of a pound more gain a day each, than did the steers fed whole hay.

At the end of the eighty-nine days these cattle were marketed and the steers in lot 2 were valued at fifteen cents per hundred higher than those in lot 1, that is, those fed whole clover hay, but the two lots were afterward turned together and sold at \$5.60 per hundred. It may be mentioned that the experiment was conducted in the year 1905.

On the basis of corn at thirty-five cents a bushel and clover hay at \$8 per ton, the steers in lot 1 turned a profit for their eighty-nine days' feeding, over and above the cost of feed, of \$1.28 each per head, while the steers in lot 2 gave a profit for the entire period of \$3.40 per head. On the basis of forty-five-cent corn, feeding operations resulted in a loss of \$1.73 in the case of lot 1, while in the case of lot 2, it was practically an even break, there being neither a loss nor a gain. On the basis of fifty-cent corn, each steer lost \$3.25 in lot 1 and \$1.72 in lot 2. The margin between buying and selling price was \$1.20 per hundred in the case of lot 1 and \$1.35 per hundred on the steers in lot 2.

The conclusions arrived at by Professor Mumford, who had charge of these experiments, are as follows:

Mixed feed when fed through a self-feeder is especially advantageous for accustoming cattle to a heavy grain ration in a short time. By the use of mixed feed and the self-feeder the necessity of a skillful feeder is reduced.

Cattle fed chopped hay mingled with concentrates through a self-feeder will consume larger quantities of feed than when the same feeds are fed separately at regular periods twice per day.

By chopping the hay, mingling it with the grain and feeding through a self-feeder as in lot 2, more rapid gains were secured and at slightly less cost per pound than when these same feeds were fed separately twice per day as in lot 1.

The larger gain of lot 2 resulted in better finish, fifteen cents per cwt. higher selling price, and \$2.05 per steer more profit (not including pigs) than lot 1.

It may be added that Professor Mumford also computes that on the basis of thirty-five-cent corn, the money invested in the cattle in lot 1 for the ninety days, paid 7.36 per cent interest on the total expenditure, while the cattle in lot 2, where the clover hay was chaffed paid interest on the investment amounting to 13.88 per cent. It should be added that this profit under present conditions, with corn selling between sixty and seventy cents a bushel would be entirely wiped out and result in a significant loss.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

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EARLY HOG PASTURE.

The following communication has been received from a subscriber at Melrose, Iowa:

I find that I am going to be short of hog pasture during the coming spring and summer. I have about 100 hogs and it was my intention to finish them this winter, but feed is so high that I have decided to carry them over on a very light ration and finish them for the July or August market, but I am short of pasture and would like if you would enumerate the crops that will give the quickest and best results when used for that purpose.

Where permanent pasture is not available and it is absolutely necessary to get a quick growth, we doubt if there is anything that will equal the small grain such as oats, wheat or barley. Of course these make only a temporary pasture, but, as we understand it from the subscriber's inquiry, that is the element of chief consideration. A mixture is better than a single variety and we have found from

experience that two or three pecks of ordinary field peas sown along with the other grain will thicken up the mixture, add materially to its palatability and really increase its protein content, as peas belong to the great legume family. A most excellent mixture of seed would be three pecks of peas, four pecks of oats and four pecks of barley per acre. It is sometimes entirely practicable to seed down this mixture with clover and timothy, but that depends upon how severely it is to be pastured.

Of course it goes without saying that this mixture cannot be pastured for a period of five or six weeks after it is sown, but after that it will furnish a large amount of most excellent feed and pasturing which will greatly reduce the amount required to make a given gain on hogs.

THE HOG A SAVINGS BANK.

A Missouri subscriber sends the following communication:

The hog is the farmer's savings bank. He can be mismanaged the same as a hank. He is the gleaner in the grain field, the salvage in the orchard and elsewhere. He is a converter of the by-product of the dairy—hutter-milk, separator milk and skimmed milk—into a merchantable commodity.

The feed question is an important one in the hog business. The hog is really the economic cog on the farm. He can give back for a bushel of corn double the pounds of gain that a steer can from a like bushel of corn. While the usual increase of cattle is 60 to 80 per cent, the hog's increase is 600 per cent. It takes the steer two years to get to market while the hog is cashed in six or eight months.

The hog is a good foundation stone on every farm, and it behooves every farmer to be as well informed as possible, and use the best methods and systems of handling, feeding, protecting and marketing the hog. There are some farmers who have an idea that any old place is good enough quarters for the hogs and all one has to do is just to throw the feed into them and let them root it out of the mud and filth. This is not economical. The hogs will not do well in filthy places, and there is a likelihood of a waste of one-third the feed given them. Give the hog good quarters and good feed and he will be a profitable animal from year to year.

At prevailing market prices the hog undoubtedly is the winner in the mat-

ter of gains and profits of all farm animals. There is a shortage of meat the world over, and if we are not mistaken, the demand for meat will continue until the end of time, and because of his ability to make cheap gains, the hog will always do his full share in meeting the demand.

The number of sows that are to be carried through the coming season as breeders, has already been determined on, and anything that is said now will neither increase nor decrease the number. The important thing, therefore, is to handle these properly so that largest possible average of healthy pigs may result. The number of pigs per litter and the strength of the pigs depend largely upon two things: Amount of exercise taken by the sows and kind and character of the feed used. On the first question it may be said that sows during the next few weeks should be shut away from their sleeping quarters during a considerable part of the day so that they will be kept on their feet; scatter part of their grain over the ground and let them spend their time picking it up rather than to allow them lazily to take the feed from a trough. Sows kept on their feet six or eight hours a day until farrowing time will invariably produce strong pigs.

As to the feed, that depends somewhat on conditions. Where oats are available there is nothing better for a brood sow. It is true that oats are not very palatable to hogs, but they will eat enough to keep them in good flesh and we have never yet seen weak pigs where oats were fed. A mixture of equal parts corn and bran will give splendid results, while corn eight or ten parts to one part of tankage is also a splendid food. A ration composed of one pound of oil meal to six or eight pounds of corn will make a well-balanced ration, while of course middlings are also good for the brood sow. The important thing is to keep away from a corn ration; that is, corn alone. We believe that if the right kind of care were given and the prop-

er kind of food used during the next three months the sows of the entire central West would raise an average of six or seven pigs each, and if that average could be attained there would not be so much complaint in the future about scarcity of meat.

JAMES J. HILL'S WARNING.

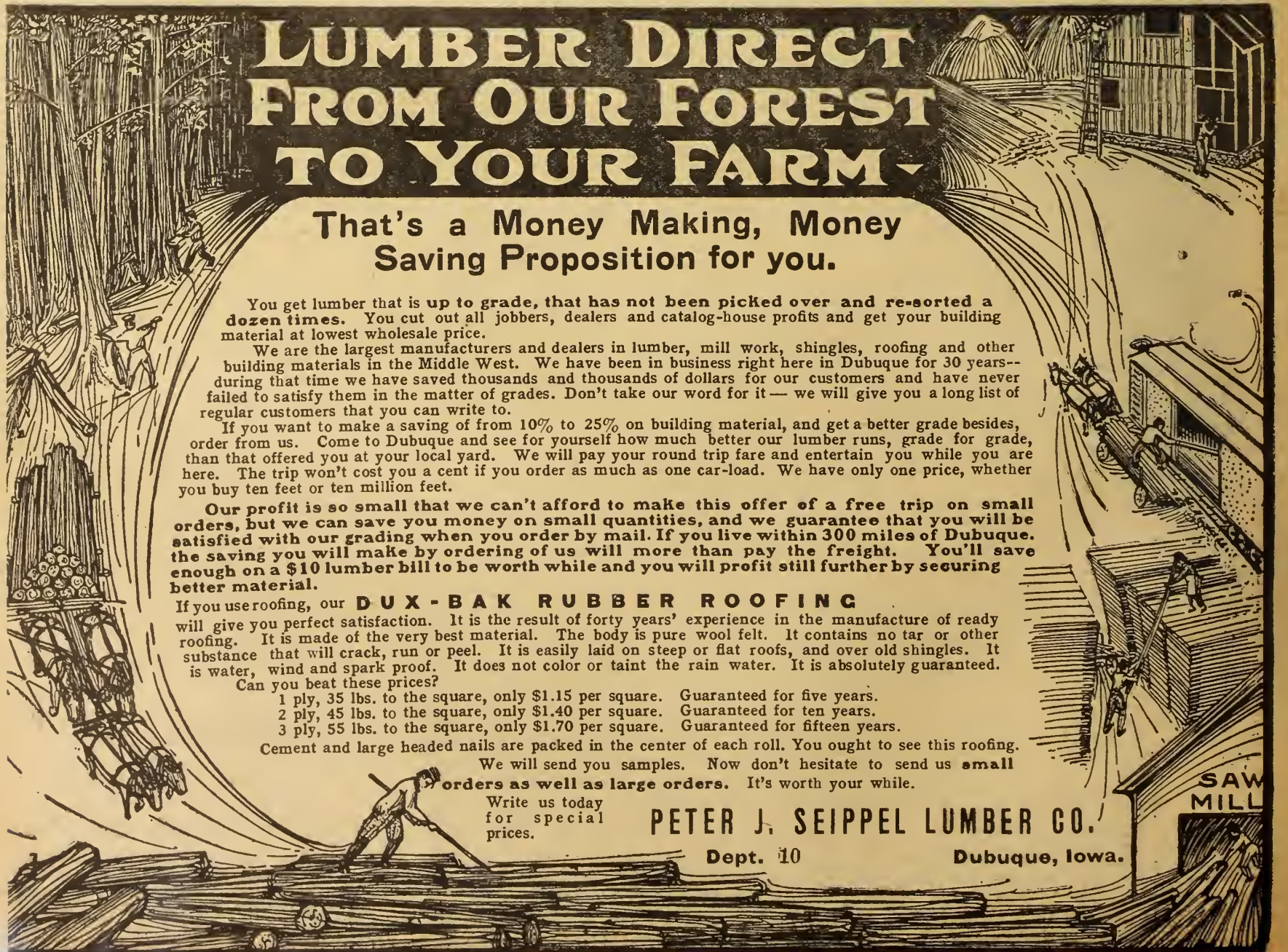
James J. Hill, the noted railroad builder, continues to sound his pessimistic note of warning to the farmers. He is quoted by an eastern newspaper as having said, during the past week:

Agriculturally speaking, the earth is not over populated anywhere. There is congestion in the cities. The problem is to relieve this congestion and scatter the unproductive population to the farms. Then when we get them there we must teach them how to farm better than nine-tenths of our farmers today know. I believe statistics will show that not over 50 per cent of the farms in the United States are more than half under cultivation. By this I mean that our present methods are so loose and exhaustive of the soil that it becomes necessary for the average farmer to let about half of his tillable land lie fallow every other year in order that it may recuperate.

When asked the remedy for the present alleged sloth of farmers, Mr. Hill is quoted as frankly admitting that he does not know any. Legislation will not help, he admits, for statute books are already crowded with laws designed to relieve the condition, but which are inadequate or never invoked. Mr. Hill concludes that human nature must be regenerated along with the land and every farmer come to realize his responsibility and pledge himself to get the utmost possible from every acre.

The danger of a food famine may not be as imminent as Mr. Hill would have us believe, but there is ample excuse to listen to his warning. The twentieth century in agricultural America must find better use made of opportunities than ever before. Science and Nature have done what they can; the problem is now up to the individual.

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CURRENT EVENTS

THE opponents of Speaker Cannon are finding satisfaction in the result of the election of a successor to the late Congressman De Armond in the sixth Missouri district. The republican candidate took a strong stand in favor of "Uncle Joe" and pledged himself to vote for him as speaker if he were elected. The democratic candidate naturally took the opposite stand and was elected by a majority twice as large as Congressman De Armond usually received, popular as he was. The personal qualifications and popularity of the opposing candidates undoubtedly played an important part in the controversy, but political straws are grasped at eagerly. A determined effort is being made all over the country to deprive Speaker Cannon of his place and power. Opposition has developed before, but it bids fair to assume the proportions of a revolution this time.

IT IS proposed to have the congressional investigation as to the cause of the high price of living conducted by the ways and means committee of the house, which body has recently made an exhaustive inquiry into tariff schedules and workings. The tariff is charged with being an important cause in the prevailing high prices and the ways and means committee would take up the new work with a foundation of useful knowledge. The trusts and the overproduction of gold are other alleged causes which congress will take into consideration. Champ Clark summed the situation up concisely when he said: "Unless the matter is gone about in a systematic manner it would be a hard task to find out the bottom truth about it." Practically every person has an opinion as to the main cause. A report setting forth a great diversity of ideas would be of little value. The examining body must be a national jury to return a verdict of guilty or not guilty against the various defendant causes.

THE Paris flood is now a thing of the past, but the relief work must continue for some time. The receding waters caused the spirits of the volatile Parisians to rise correspondingly, but the flood left filth and even pestilence in its wake. Not since 1615 had the French capital been so threatened with absolute destruction by the angry waters of the Seine. The most famous boulevards were converted into canals and the noted cafes and theaters were closed night after night, while a line of dimly flickering hand lanterns illumined the thoroughfares which are usually sparkling white ways. The Red Cross Society and kindred organizations raised money for the sufferers all over the world, but the misery of the people whose homes were swept away will never be known. The flood was a manifestation of Providence, the why and wherefore of which cannot be determined. As to the misery, suffering and poverty it occasioned, however, there is no question.

FOLLOWING close on the terrible mine disaster at Cherry, Ill., came explosions in mines at Primero, Colo.; Drakesboro, Ky.; Las Esperanzas, Mexico, and Bartonville, Ill., resulting in the loss of over 150 lives, bringing the mine casualties since November 13th up to 441. Mining is an extremely hazardous occupation, fraught with constant danger notwithstanding the numerous safety appliances and the model condition of many of the mines of today. Government investigators are constantly at work trying to devise appliances and methods to prevent fire damp, explosions and cave-ins, but despite all their efforts the record of holocausts and fatalities continues to grow. Practically every state in which mining is carried on has adopted laws designed to safeguard the lives of the miners, but man proposes and God disposes. In some instances the disasters are

caused by the carelessness of the men themselves, for until human nature is made universally cautious and conservative safety appliances can never become perfect and unailing.

PRESIDENT TAFT has received assurances from the so-called "insurgent" leaders in congress that they will support his legislative program, the chief items of which are: Amendments to the interstate commerce law, conservation of natural resources and postal savings banks. The progressives will not stand for the ship subsidy and will be divided on the question of federal incorporation. At the present time, however, it looks as though the president would see most of his recommendations crystallized into laws.

THE lower house of the Illinois legislature has passed a statewide direct plurality primary bill, which provides for the nomination of all officers from top to bottom by direct plurality primary, with no advisory vote, however, upon United States senator. Illinois has already had some experience with a primary law, which was subsequently declared unconstitutional by the supreme court. It has not given up the fight, however, although the two houses are separated on the issue whether the United States senatorship shall be left to the people or to the legislature as formerly. The tendency in other states is undoubtedly to make the people directly responsible for the senatorial choice. The movement virtually began in Oregon, but has swept over the country until fully half of the states allow the electors a direct vote in this important matter.

SIR THOMAS LIPTON, the noted Irish merchant, declares that the thing he cannot be accustomed to in America is the great waste at meal tables. Enormous quantities of food are carried from the kitchen to the table to be toyed with more or less and then sent back useless and destined for the garbage pail. For himself he remarks that he could never bring himself to send his plate away with "leavings" on it. The waste of meat struck him as particularly reprehensible. A living creature had to be deprived of its life to furnish food for men, of which man made the scantiest use. Huge steaks are served, out of which only the tenderest spots are eaten. The question of nutrition gives way entirely to taste or whim. No soil, argues Sir Thomas, can furnish enough produce to permit such waste. Sir Thomas has undoubtedly struck at one of the causes of the present high prices. Extravagance and waste are factors which cannot be overlooked, as important as the tariff, immigration and gold production. The fact is, the people themselves are largely to blame for existing conditions. The sooner they learn this the easier it will be to discover a remedy.

AN INTERESTING contribution to the economic discussion of the day is made by the committee of the leading labor unions which has been investigating the cost of living in large cities. This committee reports that the lowest amount on which a family can live in simplest decency in New York is \$850 a year. This is an increase of \$100 in two years. It costs a fifth more to live in the metropolis, the investigators add, than in large cities of the grain belt. In this connection it is interesting to note that one of the prominent clergymen of Pittsburg has announced that he will not marry any couples unless the intended bridegroom can prove that his income is at least \$2,000 a year. The minister declares that with the present price of commodities this income is necessary to live. "Poverty leads to divorces," he says, "and I do not propose to assist the divorce cause." Incidentally, the whole affair shows how much better

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THE postal savings bank bill is coming in for careful attention in congress these days. The bill establishes savings banks in conjunction with local postoffices, no deposit in excess of \$500 to be allowed and interest at the rate of 2 per cent per annum to be paid on all deposits. The bill provides that the postal banks shall deposit their money in the local state and national banks and receive thereon 2½ per cent interest. This is designed to retain the money in local circulation and keep the postal banks from competing with the regularly established banks. It is argued that poor people who have never acquired the banking habit will trust their money with Uncle Sam and so be educated up to banking in the regular old-line banks. The measure has President Taft's endorsement and seems in a fair way to pass at the present session of congress.

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Lincoln's Plea for Small Farms

Remarkable Address Delivered Fifty-one Years Ago Before the Wisconsin State Agricultural Society Showed Sagacity, Foresight and Agricultural Knowledge of the Martyred President

WITH Lincoln's birthday only two days distant it is appropriate to consider the martyred president's tribute to the American farmer and his views of agriculture as set forth by him more than fifty years ago before the Wisconsin State Agricultural Society. Lincoln showed his prophetic vision in this forecast of a day when intensive farming would come to pass. The undoubted tendency of the day in the American grain belt is toward the more thorough cultivation of smaller farms. Lincoln made an earnest, eloquent plea for this in the address quoted below. That the president was a true, loyal friend of the farmer was evident when he declared, early in the address, that the farmer's is the largest interest of any worker and that it "follows that that interest is most worthy of all to be cherished and cultivated and if there be inevitable conflict between that interest and any other the other should yield."

Lincoln's plea for smaller farms and more thorough tilling of the soil in order that yields may be materially increased is as timely today as it was a half century ago.

"My first suggestion is an inquiry as to the effect of greater thoroughness in all the departments of agriculture than now prevails in the Northwest—perhaps I might say in America," he said. "To speak entirely within bounds, it is known that fifty bushels of wheat, or 100 bushels of Indian corn, can be produced from an acre. Take fifty of wheat, and 100 of corn, to be the possibility, and compare it with the actual crops of the country. Many years ago I saw it stated in a patent-office report, that eighteen bushels (of wheat) was the average crop throughout the United States. As to Indian corn, and indeed, most other crops, the case has not been much better. It is true that heretofore we have had better crops with no better cultivation, but I believe it is also true that the soil has never been pushed up to one-half of its capacity.

"What would be the effect upon the farming interest to push the soil up to something near its full capacity? Unquestionably it will take more labor to produce fifty bushels (of wheat) from an acre than it will to produce ten bushels from the same acre; but will it take more labor to produce fifty bushels from one acre than from five? Unquestionably thorough cultivation will require more labor to the acre; but will it require more to the bushel? If it should require just as much to the bushel, there are some probable, and several certain, advantages in favor of the thorough practice. It is probable it would develop those unknown causes which of late years have cut down our crops below their former average. It is almost certain, I think, that by deeper plowing, analysis of soils, experiments with manures and varieties of seeds, observance of reasons, and the like, these causes would be discovered and remedied.

"It is certain that thorough cultivation would spare half, or more than half, the cost of land, simply because the same product would be got from half or from less than half, the quantity of land. This proposition is self-evident, and can be made no plainer by repetitions or illustrations. The cost of land is a great item, even in new countries, and it constantly grows greater and greater, in comparison with other items, as the country grows older.

"It also would spare the making and maintaining of enclosures for the same, whether these enclosures should be hedges, ditches, or fences. This again is a heavy item—heavy at first, and heavy in its continual demand for repairs. I remember once being greatly astonished by an apparently authentic exhibition of the proportion the cost of an enclosure bears to all the other expenses of the farmer, though I cannot remember exactly what that proportion was. Any farmer, if he will, can ascertain it in his own case for himself.

"Again, a great amount of locomotion is spared by thorough cultivation. Take fifty bushels of wheat ready for harvest, standing upon a single acre, and it can be harvested in any of the known ways with less than half the labor which would be required if it were spread over five acres. This would be true if cut by the old hand sickle; true, to a greater extent, if by the scythe and cradle; and to a still greater extent, if by the machines now in use. These machines are chiefly valuable as a means of substituting animal power for the power of men in this branch of farm work. In the

highest degree of perfection yet reached in applying the horsepower to harvesting, fully nine-tenths of the power is expended by the animal in carrying himself and dragging the machine over the field, leaving certainly not more than one-tenth to be applied directly to the only end of the whole operation—the gathering in of the grain, and clipping of the straw. When grain is very thin on the ground it is always more or less intermingled with weeds, chaff, and the like, and a large part of the power is expended in cutting these. It is plain that when the crop is very thick upon the ground, a large proportion of the power is directly applied to gathering in and cutting it; and the smaller to that which is totally useless as an end. And what I have said of harvesting is true in a greater or less degree of mowing, plowing, gathering in of crops generally, and indeed of almost all farm work.

"The effect of thorough cultivation upon the farmer's own mind, and in reaction through his mind back upon his business, is perhaps quite equal to any other of its effects. Every man is proud of what he does well, and no man is proud of that he does not do well. With the former his heart is in his work, and he will do twice as much of it with less fatigue; the latter he performs a little imperfectly, looks at it in disgust, turns from it, and imagines himself exceedingly tired—the little he has done comes to nothing for want of finishing.

"The man who produces a good full crop will scarcely ever let any part of it go to waste; he will keep up the enclosure about it, and allow neither man nor beast to trespass upon it; he will gather it in due season, and store it in perfect security. Thus he labors with satisfaction, and saves himself the whole fruit of his labor. The other, starting with no purpose for a full crop, labors less, and with less satisfaction, allows his fences to fall, and cattle to trespass, gathers not in due season, or not at all. Thus the labor he has performed is wasted away, little by little, till in the end he derives scarcely anything from it.

"The ambition for broad acres leads to poor farming, even with men of energy. I scarcely ever knew a mammoth farm to sustain itself, much less to return a profit upon the outlay. I have more than once known a man to spend a respectable fortune upon one, fail, and leave it, and then some man of modest aim get a small fraction of the ground, and make a good living upon it. Mammoth farms are like tools or wea-

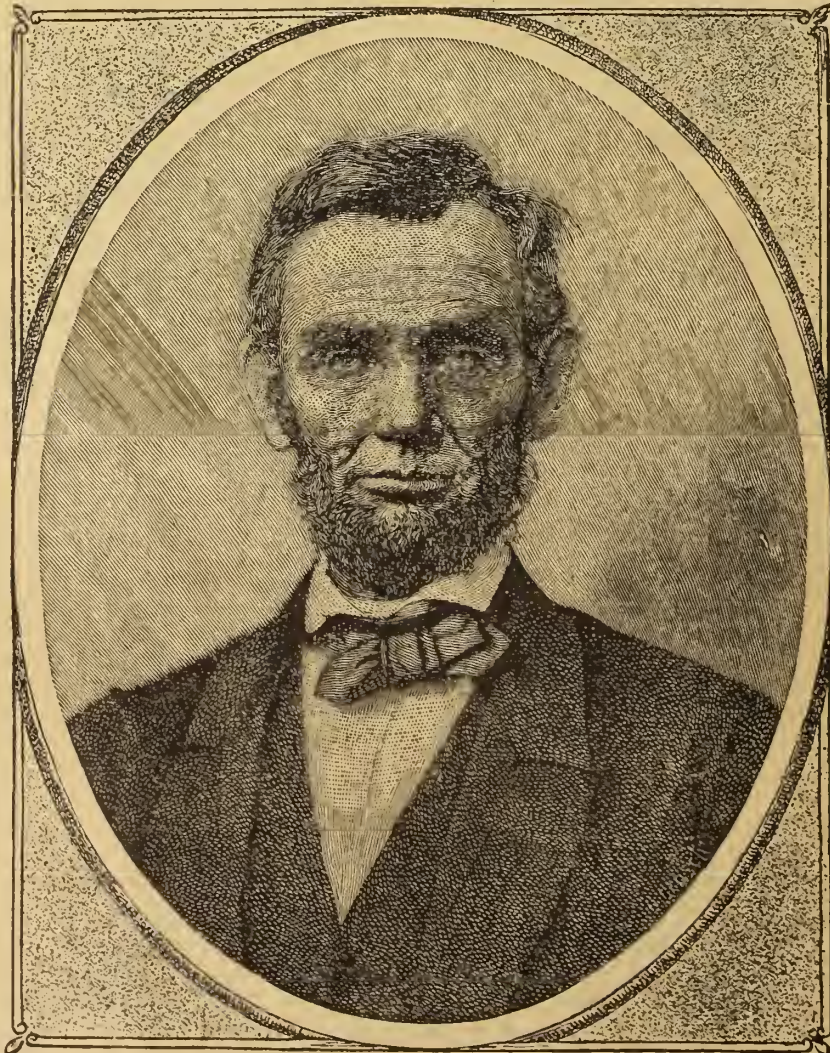
pons which are too heavy to be handled; ere long they are thrown aside at a great loss.

"The prudent, penniless beginner in the world labors for wages awhile, saves a surplus with which to buy tools or land for himself, then labors on his own account another while, and at length hires another new beginner to help him. This, says its advocates, is free labor—the just, and generous, and prosperous system, which opens the way for all, gives hope to all, and energy, and progress, and improvement of condition to all. If any continue through life in the condition of hired laborer, it is not the fault of the system, but because of either a dependent nature which prefers it, or improvidence, folly, or singular misfortune. I have said this much about the elements of labor generally, as introductory to the consideration of a new phase which that element is in process of assuming. The old general rule was that educated people did not perform manual labor. They managed to eat their bread, leaving the toil of producing it to the uneducated. This was not an insupportable evil to the working bees, so long as the class of drones remained very small. But now, especially in these free states, nearly all are educated—quite too nearly all to leave the labor of the uneducated in any wise adequate to the support of the whole. It follows from this that henceforth educated people must labor. Otherwise, education itself would become a positive and intolerable evil. No country can sustain in idleness more than a small percentage of its numbers. The great majority must labor at something productive. From these premises the problem springs, 'How can labor and education be the most satisfactorily combined?'

"By the 'mud-sill' theory it is assumed that labor and education are incompatible, and any practical combination of them impossible. According to that theory, a blind horse upon a treadmill is a perfect illustration of what a laborer should be—all the better for being blind, that he could not kick understandingly. According to that theory, the education of laborers is not only useless, but pernicious and dangerous. In fact, it is, in some sort, deemed a misfortune that laborers should have heads at all. Those same heads are regarded as explosive materials, only to be safely kept in damp places as far as possible from that peculiar sort of fire which ignites them. A Yankee who could invent a strong-handed man without a head would receive the everlasting gratitude of the 'mud-sill' advocates.

"But free labor says 'No.' Free labor argues that as the author of man makes every individual with one head and one pair of hands, it was probably intended that heads and hands should co-operate as friends, and that that particular head should direct and control that pair of hands. As each man has one mouth to be fed, and one pair of hands to furnish food, it was probably intended that that particular pair of hands should feed that particular mouth—that each head is the natural guardian, director, and protector of the hands and mouth inseparably connected with it; and that being so, every head should be cultivated and improved by whatever will add to its capacity for performing its charge. In one word, free labor insists on universal education.

"This leads to the further reflection that no other human occupation opens so wide a field for the profitable and agreeable combination of labor with cultivated thought as agriculture. I know nothing so pleasant to the mind as the discovery of anything that is at once new and valuable—nothing that so lightens and sweetens toil as the hopeful pursuit of such discovery. And how vast and how varied a field is agriculture for such discovery! The mind, already trained to thought in the country school, or higher school, cannot fail to find there an exhaustless source of enjoyment. Every blade of grass is a study, and to produce two where there was but one is both a profit and pleasure. And not grass alone, but soils, seeds, and season—hedges, ditches and fences—draining, drouths and irrigation—plowing, hoeing and harrowing—reaping, mowing and thrashing—saving crops, pests of crops, diseases of crops and what will prevent or cure them—implements, utensils, and machines, their relative merits, and how to improve them—hogs, horses, and cattle—sheep, goats, and poultry—trees, shrubs, fruits, plants, and flowers—



ABRAHAM LINCOLN.

The martyred president lost no opportunity to pay tribute to the American farmer and his progressive methods.

(Concluded on page 41.)

The Kansas Cattalo

By W. D. Neale

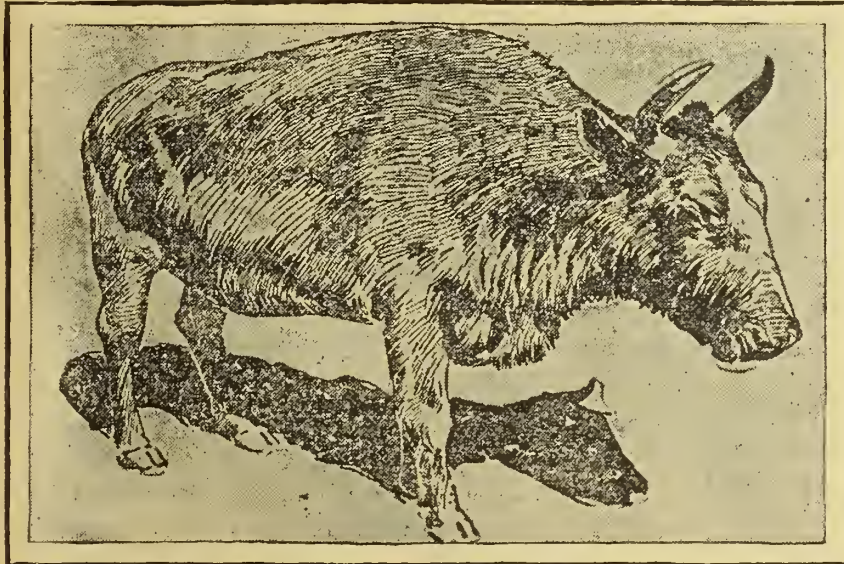
OUT at Garden City, Kan., there lives a man called "Buffalo" Jones, who is proving to be to the animal world what Luther Burbank is to the vegetable kingdom. Buffalo Jones had a part in the founding of Garden City a good many years ago. He afterward became a wanderer, and it is said that at one time he went broke. When he was getting gray he came back to Garden City, and since that time this place has been the center of his wonderful animal operations. He has originated a breed of cattle called the cattalo; breeds of sheep called the Persiarino, Persiashire and Persiacotts; and a breed of goats called the Gorsian. In his own language he tells something of the success of his experiments and his experiences:

I was struck with remorse at having assassinated hundreds of buffalo, so I repented and concluded to devote the rest of my life

side, instead of thirteen as all domestic cattle have, served them to endure fatigue, and thus they could travel for miles and days with little grief.

Buffalo never ran after succulent plants such as the poisonous loco and other noxious weeds. They feasted on the feed best adapted to their needs. Neither did they wander promiscuously over the pastures and cut out the grass with their hoofs as domestic cattle do. They always followed a leader in single file, stepping in exactly the tracks of the leader, thus preserving thousands of blades of grass daily which otherwise might have been destroyed. When they reached the watering places they drank quickly and stepped out upon the dry land instead of lingering and polluting the water, causing tuberculosis and other diseases. Their stomachs have twice as many manfolds as domestic cattle, and they grind their food exceedingly fine, extracting all the nutrition from it, thus requiring much less food.

They never allowed a sneaking coyote or wolf to get a calf, always running with the baby, even if it required days before the little tot could travel to the watering places. If the wolves came in bands, the cows would form a circle and defend the calves, which were always wise enough to keep within the circle. The buffalo never mire in the quick-



THE CATTALO—CROSS BETWEEN BUFFALO AND A SHORT-HORN COW.

to restoring the type. When my last buffalo hunt had ended, I had made quite a sum at shooting them down for fifty cents a head. Others skinned and hauled the hides to the railroad to market. I had seen the millions of buffalo, fat and sleek, all the year round on the nutritious buffalo grass. I imagined I could raise domestic cattle successfully on such wonderful pasture. I invested all I had made shooting buffalo in good graded Short-horn cattle. But the blizzards came, and the cattle turned tail and ran with the storm. They never stopped until they dropped dead in their tracks, and every carcass lay with its head to the south.

Then I knew the pages of time should be turned back. I then realized the buffalo had been made to suit his environments. They never blinked nor winced when the most terrible blizzards howled around them. They stood facing the storms. When hungry, they would thrust their noses into a footprint in the deep crusted snow and buck the crust

sand and quagmires. They wallow through them like a hog. They always lie down with their backs up the hill, so they can easily rise again. The long guard hair protects them from the flies and the hull fly which is such a pest to cattle they do not mind at all. Buffalo are immune to blackleg and never need artificial food or shelter.

After the great blizzard of 1885-6, I went to Oklahoma, that part known as "No man's Land," hunting my cattle. I found that about 65 per cent of them had perished, and of the remaining, most of them were too poor to cast a shadow. I came upon eighty buffalo. They were about as fat as corn-fed cattle, and not a carcass could I find of these animals that had perished from the effects of the dreadful winter. Then there came to me the many vows I had made when seeing the buffalo die in agony while hunting them—that if the race was ever in danger of extinction I would capture, domesticate and produce if possible as many as I had slain;



PERSIAN-NATIVE SHEEP CROSS.

to no discomfort to the padded head, securing food regardless of the depth of the snow or severity of the weather. In fact, this sort of bucking at the sharp crusted snow in former years had lacerated the head and caused the long hair to grow thereon. It was the same with the front legs. They had been cut and mangled, causing the great "chaps" on them. The hind legs always had protection afforded by nature, and the long hair never appeared on them.

The great hump on the shoulders was a storehouse or lump of animal life. No buffalo ever perishes with hunger or thirst until the hump is absorbed, which takes weeks to accomplish. Their fourteen ribs on each

and here was the best opportunity to fulfil my vows and atone for all my meanness.

Realizing the good qualities of this noble beast, I reasoned to myself: "Why not engraft this hardy scion into domestic cattle and have an animal fit to utilize the 700 million acres of public domain then useless for domestic stock?"

I lost no time, but rode straight home to Garden City, gathered my fastest horses and strongest mules to haul supplies, and for four consecutive years I journeyed to the Staked Plains of Texas and gathered in the little calves. Altogether I saved fifty-eight buffalo, and when I realize that there are now more than 1,600 of the animals happy and con-

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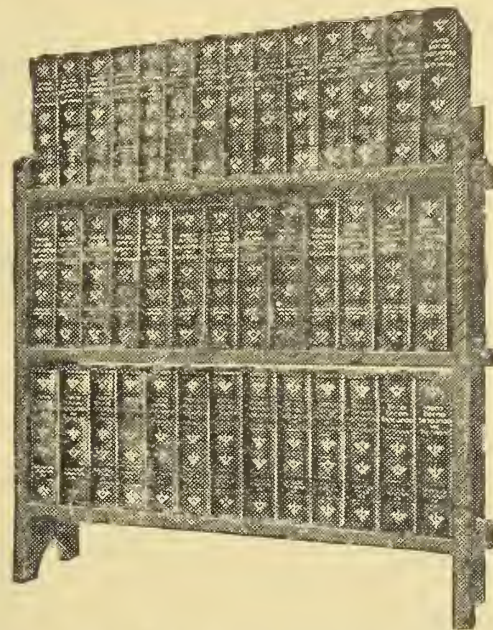
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We want to show you that through our Co-Operative plan we are saving thousands of dollars every year to farmers and dealers everywhere.

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tented in captivity, all originated from the captives from the plains, and that I have further secured the new animal, the type of which was impressed upon my mind, and which at that time gave me but faint hope, my heart rejoices.

This new hybrid I named "cattalo." It possesses all the good qualities of the buffalo and few of the bad ones. Cattalo are proving better and better each year. Their robes are of greater value, especially when the black strain of cattle are in their veins. Their meat is a luxury and commands excellent prices. After I had produced the cattalo, I longed for other worlds to conquer. I had seen the Persian sheep in shows. Their great hump attracted my attention. I realized it was there for some purpose the same as the hump of the buffalo and camel. I secured a start of these animals and hybridized with our native sheep. They proved all and more than I had hoped for.

I have three distinct races of these sheep. I have named them the Persiarino, Persia-shire and Persiacotts. The suffixes are apparent. They come from the formation of the new word, Persian, and Merino, Shropshire and Cotshire. I have full confidence that the Persiarinos will soon become the standard sheep of America. Their mutton is the most delicious ever eaten. At least President Roosevelt so claimed when he was in office. Persiarino sheep are fully 50 per cent larger than the Merino. They are so hardy no shelter is required for them. The lambs drop in zero weather on the snow without shelter and are up in less than thirty seconds, not appearing to mind the rigors of winter. The wool has a better staple than Merino, though not so fine. It classes as "medium combine" and brings the highest prices. The wool grows rapidly. I shear the sheep twice a year, and have cut twelve pounds from a yearling in the spring when the last shearing was only October previous.

I have a new goat also that gives much promise. It is one-quarter goat, one-quarter Merino sheep and one-half Persian sheep. This is called "Gorsian," made up of the words goat, Merino and Persian. Think of a goat yielding a good clip of wool and so hardy he can live on cactus, sagebrush and greasewood, at the same time producing the choicest meat with the flavor of game. Why not turn the pages of history backward and start anew, when such wonderful results are secured, destined to be the salvation of mankind?

GUTHRIE'S PUBLIC SALE.

Mr. A. T. Guthrie held a public sale of English Shire and Percheron horses, Short-horn cattle and Shropshire sheep, at Newton, Iowa, on January 20th. In most particulars the sale was a very successful one. A detailed report is as follows:

PERCHERON MARES.

Fauvette, five years, Damier, James Verphoeg, Pella, Iowa\$525.00
Vercuse, five years, Fringant, same 525.00
Pearl, two years, Pride 395.00
Isadora, eight years 395.00
Rosale, four years, Joubert, Harry Livingston, Monroe, Iowa 605.00
Newton Topsy, four years, Percheron Rex, A. F. Ramthum, Rockwell City, Iowa 390.00
Newton Bessie, three years, Favori, same 250.00

SHIRE HORSES.

Newton Flirt, six years, Brampton Harold, R. J. Paul, Gilman, Iowa 415.00
Newton Trinket, six years, Imp. Brampton Harold 310.00
Newton Myrtle, three years, Brampton Harold, H. H. Peck, Wyoming, Iowa 300.00
Newton Ruth, five years, Brampton Harold, Shaw Bros., Mitchellville, Iowa 400.00
Newton Katherine, six years, Cannonock Don, Andrew Stewart, Rockwell City, Iowa 200.00

STALLION.

Brampton Hero, three years, Keota Lord, Wm. Crawford, Newton, Ia. 400.00

CATTLE.

Lily of the Valley, seven years, Barmpton Royal, Geo. Kelley, Newton, Iowa 122.50
Butterfly Lad, two years, Silver Star, L. W. France, Reasnor, Iowa 65.00
Snow Flake, three years, Silver Star, H. D. Parsons, Newton, Iowa 47.50
Roan Dainty, five years, Commodore Hero, Wm. McMurray, Newton, Ia. 62.50
El Rey, two years, Oscar, Will Carrier, Newton, Iowa 155.00
Rosegirl, two years, Oscar, H. D. Parsons 40.00

SCOTCH-TOPPED CATTLE.

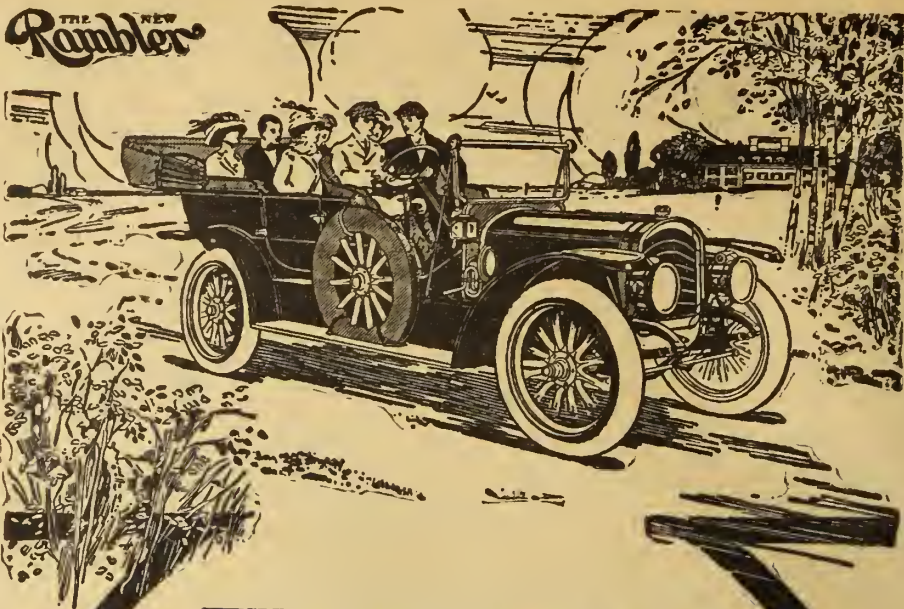
Priscilla, two years, Baron Gloster 6th. S. J. Jensma, Newton, Iowa 30.00
Lucinda 2d, two years, Emperor Lad, H. D. Parsons 45.00
Gertie, two years, Baron Gloster, Wm. McMurray 32.50
Lucinda, four years, Gold Band, H. D. Parsons 47.50
Cornelia, six years, Iowa Champion, Roy McMurray, Newton, Iowa 55.00
Golden Duke, one year, Emperor Lad, F. H. Russell, Newton, Iowa 22.50
Julia 2d, three years, White Star, H. D. Parsons 40.00
Snow Ball, one year, White Star, Roy McMurray 30.00
Bessie, four years, Emperor's Lad, Geo. Dunbar 50.00
Mayflower 3d, two years, White Star, Wm. McMurray, Newton, Iowa 32.50
Miss Myrtle, two years, Rosamond 5th, G. W. Dunbar, Redfield, Iowa 37.50

BULL.

Duke, three years, Gloster Orange Lad, C. Moberly, Newton, Iowa 40.00
The sheep were disposed of at from \$15 to \$22 per head.

BENNETHUM'S DUROC SALE.

One of the best offerings of Duroc Jerseys that has been sold at public auction this season was that owned by Mr. W. R. Bennethum, of Madrid, Iowa, on Tuesday, February 2d. The crowd was not large and the offering in many instances was not appreciated. John Litzen, of Dayton, Iowa, topped the



THE new Rambler, because of its quiet ease of motion, reserve power, and dignity of comfort, affords to the busy man pleasing relaxation and healthful recreation with family or friends at the end of the day. For satisfactory operation in crowded city traffic, on boulevard, or country road the new Rambler, because of the offset crank-shaft, is capable of three or sixty miles an hour, on high speed, climbing any hill with gratifying ease.

The Spare Wheel obviates tire trouble. With straight-line drive, big wheels and tires, and new expanding clutch the new Rambler is superior to all in efficiency and better than any in quality, silence, and comfort.

Rambler automobiles, \$1,800 to \$2,500

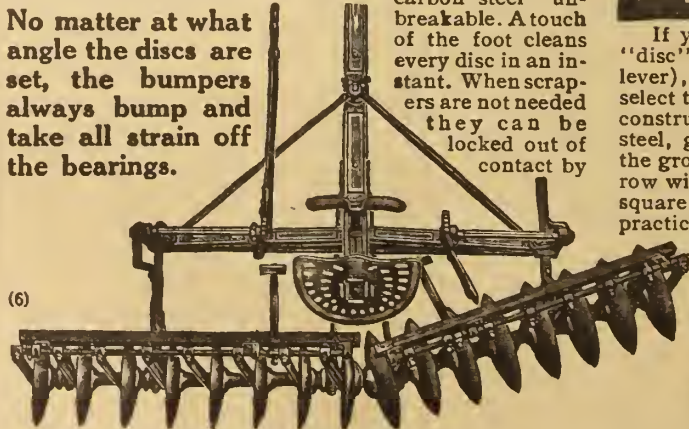
Thomas B. Jeffery & Company
Main Office and Factory: Kenosha, Wis.
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The Bumpers Always Bump

on Rock Island Disc Harrows — no matter whether you prefer the single or double lever rig. This means no sidetrain or end thrust on the bearings, no matter how deep the discs are set to work. One gang works against the other and the friction-proof ball bumper takes all the strain. That's why Rock Island Disc Harrows never get warped or twisted out of shape, why the draft is so easy and why the bearings remain good as new for years and years after any other Disc Harrow on the market has worn, twisted and racked itself into a mess of junk. And it's a good reason why no farmer is ever satisfied with anything but a Rock Island Disc after he has tried one or seen it work.

There are other patented features just as important, which mean just as much to a farmer in extra efficiency and wonderful durability. The scraper blades are of high carbon steel — unbreakable. A touch of the foot cleans every disc in an instant. When scrapers are not needed they can be locked out of contact by

No matter at what angle the discs are set, the bumpers always bump and take all strain off the bearings.



foot levers within easy reach. On most Disc Harrows the scrapers are always in contact — bind somewhere all the time. It's mighty hard on the team — like dragging a wagon with the wheels chained.

There are a lot of other points just as important which we can't tell you here, all of which taken together make Rock Island Disc Harrows the best, longest lived, most efficient and easiest to operate of any harrow made, irrespective of price, as can easily be proved by the testimony of more than 100,000 farmers who have tried all kinds and settled down to the good old reliable

Rock Island DISC HARROWS
DEFIANCE Single Lever
BONANZA Double Lever

If you want a harrow where one gang can be given more "disc" than the other you should select the Bonanza (double lever), or if you prefer to have the gangs always at the same angle, select the Defiance (single lever). Aside from these differences the construction is the same. Rock Island Discs are high grade coulters steel, ground, sharpened and polished and guaranteed to enter the ground by their own suction. No need to weight down harrow with rocks. Axles or head pins are heavy and strong — 3/4 in. square instead of 1/2 in. Bearings are hard maple, boiled in oil, practically dust proof and self-clearing. They should never need renewing. More Rock Island Disc Harrows are sold than of any other two makes on the market.

Before you decide on a Disc Harrow, see the Rock Island at your dealer's and make comparisons. We'll leave the decision to your own good judgment; or ask for catalog and nearest dealer's name.

ROCK ISLAND PLOW COMPANY
Rock Island, Ill.

sale, securing a splendid daughter of Golden Model, bred to Advancer 1st, at \$62. Col. C. E. Luther, of Paton, Iowa, secured a bargain in the yearling sow, Goldie, bred to Golden Model, at \$62. Sows bred to Golden Model were in good demand and those sired by him or his sons were of the type which should be found in every Duroc herd. Col. H. C. Duncan conducted the sale in his usual excellent manner and was ably assisted in the ring by Col. C. E. Luther. A list of sales follows:

Lot.	Price.
1. O. R. Stevens, Rippey, Iowa.....	\$56

2. B. C. Marts, Polk City, Iowa.....	45
3. D. C. Baker, Sutherland, Iowa.....	44
4. B. C. Marts.....	55
5. Ernest Petticoard, Perry, Iowa.....	60
6. F. B. Butterfield, Ankeny, Iowa.....	51
7. John Goddard, Harlan, Iowa.....	59
8. John Litzen, Dayton, Iowa.....	62
9. C. E. Luther, Paton, Iowa.....	62
10. Geo. T. White, Dallas Center, Iowa.....	58
11. A. B. Duncan, Blockton, Iowa.....	50
12. C. M. Stout, Rose Hill, Iowa.....	45
13. W. P. Graves, Madrid, Iowa.....	35
14. Geo. T. White.....	55
15. M. C. Cramer, Monroe, Iowa.....	34

18. G. H. Cain, Granger, Iowa.....	48
20. John Litzen.....	29
21. Lee Drake, Sutherland, Iowa.....	36
22. Geo. T. White.....	33
23. Same.....	33
24. W. P. Graves.....	31
26. Delbert Warden, Madrid, Iowa.....	27
27. J. W. Hunt, Madrid, Iowa.....	25
29. C. A. Rasmussen, Harlan, Iowa.....	30
30. John Litzen.....	34
31. John A. Schmidt, Rock Valley, Iowa.....	27

SUMMARY.

28 head\$1,124; average.....\$40.14



They Fuss.

When Bobby comes home at first from the college
With his head fairly swimming with football knowledge,
When papa comes home with his old working clothes,
His hair tousled up and smut on his nose,
Bobby fusses.

When Bobby goes back and pretty soon "hol-
lers,"
For a check of from three to five hundred dollars,
And the old man is working with fervor un-
daunted
To get it, and send it to Bob when it's
wanted,
Then papa fusses.

When Bobby writes home how he's making
a hustle,
How work in the "first half" develops the
muscle,
Then mama gets busy and tells of her fears
That Bobby will study too hard for his years,
Then mama fusses.

But when the day comes for Bob's graduation,
Both papa and mama are filled with elation;
The loss of an arm or two legs that's mis-
dated
Don't count after all, for "our Bob's" grad-
uated,
And they stop fussing.

Grafting.

Some highly-educated young physi-
cians have succeeded marvelously re-
cently in experimental surgery in
bone grafting on different animals.
A leg was successfully removed from
a dog and grafted on another, and a
liver taken from one dog was grafted
to another.

It seems that any organ can be suc-
cessfully substituted. The latest was
at the suggestion of a farmer's wife.
They removed the crow from a roost-
er and grafted it to the vocal organs
of the hired man. It was a complete
success. Just as soon as it becomes
light in the east the hired man crows
and wakes himself, also wakes the
hired girl and the rest of the family,
but the good wife conceived the no-
tion that the same operation would be
beneficial to her husband also, and
persuaded him to consent to the ex-
periment. This is where she made a
great mistake. Regularly at daylight
he crows in unison with the hired
man, but missing his accustomed
morning nap left him very sleepy, and
finally when he did sleep it was so

GET POWER

The Supply Comes From Food.

If we get power from food, why not
strive to get all the power we can.
That is only possible by use of skil-
fully selected food that exactly fits the
requirements of the body.

Poor fuel makes a poor fire and a
poor fire is not a good steam producer.
"From not knowing how to select the
right food to fit my needs, I suffered
grievously for a long time from stom-
ach troubles," writes a lady from a
little town in Missouri.

"It seemed as if I would never be
able to find out the sort of food that
was best for me. Hardly anything that
I could eat would stay on my stomach.
Every attempt gave me heart-burn and
filled my stomach with gas. I got
thinner and thinner until I literally
became a living skeleton and in time
was compelled to keep to my bed.

"A few months ago I was persuaded
to try Grape-Nuts food, and it had such
good effect from the very beginning
that I have kept up its use ever since.
I was surprised at the ease with which
I digested it. It proved to be just what
I needed.

"All my unpleasant symptoms, the
heart-burn, the inflated feeling which
gave me so much pain disappeared. My
weight gradually increased from nine-
ty-eight to 116 pounds, my figure round-
ed out, my strength came back, and I
am now able to do my housework and
enjoy it. Grape-Nuts did it."

A ten days' trial will show anyone
some facts about food.

Look in packages for the little book,
"The Road to Wellville." "There's a
Reason."

Ever read the above letter? A new
one appears from time to time. They
are genuine, true, and full of human
interest.

profoundly that he snored terribly, and
as the crow had been grafted on the
upper part of the windpipe the snore
turned into a crow and he crows the
entire night so that no one could
sleep.

The climax came at the Thursday
evening prayer meeting. His good
wife had warned him of his danger
and had jogged him every time he be-
gan to nod, but tired nature rebelled
and the old gentleman sank into a
peaceful slumber. During the monotonous
recital of the experience of a
good brother, he took a long breath
which developed into a victorious and
vociferous crow, startled the entire
congregation, and, despite the shak-
ing of the good wife, the crowing kept
up until the ushers finally succeeded
in awakening him by pounding him
over the head with the contribution
baskets. It has resulted in diminish-
ing his ardor and has weakened his
church relations.

The doctors say they cannot restore
the original pristine snore, but they
think they can graft on the chirp of
the bobolink so that the two will
mingle and ameliorate the crow to a
certain extent and blend it with the
chirp.

The crow is really an improvement
on the snore, and, united with the
trill of the bobolink, the old man may
develop into a musical prodigy that
will be a valuable acquisition to the
church choir and an astonisher in
musical circles. The congregation is
delighted with the project, whether it
succeeds or not, as that snore has be-
come so monotonous that it fails to ex-
cite either comment or attention any
more.

The possibilities of this newly ac-
quired art are simply of untold value
from an agricultural standpoint. The
ear-piercing squeal of the pig can be
superseded by the bleat of the inno-
cent lamb, and a coarse-voiced old
bachelor could have the coo of the
dove grafted to his vocal organs, giv-
ing them such a persuasive, insinuat-
ing and pleasing inflection that the
old maids would be delighted and en-
tranced as though charmed by the
trills of a bird of the wildwood.

Great is the human brain and start-
ling its discoveries when employed
in investigating the dim corridors and
aisles of nature in scientific ramifica-
tion and research.

The Virtues of Oleo.

Oleomargarine melts at a temper-
ature of 106, butter at 92 and the hu-
man temperature is 98; therefore
pitching a hunk of oleo into the hu-
man stomach, expecting it to melt,
is like firing a snowball into a ice-
cream freezer. It makes a man feel
as though he had swallowed a frozen
doughnut and he will have to shovel
a mile of sidewalk piled seven feet
high with snow in order to thaw out
that hunk of frozen blubber.

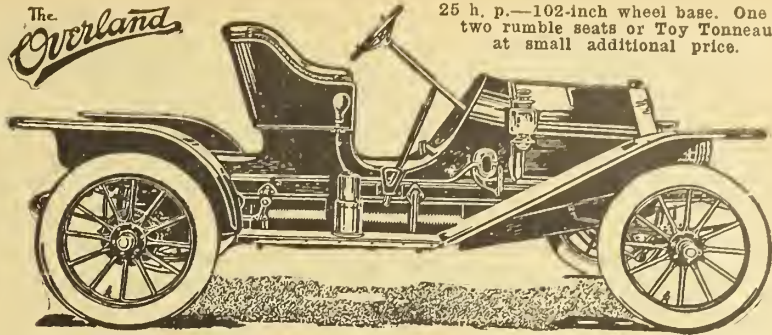
The best way to take oleomargarine
is to melt it and take it through a tin
horn. Pour it in slowly with a dip-
per, having eaten your bread first.
Don't eat butter with it; it is too ex-
pensive; besides it will freeze the oleo
and make you feel as though you were
packed with young icicles.

Don't eat oleo before shaving. It
starts the goose pimples and you will
shave them off, making you look as
though the woodpeckers had been
testing you for pinworms.

Oleo looks all right, but tastes as
though it were made from a defunct
hyena. It is against the law to color
it in imitation of butter, but you can
if you like, when it is on your own
table, paint it a pale lavender tint
and embellish it with sky-blue daffo-
dils. This will make it look like si-
lage and improve its flavor.

When the delivery boy brings in a
piece of butter the size of a walnut
for fifty cents, it will tend to raise
your temperature more on a level with
oleo and also make oleo taste more
like butter than it otherwise would.

The Overland



This Car for \$1,000

This is how an enormous output has cut the cost of Overlands 20 per cent.

In our largest factory—once the great
Pope-Toledo plant—we are turning out eighty
Overland Models No. 38 per day.

We are making under one roof nearly every
part of the car. And every machine in the
factory is adapted to this particular model.

In this way we are saving about 20 per
cent. We are giving for \$1,000 a better car
than the Overland which last year sold for
\$1,250.

Yet last year we gave more than anyone
else ever attempted to give for the money.

None Can Compete

It is so with all Overland models—with
our \$1,250, \$1,400 and \$1,500 cars. Each
is the utmost at its price.

All prices include Magneto and full lamp
equipment.

Our four factories must this year make
\$24,000,000 worth of Overland cars to fill
orders already placed.

This enormous output—this specialization
—places Overland cars beyond all compe-
tition. To sell equal cars at the Overland
prices would ruin a smaller maker.

Simplicity

The demand for Overland automobiles has
multiplied 500 times over in the past two
years. It has made our sales the largest in
the world.

The reason lies in the Overland's match-
less simplicity. A 10-year-old child can
master the car in five minutes.

Never was a car so easy to operate—so
easy to keep in order. That is why one car
has sold others, and the others sold others,
until we today employ 4,000 men to meet
the demand for Overlands.

A Wonderful Story

Here is a car so amazingly simple—so
handsome, so powerful, so cheap—that in two
years it has captured a large part of the
whole automobile trade. Neither in the city
nor country is there a car that sells like it.

This sensational success forms a fascinat-
ing story, and we have told it all in a book.
You cannot know the best about automobiles
till you read it. Please send us this coupon
today for it.

F. A. Barker, Sales Manager,
The Willys-Overland Co.
Toledo, Ohio

Please mail me the book.

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TRY IT 30 DAYS AT OUR RISK

Benedict's Improved JUMBO Wire Stretcher and Safety Hoist

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The most useful device on the farm. THE HARDER THE PULL THE BETTER THE GRIP. A perfect hoist for light work. Double strength. Equipped with patent adjustable lock for various sized ropes—the only hoist made operating with one rope entirely. Movement to right or left engages or disengages the load. Heavy chains of extra length for use on large corner posts. Wire clutches for various sized ropes. Provided with one-half inch pure Manila rope. Look for the trade mark. Write today for our Clincher Free Trial Offer.

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Then, if you want to keep it, pay me my bedrock, factory price—on easy terms. I think you'll want it for keeps when you know how fast it makes money by giving you clean, graded seed to plant and sell. One means full crops—necessary when land is so high; the other means top prices when you sell. **MY FREE BOOK, No. 124**, will tell you all about it. Send your name and address, now, so I can make you my remarkable offer. Ask for Book No. 124. Use nearest address.

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When an engine that would saw wood, grind feed and do general farm work, weighed a ton and had a water tank like a young straw stack. Think of carting water by the barrel whenever power is needed.

Then The "New-Way" AIR-COOLED

No more water nuisance, no cold weather troubles; always ready and able to do any work, summer or winter. That's the kind you want. Write us for catalog No. S. The only air-cooled engine guaranteed for all work.

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THE "New-Way" MOTOR COMPANY
LANSING, MICHIGAN, U.S.A.

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THE BRAND

15 Ash Street



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Largest producers of asphalt, and largest manufacturers of ready roofing in the world.

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Trinidad Lake Asphalt
Asphalt-saturated Wool Felt
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End your drudgery. Get a set of **EMPIRE STEEL WHEELS** to use when hauling. You can change from wooden to steel wheels in 5 minutes. Empire Steel Wheels cost only one-half the price of wooden wheels. They double the life of your wooden wheels. They save time and repair expense. They save your team. Send for now free catalog of Empire Wheels and the famous Empire line of Handy Wagons.

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When writing please mention this paper.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

FENCE VIEWERS' ORDER.

A Subscriber, Hendley, Neb.—Two land owners divided the partition fence between their farms by mutual agreement. Each one built his half of the fence and it remained a partition fence for four years or more. Then one of the parties set his part of the fence back on his own land four feet from the line. The other party keeps a good fence on his half of the line. Can he compel the other to put his part of the fence back on the line?

Answer.—This is a proper matter for the fence viewers to decide. The law gives them authority to determine all such controversies. The party who keeps the good fence should choose one fence viewer and notify the other party in writing to choose the other, and if this be not done in eight days, the first party may choose the second fence viewer. The fence viewers then meet, and view the premises, hear witnesses, if necessary, and decide the matter by a written order, which is filed in the county clerk's office, and binds both parties. The fence viewers would no doubt compel the party who has moved his fence to put it back on the line.

FREE DELIVERY SYSTEM.

A Subscriber, West Liberty, Iowa.—Where can I obtain the rules of the United States Postal Department concerning rural mail carriers and patrons, and in reference to roads, routes and the service in bad weather?

Answer.—For information concerning rural mail carriers, write to general superintendent free delivery system, postoffice department, Washington, D. C., and for information as to rules about roads, routes, and service, write first assistant postmaster-general, Washington, D. C.

SETTING ASIDE A DEED.

A Subscriber, Rome, Iowa.—A lived in Iowa and owned land there. He had two sons, B and C. A deeded a piece of land to B without C's knowledge of it, but the deed was recorded the same day and then C became aware of the transaction. B began to improve the land at once and kept taxes paid up, and lived on it for eight years, holding undisputed possession. A died seven years after he made the deed to B. C has now brought suit against B to have the deed set aside on the ground that A was of unsound mind when he made it. Can the deed be set aside?

Answer.—If it can be proven in court that A was of unsound mind when he made the deed, it can be set aside. The fact, however, that C knew of the transaction very soon after the making of the deed, and let the matter drift along for years without objection, permitting B to improve the land as his own without question, saying nothing of A's unsoundness till recently, is a strong circumstance tending to show that the charge of A's unsoundness is trumped up, and is likely to result in C losing his case.

PAYMENT BY SURETY.

Mr. L. F. Zeller, Oxford Junction, Iowa.—(1) When a principal and surety give a promissory note and afterwards the surety is made to pay it, under what conditions can the surety hold the obligation against the principal? (2) How does the statute of limitations operate as to the surety against the principal in such cases?

Answer.—(1) The surety can recover the amount he has paid with legal interest thereon, from the principal, by an ordinary action at law, at any time before the claim is barred by the statute of limitations. The single fact that the surety has paid the note, is the only condition necessary to enable him to recover the amount of his payment and interest. (2) The surety must bring suit against the principal within five years after payment of the note by the surety, or his claim will be outlawed.

DRAINING UNDER RAILWAY.

A Subscriber, Sioux Rapids, Iowa.—A wishes to drain a tract of land. In order to do so he will have to cross a railroad right of way. Under the Iowa drainage laws can he compel the railroad company to put in a tile across its right of way and for some distance along the side of its track, that being the present course in which the water runs?

Answer.—A cannot compel the company to put in any tile at its own expense. The cost of the drain must be

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There is no other one thing that causes you so much trouble as rats. It's money in your pocket to make your floors, cribs and barns rat proof—make them of Chicago "AA" Portland Cement.

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Don't wait until your building has been struck by lightning and all in flames before you think of a lightning rod. Be safe and have your buildings all rodged with Hawkeye 98 per cent Pure Copper Cable Lightning Rods.

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You can't tell where lightning will strike next. No one knows. Nearly every day in the spring and summer you read of some terrible loss of life and property by lightning. You may be next. There is no choice—it's a serious question and no one can afford to carry his own risk when absolute protection may be had for a small investment.

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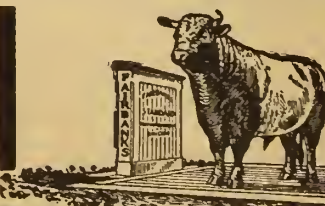
Our Guarantee is Bonded

Where buildings are rodged with the Hawkeye Copper Cable Lightning Rods in conformity to our system we issue a guarantee that such buildings will not be struck by lightning. We are bonded by the Citizens' Savings Bank, of Riverside, Iowa, which guarantees payment of the above guarantee with interest at the rate of six per cent from the time of such payment.

Ask The Agent in Your Town

He will show you why Hawkeye Lightning Rods are best. If we have no agent in your town write us at once. We will make you a splendid proposition. Write today for booklet A.

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every year by guessing weights. Think of it—enough money wasted on most farms in twenty years to pay for the land. No wonder some farmers don't get ahead as fast as they should when they are being held down by such a loss, and yet the remedy is simple and sure, and within reach of every farmer.

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HITCH them to a Disc Harrow that wont worry the life out of them with a pounding tongue. I want to send you a Monmouth Tongueless Disc Harrow to try on your land free, for 30 days, and I'll even pay the freight. The

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has absolutely No Neck Weight, No Side Draft; and it turns around as easy as a Plow. It has Adjustable Scrapers, Hard Maple Bearings, Long Oil Tubes, Weight Boxes and Double Levers. Transport Trucks for going on road, if you want them. Let me quote you our low, factory price, direct to you and send complete Catalog of Harrows, Plows, Cultivators, etc. Send me your name and address today. The Plow Man, with

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The all the year round best beverage for all classes, ages and sexes. Delicious — Wholesome Thirst-Quenching 3c Everywhere

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Send us 2c for postage and we will send you our beautiful 1910 Coca Cola Girl Calendar and our interesting booklet "The Truth About Coca-Cola". Tells all about Coca-Cola—what it is and why it is so delicious, wholesome and beneficial. It gives analyses made by scientists and chemists from coast to coast, proving its purity and wholesomeness. Your name and address on a postal will bring you the booklet by itself.

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You can't run a farm engine profitably on gasoline much longer. Price of gasoline going sky high. Oil Companies have sounded the warning. Kerosene is the future fuel and is now 8c to 10c a gallon cheaper than gasoline. The Amazing "Detroit" is the only engine that uses common lamp kerosene (coal oil) perfectly. Runs on gasoline, too, better than any other. Basic patent. Only 8 moving parts. Comes complete ready to run. We will send a "Detroit" on free trial to prove all claims. Runs all kinds of farm machinery, pumps, saw rigs, separators, churns, feed grinders, washing machines, Silo fillers and electric lights. Money back and freight paid both ways if it does not meet every claim that we have made for it. Don't buy till you get our free catalog. 2 to 24 h. p. in stock. Prices \$29.50 up. Special demonstrator agency price on first outfit sold in each community. 2000 satisfied users. We have a stack of testimonials. Write quick. (20)

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COMPLETE AND READY TO START.


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develop the full rated horse power and more. Guaranteed for five years and ninety days' approval. Best and simplest engine made. Just the engine for the farm. Runs cream separators, churns, pumps, feed mills, corn shellers, washing machines, wood saws, drilling, etc. We will refund your money and freight charges if our engine does not please you in every way. Write for our free catalog and see the money we can save you.

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COOK YOUR FEED and SAVE Half the Cost—with the PROFIT FARM BOILER

With Dumping Caldron. Empties its kettle in one minute. The simplest and best arrangement for cooking food for stock. Also makes Dairy and Laundry Stoves, Water and Steam Jacket Kettles, Hog Scalders, Caldrons, etc. Send for particulars and ask for circular P. D. R. S. Eddy & Co., Batavia, Ill.

borne entirely by A. If he and the railroad company cannot agree about it A will have to file an application to cross the right of way, with the township clerk, and then the trustees will after notice to the railroad company, meet and assess damages, if any, for the railroad company, and fix the cost of constructing the drain across the right of way, and then the railroad company may construct the drain if it chooses to do so, and A must pay the cost of it, and whatever damages the trustees have assessed in favor of the railroad company. If the railroad company does not construct such drain across its right of way, A may do so at his own expense, but he must in either case pay the damages fixed by the trustees.

SNOW ON SIDEWALK—TENANT'S DUTY.
A Subscriber, Colfax, Iowa.—I own a house and lot in town and it is occupied by a tenant. Whose duty is it to keep snow cleaned off of the sidewalk in front of the lot, mine or the tenant's?

Answer.—It is the duty of the tenant to keep the snow cleaned from the sidewalk.

TAXATION OF LAND AND NOTES.
A Subscriber, Eagle Grove, Iowa.—In November, 1909, A sold his farm to B on time, B giving his promissory notes for the value of the farm, due in one and two years, possession of the farm to be given to B on March 1, 1910. (1) Who should pay the taxes on the farm for the year 1909? (2) Must A list the notes with the assessor for taxation in 1910?

Answer.—(1) B should pay the taxes for 1909. (2) The law requires A to list his notes for taxation in 1910.

QUESTION FOR FENCE VIEWERS.
A Subscriber, Norwalk, Iowa.—My neighbor and I have adjoining hog pastures. The hog fence between all belongs to me. Have I a right to take my fence from my neighbor's half of the line?

Answer.—We infer from this statement that there was an ordinary partition fence between your lands, but not hog tight, and that you added material to it so as to make the whole fence hog tight, both your part of the line, and your neighbor's part. Under the old law you had a right to remove the added material whenever you chose to do so, but that law was repealed by the last general assembly, and the new law makes no provision for removing any portion of a partition fence. We think the matter ought to be submitted to the fence viewers for their decision.

TAXATION—GOOSE-TIGHT FENCE.
A Subscriber, Schleswig, Iowa.—(1) If I ship a car load of live stock on the first day of January am I required by law to list the same for taxation in that year? (2) If an estray animal dies on my land is the local board of health required to bury or remove it? (3) A and B have a hog-tight partition fence between their farms. There is a ditch and running water crosses under B's part of the fence and A's geese go through upon B's land. Can A compel B to make the fence goose tight?

Answer.—(1) Whoever was the owner of the live stock on the first day of January is the person who should list it for taxation. (2) The local board of health is not required by law to bury or remove such an animal. (3) A cannot compel B to make the fence goose tight. A must take care of his own geese.

CROPPER'S RIGHTS.
A Subscriber, Tracy, Iowa.—A rented a part of his premises to B by the month, at \$5 per month, from March 1 to October 1, 1909, no farm ground included. Later A rented thirty-five acres of sod ground to B to be put in corn on shares. On October 1st A needed the part of the premises first mentioned and gave B notice to vacate the same, which was done. A now needs his share of the corn crop, but B refuses to husk it as he was bound by their contract (which was verbal) to do. (1) Can A husk the corn at B's expense, and hold B's share till the work is paid for? (2) Can B hold the ground after March 1, 1910?

Answer.—(1) He cannot husk the corn at B's expense and hold it as security for such work, but he can recover damages from B for breach of contract, and hold B's share of the corn till the rent corn is delivered to him. (2) B cannot hold the ground after the 1st of March, 1910. Indeed he had no lawful right to hold it after the 1st of December, 1909, as he was a mere cropper, whose time expired on that day by law.

A few years ago we drove into a neighbor's yard and saw the hens reluctantly drinking from a trough. They acted as if they were very dry, but still didn't want to drink the only stuff set before them to drink. Investigation showed the water blood-red with Venetian red. A little of it may be good, but it is dope that may be overdosed.



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It was the only car which carried no extra parts.

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has proved, time and again, in the hands of its owners that there is not a car on the market that will give you the service and satisfaction at anywhere near the modest cost of a Moline.

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References:
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GOODENOUGH'S GREAT HAMPSHIRE SALE.

The greatest sale of Hampshire swine ever held in America was at the farm of Mr. A. L. Goodenough, at Morrison, Ill., on January 29th. The breeders bought the entire fifty-one head with three exceptions. Breeders were present from Texas, Iowa, Nebraska, Missouri, Illinois, Indiana, Ohio and Wisconsin. A number of breeders, after looking over the sows in the herd, frankly said that Mr. Goodenough has the best collection of Hampshires of any man in America. Mr. W. J. Brinigar secured the top sow, Maude, at \$185. Mr. H. D. Dekalb was the largest individual buyer. Colonels Reppert and Igleheart did excellent work in selling the hogs. Below we give list of buyers and prices paid:

Lot.	Price.
1. W. J. Brinigar, Blythedale, Mo.	\$185.00
2. L. E. Wright, Dunlap, Iowa	90.00
3. Flowerdale Farm, Dallas, Tex.	75.00
4. Chas. Rick, Morrison, Ill.	60.00
5. W. B. Merriman, Dixon, Ill.	45.00
6. H. D. Dekalb, Dekalb, Ill.	110.00
7. John Curran, Bernard, Iowa	40.00
8. Same	52.50
9. Thornbur & Craig, McCall, Ill.	52.00
10. Willie Essig, Tipton, Ind.	60.00
11. E. C. Stone, Armstrong, Ill.	37.00
13. Frank Rick, Morrison, Ill.	60.00
14. H. T. Adams, Mt. Sterling, Ill.	37.00
15. A. A. Bersie, Decorah, Iowa	43.00
16. H. D. Kekalb	65.00
17. Same	102.50
18. L. C. Miller & Son, Canton, Ill.	75.00
19. H. D. Dekalb	110.00
20. Same	40.00
21. D. H. Boynton, Bryan, Ohio	49.00
22. W. E. McClellan, Clarence, Iowa	58.00
23. Thornbur & Craig	49.00
24. L. E. Wright	55.00
25. T. S. Preston, Mendota, Ill.	39.00
26. H. D. Dekalb	60.00
27. T. S. Preston	50.00
28. F. E. West, Darlington, Wis.	31.00
29. L. E. Wright	40.00
30. E. C. Stone	49.00
31. P. Honodel, Chadwick, Ill.	33.50
32. John Mayhew, Aledo, Ill.	47.00
33. Symon Mathews, Morrison, Ill.	41.00
34. Pifer Bros., Palestine, Ill.	50.00
35. Willie Essig	60.00
36. Symon Mathews	32.00
37. John Mayhew	38.00
38. A. A. Bersie	30.00
39. Willie Essig	50.00
41. E. C. Stone	49.00
42. R. S. Kinness, Lanark, Ill.	51.00
43. Pifer Bros.	60.00
44. Chas. E. Davis, Radnor, Ohio	57.50
45. John Mayhew	38.00
47. W. B. Merriman	43.00
48. Flowerdale Farm	60.00
49. Thornbur & Craig	49.00
52. E. C. Stone	50.00
53. Symon Mathews	45.00
Extra. Robt. Runkle, Littletown, Ill.	44.00
Extra. H. D. Dekalb	80.00
Extra. W. J. Brinigar	50.00

SUMMARY.

51 head\$2,885; average....\$56.56

MOSSMAN'S DUROC SALE.

The postponed Duroc sale of Messrs. A. L. Mossman & Son was held at Radcliffe, Iowa, on Monday, January 24th. The offering was a superior one in every respect and should have brought more money. Mr. Ernest Maxson, of Hampton, Iowa, topped the sale, securing a splendid daughter of Colonel's Prince at \$72.50. Messrs. O. T. Balmat, Edwin Hummer, Chas. Beerman, Phillip Knowles were among the best bidders and buyers of better sorts. Cols. H. L. Igleheart and O. L. Mossman conducted the sale in a satisfactory manner. List of sales follows:

Lot.	Price.
7. Phillip Knowles, Eldora, Iowa	\$41.00
8. O. T. Balmat, Mason City, Iowa	42.00
9. Same	45.00
12. Will Drackley, Radcliffe, Iowa	35.00
15. C. E. Veak, Essex, Iowa	40.00
16 1/2. A. J. Hugman, Story City, Iowa	34.00
18. Chas. Beerman, Webster City, Ia.	30.00
19. Chris Risse, Hubbard, Iowa	38.00
20. A. P. Canser, Radcliffe, Iowa	35.00
21. A. I. Conklin, Radcliffe, Iowa	33.00
22. Ernest Maxon, Hampton, Iowa	48.00
23. Chas. Beerman	38.00
24. A. P. Canser, Zeoring, Iowa	40.00
25. Chas. Beerman	48.00
26. O. T. Balmat	50.00
27. Same	46.00
28. F. B. Butterfield, Ankeny, Iowa	44.00
29. Ernest Maxon	72.50
30. Phillip Knowles	33.00
31. I. P. Stratton, Oblong, Ill.	46.00
32. Edwin Hummer, Iowa City, Iowa	38.00
35. Same	36.00
36. Phillip Knowles	35.00
37. Ernest Maxon	54.00
38. Chris Risse	34.00
39. O. T. Balmat	52.50

SUMMARY.

26 head\$1,088; average....\$41.84

WINTERMUTE'S POLAND CHINA SALE.

Mr. J. H. Wintermute, of Blockton, Iowa, held a very good sale of Poland China brood sows on the 25th of January. While no extreme prices were received, a healthy level was maintained throughout. An average of better than \$43 per head was secured on the entire offering. A list of sales is as follows:

Darkness 3d February, 1906, J. A. Stephenson, Mt. Ayr, Iowa.....\$110

Lady Tecumseh, September, 1907, J. M. Coleman, Wayne, Neb. 60

July yearling, G. W. Gebhart, Bolckow, Mo. 56

July yearling, Grant Jones, Davis City, Iowa 50

J. A.'s Lorine, April, 1906, G. W. Gebhart 55

March gilt, Guy Sickle, Blockton, Iowa 32

August yearling, J. A. Williams, Villisca, Iowa 33

Lulu Patchen 3d, March, 1905, M. W. Siemiller, Blockton Iowa 39

August yearling, W. H. Hensley, Blockton, Iowa 36

July yearling, W. M. Schrader, Green-

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field, Iowa	42
July yearling, W. M. Watt, Green City, Mo.	47
August yearling, Josiah Gebhart, Ray, Mo.	50
May yearling, J. M. Pope, Blockton, Iowa	36
May yearling, W. M. Watt	41
March gilt, Geo. S. Mohler, Conway, Ia.	38
September yearling, Guy Sickle	38
Giantess, September, 1907, A. E. Wisdom, Blockton, Iowa	41
Nebraska Bell, March, 1908, J. M. Coleman	50
September yearling, J. A. Stephenson	51
September yearling, H. W. Sickle, Blockton, Iowa	32
Long Bess, May, 1905, C. C. Smith, Savannah, Mo.	39
March gilt, T. W. Ford, Leanoz, Iowa	31
Wilkes Prida 2d, July, 1902, Henry Dorr, Remsen, Iowa	45
March gilt, J. A. Stephenson	34
July yearling, T. W. Ford	38
September yearling, John Boehler, Bridgewater, Iowa	40
August yearling, H. W. Sickle	33
Lorine R. 9th, October, 1907, Josiah Gebhart	62
Chief's Lady 3d, April, 1906, J. J. Fluke, Blockton, Iowa	52
Miss Prospect, March, 1909, same	50
Giantess Prospect, July, 1907, W. M. Schrader	56
Panohavie, April, 1903, A. E. Wisdom	37
Ruby's Giantess, August yearling, W. M. Watt	40
Ruby's Giantess 2d, August yearling, Guy Sickle	40
Ruby's Giantess 3d, August yearling, Grant Jones	40
Yearling gilt (owned by H. S. Duncan), J. H. Wintermute	72
Mr. Wintermute also disposed of a number of Short-horn cattle. These, however, went at very low prices, as they were somewhat thin in condition.	

THE S. J. MADISON SALE.

A good crowd of breeders and farmers attended the S. J. Madison sale at Nevinville, Iowa, on January 26th, and thirty-eight head averaged \$40.39. Everything considered it was a good sale and buyers got good value for their money. Below we list those selling for \$30 and above:

Lot.	Price.
1. Mark W. Eddy, Fontanelle, Iowa	\$50.00
2. F. A. Strong, Orient, Iowa	77.50
3. Wm. Walkenshaw, Griswold, Iowa	55.00
4. Same	54.00
5. F. W. Young	25.00
6. E. Petticord, Perry, Iowa	46.00
7. G. T. Reed, Nevinville, Iowa	53.00
8. Same	33.00
9. Same	47.00
9½. Mark W. Eddy	34.00
10. F. A. Strong	39.00
11. H. S. Allen, Russell, Iowa	43.00
12. C. E. Kellogg, Nevinville, Iowa	43.00
13. T. G. Gawley, Irwin, Iowa	34.00
14. W. E. Feeny, Nevinville, Iowa	46.00
15. V. C. Hansen	35.00
16. G. T. Reed	39.00
21. Same	32.00
22. C. E. Kellogg	49.00
23. C. E. Veak, Essex, Iowa	35.00
25. Lester Smith, Avoca, Iowa	40.00
26. H. R. Davis, Corning, Iowa	42.00
34. G. T. Reed	37.00
35. Ed. Harris, Fontanelle, Iowa	45.00
36. Theo. Schwarz, Earlring, Iowa	43.00
37. Frank Edwards, Nevinville, Iowa	48.00
38. Hanks & Bishop, New London, Ia.	76.00
39. Jim Reynolds, Earling, Iowa	41.00

ALLDRITT MAKES \$41.40 ON FIFTY-ONE HEAD.

Mr. Frank Alldritt, of Friend, Neb., sold fifty-one head of Duroc sows and gilts at his dispersion at the above figure—no high prices being registered, nor none extremely low. Several lots were sold, however, that were not cataloged. A number of the choice younger gilts, about twenty, were not brought out on account of darkness setting in and he expects to offer them and some other just bred privately. The sale was very good, taken all through. Red Bud I. brought the top, \$61, going to Mr. G. Van Patten, of Sutton, Neb. Mr. T. H. Isaac, of Red Oak, Iowa, and Mr. Geo. M. Hammond, of Manhattan, Kan., secured several good bargains, as well as Mr. H. O. Harney, of Marquette, Neb., Mr. Geo. Schmal, of Sutton, Neb., and Mr. E. Vinnig, of Stanford, Neb. Colonel Waldo did the selling. Sales at \$30 or more are here given:

Lot.	Price.
1. Geo. King, Friend, Neb.	\$59
2. J. W. Kelch, Fairmont, Neb.	35
3. Marion Pierson, Friend, Neb.	50

4. J. W. Kelch	46
5. Geo. Schmal, Sutton, Neb.	30
6. J. W. Kelch	37
7. Same	41
8. G. Van Patten	61
9. Donis Thorpe, Geneva, Neb.	38
10. T. H. Isaac, Red Oak, Iowa	36
11. Same	56
12. C. H. May, Roca, Neb.	32
13. H. Howell, Friend, Neb.	40
14. H. O. Harney, Marquette, Neb.	50
15. T. H. Isaac	41
16. J. W. Kelch	60
17. Geo. M. Hammond, Manhattan, Kan.	40
18. H. O. Harney	42
19. M. Brusnahan, Dorchester, Neb.	55
20. C. H. May	43
21. H. Howell	34
22. Ed Joy, Dorchester, Neb.	37
23. J. W. Kelch	50
24. Lou Wilson	33
25. O. D. Freeman, Friend, Neb.	38
26. E. Vining, Stamford, Neb.	39
27. Marion Pierson	46
28. Geo. M. Hammond	38
30. Marion Pierson	32
31. A. Ferguson	38
32. Same	33
33. B. F. Rohrer, Denton, Neb.	34
34. J. W. Kelch	38
37. Same	40
35. Tom Murphy, Friend, Neb.	34
36. H. H. Koenig, DeWitt, Neb.	39
38. S. W. Avery, Fairmont, Neb.	35
39. G. E. Boyd, Oakdale, Neb.	35
41. M. Brusnahan	50
43. J. W. Kelch	40
44. V. H. Beggs, Friend, Neb.	35
45. Geo. E. Boyd, Oakdale, Neb.	34
48. T. H. Isaac, Red Oak, Iowa	41
52. M. Brusnahan	40
53. Geo. King	41
54. J. W. Kelch	37
55. Geo. E. Boyd	36
56. A. Ferguson	34
57. S. P. Dallas, Tobias, Neb.	40
58. Paul Donisthorpe, Geneva, Neb.	38
61. Geo. King	55

LAWSON'S POLAND CHINA SOW SALE.

Mr. John B. Lawson, of Clarinda, Iowa, held a very successful sale of Poland China hogs on January 27th. While there was not a large attendance, those who were present exhibited intense interest and bought the forty head contained in the consignment readily at an average of \$44.56. There were no extremely high nor extremely low prices. The following is a brief list of the sale:

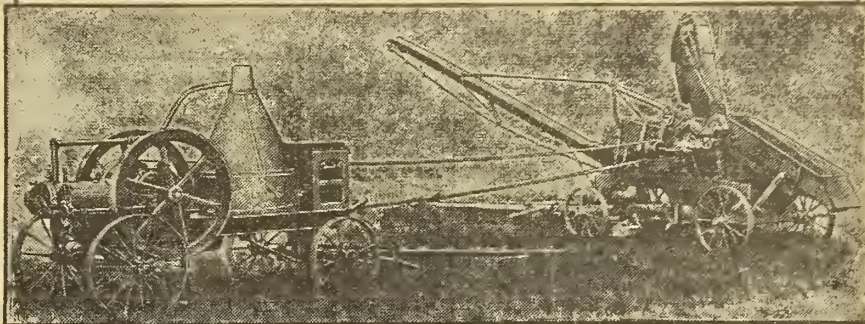
Lady Prospect, March, 1908, E. T. Rhoades, Shenandoah, Iowa	\$48
Lady Jumbo 5th, March, 1908, Wm. Carwin, Essex, Iowa	57
September yearling, same	50
September yearling, same	27
Miss James, October, 1904, H. W. Bosley, Clarinda, Iowa	47
April gilt, Harry Farns, Clarinda, Iowa	36
April gilt, Wm. Black, Clarinda, Iowa	37
April gilt, John Nothwehr, Yorktown, Iowa	34
September yearling, Wm. Carwin	60
September gilt, P. E. Shull, Riverton, Ia.	46
September yearling, E. T. Rhoades	46
March gilt, F. G. Borusch, Villisca, Iowa	44
March gilt, E. T. Rhoades	48
Lady Corwin, March, 1907, Chas. Lindquist, Essex, Iowa	49
March gilt, Harry Farns	33
March gilt, Walter Florin, Clarinda, Iowa	33
Big Mariah, March, 1907, H. C. Ruwe, Herman, Neb.	50
Oaklawn Price, March, 1906, John C. Halderman, Burchard, Neb.	60
February gilt, A. J. Williams, Villisca, Iowa	36
March gilt, D. L. Rhoades, Shenandoah, Iowa	35
February gilt, Wm. Carwin	45
February gilt, P. E. Shull	40
February gilt, Chas. Lindquist	33
Miss Keep On, April, 1904, John Depue, Clarinda, Iowa	65
March gilt, C. S. Price, Macedonia, Iowa	41
March gilt, Walter Florin	36
April gilt, John F. Prigga, Clarinda, Ia.	53
April gilt, F. G. Burge, Villisca, Iowa	48
February gilt, A. P. Larimore, Kinderhook, Ill.	47
February gilt, John F. Prigga	45
September yearling, D. L. Rhoades	40
March gilt, Geo. W. Seffrit, Lucas, Iowa	66
March gilt, Vixey Bennet, Logan Park, Ill.	51
March gilt, C. S. Price	60
April gilt, H. W. Polsley, Clarinda, Iowa	39
May gilt, D. L. Rhoades	28
March gilt, J. V. Carlson, Clarinda, Iowa	35
March gilt, Hal T. Hooper, Maryville, Mo.	34
March gilt, J. V. Carlson	34
March gilt, Chas. Lindquist	46

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THE BROOD SOW.

To the Editor of The Homestead:

At this stage of the game, the important subject for thought with reference to the brood sow is as to what method of treatment will put her into that physical condition which shall be not only a promise, but a guarantee, of satisfactory results at farrowing time.

Certainly the character of the sow stands as the first and essential element. But at this date the sow has, of course, been provided, so it remains only for the owner to make the most of her, no matter what she may be. The sow now becomes an investment, and one which will yield a profit only when given business-like attention. The capitalist who lends money on a piece of property protects his own interests by insisting that it be kept in good condition. The same principle should apply in the case of the brood sow.

As no profit whatever can be looked for from any animal not in perfect health, it follows that the food and environment conducive to health should receive the first consideration. It may be stated as an undeniable fact that ill health and thriftlessness are due to improper food, or food given in improper quantities or at improper times, or to unsuitable housing. It is equally true that all these elements are under the control and direction of the owner.

The question of feed takes precedence over others. There is at this time no reason why any farmer who reads this paper should fail to appreciate the absolute importance of a properly-balanced ration, or the elements of which it is composed. The sow must be fed right. She must receive a sufficient quantity of those feeds which are productive of bone and muscle-forming materials. She must be fed at regular periods. The quantity of feed must be determined as shown by her ability to make advantageous use of it. That means careful observation at every feeding time. There is a happy medium between too much feed and too little that can be found in no other way.

The voidings of the hog are the most certain, as well as almost the only reliable, barometer of its condition of health. Aside from cases of infectious diseases, all needed regulation of the bowels are unerringly indicated by the condition of the droppings. And when the stomach and bowels of a hog are in a normal working order thriftiness follows as a matter of course. Undue looseness, or dry, hard droppings, become a danger signal whose warning cannot be ignored without disaster.

It is quite true that, throughout most of the hog-raising states few, if indeed any, farms produce the grains from which a properly-balanced ration may be formed. The condition is not a new one. In the past most hog raisers have, while realizing the faultiness of doing so, turned to an all-corn diet with the belief that economical production justified the breach of the principles of feeding. The lack of fecundity of their hogs, and their failure to mature to a marketable size at a reasonable age, stand as a monument to the failure of their course. Today the relative prices of feeding materials have assumed such proportions that corn, which is a faulty ration for the growth and development of the brood sow, may be sold and the proceeds used in the purchase of foods adapted to the purpose and the transaction be attended with a profit regardless of that resulting from the proper feeding of the hog. The farmer who makes a success of his business must get out of the ruts and narrow business channels that have marked the course of his ancestors. The mere raising and feeding and selling ought not to be considered all there is of his occupation. Studying conditions, realizing opportunities and taking advantage of them, become the modern requirements as well. Corn alone is today too expensive for hog feed.

The shelter of the hog has much to do in maintaining a condition of thrift. Sleeping places may be of such character as to destroy the effects of the most perfect system of feeding. Any roomy shelter, dry, capable of ventilation, but absolutely proof against drafts, will do. If these conditions are

supplied, the question of heat will take care of itself. There should be means of entrance or exit available at all times. If used for sleeping quarters alone, the ground floor is the more advisable. Dirt has antiseptic properties and is an absorbent and besides is the most comfortable floor material. Bedding should be changed often enough to prevent dampness. Damp beds and drafts are prolific promoters of stomach and lung affections.

With feed and shelter requirements correctly provided there need be little fear of the brood sow becoming too fat. She needs to be in good, strong condition of flesh. A good appetite and a good coat are to be kept in view all the time. At the approach of farrowing time avoid any change in habits or rations that may tend to produce a nervous condition or disarrangement of digestive organs.

C. C. Carlin.

A WORD FOR THE SHIRES.

To the Editor of The Homestead:

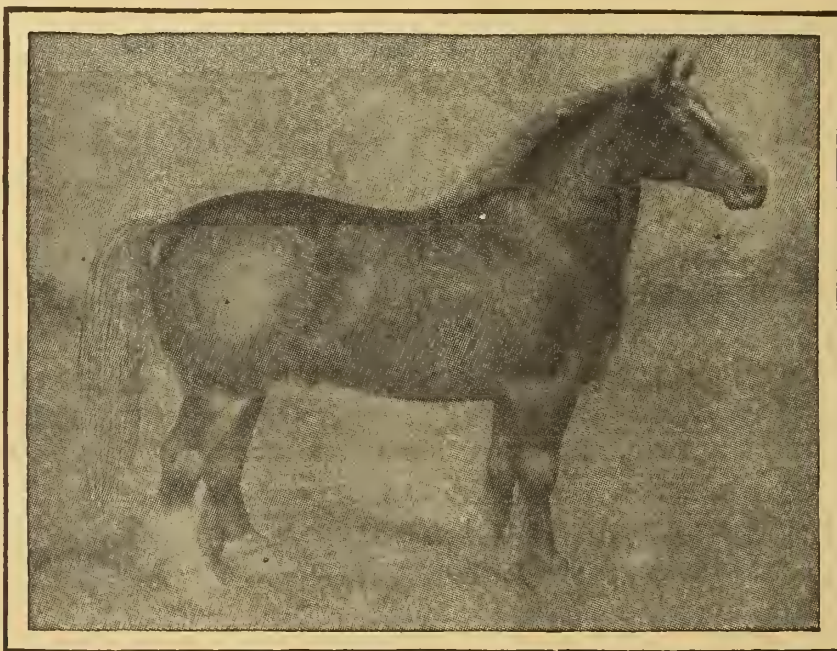
There seems to be a concerted effort to head off the growing popularity of Shire horses. The old chestnut about bad feet and sore legs is kept alive and now comes the claim that they cannot stand our summer heat. It is true that many Shire stallions with poor feet have been brought to

late Chicago International, that it was the largest collection of horse beef ever seen there.

Absolutely sound legs and feet can be found in plenty in England if buyers will be critical and pay the price. They have bone, muscle, and good proportions, unequalled by any other breed. In making my selections I choose horses in their flesh or at most in only moderate condition. I have not a greasy leg in my stable nor a foot that will not stand country roads without shoes.

Answering the charges that they will not stand the heat I will say that is false also. I proved that in my ten years' experience on my Texas ranch. The conformation of first-class Shires is such that they do not require to be loaded with fat to make a good appearance. While there I used imported mares and stallions to do my heavy work; pairs weighing 3,200 would make their twenty-four-mile trips in the hottest weather, hauling two tons, and walk away from common horses hauling half that weight. They worked the season through unshod. Native Texans who had never seen Shires made fun of them at first, calling them city pavements. It is not likely that Englishmen, recognized as the most successful breeders in the world, would continue breeding bad feet.

Greasy legs are the result of over-



A correct and life-like picture of a three-year-old Shire imported and owned by Mr. Geo. E. Brown, of Aurora, Ill. It is the sort that never has troublesome legs when properly fed, and can stand the heat of Texas or any other country where heavy horses are required. See advertisement on page 60.

this country, some by unscrupulous dealers, others by inexperienced buyers who were not critical because, having no value in England, they can be bought for any price offered. To say that Shires have proverbially bad feet is absurd and absolutely false; all country roads in England are macadamized and are as severe on feet as grease than other breeds. It was a common remark among visitors at the

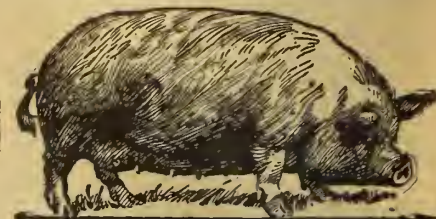
feeding which is encouraged by the craze for heavy weight and the strife to win prizes. Shires that are judiciously fed are no more disposed to "puddin' foots" because of the hair on their legs, but after seeing the fine colts by them and out of little broncho mares they changed their tune; when I was closing out there some men begged me to leave some Shire stallions. All the time I was in Texas I never had a

greasy leg, a case of founder, nor a Shire affected with heat.

Everyone connected with horse importing knows that Shires have contributed largely to the success of the other draft breeds, without receiving due credit—some of the methods used would not bear daylight. Every breeder with any experience knows that Shire stallions of the right type, cross on all sorts of mares with more uniformly good results than any other breed, but if a man only cares for "great big colts" and doesn't know the difference between meat and muscle and doesn't care for heavy bone, there are plenty of others that will fill the bill.

George E. Brown.

Kane county, Ill.



HOGS AT \$8 ON FOOT

Hogs on foot sold in Chicago and other markets this winter at \$8.00 per 100 lbs. The price of hogs and corn are both good. At any price, hogs are worth too much to allow disease to kill them. "I have fed



LEE'S HOG REMEDY

for years and have not lost a hog," says James Howe, of Missouri. Two dollars for 25 lb. pail, or \$8 for 100 lb. box, makes this medicine an investment profitable beyond estimating.

80 percent of the 80 million Hogs in the U. S. are raised in 10 States. Think what the health of your hogs means to the balance of the country, and the price you get for them means to you. Decide for hog health to-day.

Our other Stock Remedies—Lee's Stock Tonic; Lee's Best Conditioner; Fly-Cure; Lee's Dip. Ask for catalog.

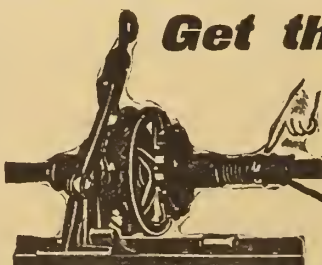
GEO. H. LEE CO.,
1173 Harney St., Omaha, Neb.



"MORE POTATOES"

From ground planted secured by use of the KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for catalog, price and full description.

A. J. PLATT, Mfr.,
Sterling, Ill.



Here Is Our Exclusive Quick Change Variable Drop Device

Does what everyone has been waiting for in a planter. Simple, strong and instantly adjustable, automatically from the seat. The driver by small hand lever in easy reach sets this clutch so as to turn the seed shaft one-sixth, one-fourth or one-third of a revolution so the machine plants 2, 3 or 4 kernels to the hill. All done without change of plate or leaving your seat.

Thus without stopping your team you can judge your soil in hollows and on hills and plant just the number of kernels to grow best—for better corn—more uniform growth, much larger yield per acre and BIGGER PROFITS. Write for booklet.

Get the Only Planter That Drops 2, 3 or 4 Kernels Just Where It Should

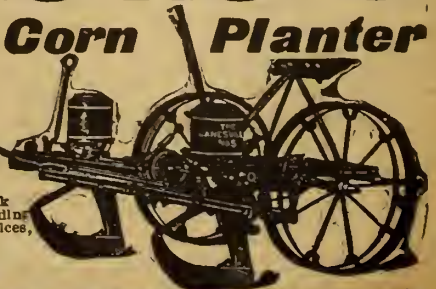
You know your land best of any man—just what the soil will grow—just where bad and good patches are in your fields, up and down hill and in the hollows. So we've made this corn planter to do for you what no other planter made today can do. With the Janesville No. 5 you reach forward from your seat—set our edge drop while driving right along and instantly shift to plant 2, 3 or 4 kernels as the variable soil will best stand it. That alone is worth the price of the Janesville No. 5 in the even growth and better crops you'll get on even a few acres in one year. But the Janesville No. 5 also combines all of the other most desirable features of the most successful planters today. Absolute accuracy in selection and edge drop—(and can plant round kernels in mixed corn too, so there can be no clogging) Double row, combination check row and drill. Quick change of plates without wrench so you can't get them in wrong—3 sets of plates for checking with each machine for a possible 18 changes—also 4 sets of plates for drilling with 24 changes. Don't think of buying until you write for booklets about

The Janesville No. 5 Variable Drop Corn Planter

Other special features include—possibility of changing runners so you can use the Shoe, Stub or Disk Runners on the same machine. Also we release the wire at end of field with our special automatic trip instead of the old way by rope. Our automatic device distributes the wire on reel while winding up. Numerous other special features and improvements.

FREE BOOKS—Tell all about our "Big 5" Line of Janesville Machines

Ask for corn planter booklet and say whether you are interested also in Janesville Riding or Walking Plows—Janesville Riding or Walking Cultivators—Janesville Disk Cultivators—or Janesville Disk Harrows. Let us send you our Free Booklets—tell you the names of Leading Dealers who can show you Janesville machines, and all facts about prices, etc. Write today to our factory



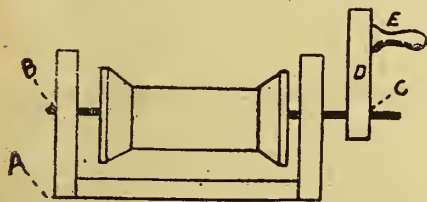
The Janesville Machine Co., 31 Center Street
Janesville, Wis.

HINTS-SUGGESTIONS-DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A HANDY WINDER.

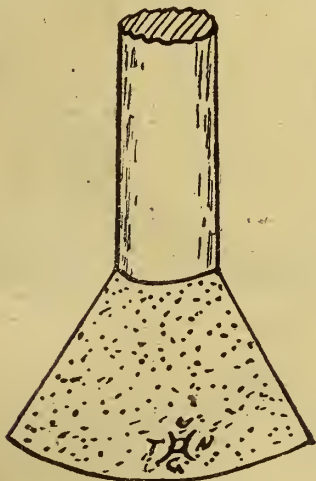
I have found this fish line winder very handy, writes a Missouri subscriber. Get a piece of thin board two inches long and three-fourths of an inch wide. Cut two other pieces of board one and one-half inches long by three-fourths of an inch wide and fas-



ten them upright on the two-inch board as shown at A. Then bore a one-fourth inch hole one-fourth of an inch from the top of the upright boards. Then take a common spool and pass a stick through it so as to make it tight in the spool; whittle the ends of the stick so as to make them fit loose in the quarter-inch holes shown at B; cut a piece of board one and one-half inches long and one-fourth of an inch wide and bore an eighth-inch hole in each end; slip the end of the stock at the right of the spool at C into the small stick, and a peg one inch long in the hole at the other end at E and glue it and the stick D onto the small rod C and let it dry. It is as good as a reel that you would pay fifty cents for.

Placing Fence Posts Without Post-Holes.

The exigency of fence building often requires that a fence post be placed where it is impossible to dig a hole, as upon top of a rock, etc.; or merely a

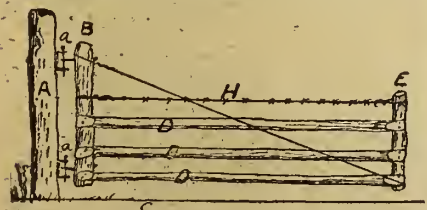


temporary fence is desired to which use this post may be used with excellent results.

The post is first cut the length it is desired to be placed above ground and then while held in position, upright, concrete mortar is placed around the base and smoothed upward in a conical form in the manner shown in illustration, which securely anchors the post and permits its removal in the case of a temporary fence.

A Pole Gate.

A convenient gate can be made by using three poles of the length desired, and two uprights. Each end of the pole ought to be flattened so that twenty-penny nails will hold, or a

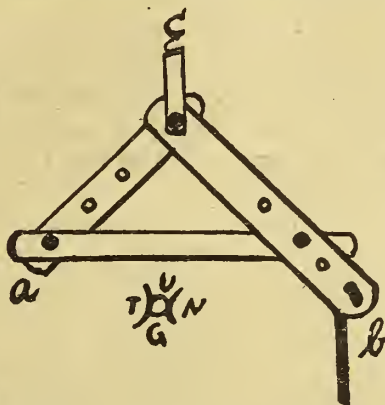


bolt should be used. Sliding hinges are used (A) and the upright to which the hinges are attached (B) is about two feet longer than the other up-

right (E). A barbed wire (H) is placed one foot above the upper pole. This is an inexpensive gate, it is strong and really looks better than you would think from the description:

Handy Attachment for Three-Horse Eveners.

The simple attachment shown in illustration, which may be made in the farm blacksmith shop, will be found of invaluable service in working three horses abreast; as it is light and does



not become tangled when turning around, it also gives with the movements of the load drawn, thus preventing sudden jerks upon the shoulders of the animals; last, but not least, it enables you to adjust it, in a moment's time, to the capacity for work of the different animals that make up the team—thus, for instance, if a young colt is to be driven between two older horses, you can move the hook (b) which is attached to whiffletree of the center horse, out to the end, thus giving greater leverage and reducing the load he must draw. In the same manner you can drive two light animals upon each side of a stronger horse in the center, and adjust the attachment so to place more than the

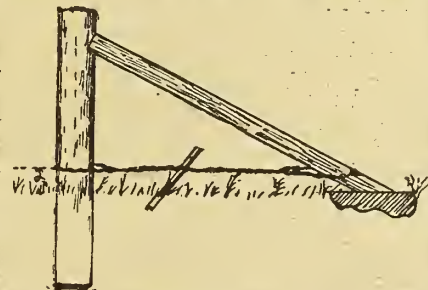
usual amount of the load upon the center animal.

The device is made by cutting two heavy pieces of bar iron or strap iron into strips, one fourteen inches long, the other nine inches long; holes are drilled for bolts and clevises the length of same and they are connected and held at right angles to each other by a lighter bar of iron, as shown in drawing.

The team is attached at (a) by an eveners that is long enough to permit three horses to work abreast, the center horse is attached at (b) by an iron rod from whiffletree to the fourteen-inch iron, or by using a chain and clevis; the holes permit the load to be shifted at the will of driver and the working of attachment does not permit either horse to shirk; the point (c) shows where the attachment is connected to the load by a clevis which also connects the two irons together. As the entire device is connected by bolts it permits it to adjust itself to the load, which is exceptionally valuable in harrowing.

A Fence Brace.

I have read quite a number of articles in your paper in regard to making a corner brace for wire fences, and for the benefit of those who might like to try this one I will submit the sketch herewith, says U. T. Rice, Southwest City, Mo. Of course, as with other braces, the corner post requires to be set deeply and firmly in the ground. The brace may be mortised at the top, but at the bottom should be made beveled to fit level on a large flat stone or concrete, without the use of an additional post. After the post and braces are set, proceed to wrap the wire transversely around the bottom of the post and braces, begin-



ning by tacking the end of the wire about six inches above the ground on the corner post. After the wire is wrapped around several times, to be

sure of strength to resist the pull of the fence, insert a stick or bar of iron midway between the brace and corner post and give several turns until the brace is resting firmly on the stone and the whole thing is solid, then proceed to stretch the wires. Lastly, after the fence is completed, give the stick several more turns and the wires will sing. When at any time the fence becomes slack it may be tightened in this way. In most cases ordinary galvanized smooth or barb wire will do.

DORR'S POLAND CHINA SALE.

Mr. Henry Dorr, of Remsen, Iowa, held his annual public sale of Poland China brood sows on January 25th. Forty-six head were sold at an average of \$46.05. The offering was just such as had been described in previous issues of The Homestead and met with a hearty reception on the part of the buyers. There was not a wide range of prices, the top being \$82 and the lowest price \$32. Below we give a list of the animals sold:

Lot.	Price.
1. Fall gilt, E. F. Barlow, Doon, Iowa.	\$65
3. Fall gilt, same.	60
5. Fall gilt, same.	67
6. Fall gilt, same.	56
2. Fall gilt, Will Henry, Marcus, Iowa.	65
4. Fall gilt, J. Q. Arnold, Marcus, Iowa.	42
7. Fall gilt, Will Henry.	52
8. Fall gilt, E. Kirchoff, Marcus, Iowa.	46
9. Fall gilt, Will Harmon, Granville, Iowa.	40
10. Spring gilt, F. Dorr, Cleghorn, Iowa.	50
11. Spring gilt, same.	32
12. Spring gilt, A. R. Rockwell, Paullina, Iowa.	36
13. Spring gilt, Stineberg Bros., Mansou, Iowa.	40
14. Spring gilt, Ralph Potter, Marcus, Iowa.	45
15. Spring gilt, Will Henry.	82
16. Spring gilt, F. A. Russell, Ponca, Neb.	50
17. Spring gilt, Stineberg Bros.	37
18. Spring gilt, J. Sommers, Ponca, Neb.	45
19. Spring gilt, A. Nagel, Marcus, Iowa.	51
21. Spring gilt, H. Queen, Marcus, Iowa.	50
22. Spring gilt, A. F. Bollin, Quimby, Ia.	40
23. Spring gilt, Ralph Potter, Marcus, Iowa.	33
24. A. J. Scholtz, Marcus, Iowa.	44
25. F. Gillette, Hampton, Iowa.	39
26. Roy W. Rockwell, Paullina, Iowa.	40
27. H. Hermon, Granville, Iowa.	35
28. H. Tobin, Palmer, Iowa.	45
29. F. A. Russell, Ponca, Neb.	40
30. J. C. Phillips, Kingsley, Iowa.	37
31. A. Nagel, Remsen, Iowa.	52
32. A. Nelson, Meridan, Iowa.	36
33. A. R. Rockwell, Paullina, Iowa.	65
34. J. Summy, Ponca, Neb.	40
35. A. Nagel.	40
36. Will Henry.	55
37. W. F. McLaughlin, Manson, Iowa.	40
39. P. Potter, Marcus, Iowa.	46
40. Same.	32
41. H. F. Tobin, Palmer, Iowa.	36
42. J. W. Zimmerman, Washta, Iowa.	39
43. A. Nelson, Meridan, Iowa.	41
44. F. A. Russell.	35
45. R. Nelson.	34
46. Will Henry.	55
49. Same.	49
47. A. Nagel.	50
48. W. Herman.	34



Hog Feeding Floor of Concrete



Concrete Field Trough

Hogs thrive best on concrete feeding floors because they are clean and sanitary. The hogs can't make a dent in the concrete. Concrete floors can be kept clean because mudholes and stagnant pools are eliminated. Clean feeding quarters mean healthy stock.

When planning to use concrete remember that no matter how careful your construction may be, it is certain to be unsatisfactory unless the cement you use is of the right quality. To expect to make hard and durable concrete from poor cement is like trying to make a good pair of shoes from scrap leather.

ATLAS PORTLAND CEMENT

Makes The Best Concrete

The largest buyer of ATLAS Portland Cement is the United States Government, which recently purchased 4,500,000 barrels for use on the Panama Canal. There is only one grade of ATLAS Portland Cement manufactured—the best that can be made—the same for everyone.

ATLAS Portland Cement is made of genuine Portland Cement Rock. It contains no furnace slag.

Send for Our Free Cement Book. "Concrete Construction about the Home and on the Farm." It contains directions for making and handling concrete, and shows how to construct large and small buildings. There are 168 pages and over 150 illustrations, diagrams and plans.

Ask your dealer for ATLAS. If he cannot supply you, write to

The ATLAS Portland CEMENT Co. Dept. 111 30 Broad Street New York

Productive capacity over 50,000 barrels per day—the largest in the world

Don't Have a Blind One

"VISIO"

Wonderful Discovery



DISEASES of the EYE successfully treated with this NEW REMEDY.

AN ABSOLUTE CURE

for Moon Blindness, (Ophthalmia), Conjunctivitis and Cataract, Shying horses all suffer from diseased eyes. A trial will convince any horse owner that this remedy absolutely cures defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO." We use it under our GUARANTEE; your money refunded if under directions it does not effect a cure. "YOU PAY FOR RESULTS ONLY." \$2.00 per bottle, postpaid on receipt of price. Visio Remedy Ass'n., Dept. D, 1933 Wabash Ave., Chicago, Ill.

Boo Spavin

Cure the lameness and remove the bunch without scarring the horse—have the part looking just as it did before the blemish came.

Fleming's Spavin Cure (Liquid)


is a special remedy for soft and semi-solid blemishes—Boo Spavin, Thoroughpin, Splint, Curb, Capped Hock, etc. It is neither a liniment nor a simple blister, but a remedy unlike any other—doesn't irritate and can't be imitated. Easy to use, only a little required, and your money back if it ever fails.

Fleming's Vest-Pocket Veterinary Adviser

describes and illustrates all kinds of blemishes and tells you how to treat them. Covers over 200 veterinary subjects. 132 pages, 69 illustrations. Write for a free copy.

FLEMING BROS., Chemists, 210 Union Stock Yards, Chicago, Ill.

\$1.00 SAVES HIM!



Cure your horse of any Spavin, Curb, Splint, Ringbone, Bony growth or Lameness with a \$1.00 bottle of

KENDALL'S SPAVIN CURE

In use over forty years. What one man says: "I have cured 5 Spavins with Kendall's Spavin Cure, and think it is an excellent remedy." Yours truly, W. Stricker, Florance, S. D.

For sale at all druggists \$1.00 per bottle, 9 for \$5. Keep it on hand. Ask druggist for "Treatise on the Horse," or write to

Dr. B. J. Kendall Co., Enosburg Falls, Vt.

BREEZE 7 Handsome Models \$275

Travel the worst roads And Motor Vehicle with ease and comfort Up.

SEND FOR CATALOG "O"

The breeze is strong, simple, speedy and safe. Best motor vehicle built for country roads—mud, deep sand or high hills. 13-18 H. P. engines. Lowest cost of up-keep, least tire trouble. Handsomely finished.

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DEATH TO HEAVES

COUGHS, DISTEMPER, INDIGESTION

Guaranteed or Money Refunded



Newton's Sore for Booklet, "Horse Troubles" Explains fully. \$1.00 per can at dealers; or express paid.

Indigestion Causes Heaves

THE NEWTON REMEDY CO. Toledo, Ohio.

"Cow Troubles"

Is the title of our Book G-A that is sent free, telling how to relieve Caked Bag, Sore or Injured Teats, Spider in Teat, Cow Pox, Udder Troubles, and prevent Heifers from becoming hard milkers with

"Cows Relief"

\$1.00 per Box

Delivered, or at Dealers'

O. H. MFG. CO., 48 Chapel St., Lyndon, Vt.

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With rig in every county to introduce and sell family and veterinary remedies, extracts, etc. Fine pay. We mean business. We want salesmen in all states. Write us. SHORES FARM REMEDY CO., TRIPOLI, IOWA.

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\$1200 year and upwards can be made taking our Veterinary Course at home during spare time, taught in simplest English; Diploma granted, positions obtained for successful students; cost within reach of all; satisfaction guaranteed; particulars free. ONTARIO VETERINARY CORRESPONDENCE SCHOOL, Dept. 10, London, Canada.

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MADISON, WIS.

Veterinary Editor The Homestead.

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HORSES

Going Blind, Bary Co. Iowa City, Ia. Can Cure.



VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

PROLAPSE OF VAGINA.

I have a white, full-blood O. I. C. sow and her womb has come out. Part of the time it is out more than other times, sometimes out just a little, and sometimes out as big as a walnut. She eats well and looks good, runs in an open field, sleeps in a shed. Can you tell me what to do for her?

It is not the womb but a part of the vagina or a tumor that shows. Simply bathe it with extract of witch-hazel and it may keep in place. If it is a tumor (polypus) an operation may be necessary.

PARTIAL PARALYSIS.

I have some pigs, farrowed in September, and occasionally when I go to their sleeping quarters I find one struggling to rise. Recently I found one weighing about sixty pounds, in nice condition, struggling to rise, with his head bent to one side, but he could not squeal. I picked him up and changed him to another pen and finally he got up and staggered away, but at this writing he is in the same old rut. Tell me what the trouble is and what to do for it.

Overfeeding and lack of exercise are the cause. Stop feeding corn and substitute a light slop of milk, middlings and a little flaxseed meal. Allow roots and alfalfa if obtainable. Turn the pigs out every day for exercise or sprinkle a little shelled corn under litter on a big shed or barn floor and let them root for it. Mix limewater freely in the slop once a day.

LAME MARE.

I have a bay mare, six years old, that has something wrong with her left hip. She acts as if she were stifled. In running or trotting she drags her foot and seems to be very lame. I tried to trim her foot the other day, but could not get the foot high enough. It seemed as though the hip joint were stiff. If you can answer from my description, please do so.

Tie mare up in stall. Clip the hair from stifle joint and around it and blister with cerate of cantharides. If this does good repeat the blister in three or four weeks if the mare is still lame. We suspect that the seat of the lameness is the stifle, but without an examination that is merely a guess, so it would be best if possible to have an examination made by an expert.

FAIL TO BREED.

Can you tell me what to do to have my brood sows get in heat? I have them shut up in a good, warm stable and am feeding them oats and corn and good swill. I fed my hogs copperas about a month ago to rid them of worms. Do you think this is the cause that they do not get in heat?

We have never heard of copperas causing sterility or failure to come in heat, but it is apt to cause abortion. Give the sows twelve drops fluid extract of damiana once daily in a little milk for two or more days. This will usually bring on a period of heat if the sow is in healthy condition.

INDIGESTION.

I have a flock of eleven sheep and two of them are sick. They seem to go almost blind at times and stand with their heads down and against something. They do not eat much after they become sick. We have been feeding clover hay and they have free range during the day. At night they are kept in a shed. Last year they were the same way and we lost a good many.

Stoppage of the bowels or indigestion due to feeding too much coarse, rough, bulky food without a due amount of succulent food or laxative foods is the common cause of the condition described. Feed equal parts of whole oats and bran and if possible supply some well made silage, roots of alfalfa hay that is free from mold.

LAMENESS.

I have a twelve-year-old mare that was bitten by a dog on the right hind hock nearly a year ago. It healed, but the joint stayed large and hard. I worked her all summer until about the first of October and then she went lame. I have tried various remedies, but to no avail. I should like to cure her of the lameness so I could work her next spring.

Clip the hair from hock point and blister thoroughly with cerate of cantharides. Rub the blister in for fifteen minutes; wash it off in forty-eight hours, then apply a little lard daily. She will have to be kept tied up short while the blister is acting. If

the first blister does some good, but the lameness does not wholly subside, repeat the blister again in three or four weeks.

WART.

I should like to get some advice in regard to taking a wart off of a yearling colt. The wart is on the hind leg on the ankle joint on the outside. Now I have used several remedies that were prescribed and none of them will take it off. I used caustic of soda ash and burned it all off, but it came back again. That was about four months ago and I cut it off level with the surface and used muriatic acid, pure. I also used croton oil and sweet oil. Now if there is anything that you can tell me please let me know.

It is not a wart but a "summer sore" due to a parasite or fungus and will be found difficult to remove permanently. It is also possible that it may be an incurable cancer. Tie colt up short. Cleanse part. Smear lard around growth. Then rub in a very little powdered yellow sulphuret of arsenic and when possible remove the

scab this will cause. After the scab has been removed rub sore with iodoform powder once daily and then paint with coat after coat of flexible collodion.

PARALYSIS.

I have a ewe that is sick. The first time I noticed anything wrong with her was one morning when I went to drive her into another lot. She went a short distance all right, but all at once she threw her head to one side and fell over on her side. She lay there a little while and then got up and seemed all right and went into the other lot and ate her corn and oats. She did this every morning for about four mornings, but not in the evening. One evening she did not eat her grain and the next morning I found her down and I have not been able to get her up since. She is still alive this evening, but has been down one week. She keeps one eye shut and turns her head to that side and back as far as she can get it. I have been feeding mixed clover and timothy hay. Please tell me what is the matter with her.

There is no hope for the ewe. It may be that the brain lesion causing paralysis is caused by presence of gad-fly grubs in the sinuses of the head, or there may be a hydatid on the brain. Paralysis may also result from indigestion or impaction of the bowels by dry, coarse, bulky fodder. Feed more succulent food.

Although it is better to have a thermometer for each machine, two incubators may be regulated with one thermometer, but one machine cannot be regulated with none at all.



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They tell how to cure all the common diseases of horses, sheep and dogs. They tell you what to do and when to do it. "Dr. Crafts Advice" tells the causes, symptoms and how to treat Distemper, Influenza, Epizootic, Shipping Fever, Coughs and Colds, Etc. "Veterinary Pointers" is full of valuable hints. "The Horse, His Diseases and Treatment" starts with Bots and ends with Shoeing—a book you'll always preserve. They also tell how

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is saving thousands of dollars for farmers. Contain proof that it is the safest, quickest cure for Distemper, Coughs, Colds, Fevers, Etc., on the market. We'll prove it for you, at our expense if it fails. Get a bottle and try it on our money back guarantee. Just read this letter.

G. A. Sumner, Montague, Mich., writes: "I had a horse that coughed for two years. I tried everything without success. Finally I heard of Crafts. Before one-half of a 50c bottle was used he stopped and is now perfectly well."


If your dealer can't supply you send to us. 50c and \$1.00. Large size three times small size. Endorsed by leading horsemen. Write for 3 free books today.

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GOOD-ROADS BOOK FREE

Mail postal at once to get the book that tells just what you want to know about good roads—how to get them quickest—at least cost; what bad roads cost and what good roads save; how to keep roads in most perfect condition; shows accurate photographs of what Glide Road Machines have done. Send your name in now on a postal. Book tells about the most practical and economical



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We have a size to suit your power and requirements. Get one of these guaranteed outfits now. Lumber is high. The mill will soon pay for itself. No experience needed. No Belts, Springs or complicated parts to get out of order or cause trouble. The sawer has complete control of Variable Friction Feed with one hand; slight motion of lever changes speed. Other time and labor saving devices enable this mill to saw more lumber with less power and less help than any other. Free Mill Book explains and lists our complete line of wood working machinery. Write for it today.

AMERICAN SAW MILL MACHINERY CO. 203 Hope St., Hackettstown, N. J. 1593 Terminal Bldgs., New York



DAY BY DAY

AGRICOLA

If we would cut down our own foolishly expensive habits we might have enough money to buy those wives of ours still larger hats.

It is a painful discovery to an infatuated girl to find out that the man after her own heart is after the other girl's heart instead.

If you are a progressive and your neighbor is a conservative keep your end of the division fence in good order.

The best part of a beautiful picture is the part which is suggested rather than expressed. It lies in the appeal to the heart rather than to the eye.

There are fine ladies and there are good women. Pin your faith to the latter.

The factory which proves a permanent success is the one with its old machinery in the junk pile, and the man who forges to the front strews his way with things he has learned to discard.

There is a great difference between investigating and meddling. The other fellow meddles; you only investigate.

It is difficult for a man to appear natural when he has an ax to grind and is looking for someone to turn the grindstone for nothing.

Half of the disappointments in life come from wanting what we cannot get, and the other half from getting what we do not want.

Speaking of the boycott against eating meat, it appears to be a device by which the needy laborer can have enough money left to buy his daily beer.

Don't bank upon your religion experience of ten years ago, nor rely upon last year's bath. Be clean today.

The new anesthetic, stovaine, has been tried here. A neighbor had to have a surgical operation on one foot to remove some broken pieces of bone. Stovaine was used and although there was no pain felt he was entirely conscious and could talk with the surgeons in regard to conditions. He chose not to look at the operation, but could have done so and had the novel sight of doctors whittling and digging into his foot and knowing it only by sight.

This is a great blessing. A year ago another neighbor had to have crushed foot bones tinkered up and of course was made insensible to everything, as stovaine was then unknown. But this was a great boon compared to a boyhood friend who had to have his leg amputated before chloroform was used. He told me that he was strapped tight to a table in a cold room in winter, and the pain was so torturing that the sweat ran from his naked body. This was many years ago. Chloroform was first used in 1832, but new things were slower to spread than now, as there were no telegraphs or fast mails.

In 1832, the year chloroform was discovered, an advertisement appeared in a Philadelphia paper reading: "The locomotive engine will leave the station daily with passenger cars attached when it is pleasant. When the day is rainy, horses will be attached." Let us give thanks that we were not born a half century sooner than we were.

Making a new acquaintance is sometimes equivalent to starting a new era in life. New visions, new aspirations, new growth, follow as with trees at each new springtime. He who has no friends is in the depths of poverty regardless of his holdings in houses and lands.

According to the Connecticut Experiment Station "continual selection of large potatoes will not increase the size of the tubers."

The way of the transgressor is hard.

So is the way of the man who does not transgress. The mistake the transgressor makes is to think he will have a soft snap.

Believing that dairying is not paying farmers more than half as much as it should because they keep scrub cattle three capitalists in this county formed a partnership to show this to the farmers by example and give them an opportunity to improve their own stock. They built good barns, put up ensilage, installed grinders and gasoline motors, put electric lights in all buildings, and bought the best stock they could find for the purpose, so far as their information went.

The two breeds selected were Short-horns and Jerseys, and a strict account was kept of results. There were too many blanks among the Short-horns and the whole drove was discarded. Not that some were not good, but the young stock could not be guaranteed for dairy purposes. Too many of them switched to beef.

Next the Jerseys were tuberculin tested, so as to guarantee the healthfulness of the milk and the stock sold. Many of them reacted and the whole Jersey herd was ordered disbanded, the reacting animals went to the slaughter house, the well ones to whoever wanted them, and Holsteins will be used exclusively. It has been a very costly experiment, but the owners will not stop because of that. They started to do something and are the "never-stop" kind. Final success is their goal, and a success which they can share with their neighbors.

Does a hen sit or does she set? I visited a country school yesterday and learned that a hen sits and a star sets. The schoolma'am gave the rule for telling which word to use. Perhaps you know it, perhaps you don't. I didn't. Why does a boy sit by a table and his lamp set on it? Or a son sit and the sun set? Ask your country schoolma'am.

STANSELL & MATERN'S SALE.

The sale of Duroc Jersey bred sows held by Messrs. Stansell & Matern, at McNabb, Ill., on January 25th, was very successful. It was one of the best offerings sold this year. Sows bred to The Professor were in strong demand. Colonels Reppert, Igleheart and Buck did the selling in their usual effective manner. Below we give list of sales: Price.

2. J. Young Caldwell, Williamsville, Ill.	\$150
3. Thos. Parkins, Low Point, Ill.	44
4. Hanks & Bishop, New London, Iowa	50
5. Buck & Miller, Sunny Hill, Ill.	52
6. Wm. Bishop, Tonica, Ill.	30
7. W. A. Beard, Tonica, Ill.	33
8. Wesley Kays, McNabb, Ill.	41
9. L. S. Griffiths, Woodhull, Ill.	40
10. W. O. Perry, Streator, Ill.	32
11. Buck & Miller	39
12. W. O. Perry	37
13. Whitehall Farm, Yellow Springs, O.	50
14. W. F. Matern, Wesley, Iowa	46
15. Frank Koeler, McNabb, Ill.	33
16. G. A. Blaney, Shabbona, Ill.	32
17. A. Hammischmidt, Hennepin, Ill.	39
18. R. R. Neuburn, Toluca, Ill.	39
19. W. A. Beard	37
20. Wesley Kays	37
21. L. W. Cross, Mason City, Ill.	46
22. W. F. Matern	43
23. Chas. Stockham, McNabb, Ill.	50
24. G. A. Blaney	36
25. J. J. Tomlinson, McNabb, Ill.	39
26. O. P. Mills, McNabb, Ill.	50
27. Frank Keeler	60
28. H. B. Wilson, Bradford, Ill.	60
29. Mace Wilson, McNabb, Ill.	48
30. Frank King	50
31. I. W. Stoner & Son, Henry, Ill.	64



A snapshot of Mr. T. J. Barmore's Juda Queen Mechthilde, taken a short time after being milked. She was a consistent winner in the last National Dairy Show. See page 53.

Repaint Before Decay Begins



THE time to repaint is before the old coat has worn off. To delay is to invite damage by the weather. Then the money apparently saved by not painting may have to be spent for repairs. After that the painting has to be done in addition. This can hardly be called economy.

But to keep buildings always well painted with good paint is true economy, for good paint both beautifies and protects.

The only way to get quality in paint is to use pure white lead ("Dutch Boy Painter" trade mark) mixed with pure linseed oil. These two materials form a perfect union, and when applied have the quality of penetrating the surface covered and becoming part of it. They wear down uniformly and the surface is ready for repainting without scraping or any other preparation except brushing off the dust.

Paint made of substitutes for pure white lead soon cracks, scales and drops off, allowing dampness to reach and rot the wood. Then the poor paint must be scraped off before a new coat of good paint is applied. This means unnecessary expense which may always be avoided by starting with paint made of our pure white lead ("Dutch Boy Painter" trade mark).

We have prepared a number of interesting booklets on the subject of decorations and color schemes for the interior of the home, and the arrangement of shrubbery outside. This information will enable any one to have an attractive home, with pleasing surroundings. We call the booklets our "Dutch Boy Paint Adviser No. 18" and will send them free to any reader of this paper.

Our Pure White Lead ("Dutch Boy Painter" trade mark) is now packed in steel kegs, dark gun-metal finish, instead of in oak kegs as heretofore.

NATIONAL LEAD COMPANY

An office in each of the following cities:

New York Boston Buffalo Cincinnati Chicago Cleveland St. Louis
(John T. Lewis & Bros. Co., Philadelphia)
(National Lead and Oil Company, Pittsburgh)



QUEEN GALVANIZED IRON CUPOLA

Gives perfect ventilation in your barn—saves you money—constant up-draft gives fresh air circulation for your stock. Rain and snow cannot beat in and spoil your hay and grain—birds cannot get in. Costs less than wooden cupola; fits any barn; easily put on; each cupola furnished with gold leaf weather vane.

Write for full information and prices.

SOBOLIK & PETERSEN, Dept. 3. CRESCO, IOWA

32. Same	40
33. W. F. Earl, Dana, Ill.	47
34. E. H. Deal, Elwood, Ill.	41
35. Frank Keeler	52
36. L. S. Griffith	45
37. L. W. Cross	43
38. Buck & Miller	25
39. John Childs, Hennepin, Ill.	31
40. N. A. Deal, Elwood, Ill.	36
41. L. S. Griffith	32
42. Wesley Kays	34
43. P. J. Grinner, Wesley, Iowa	39
44. W. F. Matern	71

SUMMARY.

43 head\$1,923; average.....\$45.00

I just want you to try it Free for 10 days

More corn to the acre—and more profits—is what every farmer wants. Plant fertile seed—that's the secret. Don't plant the small, shriveled-up kernels, the kind that die for lack of vitality and the sort that produce the dwarfed, stunted stalks feebly supporting undeveloped ears and sickly nubbins. Grade your seed corn, using

The HURFF Seed Corn Grader

It throws out the defective kernels, delivering four grades of corn. It is a force feed machine, non-adjustable and fool proof. It separates the plump, full kernels—the only kind you should plant. You can easily grade three bushels of corn per hour. No other grader equals the HURFF for perfect work. An hour's use will convince you, but I will ship the machine to you and allow you ten days' free trial, freight paid. Write to me at once; let me tell you how little the machine costs and how quickly it will pay for itself. You can't afford to be without it.

Ask me for my catalog and full particulars—tonight.

L. M. Hurff (1)
103 Maple Avenue
Galesburg, Illinois

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Guide Book on PATENTS and What to Invent, Free.
C. PAGE JONES & CO., 722 9th St., Washington, D.C.

I Want to Put You on My Preferred List

I am a nurseryman—have been in business almost all my life—in the heart of the famous fruit belt of Illinois. There are fruit trees in my orchard set out in 1836 still in healthy condition and bearing large crops. I grow all kinds of fruit trees and small fruits that are adapted to the great Central West, as well as the best evergreens, shade trees, hardy plants, shrubs, etc. I can

SAVE YOU HALF AND MORE ON YOUR TREES AND PLANTS

I sell only to farmers and fruit-growers—never employ agents. When you buy of me you keep their big commissions in your pockets, and get better stuff. I will write me at once I'll send you my 23rd annual catalogue—and a card making you a member of my preferred list for one year, with privilege of special discounts from my already low prices on any trees or plants you may buy of me. Write today.

IRVIN INGELS, Prop., Home Nursery
Station 34, La Fayette, Ill.

Horticulture

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

SOME INFORMATION ON PRUNING

We believe that the average man who is engaged in general farming and stock raising makes very little pretention at being an expert fruit raiser. The orchard is a sort of incidental appendage to the other departments of the farm. This is not equivalent to saying that a man with a small orchard should not become an expert in handling it. Indeed, we believe that it is not a difficult matter to learn how to handle trees. One of the most important things in connection with the care of an orchard is pruning, and in view of this we have had a series of articles written on this subject by one who is an expert, Mr. W. G. Baxter. The first one of the series appears in this issue, entitled "Why we Prune." There will be one article in each issue during the next few weeks and we commend their contents to those of our readers who have anything to do with trees.

CRANBERRIES FROM SEED.

A Minnesota subscriber wants to know if he can grow cranberries from seed, and how. Also if gooseberries may be grown from seed. Yes, these fruits can certainly be started from the seed, and the methods by which success is reached are easily understood. But the seeds of these berries are rather small, and the smaller the seeds the more difficult to handle. Begin by separating the seeds from the pulp while the fruit is still fresh. This is done by crushing the fruit and rubbing it through a sieve. Two or three washings will do the work. Have a box ready with an inch or two of damp sand in the bottom. Spread the seeds out thinly upon this and cover with damp sand. Keep this box in a cool cellar until fall. Then, as cold weather comes on, put the box out of doors in some protected place, where no animals will disturb it and where it will not dry out, and where it will remain frozen through the winter.

Then, when warm weather comes, have ground prepared, like a garden bed, very fine tilth. It will be better to have some admixture of sand, about one-third, in the soil. Such fine seed must not be covered deeply, but, after strewing it over the bed with the sand in which it has been kept, sift over it an eighth of an inch, no more, a very fine soil. Now spread over this bed a piece of burlap and sprinkle it freely. The burlap will retain the moisture and increase your chances of sprouting the seed successfully. Of course you must keep watch and not let the bed get dry. And again, you must watch for the first signs of sprouting and remove the burlap before the sprouts appear, for the young plants must have the sun. But after taking off the burlap you must sprinkle daily. By such a course as this, barring damage by unusual storms, you ought to succeed in growing as many plants as you need.

TRIMMING PEACH TREES.

An amateur peach grower inquires about the theory and practice of trimming peach trees. In peach-growing sections the trees are cut almost at will, and with two objects in view. These are to keep the fruit near the ground, for ease in gathering, and to make the fruit larger than it would otherwise be. Trimming the trees is one means of thinning the fruit. No other fruit tree will so well stand cutting. It is like the willow, which may be cut back severely and at almost any time. But, for all that, there is a choice time for trimming, the peach being like all other trees, in that the wounds will heal more quickly if the cutting is done in the early summer. The northern peach growers do not

trim as severely as our southern friends, and probably they do not trim enough. It is not advisable to let the trees grow so tall and slender that a sixteen-foot ladder is needed to reach the fruit. Top them back when they are still young and form a spreading top. And this top should be so thinned out that sun and air may reach all parts of the trees.

DYING FRUIT TREES.

J. C. G., an Illinois reader, is having trouble with his orchard. In the apple trees the bark rots near the ground, sometimes clear about the trunk, killing the tree. But with the cherry trees he finds numerous punctures in the bark, both on the body and limbs, and the trees die. With the apple trees there may be some fungous disease affecting the bark, or, if the trouble begins upon the south side, it may be what is called sunscald; or it may be body blight. But the results noticed often come from the attacks of the borer, and we would advise a very careful examination for that enemy. Digging out with the knife or the wire is the only sure remedy after the trouble begins, but there are various applications to be used upon the bark to prevent the deposition of eggs.

It is very important that trees be kept in a healthy, growing condition.

*Whatever a man soweth
that shall he also reap
you sure will double
your crop with good
Clean seed
The Hawk Eye Grader
is what you need
send for catalogue
and price today
The Maytag Co
Newton Iowa
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SPRAYING FRUIT TREES



is no longer an experiment, but a necessity. Prevents wormy fruit by destroying all insect pests and fungous diseases. Every farmer, gardener, fruit or flower grower should write for our free catalogue, describing 21 styles of Spraying Outfits, and containing a full treatise on spraying fruit and vegetable crops, and much valuable information.

WM. STAHL SPRAYER CO., Box 103 A Quincy, Ill.

Grow Prize Winning Fruit!

You can't be too careful in selecting your plants and trees. Upon your selection depends the quality and yield of your orchards and beds. Our 55 years experience has taught us how to produce prize winning fruit from hardy northern grown trees, whose tremendous yield has astonished people everywhere.

We sell only to the planter direct and save him the middleman's profit. You can now secure plants and trees direct from the nursery at prices less than your dealer buys them for.

Here's our get acquainted offer! One 2-year-old Concord grape, postpaid for 10c, or 1 dozen Senator Dunlap strawberry plants, the leading market variety, postpaid for 10c.

Write us anyway—we'll send you our booklet and price list—it is full of some good tips to fruit growers. These tips will help you show your neighbors some results that will make them jealous. Write today.

KELLOGG'S NURSERY, Box, 225 JANESVILLE, WIS.

WHITE PEARL SEED CORN

MEDIUM sized, splendid yielder, carefully bred and selected for 30 years. Never fails to mature. Will guarantee to grow. Subject to ten days' test for approval. Price, \$2.75 per bushel. Good grain sack included with order for two bushels or over. Do not go South for seed.

Reference—First National Bank of Steward.
L. D. HEMENWAY, Steward, Illinois.

SEED CORN

We can supply you with seed corn which will increase your yield.

Our SWASTIKA Seed Corn is pure bred, pedigreed, cross bred, FULLY GUARANTEED, suited to your locality, and tested to a six-kernel germinating test under the supervision of J. R. Steward, member of the American Breeders' Association, and one of the leading authorities on corn in the world.

Our booklet entitled, "The Development of the Corn Plant," which deals with the development of maize from its discovery to the present day will be sent free to any reader of this paper.

We refer to any bank or individual in this part of Illinois. Write Dept. D.

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Seed Corn Producers
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BIG SEED BOOK FREE

BEST NEW CROP GROWN SEEDS IN THE WORLD AT FARMER PRICES. In addition we give a whole lot of extra seeds with every order. OUR BIG ILLUSTRATED CATALOGUE OF FARM AND GARDEN SEEDS IS NOW READY. IT IS FREE TO YOU. A postal card will bring it to your door. Write for it today; also send the address of your neighbors who buy seeds. Address,

RATEKIN'S SEED HOUSE,
SHENANDOAH, IOWA

Hoyt's Evergreens

Grow 30 feet in ten years, 60 feet in 25 years. Cultivated "rooty" stock that has the growing habit. Our methods are correct, as shown by 40 years' success. Order direct from proprietors. Scotch Pine, 18 to 24 in. \$10 per 100, 2 to 3 ft. \$15 Norway Spruce, 18 to 24 in. \$15 per 100, 2 to 3 ft. \$25 White Pine, 18 to 24 in. \$15 per 100, 2 to 3 ft. \$25 Arborvitae, 12 to 18 in. \$10 per 100, 18 to 24 in. \$15 Other sorts and sizes; also carload lots very cheap. Stock grown at Scotch Grove, Jones Co., Ia. Address Hoyt Bros., Office at Monticello, Ia.

YELLOW ROSE

THE early corn. Official record, matured in 112 days. Yield, 94 bushels. Test, 62 pounds shelled. Deep grain; small cob. We have also Gold Mine, Silver Mine, Leaming, Yellow Dent, Wisconsin White and many others. Our corn sound. Tests 96+. Prices right. We have every kind of seeds. Illustrated seed book FREE. Write today.

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Seed Corn

THAT will grow; that will yield; that will grade and take premiums. Have the best seed corn that grows. All leading varieties Northern grown; fire dried. More and better for your money. Freight prepaid; circulars free. J. O. Winship, Pntnam, Ill.

SEED CORN Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped subject to your own test. Send for free catalog. L. C. Brown, LaGrange, Cook County, Ill.

SEED CORN.

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NICE re-cleaned clover and 1909 crop, at \$9 per bu. Re-cleaned Timothy, 1909 crop, at \$1.65 per bu., sacks, extra, 25c. Reference—First National Bank. Address MAHER & SON, PRESTON, IOWA.

KHERSON SEED OATS OUTHYIELDS common oats from 10 to 20 bu. per acre. Does not lodge or rust, just what you have been looking for. Sample sent to Farm Crop Dept., at Ames, was pronounced good. Samples and prices on request. Also free pamphlet on oats growing. Burgis Bros., Route 1, South Amana, Iowa.

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my free Illustrated Strawberry Book. THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.

SEEDS

Choice field and garden seeds. Good clover, timothy, etc. Ask for samples and catalogs.

E. J. HOMBERGER,
409-411 East Fifth Street, Des Moines, Iowa.

GLOVER SEED Timothy, Alsike, and other grass and farm seeds. Fancy new crop re-cleaned. Ask for prices. Catalog of all kinds of seeds free. Address GUTHRIE-LORENZ CO., 431 7th Street, DES MOINES, IOWA.

Strawberry Plants THE best varieties. Write for catalog. W. W. Thomas, THE STRAWBERRY PLANT MAN, ANNA, ILL. Rhubarb and Asparagus roots.

WHITE SEED CORN \$3.50 bu. until February 20th. H. T. Wiley, Lamoni, Decatur Co., Iowa.

NEW SEED OATS

Big Money in Oats

New Seed Oats. Big money in oats if you raise the right kind. Here's your chance to get them. Imported Canadian Seed Oats for sale; extra fine. Send for free sample. It speaks for itself. This same oats we sold last year in the United States and proved their merit and our statement that the farmers need a change of seed in this country. We make a specialty of growing extra fine seed oats on our big Canadian farm; new, clean land; no weeds. Have best known varieties. Regenerated Swedish Select went 116 bushels to acre this year.

Early New Market, Canada's favorite, 110 bushels to acre. Both of these are big, early yielders. I believe it will pay you to get a change of seed. Try some of these oats. The average oats are inbred and run out. Canadian Government Grain Inspector graded this grain No. 1 White. Have stiff straw, white berry, thin husk, enormous yielder. It is as easy to put in and harvest a big crop as a small one. The reason your oat crop is not bigger is because your seed is run out. This has been proven. Look at this. Taken from photograph of two stalks from Galloway Brothers' field, over 500 kernels to the stalk. Write early for free sample, or, send ten cents for packet. Will also send you free booklet entitled "Big Money in Oats and How to Grow Them," by Galloway Bros. and Prof. M. L. Bowman, former professor of farm crops Iowa Agricultural College. Information in this book is priceless. Get it free.

GALLOWAY BROS., 102 Galloway St., Waterloo, Ia.

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SPECIAL OFFER:

Made to build New Business. A trial will make you our permanent customer. Prize Collection—Radish, 17 varieties; Lettuce, 12 kinds; Tomatoes, 11 the finest; Turnip, 7 splendid; Celery, 8 best varieties; 10 Spring-flowering Bulbs—65 varieties in all. GUARANTEED TO PLEASE.

Write to-day; Mention this Paper.

SEND 10 CENTS

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PRICES BELOW ALL OTHERS

I give a lot of new sorts for trial with every order I fill. A Grand Big Catalog Illustrated with over 700 engravings of vegetables and flowers. Send yours and your neighbors' addresses. R. H. SHUMWAY, Rockford, Illinois

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Write now for my 1910 catalog, and if none of your family has received it—and you so state and give me the addresses of two other flower growers—I will send with it a coupon good for

Five Full Packets of Flower Seeds, your selection from 40 kinds I list at 3c each, also my booklet, "Culture of Flowers" all postpaid. I want you to try my Choice Seeds. MISS EMMA V. WHITE, Seedswoman
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New Crop
Iowa Grown
Re-cleaned
TESTED

and inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc., at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free. IOWA SEED COMPANY, Dept. D, DES MOINES, IOWA.



\$500.00 for A Corn Name

Shakespeare says there is nothing in a name; John A. Salzer says that in our age a good name is worth a lot. He backs up his statement by offering \$500 in Gold to the man or woman who will name his celebrated "Nameless" corn. Enter the Corn Naming Contest before it is too late.

"Nameless" Corn is not for sale this season. It is too scarce. But, by writing to-day and enclosing 4c in stamps, you will receive a sample packet. Then examine it and send in your suggestion. You may get this cash prize free.

You are soon going to need good, reliable farm and garden seed, anyhow, and will find it a big help to have as your guide.

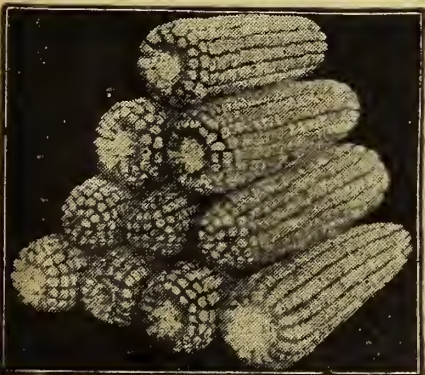
SALZER'S FREE SEED BOOK

This Mammoth Seed Book gets better every year and it was a mighty good book 30 years ago. It is the most reliable guide you can get for selecting seed corn, oats, grass and clover seed, potatoes, radish, onion, tomato—in fact, any kind of good seed.

We give away absolutely free 160 acres finest clover lands for the biggest yield in White Bonanza Oats. Catalog tells. Better send for it and carefully read pages 101-102, for details of this offer. Salzer's Seed will save and make money for you. Write for 1910 Catalog now—include 4c in stamps and try for the \$500 cash prize and the land prizes. You may win if you enter now.

John A. Salzer Co.

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Wisconsin's Greatest Corn

Best Early Corn of any color, white or yellow

Average yield 3 years in Wisconsin, whole state, 57 bus. per acre. Average all other varieties 33 bus. Yield at Wis. Ex. Station 98 bus.

Olds' Choice Ear Corn is the Best

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FREE BOOK



FREE BOOK

GREAT CROPS OF STRAWBERRIES AND HOW TO GROW THEM

Your Name and Address That's All

GOVERNMENT reports show that strawberries produce more dollars per acre and give quicker returns than any other crop. Our 1910 Strawberry Test Book teaches the Kellogg method of growing larger crops of better berries than can be grown in any other way. It explains how to fertilize and prepare the soil; shows how to prune, set and mate the plants. Every detail of the work is made perfectly clear, including cultivation, spraying, mulching, picking, packing and marketing. Growers who have this book say it is worth its weight in gold. You may have one FREE.

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Now is The Time to Buy.

Seed crop almost a failure. Prices bound to be higher later. For special low prices and free samples of our Pure New Crop Itcleanned, Tested Clover Seed. Have Timothy and all grass seed. It is to your interest to get our prices and samples at once. 1910 catalog free.

A. A. Berry Seed Co., Box 103, Clarinda, Iowa

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To this end good culture, and washing the trees each spring with a strong soap suds, lessens the danger both from fungous diseases and insects. Keep the surface about the tree clear of rubbish. After we do the best we can for our fruit trees, in safeguarding them, experience shows that we will lose a portion of them, more or less. We have to fight discouragement and keep on trying our very best as we get insight. The trouble with the cherry trees is evidently from some insect, as there are a number which attack the cherry in the way named. If it is some beetle which feeds upon the leaves it may be controlled by arsenical spraying. Watch carefully when spring comes and see if you cannot detect the insect at its mischief. As a rule, the battle is half won when we know the enemy, but it is hard to fight in the dark. But at a venture we would spray in early spring with a Bordeaux mixture carrying a poison content.

GROWING TURNIP SEED.

A Wisconsin reader asks if he can grow good rutabaga seed by setting out the roots this spring. We think he can do so with the greatest ease. But we advise that he select the good, choice roots, smooth and of even size, and also take those that have all of the neck, or stem end. The best and most vigorous shoots will come from the top, and if this has been cut off the shoots will be from inferior buds. The same rule holds good with the cabbage when planted for seed. The useless leaves forming the head should be cut off, but without injuring the center stem. Then you will get a quick, vigorous growth and a big yield. But you must watch as the crop begins to ripen, that the birds do not rob you. You may cut it a little green and put it in the barn loft and it will ripen perfectly in the shade.

WHY WE PRUNE.

To the Editor of The Homestead:

The whole trunk of young trees is naturally covered with branches; trees growing in the open likewise have the crowns extending to the ground; trees in the natural forest often have a stem 10 feet or more with no trace of limbs, and with but a small bunch of branches at the top. Nature rarely makes a mistake, so to understand why we prune, we must understand why these trees take these forms.

The bushy crown of the little seedling does not rise as the tree grows older, but a branch springing from the trunk one foot from the ground will never be either higher or lower, no matter what size the tree may reach. The purpose of these little branches is to furnish support for the leaves, which digest the food supplied to them by the roots. In order to digest the food, sunlight is necessary.

To keep alive for any period of time, a tree must have sunlight. Sunlight can reach all parts of a tree in the open, but as the tree grows larger the upper branches shade the lower ones and monopolize the sunlight. If the tree has plenty of room the lower branches grow horizontally to reach the light at the sides, forming the wide-spreading shade tree. If the tree is in the forest and light is cut off at the side, the tree will then grow up to reach the light, and the lower branches, shaded from above and at the sides, will die and drop off.

When a limb dies it is simply a dead peg of wood protruding from the trunk of the tree, and no new wood is formed upon it. As the trunk of the tree continues to grow it forms a sort of collar about it that compresses the dead limb very tightly; this pressure soon becomes so great that the decaying limb is so weakened that it is finally broken off by the wind, or by an ice storm. The ring of callous surrounding the hole then gradually widens until the wound is entirely healed.

When branches become useless because their leaves can no longer get sunlight, we can aid the tree in its natural process by cutting off the useless members. The advantage of artificial pruning over natural pruning is that it insures a small wound that heals over rapidly, instead of leaving a branch that may hang on for years to finally drop off leaving a



Maule's Seeds

ONCE GROWN ALWAYS GROWN

No matter whether you plant Onions or Pansies, you need the Maule Seed Book for 1910. All you have to do is send me your address on a postal card, and I will send you by return mail a catalogue of 192 large pages, full to overflowing from cover to cover with a list of the best Seeds, Bulbs, Plants, Small Fruits and Fruit Trees that will simply astonish you.

Do not think of ordering elsewhere before you have this great Seed Book.

It is FREE to every person who intends planting a garden or even a window box the coming season. Do not delay, send that postal with your address on it at once. Kindly mention this paper when you write. Address

WM. HENRY MAULE
1752 Filbert Street, Philadelphia, Pa.

Test Seed Corn Nature's Way Right in The Soil

Every kernel has the same opportunity to germinate and show its strength. The "New Ideal" Tester gives an absolute true and uniform test in the same kind of soil you plant your corn in and under the same conditions nature intended it should grow. Don't experiment on some artificial method that is different from nature.

We Want You To Try This

New Ideal Seed Corn Tester

We'll send you a "New Ideal" Seed Corn Tester and you can try it out with your own seed corn. If you find it doesn't do all we claim for it, you are not thoroughly satisfied with it, ship it right back to us at our expense. You can test 420 ears at a test or enough seed to plant 40 acres of corn. Every ear should be tested this year; the government experts pronounce the seed very low in vitality and much of it will not sprout at all. Don't risk weak seed, don't take a chance of losing hundreds of dollars, but get a "New Idea" Tester and test every ear before planting. You'll find this small investment the best you ever made.

Write Today to

THE ULBRICH SEED CORN TESTER CO.,

310 Walnut Street, ATLANTIC, IOWA.

12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruited, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS of HARDY "BLIZZARD BELT" fruits by next mail. Address

THE GARDNER NURSERY COMPANY, Box 202, Osgo, Iowa.

Tested Seed Corn

Guaranteed To Test 94 per cent or Better

I sell it subject to your approval, and ship it ear or shelled. Price \$2.50 to \$3.00 per bu. All the leading varieties, early, medium, and late. Specimen grains for testing, free for the asking. Write for them and see for yourself.

Box 25 HENRY FIELD SEED CO., Shenandoah, Iowa.

PURE-BRED, TESTED SEEDS

EVERY lot of seed that we put out is subjected to a vigorous germination test. Write for our catalog, explaining our Breeding and Testing Systems and WHY OUR SEEDS WILL GROW. Ames experts select and test our seeds.

THE SUMMERS SEED HOUSE, Malvern, Iowa.

Burpee, Philadelphia, Burpee-Quality

We shall be pleased to send THE LEADING AMERICAN SEED CATALOG. An elegant book of 173 pages, it tells the plain truth, and should be read by all who would have the best garden possible and who are willing to pay a fair price for seeds of the

SEED CORN

We are the exclusive agents for H. J. Goddard's "SILVER KING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern-grown seed corn. Clovers, timothy, alsike, mixed timothy and alsike, garden seeds, etc. Cat. free. The Adams Seed Co., Box 1, Decatur, Ind.

FREE We Will Send Upon Application to Every Farmer FREE

PROF. THOMAS SHAW'S Directions for Planting Garden, Flower and Field Seeds in our Catalogue of Home Grown Seed

NORTHERN SEED CO., Seed Growers.

16th St., Valley City, N. D.

SEED OATS Pure Kherson Oats

I HAVE choice, re-cleaned seed oats for sale—Champion, Kherson and Swedish Select. For prices write G. GREGORY, Ralston, Iowa. C. & N. W., main line.

GUARANTEED. Best by test. Treated for smut. Does not lodge or rust. \$1 per bushel, single bushel lots; 85 cents, 10-bushel lots or over. BAGS FREE. Aye Bros., Second St., Blair, Neb.

Hardy Alfalfa

IN its bulletin on Alfalfa the U. S. Dept. of Agriculture says:—"In addition to the hay crop, Alfalfa at two years adds \$100 to the value of every acre on which it grows."

"There is no state in the Union in which Alfalfa cannot be successfully grown." Three or four cuttings may be made every season. Alfalfa is one of the finest and richest of all pasture and hay crops for cattle, sheep, hogs and all live stock. A very valuable clover; greatly enriches the soil and prepares it for other crops. All varieties, Montana Grown, Turkestan, Grimm and Dry Land Alfalfa are fully described and priced in our

26TH ANNUAL CATALOGUE

Considered the most informing and complete, as well as the handsomest, seed catalogue published in America. Every one of the 140 pages is filled with information valuable to the seed planter. Entirely free from exaggeration both in descriptions and illustrations. No farm or garden is so large or so small that this book will not assist to greater profits. It is expensive and we cannot distribute them indiscriminately, but we send it free to those who wish to buy seeds.

Write for it today.

Trade Mark

Northrup, King & Co., Seedsmen,
415 Bridge St. Minneapolis, Minn.

Big Crops Awaiting Planters of NORTHWESTERN Trees

Selecting trees that you know are true to name is most important in starting an orchard; if the trees, when they come to maturity, bear the wrong kind of fruit, you've got to begin over again—all your work and time gone. "Northwestern" Trees are true to name, and have sturdy vitality.

Successful Western Orchards Are Planted With Our Trees

We can save you money and our guarantee protects you absolutely. Our book, "Iowa-Grown Fruits and Flowers," tells about Trees, Shrubs and Vines. Write for a copy—free.

NORTHWESTERN NURSERY CO., Box 1781, Boone, Iowa

Enchantress Aster

Finest floral novelty of the season. A magnificent large flower with long stem, of perfect shape and just the color of the noted Enchantress Carnation. Free bloomer and you'll like it. Really worth 25 cents per packet, but we desire to place our large, beautifully illustrated catalog of seeds and plants in the hands of every flower lover and will send it with packet of 50 seeds of Enchantress Aster FREE, if you mention paper. If you have had our catalog, please say so.

Iowa Seed Co., Dept. D1 Des Moines, Ia.

TREES THAT GROW

Apple 6c, Peach 5c, Plum 12c, Cherry 15c. Best quality, good bearers, grafted stock, not seedlings. Concord Grapes \$2.50 per 100. Forest Tree Seedlings \$1.00 per 1,000 up. We pay the freight.

GERMAN NURSERIES & SEED HOUSE, Complete line of Vegetables, Flowers and Farm Seeds. Our large illustrated catalog free. Also Free Sample packet of "New Concord" Tomato, the best of all tomatoes. German Nurseries, Box 114, Beatrice, Neb.

BUSHEL or Mangus Tomato 2c

Quality unsurpassed, produces fine large fruit. 200 seeds and 1910 catalog for a 2 cent stamp. Address

Guthrie-Lorenz Company, 431 7th St., Des Moines, Ia.

NURSERY SNAPS

20 Budded Peach Trees \$1.00. 40 Concord Grape Vines \$1.00. 8 Budded Cherry Trees \$1.00. They are strong, healthy, ready to grow. Catalogue and 25c due bill free. Write now for choice selections.

Fairbury Nurseries, Box 5 Fairbury, Neb.

TREES Fruit, Ornamental and Evergreen trees: Shrubs, Roses, Vines

Everything in the Nursery Line. Beautifully Illustrated Catalogue and Price List Sent FREE. Special: 45 Concord Grapes \$1. Nine Cherry trees \$1. 13 Peach trees \$1.00. Write us TO-DAY.

WRAGG NURSERY CO., Des Moines, Iowa.

Mammoth Clover Seed

A limited amount for sale this year. Grown on my own farm in Linn Co., Iowa; new crop; re-cleaned and inspected by Pure Food Commissioner. Guaranteed to be genuine Mammoth Seed. Price now, \$10 per bu., including new bags, when two or more bu. are taken. M. Taylor, R. 1, Road, Center Point, Ia.

When writing to advertisers please mention this paper

stub, which will appear as a loose knot when the tree is cut into lumber.

A second purpose of artificial pruning is to change the form of the tree. A lop-sided tree can be straightened. A short, bushy tree can be made to grow slender and upright by pruning off the lower side branches. Trees growing in the open are unfit for lumber because of the many branches. By pruning off these limbs when they are small a saw log of fair quality can be produced.

In order to prune intelligently we must understand the peculiarities of habit and growth of the trees we are working with. A hard maple naturally has a round top, while a white elm is shaped like a wine glass. To prune these two trees without regard to their natural form would be to take away their beauty as shade trees, or prevent their best growth as forest trees.

In removing large branches the injury to the tree is threefold: 1st, the balance of the tree is disturbed—in removing a branch weighing half a ton or more this is often a big factor; 2d, a large leaf surface is suddenly lost to the tree; 3d, a considerable opening is left for the entrance of fungi, which if once established in the heart wood will cause the decay of the tree.

If a tree forks into two large limbs that will eventually split at the crotch, one of the limbs should be removed. If a large limb on a shade tree obstructs a pretty view from the window it is often advisable to take away the obstruction. Unless there is a definite reason, large limbs should not be removed.

To prune trees intelligently, one must have constantly in mind an ideal form of the species he is working with, this form will vary with the purpose for which the tree is grown. Natural beauty will be the ideal of the landscape gardener, while a clean, straight trunk free of branches will be the main object of pruning in the wood lot.

THE POUNDER FLEXIBLE HARROWS.

The illustration which appears herewith is that of the Pounder Flexible Harrow, as manufactured by Mr. Geo. H. Pounder, of Ft. Atkinson, Wis. This harrow is not a new implement; it has been on the market for so many years that it would be a strange thing if every farmer did not know about it and its merits. It is made in sections and can be used up to twenty-four feet wide. It has been perfected at every point at which an experience of twenty years could suggest any change. That it has proven its value to farmers is indicated by such letters as that of Mr. H. H. Tidd, of Independence, Iowa, who wrote Mr. Pounder about a month ago, saying: "About fifteen years ago I bought a flexible harrow of you. Now I wish to add another section of five feet. What will you charge me for an extra five-foot section?" Ordinarily it would seem that a harrow which had served for fifteen years had answered every purpose, but it appears that the Pounder is not that kind. Dealers say, "They will sell all around other kinds." The Pounder harrow is advertised on page 37. For catalog and special price to the first buyer in any community address Mr. Geo. H. Pounder, No. 75, Ft. Atkinson, Wis.

In presenting their fifty-sixth annual announcement and price list Kellogg's Nursery, Box 225, Janesville, Wis., express their appreciation for the trade and courtesies of their many customers. The Kellogg plan is described by the proprietor and manager in the following language: "The business will be conducted along the same lines as we have followed in the past, viz., selling direct to the planter. We employ no agents. Anyone who states he is acting as agent for us is a fraud. Send your order direct to a reliable, old-established firm and save a large commission from the middleman. We offer a large stock of trees, plants, etc., of the best standard varieties, well grown and thrifty, handled and packed under cover, with no exposure to sun or wind. Packing is done by experienced hands under our personal supervision. We guarantee goods to arrive at destination in good order, after which our responsibility ceases." See page 20.

THE BARTELDES SEED CO., 812 Massachusetts St. Lawrence, Kas.

Seeds Free 5 PACKETS FOR TRIAL

We have arranged to give each new customer ABSOLUTELY FREE five regular sized packets of our Superior Guaranteed Garden Seed, your selection. Write today for 25c certificate which entitles you to these free packets and our big 100-page illustrated catalog so you can make your selection. Our seeds are the gardener's friend when tried. Write today.

A. A. Berry Seed Co., Box 203, Clarinda, Ia.

20 Evergreen Bargains 20

Demands of hundreds of our pleased customers of the past few years have compelled us to issue an annual bargain list. In years past no evergreen specialist has ever offered bargains equal to ours. This year we are going even our own bargains of previous years one better. No such values in Evergreens, as the ones contained in this advertisement, were ever offered to the buying public before. Read everyone of them carefully before selecting. At the very low price these bargain lots are offered, we can not change, divide or alter them only as described in this advertisement. Cash must accompany order.

Iowa's Leading Evergreen Specialist for 40 Years

Our forty years' experience in growing evergreens of all kinds, and shipping them into all states of the Union enables us to know exactly what variety and size tree will grow best in any particular locality. This experience has taught us that good, strong, transplanted evergreens ranging from 1 to 1½ feet high will give the best results in any territory.

FREIGHT OR EXPRESS PREPAID

To enable our patrons to know exactly what each of the bargains below will cost, delivered to his nearest express or freight office, we have included the shipping charges in the prices named.

BARGAIN PRICE LIST

Bargain No. 1	Price \$7.75	Bargain No. 12	Price \$.65
Will make a windbreak as quick as a Willow, an extra well-rooted lot, sure to grow. 100 Jack Pine, transplanted and root-pruned, 10 to 15 inches.		One-half bargain No. 11.	
Bargain No. 2	Price \$4.25	Bargain No. 13	Price \$10.00
One-half bargain No. 1.		120 extra stocky, once transplanted and once root-pruned, evergreens, well worth \$20.00. 24 Scotch Pine, 24 Jack Pine, 24 Norway Spruce, 24 Bull Pine, 24 White Spruce, 1 to 1½ feet.	
Bargain No. 3	Price \$2.65	Bargain No. 14	Price \$5.50
One-fourth bargain No. 1.		One-half bargain No. 13.	
Bargain No. 4, as advertised, 34 Norway Spruce, 34 Jack Pine, 32 W. Spruce, 1 to 1½ feet.	\$8.00	Bargain No. 15	Price \$3.00
Bargain No. 5	Price \$4.50	One-fourth bargain No. 13.	
One-half bargain No. 4.		Bargain No. 16	Price \$20.00
Bargain No. 6	Price \$2.90	50 Norway Spruce, 50 Scotch Pine, 50 White Spruce, all twice transplanted and twice root-pruned, well worth \$35.00, all 2 feet.	
One-fourth bargain No. 4.		Bargain No. 17	Price \$10.85
Bargain No. 7	Price \$1.00	One-half bargain No. 16.	
100 Jones Strawberries.		Bargain No. 18	Price \$1.10
Bargain No. 8	Price \$9.85	100 Norway Spruce seedlings, strong, 2 years old.	
100 Norway Spruce, once transplanted, once root-pruned, 1 to 1½ feet.		Bargain No. 19	Price \$10.00
Bargain No. 9	Price \$5.25	100 Larch, twice transplanted and twice root-pruned, strong, 2 feet.	
One-half bargain No. 8.		Bargain No. 20	Price \$9.00
Bargain No. 10	Price \$2.95	Well worth \$18.00. 12 Hard Maple, 4 to 5 feet, 24 American Elm, 5 to 6 feet.	
One-fourth bargain No. 8.			
Bargain No. 11	Price \$1.00		
100 Senator Dunlap Strawberries.			

GUARANTEE: We guarantee the above twenty bargains to be strictly first class and highest quality in every respect. We also guarantee the stock to reach you in good growing condition. See our catalog for replacement guarantee.

REFERENCE—The Homestead Co., or any bank in Franklin County.

Special Offer:

We have about 50,000 SCOTCH PINE Evergreens, 2½ to 3 feet, that have been transplanted three times and root-pruned three times. They are the very best lot of Transplanted Evergreens in Iowa. While they last, 25c each, 50 for \$10.00, 100 for \$16.00, 500 for \$70.00, 1,000 for \$125. Buyer pays freight.

Get Our NEW CATALOG for Full Descriptions.

Our new catalog is chock full of bargains on guaranteed Apple Trees, Plums, Cherries, Small Fruit, Shade Evergreens, Roses and Flowering Shrubs.

Bristow Nursery Co., 210 Bridge Street Hampton, Iowa.

FOR 41 YEARS IOWA'S GREATEST EVERGREEN SPECIALIST.

Armstrong's Corn the Best

Proven at Ames College. Early Yellow Rose, Unequaled. Beats Reid's Yellow Dent. Bigger Yields. A Week Earlier. Dries Out Quicker and Shells Out as Much Grain. Bulletin 55 says 97 bushels per acre in field cultivation. Ripe Sept. 4th. Adapted to Middle and Northern Iowa. How is that for a standard variety? Best All Around Kind for Big Sound Crop. Have also 85, 90 and 100 day kinds. Our Salamander is the earliest big white. Have beside Silver Mine, Gold Mine, Leaming, Yellow Dent, Wisconsin White and many others. Quality the best. Crop sound, test O. K. 95% and better. No early freeze. Got ripe and dry. What more do you want? Prices \$1.50 per bushel and up. Buy from the Pioneer Seedmen, of Southwestern Iowa. Our 20 years experience is at your service. We are Growers. We have plenty of corn and can suit you. But can't tell all here. Send for free catalog and samples to try.

J. B. Armstrong & Son, Shenandoah, Iowa

PETTY BROS.' 10,000 BUSHELS

PURE BRED SEED CORN hand picked, graded and tested from 25,000 bushels, yielding 75 to 90 bushels per acre this year. Tests 98 to 100 per cent.

Petty's Early Dent—Yellow High Grade \$2 per bushel

Petty's Eclipse—Yellow Extra Select \$2.75

Clay County White Crated Ears \$4

RAISED ON OUR OWN FARMS **PETTY BROS., Box 4, Liberty, Mo.**

OATS NEW SEED OATS.

Big money in right kind of oats. Here's your chance. Imported Canadian seed oats, raised on Galloway Brothers' big farm in Canada. New, clean land. Regenerated Swedish Select went 116 bushels to acre; Early New Market 110 bushels to acre. Farmers who bought this seed from us last year raised as high as 75 to 100 bushels in this country, and found out their old seed was inbred and run out. Change your seed. Try some of this new seed. Send for free sample, or 10 cents for large packet. Will also send our free booklet, entitled "Big Money in Oats and How to Grow Them." Galloway Bros., 102 Galloway St., Waterloo, Ia.

Strawberry Plants Senator Dunlap, 75 cents per 100, prepaid. Other varieties; circular free. C. J. Mackey, West Liberty, Iowa.

When writing please mention this paper.

CLOVER and ALFALFA

Seed. Guaranteed pure—absolutely no weed seeds. Sold subject to State and National test. Write for free samples and special prices.

HENRY FIELD SEED CO., BOX 25, SHENANDOAH, IA.

The PLATTE VALLEY RED CEDARS

GROWN from seed, have no equal for wind-breaks; hardy and vigorous anywhere. Write for price list.

L. E. GARLAND, AFTON, IOWA. Successor to Garland & Fowler.

When writing please mention this paper.

AN EXPOSITION COMPANY.

The United States Agricultural and Industrial Exposition Company, with a capital of \$1,000,000, has been incorporated for the purpose of holding an annual permanent American exposition, in one of the states near the center of population. A number of cities are in correspondence with the managers of the exposition offering inducements to have the exposition located with them, asking that their claims be considered before a definite location is adopted. This matter will be decided at the next meeting of the directors.

The objects of the company are: To organize, and to hold The United States Agricultural and Industrial Exposition, fairs, exhibitions and meetings for the promotion, improvement of and education in the arts, manufactures, and products of the soil and mines, and by exhibiting displays of agriculture, floriculture, horticulture, forestry, animal husbandry, mechanical and domestic arts, to illustrate the general development, resources, products and advantages of the United States, Territories and Insular Possessions. The board of directors are:

Hon. Albert E. Brown, treasurer New York State Fair, and secretary New York State Breeders' Association, Syracuse, N. Y.; I. D. Graham, editor the Kansas Farmer and secretary of the Kansas Improved Stock Breeders' Association, Topeka, Kan.; Geo. S. Walker, secretary of the National Wool Growers' Association and secretary of the State Board of Sheep Commissioners, Cheyenne, Wyo.; Jos. E. Wing, agriculturalist and secretary Dorset Horn Association, Mechanicsburg, Ohio; Dr. B. F. Dixon, auditor for the state of North Carolina, Raleigh, N. C.; Chas. W. Bush, counselor-at-law, Wilmington, Del.; James Handly, horticulturist and publisher, Quincy, Ill.; Robert P. Lyon, Hartford, Conn.; E. Alexis Taylor, director general of the company, Hartford, Conn.

The advisory board, numbering over two hundred, have been selected for their especial fitness and knowledge of the department for which they have been chosen.

Appended are the members of the board, division of horses:

David Roberts, D. V. S., chief veterinarian, Waukesha, Wis.; Dr. M. E. Knowles, assistant, Helena, Mont.; I. B. Nall, American Horse Breeders' Association, Louisville, Ky.; Chas. C. Glenn, secretary French Coach Horse Registry, Columbus, Ohio; Samuel Taylor, secretary Ohio Breeders' Association, Columbus, Ohio; Geo. W. Stubblefield, secretary Percheron Society of America, Chicago, Ill.; W. K. Knight, secretary the American Trotting Association, Chicago, Ill.; L. M. Monsees, of the American Mule Breeders' Association, Smithton, Mo.

It is the intention of the exposition to make the department of horses one of the leading and most attractive features of the fair. Recognizing the importance and value of the horse as a drawing card, they will also endeavor to bring out all the splendid qualifications he is entitled to. They propose to broaden out and extend the interest of the trotting horse as a show horse, giving him all the prominence and benefits of the show ring that he so ably defends upon the track.

There is an almost irresistible fascination in the breeding and owning of horses simply for themselves, without any ulterior motive, but to do certain things; but there is a greater pleasure when he is so bred as to demonstrate his superiority over other horses in the actual conflict of the race track and show ring.

The exhibition proposed will be purely American and in no sense will it be of an international character. In addition to having in the ring all types of the show horse, the exhibition will create entirely new classes for the heavy draft horse.

Valuable premiums, medals and diplomas will be offered for each class and the classes will include America's finest draft stallions in Percherons, Belgians, Clydesdales, as these types attract the keenest interest at all expositions.

The recent horse show at New York where there were nearly two thousand entries and one hundred and fifty-eight classes, is strong evidence that the interest in the horse is not on the wane, but that he is the reigning favorite in all such exhibitions. At this same exhibition there were over eight hundred specimens of thoroughbred animals. At one time in the show ring before the judges there were animals valued at over a million dollars.

This department of the exposition will be in charge of the most competent authority on animal industry it is possible to procure. Eminent professors, instructors and veterinarians will

be in daily attendance at all times to deliver free lectures.

Judging will be another feature to have the special attention of the managers. To obviate as far as possible any friction between judges and exhibitors, the exposition will inaugurate a new and original method of selecting judges. It is their purpose to let each association choose a judge from among their classes, believing that a man who has bred and is familiar with a certain breed, is better qualified to judge that special class. This method the exposition believes will not only relieve them of much possible criticism, but will be more satisfactory to the exhibitors generally, if they can have a voice in the selection of their own judges.

Still another feature and a much neglected one at many fairs and expositions, will be the prominence given to the mule, the burro and donkey. Few people realize there are nearly four and a half millions mules in this country, with a farm value of \$433,000, 000; or that the mule has a per capita value of \$12.20 over his more showy compeer, the horse.

Mule races, something never attempted under set rules as in horse races, will be held, showing that the animal with the lightning heel has a place before the sulky as well as the plow.

CURRENT MAKES SALE UNDER DISCOURAGING CONDITIONS.

Mr. T. J. Current, of Hildreth, Neb., was unfortunate in his sale on January 27th, train connections being such on this day breeders could hardly get in and make the trip under three days. However, an average of \$30 was made, selling to the local crowd mostly, in a community where no corn was raised the past season. The top price paid was \$95, Mr. Wm. Frerichs, of Hildreth, Neb., paying that sum for Lot 1, Beautiful One. Lot 2 went to Mr. Andrew Bang, of Minden, Neb., at \$50. Mr. Earl Gray, of Atlanta, Neb., secured Lot 5, the choice show gilt, at \$48. Other buyers were Messrs. Will Gray, Atlanta, Neb.; E. R. Danielson, Osceola, Neb.; Henry Gausaman, G. Polfus and W. F. Manning, of Hildreth, Neb.; Emmett Gray, of Upland, Neb., and D. F. Prine, of Arapahoe, Neb.

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It was the first and still is the only genuine. All other "tongueless" discs are weak imitations of the Detroit-American— are make-shifts— old-style discs with tongue cut off and trucks stuck under in front. Remember, that the Tongueless Disc is sold only by us, direct from factory to farm. Let no dealer or mail-order man give you an imitation. We sell to no dealers— only direct, at low factory price. Get our book. Then you'll be prepared to tell all the others that you can do better.

Don't get into another season without this saver of horses— this saver of bother—this better working harrow. Does away with the tongue-thrashing and jamming of horses, that pulls them down or puts them out of use entirely, just when most needed.

Just let us send you one on

30 Days' Free Trial—No Money—No Deposit
Cash or Credit—Take Your Choice

We want to quote you a price that you will find mighty interesting and we want you to try this harrow entirely at our risk. Use it a month—or even more. If it does the work as we say it will, send us the price—if not, return the machine. We take care of the freight in both cases; the test won't cost you a nickel.

Big, Money-saving Book Free

Not only best Harrow book published, but best book on Manure Spreaders—the famous Detroit-Americans at cut prices, best book on Cultivators—all at lowest factory prices and on same liberal terms. Send coupon or postal for this guide to the right harrow at the right price.

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"The Hotter the Spark the Better the Combustion," is a well known principle of Gas Engineering. Batteries give out quickly, Spark Coils eat up current, and thereby cause endless expense and trouble—just when needed the most. Poor ignition from batteries causes misfires, slow ignition or combustion and thereby increase your fuel expense by one-third to one-half. You can save this wasted fuel, get the maximum power, by installing

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Delivers a white-hot spark for a lifetime. This device is a simple, fool-proof dynamo. It will continuously deliver an intensely hot spark with from 3 to 15 volts behind it (adjustable to suit). We don't know how long the Auto-Sparker will last, for those put out ten years ago are still "delivering the juice"—few have required repairs or replacements. See your dealer or write direct for prices and money-saving details. Learn how to run your engine for one-half to one-third your present cost; also how to charge storage batteries for ignition and lights.

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MOTSINGER DEVICE MFG. CO., Box 161, Pendleton, Ind.



Attached to Stationary Gas Engine

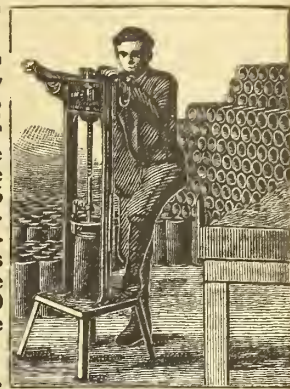
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In five years this machine has revolutionized disc harrowing on the farm—revolutionized the harrow business—and made a reputation for itself that no other disc has ever made. **All-steel frame.** Hard-maple bearings take up end thrust; sections do not run together in the center; rigid steel adjustable standard; pipe oilers away from dirt and most convenient; shifter bars and adjustable bumpers; double levers; indestructible steel spools between blades; steel sections; no breaking.

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FEWER FARM ANIMALS AND INCREASED VALUES.

A deficit in the supply of live stock available for food and the big bulge in the valuation were brought to light by the annual report of the department of agriculture, made public recently. This report indicated the prosperity of the American farmer by placing the total value of all live stock on the farms, Jan. 1, 1910, at \$5,138,486,000, as compared with \$4,525,259,000 a year ago, an increase of \$613,227,000.

A decrease of 7,333,000 in the number of cattle, hogs, and sheep on the farms and ranges of the United States, Jan. 1, 1910, as compared with the number on Jan. 1, 1909, and an increase of \$177,185,470 in the total value of these animals is shown.

Beef cattle, of which there were 47,279,000, were valued at \$19.41 a head, making a total of \$917,685,390, as contrasted with \$863,638,710 a year ago, when there were 49,379,000 in the hands of the farmers. The average price of \$19.41 is the highest on record and \$1.92 higher than a year ago. There were also 21,801,000 milk cows, valued at \$35.79 per head, which brought the total number of cattle to 69,080,000, against 71,090,000 a year ago.

Hogs also were valued at more money than ever recorded before, their average value being placed at \$9.14, or \$2.59 higher than a year ago. As there were 47,782,000 head valued at that figure, the total valuation was \$436,727,480 as compared to \$354,002,850 a year ago. The 56,084,000 sheep (excluding lambs) on the farms and ranges were valued at \$6.55 per head, or a total of \$367,350,200, against \$192,367,120 a year ago, when the number on the farms was 1,132,000 head smaller and the average value sixty-five cents lower.

The total value of meat animals (horses, mules, and milk cows being

than in the preceding year, the total being 21,040,000, against 20,640,000 a year ago, an increase of 400,000. There was also an excess of 70,000 mules, or 4,123,000, as compared with 4,053,000 a year ago. The valuation of horses was placed at \$108.19 per head, or a total value of \$2,276,333,000, against \$1,974,052,000 a year ago.

Following are the number of horses in the United States for undermentioned years with total valuations and yearly average prices:

	Number.	Valuation.	Av. per head.
1910	21,040,000	\$2,276,333,000	\$108.19
1909	20,640,000	1,974,052,000	95.64
1908	19,992,000	1,867,530,000	93.41
1907	18,718,578	1,510,899,906	80.72
1906	17,718,578	1,510,899,906	80.72
1905	17,057,702	1,200,310,020	70.37
1904	16,736,059	1,136,940,298	67.93
1903	16,557,373	1,030,705,959	62.25
1902	16,531,224	968,935,178	58.61

The number of farms, including ranches, and the total valuation of live stock in the United States for ten-year periods, from 1850 to 1900, as compiled by the department of agriculture, follow:

	Number of farms.	Valuation of live stock.
1900	5,739,657	\$2,228,123,134
1890	4,564,641	2,418,766,028
1880	4,008,907	1,576,917,556
1870	2,659,985	1,822,327,377
1860	2,044,077	1,089,329,915
1850	1,449,073	544,180,516

The number of persons engaged in agriculture, according to ten-year census returns from 1900 back to 1870, follow:

1900	10,438,219	1880	7,713,875
1890	8,565,926	1870	5,922,471

These figures throw light on some of the causes of the increased cost of living.

BALMAT'S DUROC JERSEY SALE.

Messrs. O. T. Balmat & Son, of Mason City, Iowa, held a very successful sale of Duroc Jersey bred sows February 2d. There was not a large attendance, but a large proportion of those present were breeders from a distance. These showed their appreciation



The Ozarks have made the Missouri hen famous

And the Missouri hen is making her owner prosperous. "Conditions for poultry raising in the Ozarks are perfect" is the opinion of an expert from the poultry department of the Agricultural College at Cornell.

The same expert, after a most thorough investigation chose a spot in the Ozarks, but a few miles from St. Louis, as an ideal location for the extensive poultry farm of the Yesterlaid Egg Farms Co.

Picking up a handful of loose soil from a brooder he was building, he said, "This contains the exact proportions of sand and loam to make a perfect soil for poultry. Our drainage is splendid, gravel abundant—clear, pure water plentiful and climate just right for hens to thrive and lay regularly. We are so near to market that the eggs we get today are served on the tables of St. Louis tomorrow and we get top notch prices for them."

What this expert said is true of hundreds of other places in the Ozarks.

It is not necessary to go into poultry raising on a large scale—neither is it necessary to devote all of the farm to poultry.

A hundred or so hens, if properly cared for and not allowed to scratch for themselves and lay where they please, will pay well and will prove a profitable part of the farm income.

Dairy cows, hogs, sheep, mules and fruit will also produce large profits under proper care.

Good land for such a farm costs only \$5 to \$25 an acre.

If you will get a small farm in the Ozarks, set out an orchard of well selected varieties, lay out a vegetable garden and berry patch, stock the farm with poultry, cows, pigs, sheep and mules, grow the feeds and grasses you need for them, you will realize a greater profit than you possibly could make on a big grain farm elsewhere.

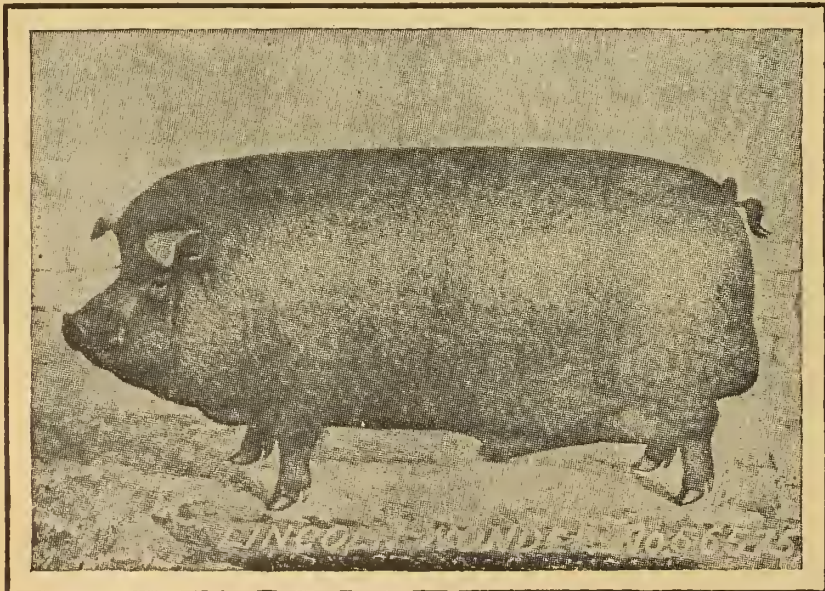
Furthermore you would live in a beautiful country, in healthful surroundings, free from malaria and away from severe cold and snow. You would be within a few hours of three large markets—St. Louis, Kansas City and Memphis and would have advantage of good local markets, schools, churches, etc.



It will be worth your while to look farther into this. We have some attractive books full of plain facts about the Ozarks. They will interest you. Write for free copies today.



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Lincoln Wonder, one of the great sires in service in the herds of Messrs. Geo. Briggs & Son, of Clay Center, Neb., and Con McCarthy, of Henderson, Neb. He has proven one of the most valuable sons of Ohio Chief as a sire. His progeny are strongly represented in their forthcoming sales of February 24th and 25th, as well as a number bred to him. The catalogs are now ready and may be had upon application, mentioning The Homestead.

excluded) was according to these figures, \$1,587,854,150, as contrasted with \$1,410,668,680, Jan. 1, 1908, and the number was 1,587,854,150 against 1,416,713,120 a year ago.

Following table shows the number of cattle (including milk cows), hogs, and sheep (including lambs) in the United States, Jan. 1, of the undermentioned years, as furnished by the agricultural department:

Year.	Cattle.	Hogs.	Sheep.
1910	69,080,000	47,782,000	57,216,000
1909	71,090,000	54,147,000	58,064,000
1908	71,267,000	56,084,000	54,631,000
1907	72,533,996	54,794,439	53,240,820
1906	66,861,522	52,102,847	50,631,619

Yearly average prices of live stock, except horses, on the farms on Jan. 1, of the undermentioned years, were reported as follows:

	Milk cows.	Other cattle.	Hogs all ages.	Sheep.
1910	\$35.79	\$19.41	\$9.14	\$4.08
1909	32.26	17.49	6.55	3.43
1908	30.67	16.89	6.05	3.88
1907	31.00	17.10	7.62	3.84
1906	29.44	15.85	6.18	3.51
1905	27.44	15.15	5.39	2.82
1904	29.21	16.32	6.15	2.59
1903	30.21	18.45	7.78	2.63
1902	29.23	18.76	7.03	2.65

More horses were held on the farms

of the excellent character of the offering by taking the thirty-two head sold at an average of \$60.53 each. Below we give a complete list of the sale:

Lot.	Price.
1. S. D. Mackrill, Platte, S. D.	\$105.00
2. Same	150.00
3. J. O. Reece, Eldon, Iowa	95.00
4. John Roskamp, Kanawha, Iowa	82.50
5. Clarence Beck, Nora Springs, Ia.	51.00
6. Cahill Bros., Rockford, Iowa	67.50
7. J. S. Moore, Arlington, Iowa	52.50
8. C. H. Mensch, Mason City, Iowa	42.50
9. S. J. Butts, Mason City, Iowa	85.00
10. H. W. Andrews, New Providence, Iowa	55.00
11. J. L. Straw, Hampton, Iowa	87.50
12. Homer Bailey, River Falls, Wis.	49.00
13. Clarence Beck	42.50
14. John Roskamp	55.00
15. C. J. Swale, Sumner, Iowa	51.00
16. W. H. Kennedy, Lime Springs, Ia.	55.00
17. Cerwinski Bros., Rockford, Iowa	45.00
18. C. J. Jansen, Meservey, Iowa	60.00
19. T. P. Cassen, Odin, Minn.	45.00
20. W. A. Meyer, Castalia, Iowa	50.00
21. Leahy Bros., Wadena, Iowa	55.00
22. H. H. Calahan, Lime Springs, Ia.	42.50
23. A. I. Conklin, Radcliffe, Iowa	37.50
24. Frank McGrother, Lawler, Iowa	41.00
25. Cahill Bros., Rockford, Iowa	37.50
26. R. M. Skillen, Greenc, Iowa	67.50
27. C. H. Mensch	45.00
28. Lewis Anderson, London, Minn.	35.00
29. M. C. Mattern, Wesley, Iowa	60.00
30. Homer Bailey	52.50
31. L. F. Atwater, Bangor, Wis.	65.00
32. Gorman & Cahill, Carterville, Ia.	52.50
Sub. for 21. Homer Bailey	52.50

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bought in 1910. Write today for full particulars, and ask for our FREE SPREADER BOOK, which proves that the Appleton Manure Spreader is as strong as steel and oak can make it; so simple that any boy who can drive a team can run it as well as any man; and so effective in operation that it never bunches the manure, but pulverizes thoroughly and distributes evenly from the beginning to the end of the load.

APPLETON MFG. CO.
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Plow and Harrow at Same Time

This plow attachment pulverizes and levels the soil as it is fresh turned and moist, thereby making a perfect seed bed before the ground gets lumpy and dries out. It is light running and requires no more horses than for ordinary plowing. Made for sulky and gang plows.

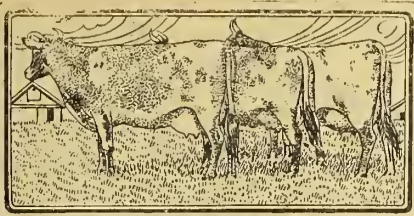
The cutting blades are made of the best plow steel, with plenty of curve to the blade so that it produces a draw cut. These blades are self-cleaning and cornstalks or trash cannot lodge.

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Is destined to become the greatest farm labor-saver of the age! It does the work far better and easier than the old drag, because of the draw cut blades, and also because the ground is easiest pulverized and leveled when it is fresh turned. When your plowing is done, your harrowing is done! By all means SEE this great machine attachment. It will save you dollars, time and trouble. Ask your dealer to show it to you today. If he hasn't it, write us today and we will see that you are supplied.

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DAIRY



ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

Creamery and Cheese Factory Inspection

By Thomas Corneliuson, Dairyman of U. S. Dept. of Agriculture

DURING the last thirty years a great development of the dairy industry has taken place in America and other countries. Advancements have come fast upon one another—so fast, in fact, that men who have refused or neglected to "keep up with the procession" have soon found themselves far in the rear. No region, perhaps, has shared to a greater extent in this development than Wisconsin. Here, from a small beginning made by the pioneer dairyman, the dairy industry has advanced to first place among our agricultural interests, and now annually yields products to the value of more than sixty-eight millions of dollars. Formerly, Wisconsin butter and cheese were not so well regarded as the butter and cheese produced in some other states, notably New York. But today, in the best markets, Wisconsin dairy products are considered equal, if not superior, to the dairy products of any other state.

These excellent results have not been obtained through accident or chance. Several potent forces have been at work, some of them almost from the beginning of the industry—forces such as the dairymen's association, the experiment station, the dairy school, the dairy and food commission, the butter makers' association, the cheese makers' association, and last, but not least, the press. In the final analysis, however, it will be found that the most potent force in this development has been men. Men of influence and standing, men of intelligence and character, men of initiative and industry, have stood shoulder to shoulder in this development. Had it been otherwise, the dairy industry of Wisconsin could not have reached its present standing.

The subject of this article concerns men—a class of men occupying a position that belongs entirely to our present day and conditions, namely, the inspectors. Dairying had not progressed very far before its leading men recognized the necessity of taking instruction direct to the dairymen and to the cheese and butter makers. As early as the year 1888 two traveling instructors were put to work among the cheese factories and under the direction of the State Dairymen's Association. The work of these instructors was of such a character that a demand for more men of the same kind soon became general. This demand was met so far as the available funds permitted. Later on, in 1900, a creamery instructor was put in the field. The work of these men was efficient. But numerous instances occurred where men sadly in need of instruction failed to realize their own needs and refused to be instructed. It was evident that the men who assumed such an attitude were an obstruction to progress and needed a prod more than instruction. Consequently, laws regulating the sanitary conditions and other matters of creameries and cheese factories, were enacted in 1903, and a creamery inspector was authorized; furthermore, the traveling instructors were given police power. Thus creamery and cheese factory instruction became changed to creamery and cheese factory inspection and the men identified with that work become known as creamery or cheese factory inspectors.

It is not my purpose at this time to weigh or consider the value of the work of the traveling instructor and inspector. I am confident, however, that when a true history of dairy development in Wisconsin is written, the

position given to the traveling instructor and inspector will be an honorable one. There are men, to be sure, who like to disparage the work of the inspector. But these men belong either to one or the other of two classes; first, those who have felt the authority of the inspector—the authority or power of the state; second, those who are ignorant of the work, of the difficulties, and of the disappointments that the inspector faces daily. It is a fact that the most capable and best informed creamerymen hold the inspector in highest esteem. It is also a fact that a large number of our best butter makers and cheese makers aspire to the position of inspector. These two facts prove that the inspector is well regarded by those who are competent to judge of his worth.

That many of our best butter makers and cheese makers should aspire to the position of inspector is well, for the creameries and cheese factories are the natural recruiting ground of inspectors. A man possessing a thorough knowledge of dairying and having a long and varied experience as a factory operator, is better qualified to cope with the various problems met in the field than a man having a short experience and perhaps, only a smattering of dairy knowledge. It should be remembered, however, that neither knowledge nor experience will suffice unless the aspiration springs from the right motive. If it rests upon the belief that the position is a sinecure, the aspirant is indeed to be pitied. On the other hand, if the aspiration rests upon a desire to serve and to assist the dairy industry it is worthy and laudable. And the man who has such a desire will become a successful inspector, provided he has the necessary knowledge and experience.

The duties of the inspector are prescribed by law. But the inspector who never did anything but that which the law compelled him to do would surely have a shallow and narrow conception of his position; and if his only object was to catch offenders, important as that is, his usefulness would be much impaired. From the nature of his position, the inspector who possesses ordinary powers of observation will soon acquire considerable circumspection. He sees all dairy conditions from the poorest to the best. He becomes familiar with many and various methods of creamery and cheese factory management. His view becomes wider than the views of those who have not had a similar experience. He should, therefore, be able to render valuable service to the dairy industry by giving friendly counsel to those who need it and desire it; by pointing out defects; and by disseminating knowledge of the best and most advanced dairy methods. In such service there is to be found true satisfaction. There is a tendency among men to follow the beaten track—to do their work from day to day in the same manner without any thought as to whether there is a better way or not.

It should be remembered, however, that if the inspector is to accomplish anything of lasting value, he must have hearty co-operation of creamery men and butter makers. Those who think that the inspector exists chiefly for the purpose of doing the tasks that they themselves find irksome or disagreeable, are mistaken. Again, those who assume the position of a cynic and, when the inspector comes around, stand aside watching for mistakes and things to criticize, are simply blocking

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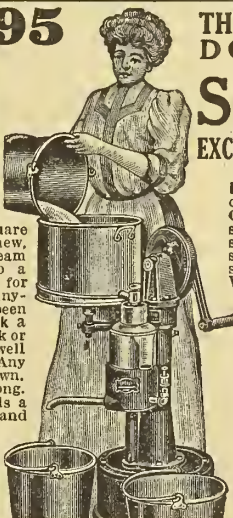
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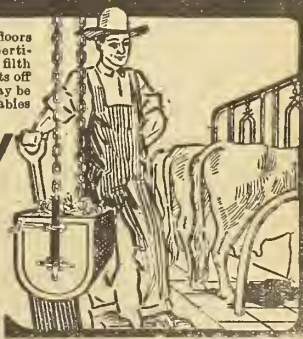
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No matter how hard you try you can't make an old stable with dirt floors and wood partitions sanitary—you can't keep it clean and sweet. Wood partitions gather dust and disease germs. Dirt floors with their tramped-in filth should never come within a stone's throw of your milk pail. When a cow gets off her feed and her milk yield falls below normal, look to your stable. It may be as clean as you can make it; but that may not be clean enough. Equip your stables

The Louden Way

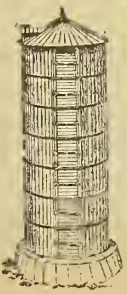
then profits will not fall off. The cow that is best treated gives the most milk—the best milk—the richest milk. She has a heap of cow sense. She appreciates light and air, and she will see that you get your money back for making her home modern. If you will put a Louden Litter Carrier to work behind her, your boys or your man will clean the barns in less time and with less labor. We have been fitting up barns for 50 years. We will be glad to give you the benefit of this experience by suggesting what you need for yours, without any expense to you. Send for catalog, tell number of cows you have and submit rough sketch of stable. LOUDEN MACHINERY COMPANY, 609 Broadway, Fairfield, Iowa.



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Panel Shrinkproof SILO
We can't begin to tell you all the money saving details here—but our book on Silos, Silage and Economical Feeding tells. Don't think of deciding on any silo until you have read this book and have done some thinking about what our exclusive points of merit mean to you.

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Note—We are distributors in the Northwest for the celebrated Climax Ensilage Cutter.

their own road to progress. Therefore, let us all take hold and do what we can for the advancement of dairying.—

(Paper read before Wisconsin Dairy School Alumni Association January, 1910.)

The Marketing of Butter

By Math. Michels, Wisconsin

OF LATE years much has been said and written concerning the poor quality of butter found in the markets and about the unsanitary conditions under which the raw material is produced. I firmly believe much of this talk is wholly unfounded, and to many of the old butter makers who wear their thinking caps and are still active in the business it even sounds ridiculous. Much of the clamor has been caused by ignorance and a part of it by design of men who have wished to raise clouds of dust in which to market their butter and in which to disappear before the check reaches the creamery treasurer.

The first-mentioned class is made up of men who mean well, but who are ignorant as to the quality of butter on the market at the present time. They have never been shown much of anything but "off goods" in the market. Again many of these men have had but little or no experience in actually marketing butter and in collecting cash for the same. But very few could tell except from hearsay what the quality of butter was in the market fifteen years ago.

Those of the second class are the commission men and jobbers in butter who are meeting with more and more competition from creamery men going into the markets and selling direct to the retail and wholesale trade. The competition between themselves is also more and more keen each year. Not only this, but the consumer is getting more critical—in fact, is getting to be a much better judge of the quality of butter and therefore makes it harder to sell butter that is not up to standard in quality.

When the commission or jobbing men go out to sell they not only tell how good the butter is, but sometimes also tell how cheap they can sell it. In this connection I will refer to a little experience I had in Milwaukee some ten years ago. I was selling butter in tubs and prints to one man for Elgin price f. o. b. my home station. While in Milwaukee I happened to go into a grocery store to sell the grocer some butter. I found that he handled my make and bought it from my agent at Elgin price. I knew that this agent had to pay twenty-seven cents per hundredweight for freight and in addition the cartage from the freight depot to his place of business and from there to the grocery store. I investigated and found that the weights on my tubs had been marked up two pounds. The weight and brand were always printed on my tubs before they left the creamery. When I asked the agent for an explanation he told me it was simply impossible at that time to get above Elgin price and he was forced to raise the weights in order to come out even. It will be seen that there are dealers in butter and cheese who do not depend upon a legitimate profit, but rather upon how much they can deceive in weights and quality.

Such deceptive practices have led to paying according to score. The buying of butter by score simply adds more dust to the cloud and never will be successful until we get men to do the judging who have no financial interest in placing the score.

It is true that many creamery operators know little about market conditions, about the selling of butter and for that matter the selling of cheese. It is to be regretted that this most important branch of the creamery business has never received more attention from the dairy schools. This I say merely to remind the schools that the matter of marketing should receive more of their attention. The average quality of butter today, however, is not only better, but is more uniform than ever. For this we owe much to our dairy schools, agricultural colleges and dairy and food commis-

sions. If there were no improvement in the quality of our dairy products do you think the states and nation would go on spending hundreds and thousands of dollars annually without result? I think not.

The judges as a whole are more critical and give a lower score on the same faults today than they did five years ago. For instance, where not many years ago a cut of from one to two points was all that was taken off for badly mottled butter they would now take off as much for the slightest appearance in unevenness of color. Anyone I believe who is willing to investigate will find that nearly all of the talk about the poor quality of butter comes from men who have axes of their own to grind. The dealers want an argument to buy cheaper; a few butter makers wish to cover up their own faults in the creamery by blaming someone or something else and so oftentimes let their criticisms fall upon hand separator cream. To the butter-making class I would suggest that they observe the following rules and they will have no kicks to make: First, have each patron deliver his cream regularly and not less than three times per week. Second, have the cans washed and steamed at the creameries. Third, unless the cans are of uniform diameter and a hot sampling tub is used test the cream as often as delivered. Fourth, always use a clean mild starter with an acidity of not over 7 per cent. Fifth, ripen the cream at low temperature and place the development of 5 per cent of acid as the limit before churning. Sixth, churn the cream at a temperature to prevent the granules from gathering in lumps before the butter is worked.

Some may ask, "What has all this to do with the marketing of butter?" I answer, "Everything." If you do not give the farmer a correct test he will be dissatisfied and will not take the pains with his cream that a well satisfied patron would. When we are certain of a good and uniform quality of butter and not until then can we expect to market our butter to the best advantage. In marketing high-quality butter we must give the handling of the product to men (never one man) who are willing to take the butter at a stated price based on a certain market and who must take your weights. Whenever the goods do not suit them they can have you discontinue your shipments. The idea of letting the buyer make prices and weights is all wrong and no more necessary to tolerate than it is for the retailer to let his customer take the butter home and make his or her own weights and price and settle for it when they get good and ready.

The reason for not giving your entire make to any one man (no matter how good or what prices are offered) is because when this man drops you, you are always forced to sell your butter on commission for the time being which may mean a loss of from \$10 to \$500 before you are able to find a suitable man with whom to market your brand of butter. It being understood and I think questioned by few at this time that no creamery should let a single pound of butter go out without its own brand and any creamery that puts its butter under someone else's brand or under no brand or trade mark at all will never realize all that the butter is worth if it is of good quality. Another way to market your butter is direct to the retail trade. By this plan it is absolutely necessary that you be able to ship your customers just the amount they ask for and if necessary an extra lot when they run short and perhaps now and then no butter at all for a week or two.

Regarding the use of a trade mark on your butter let me say that it is absolutely necessary whether the butter is sold in tubs or prints. When sold

Keep \$25 to \$50 in Your Own Pocket—That's as Near Home as You can Get

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The Galloway is the easiest to clean, with few parts, which come out easy and cannot get back out of place; easiest to run; high crank; low tank; no high-lifting and no "back-breaking" cranking. Gets the finest cream qualities—and all of it. No lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down. Skims closest, in any climate or season, no

matter whether your milk is warm or cold. This handsome machine, compact and substantial, with beautiful finish, cannot be beaten at any price. And you cannot get my new Bath-In-Oil principle on any other separator. Remember, that this is most important. It proves to you why I can afford to give you a 30 years' guarantee because I know that the parts cannot wear this out—get hot—clog—or clash and put the separator out of commission like others do where you have to be remembering to oil them all the time. The Galloway is the only separator into which you can pour oil at the top once a month from your oil jug, or can, and have it oil itself without danger of running dry or ruining it like others. This costs you nothing extra—is worth \$50.00 more than separators built the other way. Remember, that I am an actual manufacturer—not a supply house, catalog house, dealer or jobber. You get the lowest direct factory price from me every time. Write me today for my big separator catalog and let me quote you prices that will astonish you.

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Big Book FREE

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All Gears Encased and Run in Bath of Oil

Positive Insurance Against Wear

No Oil Out or Oil Holes

No Danger From Getting Caught

and Upward

in tubs the brand should be placed on the side of the tub with paint that will not wash off or blur when wet. If placed on top it is not only too easily marred in the handling of the tubs, but also too easily scraped off to be replaced by another brand. Every creamery operator should brand his make of butter for the same reason that other lines of business brand their goods. For instance, if you buy butter color you ask for a certain brand. If you are looking for an engine you want a certain make and if you want to buy a "rainbow" you will not accept a shipment of "white tar" packing. Any firm that is not willing to handle your butter under your own brand is not willing to work for your interest and it is much better for you never to open up business with them, so let me say again, never sell a single pound of butter without your own label on it if the butter is of good quality.—(From paper read before Wisconsin Dairy School alumni January, 1910.)

UP THROUGH THE DAIRY.

To the Editor of The Homestead:
It is a pleasure to see any farm growing better and better as time passes by. To know how this improvement is made is well worth while. It may be encouraging to point out the way one man of my acquaintance has done it.

Some twenty years ago he bought a farm that had been sadly neglected, so that the crops were discouragingly small every year. After paying for the farm, he had little money left to stock it or otherwise improve it. He did get a few good cows at first, not thoroughbreds, but good, common, every-day cows. Then he began to fix up the barn. How many men would have thought, "I must make the house look good first!" Not this man. He had his eyes set on the goal of a better dairy and believed that would make for better farming all around for him. And he was right. Little by little the farm began to pick up. All the stuff grown on the place was put back in the form of barnyard manure. The stock took this corn and hay and other stuff and turned it into that most valuable form of soil fertility, barnyard manure. The more manure he had, the more cows he could keep, for the land constantly improved in value and in productivity. Today that man has a herd of twenty-five cattle, besides the horses, hens and hogs his place will sustain. The thought proved true. The dairy built up the farm. Thousands of men have done just that, and will do it in the future.

The man who thinks he is not able to buy a farm because he is afraid he will not be able to grow crops good enough to make a living may begin, as this young man did, with a few cows. Then he may add a few hens and all the hogs he can keep. The hens and the hogs will bring in ready money. There will also be some milk and butter to sell, and the world will begin to look brighter. In a year or two he will have raised some calves of his own. It may be he will be able to find here and there a calf among his neighbors. That may be added. As he is able he may get better cows. A full-bred sire will add to the value of his herd and soon he will find it possible to get some thoroughbred cows. This can be done, for it has been done. The only thing is to have the determination and then work steadily toward the mark.

Edgar L. Vincent.

A COW PER ACRE.

That one cow to the acre can be kept I know, but you will smile and say, how?

In the first place, the land must be good, and in a high state of fertility. Big crops of corn saved in the silo, alfalfa hay cutting three crops in a season, successfully cured, sugar beets or mangels, will produce an immense amount of cow feed per acre. Oats and peas sown together and cut for hay, followed by rape, also yield large amounts of feed. Pasturing is a waste ful method on high-priced land. The silo and soiling crops will support more cattle than pasturing. But why not take more land?

In the first place, we are getting

short of land, our new lands are being all taken up. Our government is spending millions of money to irrigate the desert lands and bring them under cultivation, also to open ditches and drain our swamp lands to increase the agricultural area, when we already have good land near market and convenient in every respect, but lying almost idle for want of knowledge. Our large farms are for the most part poorly tilled, robbed of their fertility because the owner will not keep the necessary amount of stock or needed help to work them properly.

The history of our nation shows that in the past our population has doubled in twenty-seven years. That means that twenty-seven years from now we will have practically twice as many to feed from the same land; that means that our acres must produce nearly twice the present product.

Again, our young men cannot buy 100 or 200 acres of land at \$100 each and expect to pay for it in the old way of farming, but a few acres can be bought and by the same careful thought and study that the professional man or the business man or the politician puts in his work he can succeed. The professional man spends four years in college and three or four more in his special line of work and continues this by constantly keeping in touch through papers and magazines with all the discoveries in his special line, and even then, through the stress of competition, he may not attain unto wealth or distinction.—(H. D. Griswold in Wisconsin Annual.)

WALTEMEYER'S AVERAGE \$64.50.

One of the greatest offerings of Duroc Jersey brood sows seen this year went through the ring of Messrs. Waltemeyer Bros., at Melbourne, Iowa, on January 17th, and the forty-three head averaged \$64.50. This offering was strictly high class, and anything that was sired by or bred to their noted prize-winning boar, Golden Model II., were eagerly sought after. No. 20, an H. A.'s Choice Goods gilt, bred to Golden Model II., topped the gilt offering, going to Mr. H. S. Allen, of Russell, Iowa, at \$107.50. The show sow, Belle's Fancy, went to Mr. W. S. Golly, of Zehring, Iowa, at \$150. The boys deserved great credit for this offering and the buyers appreciated their efforts by paying good prices for their sows. Colonel Luther cried the sale. Below we list the entire offering:

Lot.	Price.
1. Golden Queen 3d, W. R. Benne-thum, Madrid, Iowa	\$109.00
2. Golden Queen 4th, G. W. Hockett, Manning, Iowa	74.00
3. Golden Queen 5th, A. R. Olsen, Woodward, Iowa	66.00
4. Fern, Frank Butterfield, Ankeny, Iowa	78.00
5. Ruth G. 3d, Edmonds, Shade & Co., Kingsley, Iowa	70.00
6. Miss Inventor, W. B. Beckmeyer, Hubbard, Iowa	69.00
7. Blazes Queen, E. H. Ehlers, Tama, Iowa	70.00
8. Princess Model, F. H. Ehlers	77.00
9. Miss Maggie, J. J. Vasika, Pocahontas, Iowa	85.00
10. Wonder's Lady, H. L. Cantine, Quimby, Iowa	61.00
11. Proud Ruby, Claud Huffman, Seranton, Iowa	61.00
12. Miss Surprise, Guy Waite, Palmyra, Neb.	60.00
13. Old Gold, A. J. Andrews, Melbourne, Iowa	61.00
14. Miss Crimson, C. Smay, Colo. Ia.	50.00
15. Nellie Keep On, A. T. Havilow, Baxter, Iowa	60.00
16. J. W. Garis, Rhodes, Iowa	87.50
17. Frank Butterfield	67.50
18. Lester Walker, Rhodes, Iowa	60.00
19. Jerry Pokorny, Clarkson, Neb.	90.00
20. H. S. Allen, Russell, Iowa	107.50
21. Jeff Current, Hildreth, Neb.	52.50
22. Gilbert Van Patten & Son, Sutton, Neb.	57.00
23. H. Wernimont, Ohioawa, Neb.	42.50
27. C. A. Schott, Pocahontas, Iowa	60.00
24. S. E. Eakles & Son, Prophets-town, Ill.	58.00
25. J. W. Goodwin, Rhodes, Iowa	58.00
26. J. W. Garis	59.00
28. A. Lentz & Son, Pierson, Iowa	54.00
29. J. E. Wehr, Portsmouth, Iowa	46.00
30. Frank Vrtiska, Pawnee City, Neb.	71.00
31. M. Kraft, Newhall, Iowa	55.00
32. C. E. Veak, Essex, Iowa	66.00
33. N. J. Wilkins, Lake City, Iowa	51.00
34. Buck & Miller, Sunny Hill, Ill.	45.00
35. Frank R. Preston, Rhodes, Iowa	43.00
36. G. E. Paul, Haverhill, Iowa	46.00
37. Henry Krueger, Baxter, Iowa	42.00
38. S. P. Freed, Ames, Iowa	61.00
39. Sexsmith & Strong, Greenfield, Ia.	70.00
40. J. J. Vasika	30.00
41. G. E. Paul	50.00
42. C. F. Waltemeyer, Melbourne, Ia.	43.00
43. Belle's Fancy, W. S. Golly, Zehring, Iowa	150.00

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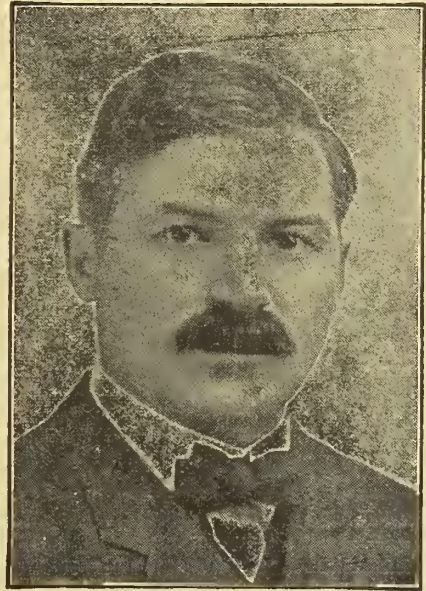
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DR. DAVID ROBERTS

Cattle Specialist

Wisconsin State Veterinarian, 1906-7-8

To Dr. David Roberts is due a full measure of credit for the advancement of the live stock industry of this country.

In addition to his liberal contribution to the many farm publications, his twenty years practice as a veterinarian, and his three years service as State Veterinarian of Wisconsin, he has devoted the greater portion of his time to the education of the stock owners through his many public meetings throughout the country, without remuneration. His common-sense, practical, heart-to-heart talks have gained for him a place in the hearts of the stock owners, and a position of authority with them.

Every owner and lover of stock should not fail to hear him when he speaks in their community.

Dr. Roberts urges all stock owners who have his book, to read it, not only once, but also to make a practice of studying some one disease or ailment each day, and in this way become thoroughly familiar with the proper handling of stock.

The Doctor will send any owner of live stock who has not already received one, a copy of his book, The Practical Home Veterinarian. In this book he gives the symptoms, and describes fully and tells how to treat the diseases every stock owner should know about. These are some of the diseases he urges every stock owner to learn all about:

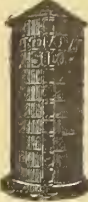
Tuberculosis, Contagious Abortion, Retention of Afterbirth, Barrenness, Paralysis of Bowels, Calf Cholera, Milk Fever, Hard Milkers, Bloody Milk, Caked Udder, Colic, Lump Jaw, Black Leg, Distemper, Navel Disease, Intestinal Worms.

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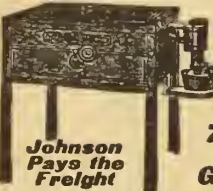
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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.



ROUP AND ROUPY COLDS.

As this is the season when diseases of the respiratory organs are most prevalent, a concise review of symptoms denoting what is commonly called roup and simple remedies therefor will be especially timely. For these we are indebted to Dr. Prince T. Woods, who has an exhaustive article on this subject in a recent issue of the "Reliable Poultry Journal."

The terms roup and roupy colds have been applied to all catarrhal head colds of poultry for many years. As knowledge of poultry ailments increased, poultrymen learned to distinguish between simple colds and catarrhal ailments, and the real, contagious disease which properly bears the name roup. There is still some confusion, however, as custom still applies the name roup to nearly all poultry ailments which attack the eyes, nose and throat, which show watery, frothy eyes and a running discharge from the nostrils. But these symptoms do not always mean genuine roup, although if neglected, they may run into the real and truly dreaded disease. Preventive treatment when these symptoms occur, is of the greatest value.

Dr. Woods says that it is a singular fact that some of the most successful methods of prevention, treatment and care of roupy fowls, were known and successfully practiced nearly one hundred years ago. The chief difference is that people believe far less in drugs and dopes, both for human invalids and for fowls, than they did then. Dr. Woods, himself, although a successful physician, prefers to use as little medicine as possible, "depending mainly on preventive measures, hygiene and the use of simple remedies that assist rather than force nature in the work of restoring good health."

There are certain easily recognizable symptoms, such as loss of appetite, dumpy appearance, plumage rough and untidy, and an inclination to stay on the roost in the daytime. In simple catarrhal colds there is frequent sneezing, bubbles at nostrils and in corners of eyes, glairy or watery discharge from the nose, but—and this is of the highest importance in the diagnosis, no foul order to the discharges.

Chronic catarrhal colds are shown by persistent discharges of mucus from nostrils, these being often closed with dirty crusts. Sneezing and coughing are also present, the mucus having a disagreeable odor, but not the characteristic roup smell. Thick, dirty crusts are caked on feathers beneath wings, where the head is tucked during sleep. The cough reveals thick, yellow mucus in mouth and throat. The cleft in roof of mouth is closed, or nearly so by swollen mucous membrane.

In genuine roup the early symptoms are similar to those of catarrhal colds, but the roup smell is always present; a smell, once known, that is never forgotten. Not only the discharges, but the atmosphere of the poultry house itself, is permeated with the unmistakable odor, and the smell clings to persons handling the birds. The face about the eyes is apt to be swollen, and the legs hot and shrunken. The appetite is irregular, sometimes voracious, but with no gain in flesh; cheesy accumulations, easily detached, in eyes and mouth.

Sometimes the disease takes on the diphtheritic form. This is indicated by very sudden illness with complete loss of appetite and great weakness. Comb in first stages, hot and dark red, later, pale and drooping. The bird gasps as if suffocating, with livid face and comb. The breathing is difficult, with cough that has a sharp "pip" sound. There is a very foul odor from mouth, quite unlike the characteristic

roup odor more resembling that from putrid meat. This odor is noticeable when handling birds or from the breath. Patches are seen in the throat, the color of wash leather, extending into the cleft of palate. Attempts to remove these patches result in bleeding.


The various symptoms being understood, the treatment must next be considered. Dr. Woods believes that even in severe winter weather it is better to house sick birds in open-front houses. Unless the weather is very inclement, they should have a little sheltered run on the bare ground with plenty of straw litter. Moist mash may be fed if the sick fowls will not eat grain, but as a rule mixed hard grains with beef scraps make a good ration. As first treatment, he recommends:

Cleanse eyes, nostrils and mouth with soap and warm water. After cleansing press a little vaseline beneath the eyelids and also in the nostrils and cleft in the roof of the mouth. In some cases better results will follow using a solution of hydrogen dioxide instead of the soap and water. For this purpose, mix one part hydrogen dioxide and two parts cool water, by measure, mixing fresh each time needed. A weak antiseptic solution, one teaspoonful in a pint of lukewarm water, is also good for cleansing. It should be freshly prepared.

If the hydrogen dioxide or a pure article of hydrogen peroxide are not available, good, hard yellow soap with

HERE'S CERTAINTY

For beginner, old-timer—everybody. Don't guess or experiment—don't have mishaps. The 16-year-old



SUCCESSFUL Incubators and Brooders

make you sure. Thousands have proved them the world's greatest. Booklet on "Proper Care and Feeding of Chicks, Ducks, and Turkeys, 16c. 50c Poultry paper 1 year %c. Catalog free.

Des Moines Incubator Co., 50 2nd St., Des Moines, Iowa

The Million Dollar Bonded Incubator

There is only one—The Sure Hatch. It is in a class by itself. No other incubator is built of such high grade materials. No other has such a record of results in hatching, nor such a liberal guarantee. Every purchaser of a Sure Hatch Incubator actually receives a \$1,000,000 Surety Bond issued by the great Bankers' Surety Company of Cleveland, Ohio. That bond places the entire resources of this great corporation behind the Sure Hatch Guarantee.

No other incubator is good enough for Bonding Companies to risk their money in backing. The Bankers' Surety Company could not afford to let their name be used, let alone back up our guarantee if the Sure Hatch were not the best incubator on the market. They didn't agree to issue bonds on the Sure Hatch without first looking into the machine, its construction and record.

Now, can you see any chance to lose on an offer like that when we pay the freight and allow you 60 days' Free trial?

Write to-day for complete information about the only bonded Incubator and for Free Poultry Book.

Sure Hatch Incubator Co.

Box 16 Fremont, Neb.



Write To Us And Get Acquainted

With What We Have to Offer

A letter or postal—either one will do—then we'll send you our literature and valuable information on raising poultry to make money.

Racine Incubators turn healthy eggs into healthy chicks every time—and give the highest percentage of hatches. They are sure—safe—and simple—made to last a lifetime—sold at prices lower than anybody else will quote you for the same quality—and they make money for you right from the jump and give everlasting satisfaction. Write and get our proposition—our literature is free. Free Trial plan—best ever offered. Don't delay—Write for full information today.

RACINE HATCHER COMPANY, Box 135 Racine, Wis.

IF NOT, WHY NOT?

Let me help you in the Poultry Business. Get a Poultry Leader Incubator and Brooder, then you will be sure to hatch and raise chickens. Metal Encased—Safe and Sure—Prices are Lower—85 Per Cent Better Hatches. It's time for you to hurry. Free book ready. Send your name quick. Freight Paid.



Notice Lamp. Box 17

EMIL OCHSNER, Sullen, Neb.

Chicks' Happy Home

The BEST Preventive and cure for ROUP is GERMOZONE

not offered as a "cureall" forevery poultry disease, but its uniform use throughout the country, not only for Roup, but also Cholera, Chicken-pox, Bowel Complaint and other diseases of a similar nature, emphasizes its positive, indisputable merit. No injurious after-effect. It prevents and cures, and is a tonic. Sold in liquid or tablet at 50c. Send direct to us for it if the local dealer cannot supply you. Insist on getting Germozone.



LEE'S EGG MAKER

There may be protein in a food, but unless it is digestible protein it won't make eggs, nor furnish strength and vigor to the hen. We offer you in Lee's Egg Maker what the scientific poultrymen have been looking for. They knew what was needed. We furnish it. Proven by thousands who raise poultry for all there is to be gotten out of it—business poultrymen.



We guarantee it can be fed to the exclusion of all other forms of meat food at less feeding cost and with better results from every standpoint.

Price: 25-lb. pail, \$2.00; 100-lb. drum, \$7.00, freight paid in 100-lb. lots. Handled generally by merchants, but if your dealer doesn't have it, send your order direct to us.

GEO. H. LEE CO.
1173 Harney St. Omaha, Neb.

General Agents in all large cities. Write the one nearest you, and we will send FREE a copy of "Lee's Chicken Talk," written by Geo. H. Lee, himself. Also 1910 Incubator Catalog.

Fowls and Eggs

Breed Prize Winners

We have the stock at right prices—all leading varieties; 100 pens. Write us. Booklet on "How to Raise 48 Chicks Out of 60 Hatched," 10c; Poultry Paper, 1 year, 25c, Catalog Free.

ROYAL POULTRY FARM
Dept. 306 Des Moines, Iowa

Know My Incubator— Know My PLAN.

My plan is so liberal that you will enjoy dealing with me, and my "QUEEN" incubator is such a good, substantial money maker for your farm that you and I will both be more than satisfied to become poultry friends.



I Pay the Freight.

Just drop me a line, so I can explain my proposition and let you see pictures and letters of my farm friends who use "QUEEN" Incubators. Please do it to-day. I am still including one of my handy Poultry Record Books with my Catalog. It enables you to keep exact figures on hatching and to know how much you are making. I want you to know these facts when you try out a "QUEEN," because it will prove conclusively that you are getting all the poultry profit that can be made.

Pick out from my catalog the size you want and I will just fix you up to your entire satisfaction—make you a low price, a long time guarantee and allow you an extended trial. Write me to-day or you may forget it.

Wickstrum, The Queen Incubator Man,
Box 10, Lincoln, Neb.

125-Egg Mankato Incubator \$7.25
245-Egg \$9.50



The high-grade hatcher now down to rock price. Well built of best material. Has double walls, heavy copper hot-water tank and boiler, self-regulator, nursery, high legs, safety lamp, egg tester, thermometer, etc. None better at any price.

Sold direct from factory under binding guarantee and long-term trial. The result of 15 years' experience with incubators and raising poultry.

120-Chick Brooder \$3.75—240-Chick Brooder, \$4.50
Write for big free catalogue, or order direct from this ad.
MANKATO INCUBATOR CO., BOX 827 MANKATO, MINN.

Your Name Will Get \$2 Eggs For 50 Cents Per Sitting

I will sell 2 sittings of full blood Single Comb Brown or White Leghorn Eggs for \$1 for the 2 sittings. Not less than 2 sittings. Eggs by the 100, \$5. Full blood White or Barred Plymouth Rock or Rhode Island Reds or Silver or White Wyandotte or W. Orpington or Rose Comb Brown Leghorn or Single Comb Black Minorca Eggs, \$1 per sitting; by the 100, \$7. Large Bronze or White Holland Turkey Eggs, \$3 for 10 Eggs. Large White Pekin Duck Eggs, \$1 for 10 Eggs. 100 Egg Old Trusty Incubator, and 100 Chick Brooder, delivered at your R. R. station, both for \$14 east of the Rocky Mountains. This is a rare chance to get a start of extra fine stock and a good incubator. Send Post Office order on St. Louis and have your orders booked early.

W. F. CHAMBERLIN, (The Perfect Chick Feed Man)
KIRKWOOD, St. Louis County, MO.

POULTRY PROFITS DOUBLED

If you want \$2 profit where you now get \$1, either from eggs or poultry for market, simply send us your name and address and let us tell you the real poultry secret that has doubled the profits of poultry raisers. It is the only real way to poultry success. Make every fowl a profit earner. Write at once for this information whether you have 3 fowls or 300. It's free to you. **Blanke & Hank Supply Co., 131 Blanke Bldg, St. Louis, Mo.**

LATEST BOOK "Profitable Poultry." Best published. Describes most successful Poultry Farm. 45 Varieties pure-bred poultry, beautiful, hardy and money makers; thousands to choose from. Lowest Price on fowls, eggs, incubators, etc. Sent for 4 cents. **Berry's Poultry Farm, Box 112 Clarinda, Iowa**

125 Egg Incubator \$10
and Brooder Both For

If ordered together we send both for \$10. Freight paid east of Rockles. Hot water, copper tanks, double walls, double glass doors. Free catalog describes them. **Wisconsin Incubator Co., Box 105, Racine, Wis.**

50 Best Paying Varieties Pure-Bred Chickens. Ducks, Geese, Turkeys, Eggs, Dogs and Incubators. All at low prices. Send 4c for my Book which gives reliable information worth many dollars to you. **W.A. WEBER, Box 906 Mankato, Minn.**

ORPINGTONS.
THE S. C. Buff Orpington Farm will put on the bargain counter for the next 15 days, 40 hens and pullets. Prices cut in two. They go at \$1 each as long as they last. Get busy. Need room for breeders. Address **John T. Stadler, Minden, Neb.**

S. C. Buff and Black Orpingtons, best strains. \$2. Cockerels, \$2 and \$3 each. Pullets, \$1.50 and \$2. Eggs, \$2 and \$3 per 15; utility, \$6.50 per hundred. **E. B. Conable, Box A, Independence, Ia.**

SINGLE Comb Buff, Black, White and R.C. White. Scored cks. Scientifically mated breeders. Eggs. Baby chicks, mating list. **Dr. Evans, Legrand, Ia.**

Single Comb Buff Orpington cockerels and pullets. Eggs in season. Eggs from fine Houdans reasonable. **Mrs. Chas. Gutches, Floyd, Ia.**

BUFF, White and Jubilee Orpingtons for sale, including eggs very cheap till May 1st, the time we must move. **P. N. Dunn, Humboldt, Iowa.**

S. C. Buff Orpingtons, both sexes; choice stock from \$1 up. Also a few good cocks. Address **Nettie Crane, Route 1, Blencoe, Iowa.**

DOGS.

SCOTCH COLLIE PUPPIES For sale. \$5 to \$8. Very best breeding; will make fine workers. Write us your wants. **T. A. Stevenson, Shannon City, Iowa.**

English Bull dog, Beaver Monarch; registered young heavy weight, for sale or exchange for chickens; ped., photo. **Vaughn Bailey, Lamoni, Ia.**

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS, Cumming, Iowa.**

warm water may be used. Press vase-line into the nostrils and under the eyes after each cleansing. Dr. Woods gives as the formula for one of the most satisfactory remedies for common colds the following: Two ounces of camphor dissolved in one pint of strong alcohol; mix a half-teaspoonful of this with one tablespoonful of sugar. Dissolve the whole in one pint of drinking water. Allow the birds no other drink.

When true roup appears, strenuous action must be taken. Open air quarters must be fitted up for a hospital. All birds attacked by this disease must be isolated without delay. The poultry house must be most thoroughly cleansed and fumigated. The antiseptic solution is frequently effective. Dip the bird's head in the solution with its mouth held open with the forefinger and remove quickly. Dip two or three times, being careful not to suffocate the patient.

Sulphate of copper is one of the oldest effective remedies for roup, and it is still the chief ingredient in many of the popular roup cures. It is useful as a lotion, after cleansing the eyes, nostrils and throat. To this end dissolve ten grains of sulphate of copper in one ounce of water, and inject into the nostrils with a medicine dropper. Also, it may be used to wash the eyes and swab the throat.

Dr. Woods considers the open air treatment the most important of all. Many cases have recovered without other treatment than open-air living and sleeping quarters.

When actual diphtheria appears, it is best to use the hatchet, unless the bird is very valuable. The cleansing treatment mentioned before is recommended when an effort at cure is made. The following powder blown into the throat and nostrils three or four times a day is often effective: Finely powdered permanganate of potassium, one grain; powdered gum acacia, one dram; powdered sugar of milk, one ounce; mix well.

Birds kept in open-air houses seldom have colds or roup, therefore this method of housing seems to be the best preventive against respiratory diseases as well as a potent method of cure when birds kept under the old time conditions are attacked.

FEEDING THE BIRDS.

While it is true that the winter birds have feeding habits which render them ordinarily proof against a heavy fall of snow, there are few who will not appreciate assistance. Without pretending to the niceties of this winter's ornithological records in this region, it is enough to remark that our list of winter birds is ordinarily a surprisingly long one. Besides the cedar waxwing, the bluebird and the robin, one is not unlikely to encounter—or hear—a purple finch, the chickadee, the white-breasted nuthatch, the goldfinch, and even the song sparrow, while among our occasional visitors are the redpoll, the American crossbill, the white-throat, the junco or snowbird, the winter wren, the golden-crowned kinglet and the brown creeper. And others besides, others who constitute the surprises of the season. Altogether the practice proposed has its very attractive features and the school children in particular should get lots of pleasure therefrom.

The incubator season will soon be here, in fact many start their machines early in February. It is all right to get this early start if a good place awaits the downy chick, but the chick hatched into the world at the beginning of March has a tough time of it if it has to stand chills and frost bites. Early chickens pay only when care and quarters come up to requirements.

It is poor policy to dope fowls when they are healthy—and when they are unhealthy, for that matter, unless you know what the dope is you are using.

POINTERS.

—Three different varieties of Orpingtons are advertised for sale by Mr. P. N. Dunn, of Humboldt, Iowa, in his advertisement on this page. On account of removal prices will be low.

—Mrs. Laura Mather, of Clarksville, Iowa, writes that she has about twenty-five of as fine, pure-bred Rose Comb Brown Leghorn cockerels as can be found anywhere and that she will sell them at reasonable prices. Her

Friend: This is My Double-10-Year Guarantee to You

I Guarantee every Ideal exactly as I say, or your money back. For 10 years I will replace all Ideal parts, if defective in materials or work.



J. W. Miller
Personal
Owner

Over 80 Per Cent Hatches

Here's how my customers prove up my Ideals:
Mrs. F. E. Buell, Charles City, Ia., got 103 chicks from 105 fertile eggs.
J. S. Haley, Enslaw, Ala., got 132 chicks from 138 fertile eggs.
Read all dated letters in my free book of Honest Facts told by my customers.

Get Today My "Tell-How" BOOK FREE

YOU—man or woman, friend-of-mine-to-be—can find how profitable, easy, satisfactory and creditable it is to be in chicken-raising cash business, with Ideal Incubators and Brooders, if you'll send me your name for my Big, New 1910 Ideal Incubator and Brooder Book.

Don't let yourself miss my this-year's book.

Beginners and old-time-experienced Poultry Raisers tell the story—with photographs and helpful advice, which will prove how you can start right and make the most money.

Only \$7.50 to start. Why pay more? Quick delivery—freight prepaid—complete—ready to hatch with. No disappointments.

This price based on my new 60,000 capacity. Write today.

I have something NEW to tell you about 1910 Chicken-Raising for BIGGER PROFITS this year. Let me write it to you PERSONALLY. I tell you the Freight Prepaid Price of my Ideals HERE (Only \$7.50 Complete—No Extras). But let me Write You My Own Chicken-Raising Best Experiences. And Also Send You My Big, NEW 1910 FREE BOOK.

Address me Personally—J. W. MILLER, Proprietor
J. W. MILLER COMPANY, Box 305, FREEPORT, ILLINOIS
(Also Proprietor of Famous Millbrook Poultry Farm.)

Send Me Your Name For My Big "Chicken-Cash" Book J. W. Miller (Personal) FREE Box 305, Freeport, Ill.

Send me your Big, Free 1910 Ideal Incubator and Brooder Book—postage paid.

Name, please.....
Address.....
Town.....
State.....

IMPORTANT. Cut or tear out and mail me this Free Coupon or Postal, or write me a letter right away to get ready, and get my Lowest-Freight-Capacity Price—Freight Prepaid—complete, if you want my Incubator at only \$7.50 when you read my book.

YOU need not pay more than \$7.50 now, complete, freight prepaid, for the highest-grade, 10-year-guaranteed Ideal Incubator. My price is now based on 60,000 capacity. Every machine guaranteed perfect—direct to you. Ideal to start. Runs itself, with least watching. Handsome, substantial, safe; galvanized-steel-top, ends, sides and bottom; covering best-seasoned-wood case—insulated perfect; heavy wool felt, making hatching sure in any climate. Tubular copper tank and copper boiler. Perfect circulation; no cold corners or hot centers. Metal-jacket heater-head uses heat twice, saving half on oil cost. Most convenient egg trays and nursery. Every part made on combined best experiences of thousands, so you can hatch and raise the most strong, healthful chickens with

1910 IDEAL INCUBATORS and BROODERS

(120, 175 or 240-Egg Capacity)

CAUTION.—Don't confuse my low price with "knock down" prices, or experiments, or "cheap built" machines. Ideals are as high quality machines as can be made for most practical use. You get my 60,000-capacity savings in the price of one. I bought 12 tons of copper before the rise—also steel (enormous quantities), also wood, long ago, to season it properly. That's the only way I could make you such a machine at such a low price.



**ONLY
\$7.50**
(120-Egg Capacity)

COMPLETE

(Ready to Use—No Extras to Pay)
FREIGHT PREPAID
(East of Missouri River, north of Tennessee. Freight allowed that far on points beyond.)

Facts You Should Know

1. No extras to pay for. Comes complete, ready to use.
2. Automatic regulator—FREE.
3. Automatic ventilator—FREE.
4. Metal Lamps; Egg Testers; Thermometer the best made, to get the most strong chicks—FREE.
5. See free catalog for the whole story of Ideals.

advertisement appears on page 30 of The Homestead.

—Homestead readers wishing to buy Rose Comb Rhode Island Reds will be interested in the advertisement of the Iowa Poultry Farm, at Gilmore, Iowa, that appears on page 30 of The Homestead.

—Barred Plymouth Rock eggs from the leading strains are advertised for sale by Mr. John E. Hardman, of Brayton, Iowa, on page 30. Prices \$1 for thirteen, or six sittings for \$5. Mention The Homestead when writing him.

—Mrs. W. I. Mouser, of Red Oak, Iowa, is offering Single Comb Rhode Island Red scored and unscored cockerels and hens for sale in her advertisement on page 30. They are from the best strains and will be priced right.

—Mrs. C. F. McLochlin, of Gray, Iowa, writes that her White Holland turkeys, which she is offering for sale in her advertisement on page 30, took first prize at the Carroll County Poultry Show and that her White Wyandottes are also prize winners. They are of the Fishel strain and she says are very fine birds.

—Mr. S. A. Hummell, of Freeport, Ill., gives prices on forty-five varieties of land and water fowls and eggs in his 1910 catalog, which will be sent free. Every Homestead reader interested in poultry for profit should write for this book. Mr. Hummell's advertisement will be found on page 30 of The Homestead.

—Mrs. W. S. Kern, of Iowa City, Iowa, whose advertisement appears on page 30, writes: "I have a few extra fine Barred Plymouth Rock cockerels and pullets sired by a cockerel out of Judge Shellabarger's yards. I can also spare a fine breeding pen, either yearling hens or pullets, mated with a large two-year-old cock or young cockerel as desired. My hens are now laying and I will soon be ready to fill egg orders for hatching, either in single sittings or by the 100."

—Mr. F. H. Eckert, breeder of White Plymouth Rocks, Charter Oak, Iowa, in sending copy for advertisement found on page 30, writes: "I have nothing but first-class birds to offer. I showed six at the Carroll County Poultry Show, at Manning, Iowa, in January, that scored an average of 95, winning three silver cups, first on pullet scoring 96, first on cockerel scoring 95½, first on pen scoring 190% and six ribbons on six birds. I had the highest-scoring cock, pullet and pen in the show. My bull terriers are finely marked

and are just the dogs for anyone in need of a good watch dog."

—Dr. Evans, of Legrand, Iowa, has Single Comb Buff, Black, White and Rose Comb White Orpingtons for sale, as per advertisement found on this page.

—Messrs. J. A. Blum & Co., of Chatfield, Ohio, can furnish pure-bred chicks at reasonable prices. This company write they shipped over 60,000 last year and that they have increased their capacity so that they can now hatch 30,000 eggs at one time. They have baby chicks of quality and will guarantee safe arrival. See advertisement on page 30.

—Mr. D. A. Good, of the Cedar Lawn Poultry Farm, Ogden, Iowa, has a number of choice White Plymouth Rock cockerels for sale which he wishes to dispose of at \$1 to \$2 each. They are of the Fishel strain, large and vigorous birds out of stock scoring 96. Write your wants at once, as it is getting time for mating yards and stock. See page 30.

—At the great St. Louis Poultry Show of December, last, there was an exhibit of more than 5,000 birds. At this wonderful show Mr. William Miller, of Crescent, Mo., captured first prize on White Plymouth Rock cockerel and first on White Plymouth Rock hen and values these two birds at not less than \$2,000. It is an interesting fact that these wonderful prize winners were reared on Chamberlain's Perfect Chick Food.

—Mr. M. V. Leeper, of Redfield, Iowa, breeder of Barred Plymouth Rocks and Mammoth Bronze turkeys, in furnishing copy for the advertisement found on page 30, writes: "The Barred Plymouth Rock cockerels that I am offering for sale are the best lot I have ever raised. They are line bred and right in shape and color. They have nice, low, even combs, red eyes and yellow beaks and legs. The turkey toms are large, healthy birds, hatched rather late, but will weigh from twenty to twenty-five pounds and ought to suit the most exacting breeder."

TWO GREAT ROOSTERS.

The attention of our readers who are admirers of high-class poultry is called to the half-tones of the two birds from the North Buffalo Poultry Yards which appear in this article. The first one shows "Red Bird," a famous Rose Comb Rhode Island Red, winner of the silver cup for best cock, any variety, in a class of eight varieties. The picture shown is from an untouched photograph. This means that no work was done on the photo-

graph to give a better appearance to the bird. The second photograph is that of Victor, a first-prize Columbian Wyandotte cockerel, a winner at many shows. Mr. John A. Arends, proprietor of the North Buffalo Poultry Yards, is offering for sale in this advertisement on this page of this paper twenty Columbian Wyandotte cockerels, twenty-five pullets and forty hens in single, trios or pens. Also fifteen Rose Comb Rhode Island Red cockerels well suited for utility,



"RED BIRD," WINNER IN A CLASS OF EIGHT VARIETIES.

breeding or show purposes. Mr. Arends has been in the poultry business for a number of years and devotes his entire attention to it. His birds have free range and are extremely hardy. He breeds Columbian Wyandottes, Rose and Single Comb Rhode Island Reds, Barred Plymouth Rocks and Blue Andalusians. The latter he calls the farmer's



"VICTOR," FIRST-PRIZE COLUMBIAN WYANDOTTE COCKEREL.

friend because they are non-setting, filling the egg basket rather than getting broody. Among his chickens are some of the best birds to be found in the country and which have won blue ribbons wherever shown, under such judges as McClure, Thompson, Shellabarger, Rigg and Hale. Mr. Arends is offering a booklet on mating and prize winning which will be of interest to our readers. Look up his advertisement on this page and send to him for it.

WYANDOTTES.

MY GREAT LAYING STRAIN WHITE WYANDOTTES

Very fine Cockerels, Cocks, Hens and Pullets for sale. I can mate up pens and trios to please. I have been in this business for years and can please you if quality is desired. Write me at once, stating just what you want. Let me book your egg order now and have shipment made later. Eggs from a beautiful farm-range flock \$1.25 per 15, \$6 per 105. Also Scotch terriers, the world's greatest rat-ers, from puppies to grown dogs for sale.

S. Harr, Riverside, Iowa.

I Have the Best White Wyandottes

I ever raised, now ready for sale. \$10 trio a specialty. Quality stock. **J. M. Erickson, Slater, Iowa.**

WYANDOTTES

White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. A. L. Anderson, Indianapolis, Ia.

Buff Wyandottes I have a few good cockerels for sale. Address **Mrs. Grant Davidson, R. 5, Scranton, Iowa.**

Buff Wyandotte Cockerels, bred from show yard strains, for sale. Also a few pullets. **Geo. M. Deyoe, Mason City, Ia.**

Silver Laced Wyandotte cockerels for sale; Larger and better than ever. Write today. **S. R. Young, Greenville, Iowa.**

BABY CHICKS.

BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog 1910. **J. A. Blinn & Company, Chatfield, Ohio.**

RHODE ISLAND REDS.

S. C. Rhode Island Reds

TOMPKINS STRAIN

Write for descriptive circular.

P. H. Thiel, Renwick, Humboldt Co., Iowa.

S. C. R. I. REDS

BRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. **M. Finkenhagen, Ellsworth, Ia.**

R. C. RHODE ISLAND RED eggs; \$1.50 per sitting of 15, from highly-bred fowls. Splendid layers. Address **S. M. Snider, Shannon City, Iowa.**

ROSE Comb Reds Trap-nested for great egg production. Beautifully illus., instructive, descriptive catalog free. **Iowa Poultry Farm, Gilmore City, Ia.**

S. C. R. I. Reds exclusively, from best strains. Scored and unscored cks. and females priced right. **Mrs. W. I. Mouser, R. 5, Red Oak, Ia.**

EGGS From choice mating; Rose Comb R. I. Reds; great laying strain; best of stock. Address **A. L. Sanders, Perry, Iowa.**

35 S. C. R. I. Red cockerels; extra large and deep at \$1.50 to \$2 each. Eggs in season. Address **I. C. Welch, Bedford, Iowa.**

R. C. R. I. Reds Cherry Red strain, scored and unscored. Cockerels for sale. Prices right. **Harry C. Blake, Maquoketa, Ia.**

S. C. Rhode Island Reds A choice lot of scored birds for sale; eggs in season. **Lee Nichols, R. 4, Woodward, Ia.**

Rose Comb Rhode Island Reds. A choice lot of cockerels scored by Todd, for sale. **D. E. Witmer, Polk City, Iowa.**

S. C. R. I. Red Cockerels For Sale \$2 to \$5. **Mrs. H. L. Alsop, Sylvia, Iowa.**

S. C. R. I. Red cockerels; fine birds, from \$2 up to \$5. A few R. C. R. I. Red cockerels at a bargain. **Mrs. Sophia Rader, Laurel, Iowa.**

100 R. C. Rhode Island Red cockerels, \$1 each. Eggs in season. Address **Mrs. T. A. Gough, Bristow, Iowa.**

S. C. Rhode Island Red cockerels that are real Reds. Score cards by Russell. Address **F. L. Reinhard & Son, Ottumwa, Iowa.**

S. C. R. I. Red eggs from high scoring stock, that are proven winter layers; perfect type and color; \$1 per 15; \$5 per 100. **C. W. Kellogg, Kimerlin, Iowa.**

LEGHORNS.

Rose Comb Brown LEGHORNS

COCKERELS for sale at the Pike Timber Stock Farm as follows: Single bird \$2, two or more \$1.50 each, six for \$1 each. Address **T. A. DAVENPORT - BELMONT, IOWA.**

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. From prize-winning and high-scoring stock. Cockerels or hens, \$1.50 each, 6 for \$7.50, \$15 per dozen. Eggs, 100, \$4; 200, \$7.50. 12 years with this breed. **R. R. STEWART, R. 2, Charles City, Iowa.**

Rhode Island Reds-Both Combs

Scored 94% by Hale. **WINNERS WHEREVER SHOWN.** Stamp for catalog. **Mrs. F. W. McIntyre, R. 5, Red Oak, Iowa.**

SPECIAL EGG STRAINS

FARM raised, thoroughbred R. and S. C. White Leghorn cks.; selected, fine, big, vigorous birds. Pair, \$3.50; 3, \$5. **Chas. G. Jackson, Prescott, Iowa.**

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5, 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. **Sunny Slope Poultry Yards, Oskaloosa, Iowa.**

Rose Comb Brown Leghorn cockerels: choice birds; prices right. Eggs in season. Address **Mrs. Laura Mather, Clarksville, Ia.**

PURE-BRED Rose Comb Brown Leghorn cks. \$1.50 each or five or more at \$1 each. **Carey R. Jones, Route 6, Eldora, Iowa.**

ROSE COMB Brown Leghorn cockerels for sale, high-scoring, \$1.25 each. After January 15, 1910, \$1.50. Address **Eva D. Tutt, Alta, Iowa.**

FIFTY ROSE COMB BROWN LEGHORN COCKERELS \$1.25 each; very choice, **J. A. Albertus, Portsmouth, Ia.**

For Sale Rose Comb Brown Leghorn cockerels, 242 strain, price \$1.50 each; 4 for \$5. Address **J. E. Treloar, 1617 W. 9th St., Des Moines, Ia.**

Cockerels for sale—R. and S. C. White Leghorns and Black Langshans; single birds \$1.25, 6 for \$1 each. **Joseph Kappes, Jr., Ashton, Iowa.**

Rose Comb Brown Leghorns; prize-winning cockerels for sale. Address **Mrs. E. L. Claypool, Spencer, Ia.**

S. C. W. Leghorn cockerels \$2 and \$3.50 each. Eggs \$1.50 for 15; \$6 for 100. **Chas. J. Mackey, Box 523, West Liberty, Iowa.**

BRAHMAS.

Light Brahma Cockerels

ONE to five dollars each. I have a fine lot of them; no pullets for sale. Eggs in season. Address **FRANK P. HEALY, BEDFORD, IOWA.**

Ottumwa POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. **R. T. Cameron, Ottumwa, Ia.**

COCHINS.

Buff Cochins Exclusively 50 large-framed, shapely, even-colored, well-fathered cockerels at \$2 to \$5. Write **W. W. Vaughan, Marion, Iowa.**

PARTRIDGE Cochins. 12 fine hens at \$2.50 singly, \$7 per trio or \$25 per dozen; one cock, \$3; 2 cockerels, \$3 each. **Mrs. Floy Collins, Viola, Iowa.**

LANGSHANS.

BLACK LANGSHANS

BRED exclusively for fifteen years. A fine lot of both cockerels and pullets for sale at reasonable prices. Let me know your wants quick, as they will be scarce soon. **O. H. Stilson, Corwith, Iowa.**

PLYMOUTH ROCKS.

Buff Plymouth Rocks and Black Langshans

Prize-winning birds, scored and unscored, \$1 to \$3.50 each.

C. E. Malone, Atlantic, Ia.

219 Egg Strain B. P. Rocks

AND these birds are Blue Ribbon winners. I have a few cockerels and females for sale, from \$1.50 to \$5 each. Address **W. A. HARTMAN, Box 242, Winterset, Iowa.**



BARRED ROCKS and ROSE COMB WHITE LEGHORNS

BARRED ROCKS scoring from 88 to 92. If you want good birds at low prices write us. Score cards furnished. **Mrs. F. W. Hann, Harlau, Ia.**

Scored BARRED ROCK COCKERELS OF THE BEST OF BREEDING.

Scored by Shellabarger. **MRS. J. M. STEWART, AINSWORTH, IOWA.**

BARRED PLYMOUTH ROCK COCKERELS

LARGE size and extra heavy bone, with that deep blue, clear barring, not brassy, sired by high-scoring cockerels from hens and pullets weighing from 7½ to 11 lbs. Price \$2 to \$4 each. Write your wants to **M. A. Easthouse, Hartley, O'Brien Co., Ia.**

400 B. P. Rocks For Sale. Cocks, cockerels, hens and pullets. Prize winners, egg producers; large, vigorous, nicely marked. None better. 15 years a breeder. Mated exhibition and breeding pens a specialty. Prices reasonable. Bargains for quick buyers. **C. H. Tyrrell, Sioux Rapids, Iowa.**

GUTH'S WHITE ROCKS

Winners at the Iowa State Show. Choice cockerels at \$3 each. **Chas. Guth, E. 18th St and Logan Ave., Des Moines, Ia.**

White P. Rocks For sale; scored and unscored cockerels, scoring as high as 96½ points. Unscored cockerels for \$1.50 and \$2; scored ones, \$2 to \$7; one for \$10. Eggs in season. **Mrs. J. C. Forsythe, R. 5, Griswold, Iowa.**

BARRED ROCKS

75 Large-boned, nicely-barred cockerels, from prize-winning stock, for sale. 15 years a breeder. **Mrs. T. C. Churchill, R. 1, Monroe, Iowa.**

Barred Plymouth Rock Eggs

I AM offering choice eggs from the leading strains at \$1 for 13; six sittings for \$5. Write me at once. Address **Jno. C. Hardman, Brayton, Iowa.**

Buff P. Rocks Cockerels and pullets, scored. Anyone wanting breeders, \$2 to \$5. Eggs from my high-scoring birds, \$5 per sitting of 15. Address **W. C. Bradley, Bussey, Iowa.**

CHOICE Utility B. P. Rock cockerels; large, good shape, well barred and will please you. Also some very choice S. C. W. Leghorn cockerels. **M. E. BIRCHARD, HAZLETON, IOWA.**

150 Bradley and Thompson B. P. Rocks COCKERELS AND PULLETS.

Henry Schlatter & Sons, Lawler, Iowa.

BARRED Rock cockerels, bred from carefully selected matings; vigorous, fine, even barring; extra care taken in selecting cks. to suit customers; from \$2 up. **Chas. McCaskey, Route 2, Ogden, Iowa.**

WHITE ROCKS Trap-nested, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up, 15 eggs \$3, \$2 and \$1. Address **Rev. James A. Slack, Yorktown, Iowa.**

White Rock Cockerels \$2 to \$5 each. Few pullets and hens. Also some extra fine Bull Terrier pups. Address **F. H. ECKERT, CHARTER OAK, IOWA.**

WHITE PLYMOUTH ROCK cockerels for sale from Fishel strain and stock scoring 96. Price \$1 to \$2 each; pure white. **D. A. Good, Ogden, Iowa.**

MY WHITE PLYMOUTH ROCKS won 2 blues at Kankakee show last week. Write your wants today to **Hayward, Cooksville, Ill.**

Smith's Buff Rocks. Have a few scored cockerels for sale. Will close out right. Eggs in season. **C. F. Smith, Route 5, Griswold, Iowa.**

BARRED ROCK COCKERELS Scored and unscored. Also a few M. B. toms for \$5 each. **Mrs. J. A. Campbell, R. 5, Manning, Iowa.**

BARRED ROCKS Have some fine pullets, hens and cockerels for sale. Eggs for hatching in season. **Mrs. W. S. Kern, Iowa City, Iowa.**

Buff and Barred Rocks 85 large, blue cockerels, extra heavy-boned, scoring 88 to 94½; farm raised. **E. C. Rice, Gray, Iowa.**

SCORED M. B. turkeys; toms, \$5 up; pullets, \$3 up. From high-scoring stock. **White Rock** cockerels. **Sterling Martin, Melrose, Iowa.**

BARRED Rock cockerels, Bradley strain, cockerel mating. Choice stock for sale, from 90½ to 91½ point birds. **H. B. Simpson, Albany, Illinois.**

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of choice quality. Address **Mrs. M. C. Thompson, Route 2, Atlantic, Ia.**

400 B. Plymouth Rocks for sale; large boned; nicely marked. Nothing but first-class stock shipped; prices reasonable. **J. W. Wagner, Monroe, Ia.**

18 B. P. Rock cockerels; strong, vigorous birds, with great size and quality, and narrow, deep barring. Some show birds. **C. G. Good, Ogden, Ia.**

TURKEYS.

WHITE Holland turkey toms, extra choice ones, \$5; smaller ones, \$4; order from this advertisement. **Mr. and Mrs. H. E. Clark, R. 3, Dallas Center, Ia.**

50 White Holland Turkey toms, extra choice birds. Prices reasonable. Address **Mrs. H. A. Sexsmith, Greenfield, Ia.**

For Sale M. B. turkeys. Have bred them fifteen years; size, markings and a square deal our motto. **Mrs. Harry Davidson, Adrian, Mo.**

Mammoth Bronze Turkeys Choice young toms, \$7; hens, \$4. **J. Nissen, Meservey, Cerro Gordo Co., Iowa.**

MISCELLANEOUS.

Square Deal Poultry Farm

E. H. Rodley, Prop., Newton, Iowa. At Iowa State Poultry Show we won 4 firsts, 2 seconds, 1 third. Send for catalog of S. C. R. I. Reds, B. P. Rocks, M. B. turkeys, Toulouse geese. Cockerels, \$2 up. A few extra good trios, \$10.

COCKERELS AND PULLETS

FINE, large, early hatched breeders; farm range stock; Barred P. Rock, White P. Rock, Buff P. Rock and Single Comb Brown Leghorn. Circular free if you mention this paper. **C. E. MATTESON, Pewaukee, Wisconsin.**

MAMMOTH BRONZE TURKEYS AND PEKIN DUCKS

From Prize-Winning Stock for Sale. **George M. Grimstead, Mitchellville, Iowa.**

WANTED TO BUY

THOROUGHbred Leghorns, White and Brown, hens and pullets, and a few cockerels. Also R. I. Reds, Orpingtons, Red Caps, Cornish Indian Games, Hamburgs, Indian Runner ducks; other varieties. **Dean Swift Poultry Co., Des Moines, Ia.**

1910 CATALOG FREE

Illustrates and gives prices of 45 varieties land and water fowls and eggs. This book should be in the hands of every person interested in poultry for profit. Address **S. A. Hummel, Box 56, Freeport, Ill.**

There is Money in Eggs

START right. Get the laying and winning kind. Single Comb White Leghorns, Indian Runner ducks, large White Holland turkeys. Egg catalog free. **Mary Culver, R. 1, King City, Missouri**

FOR SALE

30 Standard-bred Barred Rock cks., weight 7 to 9 lbs., Shellabarger strain. Price, \$1.50 to \$3 each. 10 large-boned, well-marked M. B. turkey toms; Mo. King strain. Price, \$3.50 to \$7 each. 5 old turkey hens, \$4 each; 1 yr. tom, \$7.50. **M. V. Leeper, Redfield, Ia.**

COLUMBIAN Wyandottes, R. C. R. I. Reds, bred from New York, Chicago, St. Louis, Oskosh, Iowa State dams and Buffalo Center show winners. Prices reasonable. **N. Buffalo Poultry Yards, John A. Arends, Buffalo Center, Ia.**

White H. Turkeys Barred, white; P. Rocks, S. C. W. Leghorns, Pekin and Indian R. ducks, Toulouse geese. Stock and eggs for sale. We won 110 prizes and four silver cups the past year. **W. M. Shaw & Co., Monroe, Iowa.**

Barred Rock Cockerels, \$1 to \$1.50, according to weight. S. C. Brown Leghorn cockerels and pullets, \$1 each. Scored males of both breeds, \$2. **Geo. F. Blake, Maquoketa, Iowa.**

48 Breeds chickens, ducks, geese, turkeys. Fowls, eggs, and incubators at low prices. America's greatest poultry farm. Send 4c for the 80-page 16th Annual Poultry Book. **R. F. Neubert, Box 807, Mankato, Minn.**

ROUEN DUCKS For sale. Show birds or good breeding stock. Good B. P. Rock cockerels; large-boned, nicely-barred. Prices reasonable. **J. H. Howarth, Moulton, Iowa.**

BUFF COCHIN B. P. Rock cockerels, and White Holland toms, sired by a 35 lb. tom, and Pekin ducks. For good birds at a low price address **Mrs. J. E. Baxter, Walnut Grove, Minn.**

BARRED PLYMOUTH ROCKS Have some choice hens of leading strains. Also 35 Toulouse geese, best of stock. **Mrs. James Cockerton, Whiting, Ia.**

EGGS—All varieties; Leghorns, R. I. R., Orp's, Wyandottes, Moricas, Rocks, ducks, geese, turkeys. Cat. free. **Wm. Koell & Co., Box M, Hampton, Ia.**

PRIZE-WINNING stock. Mammoth W. Holland turkeys, W. Wyandotte chickens. Eggs for hatching in season. **Mrs. C. F. McLochin, Gray, Iowa.**

MAMMOTH Bronze turkeys. Large, heavy-boned birds. Some B. Langshans cockerels; also W. Wyandottes. **Mrs. A. Kitson, R. 2, Audubon, Ia.**

For Sale S. C. Br. cockerels, \$1 each. Rhode Island Red cockerels, \$1 and \$2 each. Address **John M. Hall, Blairsburg, Iowa.**

Barred Plymouth Rocks and Golden Wyandottes; 200 for sale. Get your order in early. **J. L. Todd, Route 3, Des Moines, Iowa.**

Choice W. Wyandottes and Mammoth Pekin ducks; scored; McClure strain. **E. S. DYAS, BELLEVUE, IOWA.**

BLACK and W. Langshans, Buff Orp's, R. C. R. I. Reds, Lt. Brahmas, M. B. turkeys, scored or unscored. Prices right. **Mrs. S. E. Newell, R. 6, Audubon, Ia.**

FOR SALE—Some extra fine pure-bred Rose Comb Brown Leghorn and W. Wyandotte cockerels. Write for prices. **LeRoy Cottew, Alta, Iowa.**

WHITE P. ROCK chickens, White Holland turkeys, Pekin ducks and Embden geese. Prices right. **S. M. Compton, R. 3, Newton, Iowa.**

Choice Silver Laced Wyandottes and Pekin ducks; scored; unscored. Prices right. **Mrs. F. R. McLaughlin, Manning, Ia.**

Barred Plymouth Rock, White Wyandotte, Houdan cockerels, \$1.50, \$2, \$2.50 each. Hens also. **W. C. Frazier, Atlantic, Cass County, Iowa.**

PRIZE-WINNING Pekin ducks for sale; never have been beaten where shown. Also S. L. W. cks. **Mrs. Edith Eggabroed, R. 1, Grundy Center, Ia.**

S. C. B. Leghorns Barred Rock cockerels, \$1 each. Address **Ida Hepp, Audubon, Iowa.**

Buff Rock cockerels, Pekin ducks and Embden geese. Prices reasonable. Eggs in season. **Mrs. Charles Steddon, Lacey, Iowa.**

B. P. Rock cks., \$1.25 to \$3 each; and a few Rouen drakes for sale at \$1.50 each. Also booking orders for eggs. **Robt. Hunt, Earlville, Iowa.**

Mammoth Bronze Turkeys, from heavy, high-scoring stock; Pekin ducks and Buff Cochins cockerels. **Samuel Locke, R. 1, Selma, Ia.**

Toulouse Geese Rouen and Muscovy ducks; either sex; prices right. **Frank J. Clous, Clare, Iowa.**

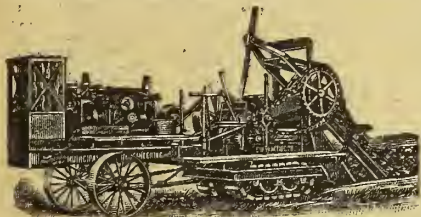
CHOICE M. B. turkeys, B. P. Rock cockerels and C. W. Wyandottes; large, heavy-boned stock, finely marked. **Mrs. H. J. Hess, R. 6, Waterloo, Iowa.**

White P. Rocks and Indian Games. Four first, 2 second prizes Iowa State Show. Cks. \$1 to \$3. **Hennessy Bros., Strawberry Point, Iowa.**

ROSE Comb Rhode Island Red, White Orpington cockerels; heavy-boned, extra nice large birds. Also Toulouse geese. **P. F. Smith, Montezuma, Ia.**

The Corn Planter Question.

The seeding conditions in the corn-growing states are not all alike. Some sections require the use of artificial fertilizers—other sections do not. Some soil requires a runner or shoe furrow opener; other land seems to demand a single or double disk for that purpose. Some growers "check" the corn in hills and other men plant the corn in drills. This has forced upon the manufacturers of corn planters the making of many different styles. The Hoosier Corn Planter line is admittedly one of the most complete in the world. Many of the most prominent corn growers go still further and openly declare the Hoosier Planter to be the most accurate and up-to-date planter on the market. There must be a great deal of truth in it, because the demand is constantly increasing and the words of commendation received show that the Hoosier is everything claimed by the manufacturers. At any rate, The American Seeding-Machine Co., Incorporated, Richmond, Ind., fully guarantees every Hoosier Corn Planter to do all that they claim for it. They simply must do the work right. Send to the makers for a copy of their Hoosier Corn Planter catalogue. Read it carefully, and then go to your implement dealer and insist on seeing the Hoosier.



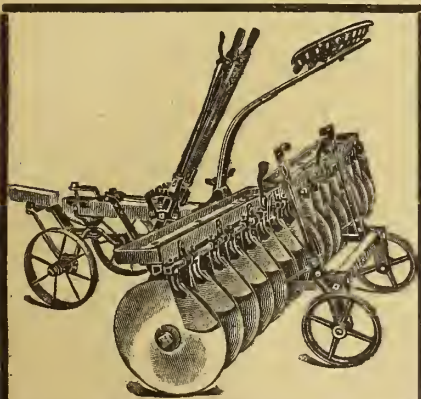
PURCHASE AN Austin Tile Ditcher

It will dig from 3,000 to 5,000 lineal feet per day and make you more clear money than the best 160-acre farm in your county. If you have decided to branch out for yourself this year, arrangements should be completed at once, as spring will be here almost before you know it.

The Austin Tile Ditcher is the only ditching machine made that has positively self-cleaning buckets, hence will dig gumbo or sticky clay without clogging.

It is self-propelling and will travel over wet and boggy ground without miring. For further particulars send for Catalog No. 311. Agents wanted in unoccupied territory.

F. C. AUSTIN DRAINAGE EXCAVATOR CO.
Railway Exchange, Chicago, Ill. (1)



THIS Transport Truck is a money saver for the farmer and enables him to drive his harrow over the roads without dulling the blades. It keeps the harrow in fine working condition, and it is cheaper to own one than to pay for having disk blades ground every season. Can be attached without wrench or hammer, and it only takes two or three minutes to slip it under harrow and hook it up. You should have a **Sterling Disk Harrow** equipped with one of these **Transport Trucks**. Write us for full description.

Sterling Mfg. Co., Sterling, Illinois.

TO BE ABLE TO GET OUR GOODS
WINSOR & NEWTON'S, Ltd.
LONDON

Artists' Materials
The **WATER COLOR BOX FITTED**
Ideal OIL COLOR BOX FITTED

With our colors and brushes, and book of instructions, by express paid for... **\$3 Each**
Office and Salesroom: 298 Broadway, New York, U. S. A.



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

PROFITS IN SHEEP.

The sheep business like other enterprises is subject to fluctuations, but it is exceedingly severe times when a small flock of sheep will not pay its way, since it gives two harvests, viz., lambs and wool, not to mention the benefits it bequeaths to the land in the shape of fertilizer and its value as a weed destroyer. A feeder recently remarked to the writer: "There is plenty of money in \$6 lambs when feed is the same price." Sheep consume less per hundred pounds of live weight than any other animal and at present are realizing considerably more per hundred pounds. Sheep and lambs may go down very considerably and yet leave a margin of profit to the breeder and feeder. A well-known breeder recently remarked: "I can put an equal number of pounds of sheep on the same pasture that a cow can be kept and the sheep will have made the most money at the end of six months, nine months, or one year."

One good thing about the sheep business is that one can start a small flock with very little capital and learn the business as he "feels his way." If he wants to go away on Sundays he can do so, as the milking hour does not come around in the sheep business, although at certain seasons of the year, the lambing must be continually on hand to insure success. The profits from the flock, of course, depend largely upon management.

Never were prospects brighter for sheepmen than now; wool and mutton are high and it looks as if the day of free wool and poverty-stricken flockmasters had gone for good.

Sheep are the least trouble of any farm stock, and it is safe to say that anyone who will give faithful attention to business can make money without drudgery from a flock.

No animal will redeem a farm from poverty so quickly as sheep, and there is plenty of land in this country that is useless for anything else but sheep or goat farms. A Kansas farmer, being asked what he did to get rid of the weeds on his farm, said that he sold most of them as mutton, at five and six cents a pound. Not only are sheep the animals to enrich the poor farm, but intensive sheep farming, under prevailing wool and mutton prices, will come nearer to paying 10 per cent dividends on high-priced farms than any other animal. As the writer stated some little time since, the sheep situation was never more satisfactory than today, nor has the industry ever had a more encouraging outlook. Wool is strong in all parts of the world and prevailing conditions are likely to enhance rather than weaken it. The mutton outlook is bright, with every indication of improvement. Sheep are quick of sale at good prices, and there are a good many more buyers than sellers. There is not a single weak point in the entire sheep and wool situation, and the sheep is proving itself worthy of its title—"The animal with the golden hoof."

There are today many people who from ten to twenty years ago started in the sheep and goat business with practically no capital who now find themselves in very easy circumstances and have demonstrated conclusively that the foot of both the sheep and the goat is golden. The flock which does not pay these days gets poor care. A few years ago it was a hard matter to find many who knew much about the eating qualities of mutton. Today we meet few who do not know that it is one of the finest meats on earth.

An English writer recently said: "Sheep raising in this country has

withstood the trials of the last twenty-five years in a wonderful manner and if ever the sheep were a profitable animal it still continues to be so," and what he says of his country is equally true of this. To succeed in the business one wants to stay with it year in and year out.—(Modern Sheep.)

ENSILAGE FOR SHEEP.

To the Editor of The Homestead:

One of your subscribers, Mr. W. J. Boret, sends the following communication:

I would like very much to have you discuss the value of ensilage for sheep. I am going to erect a silo this year and would like to know if I can figure on my sheep getting a share of it. If so, how much ought they be fed per day, each? Would corn silage and clover hay make a good ration for breeding ewes in winter?

Silage in its right place is the most perfect winter sheep feed that can be produced in the corn belt. I wish every sheepman in this country was in a position to feed silage and clover hay to the flock—the thrift of the average flock would be greatly bettered. The use of silage helps to keep up the appetite and general condition of the flock. Put up in this form, corn takes the place of roots and furnishes a larger and cheaper supply of food material from a given area than any other crop. It will yield about twice as much dry matter as a crop of roots grown on the same land, and it has been found by feeding experiments that the dry matter in corn silage gives as good results as that in roots.

All sheepmen who can, should have a silo because silage is so much more palatable to sheep than dry fodder and is more easily digested. The use of silage as a succulent food for sheep has given most excellent results and experiments in fattening sheep have shown that corn silage has given better results than rutabagas or Swede turnips. We believe that silage is the most desirable succulent food produced in the corn belt for both breeding and fattening sheep. Most of the adverse reports on silage are due to the use of green, immature plants and such silage apart from being sour, is of very low feeding value as compared with that made from the crop which was well matured before being harvested for the silo. Silage tends to keep up the same condition that is noticed when the sheep are out on green grass in the summer, and the cost of its making is not very great. It also takes the place of much grain which would otherwise be required. The amount to be fed depends much upon the desire of the feeder, some want to depend more on silage than others. It could be reasonably figured by counting about six full-grown sheep to a cow. Start them on it lightly and by watching them eat you can soon tell the amount required.

Howard Chandler.

AN IMPROVED DISK HARROW.

The disk harrow is a farm implement which has tested the capacity of the manufacturers to the limit. From a very crude beginning not many years ago it is now developed into a perfected machine which does its work well and with a minimum of horsepower. The advertisement of the American Harrow Company on page 23 sets forth some of the points of the tongueless Detroit-American. The present perfection of this harrow is due to the energy and enterprise of the American Harrow Company, who have neglected no opportunity and spared no expense to bring it to a point where it would satisfy them as a machine which performed its duties a little better than any other of its kind. As a tongueless disk the Detroit-American was introduced about five years ago. Its popularity grew from the beginning. The harrow as now sold is made almost entirely of steel, which will eliminate the breakage which has been so common among those having wood frames. The Detroit-American, perfected to the limit, is now sold direct to farmers at factory prices, with freight prepaid, and absolutely guaranteed. These conditions could not be complied with by the manufacturers were their harrow any other than the absolute success it is claimed to be. Complete descrip-



Lice and Parasites Cost \$175,000,000 a Year

according to the report of the United States Department of Agriculture. What the death loss is, due to poisonous germs of disease, can hardly be estimated.

The cry everywhere is clean up, disinfect, destroy all forms of parasites.

Dr. Hess Dip and Disinfectant

Deodorizes, purifies the air, kills all forms of disease germs in barns, hog pens, cow stables, chicken yards, sinks, drains, etc., simply by sprinkling it everywhere. One gallon diluted makes from 70 to 100 gallons. It also kills lice, mites, sheep ticks, fleas, also sheep scab, mange, eczema and other parasitic skin diseases. Meets the United States Government requirements for official dipping for sheep scab.

If your dealer can't supply you, we will. Write for circular.

DR. HESS & CLARK
Ashland, Ohio.



SHEEP.



SHROPSHIRE EWES

BUYING registered bred ewes pays if you get the largest and most typical, which raise rams good enough to build a trade. We offer young bred ewes that will make you money. Photos and full description. Won champion ewe, champion flock, recent Chicago International. Near Des Moines.

CHANDLER BROS.,
Charlton, Iowa. Shrewsbury, England.

IOWA'S PIONEER BREEDERS AND IMPORTERS OF SHROPSHIRE SHEEP

CHOICE IMPORTED and home-bred registered ewes. Bred to imported rams of the best quality; also rams. Prices reasonable, considering quality.

Daniel Leonard & Sons, Corning, Iowa.

Ewes for Sale

THE IOWA STATE COLLEGE is offering for sale 50 head of pure-bred and grade ewes, mostly Shropshires, at very reasonable prices. Address

DEPARTMENT OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.

Pine Ridge Shropshires One thousand ewes bred to the very best imported rams money could buy. These rams are prize winners, personally selected from the best English flocks last July. Prices reasonable. Write for free booklet, "Hints on Sheep Raising." Address owner, **L. M. Hartley, Pine Ridge Farm, Salem, Ia.**

HOME OF THE OXFORD DOWNS. Flock in its forty-eighth year, and finds the Oxford to be the money makers in the sheep family. Both sexes for sale. **T. B. Evans, Geneva, Illinois.**

Registered Shropshire Rams and Ewes For Sale. The best of breeding and quality. Best imported rams at head of flock. **Willard Miller, Anita, Iowa.**

CLOSING OUT SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. **W. C. Frazier, Atlantic, Cass Co., Iowa.**

tion, prices and information as to the guarantee may be had by filling out the coupon, which is a part of the advertisement, and forwarding it to the address there given.

ADVERTISING NOTES.

In a late issue of The Homestead there appeared an advertisement of the Henry Field Seed Company in which it was announced that the clover and alfalfa seed offered for sale was absolutely pure. Mr. Field requests us to say that while the seed which he offers for sale is remarkably pure the advertisement was in error in saying that it was absolutely so. Government tests, however, show that the clover seed is 99.6 pure and the alfalfa 99.5 pure. We believe that this percentage shows the seed to be as good as any that can be purchased.

Mr. Milton Taylor, whose advertisement of Mammoth clover seed appears on page 22, writes as follows: "I have been growing Mammoth clover seed for the past twenty-five years, in Linn county, Iowa, and have had good success with it both from the standpoint of profit from the seed and increasing fertility of the soil. I have found an increasing demand for seed, especially from Missouri, Kansas and Nebraska. The seed crop for the past season was very light, but of fair quality, there not being near enough grown in this state to supply the local demand. The seed I offer is guaranteed to be genuine Mammoth clover, grown on my own farm and having successfully passed an inspection by our state pure food commissioner. Farmers with run-down land are urged to try it. I am receiving some flattering reports from seed I have shipped out." For full information write to Mr. Milton Taylor, Center Point, Iowa.

The illustration that appears herewith shows a farm house roofed with metal shingles as made and sold by the Dickelman Manufacturing Company. These shingles are made in a variety of handsome designs of galvanized iron and make it possible to make



one of the handsomest possible roofs. No extra tools are necessary in the laying of this roof. They are made absolutely waterproof and are guaranteed to last for fifteen years without painting. These shingles are made in four-foot, six-foot and eight-foot lengths. They are provided with side lock and end lock and are, therefore, absolutely stormproof and waterproof. They have many other advantages, however, which may be learned by sending for a copy of the book of descriptions issued by the manufacturers. Write for it to the Dickelman Manufacturing Company, 70 Gormley St., Forest, Ohio.

STRAWBERRY PLANTS.

Mr. Chas. J. Mackey, of West Liberty, Iowa, has grown strawberry plants quite successfully for a number of years. This year he will offer a few choice varieties at very low prices. For free descriptive circular and book on strawberry culture address as above. See page 22.

GUARANTEED SEED CORN.

There is no use saying anything more about the need for care in the selection of seed corn for the coming crop. Everybody appreciates that. The question now is where to get it. This point is answered in the advertisement on page 20 of the Guaranteed Seed Corn Producers, at Plano, Ill. These gentlemen are selling tested seed corn of the Swastika variety which is highly recommended. It is described in full, together with much free information on the subject of corn, its development and cultivation, in a book which is sent free on request to the Guaranteed Seed Corn Producers, Dept. D, Plano, Ill.

THE DEVELOPMENT OF A SEEDSMAN.

Someone, who was supposed to know all about it, has said that "Poets are born and not made." The same is evidently true of seedsmen. There is a special capacity and adaptation to the business that is possessed by few men. One of these in which these points of excellence have shown themselves in Mr. Henry Field, of Shenandoah, Iowa, whose announcements are a prominent feature in the advertising pages of this paper every year. Mr. Field began to show an interest in the line of work which was later to become his life vocation, by growing flower seeds. This was something like a third of a century ago. His first effort represented a sale of something like fifty cents' worth of flower seeds. The small amount of business transacted, instead of acting as a discouragement, really infused new life into his business capabilities. The next year additional varieties were taken up and the sales were increased to such an amount that the net profits showed \$3.65. Continuous attention to all the details of the business has resulted in an institution which today employs more than 100 men, occupies a handsome fireproof building, and does a business which runs away up into the thousands of dollars annually. The actual and noticeable development, however, began only about ten years ago, at which time a remarkable growth commenced. While the seed corn business is the principal subject of endeavor, the Henry Field Company also handle garden, field and flower seeds of all sorts. The extraordinary

growth of this business is due to the splendid energy and especial fitness on the part of Mr. Field for the business mentioned in the beginning. At the present time handsome catalogs are issued which give complete details, descriptions and prices of all the seeds offered for sale and may be had by writing to the Henry Field Seed Company, Box 25, Shenandoah, Iowa. See page 21.

POTATO RAISING POPULAR.

Up to within the past few years potato raising was one of the more unpopular lines of farm industry because of the fact that it involved more back-breaking work than any other. Manufacturers and inventors of farm machinery, recognizing the situation, put their wits to work and have produced labor-saving machinery which is employed in all parts of potato raising and is so simple a matter that today potatoes may be planted, harvested and sorted with as little work as is required with any other crop. The Aspinwall Company were among the pioneers in making potato planting machinery. Now they produce cutters, potato planters with or without fertilizing attachment, sprayers and potato sorters, as well as other lines of machinery connected with the work, all of which, however, are fully described in a free book telling how to make money growing potatoes. The book may be had by applying to the Aspinwall Manufacturing Company, 459 Sabin St., Jackson, Mich.

LUMBER AT WHOLESALE.

The city of Dubuque, Iowa, now has the reputation of being the greatest lumber center of the United States. It is said to have a greater number of mills, the output of which exceeds that of any other lumbering city. These facts are of interest in connection with the advertisement of the Peter J. Seippel Lumber Company, which appears on page 6. This company sell lumber direct to farmers at prices which will justify an examination of their goods and methods. They are satisfied with reasonable profits; they sell lumber which is up to grade and which has not been picked over nor resorted and it has not gone through the hands of jobbers or dealers. Readers of The Homestead who contemplate building will do well and save money by making a trip to Dubuque and examining into the situation there. The advertisers announce that they will pay the round-trip railroad fare, together with entertainment while there to those who buy as much as a car load. They treat all alike in the matter of price and guarantee satisfaction in all cases. For further particulars write to the Peter J. Seippel Lumber Company, Dept. 10, Dubuque, Iowa.

ROBERTS' HOME VETERINARIAN.

At the present time, when the value of all farm live stock has reached such a high level that the preservation and improvement of the cattle, horses, hogs and sheep of the farm becomes a necessary duty, it is a pleasure to refer our readers to some means of assisting them to perform this duty. Such an assistance is given in Dr. Roberts' Practical Home Veterinarian, which is described at some length in the advertisement of Dr. David Roberts which appears on page 27 of this issue. Dr. Roberts is a veterinarian of acknowledged superiority. Not only has he perfected himself in the greatest veterinary colleges of the United States, but he has, through an extended practice, accumulated a fund of information with reference to live stock and live stock diseases such as has been gotten together by few other men. He has been wonderfully successful in his treatment of those diseases which have been most feared by other veterinarians. While giving careful attention to all the common affections he has gone farther into the causes for all the diseases than any western veterinarian. The results of his extended experience are set forth in a plain, practical way in the book referred to. He describes in careful detail the diseases of cattle, hogs, horses and sheep, their symptoms, methods of treatment and remedies to be used. The book contains so much that is of value that it should find a prominent place in the library of every farmer. At this time when tuberculosis is proving so troublesome to cattle-raising people it will be of interest to know that this book contains as much and as valuable information on the subject as can be found between the covers of any book. In addition it gives advised methods of treatment, with instructions as to how to apply the tuberculin test and complete information as to the correct line of observation following the application of the test. The book, however, is so replete with important information that there

is scarce a subject that it does not touch upon. Dr. Roberts, for reasons which will be brought out later, will send a durably-bound copy of this book which contains 180 pages free to every reader of The Homestead who will fill out the blank coupon which appears in the advertisement and forward it to Dr. David Roberts Veterinary Company, 724 Grand Ave., Waukesha, Wis.

A HEAVE REMEDY.

The advertisement of the Newton Remedy Company on page 18 offers a guaranteed heave remedy at the low price of \$1 per can. It can be found at any drug store or will be sent prepaid by express by the Newton Remedy Company. This company have spent a great many years in the investigation of heaves in particular and their conclusions are set forth in a booklet called "Horse Troubles." This book gives not only the original causes and symptoms on heaves, but all other common collateral effects and the reasons why Newton's heave, cough and distemper remedy cures them. The book may be had free of cost by writing to the Newton Remedy Company, Toledo, Ohio, mentioning this paper.

THE SUMMERS TESTED SEEDS.

The advertisement of the Summers Seed House, of Malvern, Iowa, will be found on page 21 of this issue. This is a concern which, while not so old as some of their competitors, have built up a reputation that makes it of immense importance to seed buyers. The Summers Seed House sell tested field seeds and seed corn, making a specialty of the latter. Every effort is made to secure the very best of the better varieties, to test them thoroughly and to supply patrons with seeds as good as the market affords. The selection and testing is in the hands of men who are well versed in that line of business, graduates of the Iowa Agricultural College, having special education in the necessities of case. For 1910 the company have printed an entertaining and instructive catalog giving descriptions of the seeds they have for sale, together with other very valuable information. The catalog will be sent free to all who write for it, addressing the Summers Seed House, Malvern, Iowa.

IMPORTANT FACTORY TRANSFER.

The information is but recently given out that the great David Bradley Manufacturing Company has been purchased and taken over by Sears, Roebuck & Co., of Chicago. The David Bradley Company was one of the greatest institutions engaged in the manufacture of agricultural implements. It was established in Chicago more than half a century ago and has from time to time been so greatly enlarged both as to manufacturing facilities and the line of goods that today it stands almost without an equal. Sears, Roebuck & Co. announce that they will still further increase the facilities of this concern. The factory is now located at Kankakee, Ill., and is really a little city in itself. The principal output of the Bradley factory has been plows, cultivators, disks, harrows, drills, planters and, in fact, a full and complete line of farm implements. The taking over of this big institution by Sears, Roebuck & Co. means that farmers who deal direct will be able to secure greater advantages than ever before in the economical purchase of farm machinery.

AN IOWA BEAUTY.

Every lover of flowers will revel in the delights of the beauties shown in the splendid new catalog for 1910 of the Iowa Seed Company, of Des Moines, Iowa. The first page of this book is a work of art. It shows a wonderfully natural reproduction in colors of six of the most beautiful roses grown. These roses comprise what the company call their triumph rose collection, including one Black Prince, one Frau Karl Druschki, one Helene Cambier, one Henri Martin, one Triumph and one Francois Levet, and is sent to any address prepaid for the wonderfully low price of seventy-five cents. The detailed description shows that the collection is one of extraordinarily high value and includes the most popular roses extant. This, however, is but a single instance of the hundreds of specialties described in the catalog. The Iowa Seed Company have been in business constantly since 1865. They are absolutely responsible and the character of the seeds sold is guaranteed by a \$10,000 bond which is deposited in the Century Savings Bank, of Des Moines, Iowa. This guarantee bond is an unusual plan of making the buyer safe. It is one which should lend attractiveness to the seeds they offer because it gives added force to the purity of the seeds as required by the

laws of the state of Iowa. Our readers who want the latest in seed corn, field seeds, garden seeds, plants, bulbs or vegetable seeds should not fail to secure a copy of this catalog. It may be had free of charge by writing the Iowa Seed Company, Dept. D 1, Des Moines, Iowa. See page 22.

THE OVERLAND CAR.

The advertisement of the Overland car which is sold at the low price of \$1,000, will be found on page 11. The story of the advantages of the Overland is a long one, but it is one which the writer, who is privileged to use one, is glad to dwell on at considerable length. One of the first points is that it is of such absolute simplicity and so automatic in its action that it can be easily operated without expert experience. So popular has this thousand-dollar car been that the manufacturers have now orders booked for them to the amount of \$24,000,000. Four thousand men are engaged in the manufacture, and thirty car loads are shipped out every day. The four Overland factories have a floor space of thirty acres, yet with all this capacity it seems almost impossible to turn out enough cars. We want farmers to investigate the merits of the Overland and appreciate it as we do. To help them do so they should get a copy of the book entitled, "The Wonderful Overland Story." This may be had by writing to Mr. F. A. Barker, sales manager, Willys-Overland Company, Toledo, Ohio.

A SPEED GOVERNOR.

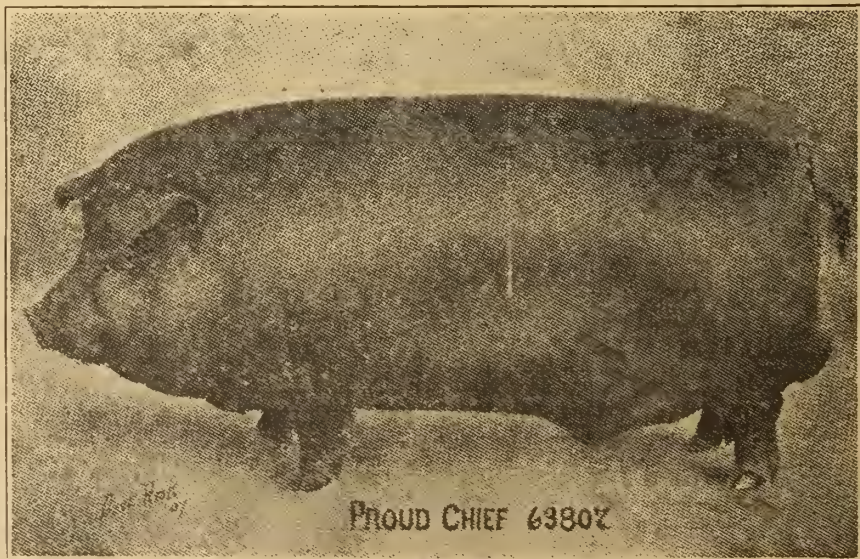
One difficulty which is most common in the application of power to the various farm machinery has been that of adjustment of the power to suit the purposes of the machine. It has been particularly so in the case of power furnished by gasoline engines and as applied to cream separators. This difficulty is fully remedied by the Strite pulley as advertised on page 27. This pulley is a speed governing pulley which contains within itself a novel and valuable feature in its slow starting of the cream separator. The engine may be started instantly at full speed, but the Strite pulley will gradually increase until the normal or desired speed is reached. This pulley not only starts the separator slowly, but it controls the speed at all times regardless of variations in the engine or line shaft. Through the use of the Strite governor pulley the life of the cream separator is lengthened, the capacity of the machine increased and a more uniform grade of cream produced. These are advantages not to be secured by hand turning. If your dealer does not sell the Strite pulley write for further particulars to the Strite Governor Pulley Company, 327 South Third St., Minneapolis, Minn.

EVERGREENS FOR FARMERS.

With all its numerous advantages there is certainly a lack of appreciation of the evergreen as a means not only of beautifying the farm, but also of its merit as a windbreak. For the latter purpose it is unequaled by any other tree. These facts should lead our readers to take particular notice of the advertisement of the Bristow Nursery Company, on page 22 of this issue. This advertisement gives particulars of a bargain price list of evergreens and a few other reliable trees. These trees are sold under a guarantee which makes the buyer perfectly safe under any circumstances. The Bristow Nursery Company are one of the older ones in Iowa and enjoy the position of being conducted by an evergreen specialist of forty years' time. The collections named in the bargain list can be procured nowhere else as cheaply and in addition to that the cost of carriage is prepaid by the shipper. It should be remembered that this offer is merely a temporary one and cannot be continued for any length of time and for that reason orders should go at once. Read the advertisement and forward the price of the bargain which you select to the Bristow Nursery Company, 210 Bridge St., Hampton, Iowa.

PURE SEED CORN BRED BY PETTY BROS.

It is with pleasure that we have the opportunity of introducing to our readers the firm of Messrs. Petty Bros., Liberty, Mo., gentlemen who are seed corn breeders. These gentlemen are not novices in the breeding of seed corn; far from it. For several years past they have bred three varieties of corn, each year working to make each variety true to type and when we last week visited at their warehouse and farms we were surprised at the work these gentlemen are carrying on so successfully. They own the farms that produce the corn they offer, they handle no other corn than that produced on their farms and they guard each farm carefully so that no off corn is introduced. A corn that Messrs. Petty Bros. think much of is their Clay County White, a variety that has been grown pure and along scientific lines for sixteen years. This is a medium large corn with deep grains and is a very heavy-yielding corn. Petty's Early Dent, a ninety to ninety-five-day yellow corn, is a variety the writer was much impressed with. The ears, like all the Petty corn, are medium large, are uniform and true to type; in fact, a more perfect crib of corn is difficult to find than this crib of Petty's Early Dent. Petty's Eclipse, another yellow variety, is one that will please farmers who want a hardy, heavy-yielding corn. These yellow varieties have been bred by Messrs. Petty Bros. for from five to seven years and have been perfected from seed that was kept pure, years before they took hold of the breeding of corn as a specialty. It has been the aim of this firm to bring their corn to a certain high standard and in this they have been very successful. They are taking as much care of their corn after growing as during the growing season. Every ear of their corn was gathered and housed in perfect curing cribs before the fall snows. It was at that time hand picked. When sufficiently cured it is tipped and butted, then carefully graded through a good grader. It is then tested, samples being taken at random and the tests have shown from 98 to 100 per cent fertile corn. Our readers who want seed corn this spring will find the Petty Bros. corn a corn that will give satisfaction. In former years they have sent corn in every direction and in every instance the results have been little short of phenomenal. They sell corn of their own production only. This year they have 10,000 bushels selected from 25,000 bushels, and when the 10,000 bushels are sold they have no more corn to sell. The prices of \$2 per bushel for high grade, \$2.75 for extra select and \$1.75 for graded ears will



AGENTS WANTED Salesmen and saleswomen calling on farmers and gardeners; splendid new line; easy seller. Send for circulars and booklet. Salary and commission to parties. Apply to Standard Nitrogen Co., 600 705, Singer Building, New York, N. Y.

Proud Chief, the greatest living son of Ohio Chief and Proud Lady, to be sold in the E. Z. Russell sale at Blair, Neb., on February 14th. This boar stands today the greatest breeding boar that will be sold in any public sale. As a sire he stands today second to none in the business, and it will be a great opportunity for somebody to buy a great Duroc Jersey herd boar. See page 63 for advertisement.

LANDS AND HOMES FOR SALE

IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advance so rapidly in price. Illustrated literature. Write today. Eugene T. Thomson, Crawford Block, Sedalia, Missouri.

IRRIGATED LANDS In Colorado, under perfect ditch system. Unsurpassed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R. R. Superior local and foreign market. In tracts from 5 to 1,000 acres, at \$100 and up. **ORDWAY LAND CO., ORDWAY, COLO.**

FINE FARM FOR SALE—350 ACRES

IN best part of Northeastern Iowa, with \$6,000 improvements, \$75 per acre. Will take income property for one-quarter and carry one-half at 5 per cent optional payments. P. O. Box 305, Waterloo, Iowa.

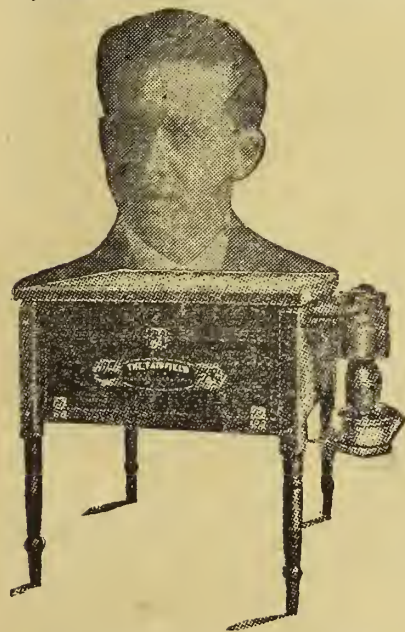
be found very reasonable for the quality of their corn. We recommend this firm to our readers and we candidly believe their corn is all and more than they claim for it. Do not delay your orders, as these 10,000 bushels will not last long. See page 22 for their advertisement and address and remember that these gentlemen are absolutely reliable in every way.

A DISTEMPER CURE.

Craft's distemper cure, as made and sold by the Wells Medicine Company, is advertised on page 18 of this issue. The Wells Medicine Company are not new candidates for favor with our readers, nor is Craft's Distemper Cure, which they advertise. So little information can be given in an advertisement that the advertisers announce they will be glad to send free to our readers three valuable books which they have prepared after years of experience treating the diseases of hogs, sheep and dogs. These books cover the entire range of animal diseases and may be had upon receipt of a postal card request to Wells Medicine Company, 18 Third St., LaFayette, Ind.

FAIRFIELD INCUBATORS.

The Fairfield incubator has met with such a flattering reception that its merits are at once acknowledged. It is built properly, of the right materials, on scientific principles and, therefore, performs every service which is required of a good and successful incubator. The reasons for these results are that they have been worked out by Mr. Sam



Thompson, president of the Nebraska Incubator Company, which make and sell the Fairfield. Mr. Thompson advises us that in order to more easily satisfy farmers who have not yet conceded the importance of an incubator he will send a Fairfield on thirty days' trial with the absolute guarantee to refund the money promptly should anyone be dissatisfied with the results. For complete information with reference to this trial proposition and the handsome new catalog and poultry book address Mr. Sam Thompson, president Nebraska Incubator Company, 127 Main St., Fairfield, Neb.

SCHMAL MAKES \$31 AVERAGE.

Mr. George Schmal, of Sutton, Neb., made an average of \$31 per head in his first annual Duroc sale on February 1st. Farmers were slow bidders, a fact which would have been reversed had the sale been thirty days later, and it would have been a better time for Mr. Schmal, as many of his gilts were small. The top price of the sale was \$63, paid by Mr. Geo. W. Schwab, of Clay Center, Neb., for Miss Fanny. Colonel Callahan worked hard toward the success of the sale. List of sales at \$30 or more is here given:

Lot.	Price.
1. Geo. Briggs	\$60
2. Joseph Wachter, Sutton, Neb.	51
3. Geo. W. Schwab, Clay Center, Neb.	63
4. Fred Mauw	39
5. Gilbert McPeck, Shickley, Neb.	48
6. Geo. W. Schwab	35
7. John Bayne, Aurora, Neb.	41
8. Herman Wachter, Sutton, Neb.	35
9. Fred C. Mauw	36
10. Alex Battell	40
11. J. P. Mulvihill, Sutton, Neb.	43
12. Ed. French, Sutton, Neb.	35
13. C. J. Ely, Sutton, Neb.	37
14. A. W. Larson, Geneva, Neb.	35
15. Chris. Grosshans, Sutton, Neb.	30

Ask your neighbor to subscribe for The Homestead.

WESTERN CANADA

What J. J. Hill, the Great Railroad Magnate, Says About Its Wheat-Producing Power:

"The greatest need of this country (United States) in another generation or two will be the providing of homes for its people and producing sufficient for them. The days of our prominence as a wheat exporting country are gone. Canada is to be the great wheat country." J. J. HILL.

This great railroad magnate is taking advantage of the situation by extensive railway building to the wheat fields of Western Canada. Upwards of 125 Million Bushels of Wheat were harvested in 1909, and the average of the three provinces of Alberta, Saskatchewan and Manitoba will be upwards of 25 bu. per acre. Free homesteads of 160 acres, and adjoining pre-emption of 160 acres (at \$3 per acre), are to be had in the best district. Schools convenient, climate excellent, soil the very best, railways close at hand, building lumber cheap, fuel easy to get and reasonable in price, water easily procured, mixed farming a success. Write to best place for settlement, settlers' low railway rates, descriptive illustrated "Last Best West" to Sup't of Immigration, Ottawa, Canada, or to the Canadian Government Agent. (8) W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.

Colorado Irrigated Land

22,000 acres of irrigated Government land in Southeastern Colorado has recently been opened for entry under the provisions of the Carey act. The State of Colorado has contracted with the Two Buttes Irrigation and Reservoir Company to construct the irrigation works for the reclamation of this tract of land, which is located in Baca and Prowers counties, close to Rocky Ford and other proven districts. Water rights are of incontestable priority and title to land comes direct from the State.

Price of Land 50 Cents Per Acre

Perpetual Water Right \$35 Per Acre

Payable \$5.25 per acre cash, balance in ten annual payments. The tract is nearer Kansas City and Mississippi Valley markets than any other Carey act project. Land free from brush and stone, and soil will average 50 feet in depth. Altitude, 4,050 feet; climate best in State; rainfall 16 inches; crops, all grains, alfalfa, sugar beets, vegetables and fruit; no alkali. Local markets for everything. No agents employed and no commissions paid. Farmers wanted, not speculators. For particulars write,

THE TWO BUTTES IRRIGATION AND RESERVOIR CO., LAMAR, COLORADO.

Bankrupt Sale--1,080 Acres Iowa Land

THE undersigned, trustees in bankruptcy of the estate of Oscar M. Hartzell, bankrupt, will, by the order of the court, sell at private sale, free and clear of liens, the following described real estate, situated in Madison County, Iowa, to wit: All of Sec. 14, except schoolhouse site; the E. ½ of Sec. 15, and the N. E. ¼ of the S. W. ¼, and the S. ½ of the S. E. ¼ of Sec. 10, all in Twp. 77 N. of R. 26, W. of the 5th P. M. The above real estate will be sold in tracts of 80, 160 or 320 acres, to suit purchaser. Bids on the land will be received by said trustees at the office of the Corn Belt Land & Loan Co., 2d Floor Crocker Bldg., Des Moines, Iowa, up to and including February 15, 1910. This farm is well improved; well fenced and cross-fenced; well watered by streams, springs and wells, and is well calculated for general farming and stock. It lies 2½ miles S. W. of Cumming, Iowa, and about 15 miles S. W. of Des Moines, and about 18 miles N. E. of Winteret, Iowa. The trustees reserve the right to reject any and all bids, and any bid acceptable to the trustees, and any sale made thereunder will be subject to the approval of the court. The lands must be sold to settle the estate.

Frank L. Hall, L. J. Kleim, A. F. Brown, Trustees.

WRITE FOR ILLUSTRATED BOOK ABOUT COLORADO

Fruit, Garden and Poultry Tracts adjoining Denver, under the Antero Irrigation system. The best, surest and safest investment on the market. Denver is the best market in the world.

5, 10 AND 20-ACRE TRACTS

SOLD ON THE EASY PAYMENT PLAN

Will pay for themselves in a few years. \$300,000 worth sold in the past six months. We give you the names of 100 who have bought, for reference. Endorsed by the Governor. Refer to local banks. ALTURA FARMS, 210 Ideal Building, DENVER, COLORADO.



We Want YOU

We want a good, live man to handle real estate and loans in your vicinity. Farmers make the best real estate men. You can make more money selling farms than farming them. Hustlers make

\$3,000 to \$10,000 a Year

You can do the same. We teach you the real estate and loan business by mail so you can handle real estate and loan deals for us. The big commissions we pay you will make you independent. This is a golden opportunity for you. Write for Free Book today.

Instruction Department,
MORDEN LAND & LOAN CO.,
538 Palace Bldg., Minneapolis, Minn.

Sacrifice Sale

ILLINOIS FARM of 320 acres, or divided into 160-acre farms. Rich bottom land; does not overflow; close to market. This land must be sold soon. A fine opportunity for investment; small amount cash. Address the owner.

A. M. HANSEN - FULTON, ILLINOIS.

Virginia Farms and Homes

FREE CATALOG OF SPLENDID BARGAINS.
R. B. CHAFFIN & CO., Inc., Richmond, Va.

CALIFORNIA CAPTURES THE COMET

IRRIGATION PROJECT SACRAMENTO VALLEY

developed for you.

Think about it. Fail to do so and you make the most serious mistake of your life. The Kuhn's are irrigating 400,000 acres in the Twin Falls Country, Idaho. Following this great success they will irrigate 250,000 acres in the Sacramento Valley. They are spending millions to make little home farms for a million people. Settlers are arriving daily and will plant crops this season. Act promptly. Your eyes will be opened to wonderful possibilities.

H. L. HOLLISTER

DEPT. 1

205 La Salle Street

CHICAGO, ILL.

Enclosed find ten cents for 48-page book in colors "California—Now or Never."

Name

Address

800-ACRE STOCK AND GRAIN FARM

TWO miles two railroad towns; 2 miles to trolley line; 480 acres rich creek bottom and second bottom; black loam soil; does not overflow; best of corn, alfalfa and wheat land; 300 acres fenced hog tight, with good cross-fenced; two sets improvements; would make two good farms; No. 1 seven-room house; three good barns, good condition, room for 54 head of stock tied; never-failing well, soft water; three water tanks; 84-barrel supply tank; plenty bearing fruit trees; good housed stock scales and stock yards; 20 acres good timber, last a lifetime; never-failing supply natural gas to run all machinery, light and fuel. No. 2 improvements; good seven-room house; good water; good barn; barn 30x40, capacity 3,500 bushels grain, 12 tons hay; oat granary; cow shed; some fruit; one-half section pasture land; 200 acres limestone and 120 acres sand stone; grass; suitable to be made into a good farm; fenced with 4 galvanized wire; bedges, posts one rod apart. The natural gas sold from the 800 acres is \$1,000 cash in advance each year and free fuel for house, 175 acres fine growing wheat. The crops for 1909 will show the real value of this farm. It will be priced on good interest paying basis, one-half cash, balance time if desired, to suit purchaser; low interest; 200 registered cattle; 300 head hogs; all stock priced with or without farm. Want to retire from business. No trades considered. Come and see me.

R. M. DOBSON, OWNER, INDEPENDENCE, KANSAS.

A PARADISE RECLAIMED

15,000 ACRES ACTUALLY IRRIGATED IN THE

BEAUTIFUL PECOS RIVER VALLEY OF TEXAS

DEEP, rich soil; abundance of water; delightful climate. Right on Santa Fe railroad; station in center of the tract. DAM, RESERVOIR, CANALS, ALL COMPLETE NOW. Free water with every acre. Selling fast. Act quick if you want an actually irrigated farm cheap, or an investment that will pay you 50% annually. Excursions and cheap rates first and third Tuesdays of each month. Most desirable irrigated land and town site proposition on the market today. Send for interesting booklet. Tells you all about it. Good live agents wanted in every locality.

ARNO IRRIGATED LAND CO., TOPEKA, KANSAS.

HOMESEEKERS

WHY go to the frozen North or to the humid, malaria-stricken South when you can buy land just like your Iowa land; land that is growing just the same crops of corn, oats, wheat, that your Iowa land is growing; the same markets, same climate, ample rainfall; land that will sell for just as much per acre as your Iowa land within five years, that you can buy now for from \$15 to \$35 per acre. I have 8,000 acres of Indian deeded land in the Rosebud country of South Dakota, in Gregory, Tripp and Mellette counties, that I am offering at reasonable prices and terms. I want a few more hustling, reliable agents. If interested, write.

HARRINGTON, Iowa Building, SIOUX CITY, IOWA.

302 ACRES FINE BUILDINGS EASTERN KANSAS \$7,500

WE acquired recently a 302-acre farm in Elk Co., Kansas, which we are anxious to sell before the 1910 lease takes effect March 1st. We have been holding it at \$9,000, but will sell at \$7,500, ½ cash with deed, or ½ cash with contract. ½ is tillable and has fine pasture with unusually fine water supply. Buildings extra good and worth \$2,000. Write for full particulars. Inland Security Company, 1110 Commerce Bldg., Kansas City, Missouri.

LAND OPENING

IN the famous Arkansas Valley, Colorado. Our irrigation system is one of the best, and our land as fertile as any in Colorado. A reasonable number of tracts now offered at \$30 per acre, with perpetual water right, on terms without interest. This land will quadruple in value within a few years. Close to R. R. and markets. Your railroad fare refunded if you buy. Write for map and booklet. Agts. wanted.

MONSON & MALCOM REALTY CO., 300 Kiltredge Building, Denver, Colorado.

MUST BE SOLD AT ONCE

ONE of the best breeding ranches in the United States. 900 acres, 450 acres in alfalfa, in Republican valley, Neb., 4 miles from city of 5,000. Two good residences, breeding barns, elevator, with engine and complete grinding equipment. \$60 per acre, terms to suit. A prize-winning herd of Herefords can be purchased if desired. Owner wishes to retire. Don't write unless you mean business. 219 Main Ave. Bell phone 326. E. J. Mitchell, McCook, Neb.

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also ¼ section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana in Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit; truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops. NO IRRIGATION SCHEME, 60 inches annual rainfall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Some thing growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. J. D. LABRIE, Gen'l Land Agent Plaquemine, La. Co., 533 Keith & Perry Bldg., Kansas City, Mo.

FREE 200 PAGE BOOK ABOUT MINNESOTA

COMPILED by the state, describing industries, crops, live stock, property values, schools, churches and towns of each county, and Minnesota's splendid opportunities for any man. Sent free by

State Board of Immigration, Dept. N State Capitol, St. Paul, Minnesota.

HOMESEEKERS

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LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

One of the January magazines contains a short story which has a more or less direct bearing upon two topics which have been under discussion recently Among Ourselves. I propose to tell this story of "Joshua's Sotness," here With the Editor. If, later on, the friends care to comment upon it with regard to either Joshua or Lee Frances why, well and good.

"Joshua's Sotness" is after the style of "Sally Ann's Experience," a story which had tremendous vogue a few years back. The writer, Mary Heaton Vorse, puts the story in the mouth of Mrs. Griscom, who is reminded by a stuffed bird of a never-to-be-forgotten experience which she proceeds to relate.

Mrs. Griscom, shortly before telling the story, had returned from a visit paid to her cousin, Lee Frances, who was married to Joshua Perkins, the hero of the story. On being welcomed by Lee Frances, Mrs. Griscom noticed with "half an eye sumthin' was wrong." It was not that Lee Frances had aged; it was that there was "a kinder worried, pestered-to-death look in her eye that nuthin' but worry brings."

After awhile it all came out. Lee Frances took the visitor into her own room and showing her a pair of overalls lying in the middle of the floor pointed to them saying they had been lying there for three days, Joshua had placed them there and bade her not touch them.

He says he can't find none o' his clothes; he can't never find nuthin' belongin' to him. He is always growlin' and grumblin', alwus hez been about my puttin' things away. Here I been married goin' on thirty-five years, Umy; there ain't a day o' my life gone past that he ain't gone for me about hidin' his things an' puttin' of his things away. You'd think he'd got tired out in all them years, wouldn't you?

"No," says I, "Lee Frances, I wouldn't. There ain't a man livin', not a husband, anyway, 'cause there's sumthin' 'bout bein' a husband that makes ev'ry man kind o' queer. Land," says I, "ain't I dressed Russel Griscom with these two hands like he was a new-born babe, gettin' him ready fer church? Ain't his best hat stood on the same shelf for most twenty years and don't he sing out to me, 'Umy, where's my hat?' regular? There's sumthin' 'bout bein' a married man that makes it so; he can't put away his own things and he can't find them when you put them away. 'So, if that's all the matter you needn't take to worryin', Lee Frances."

Lee Frances explained that the trouble was Joshua had said he was not going to put anything away any more ever; that he meant to find things where he put them, and that he had been so quiet—"talkin' like folks in a magazine"—that she had been in a sort of tremble ever since. Mrs. Griscom had no patience with such foolishness. She picked up the overalls and handed them to Lee Frances, who took them and put them away.

After supper that night Joshua asked his wife—"speaking as perlite to Lee Frances as if she was a total stranger"—where she had put his overalls; that he couldn't seem to see them. Lee Frances replied that she was afraid one or the other of them would trip over the overall galluses, and so she had hung them up. His caustic, "Ah, you decided to hang them up?" stirred the woman and she retorted:

"Yes, I did, Joshua Perkins. I ain't goin' to be scairt no longer—I got tired walkin' round them overalls. If you want to know where to put hands on your things, jest you put them away yourself. Ef you put them away I'll promise not to, but you got to promise to put them away."

It was a rather delicate situation for a visitor to witness, but Mrs. Griscom pretended not to hear and after a little the air cleared and the evening passed off pleasantly. The next day Lee Frances laid away Joshua's things and went about the house "feelin' quite spry." "Umy," says she, "it's

jest worked like a charm. I wish I'd had sense before."

The two women were so "tickled with themselves" they thought themselves too smart to live. It was the pride which goes before a fall.

(To be Continued.)

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Talmud: Avoid anger and thou wilt not sin.

Lincoln: Be sure to put your feet in the right place, then stand firm.

Happiness and completeness in life cannot be bought. It is a supreme gift, the free reward of character and a loving, unselfish service. The constant and ceaseless response to the needs and claims of those about us is simply living in the completeness of life. It is expression, it is joy, it is privilege. It is participation in the higher purposes of the universe. It is spiritual development. Loving, outgoing sympathy is simply that diviner atmosphere into which it is our higher privilege to enter.

WHAT IS THE HARM IN CIGARETTES?

Ask the doctor, he will tell you that cigarettes make the heart weak and the nerves unsteady, they affect the eyesight and impair digestion.

Ask the athlete, he will reply, "If you expect to make your mark in athletics you must let the cigarette alone."

Ask the educator, he answers that the habitual cigarette user cannot keep up with his classes.

Ask the business men if it makes any difference to them if employees use cigarettes, and hear the chorus of voices in response.

Burbank, the plant wizard; Professor Moore, of the United States Weather Bureau; Edison, the famous electrician, all add their protests to those of railroad and street car managers; superintendents of factories and proprietors of great business houses unite in saying that cigarette users cannot be depended upon, physically, intellectually or morally.

OPTIMISM.

It isn't just the wish to do your best, It isn't just the hope to get along, It isn't just the good will in your breast, And it isn't just the promise to be strong.

It isn't just believing all is well, It isn't just deciding to be glad, It isn't merely lingering to tell, The luckless it is foolish to be sad.

It is earnestly assisting where you may, It is brightening the places which are drear, It is working so that all along the way The good you have accomplished may appear.

—Chicago Record-Herald.

CAKE MAKING.

If a cake falls in the center the opening of the oven door and the consequent rush of cold air may account for it; too much baking powder may have been used, or the mixing may be at fault. Never slam or bang the oven door when a cake is inside.

When baking sponge cake do not open the oven door for at least twenty minutes after the cake is first put in, for it will stop rising and spoil the cake. Always bake sponge cake in a moderate oven, and it is ready when it begins to shrink from the sides of the tin. Cakes made light with baking powder, soda or beaten eggs should be baked as soon as mixed. Therefore, they should not be mixed until all the ingredients are prepared and the oven heated.

A quick oven will burn a gingerbread in a very short time, and is sometimes the cause of heavy pastry, and will cause a hollow in a very light cake.

The fruit in solid cakes will sink to the bottom if they are put in a slow oven. Heavy streaks through a cake will undoubtedly appear if the butter and sugar are not thoroughly creamed; or if the butter is not properly rubbed into the flour.

Before beginning to mix cakes at all, see that the tins or molds are carefully prepared. For rich cakes the bottoms and sides of the tin should be lined with double paper cut to the size and well buttered. For plain cakes have the tins perfectly dry, well greased and dusted out with flour and the paper dispensed with.

SANDWICH FILLING.

Grind together a cup of English walnut meats, the whites of six hard-boiled eggs and three tablespoonfuls of chopped sweet pickles. Mash the yolks, add one teaspoonful of salt, one-half teaspoonful of pepper, one of prepared mustard, one tablespoonful of melted butter and thin with one-half cupful of vinegar. Mix all together and spread on thin slices of bread.

CHOCOLATE TAPIOCA.

To make this toothsome dessert wash half a cupful of tapioca and soak for several hours in cold water; drain, pour on boiling water and cook until clear. Add a cupful of sugar, a tiny shake of salt and two ounces of shaved chocolate. When the chocolate is melted and well mixed with tapioca, add the well-beaten whites of two eggs; stir in lightly

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You can make a full pint of cough syrup in five minutes by this recipe—enough to last a family a long time—at a cost of only 54 cents. It is not only cheaper, but better, than the cough medicines you buy. Its taste is pleasant—children like it. It stops obstinate coughs in a hurry, and is splendid for other throat troubles. Granulated Sugar Syrup... 13½ oz. Pinex 2½ oz. Put 2½ oz. of Pinex in a pint bottle and fill up with granulated sugar syrup made as follows: Take a pint of granulated sugar, add ½ pint of warm water and stir about 2 minutes. Take a teaspoonful every one, two or three hours.

This recipe will not work with any of the weaker pine preparations. Use the real Pinex itself, which is the most valuable concentrated compound of Norway White Pine Extract. All druggists have it, or can get it easily on request.

Strained honey can be used instead of the syrup, and makes a very fine honey and pine tar cough syrup.

—do not beat it—then add half a teaspoonful of vanilla extract. Pour into a pretty dish, set aside to cool and serve with cream.

CREAM OF TOMATO BISQUE.

Put into a saucepan one quart of canned tomatoes or the equivalent in fresh ones peeled and sliced and one small onion sliced. Cook twenty minutes, then rub through a sieve and return to the fire to keep hot. Meanwhile boil a quart of milk in a double boiler, thicken with two tablespoonfuls each butter and flour creamed together and stir constantly until smooth and creamy. Season the strained tomato with a teaspoonful of sugar and salt and pepper to taste. When all ready to serve add a half teaspoonful of soda to the tomatoes and then the boiling thickened milk. Stir quickly and serve at once with croutons. If liked, a little minced parsley may be added to the tomato five minutes before the milk is turned in.

AMONG OURSELVES.

A very important matter is to be presented for discussion by "In Despair." Let us give close attention:

I have been reading Among Ourselves letters with much interest and now would like to see this subject up for discussion: What is the best method to pursue in giving children high school privileges where it is impossible for them to attend unless either boarding away from home or asking "pa" to move to town (he being heart and soul in farming), or simply drop such a thought and be satisfied with only an eighth grade certificate? This to mean farmers who really could afford either method, but simply are thoughtless and seem to think they are doing all that anyone ought to expect when they are feeding and clothing their children and sending them to the district school. Also, is it best to keep unusually bright children in a district school where they are continually held back on account of the rest of the class being either slow to learn or absent much of the time, or would you advise such pupils to attend city schools expecting them to do better work and making better progress? I would like to hear from teachers and professors or others who really "know" or have had experience in such matters. Are boarding pupils equal to as much work as those who have a comfortable home? Also, has leaving the farm for such a reason worked disaster to homes and families? We hear of missionaries coming all the way from foreign countries to educate their children. Now what shall we do with ours?

In such a big circle as ours there must be many who have faced the problems which are troubling "In Despair." Let me urge that we have hearty response to her call for help. A discussion of this kind may be helpful in such a far-reaching way that it should be considered a privilege to contribute to it. Let us hear from parents who have sent their children to school, from parents who have gone to town with their children, and also from some of the young people who have gone from the farm for larger educational advantages.

Polly comes to talk about "Old Ladies:"

I would like to speak of some old ladies I know of, if I may. I have seen some of the loveliest, sweetest old ladies the sun ever shone upon. It was a pleasure to meet them. Then again I have seen just the opposite—old ladies so sour and hateful that I have gone out of my way to avoid meeting them. One of the latter called on me this morning. I was very busy, but of course had to be civil. Your physical defects are all mentioned in a very disagreeable way. If you are very tall, very thin, very short or very much one way or the other, she reminds you of it. If you have some little deformity you are sensitive about, she will not let you forget it, and she is sure to remind you that you are growing old, have gray hairs, or that she knows your husband would not remain single long if left a widower. And the worst of it is you never can convince her what she says is out of place. It was the truth, of course—there's no harm in that. Truths can be very disagreeable sometimes, and we do not care to be constantly reminded of our errors. I have left some old ladies, feeling so cast down and discouraged that the whole sky was clouded, and I have met old ladies I could talk with for hours and hours and always come away feeling happy. If I live long enough to be an old lady I want to be as a little girl said: "A nice old lady."

And the way to grow into "a nice old lady" is to be nice all the time. If we could only realize that what we are governs what we will be I think perhaps we would be more careful to cultivate loveliness by doing and saying gracious things each day and by repressing the temptation to say or do the opposite.

The next letter I give because of some words I wish to say:

Does the editor or someone in "just Among Ourselves" know of any medicine that can be given to cure drunkenness? I would feel very grateful if someone would recommend a cure and would like to hear through the columns of this paper. I have often seen medicine advertised, but did not know if it were genuine or not. Will someone please tell me through the paper?

The writer of this letter does not wish her name to be mentioned. Of course not. This means that the information she asks for would have to come to the Home Department editor and by her be passed on to the writer.

The writer probably did not look at it in this way, but as cures for drunkenness are proprietary articles placed upon the market they cannot be advertised Among Ourselves. The point I wish to make is that no request for information should be made Among Ourselves the answers to which cannot be published Among Ourselves.

"Critic" has a word for us:

We all enjoy the Home Department of this paper, also the paper itself. As a farm paper I think it is unexcelled. As my brother has chastened M. L. H., I wish to tell her my advice. Being a man, I would say read Hebrews 12:14. I think if she is a true Christian she can glean good advice from the Word of God. Also I wish the dear brother to read I Corinthians, 8:9-10:25 and Romans 12:17. I think he will take a different stand on card playing and dancing. I, too, am a Christian and elder of the church, so am a strong believer in prayer. The Lord will faithfully guide M. L. H. and all of us if we faithfully serve him as Christ did while here on earth. I, too, have been a silent reader since last August, so I thought possibly no one would take offense if I expressed my views on this all-important subject of holy matrimony and calling the brother's attention to the Lord's words on this detestable card playing and dancing. We all know the vice it leads to. There are a great many things we as a weak generation of people don't think so bad. But we must insist on our brother's account. It is the salvation of our brother we are laboring for as Christians. I don't think Christ ever won a soul to him by these vices.

We shall allow V. R. to follow "Critic:"

My opinion is this, that if a young man never does anything worse than dance he will surely go to heaven when he dies. A good invitation dance will not even hurt a child, let alone a full-grown young man. Of course the public dances may be different, however. I have never attended any and therefore could not say for sure. In fact, to be plain about it, I have always found boys who did not dance by far the worst and most ill-mannered. One reason, I always thought, was that boys will find amusement somewhere and if they do not dance they will find something else to amuse them; that is, the average boy. Of course there may be a few that stay at home and read in the evening while other boys are dancing. But they are very few around here. Then, too, a boy that attends dances, that is, respectable dances where good equipment is used, is mixed up more with the opposite sex and consequently has better manners.

The old question of evening amusements is opened up by these two friends, who viewing the question from quite different standpoints, naturally come to quite different conclusions. We shall leave the matter with the friends.

"A Lone," one who amid nature has worked out a philosophy of life for himself, has a word for M. L. H., which is capable of wide application:

May I come in? The name "Among Ourselves" sounds almost exclusive. Yet the kindly exchange of ideas I have looked forward to each week so eagerly, for so long, makes me bold to plead for room within. Here in my lonely "shanty" in the clearing where but a few short years ago the "giant pines" waved a welcome to the woodman's ax and saw, I live alone with a few choice books and papers that come like welcome greetings from far-off friends. And oftentimes a letter from some far-off home, published "Among Ourselves," makes me long to stretch out a hand in friendship or sympathy. I have read M. L. H.'s plaint and others with griefs which they alone can feel. And I long to help them, impotent though the wish may be, for I have learned here in the wilds that those alone can feel the hurt who have it. And the very circumstances that cause it may be the thing that makes relief seem hard. Still as a rule I find "the remedy lies within ourselves." That is when we have rested and can see with less interested eyes, as it were, the pain seems soothed and with the renewed strength, and happier thoughts, we are apt to find our sweetest flowers and fruits where only thorns appeared before. So if that dear girl were not held by the laws of circumstances, as well as of society and state which leaves her only one factor in the mighty whole, I would feel sure her safest, happiest, surest solution would be to ask advice of none but her own true heart. And that man would be a wretch, indeed, drunkard though he might be, who would not for her own dear sake be better for the help a loving, trusting woman gives. But the advice of the father to his son handed down through the years is as true today and applies to all, both man and woman, better I believe than it did in Shakespeare's time: "Above all things unto thine own self be true and it will follow as the night the day, thou canst not then be false to any man (one)."

Will "A Lone" pardon one who asks how shall one know the path which is being true to oneself? Hundreds have faced these lines earnestly desiring to obey the command, "To thine own self be true," but in doubt as to the thing they should do. The path of duty is always single, someone has said, but sometimes another path lies very near and the traveler knows not which is the one that leads to the desired haven.

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FIRST QUARTER.

Lesson VII.—Matthew VI., 19-34.

February 13, 1910.

WORLDLINESS AND TRUST.

This emphatic declaration of the impossibility of the double service—God and mammon—corresponds to the first digit of the decalogue, "Thou shalt have no other gods before me." An absorbing concern for the obtaining of worldly goods—a complacent repose in their possession—partakes of the nature of idolatry. It excludes God from the account, as well as man's own spiritual nature. It is the sin of sins: Covetousness, which is idolatry. But the master teacher anticipates the question, "How shall we live unless we apply ourselves undividedly to the getting of a living?" In noble and touching language Jesus reveals the fatherhood and providence of God. The forgetting of this truth leads to grasping and cruel competition in the gaining and selfish, gluttonous, thankless using of what is once acquired. This is the argument: The body is the casket of a rational and immortal spirit. The very act of creating such a spirit carries with it the support of the body in which it is enshrined. The reasoning is from the greater to the less. The analogy is from nature. Fowls and flowers live and thrive, and that, too, without the artificial devices of which man may avail himself. The benevolence which expends itself upon the least, will not be parsimonious toward the greatest. No stronger deterrent from corroding care can be found in human language. He who spoke it was touched with a feeling of our infirmities. He himself had not where to lay his head. Thus he not only commands, but he exemplifies the spirit of dependence and trust toward the Father. There is here no premium on indolence, however. In fact, labor is tacitly enjoined. Man does reap and gather into barns; he does toil and spin. By this very means the Heavenly Father feeds and clothes him. Continue this reaping, gathering, toiling, and spinning; but in the right spirit and in the right proportion. Where this becomes the sole aim and end of life, it partakes of the essence of idolatry. It is Gentilism, pure and simple.

The holy and supreme passion of every heart should be the complete setting up therein of the kingdom of God, the resultant of which is righteousness of heart and life. This is the believer's true portion. He is sincerely satisfied with it. To this, other things, convenient and necessary, are added. This on condition of reasonable prudence and industry; for no guarantee of subversion of natural law is made.

The Teacher's Lantern.

There is a current epicureanism which asserts, in a most practical way, that the ideal life does consist in the possession of an abundance of things. This is the logic of the premise, affirmed or suppressed, that man has no spiritual or immortal nature. The practical effects of such a creed are selfishness, inhumanity, luxuriousness. The true rule of life is to love and serve God supremely; to allow the setting up of his kingdom in the spiritual nature; to seek after and increasingly conform to the divinely-given rule of right living. To such an one there will be a steady diminution of corroding care concerning material prosperity, while at the same time industry and prudence may actually increase. The proportion between the material and spiritual, however, is maintained, each in its own order. Jesus' teaching is the very soul of practicability. No age ever stood in more imperative need of this teaching than our own. It is a period of fiercest competition, of depreciated values, of widespread lack of employment. In the midst of this age Jesus stands, and utters anew the most consolatory message that has ever fallen upon the human ear. The expression, "Add a cubit," is thought to refer to the life rather than the stature. How many dying folks crave to prolong their lives for a span! Yet how futile! Queen

Elizabeth, though the story may be apocryphal, cried, "Millions for an inch of time!" "O that man would learn from the flowers the beauty of growing silently, by the internal law of their nature operating through God's gifts and power, up into a full preparation for that blooming in future glory which is set before us as the goal of our glorification."—Stier.

DRESSMAKING—NO. 63.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Such a protective apron as this one is needed by every woman whose occupation or pleasure may mean soil to the gown. It is desirable for the artist as well as for the housewife and is altogether useful and protective, and it is pretty and becoming. The epanlette-like portions are extremely attractive and there are a variety of appropriate materials. Checked linen with bands of white makes the one illustrated, but gingham and percales, lawns and all similar sturdy materials are appropriate, with bands of the same or in contrast as liked. Blue chambray with bands of white is affected by some women and is really charming. The linen illustrated is durable in the extreme and also is handsome.

The apron is made with the front portion, which includes the skirt, and the back. There are patch pockets arranged over the front



[6537 Work Apron, Small 32 or 34, Medium 36 or 38, Large 40 or 42 Bust.]

and there is a belt attached to the back which keeps the fulness in place. The apron is closed with buttons and buttonholes.

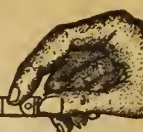
The quantity of material required for the medium size is 5 1/2 yards 24 or 27, 3 1/2 yards 36 inches wide, with 1/2 yard 27 inches wide for bands.

The pattern 6537 is cut in three sizes, small 32 or 34, medium 36 or 38, large 40 or 42 inches bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

The princess gown that is made with plaits in the skirt portion to provide flare and fulness is one of the prettiest and most graceful possible. This one includes novel and attractive sleeves and a chemisette. In the



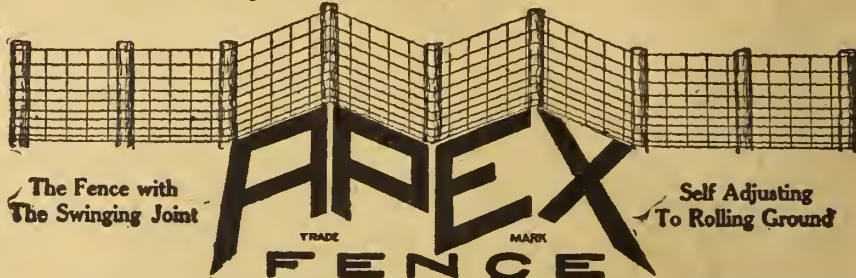
GET THIS POCKET TAPE-MEASURE FREE



Handier than a jack-knife and weighs half as much.

Beautifully nickel-plated. Best waterproof linen tape ten feet long. ASK FOR IT ON A POSTAL. That is all it will cost you. Kindly tell us on the card how many rods of fence you have on your farm.

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The Fence with The Swinging Joint

Self Adjusting To Rolling Ground

It is the only fence absolutely self-adjusting on rough and rolling ground. The patented "Swinging Joint" is the secret of it.

You can't afford to put up a woven wire fence without inspecting "APEX" fence.

One of the biggest dairy breeders in the country writes us: "I intend to replace all fences on my farm with 'APEX' fence."

Wouldn't it pay you better to put up "APEX" in the first place, when you need more fencing, and save the trouble of "replacing" it afterward?

WRITE FOR THE TAPE LINE NOW

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Janesville Barb Wire Co., 200 S. Franklin St., Janesville, Wis.



This is the patent Swinging Joint.

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There is no improvement you can make that will pay you better in satisfaction and in dollars than to surround your yard and garden with a neat and attractive

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They are made in many artistic patterns, of rust-resistant materials, and are so strong that they will require no repairs for years.

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Cyclone Farm Gates are made of the strongest material possible to secure for this purpose—special high carbon tubular steel. This makes a rigid durable gate that is light on hinges. The hinges, latches and all fittings are of malleable iron to insure against any need of repairs. By writing to-day for our catalogue you will obtain proof that it will pay you to buy Cyclone Fences and Gates.

CYCLONE FENCE COMPANY, Dept. 121 WAUKEGAN, ILLINOIS.

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hang close to the ground and have barb wire at bottom, so they are hog and chicken tight. You can raise them a little to pass over slight obstructions or away up high enough to let hogs run under or to swing over deep snow drifts.

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9th St., Cedar Falls, Iowa.

ROSEINE PENNSYLVANIA KEROSENE

gives one-third more light; increases home comforts; no odor; no smoke; no explosive gases. Ask your dealer for Roseine Penna. Kerosene. Don't ask him for his "best oil" for that may be just common, dangerous oil that gives a poor, yellow, eye-straining light. If he don't have Roseine, he will get it for you if he values your trade. If the oil he sells you for Roseine isn't the best kerosene in the world, it isn't Roseine. Always shipped in yellow barrels bearing our trade mark "Roseine." Roseine is the ideal incubator oil.

14 1/2 Cents a Rod

For 23-in. Hog Fence; 15 1/2-46 for 26-inch; 18 1/2-46 for 31-inch; 23 1/2-46 for 34-inch; 29 1/2-46 for 42-inch Farm Fence. 50-inch. Pontit Fence 53c. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.

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Built strong, built cheap. Sold to the user at Wholesale Prices. We Pay Freight. Catalogue free.

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The Brown Fence & Wire Co., DEPT. 34 Cleveland, O.

Don't Rust Farm Fence

Extra heavily galvanized. Sold direct to farmers at manufacturers' prices. 30 days' free trial. Freight prepaid. Also Foultry and Ornamental Wire and Iron Fences. Catalogue free. Write for special offer. The Ward Fence Co., Box 346 Decatur, Ind.

BOWSER SWEEP MILLS

Different from all others. 4 or 2 horses Geared 10 to 1 or 7 to 1. Grind Corn with chucks or without. And all small grains including Oats and Wheat. (Also make 8 sizes belt mills.)

R. N. F. Bowser Co., South Bend, Ind.

WANTED No. 1 married man; no family. General farm work; good house; garden; cow kept. Industrious, good worker, strictly reliable. Give age, wages wanted; all particulars first letter. Best references required. Stowe's Ranch, Granger, Ia.

illustration it is made of henrietta cloth and the under portions of the sleeves and the chemisette are of tuck net, but any fancy material is appropriate for these last and for the gown itself can be used any fashionable material adapted to so severe a style. Chiffon broadcloth and velvet are favorites of the season and would be exceedingly handsome so made.

The dress itself is made in sections that extend to the shoulders and there are extensions below the stitchings which are folded under to form plaits. The closing is made invisibly at the back. The short sleeves



[6536 Plaited Princess Gown, 34 to 42 Bust.]

as illustrated are arranged over the long ones and can be held in place by means of buttons or other trimming.

The quantity of material required for the medium size is 18 yards 21, 24 or 27, 8 3/4 yards 44 inches wide if material has figure or nap; 18 yards 21, 13 yards 24, 12 yards 27, 7 1/4 yards 44, if material has neither figure nor nap, with 1 1/4 yards 18 for chemisette and long sleeves.

The pattern 6536 is cut in sizes for a 34, 36, 38, 40 and 42 inches bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

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When writing to advertisers please mention this paper.

THE YOUNG FOLKS

The Squirrel.

Once upon a time I had a pet squirrel, and he would run and play and eat nuts, and at night he would sleep in papa's coat pocket. He would carry down the nuts into the pocket and we made him a nice bed to sleep in. In the spring he ran away into the woods. Poor little Jack!

Arthur Snook.

Reading "Uncle Tom's Cabin."

I am getting along in school fine, but we only have six months. I study spelling, grammar, arithmetic, reading and geography, and I am in the fifth grade. The name of my school is Victory, and it is a half-mile south and a mile east of town. The book we are reading is "Uncle Tom's Cabin." We just finished the book of "Try Again." I do not do much, for it is too cold. We play ball at school when it is nice and warm, and in the evening I do my work and go skating awhile and then study my lessons for the next day for school. I am ten years old, and I like to go to school. In summer I have to plow and harrow, but I do not mind it much.

My mother and father are both living yet and have just gone on a visit today. My home is near a small creek, and is not far from town, but everything is in good condition. My playmates are Carl Miller, Henry Whitner and Harry Small. Some of my friends live in different counties, but not many live where I do. We had a program and a basket supper, and made \$56 from eighteen baskets. The teacher's basket was \$6.50.

Henry Stoppel.

How "Fannie Saved" the Sheep.

Fannie is our Scotch Collie dog. When she was six months old she would go to the barn every morning and count the sheep. The way she did this was to touch every one of their noses with her nose. One morning one was gone and she went around among them and could not find it. She went to papa and whined as if to tell him. He went to look for it and it had got over in the cow stable. Another time she went around the house barking as if something were the matter. Mama opened the door and said, "Fannie, what is the matter?" She ran towards the woods. Mama heard the sheep bell ringing and followed her. The dogs were after the sheep. Fannie ran between the dogs and the sheep and saved them from being killed. Esther Brooks.

How We Ride and Drive.

Dora and Kit are our driving mares. We drive them to Blue Jacket, Okla., to school, which is six miles. They are very gentle and we can ride or drive them anywhere. My brother John rides Kit and I ride Dora, and whenever the cows get out we go and get the horses, call the dogs and go and get them. One day they got out and we took the dogs and rode the horses and brought them back. I would not sell the horses for anything. Mary Brooks.

When Willie Came Home From School.

In the morning it was rather cold, but Willie did not care for the cold. He was rather glad because he thought that the ice would be frozen before evening. Four other boys went the same way as Willie Black went. As he came to a turn in the road he found two of his schoolmates waiting for him, and the other two a little ahead. "Hello, Willie," shouted Ned Green and Bert Walker. "It is rather cold this morning." "Yes," replied Willie, "but I don't care if it only freezes the ice hard enough to skate on before evening." "Wait for us a minute," shouted Willie to the other

two boys, John and George Brown, and they hurried up to them.

When school was over, they hurried to a pond near the schoolhouse. The first on the ice was Willie. "Come on, boys; it will carry." Soon they were all on the ice laughing and sliding. All at once Willie heard a cry and looking around saw Bert Walker struggling to get out of the water. Willie hurried over to get him out, while Ned and John ran for help. When Willie got there he slipped and fell in himself, but George was standing near him when he fell in and when he came to the surface George caught hold of his arm and dragged him out of the water onto dry land. He hurried back to get Bert out, but before he could get him out John and Ned with two men, came with ropes and boards.

When Willie and Bert awoke they found themselves at Ned Green's home. Next day they were able to go home. They had to stay in bed for a week, as they had caught cold, and they made up their minds never to go on the ice before it had been frozen at least one day.

Clara Paulsen.

A Little Housekeeper.

I am a farmer's daughter and my sisters and I keep house for our father. Our mother has been dead for six years. There are seven children in our family, two boys and five girls. My father owns 160 acres of land and several head of stock. I am the oldest child in the family and I help my father care for my little brothers and sisters. My sisters and I raised 300 little chickens last summer and expect to raise more this coming summer. We had a pretty fair garden. We all go to school. I am in the seventh and eighth grades. I love to read good, interesting books and papers, or anything that is good and worth reading. Josie Suttles.

A Letter From a Bright Girl.

I am a farmer's girl, but live in town on account of having to go to school. In the country the school is only to the eighth grade and I am now in the eighth grade. My sister, her husband and little child, who is about two and a half years old live on papa's farm. My father, mother, sister, brother and I had prepared to go to the farm and spend vacation. School closed for vacation on Thursday night before Christmas. When I got home from school my father and older brother were waiting to take us out into the country. We had been preparing a Christmas program at the church and I had to go to practice Friday afternoon at three o'clock. On this account the folks thought it better to wait and go to the farm after we got through practicing. We were disappointed, but after thinking the matter over we decided it was the best thing to be done.

Friday morning when my mother called us children she said we had a new neighbor, meaning the snow, which had covered the ground. We were all much surprised, not thinking of it storming, but the worst thing of all was that it was raining and we knew very well if it kept that up we couldn't go to the farm that day. Papa said we could go if the rain turned into snow. This statement excited my sister and of course she wished right away that it would be snowing the next time she looked out of doors. Well, dinner time came after so long a time, but it seemed as though the time to start to the farm would never come. After dinner we girls got ready to go to practice. When we started it was snowing and it kept snowing until about half-past four o'clock. After we got through practicing we went home as quickly as possible.

When we got in sight of the house

Better Farming

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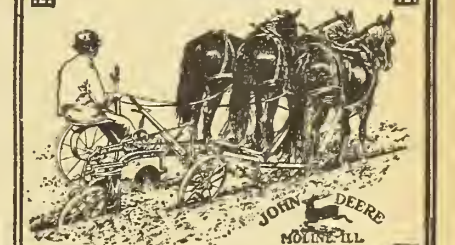
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Try it 20 days FREE

We would like to have you test a Corn Belt Mill on your farm for 20 days. If it doesn't do its work better than any mill you ever used, send it back at our expense. Learn more about this mill. Write for booklet to-day.

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RAW FURS BOUGHT

TRAPPERS' ATTENTION! RACCOON, SKUNK, MUSKRAT, MINK, OPOSSUM AND OTHER KINDS. WRITE FOR SPECIAL QUOTATIONS. ADDRESS, A. E. BURKHARDT, International Fur Merchant Cincinnati, O.

we could see that the buggy was gone. We both thought sure our brother had gone and left us, but as soon as we reached the house we found that they had just gone down town and would be back after us before very long. Papa soon came and we hurried our wraps on and were soon ready to get in the buggy. We girls got in back of the seat where papa had put hay and spread a blanket and papa covered another blanket on our knees, and then we started. It was now about half-past four. We were not long going although we had about five miles. When we got out there they were all glad we had come. It was about six o'clock when we got there. We were pretty tired and so we went to bed about as soon as we got the dishes cleared away.

When we got up Saturday morning it was as clear as could be. My big sister and myself got breakfast. After we got the morning work done up it did not seem long until dinner time. Dinner was got ready and we all enjoyed it very much, especially the good things which my sister had prepared for us. After dinner we made candy. We all enjoyed it very much.

I will now tell you the most important reason of our going to the farm. We wanted to watch our little niece when she saw the gifts Santa Claus was to leave here Christmas eve. Our little niece was so sleepy and tired we forgot to have her hang her stocking, but her mama hung it for her. When she woke up Christmas morning I got her out of her little bed. The first thing she saw when I took her in the dining room was her little doll cradle. Then she took her things out of her stocking. When she found her doll she took it to her papa and said: "Papa, Santa Claus did come." She thought lots of her presents, but she didn't like anything as well as her ball.

We have a very good place to skate not far from the house. Sunday, we were all down there for a while and then I went to the house. My brother had fixed a board to serve as a sled and he was pulling my other brother and sister when my brother fell off and pulled my sister off some way and cut her fingers. They were pretty sore, but are better now. The rest of the week we would first play a game on our new game board which we got for Christmas, and then we would skate.

I will now tell of another accident which occurred on the following Friday. About every day my brothers went to chop wood in papa's timber. Friday, my mother had been looking out of the door watching my brothers drive in with a load of wood. One of my brothers got off the wagon and started toward the house. I kept watching him, for I thought I could see him limp. As soon as he got closer I could set blood running out of a cut in his overshoe. We knew then that he had cut his foot. It was cut very bad and was painful to him, and when he put his foot down it bled. We started for town about two o'clock Saturday and got there about four. I had a pretty good time during vacation, but I am certain I would have had a better time if my brother and sister had not had accidents.

Grace Latham.

BOLLMAN'S HAMPSHIRE SALE.

The Hampshire sale of Mr. R. L. Bollman, held in Coal Valley, Ill., on January 28th, was a great success. Mr. A. L. Goodenough secured the top of the sale in Merry Widow at \$145. Mr. Geo. Lippert secured a valuable brood sow in Bessie A. at \$107.50. Mr. Fred Willhouse was the largest individual buyer and he secured some good ones. Hampshire breeders should feel good after this sale, as the outlook for the breed is very promising. Colonels Reppert and Buck did the hard work to get the value of the offering. Below we give list of buyers and prices paid:

Lot.	Price.
1. A. L. Goodenough, Morrison, Ill.	\$145.00
2. Geo. Lippert, Magnolia, Ill.	107.50
3. Mike Sharp, Coal Valley, Ill.	100.00
4. C. P. Paulson, Nora, Neb.	58.00
5. Fred Willhouse, Coal Valley, Ill.	58.00
6. Same	55.00
7. H. D. Dekalb, Dekalb, Ill.	70.00
8. Fred Willhouse	50.00
9. T. H. Morgan, Coal Valley, Ill.	42.00
10. H. D. Dekalb	54.00
11. Willie Essig, Tipon, Ind.	75.00
12. Howard Niswonger, Kewass, Iowa	41.00
13. Brochiar, Blithedale, Mo.	50.00
14. A. Thoms	51.00
15. R. L. Murrayville, Ill.	64.00

17. Milton Crabtree, Orion, Ill.	70.00
18. Fred Willhouse	55.00
19. John Mayhew, Aledo, Ill.	52.00
20. Fred Willhouse	50.00
21. H. R. Owens, Homestead, Iowa.	61.00
22. H. T. Adams, Mt. Sterling, Ill.	55.00
23. D. W. Triplett, Crisman, Ill.	58.00
24. M. C. Harmon, Sabula, Iowa.	49.00
25. Howard Niswonger	71.00
26. C. P. Paulsen	52.00
27. Flowerdale Stock Farm, Dallas, Texas	60.00
28. Rymell Bros., Homer, Neb.	32.00
29. A. W. Elliott, Reynolds, Iowa.	46.00
30. Geo. R. McCandless, Orion, Ill.	33.00
31. J. R. Metzler, Orion, Ill.	37.00
32. Bowman & Blair, Mt. Carroll, Ill.	50.00
33. E. C. Stone, Armstrong, Ill.	39.00
34. Fred Kuhn, McNabb, Ill.	46.00
35. D. W. Triplett	38.00
36. Jno. Mayhew	33.00
37. Jno. Swenk, Ft. Byron, Ill.	34.00
38. Clayton Messenger, Kewick, Ia.	36.00
39. Jno. Mayhew	36.00
40. Robt. C. Runkle, Lincoln, Ill.	35.00
41. G. B. Van Norman, Pingree Grove, Ill.	36.00
42. F. M. Buckwald, Durant, Iowa.	32.00
43. Geo. R. McCandless	29.00
44. Clayton Messenger	37.00
45. Flowerdale Stock Farm	50.00
46. F. M. Buckwald	39.00
47. Extra. Will F. Smith	58.00
48. Extra. Jno. Swenk	31.00
49. Extra. E. G. Jamison, Moline, Ill.	38.00
50. Extra. Willie Essig	34.00
51. Extra. Wood & Westcott, Sheffield, Ill.	32.00
52. Extra. Henry Menits	32.00
53. Extra. Howard Niswonger	30.00
54. Extra. A. L. Goodenough	43.00
55. Extra. L. C. Miller & Son, Canton, Ill.	32.00
56. Extra. Same	34.00
57. Extra. H. R. Owens	33.00
58. Extra. T. W. Hurts, Shelbyville, Mo.	56.00
59. Extra. Clayton Messenger	29.00

SUMMARY.
58 head\$2,953.50; average....\$50.92

STONER & SON'S SALE.

The Duroc Jersey bred sow sale held at Henry, Ill., on January 24th, by Messrs. I. W. Stoner & Son, was not what it should have been when you consider the quality and breeding of the offering. The produce of Colonel Stoner was exceptionally good. Colonels Reppert and Kraschel did the selling. Below we give list of buyers and prices paid:

Lot.	Price.
1. Zimmerman & Kays, McNabb, Ill.	\$39.00
2. I. Brookline, Henry, Ill.	32.00
3. W. W. Bortan, Chillicothe, Ill.	34.00
4. W. R. Childs, Princeton, Ill.	41.00
5. H. B. Wilson, Bradford, Ill.	38.00
6. L. W. Cross, Mason City, Ill.	42.00
7. Wm. Schlosser, Henry, Ill.	45.00
8. W. W. Bortan	30.00
9. Stephen Apple, Henry, Ill.	25.00
10. Stansell & Matern, Magnolia, Ill.	26.00
11. H. B. Wilson	30.00
12. Zimmerman & Kays	31.00
13. C. L. Weerman, Magnolia, Ill.	26.00
14. W. J. Kendall, Edelstine, Ill.	65.00
15. Stansell & Matern	35.00
16. Val Hofer, Henry, Ill.	28.00
17. C. C. Sawyer, Henry, Ill.	39.00
18. L. W. Cross	33.00
19. Stansell & Matern	25.00
20. J. F. Valentine, Metamora, Ill.	31.00
21. C. L. Weerman	25.00
22. Same	30.00
23. J. F. Valentine	46.00
24. Stansell & Matern	25.00
25. Zimmerman & Kays	27.00
26. Geo. Helper, Henry, Ill.	29.00
27. H. B. Wilson	30.00
28. Same	27.00
29. E. C. Stemen & Son, Middlepoint, Ohio	48.00
30. Zimmerman & Kays	28.00
31. Dudley Damp, Freeport, Ill.	34.00
32. Will Hummerston, Worthington, Wis.	67.00
33. Ben Ransom, Henry, Ill.	36.00
34. Stansell & Matern	29.00
35. W. R. Childs	43.00
36. B. Reissner, Henry, Ill.	51.00
37. A. W. Brodgett, Woodbury, Ohio.	45.00
38. W. Wanihan, McNabb, Ill.	42.00
39. Stansell & Matern	25.00
40. Geo. Helper	34.00
41. D. D. Brown, Henry, Ill.	40.00
42. W. R. Childs	29.50
43. Stansell & Matern	25.00
44. Ben Ransom	40.00

SUMMARY.
47 head\$1,623; average....\$34.53

WIGSTONE'S POLAND CHINA SALE.

Messrs. Wigstone Bros., of Stanton, Iowa, sold forty head of Poland China sows on the 28th of January at an average of a little over \$30 each. The consignment was an excellent one and worthy of better prices. The figures ranged from a top of \$44 downward. Among the buyers were Messrs. M. V. Selly, Villisca, Iowa; W. M. Schrader, Greenfield, Iowa; H. S. Duncan, Fairfield, Iowa; J. P. Larimore, Kinderhook, Ill.; Gus Peterson, Stanton, Iowa; Chas. Dahlquist, Villisca, Iowa; W. D. Fulton, Villisca, Iowa; Claus Anderson, Stanton, Iowa; Horace Ewing, Red Oak, Iowa; Ed Gibson, Stanton, Iowa; Frank Peterson, Stanton, Iowa; Chas. Requist, Stanton, Iowa; Oscar Munson, Stanton, Iowa; J. P. Johnson, Stanton, Iowa; Otto Honnett, Stanton, Iowa.

THE ONLY WAY TO BUY A FARM.

Buying land for a home without knowing all about it is blind and foolish speculation. Settlers or homeseekers should go down and investigate conditions for themselves before buying. The Western Louisiana Settlement, at Pickering, now developing, situated along the Kansas City Southern Railway, has issued an illustrated booklet, free on application by any one interested in that coming country, having plenty of rainfall, with healthful and pleasant climate, where good farming and the best fruit and truck land in this country can be had for \$10 an acre, on easy terms. Address J. D. LeRie, General Land Agent, 539 Keith & Perry Building, Kansas City, Mo.

Ask your neighbor to subscribe for The Homestead.

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The "Corn Belt" All-Rubber Arctic



Bears the famous Gold Cross Brand, a guarantee of quality, reliability and independence from any trust.

Made entirely of Fine Rubber—no cloth used for the uppers. A perfect snow-excluder. Keeps the feet warm and dry in any weather and absolutely waterproof and dampproof from top to bottom.

Good rubbers can't be made of poor material, but lots of good material is spoiled by poor construction. "Corn Belt" All-Rubber Arctic was not built on the spur of the moment—they represent years of careful study as to the needs of the wearer. Reinforced where most needed. See the famous Samson Extension Heel, and the "Armor-plated" toe cap.

The fact that it is absolutely waterproof and that mud and barnyard filth can be washed off makes it particularly appropriate for use about the farm.

ASK FOR THE "CORN BELT" ALL-RUBBER ARCTIC LOOK FOR THE GOLD CROSS

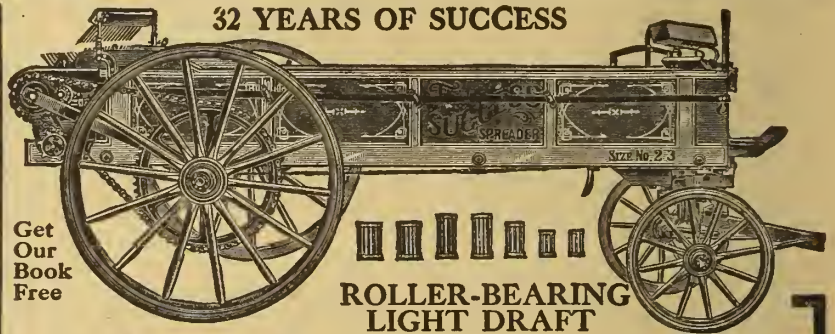
When you want rubber boots or shoes of any kind ask for the Gold Cross line. You will be sure of good value and satisfactory service.

If you cannot buy Gold Cross Arctic of your dealer, send us his name. We will see that you are supplied.

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Rubber Shoe Co.
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32 YEARS OF SUCCESS



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ROLLER-BEARING
LIGHT DRAFT

SUCCESS SPREADER

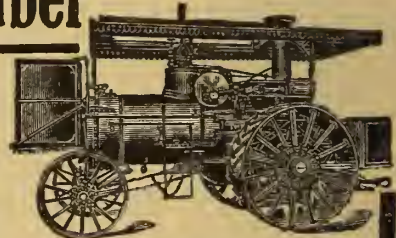
The only spreader with a 32-year record of good work. Simplicity, Durability and Light Draft always foremost. Direct Chain Drive. No Cog Gears. The choice of men who investigate thoroughly. Wood or metal wheels. A generation of experience back of every Success. The leader from the first. Exclusive features all patented. Catalog of facts Free. Write us promptly.

Kemp & Burpee Mfg. Co. SYRACUSE N.Y.

Powerful New Huber

This traction engine gets more power out of the fuel it burns

than any other engine made, because of our exclusive new Return Flue and Super Heater. In other boilers the heat is carried straight through the flue to the combustion chamber and out the stack—going through the boiler but once. In the New Huber the heat is carried through a large, water-jacketed flue to the combustion chamber in the front. But we don't let it escape there, as in ordinary boilers—in the New Huber these intensely hot burning gases are carried back by our Return-Flues through the boiler again. By this method the maximum of heat generated is used in the boiler in the production of steam. Then our Super Heater draws the steam from the top of the dome, carries it through the hottest part of the fire and delivers it dry to the



cylinder—with its expansive force at its greatest. These two features alone make the New Huber Traction Engine the one you should investigate—the one you cannot afford to pass by if you are interested in traction engines. Let us send you the proof that the New Huber is the safest, most economical, most powerful, most durable on the market. Write to-day for our free book.

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FARMERS, IT WILL PAY YOU

to use our FARMER'S FORGE OUTFIT on your farm in doing blacksmithing and repairing. We have high endorsements for the thousands of Farmer's Forges sold direct to farmers within the past twelve years in every state and Canada. Our Forges have hearths 24x36 inches, 11 1/4 inch blowers, run easy, and have all the first class qualities of high-priced forges.

WE POSITIVELY GUARANTEE our Farmer's Forge to be as large, as durable, do as much work and equal in every way any \$10.00 forge on the market, and as represented or money refunded.

SPECIAL WINTER OFFER until March 31, 1910, we offer 1 Farmer's Forge complete \$3.60 or one Farmer's Forge, one anvil and vice combined, and one pair of tongs, all for \$5.40. Ten carloads on hand. Orders shipped promptly. This offer may not appear again. Write to-day. Send stamp for catalogue No. 23 and testimonials.

G. A. S. FORGE WORKS, Saranac, Mich.

Don't buy till you see the
Murray "Style Book of
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Then you will know which is best—and costs least. Murray invites comparison of all catalogs. We are the oldest big designers in the country. We have the best equipment, use only the finest materials, employ only the most careful workmen, produce large quantities, and sell direct to the consumer. Consequently we can undersell others quality for quality.

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Guaranteed
2 years

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago Union Stock Yards, Feb. 7.—The present meat boycott is pernicious, both in theory and in effect, in that it imposes a penalty, not upon the packers as the followers of this latest fad imagine, but upon the farmer and feeder, who is in no case receiving more than a legitimate profit upon his investment of money, time and labor, and in many instances is receiving far less. Moreover, it is playing with a two-edged weapon. That there are well-grounded reasons for the present high price of meats cannot be gainsaid. If the people who are fostering this boycott movement would stop to figure out what it costs to produce a fat steer, hog or sheep they would be compelled to admit that the high range of prices is brought about by actual existing economic conditions.

A few years ago when corn could be bought at 10c to 15c per bushel, hay at \$2.50 to \$5.00 per ton and feeding cattle at 3 1/4c to 4c a pound, it was an entirely different proposition and the city dwellers as a result had cheap meat. Now good feeders are costing 5c to 5 1/2c per pound, corn anywhere from 50c to 65c per bushel and in some cases more, and hay \$15 to \$25 per ton. As a rule it takes six months to produce a fat steer and during that time he will consume eighty bushels of corn and hay in proportion. In addition to the original cost of the steer when put on feed, a man must figure on putting in about \$50 to \$55 worth of feed before the animal is in good beef condition, to say nothing of the interest on the investment, the labor and the risk.

It goes without saying that this country will never again see low-priced corn. A few years ago about the only outlets for the corn crop were feeding to stock, selling to distillers and a comparatively small amount consumed in the form of cornmeal. Now, however, the outlets are multiplied. In addition to the former uses, vast quantities are consumed by manufacturers of the various cereal foods, and as a result of the propaganda which has been carried forward abroad for a number of years past with a view to educating Europeans to the value of corn products as human diet, the export outlet has been greatly enlarged.

Under the above conditions the meat boycott is not only unwarranted, but futile. One might as well try to sweep back the waters of the Atlantic with a broom as to change the workings of the law of supply and demand. At the outset of this article we stated that the use of the boycott in this connection is like playing with a two-edged sword. Instead of permanently lowering meat prices, it is far more likely to place them upon a higher level, because it presents a menace which, if long continued, will naturally deter many farmers from putting cattle and other stock on feed, thereby reducing the supply and forcing meat prices still higher. What is needed now is a restoration of confidence throughout live-stock circles, which would result in increasing the supply, thereby placing prices of the dressed products upon a basis more satisfactory to the ultimate consumer.

Certainly there is nothing that will throttle our greatest industry, the production of live stock, quicker than to boycott our meats. The feeder who puts his money, time and labor into fattening a bunch of stock at the present high price of feed, who faces the discomforts and hardships of rough weather during the feeding period, and the hazards of the market when the stock is ready to turn off, should be recognized as a public benefactor rather than otherwise.

SHARP ADVANCE IN CATTLE PRICES.

During the first half of the week prices for beef steers were boosted 50c to 60c over the close of the previous week under considerably lighter supplies than expected and good general demand. However, on Thursday rates lost 15c to 25c and the Friday trade was only steady. Top beefs for the week made \$7.60, with bulk of sales at \$5.35 to \$6.75. There was a good demand for cows and heifers and selling was largely at \$3.60 to \$5.15 for the above grades and \$2.60 to \$3.25 for canners and cutters. Bulk of bulls brought \$4.00 to \$4.85. Stockers and feeders sold 25c to 40c higher than previous week's close, with bulk of stockers at \$3.75 to \$4.60 and most feeders \$4.50 to \$5.15.

LIGHT RUN OF HOGS.

During the first half of last week prices for hogs were advanced 25c to 35c over the close of the previous week. However, there was a net loss of 15c to 20c on Thursday and Friday. Top for the week was \$8.80, while bulk of trading was at \$8.25 to \$8.70. The limit late in the week, however, was \$8.60 and \$8.35 to \$8.50 gathered in most of the offerings.

BOOM IN SHEEP AND LAMBS.

Market for sheep and lambs last week advanced 50c to 75c over the close of the previous week. The supply was moderate and general demand strong. Top lambs for the week sold at \$8.90 and bulk of sales were at \$7.75 to \$8.65. Most of the yearlings went at \$7.25 to \$8.00. Top sheep at \$6.75, highest since May, 1909, this price being obtained by Clay, Robinson & Co. for western wethers. Bulk of sheep went at \$5.25 to \$6.50.

O'LEARY'S HEREFORD SALE.

Mr. D. S. O'Leary, of Iowa City, Iowa, made a dispersion sale of Hereford cattle at West Liberty, Iowa, January 31st. The sale pavilion was packed to its full capacity. While the cattle carried excellent lines of breeding, their condition of flesh (they having been taken almost directly from the pasture) was not such as to place them before the buyers in their most attractive form. As a consequence prices ruled low, the top being \$162.50. Below we give a list of those selling at \$100 or over:

FEMALES.

Amy, of Indeside, eleven years, sire Mark Hanna, and b. c., Kerr Bros., Muscatine, Iowa \$105.00
Vanity Lass, ten years, sire Kansas Lad Jr., and b. c., Guy Secrist, Downey, Iowa 142.50
Countess Anne, eight years, sire Imp.



Clay, Robinson & Company's LIVE STOCK REPORT

Published Weekly by CLAY, ROBINSON & CO.

THE LEADING LIVE STOCK COMMISSION FIRM OF THE WORLD

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We publish from our Chicago office (but covering all markets) a paper which you ought to read regularly. It will add to your bank account to do so.

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The "Live Stock Report" is a 12-page weekly illustrated paper devoted to the markets, live stock, and agriculture generally. It is pithy, pointed and practical. You pay 50 cents to cover actual postage for a year and we will do the rest. If after receiving three issues of the Report you think it is not worth 50 cents per year to you, notify our Chicago office and your money will be refunded without question.



WE HAVE RECEIVED THOUSANDS OF UNSOLICITED LETTERS LIKE THESE:

O. E. HINTZ, Bunker Hill, Ill.: "Enclosed please find 50c for one year's subscription to the Live Stock Report. Your paper is getting more valuable every year and I think the live stock raiser or farmer who does not take it is behind the times."

J. C. COBB, President of the Bank of Odessa, Mo.: "I hand you \$1 for two years' subscription. I would feel lost without the REPORT."

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Approximately 50,000 of the most successful live stock feeders, farmers and shippers in the U. S. regularly read the LIVE STOCK REPORT. It helps them and it will help you.

A NICE LITTLE PRESENT—EXTRA

As a special incentive to forward your subscription at once, we will send you free and postpaid this very convenient vest pocket slate memorandum book and pencil (see cut at left), handy for the farmer, housewife, school boy or girl, provided your subscription is mailed within fifteen days from the time you receive the paper containing this advertisement. Act immediately. There is no reason to hesitate, as our "money back" offer eliminates all risk.

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Enclosed find 50 cents, for which please send me The Live Stock Report one year; also the Slate Memo. Book and American Beauty Souvenir.

NAME.....

RURAL ROUTE NO..... P. O.....

STATE.....

Vanguard, Morgan Bros., Olds, Iowa 100.00
Peach of Oak Grove, eight years, sire Thickflesh, W. Andrews & Sons, Morse, Iowa 100.00
Daisy 8th, four years, sire Perfection Yet, and c. c., A. J. Huxley, Bunker Hill, Ind. 100.00
Delia 2d, six years, sire Perfection Yet, W. E. Hastings, Iowa City, Iowa 147.50
Vanity Lassie, three years, sire Perfection Yet, and b. c., Guy Secrist, 162.50

MALES.

Arnold, three years, sire Perfection Yet, F. E. Hembricht, Leroy, Minn. 110.00
Hawkeye Ben, two years, sire Improver's Hesiod, Thos. Keough, Taopi, Minn. 105.00
Improver Yet, two years, sire Improver's Hesiod, Mat Foley, West Liberty, Iowa 102.50
Victor, two years, sire Improver's Hesiod, H. G. Peters, Marengo, Ia. 112.50

SUMMARY.

37 females....\$2,930.00; average....\$79.18
13 bulls 872.50; average.... 67.11
50 head 3,802.50; average.... 76.05

Among other buyers were Messrs. Gray Bros., Muscatine, Iowa; C. A. Ohl, West Branch, Iowa; Kessler Bros., Solon, Iowa; B. B. Hunter, Iowa City, Iowa; John Bothl, Iowa City, Iowa; Henry Tucker, West Branch, Iowa; Bert Conkline, Downey, Iowa; J. H. Wilson, Garrison, Iowa; Wm. D. Wilson, Garrison, Iowa; A. E. Schooley, West Liberty,

Iowa; A. Rowner, Iowa City, Iowa; E. T. Miles, Lone Tree, Iowa; M. Thompson, Muscatine, Iowa.

THE CEDAR RAPIDS COMBINATION
DUROC SALE.

A representative crowd of farmers and breeders were present at Cedar Rapids, Iowa, on Friday, January 28th, at which time select consignments of Durocs were sold from the herds of Messrs. Edwin Hummer, Iowa City, Iowa; C. R. Mills, Central City, Iowa, and Patten & Morris, of Springfield, Iowa. There were no sensational prices paid, and buyers secured good values for their money. Mr. C. E. Kimm, of Blairtown, Iowa, topped the sale, paying \$53 for an exceedingly good gilt sired by Tippy's Colonel and out of an Orion Chief dam and bred to I Am Crimson Wonder. She was considered a bargain at the price. Col. H. L. Igleheart opened the sale with a strong plea for the Duroc and was ably assisted in the ring by Colonels Leasre and Kraschel. List of animals selling for \$25 and over is given below:

Lot.	Price.
1. John Krebs, Riverside, Iowa.....	\$25.00
2. C. O. Kimball, Marion, Iowa.....	35.00
3. Dan Evans, Coggon, Iowa.....	34.00
4. J. G. Crawford, Rowley, Iowa.....	27.00
5. G. C. Wray, North Liberty, Iowa.....	28.00
6. G. W. Haddon, Tama, Iowa.....	38.00
7. C. L. Evans, Williamsburg, Iowa.....	37.00
8. Same	34.00

9. J. C. McNaul, Randalia, Iowa	26.00
10. M. Barker, Coggon, Iowa.....	33.00
11. G. W. Haddon	32.00
12. C. O. Kimball, Marion, Iowa.....	30.00
13. J. M. Morgan, Williamsburg, Iowa	26.00
14. Bert Chase, Rowley, Iowa.....	36.00
15. Fred Yule, Springfield, Iowa.....	40.00
16. E. J. Murphey, Iowa City, Iowa.....	32.00
17. I. J. Wilson, West Branch, Iowa.....	50.00
18. Geo. Haddon	26.00
19. E. T. Davis, Iowa City, Iowa.....	34.00
20. Sam Williamson, Iowa City, Iowa	25.00
21. P. A. Heffersen, Coggon, Iowa.....	33.00
22. E. T. Davis	35.00
23. W. M. Morgan, Williamsburg, Ia.....	25.50
24. G. W. Haddon, Tama, Iowa.....	31.00
25. C. E. Kimm, Blairtown, Iowa.....	53.00
26. J. J. O'Brien, Coggon, Iowa.....	28.00
27. J. C. McArthur, Palo, Iowa.....	34.50
28. Emil Wendeling, Mauchester, Iowa	33.00
29. E. T. Davis	38.00
30. Bert Chase	42.00
31. C. R. Hunter, Iowa City, Iowa.....	42.00
32. J. M. Hartsock, Iowa City, Iowa.....	37.00
33. J. H. Mori, Randalia, Iowa.....	34.00
34. H. W. Lineweaver, South English, Iowa	50.00
35. E. T. Davis	34.00
36. G. W. Crawford, Rowley, Iowa.....	41.00
37. E. T. Davis	34.00
38. P. A. Heffersen	33.00
39. J. R. Lounbra, Cedar Rapids, Iowa.....	37.00
40. Geo. Herger, Vinton, Iowa.....	36.00
41. J. H. Mori	35.00
42. Hastie & Son, Kalona, Iowa.....	32.00
43. John Krebs, Riverside, Iowa.....	33.00
44. J. C. McNaul.....	26.00

IOWA FARMERS GRAIN DEALERS' CONVENTION.

The Farmers Grain Dealers' Association of Iowa held its sixth annual convention in Des Moines last week. Several hundred delegates were present, and the meetings aroused interest both in the ranks of the members and among the city folks whose eyes were opened to the problems and needs of the farm. The old officers of the association were re-elected as follows: President, J. H. Brown, of Rockwell; first vice-president, B. Hathaway, of Kingsley; second vice-president, J. W. Hagans; secretary, C. G. Messerole, of Gowrie; treasurer, D. D. Payne. Directors: Jno Ruthven, of Ruthven; H. C. Stoughton, of Dayton; Hans Moiller, of Sioux Center; W. S. Foley, of Melvin; J. E. Mereness, of Glidden; Thomas McMannus, of Dougherty, and William McCandless, of Sloan.

Premiums on short-rate insurance on the elevators owned by the members of the association will be raised. It was decided to keep the five-year policies at the same price, but to increase the cost of the short-rate policies. It was also decided to raise the surplus of the insurance department of the association from \$3,500 to \$10,000 or \$15,000 as soon as the business will warrant the increase. The association was addressed by Kate Barnard, state commissioner of charities and corrections of Oklahoma, who advocated the merging of the interests of the association with those of the Iowa State Federation of Labor for the purpose of electing representatives in the legislature and national congress to further the interests of the laboring men and the farmers of Iowa.

The following resolutions were adopted:

Resolved, That this convention is unalterably opposed to the inefficient or dishonest methods which have allowed the great natural resources of this nation to be secured by great corporations or wealthy individuals, and we demand that the national administration carry out in letter and in spirit the conservation policies of Theodore Roosevelt; and be it further

Resolved, That we denounce as an injustice to the state of Iowa the present railway traffic arrangements in force in this country which by means of proportional rates and differentials give to one section an advantage over other sections of the country, and we demand their readjustment by the interstate commerce commission if possible by legislative enactment if necessary, to the end that

all producers may enjoy equal privileges on the transportation lines of this country; and be it further

Resolved, That we most heartily condemn the action of the state board of railway commissioners in damaging the interests of the farmers of the state in the recent live stock cases before the interstate commerce commission; that the failure of said commission to comply with the law passed in 1907 for the protection of Iowa interests relative to interstate commerce and the methods followed by said commissions, their vacillating course and their inactivity make it imperative that the said board should be completely reorgan-

of the farm, thus enabling us to make our farm homes attractive with all the comforts necessary to home life, that they may excite the admiration of the world, and be it further

Resolved, That we are in favor of uniform and scientific methods in the grading of grain at market centers and to that end we favor the enactment of a law providing for the inspection of grain by a bureau of the agricultural department as outlined in the federal inspection bill introduced by Senator McCumber, of North Dakota; and be it further

Resolved, That we condemn the indiscriminate confiscation of fuel in times of need by the railway lines of this state, and demand



Limestone Artist was bred and is owned at Limestone Valley Farm, Smithton, Mo., sired by Artist Montrose 51, the sweepstakes stallion at the World's Fair in 1893, held at Chicago. He has always stood at the head of Messrs. Monsees & Sons' Limestone Valley Farm stud of high-class registered saddle horses. He and the entire stud sell on Tuesday, March 1st, the first day of the great two days' sale of jacks, jennets and saddle horses. See advertisement on page 57.

ized and now is an opportune time for the state of Iowa to perform this task, and be it further

Resolved, That while the farmer elevator companies of Iowa are proud of our past record, we are looking confidently to the future with its bright prospects and that we shall not be satisfied until we shall have deprived the gamblers on the Chicago Board of Trade and all other similar institutions as well as the bucket shops of the country, of their power to set the price on our farm products and shall have risen to the true dignity of our inheritance and be able to claim a just and honest price for the products

that when confiscation is necessary immediate notice shall be given to the consignor and consignee.

COLLEGE TO TEST SEED CORN FREE FOR FARMERS.

The loss to Iowa farmers from planting poor seed corn, will be greater the coming season than in many years, unless active measures are taken to prevent it. The poor condition of

seed corn is due largely to the heavy rains in the fall which filled the ears with water, and then the early hard freeze which followed. Tests made at the state corn show held at Des Moines and at the college corn show held at Ames a few weeks ago, show a startling condition. Samples which were the very best in appearance, and which often came from our best seed corn men, were entirely dead; and very many were weak and unreliable for seed purposes.

In order to help Iowa farmers to secure good seed corn, the agricultural college is offering to test free of charge, all samples of corn sent them, thereby making it possible for every farmer to know definitely whether or not his corn is safe to plant. Care should be taken in the selection of this sample for test, in order that it may represent accurately the true condition of the seed supply.

Make up the sample as follows: Select average ears at random from the entire lot of seed, or at least insofar as this is practicable. From each of the ears so selected, remove with a knife two kernels, one from each side of the ear. Place all of these kernels in a strong envelope or small sack, and mail to the Farm Crops Department, Ames, Iowa, for a germination test. Send with this corn a statement of the amount of seed you have, when it was gathered and how it was stored.

It is quite probable much of the corn from the 1908 crop will be better for seed than that grown in 1909. Those who have any old corn should send samples of this also, picking out the sample as already indicated, and accompanying it with a statement of the amount, condition, etc.

As there will be a large amount of this work to be done, the samples should be sent as soon as possible to the Farm Crops Department, Ames, Iowa. The department will mail a report of each test at the earliest date possible.

This winter is a rather hard one in many respects, but it is giving us some of the finest sleighing we have had for years. If the last half of the winter does as well in this respect as the first half it will seem rather nice to get back on wheels again.

Friends—Tell Me Your Power Needs

SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horsepower from a real engine factory. Save dealer, jobber and catalogue-house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. Come to Waterloo and see it. I sell them direct to you for less money than some factories can make them at actual shop cost—I make so many. All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

Anybody can afford and might just as well have a high-grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for in carload lots for spot cash. An engine that is made so good in the factory that I will send it out anywhere in the U. S. without an expert to any inexperienced user, on 30 days' free trial, to test against any engine made of similar horsepower that sells for twice as much, and let him be the judge.

INFORMATION YOU WANT TO KNOW

Here's how the other fellow answers your questions. I have hundreds of original letters like these—A lot more also in my Engine Book. Get it.

How About Cold Weather?

My engine came O. K., goes O. K., I like it O. K. and it is O. K. The engine I had last winter I had a dread of starting it in the morning, but this one is a pleasure; for, instead of a barrel of water, 2 pails does the job. I advise anyone wishing an engine to try the Galloway, as it costs nothing to try, according to their terms. W. P. Jennings, Chippewa Falls, Wis.

Is It Powerful and Economical?

When words cannot express a man's thoughts he

is up against it. I think you have the best engine on the market for the money. It is easy to start; it is simple; it is powerful, and it is a smooth-runner. I or no other man knows the worth of an engine till he has used one. I would not think of being without one at any price, and, if I was buying a dozen, they would be Galloways. On the coldest morning, all I have to do is to turn the gasoline on, throw the switch in and turn half over—and are gone. My brother used to sell fair engines and he was up to my place. He said my 5-H.P. Galloway beat anything he ever saw.

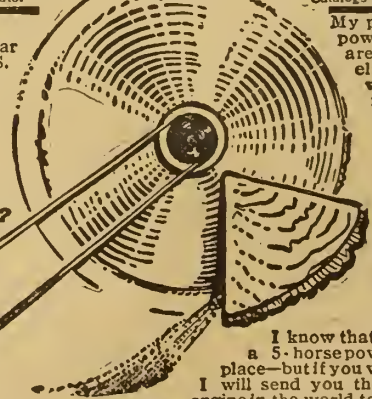
Anybody doubting this testimony, I would be glad to hear from them. E. J. Oliphant, Dodge City, Kans., R. No. 1.

Is It Simple and Easy to Start and Run?

I find the 5-H.P. engine that I purchased from you to be all that you claimed it to be. Without previous experience, I have no trouble in operating it, while several of my neighbors, with other makes of engines much higher priced, have to call in experts frequently to put them in order. I certainly would not trade it for any engine I ever saw run. E. Loomis, Gibbon, Neb.

Cut out this Coupon and mail to me now!
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Wm. Galloway Co., of America
105 Galloway St., Waterloo, Ia.
Here is my name and address—send me FREE your Big New 1910 Galloway Gasoline Engine and Power Book—also Low Prices—30-day Free Trial offer and Special Proposition direct from your factory to me.

Name.....
Town..... State.....
IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. I also make the famous Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader. Also the Galloway Cream Separator. All sold on same direct plan as my Gasoline Engines. Interested, ask for my Spreader or Catalogs—FREE.



My prices for any horsepower engine you want are 'way below anybody else's—and you get the very highest quality in every Galloway machine.
2-Horsepower Galloway Gasoline Engine \$59.50

I know that it pays best to have a 5-horsepower engine on your place—but if you want a 2-horsepower, I will send you the best 2-horsepower engine in the world today, and you are the judge on my 30 days' free trial.

GASOLINE ENGINES Direct to You on 30 Days' Free Trial

How Galloway Engines Save and Make You Money—Their Uses

1. On the Farm—Power for so many kinds of work that they practically save a big share of your hardest labor—and solve the "hired help" problem most of the year.
2. Cream Separator—Run it twice a day, or 730 times a year. Think that over for the women's sake and your own.
3. Churning—Saves all the hard work.
4. Wash Machine—Every week—it saves the woman's work.
5. Grindstone—Saves one man's time turning.
6. Shelling, Shredding and Feed Cutting, besides running the Fanning Mill, etc., etc.
7. The Elevator and Silo—Galloway furnishes the power.
8. Sawing Wood—See Galloway's outfit and description at the right, here.

9. Pumping—Power instead of "back work" or the windmill—no matter where your water comes from, you will thank Galloway for this suggestion.

10. Spraying Machines—Cheapest, handiest way to run.

11. Many Other Ways explained on pages 10 and 11 and all through my Big Free Gasoline Engine Book—Free to you if you send your name to Galloway. Do that right away and see about them—with hundreds of illustrations from farms and factories. Write today.

12. Grinding—Are you paying toll to some other man? Why not buy a Galloway and grind all your own feed? You'll be astonished to see how much you have been losing. Write Galloway—That's the best use you can make of your time right now, while it's on your mind.

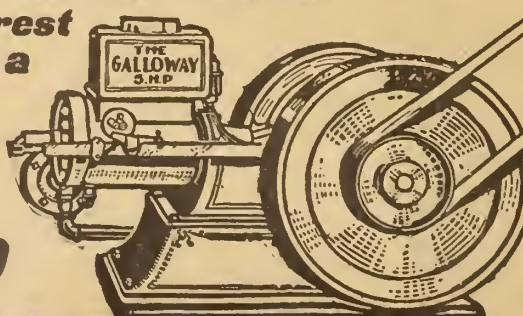
Get Galloway's Biggest and Best FREE GASOLINE ENGINE BOOK. Write today for my beautiful, new 50-page Engine Book in four colors; nothing like it ever printed before; full of valuable information, showing how I made them and how you can make more money with a gasoline engine on the farm. Write me—Wm. Galloway, Pres.

THE WILLIAM GALLOWAY COMPANY OF AMERICA
Authorized Capital, \$3,500,000.00. 105 Galloway Station, Waterloo, Iowa

Galloway

Keep the \$100 That I Save You at Home In Your Own Pocket—That's as Near Home as You Can Get.

Sell your poorest horse and buy a
5-H.P. —Only \$119.50



LINCOLN'S PLEA FOR SMALL FARMS.

(Continued from page 8.)

the thousand things of which these are specimens—each a world of study within itself.

"In all this, book learning is available. A capacity and taste for reading gives access to whatever has already been discovered by others. It is the key, or one of the keys, to the already solved problems. And not only so; it gives a relish and facility for successfully pursuing the unsolved ones. The rudiments of science are available, and highly available. Some knowledge of botany assists in dealing with the vegetable world—with all growing crops. Chemistry assists in the analysis of soils, selection and application of manures, and in numerous other ways. The mechanical branches of natural philosophy are ready help in almost everything, but especially in reference to implements and machinery.

"The thought recurs that education—cultivated thought—can best be combined with agricultural labor, or any labor, on the principle of thorough work; that careless, half-performed, slovenly work makes no place for such combination; and thorough work, again, renders sufficient the smallest quantity of ground to each man; and this again, conforms to what must occur in a world less inclined to wars and more devoted to the arts and peace than heretofore. Population must increase rapidly, more rapidly than in former times, and are long the most valuable of all arts will be the art of deriving a comfortable subsistence from the smallest area of soil. No community whose every member possesses this art, can ever be the victim of oppression in any of its forms. Such community will be alike independent of crowned kings, money kings, and land kings."

PURDY'S DUROC JERSEY SALE.

Mr. Geo. H. Purdy's dispersion sale of Duroc Jersey hogs took place as announced at Mason City, Iowa, February 3d. While the attendance was not large there were a large number of breeders present from Iowa, South Dakota, Minnesota and Wisconsin. Several other states were also represented by mail bids. It was a good, snappy sale and the average of \$72.90 was a good testimonial as to the high character of the offering. The two-year-old show sow, Lulu Wonder, rightfully topped the sale, going to Mr. W. E. Oliver, of Worthington, Minn., at \$202.50, and she was easily a bargain at that figure. Several other good ones passed the \$100 mark. Below we give a complete list of the sale:

Lot.	Price.
1. Nellie Chief, A. D. Mackrill, Platte, S. Dak.	\$ 59.00
2. Fancy P. 2d, G. H. Willies, Prosper, Minn.	35.00
3. Fancy P. 3d, Grant McGowan, Mason City, Iowa	100.00
4. Shiny Lady, Cahill Bros., Rockford, Iowa	101.00
5. Lulu Wonder, W. E. Oliver, Worthington, Minn.	202.50
6. Anna Keep On, John Roskamp, Kanawha, Iowa	62.50
7. Sister Anna, Cerwinski Bros., Rockford, Iowa	32.00
8. Fancy Advance, Homer Bailey, River Falls, Wis.	107.50
9. Nellie Banks, F. D. Phelan, Lake Mills, Iowa	61.00
10. Duroc Nellie, Jas. Roney, Doherty, Iowa	65.00
11. Chief Queen, Cerwinski Bros., Worthington, Minn.	71.00
12. Big Queen, J. B. Humeston, Worthington, Minn.	71.00
13. Phala's Lady, H. H. Andrews, New Providence, Iowa	77.50
14. April gilt, A. H. Bauer, Mason City, Iowa	58.00
15. April gilt, Chas. Grimm, Clear Lake, Iowa	41.00
16. April gilt, Nicholas Richards, Prosper, Minn.	41.00
17. April gilt, Cerwinski Bros.	46.00
18. April gilt, P. H. Cahallan, Carversville, Iowa	32.00
19. March gilt, F. D. Phelan	71.00
20. March gilt, J. D. Humeston	82.00
21. March gilt, Balmat & Son, Mason City, Iowa	82.00
22. March gilt, same	81.00
23. March gilt, R. M. Skillin, Greene, Iowa	92.00
24. March gilt, John Roskamp	75.00
25. March gilt, A. D. Mackrill	67.50
26. March gilt, J. Arbogast, Mason City, Iowa	39.00
27. March gilt, Ed. Freese, Nora Springs, Iowa	50.00
28. March gilt, Louis Klessig, New Richland, Minn.	62.00
29. March gilt, Cahill Bros.	55.00
30. March gilt, S. J. Butts, Mason City, Iowa	80.00
31. March gilt, L. F. Atwater, Bangor, Wis.	50.00
32. March gilt, C. E. Sweet, Portland, Iowa	87.50
33. March gilt, R. M. Skillin	104.00
Extra, same as 19. James Roney	80.00

Mr. A. M. Avery, of Mason City, Iowa, also sold a consignment of five nice gilts. These brought an average of close to \$35 each. The buyers were Mr. A. T. Swant, Doherty, Iowa; Mr. William Guidera, Winona,

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

1,000 ACRE FARM, 6 miles from Burlington, Kansas; 3 1/2 miles to station on Santa Fe; three sets improvements (value \$10,000); 300 acres under cultivation; 250 acres hog tight; clover, timothy and alfalfa; 700 acres blue stem pasture and meadow; lies fine; well fenced and cross fenced; never failing water; fruit all kinds; beautiful lawns; R. F. D., telephone and good school. Will divide in three farms. Must sell soon. Write to day for terms and fuller description to Olive C. Barrett, Route 6, Burlington, Kansas.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$5 per acre; only one fortieth cash, 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands, J. J. Snyder, School Land Locator, 505 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

FORCED TO SELL—80, well improved; beautiful home; school on farm; fine location; fruit; shade, 90 adjoining LaHarpe; fine black corn and clover land; good terms; must have some money at once. Write or come quick. I. E. Lineback, LaHarpe, Kansas.

SEND US your property; we will put you in touch with 500 parties waiting to exchange. Western Exchange, Suite 311 and 312, Scott Thompson Bldg., Oklahoma City, Oklahoma.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

500,000 ACRES of good grain land to be had under the homestead act near here; good climate. Address Business Men's Club, Columbus, Montana.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

FOR SALE—Two hundred forty acre farm near Austin, Minnesota; improved; good well, and buildings. E. G. Saelise, Cherokee, Iowa.

IF YOU want good and cheap farm lands, write us. We have them. Walter A. Evans & Company, Kiowa and Prior, Oklahoma.

BARGAINS in Kansas land. Write for free descriptions and price list. V. E. Niquette, Salina, Kansas.

Minn.; Mr. T. E. Wagner, Mason City, Iowa, and Mr. F. Zarhok, Manley, Iowa.

THE TRYON DUROC SOW SALE.

Quite a good crowd attended the sow sale of Messrs. John H. Tryon & Son, at Bancroft, Neb., on February 1st, and forty head cataloged averaged \$41.01. They sold about fifty head altogether that averaged right close to \$40, but we report only those that were cataloged for the sale. Queen's Perfection, a daughter of Proud Advance, out of a Perfection Chief dam, topped the sale at \$72.50, going to Mr. M. J. Kirwan, of Coleridge, Neb. Colonel Luther cried the sale. Below is a list of those selling for \$25 and above:

Lot.	Price.
1. Godfrey Butler, Bancroft, Neb.	\$36.00
2. E. J. Fletcher, Bancroft, Neb.	40.00
3. F. E. Young, Walt Hill, Neb.	56.00
4. Wm. J. Wilkinson, Deatur, Neb.	42.00
5. J. W. Northby, Bancroft, Neb.	43.00
6. Oscar F. Johnson, Oakland, Neb.	48.00
7. T. A. Gossard, Ponca, Neb.	59.00
10. R. Bantwell, Blencoe, Iowa	48.00
11. A. C. Hedges, Walt Hill, Neb.	37.00
12. Olof Munson, Anoka, Neb.	11.00
13. E. J. Young, Walt Hill, Neb.	26.00
14. M. J. Kirwan, Coleridge, Neb.	28.00
15. Marvin Dodson, Bancroft, Neb.	43.00
16. Carl Abbenroth, Bancroft, Neb.	33.00
17. M. J. Kirwan	48.00
18. Marvin Dodson	39.00
19. Same	45.00
20. Same	40.00
21. E. A. Palmquist, Oakland, Neb.	40.00
22. Godfrey Butler	45.00
23. M. J. Kirwan	72.50
24. Burton Getzmeier, Bancroft, Neb.	38.00
25. Wm. Presser, Bancroft, Neb.	30.00
26. Sears Thompson, Bancroft, Neb.	32.00
28. Carl Abbenroth, Bancroft, Neb.	26.00
29. Wm. J. Wilkinson	27.00
32. M. J. Kirwan	45.00
33. Oscar F. Johnson	36.00
34. C. C. Carlburg, Bancroft, Neb.	30.00
35. Louis Larson, Bancroft, Neb.	28.00
36. C. C. Carlburg	29.00
37. Louis Larson	29.00
38. Same	38.00
39. E. A. Palmquist	41.00
42. Burton Getzmeier	40.00
43. A. W. Barras, Rosalea, Neb.	44.00
44. R. Bantwell	25.00
45. Louis Larson	26.00
46. Jno. P. Anderson, West Point, Neb.	37.00
47. R. Bantwell	46.00
48. Farley Bros., Bancroft, Neb.	54.00
49. M. J. Kirwan	44.00
50. R. Bantwell	39.00
51. Same	37.00

PROPERLY GALVANIZED FENCE.

The writer, together with practically all other farmers, has experienced the difficulty of buying galvanized iron fences from which the galvanizing almost washed off as soon as it was put up. The question has been one of not a little interest and a great deal of curiosity as to why the good, old-fashioned galvanized wire is not now obtainable. This is answered in a little book, written by an expert on the subject, which gives all the reasons. The book, in fact, was written by Mr. Brown, of the Brown Fence and Wire Company, of Cleveland, Ohio. We would be glad if every reader of this paper would examine it and learn the causes of the troublesome matter connected with galvanized fences. It is free and may be had by writing to the Brown Fence & Wire Co., Dept. 34, Cleveland, Ohio. The advertisement of the Brown Fence & Wire Co. will be found on page 36.

REAL ESTATE.

COLORADO—20,000 acres of horticultural, agricultural and grazing lands in the sunny San Juan section of Southwestern Colorado. Some of the best irrigated lands in the West. Owing to our unlimited, free, open, summer range, we have a great stock country. For particulars, call on or write us. The Boyle Realty Co., Durango, Colorado.

FREE government farms. Our official 112 page book "Vacant Government Land" describes every acre in every county in U. S. A million acres vacant. How to secure 160 acres by entry, 1909 diagrams. All about irrigated farms. Price, 25c, postpaid. Webb Pub. Co., Sta. 4, St. Paul, Minnesota.

THE TEXAS Panhandle—Wheat, corn, hogs. Come to Swisher county, the heart of cheap, rich, level land. Sure crops. High altitude, delightful climate. No cyclones, no floods. Free descriptive booklet T. Write James Frye, Secretary, Commercial Club, Tulsa, Texas.

PANHANDLE of Texas—Fine, smooth, rich, prairie lands; well located; improved and unimproved in tracts of 160 acres or more. Prices and terms right. For list, descriptive pamphlet and card showing rainfall, address W. Latney Barnes, Box 85, Amarillo, Texas.

280 ACRE, highly improved farm, 1/2 mile good town; new 6-room house; large barn; 150 acres bottom land; lots hog fence; well and windmill 90 acres pasture (running water in pasture), balance in cultivation. \$50 per acre. Gile & Bonsall, South Haven, Kansas.

FOR SALE—Southeastern lands, timber tracts, truck, fruit, stock and poultry farms. Land costs less, production greater, labor cheaper than North and West. Markets at your door. Abundant rainfall; ideal climate. L. M. Hull, Agent, Cedar Rapids, Iowa.

FOR SALE—Good farm 2 miles from New Richland, Minnesota. 320 acres; good buildings; farm fenced in lots; over 7 miles of fence; no waste land and very best soil. Reason for selling, my boys are all girls. C. A. Wagner, New Richland, Minnesota.

SELL your property for cash in less than 30 days; properties and business of all kinds sold quickly in all parts of the world. Send description today; we can save you time and money. The Real Estate Salesman, H. F. Hinkle Bldg., Lincoln, Nebraska.

HALF SECTION, 4 1/2 miles from Dickinson, N. D., town of 5,000; improvements worth \$1,500; coal deposits and spring creek on place; good land and cheap at \$22.50 an acre. One-half cash. Owner advertising. Sunnycrest Farm, Bismarck, N. D.

WANTED—Farms and businesses. Don't pay commissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties free. American Investment Association, Minneapolis, Minn.

160 ACRES choice wheat land for sale or rent in famous Red River Valley, at bottom prices. All cultivated, improved. Three miles from Neilsville, Polk County, Minnesota. Will take \$25 per acre. Theo. Negard, Rugby, North Dakota.

LAST YEAR'S CROPS over \$3,000. 234 acres; 12 room house; basement barn 32x116, concrete floors; barn 24x26; apple, pear, berries; 1/2 mile railroad town; \$5,000; terms. Hall's Farm Agency, Owego, Tioga County, New York.

READY—Snap in Oregon. 1,000 acres choice apple land at \$20. Will be worth \$75 soon. Farms 80 acres up, close to town and in our delicious climate. Do you want any? Write quickly. Wm. Ritchie Land Co., Albany, Oregon.

FORTY THOUSAND acres of land in finest valley in west Texas, near town of La Valley, for sale; close to R. R.; from 3 to 5 dollars per acre. Correspondence solicited. Nield Dunson Realty Co., La Valley, Texas.

TO EXCHANGE—Quarter section land; New Rockford, North Dakota; all under cultivation; worth \$4,800; cash \$1,500; incumbrance for registered Percheron or Belgian mares. Box 45, Yates City, Illinois.

FOR RENT—A fine 200 acre dairy farm near Superior, Wisconsin. Ninety acres under cultivation; good buildings. A splendid chance for the right man. Address W. H. Webb, Superior, Wisconsin.

CASH for your business or farm. No matter where located or what your property is worth, if you want to buy, sell or exchange, address Frank P. Cleveland, 1279 Adams Express Building, Chicago, Ill.

FOR SALE—85 acres, 3 1/2 miles from Medford, Wisconsin; 15 acres cleared; balance log timber; 5 room frame house; log barn; all personal property; for \$2,700. Oscar Nystrum, Medford, Wisconsin.

FOR SALE—300 well improved farms in northeast Kansas, at prices from \$50 to \$100 per acre. Write for price lists and description to Manville & Bailey, Holton, Jackson County, Kansas.

FOR SALE—293 acres of the choicest land in the state of Kansas. Owner is non-resident and will sell at a big bargain. This is a snap. Write for full particulars. R. G. Tonkin, Abilene, Kansas.

CORN, wheat and all staple crops grow to perfection here in the garden spot of Oklahoma. Prices reasonable. Write for list and descriptive literature. C. E. Pochel, Newkirk, Oklahoma.

LAND—BOTH RAW and irrigated, under new ditches and new railroads in Weld county is attracting many investors and home seekers. Write D. W. Rummels, Greeley, Colorado.

SO E. Z. TO get a nice farm home in the mild climate of Virginia. May we tell you how? Casselman & Co., est. 20 years, Richmond, Virginia.

FOR SALE—Unimproved land in East Central Minnesota, the home of the big red clover. Write Olof Wasenius, Farwell, Minnesota.

FOR SALE—Splendid, improved, Southern Minnesota farm, 150 acres, will be sold at a bargain. H. H. Hiniker, Mankato, Minnesota.

160, 1/2 MILE of Milan, Kansas. River bottom. To close estate. Also 160, Hamilton County, Kan. M. Crenshaw Milan, Kansas.

CHOICE BARGAINS—80 to 320 acre farms; good quality soil; fine locations. Write for list. J. M. McCown, Emporia, Kansas.

SNAP—Montana choice fruit and agricultural ranches. For particulars, write Miller & Clement, Belfry, Montana.

BOOK OF 500 farms and merchandise, trades free. Graham Brothers, El Dorado, Kansas.

SEEDS AND NURSERY STOCK.

SEED CORN—Johnson County White and Yellow Dent, awarded grand champion sweepstakes at Omaha, Nebraska. Have won numerous prizes. Either shelled or in ear. Satisfaction guaranteed. J. A. Stainbrook, Franklin, Indiana.

SEED OATS—Regenerated Swedish Select, Early Kherson, Swedish Select, (Wisconsin No. 4). America's three best oats. Farmers' pride. Recleaned. Sample and circular. Alfred Klein, Lomira, Wis.

I HAVE 2,000 bushels 1908 crop Dakota grown Iowa Gold Mine seed corn. Write for sample and price, L. N. Crill, Elk Point, South Dakota.

POULTRY.

45 BREEDS fine pure bred chickens, ducks, geese and turkeys. Northern raised, hardy, the greatest winter laying and prize strain in America. 4,000 prices. Fowls at lowest price. Catalog for stamp. Ziemers Poultry & Bee Farm, Austin, Minn.

AFTER ALL, you will decide to deal with me, as I sell fancy poultry cheaper than any dealer. Why not get my catalog? Card returned, with 6 of my poultry leg bands for sending address to F. J. Bangasser, Freeport, Illinois.

FIFTY VARIETIES of pure bred chickens, ducks, geese and turkeys. Incubators and brooders. Large illustrated catalog mailed for 4c postage. C. M. Atwood, Dundee, Minnesota.

POULTRY WANTED—Leading breeds of thoroughbred chickens, ducks and turkeys. Describe fully, quoting lowest price. Bunker Hill Poultry Farm, Mankato, Minnesota.

45 BREEDS pure-bred chickens, ducks, geese, turkeys and incubators. Send 4 cents for large poultry book and price list. H. H. Hiniker, Dept. 5, Mankato, Minnesota.

CORNISH INDIANS exclusively; 30 cockerels, good size, heavy bone, fine plumage. Eggs in season. Mrs. Jno. E. Griffith, Washington, Iowa.

WRITE QUICK! going fast; prices right. Single Comb Reds, Columbian Wyandottes, Partridge Cochins. W. J. Casey, Knoxville, Iowa.

SINGLE COMB, Rhode Island Reds. A few choice cockerels for sale. Eggs orders hooked now. Chas. S. Terrell, Bedford, Iowa.

BUFF ROCK cockerels and Pekin ducks of good size and color. Prices right. Mrs. John Martin, Mason City, Illinois.

SILVER SPANGLE Hamburgs; one cockerel and two pullets for \$4.50. A. Arends, Blairsburg, Iowa.

FOR SALE—Barred Plymouth Rock cockerels, \$2 and up. Aye Bros., Grant St., Blair, Nebraska.

30 BREEDS geese, ducks, chickens. Catalog free. Minkel & Co., Mapleton, Minnesota.

WRITE ME for Pekin ducks and Toulouse geese. Frank Martin, Clare, Iowa.

FOR SALE—Large Embden geese. Hiram Clouss, Clare, Iowa.

HELP WANTED.

WANTED—Railway mail clerks, postoffice carriers, clerks, custom house clerks. Salary \$600 to \$1500. Steady work, short hours, annual vacations, salary twice monthly. Thousands of appointments during 1910. City and country residents stand equal chance. Common school education sufficient. Political influence not needed. To advertise our schools we are preparing candidates free. Write immediately for schedule showing dates and places of examinations. Franklin Institute, Department P. 26, Rochester, N. Y.

CIVIL SERVICE employees are paid well for easy work; examinations of all kinds soon; expert advice; sample questions and booklet 804 describing positions and telling easiest and quickest way to secure them free. Write now. Washington Civil Service School, Washington, D. C.

WANTED—Railway mail clerks, conductors, motormen, firemen, brakemen. Large salaries, fascinating work. Good men needed. Select your choice and write immediately. American Railway Institute, Dept. H, Kansas City, Missouri.

GOVERNMENT farmers wanted. Salary \$75 monthly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42 F. St. Louis, Missouri.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination; 100 free scholarships. Write for schedule and free trial lesson. Ozment, Dept. 42 F. St. Louis, Missouri.

CUSTOM house clerks wanted. Spring examinations. Preparation free. Franklin Institute, Dept. P. 26, Rochester, N. Y.

LIVE STOCK.

FOR SALE—Our grand prize winning Norman stallion, Waterloo 12661. Guaranteed an excellent breeder and right in every way. If you want the best, write or call on us near Manson, Iowa. Nordhausen & Schmidt.

FOR SALE—One fullblooded Angus bull 3 years old; sure breeder. Also 29 good, young, high grade Angus cows, bred and open. Write Frank Kahler, Prairie du Chien, Wisconsin.

FOR SALE—Imported black Percheron stallion, eight years old, weight 1,750; good breeder; low price on account of going out of business. Nelsie Monson, Swedesburg, Iowa.

CHOICE Polled Durhams, No scurs. F. Bunker, Kilbourn, Wisconsin.

DOGS.

FORTYFOUNDS—Pedigreed Bidsong and Walker strains. Most successful coon, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

COLLIE PUPS for sale from the best champion and imported strains. They make great workers, good watch dogs and handsome pets. Write me your wants. Leroy A. Hays, Knoxville, Iowa.

THOROUGHbred coon, fox and wolf hounds, trained and untrained. These dogs are guaranteed. Address Morris Murphy, Bentonport, Iowa.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. H. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

AGENTS WANTED.

WE PAY \$80 a month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bigler Company, N425, Springfield, Illinois.

POST CARDS.

25 FINE ART post cards, postpaid 10 cents. Satisfaction guaranteed or money back. Address William Holter, Box 245, Dequene, Arkansas.

MISCELLANEOUS.

SAVE one-fifth your coffee. Make 15 cent coffee taste like the 30 cent kind. Use the Sanitary Percolator, guaranteed. 30 cent size makes 2 to 8 cups, 50 cent size, 8 to 15 cups. Sent postpaid on receipt of price. Necessity Supply Co., Toledo, Ohio.

THE WORLD'S finest penman will send free circulars of his famous lessons in writing for home practice, his favorite pen, and make you a special offer. Francis B. Courtney, Box 129, Cedar Rapids, Iowa.

FROZEN FISH—Fresh frozen Lake Superior fish, direct from the fisheries to consumers. Write E. Kenner (Wholesale Fish), Dubuth, Minnesota.

WRITE TO King Publishing Co., Cedar Rapids, Iowa, for information describing the best Farmers' Account Book published.

TENURE OF RURAL SCHOOL TEACHERS.

Granted that a good corps of teachers has been selected by the board, the next problem is how and how long, to retain them, writes Principal Sampson of the state normal school of Washington.

Help them to secure good boarding places, for they will enjoy your neighborhood or your city much better if they have pleasant economical places in which to stay.

Open your homes to them occasionally and get your neighbors to do likewise. Give them encouragement.

If they do things well, occasionally show appreciation. If they make mistakes, be patient with them and help them with your counsel and your support as much as you can. You, as a father or a mother, have made many mistakes with your own children, have you not? You have spanked where coddling were better and coddled where spanking were better. Do you wonder, then, that this teacher, not as interested as you, not knowing the child in his hereditary tendencies and environment as well as you, not as old and mature as you, and handling thirty or forty children, do you wonder, I say, that she makes mistakes? How many would you make if you were in her place? If she makes mistakes, then give her your judgment, sympathy and support.

Successful teachers are in strong demand all over the state, and more and more are boards willing to pay a better price to get a very successful teacher.

To retain this teacher in your community, then, each year she serves show your confidence and appreciation in her by giving her an increase of salary. This is done in business and it pays.

If you get a new teacher, you risk getting one who is not so successful as the one you let go, and the money you saved by getting a new teacher, rather than increasing the salary of the old, you more than lose because the new teacher wastes a month or more in getting acquainted with the children and with the conditions of your neighborhood.

Would you like to change your family physician once a year because the other fellow will work for a pittance less than the one who has proved himself? Would it be wise for Wenchatchee, North Yakima and White Salmon to cut down their orchards and change their crops? Would it be wise for Clealum and Kennewick to discontinue raising small fruits and take up some uncertain crop that has not yet been proved in these localities? Shall the Big Bend and the Palouse discontinue wheat raising and take up that which, five chances out of ten will be a failure?

No more is it wise, then, for a school district to give up a tried, successful teacher because it will cost a little bit extra each year to retain her, and pay a few dollars less per month to get, as a new teacher, an uncertain quantity.

LONERGAN AVERAGES \$72.85 ON POLANDS.

One of the best Poland China sales held west of the Missouri river so far this winter was that of Mr. D. C. Lonergan, at Florence, Neb., on February 4th. Forty-three head sold for \$3,132.50, or at an average of \$72.85. It was a great offering and was appreciated by the buyers present. The breeders of Nebraska and Iowa were out in full force and bought most of the offering. There were also breeders from other states present and it was one of the most representative gatherings we have seen at a ringside this winter. Mr. Frank Patton, of Surprise, Neb., got No. 2, a Big Victor fall yearling, at \$125, and Mr. Herman Baltz, of Fremont, Neb., secured a Guy's Price 2d gilt at the same figure, these being the top sows in the sale. It was an even run of prices, there being nothing very high, and but one sow sold below \$50. Mr. Lonergan can feel well pleased with his sale and the way the breeders turned out. It certainly places the Lonergan herd today in the front rank of Poland China herds in the state of Nebraska. Col. Harve Duncan cried the sale and its outcome was largely due to the way he handled his crowd. Below is a list of the entire offering:

Lot.	Price.
2. Frank Patton, Surprise, Neb.	\$125.00
3. John Schmieder, Remsen, Iowa.	105.00
5. W. E. Zimmerman, Neola, Iowa.	60.00
6. Fred Willey, Columbus, Neb.	65.00
7. H. P. Kuhl, Florence, Neb.	57.50
4. Geo. Brown, Elk Creek, Neb.	87.50
9. Wm. Ray & Son, Defiance, Iowa.	77.50
10. J. C. Hardman & Son, Brayton, Ia.	67.50
11. J. C. Barton, University Place,	67.50

12. Geltson Bros., Elk City, Neb.	87.50
14. Peter Peterson, Cedar Bluffs, Neb.	105.00
15. H. O. Williamson, Herman, Neb.	85.00
15½. Herman Baltz, Fremont, Neb.	125.00
16. Peter Peterson	75.00
17. Same	75.00
18. Julius Stein, Bloomfield, Neb.	65.00
20. Frank Owen, Council Bluffs, Iowa	37.50
21. Same	107.50
22. C. L. Kramer, Bancroft, Neb.	85.00
23. Same	67.50
24. N. B. Freeman, Kearney, Neb.	92.50
25. J. P. Peterson, Herman, Neb.	50.00
26. Same	60.00
27. C. C. Polly, Whiting, Iowa	60.00
27½. J. L. Copple, Bancroft, Neb.	50.00
28. E. A. Schug, Coleridge, Neb.	70.00
29. H. P. Kuhl	50.00
30. H. F. Dadds, Florence, Neb.	65.00
31. James Cockerton, Whiting, Iowa.	100.00
32. Geltsen Bros.	67.50
34. W. M. Shrader, Greenfield, Iowa.	65.00
35. H. A. Borts, Benson, Neb.	50.00
36. Peter Gaspard, Lindsey, Neb.	65.00
37. Carl Mark, Neola, Iowa.	65.00
38. P. E. Fifield, Woodbine, Iowa.	67.50
39. C. L. Harper, Allen, Neb.	67.50
40. H. A. Borts	70.00
41. Geltson Bros.	60.00
42. Elmer Crow, Woodbine, Iowa.	60.00
43. F. E. Fifield	65.00
44. King Bros., Albion, Neb.	65.00
45. C. L. Kramer, Bancroft, Neb.	60.00

THOS. JOHNSON & SONS' SUCCESSFUL DUROC SALE.

One of the most successful sales of the season was that of Messrs. Thos. Johnson & Sons, of Columbus, Ohio, on February 3d. It was the best offering of the season held east of the Mississippi river. Much credit is due to Mr. O. A. Ontram, manager, and Herdsman Sol Miller for the condition of the offering. With these two able men in charge of their Duroc Jerseys Messrs. Johnson will undoubtedly breed and develop a great lot of hogs from this famous herd. Mr. H. E. Lavelly, of Galloway, Ohio, bought the two top sows of the sale at \$225 and \$156 respectively. Sows bred to the two great herd boars, Orion Chief and High Chief, were in great demand. Colonels Igleheart, Reppert, Lincoln and Vinnege sold the offering. Below we give list of prices paid and buyers:

2. A. P. McDaniel, Plain City, Ohio	\$ 56
3. H. D. Yates, Delaware, Ohio	42
4. W. B. Cline, Camden, Ohio	50
5. Dwight Lincoln, Milford Center, O.	101
6. S. E. Morton, Camden, Ohio	75
8. W. F. Farrington, Milford Center, O.	73
9. Joe Staley, Sidney, Ohio	46
10. H. D. Yates	41
11. Menanah Bros., Mazon, Ill.	67
12. J. D. Love, Rushville, Ohio	51
13. E. C. Stemen & Son, Middlepoint, Ohio	96
13½. Whitehall Farm, Yellow Springs, Ohio	75
14. J. H. Bell, Grove City, Ohio	46
15. Wm. Watson, Marion, Ind.	52
16. P. A. Kramer, London, Ohio	60
17. H. E. Lavelly, Galloway, Ohio	156
18. C. B. Wright, Ada, Ohio	58
19. Dwight Lincoln	60
20. D. O. McKinley, Orient, Ohio	67
21. C. J. McLaughlin, Pleasantville, O.	55
22. Truman Monday, Boonville, Ind.	50
23. H. E. Herron, Hartford City, Ind.	61
24. S. E. Lieter, Georgeville, Ohio	54
25. W. F. Farrington	59
26. W. P. Penry, Radnor, Ohio	75
27. Joe Staley	76
28. W. Kilgour, Plain City, Ohio	71
29. H. E. Lavelly	255
30. C. J. McLaughlin	68
31. A. Stuart	101
32. Hughes Spuhr, Lexington, Ky.	55
33. Watt & Foust, Cedarville, Ohio	75
34. C. C. Cushman, Chillicothe, Ohio	91
35. W. P. Penry	60
36. J. S. Peters, W. Manchester, Ohio	43
37. O. P. Shoats, Marion, Ohio	53
38. C. B. Harness, Waynesville, Ohio	63
39. J. A. Middleton, Shelbyville, Ky.	58
40. Geo. W. Balis, Bryant, Ind.	80
41. Howard Gerlaugh, Osborn, Ohio	70
42. J. E. Free, Good Hope, Ohio	51
44. A. Evans, Saybrook, Ill.	38
44½. O. P. Shoats	48
45. Joe Staley	56
46. C. C. Cushman	55
47. Whitehall Farm	50
54. C. C. Cushman	74
56. Whitehall Farm	70
57. Bardwell & Barnard, McHenry, Ky.	98
58. W. S. Miller, Urbana, Ill.	50
59. Mahan Bros., Osborn, Ohio	70

SUMMARY.

51 head	\$3,505; average....\$68.75
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EDMONDS, SHADE & CO. AVERAGE \$82.

The largest crowd of breeders and farmers seen at a sale this winter gathered at the home of Messrs. Edmonds, Shade & Co., of Kingsley, Iowa, on February 3d, and they saw there one of the greatest offerings of Duroc Jersey brood sows that have been sold at public sale this winter. This sale had been well advertised and nothing was left undone in the way of attending to the wants of those present. The offering was strictly first class in every particular and thirty-seven head of the tops in the sale made an average of \$82. There were eighteen head of "extras" on a separate slip, made ready for those who might not be able to buy from the catalog and counting these the average was almost \$80. No. 20, an April gilt by G's Col., topped the sale at \$150, going to Mr. James Williams, of Marcus, Iowa. Her litter sister went to Messrs. James Henderson & Son, of Coleridge, Neb., at \$130, and she was a great bargain at that figure. Messrs. Nicholson Bros., of Lynd, Minn., got an excellent American Royal sow bred to Col. Scott at \$110 and Messrs. A. Lentz & Son, of Pierson, Iowa, got a Prince of Cols. gilt at the same figure. Mr. A. E. Cook, of Odebolt, Iowa, secured No. 3, an Ohio Chief sow, at \$104, and Mr. W. N. Shank, of Worthington, Minn., got a good daughter of Achiever bred to Carl's Col. at \$101. Mr. Chas. E. Walden, of Washta, Iowa, got a Tientsin II. sow, bred to Carl's Col., at \$100, and Mr. David Blair, of Kingsley, Iowa, got a daughter of Tientsin, bred to Iowa Notcher, at the same figure. Mr. Grant Hockett, of Manning, Iowa, got a good King of Cols. sow, bred to the great young boar,

Defiance, at \$97.50, and Mr. H. P. Rice, of Holstein, Iowa, got an Ed's Col. sow bred to the same boar at the same figure. The sale was rather an unusual one in point of breeding and individual merit. There was nothing very high and nothing very low, and everybody who bought a sow in this sale got his money's worth. Colonel Luther cried the sale and did good work. Below we list those sows selling for \$40 and above:

Lot.	Price.
1. H. P. Rice, Holstein, Iowa	\$ 97.50
2. G. W. Hockett, Manning, Iowa	97.50
3. A. E. Cook, Odebolt, Iowa	104.00
4. David Blair, Kingsley, Iowa	100.00
6. A. Lentz & Son, Pierson, Iowa	110.00
7. John Thompson, Lake City, Iowa	122.50
8. Nicholson Bros., Lynd, Minn.	110.00
9. G. W. McKnight, Howell, Ky.	77.50
10. A. Lentz & Son	60.00
11. S. P. Freed, Ames, Iowa	61.00
12. A. E. Cook	67.00
13. List Bros., Granville, Iowa	48.00
14. A. E. Cook	50.00
15. H. L. Cantine, Quimby, Iowa	70.00
16. Philo Wilcox, Early, Iowa	53.00
18. John H. Tryon & Son	60.00
19. Henderson & Son, Coleridge, Neb.	130.00
20. James Williams, Marcus, Iowa	150.00
22. Claud Huffman, Scranton, Iowa	84.00
23. H. P. Jacques, Galva, Iowa	46.00
24. M. W. Putnam, Tecumseh, Neb.	62.00
25. Chas. E. Walden, Washta, Iowa	100.00
26. H. C. Hall, Brunswick, Neb.	78.00
27. T. H. Wadsworth, Gayville, Iowa	49.00
28. Chas. Wolfe, Holstein, Iowa	82.00
29. A. Knudsen, Broadhead, Wis.	71.00
30. W. N. Shank, Worthington, Minn.	101.00
31. R. J. Harding, Macedonia, Iowa	68.00
32. A. E. Cook	90.00
33. Ira Stouffer, Kingsley, Iowa	50.00
34. M. C. Thompson, Kingsley, Iowa	60.00
35. F. H. Behrre, Alta, Iowa	39.00
36. Same	53.00
37. A. E. Cook	50.00
38. Same	66.00
39. Chas. Wolfe	41.00
40. August Ruether, LeMars, Iowa	51.00
42. John H. Tryon & Son	70.00
43. Same	75.00
44. J. B. Clark, Kingsley, Iowa	41.00
46. Philo Wilcox	72.00
47. James Pratt, Kingsley, Iowa	46.00
48. M. S. Moats & Son, Kingsley, Ia.	50.00
49. Arthur Richardson, Kingsley, Ia.	61.00
50. P. H. Mason, Kingsley, Iowa	41.00
52. G. B. Bennett, Kingsley, Iowa	50.00

SEED CORN ON TRIAL

TESTED---GUARANTEED---HIGH GERMINATION

Why plant doubtful seed corn when you can get the best that grows, at a reasonable price. PURE BRED, practical varieties---yields big crops and make good money. We have it. We know it so well that we fully GUARANTEE IT. Test it any way you want and if not fully satisfactory, return it at our expense. Fair corn of high germination, be sure of your seed and take no chances on doubtful seed.

Wouldn't you like to have some samples of seed corn, suitable for your location and our fine illustrated catalog, telling about our guaranteed seed. All free---write today.

A. A. BERRY SEED CO.,
Box 683 CLARINDA, IOWA.



THIS BALL-BEARING SCALE

Guaranteed U. S. Standard AT WHOLESALE PRICE

Let us save you \$25 to \$50 on the finest scale made. The ball-bearing principle alone doubles its value---gives a freedom of movement that prevents Binding and Clogging.

The only scale sold at wholesale price to farmers on 30 Days' Free Trial---on a full 10 Years' guarantee. Requires no pit-digging, no wood except floor. Don't take the other fellow's weights.

Write for price, freight paid, free trial and guaranty. Use nearest address.

INDIANA PITLESS SCALE COMPANY
Box 15A, New Castle, Indiana
Department 15, Kansas City, Mo., Station A

Seed Oats

FERGUSON'S EARLY NEW MARKET

They are extra large, plump, white seeds. They weigh 50 pounds per bushel and 45 pounds per bushel. Government test. They are free from fowl seed. We grow seed oats exclusively on our own farms in Canada.

They ripen two or three weeks earlier than other oats, and produced 100 bushels per acre on several farms last year. Read what the Grain Inspector and Farmers say:

Your Ferguson's White Early New Market seed oats grades No. 1 white, which is the highest grade. They are beautiful in color and unusually heavy, clean and admirably adapted for seed. Farmers could afford to pay good price for such a quality of seed oats

J. N. Barnard,
Govt. Grain Inspector, Minneapolis.

We sowed 50 acres of your oats, and farmers drove 25 miles to see it. You have the best oats I have ever seen; they are all that you represent them to be.

Northwestern Agriculturist, Minneapolis.

Your oats were exactly as you represented them. They had good growth of straw; long, heavy heads, but they did not fall. They threshed 75 bushels per acre and

40 pounds per bushel. This makes 93½ bushels per acre by weight.

Walter Kosene, Kandiyohi, Minn.

Send 10 cents in stamps for large sample of Ferguson's Oats, and you will learn why the farmers are so well pleased with their crops from our seed.

Small sample FREE.

SPECIAL \$150 PREMIUMS. We will give \$100 in cash for the best peck of oats grown from our seed in 1910. We will also give \$50 in cash for the best photograph of oats just before cutting or in the shock. Any farmer or farmer's boy who purchases two or more bushels of our oats may earn these premiums.

P. L. A. FERGUSON CO., SEEDSMEN,
510 Nicollet Avenue, MINNEAPOLIS, MINNESOTA.

Write Me Before You Buy Your Fanning Mill \$750 For a Postal.




Be sure you get my big, free illustrated book and prices. I'll also send you a check for \$7.50 good at your dealer or at my factory upon the purchase of a

FOSSTON Automatic Grain Cleaner & Corn Grader

I'll give you 30 Days to try it in at my expense, and if you do not find it to be the best all-round Separator, Grader and Cleaner you ever saw, return it. The Fosston is 2 machines in 1. It's a Grain Cleaner and Grader and a Selector of Best Seed Corn. Guaranteed personally by me to absolutely produce the best kind of uniform, plump, healthy seed.

Write me before you decide. It will pay you to get my big book.

S. N. Sorensen, President Fosston Manufacturing Co.
450 Cleveland Ave., ST. PAUL, MINN.



RUSSIA LEADS IN WHEAT.

The United States has lost the distinction of being the largest wheat-producing country in the world. Russia now heads the list. That country produced 783,000,000 bushels of wheat in 1909, according to reports received by the department of agriculture. The crop of the United States last year was 737,000,000 bushels. Only once before has the crop exceeded this quantity. It was 748,000,000 bushels in 1901. Russia's crop last year was 213,000,000 bushels greater than in 1908 and 100,000,000 bushels greater than the largest previous crop. About one-fourth of the crop is exported. Russia consumes more rye than wheat. Its area devoted to producing rye is 72,000,000 acres.

An increase of 387,000,000 bushels, or nearly 18 per cent, in the wheat crop of 1909, over that of 1908, in a dozen countries which raise more than 80 per cent of the world's supply, exclusive of the crops of India and the southern hemisphere, is shown in reports received by the department of agriculture. All countries report an increase except Germany, Hungary and Bosnia-Herzegovina.

The condition in which the fall sown crops entered winter is satisfactory except in Great Britain and Russia. An official crop report from Russia rates the crops as "below average" in provinces that contain 53 per cent of the rye acreage and 41 per cent of the area of winter wheat.

OPENING HIGHLAND PARK COLLEGE.

The last half of the college year opens February 22d at the Highland Park College, Des Moines, Iowa. There are two full quarters of twelve weeks each yet this college year. New students may enter any department of the college at this time just the same as at the beginning of the college year. Beginning and advanced classes will be organized in all departments and special classes will be provided for all students of any degree of advancement. Highland Park College is one of the leading educational institutions of the middle West and many of the most successful business and professional men are graduates of this institution. Look up the advertisement on page 45 of this issue and write for special information regarding any department in which you may be interested, kindly mentioning The Homestead.

W. J. CROW'S FIFTEENTH ANNUAL BRED SOW SALE.

This sale was held on Mr. Crow's farm, adjoining the town of Maclay, Iowa, on February 2d, selling fifty-four head at an average of \$63.75 per head. The first forty-five head that went through the ring made an average of \$66.75. Mr. Crow's offering was an exceptionally good one and a good many prominent breeders who attended this sale made the remark that it was the best lot of Poland China bred sows and gilts of the large and prolific type that they ever saw in any one offering, and Mr. Crow is to be commended for being able, after twenty years of successful breeding to offer to the public one of the best offerings of Poland China bred sows and gilts that will be offered in the state of Iowa this year. He was greeted on the day of the sale with buyers and mailed bids from several different states—Minnesota, Wisconsin, Illinois, Nebraska, South Dakota, as well as Iowa. Col. W. R. Ritchie, of Marathon, Iowa, and Colonel Jensen, of Newell, were the auctioneers, and did ample justice to the offering, although they did not sell the hogs at any more than their value. Mr. Crow expressed himself well pleased with the outcome of his sale, and wishes to thank one and all for their liberal patronage and attendance, and hopes to meet them all again another year with just as good an offering. Mr. George Glenn, of Sioux Rapids, Iowa, that veteran good Poland China breeder, secured the highest-priced sow in the sale, being a February gilt of 1909, the daughter of Big Surprise and out of Lady Tecumseh, at \$150. Below we give you a list of the hogs that brought \$40 and better:

AGED SOWS.	
1. H. G. Thornberg, Sioux Rapids, Iowa	\$ 80.00
2. A. T. Gerbe, Sioux Rapids, Iowa	65.00
3. H. G. Thornberg	65.00
4. H. Mills, Gillet's Grove, Iowa	61.00
5. Same	52.50
6. G. H. Beecher, Charles City, Iowa	65.00
7. J. F. Zerbe, Sioux Rapids, Iowa	82.50
8. Jensen Bros., Melbourne, Iowa	50.00
9. Oliver Landness, Sioux Rapids, Iowa	77.50
10. F. E. Dailey	47.50
11. R. J. Godfrey, Osage, Iowa	115.00
12. D. Marker, Webb, Iowa	75.00
13. Pepon Bros., Warren, Ill.	80.00
14. Ruebel Bros., Marathon, Iowa	57.50
15. J. J. Kramer, Hospers, Iowa	57.50
16. E. F. Hulbert, Stonington, Ill.	55.00
17. F. A. Anderson, Vermilion, S. D.	52.50
18. Wm. Lentz, Ankeny, Iowa	57.50
19. Geo. Speed, Webb, Iowa	67.50
20. F. Garwin	70.00
21. C. R. Adams, Laurel, Neb.	70.00
22. R. A. Schug, Coleridge, Neb.	65.00
23. D. Snyder, Sioux Rapids, Iowa	70.00
24. Jack Brown, Spencer, Iowa	55.00
25. J. F. Zerbe	50.00
26. R. Jones, Marathon, Iowa	45.00
27. George Speed	60.00
GILTS.	
28. R. A. Schug	90.00
29. George Glynn, Sioux Rapids, Iowa	150.00
30. J. J. Kramer, Hospers, Iowa	82.50
31. J. C. Bailey, Marshalltown, Iowa	72.50
32. Pepon Bros.	70.00
33. Geo. Castle, Inwood, Iowa	70.00

35. W. J. Graham, Howard Lake, Minn.	90.00
36. R. Jones, Marathon, Iowa	55.00
38. W. M. Carey, Fonda, Iowa	80.00
39. Gus Carlson, Royal, Iowa	55.00
40. Oliver Landness, Sioux Rapids, Iowa	52.50
41. H. G. Thornberg	50.00
42. Oliver Landness	72.50
43. L. F. Silkey, Sioux Rapids, Iowa	60.00
44. P. Cady	40.00
45. W. Gehring, Rossie, Iowa	45.00
46. J. T. Adamson, Iowa Falls, Ia.	72.50
48. Mr. Fisher, Marathon, Iowa	67.50
49. C. R. Adams, Laurel, Neb.	65.00
50. Walter Freeman, Marathon, Iowa	40.00
51. Farver Bros., Osceydan, Iowa	57.50
52. Sullivan Bros., Sanborn, Iowa	47.50
53. L. Gillette, Hampton, Iowa	40.00
53. H. C. Marr, Fostoria, Iowa	45.00
54. Walter Freeman, Marathon, Iowa	45.00

FREE BOOK ON BUILDING HOUSE PLANS.

The Chicago House Wrecking Company will send free to readers of this paper a book which is one of the most handsome and best illustrated catalogs of building design ever produced. It is a practical work of art by the best architects and will be sent out without obligations of any kind to any of our readers who intend building or who have any future prospects of building a home or a barn. It contains reproductions of photographs and is true to life in every way. It explains in detail the money-saving offers made by the Chicago House Wrecking Company. The Chicago House Wrecking Company will also send to readers of this paper, who will write for it, a 500 page book profusely illustrated and containing descriptions of bargains in various lines of merchandise. It illustrates the vast lines of merchandise that are secured by this company at sheriffs', receivers' and manufacturers' sales. It costs the company \$1 each to get these catalogs out, yet they will send it absolutely without charge of any kind and without obligations being made by the readers of this paper. This is a compliment to the readers of this paper, whom the Chicago House Wrecking Company know from past experience are well-to-do and not curiosity seekers. On the back page of this paper appears a page advertisement for the Chicago House Wrecking Company in which many of the bargains described in their catalogs and a few of the house and barn designs from their building plans are illustrated. Look over this advertisement and write to the Chicago House Wrecking Company, 35th and Iron Sts., Chicago, Ill., using the coupon found in the advertisement.

QUALITY IN FARM MACHINERY.

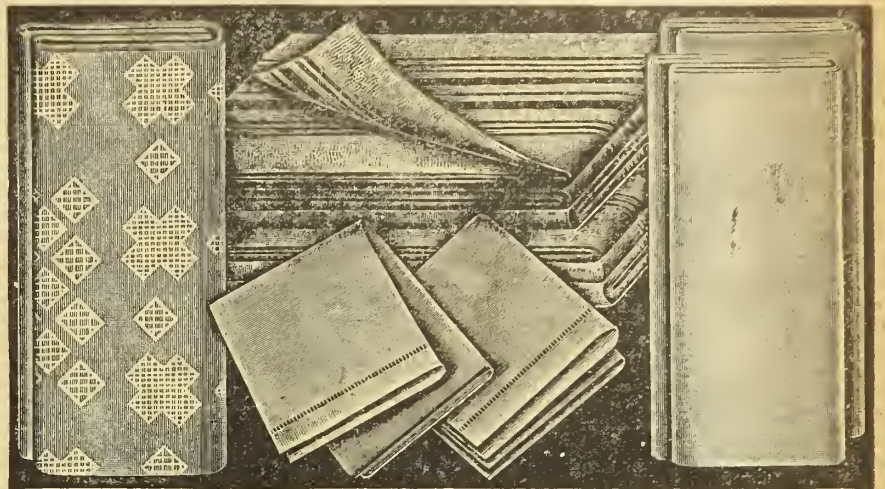
It is a general failing in humanity to look at the point of cheapness rather than that of durability. In particular does this apply to manure spreaders. The spreader is a machine requiring as much as any other absolute strength and the use of materials which show a length of life that will justify the expenditure. A manure spreader is a necessary equipment of the farm. It is an implement for not only one year nor a series of years, but for all time. Therefore it stands the buyer in hand to purchase that spreader which, while doing the work as effectively as any other, has the additional value of being more durable. These are just the points which the manufacturers claim for the Great Western. The wood in the Great Western spreader is the best quality of good, solid, well-seasoned oak. There is no wood so well adapted to the purpose and none which has held its own through the whole era of implement manufacture. During recent years, however, the supply of oak has been decreasing so rapidly that implement manufacturers have in some instances turned to other woods as a means of cheapening production. The Smith Manufacturing Company, who make the Great Western, believe that quality should stand above price in every instance. Readers should examine the advertisement carefully before making their purchases. Still more information may be learned on this question from the Great Western catalog which contains a great many facts not elsewhere obtainable. It is sent free to readers of The Homestead. Write for art catalog U-42, addressing the Smith Manufacturing Company, 158 E. Harrison St., Chicago, Ill. See page 46.

T. H. GOSSARD'S SOW SALE.

The sale of Duroc Jerseys of Mr. T. H. Gossard, at Ponca, Neb., on February 2d, brought out a good crowd and the entire offering averaged \$41.78. It was an outstanding good offering and Mr. Gossard put up an offering of Proud Chief gilts in this sale that we think was as good as we have ever seen sired by one boar. The offering deserved more money, but Mr. Gossard, being comparatively new to the outside breeders, it was not generally known that his offering was as good as it turned out to be. Colonel Luther cried the sale. Below is a list of buyers:

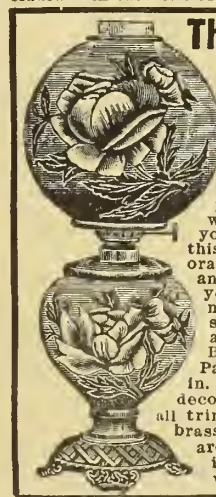
1. A. B. Francis, Ponca, Neb.	\$49
2. A. C. Sharon, Elk Point, S. Dak.	50
3. H. G. Sharon, Elk Point, S. Dak.	55
4. W. A. Verzani, Newcastle, Neb.	41
5. I. H. Graham & Son, Cherokee, Ia.	55
6. A. C. Sharon	57
7. A. B. Francis	49
8. H. G. Sharon	53
9. A. B. Francis	53
10. H. G. Sharon	50
11. Henderson & Son, Coleridge, Neb.	49
12. Frank Putman, Ponca, Neb.	46
13. Peter Burns, Ponca, Neb.	36
14. H. G. Sharon	55
15. A. C. Sharon	52
16. Nicholis Raseur, Ponca, Neb.	52
17. A. B. Francis	36
18. S. R. Spiker, Newcastle, Neb.	35
19. Will Conrad, Ponca, Neb.	30
20. I. H. Graham & Son, Cherokee, Iowa	41
21. W. A. Verzani	29
22. Ed O'Conner, Ponca, Neb.	22

FREE! To every Lady Reader this Beautiful and Durable 7-PIECE BED SET



Consists of 2 Blankets, 2 Bleached Sheets, 2 Bleached Pillow Cases and 1 Bed Spread—All Full Size Pieces

Here is an opportunity whereby every woman in the United States can get this useful, expensive, 7-piece Bed Set, Absolutely Free. This Bed Set consists of 2 Blankets, 2 Bleached Sheets, 2 Bleached Pillow Cases and 1 large, White Bed Spread—7 full size pieces in all. All we ask is, that you sell a few cans of our Perfection Baking Powder and the Bed Set is yours. You can realize how easily, and with what little effort you can do this, for a full size, cut glass pattern pitcher and 6 glasses are included with each can of Baking Powder, etc., in our offer No. 420. But this is not all. To every lady



This Parlor Lamp FREE

We are determined to push our Baking Powder to the front and to get you to help us, we will send with your first order this handsome Decorated Parlor Lamp and it will not cost you a penny. Remember we will send the Lamp in addition to the Bed Set. This Parlor Lamp is 17 in. high with 8 in. decorated globe and all trimmings polished brass. These Lamps are going fast and if you want one write quick.

who sends in her name and address right away we will give in addition, as a Special Premium, Absolutely Free, the handsomely designed Parlor Lamp described opposite, with first order. You simply can't realize what a big offer this is until you see these beautiful premiums.

No Money Necessary. You risk absolutely nothing, and ship on the Baking Powder and send your Premium with the Baking Powder, and also send the Glass Pitcher and Six Glasses all together, and then we give you time to deliver and collect before remitting to us.

While it is on your mind, cut out coupon, write your name and address on same, so you can get our big Special Premium; also free our Mammoth Catalog and Premium List.

Fill Out and Mail Coupon Today

HAGOOD MFG. CO.
367 N. Commercial St., St. Louis, Mo.
Gentlemen: Without cost to me, please send at once your Big Free Offer.
Name.....
Post Office.....
County..... State.....

23. Same	27
24. Henderson & Son	37
25. Peter Bearens, Ponca, Neb.	30
26. Nicholis Raseur	28
27. Chas. Crowfoot, Ponca, Neb.	37
28. F. R. Spiker, Newcastle, Neb.	35
29. S. R. Spiker	35
30. Chas. Crowfoot	31
31. S. R. Spiker	34
32. Peter Bearens	40
33. S. R. Spiker	29
34. W. A. Verzani	38
35. Nicholis Raseur	31
36. Same	34
37. Chas. Crowfoot	39
38. Nicholis Raseur	36

VOICES THAT ARE GONE.

The Victor Talking Machine and its wonders in the preservation of human voices and tones lead to some curiosity as to the voices of great men of the past. How many of us today would take intense pleasure in hearing the voice of Washington, Patrick Henry, Franklin, Webster, Clay, Lincoln or Grant! What impressions those voices would make! Yet they have been silenced in death. Today, however, the Victor Talking Machine makes it possible that the voices and the sayings of our great men may be carried on to posterity. This is a privilege which the next generation will appreciate to a greater extent than we do. Among the voices of leading men which the Victor has already recorded are those of President Taft, William Jennings Bryan, Rear Admiral Robley D. Evans. In addition, the voices of the great singers are to be preserved for all time. But the greatest point in favor of the Victor is as a means of home entertainment. On this point we refer our readers to the advertisement of the Victor Talking Machine Company, 25th & Cooper Sts., Camden, N. J., which appears on page 7. Catalogs and other information may be had by filling out the coupon to be found in the advertisement and forward it to the address named.

REPORT OF C. A. DE VAUL'S DUROC SALE.

Mr. C. A. De Vault, of Inwood, Iowa, held his annual Duroc Jersey bred sow sale on his farm on January 27th, disposing of thirty-two head for \$1,410, or an average of \$44.10 per head, which was considered by all a very good sale under the circumstances. His offering consisted principally of spring gilts and, as part of the offering was of late breeding, it reduced the average quite materially. There were no sensational prices paid at this sale. Mr. C. D. Reynolds, of Doon, Iowa, got No. 13, she being a daughter of Robert J., and her dam, Gold Dust, at \$70. This was an extra good gilt and should have brought a little more money. The attendance was very good, both of breeders and home support, and Mr. De Vault

Sell Your Fur In The East

Send your fur where it will bring the most money. The East is the raw fur center. The East is the heart of the raw fur trade, pumping its life blood of dollars all over the world where furs are caught. This paper is full of advertisements from Western fur buyers. But they ALL sell to Eastern dealers. It makes no difference what they say—we repeat it, THEY ALL SELL THEIR FUR TO EASTERN DEALERS. We are here in the East. We are in a small town; we have small expenses. We are within a few miles of New York City and the border of Canada—the world's greatest fur markets. Your bank in your own town will tell you we are reliable. Send today—now—for our big free trappers' guide, catalog and fur report. This is different from anything you ever saw. And it costs you nothing but the price of a two-cent stamp to put on your letter.

Corry Hide & Fur Co., P. O. Box No. 6827 Corry, Penn.

If You Have Your HIDES TANNED

by our OIL TAN PROCESS you will have a hide that will be just as valuable as buffalo robes. It will wear longer, will be softer and lighter in weight and will make the most beautiful

FUR COATS AND ROBES

Your hides are too valuable to send to tanners you know nothing about. Don't let beginners experiment on them. We have been in business for twenty years. Write us for catalog and shipping tags. Address

IOWA TANNING CO. DES MOINES, IA.

was very well satisfied. Owing to the lateness of the train The Homestead field man did not arrive in time to get a full report of the sale, so that he could not tabulate them. Mr. De Vault wishes to thank one and all for their patronage and liberal bidding and hopes to meet them all again next year.

Dates Claimed for Live Stock Sales.

ABERDEEN ANGUS CATTLE.

Mar. 10, M. H. Donohoe, Holbrook, Iowa.
 Mar. 11, Wm. Cash, Williamsburg, Iowa.
 Mar. 16, Breeders' sale, M. A. Martin, Mgr., Wall Lake, Iowa.
 Mar. 17, W. C. Metavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 7, James Williams, Marcus, Iowa.
 June 8, Stanley Pierce and John Evans, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Palmyra, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 20, C. M. Russell, Carroll, Iowa.

SHORT-HORN CATTLE.

Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Mar. 15, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Mar. 16, O. O. Smith, Des Moines, Iowa.
 April 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
 Apr. 28, Henry H. Kuper, Humboldt, Neb.
 May 20, A. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 21, Jesse Binford & Sons, Liscomb, Ia.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.

HEREFORD CATTLE.

Mar. 1, 2, 3, C. A. Stannard, Emporia, Kan.
 Mar. 8-9, Funkhouser, Gabbert and others, R. T. Thornton, Kansas City, Mo., Mgr.
 Mar. 15, Brookmont Farm, Odesholt, Iowa.
 Mar. 16, C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 April 16, James E. Logan, Kansas City, Mo.

DUROC JERSEY SWINE.

Feb. 21, W. C. Cameron, Herman, Neb.
 Feb. 22, R. L. Wilson, Chester, Neb.
 Feb. 23, G. Van Patten, Sutton, Neb.
 Feb. 24, Geo. Briggs & Son, Clay Center, Neb.
 Feb. 25, Con McCarthy, Henderson, Neb.
 Feb. 25, A. L. Mossman, Radcliffe, Iowa.
 Mar. 9, Lien Bros., Platt, S. D.

POLAND CHINA SWINE.

Feb. 24, Ruehel Bros., Marathon, Iowa.
 Feb. 24, Dispersion sale, Mastodon Poland Chinas, W. W. Wheeler, Harlan, Iowa.
 Feb. 25, M. P. Hancher, Rolfe, Iowa.
 Feb. 25, J. M. Stewart & Sons, Ainsworth, Ia.
 Feb. 26, J. W. Pfander & Sons, Clarinda, Ia.

CHESTER WHITE SWINE.

Feb. 24, J. H. Stewart, Dickena, Iowa.

JACKS AND JENNETS.

Feb. 28, J. W. Finley, Higginsville, Mo.
 Mar. 1 and 2, L. M. Monsees & Sons, Smithton, Mo.
 Mar. 3, Petty Bros., Sedalia, Mo.
 Mar. 15, G. C. Roan, La Plata, Mo.

PERCHERONS.

Mar. 10, P. W. Moir, Mitchell, S. D.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 Fred S. Larkin, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address 2525 Erskine St., Omaha, Neb.
 A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
 E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Poland China brood sows and gilts are advertised for sale by Mr. F. W. McIntyre, Red Oak, Iowa, on page 51.

Mr. George T. Knutson, of Alden, Iowa, is offering his Hereford bull, Duke Junior 326537 for sale. The advertisement appears on page 51 of this issue.

Mr. Mike Sharp, of Coal Valley, Ill., has about a half dozen choice Hampshire sows left for sale that are bred for March and April farrow. These sows should go soon at the prices being asked for them. See page 61.

Messrs. Williams Bros., of Villisca, Iowa, are offering some great Poland China brood sows and gilts at private sale on page 61. The boys are not making a sale this year and are disposing of their entire sow crop at private treaty.

Mr. D. M. Nortou, breeder of Shropshire sheep, Sanborn, Iowa, writes under date of January 29th: "I have sold all my sheep, so please stop the advertisement. It keeps me busy answering inquiries. I have never seen the demand so great before. I will restock with the best I can find, so will be in shape to supply old customers with ewes and rams not related to those they have already purchased from me."

Mr. M. P. Hancher, of Rolfe, Iowa, has an outstanding young Scotch bull for sale. This young bull was one year old the 29th day of last December, and he is the son of Carter's Choice Goods by old Choice Goods. His dam was Imp. Golden Wreath 12th, she by Imp. Mystic Archer, and traces to Golden Wreath by Champion of England. He is of the Brawith Bud family. He is red in color, low down, thick in flesh, with good head and horns, extra good chest, good heart girth, good over the loins, none better in the flank and extra good in the twist, and in fact he is what you might call an outstanding young bull. Buddie Goods, as this is his name, is a good enough individually and bred well

enough to head any man's herd in the land. This bull can be bought right if taken soon. For prices and descriptions write Mr. M. P. Hancher, Rolfe, Iowa, and mention The Homestead. See page 52 for advertisement.

Messrs. Hamilton Bros., of Auxvasse, Mo., announce on page 51 that on February 15th, next, they will make a public sale to include twenty head of jacks, eleven stallions and fifty mules. Additional information concerning this sale may be obtained from catalog, for which address as above.

Breeders of Poland China hogs who are looking for show-yard material which show size and at the same time those finer points which go to make up the show hog of the present day, should not fail to be in attendance at the Keasy-Campbell sale to be held at Wiota, Iowa, on February 17th, as advertised on page 52.

Mr. M. A. Kraschel, of Macon, Ill., is offering for sale King's Col., a yearling boar sired by the noted sire, King of Cols., and out of a High Chief, by Ohio Chief, dam. This boar is sold for no fault, but Mr. Kraschel has recently bought Helen's Chief and has too many herd boars on hand. He is priced worth the money to a quick buyer. Anyone in need of a good King of Cols. boar should write Mr. Kraschel at once. See page 62. When writing please mention The Homestead.

On February 15, 1910, Mr. H. A. Main will hold a sale of Guernsey cattle and Poland China swine upon the Royal Farm at Fort Atkinson, Wis. He will sell four registered cows, two pure-bred hells and sixty-three grade cows and heifers. One of the bulls to be sold will be Joiner 10802, bred by Ex-Governor Hoard, and was sired by Radium 9193 out of the cow, Cremona. Joiner is a direct descendant of Benjamin 1931, one of the great bulls which have been used in the herd of Mr. Charles L. Hill, of Rosendale, Wis. The foundation stock for excellent dairy herds can be secured at this sale. See page 51 for his advertisement.

Mr. D. W. Howie, Jr., manager of Sunny Peak Farm, at Elm Grove, Wis., has five Jersey bulls which he is offering for sale at this time at prices so low that they should be snapped up at once. There is no question but what he is offering splendid bargains. All of these young bulls were sired by Pedro's Golden Fern and were out of the following dams: Daisy Pilotta 2d, Honey Pilotta, Pilotta's Ida, Violetta Victoria and Quaker Ruth. The last-named cow was the first-prize winner at the Wisconsin State Fair in 1909. One of the bulls listed was first in the state class and second in the open competition at the same state fair. He headed the first-prize young herd and was a member of the second-prize get of sire at the last National Dairy Show. See advertisement on page 52 or write Mr. Howie at once.

A bunch of two-year-old jacks that go in the sale to be held by Mr. W. J. Finley, of



Higginsville, Mo., Monday, February 28th. See advertisement on page 56.

Mr. Geo. S. Prine, of Oskaloosa, Iowa, one of the oldest breeders of Berkshire hogs in the state of Iowa, whose advertisement appears on page 61, writes under recent date as follows: "I have a very fine bunch of young boars that are just coming into an age for service and that promise to develop into breeders that are not to be equaled. They show strong, heavy bone, have evidence of vigorous constitution, and are otherwise very desirable. They have been grown and wintered in a strong, healthy condition and descend from matured ancestry. They are the kind that produce results. Prices on these boars will be quoted so low that buyers cannot fail to appreciate them. I am today sending two to southern Illinois, last week I shipped a pair to western California. These pigs belong to the Nora family, a prolific, easy-feeding tribe that have been bred on the Prine farm for a third of a century. They are noted as quiet mothers, belonging to the type that pleases." The special prices which will be quoted may be learned by addressing request to Mr. George Prine, Oskaloosa, Iowa.

This issue contains the advertisement of Mr. L. G. Legler, of Juda, Wis., the owner of one of the largest Holstein herds in the middle West. This breeder has used some very excellent bred bulls in his herd. Among the number are sons of Homestead Junior De Kol, the sire of Grace Payne 2d's Homestead and also Johanna Rue Sarsaestic Lad. Of the latter bull Messrs. Cleveland & Co., of Syracuse, N. Y., have the following to say: "In selecting a sire to head your herd or females to breed from, one of the most important points for consideration should be to get animals descending from well-known producing butter families and of good individuality. In the breeding of this young sire will be found these qualities, as his sire won first prize at the World's Fair held in St. Louis. On his dam's side will be found Paul De Kol, which was produced by a cross from De Kol 2d to Pauline Paul. This sire's dam's sire is the combination made by crossing with the Mutual Friend family. His dam was produced by crossing these lines with the Johanna family, which has made one of the best strains of the breed. There are only six cows of the breed with records over twenty pounds that have produced three twenty-pound daughters, and in this young sire's pedigree will be found two of them, Mutual Friend 2d and Johanna Rue. You certainly cannot make any mistake in buying the offspring of this young sire. This sire at five years weighs 2,500 pounds in breeding condition and is conceded by expert judges

to be one of the best individuals of the breed. His goodness is demonstrated by his offspring. He is the second sire of the breed to have the first daughter officially tested to make twenty pounds of butter or better at two years of age. He now has six daughters that average eighteen pounds at two years of age, an average of sixty pounds of milk per day." See page 51.

The Sunny Peak Jersey herd, owned by Mrs. Ada F. Howie, of Elm Grove, Wis., is a strictly business herd. This fact is abundantly demonstrated in the record of its ten best cows for the year 1909. Following is a statement of their performances: Ida Pilotta, 9,390 pounds; Honey Pilotta, 8,565 pounds; Quaker Ruth, 8,148 pounds; Pilotta's Honey Bee, 8,030 pounds; Pilotta's Ida, 7,862 pounds; Della Martin 3d, 7,439 pounds; Dame Becky, 7,249 pounds; Doreas Summer, 7,183 pounds; Laura Bisson, 7,505 pounds; Vitus Ruby, 7,074 pounds.

A GOOD CENTRAL MISSOURI FARM BARGAIN.

Mr. C. W. Daugherty, of Sedalia, Mo., offers for sale one of the best stock and grain farms in central Missouri. This farm is located near Sedalia, the improvements are good and it can be purchased worth the money.

POLAND CHINA BRED SOWS FOR SALE.

On page 51 of this week's Homestead will be found the advertisement of Mr. Herman Baltz, of Fremont, Neb., who is offering a choice lot of Poland China sows and gilts for sale at reasonable prices. Pedigrees furnished with sows at time of sale. Write him about these sows at once and mention The Homestead.

FORD STOCK FARM.

The Ford Stock Farm, at Parker, S. D., advertised on page 55 of this issue, have at the present time on hand Percheron and Belgian stallions and mares of a sort which will compare favorably with those to be found in the barns of any importer or breeder. They are sold at prices worth the money and are guaranteed to be exactly as represented. Buyers are invited to visit Parker and make a personal investigation of the merits of the horses offered. For prices and further particulars write to Messrs. Ford & Harrington, Parker, S. D.

COL. PLINY NICHOLS, AUCTIONEER.

On page 51 of this issue appears the announcement of Col. Pliny Nichols, of West Liberty, Iowa, breeder of Short-horn cattle and Poland China swine, and one of Iowa's leading live stock auctioneers. Colonel Nichols has been associated with the breeding of pure-bred live stock for many years and has complete knowledge concerning all breeds. His experience as an auctioneer has enabled him to be of great service to his patrons either on the block or in the ring, and he has a few dates at this time which he can give to those intending to hold public sales. Write Colonel Nichols as per the announcement for dates and terms (which are reasonable), kindly mentioning The Homestead.

BRIGHTON FARM DUROCS.

Messrs. Huffman & Chapman have a few more of those aged sows and fall gilts and spring gilts which are the descendants of Pericles, Achiever and Tolstoi, and bred for March and April farrow to Walter Model, he by Golden Model 2d, and General Moon, a grandson of Crimson Wonder I Am. Mr. H. H. Huffman will be remembered as being one of the principal Duroc Jersey hog breeders of the Northwest for a great many years, and has been considered one of the principal fountain heads for good Duroc Jerseys for a number of years, and if you want to buy either aged sows, fall gilts or spring gilts, you should get your orders in early, as they will not last long. See Messrs. Huffman & Chapman's advertisement on page 62 and write them at once for prices and descriptions, mentioning The Homestead.

THE KNICKERBOCKER HORSES.

Messrs. E. H. Knickerbocker & Son, of Fairfax, Iowa, announce on page 54 that they are now ready to provide their customers with a lot of big, drafty, big-styled imported and home-bred Percheron and Belgian stallions and mares. The Knickerbocker barns are located adjacent to the depot of the C. & N. W. Ry. and not far from that of the Milwaukee. Fairfax is but a short distance west of Cedar Rapids and can be easily reached from almost any point. Messrs. Knickerbocker have been engaged in the importation and breeding of horses for a great many years and while they do not make much of a noise about it they have been giving their customers full value in a splendid lot of horses that have gone out and made other customers for them. For additional particulars and prices write to Messrs. E. H. Knickerbocker & Son, Fairfax, Iowa.

M'CARTHY'S GREAT DUROC SALE.

Mr. Con McCarthy, of Henderson, Neb., sells on February 25th, the day following Messrs. Briggs, and is putting up thirty-five head of very strong sows and gilts. In fact no offering of the circuit is any stronger. There will be three aged sows, ten yearlings and twenty-two gilts and these are big, too. In the aged sows Sunshine by Imp. IL, and out of Garnet, than whom there is no greater brood sow in the state, is a decided attraction, being very smooth and showy and a very choice brood sow. Garnet B. is a sister in blood and a litter sister to Garnett's Pride, the famous first-prize gilt of 1908, and they are both bred to the great breeding boar, Lincoln Wonder. Royalty, by Ohio Chief and out of Royal Lass III, is a big, mellow, broody sow of good character and is offered as an attraction. Lot 4 is a daughter of Kant Be Beat and May Belle by Morrison's Belle Top, and a decidedly good one. Lots 5 and 6 are sisters—very good, too. No. 7 is by Kant's Echo and out of Rose Davis II, by Tom Davis, an extra good sow. Her sisters, Lots 8 and 9, are also very good, the first two perhaps being the better. A very good sow is sired by Ohio Chief I Am and out of a Crimson Wonder dam. In the gilts Nos. 15, 16 and 17 show up strong, especially the first two. They are by Lincoln Wonder and out of Belle's Improver, a litter sister to McK's Improver. They are also litter sisters to King Wonder, a promising young show prospect. Beat My Dad, a great son of Kant Be Beat and surely

a great breeding boar, is the sire of some of the broodiest gilts in the offering. The offering is strong throughout and have been bred to Lincoln Wonder, McK's Improver, King Wonder and Beat My Dad. The catalog gives full details and may be had upon application, mentioning The Homestead. Bids should be sent to Mr. Fred S. Larkin, of The Homestead. See page 50.

GOOD POLAND CHINA BRED GILTS FOR SALE.

Mr. John Schmieder, of Remsen, Iowa, has a few more of those good Poland China bred gilts for March and April farrow for sale. They are of the large and prolific kind, and are the daughters of Long Dude 116963 and King Corrector 147169, and are bred to Big Expansion 154731. Big Expansion weighed 590 pounds at fourteen months old, and is one of the best big hogs that the writer knows of, and some of them are safe in pig to King Corrector 147169. No man in Iowa raised better Poland China hogs than Mr. John Schmieder, and these gilts are right and bred right and anyone wishing good Poland China bred gilts of the large and prolific strain, Mr. Schmieder can supply your wants, as he is selling these gilts at private treaty and not making a sale. He has only a few left, and if you want one you must write soon. Get his prices and description, and when doing so please mention The Homestead. See page 61 for advertisement.

LON HODSON'S DUROC SALE.

The last Duroc sale of the season in Indiana will be that of Mr. Lon Hodson, of New Castle, Ind., on February 16th. At that time Mr. Hodson will offer sixty-five head of bred sows and gilts, the pick of his herd of 200 head. Mr. Hodson has at the head of his herd Deatur Boy, the sire of Prince Wonder. About twenty sows will be bred to this noted boar. Three sows will be bred to the 1909 Ohio State Fair champion, King of Cols. Ideal. The balance will be bred to Kline's Col. Ideal, Golden Rule Col. and Commodore Snelcial. About fifteen of the sows and gilts will be sired by Deatur Boy, one by Ohio Chief, one by King of Cols. and the balance by some of the most noted boars of the breed. About thirty of the sows are yearlings, fifteen spring gilts and the balance two and three-year-old sows. The sale will be held at the farm near New Castle. Bids sent to Mr. Carlos C. Palmer, in care of Mr. Hodson, will be properly handled. See page 53 and send for a catalog at once.

SHORT-HORN BULLS FOR SALE.

Mr. Lee N. Prentiss, of Vermilion, S. D., is offering twenty head of Short-horn bulls of serviceable age, the best that he has ever raised on his great Short-horn breeding farm at Vermilion, S. D. His herd comprises something between 200 and 300 head, and among them are some of the best breeding matrons in the West. These young bulls are mostly the sons of such good bulls as Lavender and Hugo, he by Minting, he by that grand old show bull, Banner Bearer. They are mostly red in color and most of these bulls are good enough to head any good Short-horn herd in the land, and parties wishing a good Scotch bull should avail themselves of this opportunity at once, as he will sell these bulls at very reasonable prices, if taken soon, for he is anxious to move these young bulls in order to make room for cows coming in this spring. Write Mr. Lee N. Prentiss for prices and descriptions, and when doing so mention The Homestead. See advertisement on page 53.

LAST CALL FOR WHEELER'S "MASTODON" DISPERSION SALE.

On February 24th, at Harlan, Iowa, Mr. W. W. Wheeler will close out his entire herd of Mastodon Poland Chinas, including all of his noted brood sows and herd boars, and it promises to be another event in Poland China affairs that the breeders should not pass up. Mr. Wheeler has sold his farm and this becomes necessary at this time. The sows that he will sell in this sale are sows that he had personally selected to stay in his herd. These were sired from the leading big-type herds in the West and they were the sows that helped make the Wheeler herd famous. The herd boars, A Wonder 107353, the largest boar in the West; Columbia Chief, King Mastodon and Mastodon Chief, all go in, and here is a collection of big-type boars that are hard to beat of their kind. The Wheeler herd has been founded on the big-bone, big-litter kind and all of his breeding runs to these strains. He has issued one of the interesting catalogs of the season and it should be in the hands of every lover of big-type Poland Chinas. Send for it at once and kindly mention The Homestead. Any bids sent to Mr. M. T. White, Homestead representative, will be properly cared for. See page 54.

DRALLE'S DISPERSION OF POLAND CHINAS.

Mr. Fred Dralle, of Struble, Iowa, one of the old and most ardent breeders of good Poland China hogs in the Northwest, has sold his farm and is moving to South Dakota. He is therefore compelled to disperse his herd, and February 18th has been chosen for the date of the sale. In his offering he will have eleven tried sows, ten fall yearlings and twenty-nine spring gilts. They are not the smallest; they are of the medium kind, and as for quality none are better. They are on the very best of feet, with medium bone, and every one as smooth as an apple. The aged sows are the daughters of L's Nemo Dnde, Empire Chief 2d, Chief Perfection 2d and Pilatus Chief 2d. The fall gilts are by Columbus Chief 2d, Pilatus Chief 2d. The spring gilts are the daughters of Calypso (Calypso is one of the good sons of Impudence), I Am the Dude, Pilatus Image, and they are bred to Big Chief, I Am the Dude and Calypso. This being the dispersion and the last sale of our old-time friend, Mr. Fred Dralle, to have a Poland China sale among us, we would ask the breeders, as well as the farmers, to turn out and help make his last sale a hummer, for you know what he has done for you in the past. He has attended nearly all of your sales and has been what you would call a "crackerjack" of a good buyer, always going the limit and buying the best, and he has never been a stumbling block in the road of the way of building up the Poland China breeding interests, but always raised good ones and bought good ones, and he is going

to sell you good ones in this sale. For his catalog address Mr. Fred Dralle, Struble, Iowa, and in doing so mention The Homestead. Col. J. A. Benson will be the auctioneer, with assistants. Sale will be held in a tent. Free accommodations to and from the Struble farm. See page 61.

SCOTCH COLLIES.

Mr. T. A. Stevenson, of Shannon City, Iowa, writes as follows: "The Homestead does the business. Have sold on an average for the last ten days one a day, shipped five fine Collies last Tuesday, one fine male pup went to Oklahoma. Please inform Homestead readers that I have sold out on male pups for the present. I have some very nice tri-colored females for quick sales. They were whelped December 18, 1909, by Charity Clunker by Prince Quaker by the great Wishow Clunker. Puppies are out of Fannie Nannie 134451 by Teddy Max 131820 by Sealem Premier by Parbold Premier by Moreland Piccolo by Ch. Parbold Piccolo. Dam of Fannie Nannie is Lady Emerald by Imp. Emerald Galopin and out of Highfield Bess by Imp. Thorndale Hope by Parkhill Hope by Ch. Balgreggie Hope." If you want a fine black and white female of the very best breeding write him by next mail. Do not delay. Collies as well bred as those described go like "hot cakes" on a cold morning. See advertisement on page 29.

HANCHER'S POLAND CHINA SALE.

Mr. M. P. Hancher, of Rolfe, Iowa, will sell fifty head of Poland China hogs on the 25th of February. The offering will include six tried brood sows, three fall gilts and forty-one spring gilts. The aged sows are daughters of Chief Tecumseh 4th, Long Meter and Crow's Model. The fall gilts are sired by Big Bone and Our Dude. The spring gilts are by Our Dude, Columbia Chief 3d, Smooth Wonder 2d, Big Bone and Hadley's Expansion. They will have been bred to Chief Price 2d, Columbia Chief 3d and Big Wonder. A representative of The Homestead who looked over the herd a short time since considered them the largest and smoothest string of spring gilts that he had the privilege of inspecting this winter. They are very growthy, as well, and of good quality, heavy bone and extra strong fat. Mr. Hancher believes that the offering is the best which he has ever put before the public. The blood lines are a little different perhaps from those of other sale consignments, but they are all of the strictly big kind, and good enough for anybody. Mr. Hancher's advertisement will be found on page 52 of this issue. Remember that the sale is one of a series, which includes that of Mr. William Carey, of Fondra, February 23d, and Messrs. Ruehel Bros., of Marathon, Iowa, on the 24th. For catalogs write to Mr. M. P. Hancher, Rolfe, Iowa.

M'INTYRE'S POLAND CHINAS.

The new advertisement of Mr. F. W. McIntyre's Poland Chinas will be found on page 51. That gentleman is now offering for sale fifty high-boned, large-type bred sows. In a letter ordering this change in his advertisement Mr. McIntyre writes: "My sows are all doing well and I believe that the fifty I now offer for sale are hard to equal. They are certain to be money makers for those who buy them. They are choice and all right in every way and are cheap, for the kind, at the prices quoted. They are the get of Hadley, P. W. Giant and Jumbo. They will have been bred to Hadley and Victor. Victor, it will be remembered, was a son of Big Victor, winner of second in the aged classes at the Nebraska State Fair last fall. Victor comes from one of the most popular families of the big type and is a very choice pig. I have shipped stock to Texas, Oklahoma, Missouri, Nebraska, South Dakota, Illinois and Iowa during the past ten days. During one week last fall I sold twenty-three head. I have sold eighty-five head so far this fall and they went at an average of \$40 each. I have sold to every man who came to see the herd." The sows which are for sale are of the same high character as those that have gone out from the herd in previous years and cannot fail to please buyers. The prices quoted in the advertisement, it will be seen, are lower than those which prevailed at the public sales of the season. For additional particulars write to Mr. F. W. McIntyre, Red Oak, Iowa.

FRANK ELDER'S GREAT COL. DUROC SALE.

The catalog of the sale of Durocs to be held by Mr. Frank Elder, of Green, Kan., at Olay Center, Kan., on Thursday, February 17th, is chock full of such breeding as every lover of good Durocs points to with pride. All know that Mr. Elder purchased the Chapin herd, the two herd boars, King of Cols. II. and G. C.'s Col., and the great string of brood sows. They have done exceedingly well at Mr. Elder's hands, producing a great string of pigs and now Mr. Elder comes before the people with a public offering made up of an even divide of the herd. He has cataloged fifty head, four boars, some of the matured sows and a great string of spring gilts. As we have said before, Mr. Elder cannot use both of the Colonel boars, hence he is selling G. C.'s Col. The writer thinks him the equal of King of Cols. II. as a breeding boar and he will make a great herd header for some high-class herd. One sure thing, there are few breeding boars his equal and none with a richer pedigree. He is listed as Lot 1. Lot 2, Chapin's Queen, is his dam, a daughter of The Chief by Ohio Chief. Such great brood sows are rarely ever listed for sale. Lot 3, Red Princess by King to Be, is the dam of Pearl's Golden Rule, one of the best breeding boars ever owned in Kansas. Mr. Chapin considered her about his greatest brood sow, and he was not far off. Lot 4, Miss Burr Oak 4th, is one of the best daughters of old Ohio Chief, a great brood sow and one to tie to. Lots 5 and 6 are daughters of Red Princess, Lot 5 being a fall two-year-old by King of Cols. II. and Lot 6 a coming three-year-old by Golden Rule, is a full sister to Pearl's Golden Rule. Model Chief Again, by many considered the best boar Mr. Grant Chapin ever owned, is represented with six daughters, listed as Lots 7, 10, 11, 12, 13 and 15. These are great sows and are bred to G. C.'s Col. A great string of stuff by King of Cols. II. and G. C.'s Col. are listed. Most of the Col. sows are bred to Elder's Wonder, a phenomenally good son of King Wonder by Nebraska Wonder. King Wonder is now in the herd of

Messrs. Bardwell & Barnard, of McHenry, Ky. He showed in the southern and eastern fairs without being defeated and was grand champion at the Tennessee State Fair. P. E.'s Col. by G. C.'s Col. and out of Red Princess has been used on a limited number of gilts, as he is a hoar of great promise. Mr. Elder wants to send all who are interested a catalog and he extends to all a cordial invitation to be with him sale day. See page 62.

SPECIAL SHIRE PRICES.

Mr. George E. Brown, importer and breeder of Shire horses, at Aurora, Ill., makes a change in his advertisement on page 60 that ought to be looked after by buyers. Mr. Brown advises us that the present call is for more bone and better quality than ever before. Dealers at Chicago and elsewhere say that they can get plenty of fat ones on small round bone, but they are short on those of heavy bone. Col. J. S. Cooper, the well-known buyer of Chicago and Omaha, says that range horses showing a strong impression of Shire blood sell quickly at top prices. A load of Shire grades was recently offered in Chicago and were snapped up at \$235 to take back to the country to feed. In Mr. Brown's advertisement it will be noted that for the next forty days he is offering some special low prices on fifty head of imported Shire stallions and mares. They will weigh from 1,800 to 2,050 pounds. They are from three to four years old, have the best of legs and feet and clean, strong, flat bone. When Mr. Brown makes these statements they cannot be questioned, because he is one of the older importers of Shire horses and his experience has led him to learn all the points which go to make the very best kind. He has animals just such as the farm buyers of this kind most want and are looking every-

time. Write for his catalog at once and kindly mention The Homestead. Read his advertisement on page 47.

BROOKMONT OPPORTUNITIES.

The advertisement of the Brookmont Farm which occupies a prominent place on page 51

Highland Park College

DES MOINES, IOWA.

LAST HALF OF THE COLLEGE YEAR OPENS FEBRUARY 22, 1910.

THE last half of the college year at Highland Park College opens February 22d. There are two full quarters of twelve weeks each yet this college year. New students may enter any department of the college at this time just as well as at the beginning of the college year. Beginning and advanced classes will be organized in all departments. Special classes will be provided for students of any degree of advancement. If interested in Preparatory, Normal, Primary, College, Engineering, Law, Pharmacy, Music, Oratory, Commercial, Shorthand, Pen Art, Telegraph, Automobile or Trade School work, write for special information in the department in which you are interested. Address

O. H. Longwell, President, Highland Park College, Des Moines, Iowa.

NEXT WEEK'S SALE PROGRAM

Monday, February 14	Duroc Jerseys, E. Z. Russell, Blair, Neb. Poland Chinas, J. H. Hitch, Geneva, Neb.
Tuesday, February 15	Berkshires, W. R. Holt, Falls City, Neb. Duroc Jerseys, M. S. Moats, Missouri Valley, Iowa. Poland Chinas, O. N. Remington, Tekamah, Neb. Polled Durhams, J. J. Holland, Oxford, Iowa.
Wednesday, February 16	Duroc Jerseys, Lon Hodson, Newcastle, Ind. Duroc Jerseys, C. W. Huff, Mondamin, Iowa.
Thursday, February 17	Duroc Jerseys, Frank Elder, Clay Center, Kan. Duroc Jerseys, John R. Tupper, Woodbine, Iowa. Percherons, Jas. Loonan and T. F. Glenny, Waterloo, Iowa. Poland Chinas, A. R. Campbell and E. D. Keasy, Wiota, Iowa. Short-horns, G. H. Burge, Mt. Vernon, Iowa.
Friday, February 18	Duroc Jerseys, W. L. Hull, Logan, Iowa. Poland Chinas, Fred Dralle, Struble, Iowa.
Saturday, February 19	Duroc Jerseys, E. B. Ryan, Neola, Iowa. Holstein-Friesians, Gay's Stock and Dairy Farm, Madison, Wis.

where for. For further particulars concerning these horses write Mr. George E. Brown, Aurora, Ill.

O. R. STEVENSON'S DUROC JERSEY BROOD SOW SALE.

We desire to call attention of readers of The Homestead to the Duroc Jersey brood sow sale of Mr. O. R. Stevenson, of Quimby, Iowa, on February 22d, because he has an offering that both the breeders and the farmers can use. He is selling twelve head of yearling and matured brood sows and twenty-five head of spring gilts. No breeder in the state is selling an offering that is any better bred than the offering that Mr. Stevenson is selling at this time. He has drawn upon the very best herds in the West for his foundation stock, and when he bought anything it was good. You can therefore depend upon it that he will offer some good sows in this sale. They are sired by such noted boars as Advance, Ohio Chief, Junior Jim, Crimson Wonder Jr., Pericles, Improver King, Tip Top Notcher Lad, Sensation's Best, King West, Alpine Achiever and Mackey's King. Among the good brood sows that he is selling is a daughter of old Advance that has been one of the good sows in his herd. A daughter of Ohio Chief also goes in and she is a good sow, but she is not loaded with fat. Junior Zoe is a daughter of old Junior Jim. She is a very lengthy brood sow and a good breeder. Crimson Hilda is a daughter of Crimson Wonder Jr. that is full of quality. Keepsake is a daughter of old Pericles and she is a good all-round sow. Crimson Lady is a daughter of Improver King and she is one of the lengthiest brood sows in the offering. Battle Creek Anna is a daughter of Tip Top Notcher Lad and she is a good brood sow and one that will earn her way in any herd. These are but a few of the good sows that Mr. Stevenson is offering. There will be about twenty-five head of spring gilts that are sired by the splendid breeding boar, Crimson Wonder Jr., Alpine Achiever and Iowa King M. Mr. Stevenson is selling these sows in nice breeding condition, but he has not endeavored to load them with fat, believing that they will do the buyer more good when he gets them. The sows that he will sell in this sale will be bred to Crimson Wonder Jr., Alpine Achiever, Budweiser Jr., Model C of 7th and Dreadnaught Jr. It will be one of the best places to buy that we know of this season and everything that a man buys in this sale will be sure to do well in the other man's hands. Mr. Stevenson will also sell a few very choice young Aberdeen Angus bulls in this same sale and the man who wants to buy an Angus bull will have an opportunity to get some good ones at this

is one which should receive attention of farmers who realize the need of betterment in their cattle stock. There is no source from which the same quality and lines of breeding may be procured at prices as reasonable as those offered at Brookmont. The reason why the excellence of blood cannot be obtained in equal quantities elsewhere is due to the fact that no other western herd has an equal number of animals of the breed and no other breeder anywhere has expended the money necessary to get the best blood. It is only a few years since Brookmont welcomed to its grounds an importation of more than 300 head of Herefords direct from Herefordshire, England, the fountain head of all that is good in the breed. After this came that great imported herd bull, March On, whose stamp has been placed upon the prize winners of all the greatest American cattle shows. Other herd bulls of strains scarcely less important have occupied prominent places at Brookmont. As a result the buyers will find placed before them the best the world produces. Brookmont is open to inspection of buyers at all times. In fact, farmers are welcomed not only for the purpose of inspecting the herd, but also to make observations as to the farm and its manner of conduct. Any additional information may be had by writing Mr. A. E. Cook, Odebolt, Iowa.

LAST CALL FOR REMINGTON'S POLAND CHINA SALE.

One of the sales that always attracts attention of Poland China men in the West is that of our old friend, Mr. O. N. Remington, of Tekamah, Neb., which will be held on Tuesday, February 15th, when he will offer forty head of the very best Poland China sows. Included in his sale will be daughters of the great Mogul, Chief Price II., Long King, Tecumseh Ideal, Chief of All, Chief Price and other well-known boars. These are bred to Big Hadley's Model, a boar that he has used in his herd with much success; also to Hadley's Model and Ideal Tecumseh. Among the attractions that he is offering is the great brood sow, Lady Wonder 6th, the 960-pound daughter of Chief Price, and the dam of several of the leading herd boars that are doing service at the head of leading herds throughout the West today. She is bred to Big Hadley's Model and she will be a great bargain to the man who buys her. This sow has always been a great breeder and her litter will be worth what any man has to pay for her. Mr. Remington is also selling four daughters of this great sow. There will be four daughters of old Tecumseh Ideal in this sale. This was one of the greatest sons of old Chief Tecumseh 3d and he stood at the head of the Remington herd as long

as he lived and helped make its reputation. The offering as a whole is one that we can recommend to Homestead readers and a more reliable breeder than Mr. O. N. Remington does not live. We have known him for the past fifteen years and we never knew of his having a dissatisfied customer. If everything is not just as he says it is you can ship it back and get your money. Write for his catalog and then go to his sale. Read his advertisement on page 61.

THE FUNKHOUSER, GABBERT AND OTHERS HEREFORD SALE.

On Tuesday and Wednesday, March 8th and 9th, the annual sale of Hereford cattle held by Messrs. Funkhouser, Gabbert and others, at Kansas City, Mo., under the management of Mr. R. T. Thornton, 1509 E. 15th St., Kansas City, Mo., will be held. For this event the following breeders have contributed: C. W. Armour, Kansas City, Mo.; S. L. Standish, Hume, Mo.; Benton Gabbert, Dearborn, Mo.; S. J. Gabbert, Dearborn, Mo.; C. N. Moore, Lee's Summit, Mo.; J. W. Leoux, Lake City, Mo.; W. A. Dallmeyer, Jefferson City, Mo.; R. T. Thornton, Kansas City, Mo.; Funkhouser Estate, Plattsburg, Mo.; R. H. Hazlett, Eldorado, Kan.; T. W. Carmichael, Odesa, Mo.; Makin Bros., Grand View, Mo.; Scott & March, Belton, Mo.; James A. Gibson, Odesa, Mo.; Egger Hereford Cattle Co., Appleton City, Mo. Each has contributed such animals as he is pleased to let go out as representatives of his herd and each gentleman is pledged to put in some of his best productions. For this event ninety bulls and thirty females are listed. It will be an opportunity unequalled to buy high-class young bulls, cows and heifers. The breeder wanting a young herd bull, the ranchman and the farmer will find this a good place to buy. The breeding of the cattle in this sale is such that the buyer can find any desired strain. In former sales the best breeders have found these sales a good place to buy high-class herd bulls and the coming sale will be no exception. Now is the best time to buy pure-bred cattle, as they are selling far below their value and higher prices are bound to prevail at no distant date. This is the fourth annual sale made by these gentlemen and each sale has proven that buyers could buy here to as good advantage as any place in the world. Mr. R. T. Thornton, who manages the sale for these gentlemen, will gladly mail a catalog to all who make inquiry for same. See page 48 for the advertisement and Mr. Thornton's address and when writing him kindly mention this paper.

RUEBEL BROS.' BIG-TYPE POLAND CHINAS AT AUCTION.

On February 24th, Messrs. Ruebel Bros., of Marathon, Iowa, are going to hold their bred sow sale on their farm, one mile east of Marathon, at which time they will offer sixty head of the Peter Mouw-kind of bred sows and gilts. There will be ten aged sows, seven fall gilts and forty-three spring gilts. The aged sows are the daughters of Wonder 4th, Dry Creek Chief, Miller's Tecumseh, Miller's Chief Price, Chief Leader, Big Bone and Long Wonder. The fall gilts are by Orange Chief 2d and an Expansion-bred boar. The forty-three spring gilts are the daughters of Long Wonder, R.'s Longfellow, Chief Price 2d, Choice by Chief Leader, Miller's Happy Tecumseh, Long Prospect, Smooth Longfellow, Big Price and Victor Price. The entire offering are bred to R.'s Longfellow, Orange Chief 3d and Jumbo Price. This offering is practically the Peter Mouw and John Miller kind, and there will be more sows of their breeding sold in this sale than in any sale to be held in the Northwest this year, and more descendants of their breeding, and nearly the entire offering traces right back to old Chief Price. Among the choice gilts to be sold will be two by R.'s Longfellow. Their dam is Mollie B. Also five gilts all of one litter, sired by Long Wonder. Their dam was Mysie E. 3d. These gilts are litter mates to the boars that sold in their last fall sale for \$100 per head. There are also two more by Chief Price 2d that are outstanding good ones and safe to farrow from the service of Longfellow and Orange Chief. There are also three gilts, litter sisters, in the sale, bred by Mr. John Miller. They are the daughters of Choice, he by Chief Leader, and their dam is a granddaughter of Chief Price, and they are all safe to farrow from the service of Longfellow. In fact the entire offering is an extra good one. There is not a cull to be found in the entire offering. There will be free transportation to and from the farm, which is only one mile east of Marathon. Free hotel accommodations in Marathon, and if you want to buy good hogs of the largest type of the Poland China strain, attend this sale and you will make no mistake. Col. W. B. Duncan will be the auctioneer on the block, with able assistants. We wish to call your attention to Mr. M. P. Hancher's sale, at Rolfe, Iowa, the following

day, where you will find practically the same kind of hogs to buy, of the big type of Poland Chinas. Catalogs are now ready and may be had by writing to Ruel Bros., Marathion, Iowa, and mentioning The Homestead. See advertisement on page 52.

A GUARANTEED GRADER AND CLEANER.

Mr. S. N. Sorensen, president of the Fosston Mfg. Co., writes: "I am manufacturing the Fosston automatic combination grain cleaner and corn grader. In my own state, the Dakotas and throughout the Northwest, I believe it is the only separator and grader that careful, conservative, up-to-date business farmers want. So far, my output in these states alone has nearly taxed my factory capacity to its limit, but am able to supply every part of the country with the new wonderful 'Fosston Automatic.' In order to introduce this new machine quickly in new territory I have decided to make every reader of this paper a special personal proposition. If your subscribers will write me I will send my big, new, illustrated book with hints on profitable farming and which describes and illustrates in detail my new Fosston automatic combination grain cleaner and corn grader. This machine we will furnish with sixteen sieves and screens and the corn grader attachment at a special price that I know will interest any farmer. My patented device for cleaning, separating and grading all kinds of grain and seed and for selecting the most perfect kind of seed grain is fully explained in my new book. I will guarantee my Fosston automatic to do better work on any separating, cleaning or grading than common fanning mills and I will prove my guarantee by giving you thirty days' time to try it at my expense. I know your subscribers will be interested to learn about this new invention, and urge that they write me." See advertisement of the Fosston Mfg. Co., 450 Cleveland Ave., St. Paul, Minn., on page 42 of this paper.

THE KEASY-CAMPBELL SALE.

On the 17th of February, at Mr. E. D. Keasy's farm near Wiota, Iowa, there will be held a public sale of Poland China brood sows that is worthy the attention of the entire Poland China fraternity. Something like sixty head will be sold at this sale. Mr. Campbell's portion of them are all of good breeding, high individual excellence and in prime condition. Mr. Keasy's portion are in the same condition. Most of the yearlings and spring gilts from Mr. Keasy's offerings are daughters of Who 120135, whose portrait appeared in last week's issue of The Homestead. That he is a hog of unusual prepotency will be shown strongly in the litter from which Nos. 21 and 22 of the catalog are taken. One of these won second prize in litter at the Cass County Show and belonged to the same litter as the boar that won first in class and grand championship over all breeds. It goes without saying that they are good enough for anybody. Their dam was Avesta by T. N. Challenger and her second dam was a daughter of old Chief Perfection 2d. We might go to considerable length in a further description of these Who gilts. It will be enough, however, to say that they are strictly uniform in type and general character and that they have extraordinary size, as well as quality, finish and style. They are right and that they will be good breeders is best evidenced by their dams and grandams which may be seen on the farm on the day of sale. At the Cass County Fair last fall Mr. Keasy took first on boar over six months and under one year, second on aged sow, first, second and third on sow over six months and under one year, second on sow under six months, championship on boar of any age bred by exhibitor, first on four pigs get of same sire, first on herd, grand champion herd of ten head. Catalogs giving pedigrees in full, together with additional information, may be had by writing to Mr. E. D. Keasy, Wiota, Iowa, or Mr. A. R. Campbell, Wiota, Iowa. Mail bids should be sent to Mr. C. C. Carlin, of The Homestead. See page 52.

CAREY CAMERON'S GREAT OFFERING BROOD SOWS.

It is with pleasure that we again call attention of Homestead readers to the Duroc Jersey brood sow sale of Mr. Carey Cameron, at Herman, Neb., on February 21st. It has always been a pleasure for us to write about a man who does things, and that man is Mr. Carey Cameron. We never saw him fall when it came to putting up a good offering of brood sows. They are always right. Some men call this luck, but it is not so with Mr. Cameron. Strict adherence to details, a good breeder and a good feeder and a man who attends to his hogs and his cattle—and when the critical time comes they are always in shape for sale. In his forthcoming sale he is selling forty-one head—every one a spring gilt, and they will weigh all the way from 300 to 350 pounds. There will not be a cull in the bunch—they are bred in the very best blood known to the breed and they have been guided along through "pig-hood" by a master hand at the swill pail. These are sired by Gold Dust Wonder, Gold Dust Jim 3d, Russell's Choice and Critic's Model. The latter boar is a son of the noted Glendale Critic out of a Malcolm's Model dam, and he is one of the very best boars doing service at the head of any herd today in the state of Nebraska. This boar is bred to the sows not related to him in the sale and no man will make a mistake who buys a sow sired by or bred to this boar. Among the good things in the sale are two gilts by Critic's Model out of Jenny Lind that are just about as good things as he will offer. There are four choice gilts by Russell's Choice (a son of Crimson Wonder) and nut of Gold Dust Maid, the top sow in his last year's sale. These gilts will average over 300 pounds by sale day. There is another good litter by the same boar out of Critic's Anna, a daughter of Glendale Critic, that are April gilts and will average 300 pounds. These are very choice. We are just making mention of these few at this time to call attention to the high-class lot of gilts that he is putting up for sale at that time and next week we will give further details of the entire offering. We will say here, however, that a man can go to the Cameron sale and get a poor gilt in his offering. He will get five head of choice young Short-horns in this sale. These are all good

reds in color and are sired by Butterfly's Chief 232417, a Cruickshank Butterfly hull, and the man who wants to buy a good young Short-horn bull will find it in this sale. Write for Mr. Cameron's catalog and kindly mention The Homestead. Bids sent to our Mr. M. T. White, in care of Mr. Cameron, will be properly treated on sale day. See advertisement on page 49.

REDENIUS' IMPORTED PERCHERON STALLIONS IN WATERLOO SALE.

Mr. H. Redenius, of Dike, Iowa, the well-known importer and breeder of Percheron horses, has a splendid lot of imported Percheron stallions and mares in the public sale to be held in conjunction with Messrs. Looman and Glenn, at Waterloo, Iowa, on Thursday, February 17th. Look up the announcement on page 55 of this issue and plan to be present sale day.

CROSIER'S O. I. C. BARGAINS.

Mr. C. W. Crosier, of Juniata, Neb., has enjoyed a very good trade this fall and winter so far and is now offering some bred sows and gilts of most select breeding bred to his great herd boar, White Wonder, at very low prices to move them at once. Mr. Crosier is recognized as being a leader among the younger breeders and one whose stock invariably pleases the man who is a critical judge. See change of announcement on page 47 of this issue.

HART BROS.' NEW IMPORTATION.

Messrs. Hart Bros., of Osceola, Iowa, the well-known importers and breeders of purebred stallions and mares, will have a new importation at their barns on February 17th. This importation is now on board the Atlantic transport line steamer, Minnehaha, and should arrive in good shape. The importation consists of Percheron stallions and mares and they are of the same good sort which have made many good friends for Messrs. Hart Bros. in the past. Look up the announcement on page 55 of this issue and write for information, mentioning The Homestead.

HOLT'S PRIZE-WINNING BERKSHIRES AT AUCTION.

Mr. W. R. Holt, of Falls City, Neb., whose sale occurs on February 15th, is offering one of the most select drafts of Berkshires to be made in America this season. Mr. Holt is a showman and breeder of more than ordinary reputation. His breeding has won in nearly every great show of the present day. In his announcement on page 62 more details are given as to breeding and the winnings in leading shows. Those seeking choice Berkshire sows, yearlings or gilts with true breed character and bred in the purple, will either be present or plan to be represented. We are glad to recommend the offerings to readers of The Homestead, as a number of years of acquaintance with the Holt Berkshires have proven beyond any question of a doubt how they make good. Get the catalog now, which is free, and plan to attend the sale. The offering will please you and you will be royally entertained. If unable to attend bids will be handled fairly if sent to Mr. Fred S. Larkin, Homestead representative.

STEWART'S CHESTER WHITES AT AUCTION.

On February 24th, Mr. J. H. Stewart, of Dickens, Iowa, will hold his second annual bred sow sale of Chester Whites, at his farm which is six miles south of Dickens and one and one-half miles northeast of Gillett's Grove, both stations on C. M. & St. Paul Ry., where you will find free transportation to and from the farm. There will be forty head of the choicest kinds of gilts in the sale, mostly the daughters of White Oak 2d. White Oak 2d is one of the greatest sons of old White Oak that was the first-prize winner at the World's Fair in St. Louis; also his dam was a first-prize winner at the World's Fair at St. Louis, and good judges say that White Oak 2d is a facsimile of his illustrious sire, and consequently you cannot expect to find anything less than an extra good lot of gilts in this sale. These extra good gilts are bred to farrow in March and April and White Rock, he by Special, he by Joker. His dam was Peerless 2d, she by Combination, and Onward, he by Billy Sunday, he by Dude. His dam was Highland Lily, she by Young Press. Where can you beat the breeding? And in order to appreciate this good offering of Chester Whites you should attend the sale, and if you do we know you cannot help but buy one if you are an admirer of good Chester Whites. Send for catalog, which is now ready. Address Mr. J. H. Stewart, Dickens, Iowa. Col. W. R. Ritchie, of Marathon, Iowa, will be the auctioneer. Remember, teams will meet you at either Dickens or Gillett's Grove

The GREAT WESTERN Endless Apron Spreader

A Giant in Strength

Will Increase Your Crops \$4.00 to \$8.00 Per Acre



Endless Apron Is Always Ready

The GREAT WESTERN has an Endless Roller Apron exactly the same as an ordinary tread power. There is absolutely no argument on the superiority of the endless apron over the old-fashioned half apron with all its reverse gears, springs, catches, etc.

The Front Truck is set back nearly two feet under the load. The GREAT WESTERN is coupled up short like a wagon. We can do this because there is no half apron to run down under the axles and come in contact with the front wheels in short turns. See the point? Other spreaders cannot be made this way.

Wheels Track Our front wheels track with the rear wheels. Only two furrows are opened instead of four. The wheels track like a wagon because the front axles are the same length as the rear axles and the spreader turns in its own length. This means that the GREAT WESTERN will spread manure on corn ground, straddling two rows of corn.

Simple Ratchet Feed This insures continuous, steady movement of the apron. The double dog ratchet works like a two-cylinder engine. The driver changes the feed from the seat—without stopping the team—to spread thick or thin. No worm gears or bevel gears.

Double Oak Bolsters Above the big 16-inch malleable fifth wheel we place two heavy oak bolsters—each 3x5 inches. We guarantee that we can carry 1,000 pounds more over our front axle than any other machine will stand with its old style arched axles and cast fifth wheel.

Rigid Oak Frame The frame is secured by two steel truss rods running diagonally from all four corners, making it absolutely impossible for the frame to be warped or pulled out of true. The side boards are held in line with the main sills by ten oak stakes so there can be positively no spreading of frame or sides.

Our Pole (oak—not pine) is flexible, like a wagon—not fastened rigidly to the fifth wheel. Horses are hitched close up to the load—not away out in front like an old-fashioned dump cart.

Chain Drive The power is given to the beater by means of a chain.

This makes the drive flexible. There is a

Smith Manufacturing Company, 158 East Harrison Street, Chicago, Illinois
Minneapolis, Minn. Omaha, Neb. Kansas City, Mo. Columbus, Ohio Indianapolis, Ind.

GREAT WESTERN

WORLD'S BEST

on day of sale. Free lunch at noon. If you cannot attend this sale, bids may be sent to either the auctioneer or Mr. E. T. Parker, field man for The Homestead, and will receive careful attention. See page 49.

HITCH'S LAST CALL—BIG POLANDS.

The J. H. Hitch sale of big Poland Chinas at Geneva, Neb., on February 14th, is one that contains one of the strongest offerings of the season. There will be thirty-six head—three aged sows and thirty-three gilts, and a stronger lot in point of bone, feet, pasterns, quality and scale are seldom presented. Breedy heads—short, broad ones—are the rule. Hadley Chief is the chief stock boar and many of the gilts are by him and several others which are choice are sired by Cap. Mastodon and bred to the great herd boar. Blue Valley Major is a youngster of very promising character recently purchased

Harrow While You Plow

—and get 50 per cent better crops at half the cost. The Racine Rotary Harrow Attachment follows the furrow and cuts, packs and smooths the soil, making perfect seed-bed. Illustrated booklet—sent free—tells all facts about this big labor-saver. Write today.

RACINE ECONOMY SPRING CO.
336 Wisconsin Street RACINE, WIS.

by Mr. Hitch and a boar that would make good under most any conditions. He is a young boar, but any man who sees him will be desirous of owning a sow bred to him. On page 61 of last week's issue more details were given about breeding in a field note. The sale is strong, railroad connections are good, there are bound to be bargains. Come or be represented. Mr. Fred S. Larkin will represent The Homestead and will handle all bids fairly.

VAN PATTEN & SON'S PRIZE-WINNING DUROCS AT AUCTION.

On February 23d, Mr. Gilbert Van Patten & Son, of Sutton, Neb., will sell forty head of choice Durocs from his well-known herd of Golden Rod prize winners. Messrs. Van Patten have been showing hogs for some ten years and the records show that in that time they have won something like ten championships and more than 100 other prizes. From these it will be found upon close investigation that almost invariably the animals were bred on the home farm. Into this sale will go twenty-three yearlings and seventeen gilts, a lot of useful, well-grown sows that will make good anywhere. The yearlings are daughters of Medoc, Advancer III., Kant Be Beat, Tom Davis, Red Wonder, Echo Top and Advance. The gilts are by Echo Top King, Davis Chief, Belle's Chief I Am, Crimson Wonder 3d, Kant's Echo, Advancer 3d and Medoc. Two strong yearlings are by Medoc and out of the great brood sow, Fancy Alice. A couple of very choice sows are out of the dam of the young boar, Golden Rod King. These sows have for sire Advance, and are very choice animals. About as choice a sow as sells is a Tom Davis sow out of Lady Maid II, by Billie K. A couple of choice daughters of Medoc are out of Rose Improver by Imp. II. Three strong daughters of Kant Be Beat are out of three of the best sows on the farm, Red Molly by Billie K.'s Model,



This two-year-old champion Guernsey bull has not only proven himself to be a ring-side favorite, but has also proven a strong breeder, and the owners have every expectation of his becoming a great sire, backed by producing daughters. He is for sale. The price is low. Ask Messrs. Fox Bros., of Waukesha, Wis. See page 52.

ABERDEEN ANGUS CATTLE-SHROPSHIRE SHEEP-DUROC JERSEY HOGS

IN A DISPERSION SALE AT

Langdon, Iowa, Wednesday, February 23, 1910

Having leased my farm for a term of years it becomes necessary for me to dispose of my herds and flocks. I regret very much to do this as they have in the past been not only a pleasure and profit to me, but I believe also of advantage to those who have been my patrons. My cattle are representatives of those strains which have been most popular with the breed and which have been productive of the highest results. Everything must go, not only the live stock, but the entire farm equipment, as elsewhere announced. I will welcome to my farm on the date mentioned all those who are interested in pure-bred stock. I believe they will find the opportunity one of intense interest to them.

L. L. ATWOOD, LANGDON, IOWA

This is a final dispersion sale. It will be held at farm at Langdon, Iowa, as above announced. It will include forty-five registered Aberdeen Angus cattle. These belong to such noted families as Blackbird, Trojan Erica, Pride, Queen Mother and the like. The herd is too well known among breeders to require further comment. The foundation was laid from the best strains and highest individuality that money could buy or skill produce. From this herd was sent out the great Sunnyside Inez that won three championships in the United States in 1908 and also in Canada in 1909. Other good ones remain in the herd and will be sold at this sale. Twenty-five head of Shropshire sheep must go as also twenty Duroc Jersey bred sows. These animals are all in prime condition, just right for the purchaser and they are in every way desirable property. On the following day, February 24th, I will hold a general farm sale at which all other equipment of the farm will be disposed of. Catalogs of the pure-bred stock are now ready and may be had on application. Auctioneers, Silas Igo, Claire Binnie and C. Primeo.

Model Belle I, by Belle's Model and Daisy K. 3d by Billie K. There is among the top gilts a Davis Chief gilt out of Rose Improver by Imp. II. that will find many friends. A good, strong, well-bred gilt is by Belle's Chief I Am out of Proud Alice by Proud Advance. A Medoc gilt, however, shows up as an attraction, as well as a daughter of Echo Top King out of Model C. by Billie K. The offering throughout is fully up to the usual standard of former sales. The catalog is now ready and may be had upon application to Messrs. Van Patten, mentioning The Homestead. Bids should be sent to Mr. Fred S. Larkin, in their care. See announcement on page 50.

ABERDEEN ANGUS DISPERSION.
Mr. L. L. Atwood, of Langdon, Iowa, announces a public sale for Wednesday and Thursday, February 23d and 24th, at which time he will absolutely close out his entire herd of Aberdeen Angus cattle, together with Shropshire sheep and Duroc Jersey hogs. The consignment of cattle will include seven Trojan Ericas, seven Blackbirds, ten Prides and other good ones. The cattle are right in every way and will be money makers for the buyers as they have been for Mr. Atwood. The sheep offering includes twenty-five head of Shropshires. The Duroc Jerseys, of which there are twenty head, will be bred sows entirely. Additional information concerning this sale will be given in later issues of The Homestead. This dispersion is made because of the fact that Mr. Atwood has made a change in his business and will retire from farming for a term of years. Catalogs may be had by writing to Mr. L. L. Atwood, Langdon, Iowa. See advertisement on this page.

W. J. FINLEY'S COMING JACK AND JENNET SALE.

The sale of Mammoth-bred jacks and jennets to be held on Monday, February 28th, by Mr. W. J. Finley, of Higginsville, Mo., is by far the greatest offering Mr. Finley has ever made. He has bred many jacks; he has also gone to Kentucky and Tennessee and bought the best he could procure, shipped them to Higginsville and is now putting them up to sell for the high dollar. Forty-five head are listed for this sale—twenty-five jacks and twenty jennets. It is an offering worthy of the attention of the more discriminating buyers, as he has without question jacks that are among the tops of this year's offerings. All are blacks with mealy points. They are a great boned lot, have the good heads and ears and are big, stylish fellows. Mr. Finley has used Dr. Long, one of the greatest jacks in Missouri, on the jennets, and some great colts should result. The sale will be held in Higginsville, as the very best of railroad facilities are had here. Parties from the West or South can get to Higginsville morning of the sale and get away in the evening after the sale. If you have not received Mr. Finley's catalog send for it now. He wants you to have one and will be glad to mail it to you. See page 56 for his advertisement and when sending for catalog kindly mention this paper.

WAYSIDE SHORT-HORNS AT AUCTION.

The important event in Short-horn circles this season is the public sale of a consignment from the well-known herd of Mr. Geo. H. Burge, at Mt. Vernon, Iowa, on Thursday, February 17th. In the experience of the writer, representing The Homestead, there has not been such a strong lot of bulls consigned to one sale, the products of the herd from which they are sold bred by one man, as is the case in this offering. Royal George, a two-year-old roan hy Hopeful Knight, a richly-bred Nonpareil, is one of the good bulls included in the sale and he is of the right type, weighing in December over 1,900 pounds, and smooth and deep. Honor Bright is another son of Hopeful Knight and his dam was by Money Musk, a bull which has contributed some of the strongest matrons which have ever been used in this herd. This young bull, a year old in April, tips the beam at over 1,400 pounds. Knight Nonpareil is a yearling, hy Acrobat, he a winner at leading shows, and was sired by that great bull, Victor Mysie 2d. The dam of this bull was likewise by Money Musk. Victor of Wayside 2d is a richly-bred Victoria hy Money Musk and out of a dam by Imp. Golden Fame. This is one of the good calves of the sale. Grand Mogul is one of the younger bulls in the sale, being a year old the latter part of this month, and his sire was Money Musk, while his dam was by Caesar Augustus. Knight of Wayside is an April calf by Hopeful Knight and is a Missie. We have briefly referred to these good Scotch bulls and would advise our readers to get the catalogs at once as per the advertisement on page 54 of this

issue, and note the blood lines represented therein. The female contingent is a good one and throughout the entire offering it is one that will elicit praise from the lover of good Short-horns. Remember the date of the sale and plan to be present. Kindly mention The Homestead when writing for catalog.

THE LOONAN-GLENNY-REDENIUS PERCHERON SALE—LAST CALL.

The Percherons listed in the forthcoming public sale which will be held at Waterloo, Iowa, on Thursday, February 17th, are an unusually strong lot, such as are seldom found in any public sale. Messrs. Loonan, Glenny and Redenius are breeders of Percherons and not jobbers. The offering to be sold is, with the exception of the imported stallion consigned by Mr. H. Redenius (and they constitute a most excellent lot) are largely the productions of the studs owned by the consignors. Especial attention was paid to the selection of foundation stock and the mares offered in this sale are ample evidence of the wisdom in the selections made. There are fifteen mares that will weigh fifteen tons and they are in foal to Superior, without question one of the greatest sires in America. His get, thirteen in number, were shown at the International, 1909, and won twenty-two premiums, three gold medals and one diploma. While Superior has not been shown, he is producing the sort that win and are money makers in the buyers' hands. He will be at Waterloo at this sale, so that buyers will have an opportunity to see the horse which is either the sire of the mares or to which the mares are bred. The imported stallions consigned by Mr. Redenius were especially imported for this sale and the farmer or breeder who is in the market for a Percheron stallion will do well to be present sale day. There are twelve matched teams and there is no better opportunity to secure Percherons of exceptional merit than in this sale. Write for illustrated catalog as per the advertisement on page 55 of this issue and plan to be present at this sale, one of the most important of the year. Mention this paper when writing.

STEWART'S SHORT-HORNS AND POLAND CHINAS AT AUCTION.

The well-known breeder of Short-horn cattle and Poland China swine, Mr. J. M. Stewart, of Ainsworth, Iowa, will hold a public sale of both breeds at his farm near that city on Friday, February 25th, which should attract the attention of Homestead readers. The Short-horn consignment to this sale consists of twenty-five head, seventeen cows and heifers and eight bulls. The cows are in calf or have calves at side to the service of Scottish Lad, the bull which has been used in this herd with good success, being sired by Imp. Pittivie Merry Lad and out of a dam by Scottish Victor. This bull was shown at the International as a junior yearling and took third in a class of twenty-three shown. We will have more to say regarding this part of the offering in our next issue. The Poland Chinas which will be sold consist of forty-five head, of which number forty are gilts, and one of the strongest lots of gilts that have been sold at auction this year. They have the size and conformation which will suit discriminating buyers and they are bred to boars that insure the best results. Mr. Stewart has been breeding Polands too long not to realize what is most suited to the practical needs of the farmer and pork producer, and this is the sort of an offering that he has selected for this sale. The catalog giving full information regarding both the Short-horns and Poland Chinas will be mailed to all who write for same as per the advertisement on page 49 of this issue. The large-type boars are being used, the sows being bred to Standard Major 154655 and Chief I. X. L., this last named boar being the top pig in Mr. W. H. Cooper's sale at Hedrick last fall. Plan to be present at this sale and kindly mention The Homestead when writing.

BRIGGS & SONS SELL GRAND LOT OF DUROCS.

On February 24th, the day following the Van Patten sale, Messrs. Geo. Briggs & Sons, of Clay Center, Neb., will sell at the home farm as choice an offering as comes from any herd and considered the strongest gilt offering to be made in Nebraska this season. They have selected forty-five from out of a crop of more than 100 head, grown on alfalfa and other balanced feeds, with ground alfalfa, corn and shorts, and have made great scale, bone, feet and a breedily, thrifty-looking lot all through. They are fully up to the level that may be expected from a herd where the proprietor is recognized as the leading breeder of his state.

O. R. STEVENSON'S SALE OF HIGH-CLASS DUROC BROOD SOWS

JERSEY

Quimby, Iowa, February 22, 1910.
12 Head Yearlings and Matured Sows
25 Spring Gilts

Fellow Breeders and Farmers: I am putting up an excellently bred offering, and one that I am not ashamed to show the boys on sale day. These are sired by such noted sires as Advance, Ohio Chief, Junior Jim, Crimson Wonder Jr., Pericles, Improver King, Tip Top Notcher Lad, Sensation's Best, King West, Alpine Achiever and Mackey's King. These will be bred to Crimson Wonder Jr., Alpine Achiever, Budweiser Jr., Model Chief 7th and Dreadnaught Jr. Write for my catalog and come and buy these sows at your own price. I will also sell a choice lot of Aberdeen Angus bulls in this sale. Conveyance to parties from a distance from both Holstein, Iowa, and Quimby, Iowa.

O. R. STEVENSON, QUIMBY, IOWA.
Col. Pat McGuire, Auct. M. T. White and E. H. Cantine, Field Men.

IMPORTED PERCHERON MARES

Bred to Carnot 66666, International Champion of 1909.



Imported PERCHERON STALLIONS

2-Year-Olds; 3, 4 and 5-Year-Olds; Blacks and Grays.

If you want horses with lots of bone, quality, style and action I can please you. My January importation is now in my barns. I would like for you to see the mares bred to and heavy in foal to Carnot. Get my prices before buying. Only one yearling stallion of my entire importation is reserved. Come and see my 1910 importation.

S. J. MILLER, Kirksville, Missouri.

By that we mean a man who has been able to maintain his useful type and character of hog despite all fads and fancies of blood lines and showing fancies. The offering is sired by Lincoln Wonder, an Ohio Chief-Crimson Wonder-bred boar who has no superior in the state as a sire; Cherry Boy and McK's Improver, sons of Improver II., both making good; Kant's Improver, and Billie K's Model. They are bred for March and April farrow to Lincoln Wonder, Cherry Boy, McK's Improver, Kant's Imp. and Briggs' Wonder. About the toppest things in the sale are by Lincoln Wonder and out of Miss Norry, a Red Chief I Am sow that has been a regular producer of good ones for many seasons; Ruby I., and Clay Center Belle III. Lincoln Wonder is the sire and Crimson Belle, the dam of McK's Improver, is the mother of some very strong gilts in the sale. The offering throughout is of such character as breeders from any distance will not be disappointed in them. The catalogs are now ready and may be had upon application to Messrs. Briggs & Sons, mentioning The Homestead. Bids sent to Mr. Fred S. Larkin, Homestead representative, will be handled fairly. See announcement on page 50.

REPORT OF R. C. VEENKER'S DUROCS.

Mr. Ralph C. Veenker's sale of Duroc Jersey bred sows should have taken place on his farm, four miles east of George, Iowa, on Wednesday, January 26th, but, owing to a severe snowstorm that day, and all trains being blocked, he had to postpone it until Friday, January 28th, the day after Mr. Claud De Vaul's sale at Inwood, which was to a great disadvantage to Mr. Veenker's sale, for there were several good buyers who were blocked at points along the railroad that did not get a chance to attend this sale at all, and the time being so short before the sale was held to give notice, it is to be wondered at that he had a sale at all; but Mr. Veenker's offering was of such a good quality that, with as small attendance as he had, with a few mailed bids, he received a fair price, but not quite what he should have had. He sold thirty-six head and they brought him \$1,671, or \$46.40 per head, which was not so bad, for they were mostly gilts in the offering, and Mr. Veenker thinks that he got out very luckily, all things considered, and



The "STAY THERE" Aluminum Ear Markers

are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address **WILCOX & HARVEY MFG. CO., Dept. A, 325 Dearborn St., Chicago, Ill.**

GROSIER'S O. I. C. BARGAINS

(CHOICE bred sows and gilts bred to White Wonder for March, April and May farrow. Also four males. Priced at the bottom. Write now to **C. W. GROSIER, JUNIATA, NEBRASKA.**

wishes to thank one and all for their able and kind assistance. Below we give you a list of the sows that brought \$35 and better:

YEARLINGS.	
1 A. H. Moen, Inwood, Iowa.....	\$60
2 E. D. Wilbrath, Luverne, Minn....	65
3 Jacob Enboe, Canton, S. D.....	59
4 S. L. Berry, Parker, S. D.....	50
5 J. R. Thompson, Merrill, Iowa....	46
6 Wm. Schubert, Ellsworth, Minn....	45
7 E. D. Wilbrath.....	49
8 J. J. Castle, Inwood, Iowa.....	72
9 E. D. Wilbrath.....	44
10 J. J. Castle, Inwood, Iowa.....	45
11 F. L. Berry, Parker, S. D.....	75
12 J. J. Castle.....	50
13 John Becker, George, Iowa.....	45
14 A. H. Moen, Inwood, Iowa.....	36
15 J. J. Castle.....	40
16 E. L. Berry.....	51
GILTS.	
17 C. A. De Vaul, Inwood, Iowa.....	69
18 E. A. Jeffers, Rock Rapids, Iowa..	50
19 Peter Jacobs, Ellsworth, Minn....	42
20 F. L. Berry.....	50
21 C. A. De Vaul.....	83
22 C. B. Reynolds, Doon, Iowa.....	40
23 C. A. De Vaul.....	39
24 J. J. Castle.....	36
25 Andrew Thile, George, Iowa.....	29
26 C. A. De Vaul.....	39
27 C. B. Reynolds.....	35
28 E. D. Wilbrath.....	37
29 John Kannegeter, Little Rock, Iowa	41
30 Albert Grane, Hudson, S. D.....	41
31 Peter Jacobs, Ellsworth, Minn.....	35

LAST CALL FOR REPPERT'S WESTERN SALE CIRCUIT.

One of the last opportunities that will be offered to secure some splendid Duroc Jersey brood sows will be during the week beginning with February 14th, known as the "Fred Reppert Duroc Jersey Sale Circuit," when the following parties will sell as grand a lot of sows as have gone through a sale ring this winter: February 14th, Mr. E. Z. Russell, Blair, Neb.; February 15th, Mr. M. S. Moats, Missouri Valley, Iowa; February 16th, C. W. Huff, Mondamin, Iowa; February 17th, Mr. John R. Tupper, Woodbine, Iowa; February 18th, Mr. W. L. Hull, Logau, Iowa, and last, but not least, Mr. Ed B. Ryan, Neola, Iowa.

RUSSELL'S OFFERING—FEBRUARY 14TH.

One of the important features of the E. Z. Russell sale will be the closing out of all of his herd boars and brood sows, and what a grand, good offering these are. We seriously question whether a better lot of brood sows and gilts will go through a sale ring this winter, all things considered. Sows that he has heretofore refused to sell at any price will be sold in this sale. Daughters of Gold Dust Jim, that famous old sweepstakes boar that has done so much to make his herd famous, will be offered, together with daughters of Glendale Critic, Dusty Critic, Brighton Wonder, Jumbo Critic and other noted sires. Included in this sale will be some spring gilts that are sired by Dusty Critic that are not to be beaten in any sale ring this winter for size and quality. The breeder of Duroc Jerseys who is wanting to buy sows and gilts that have size and bone will be especially interested in the offering that Mr. Russell is selling. The boars that he has used and shown at the fairs the past few years have all been of the large kind, with quality combined, and as a result of prudent mating you will find extreme size in this offering. One of the great attractions in this sale will be the sale of the great herd boar, Proud Chief, a son of the noted Ohio Chief, out of the great sow, Proud Lady, and we will say, without fear of successful contradiction, that a better herd boar proposition will not be sold in any sale this winter. In the Gossard sale last week we think we saw the best bunch of gilts ever sired by one boar in one sale ring—all sired by Proud Chief, and this was remarked by such well-known authorities as Messrs. R. J. Harding, Frank Luther and others who were present at that sale. Mr. Harding remarked to the writer that he could see old Ohio Chief all over in this boar, and had he not been long on herd boars just now that somebody would have to pay for this boar. The breeder who wants to make a record for himself and his herd should by all means go after Proud Chief. Mr. Russell is also selling another great boar in Dusty Critic and three yearling sons of Proud Chief. Send for his catalog and be sure to go to the sale. If you cannot get there send a bid to Mr. M. T. White, who will represent The Homestead at this sale. See page 63.

M. S. MOATS—FEBRUARY 15TH.

On the above date that veteran breeder and showman, Mr. M. S. Moats, of Missouri Valley, Iowa, will put up one of his characteristic offerings of Duroc Jersey brood sows, and his is an offering that will appeal to all of the boys. Included in his sale will be the noted boar, Brighton Wonder, and here is one of the great sires of the breed. He is a brother to the great Crimson Wonder, Glendale Critic and other noted sires, and he was formerly used with success in the herds of Messrs. R. J. Huffman and R. J. Harding. He has few superiors as a sire of high-class stuff and his daughters have been leading winners at the Iowa State Fair the past few years. In this sale will be quite a number of daughters of the great boar, Proud Chief, and they are strictly all right and no man will go wrong that buys one of them. There is a two-year-old Glendale Critic sow in this sale that is one of the great sows of the year, and she goes in bred to Brighton Wonder. There will also be a splendid Ohio Chief sow in this sale that is bred to Brighton Wonder and a cracking lot of other good things that the boys will have to see in order to fully appreciate them. At the conclusion of the sale he will sell quite a few Short horns, both cows and heifers. Some of these will have calves at foot and some of them will be bred and safe in calf, and it will be a good place and a good time to buy a few of these. Send your bids to Mr. M. T. White, Homestead representative, and he will attend to your wants on sale day. See advertisement on page 63.

C. W. HUFF'S OFFERING—FEBRUARY 16TH.

On the above date Mr. C. W. Huff, of Mondamin, Iowa, will again come forth with an offering of well-bred Duroc Jersey brood sows, and he invites all of the breeders and as many farmers as possibly can to attend his sale. Included in his sale will be daughters of Proud Advance, Lafollette, Crimson Advance, J. D.'s Improver, Valley Chief, Inventor, Huff's Advance, Tip Top Chief, Guthrie Chief, Nebraska Belle's Ohio Chief and other noted sires. These are bred and safe in pig to Huff's Advance and Buddy's Improver, the boars that he is now using in his herd. The former boar is a son of I Am Advance and out of the great brood sow, Ohio Anna VIII, and the latter boar is a son of Buddy K. IV, and out of a daughter of Improver II. No. 1 of the catalog is Lady Proud, a daughter of the noted boar, Proud Advance, and out of a dam by Duroc Wonder. In speaking of this sow Mr. Huff says that he doubts very much if a better Proud Advance sow will be sold this winter. She is bred to Huff's Advance. Pansy Advance, the daughter of Mr. John Tupper's herd boar, Alphonso, is also a good brood sow proposition, and she is bred to the same boar. He is selling two daughters of Lafollette, one by Valley Chief, another by Inventor and others by noted boars that have already made good reputations in other herds. Mr. Huff tells us to extend all the boys a special invitation to be with him on sale day and he won't forget where they came from. He has been a good buyer in times gone by and is selling in this sale an offering that is by all odds the best blood known to the breed. If you cannot get there send your bid

to Mr. M. T. White, who will represent The Homestead at the sale. See page 63.

JOHN R. TUPPER—FEBRUARY 17TH.

The only thing of importance that we can say for Mr. John R. Tupper is that he is selling a class of brood sows on the above date that will please every man that attends his sale. Mr. Tupper was never known to put up a poor offering and we believe that his offering this year is just a trifle better than anything that he has heretofore sold from his herd. There will be daughters of Crimson Wonder, Again, Lafollette, Alphonso, Muncie Chief, Guthrie Chief, Kruger Lad, Ohio Anna's Advance, Dunlap Banker and other noted sires. These are bred to his great boars, Alphonso, Waveland, Colonel, Lad Kruger and Ohio Anna Advance. Mr. Tupper is certainly putting up a good offering of sows in this sale and we don't think there will be any better bred offering sold during the week. Mr. Tupper is a past master in the art of feeding and getting a bunch of sows ready for a sale and you can depend upon it that these sows will be in the condition that will do the buyer the most good. He is selling fifteen tried sows in this sale that are just as good as he has in his herd. Besides these, he is also selling twenty-five head of very choice gilts, and if he does not show you some good ones on sale day, then we don't know what a good gilt is. There will be some splendid Muncie Chief gilts in this sale and some good ones by Guthrie Chief. These are not all that he is selling that are good, but as we made individual mention of many of the offering in last week's paper we are going to leave it to our readers to peruse his catalog for the rest of it. If he does that we feel confident that Mr. Tupper will have you at his sale. Bids sent to our Mr. M. T. White, in Mr. Tupper's care, Woodbine, Iowa, will be attended to on sale day. See page 63 for advertisement.

W. L. HULL—FEBRUARY 18TH.

On the above date Mr. W. L. Hull, Logan, Iowa, will make his first public sale of Duroc Jersey brood sows, but those who have been keeping an eye on his buying will know what to expect in his sale. He is selling a splendid lot of matured sows and these are all bred to his two splendid herd boars, Lafollette and Crimson Chief. The former boar is too well known to readers of The Homestead to need any extended mention at our hands. He has been before the public for the past few years and the reputation of himself and his sons and grandsons is such that their get have always been in great demand. There have been about as many sale toppers among the Lafollette sows as any boar that has been used of late years in the West. His other boar is Crimson Chief, a son of the great Valley Chief, and he is one of the very best sons of that noted boar. This boar was sweepstakes hog at the Harrison County Fair in competition with the best boars in the western part of the state. That he is a good hog is testified to by every breeder who has seen him. A sow bred to either one of these two boars will be good propositions for any breeder to put into his herd. There will be eight head of Valley Chief fall yearlings in this sale all bred to Lafollette, and here is a cross that should nick well. He is selling a good W. L. A. S. Choice Goods gilt bred to Muncie Chief in this sale and he is also selling a good Advance sow bred to Lafollette. Mr. Hull is also selling some very choice gilts in this offering and, taking the collection as a whole, we can truthfully say that those who attend his sale will be well pleased with what he puts up on sale day. Write for his catalog and kindly mention The Homestead. Any bids sent to our Mr. M. T. White will be honorably treated on sale day. See advertisement on page 63.

E. B. RYAN'S OFFERING—FEBRUARY 19TH.

On Saturday, February 19th, Mr. E. B. Ryan, of Neola, Iowa, will hold the fort.

A NOTABLE POLAND CHINA HERD.

The engraving which appears herewith shows Mr. J. W. Pfander, of Clarinda, Iowa, and his three sons, who are associated with him in the breeding of Poland China hogs. These gentlemen announce a public sale of brood sows to take place at Clarinda, Iowa, on February 26th, next. A great feature of the sale will be the predominance of the blood of that great herd boar, Long King. The writer has, perhaps, for a greater number of years than any other man in the same line of business, been visiting the prominent herds of the United States, and in all his extended experience he has seen but two hogs of the Poland China breed that would stand as rivals to Long King in the matter of immense size and bone. This hog is now seven years old, but carries his immense weight and bulk with remarkable vigor. In the Pfander herd he has produced wonderful results, being a prepotent breeder whose get carry in an unusual degree his strong points of size. It is not to be wondered at that this hog should carry this feature of prepotency. His



blood lines are of just the sort which would intensify it. The top of his pedigree traces directly to old Tecumseh and Tom Corwin 2d, the two strains which commingled have made the Poland China breed what it is today. By their pedigrees it will be found that the lines trace to the same identical source. With reference to the herds from which they came the same facts exist. Two-thirds of the pedigrees may be traced back to that grand old-time breeder, Mr. David Finch, of Oxford, Ohio. For the three generations immediately preceding almost every animal was bred by Mr. Peter Mouw and Mr. Mouw holds the record of having held the most popular and highest-priced sales of big and big-boned Poland China hogs. We cannot recall any herd anywhere which comes as near to the ideal of the Mouw herd as does that which predominates at Messrs. Pfanders'. Every reader of The Homestead who is interested in better and bigger hogs should write to Messrs. J. W. Pfander & Sons, Clarinda, Iowa, asking for catalog of this sale. See advertisement on page 51.

90 BULLS

120

30 COWS



HEREFORDS



In The 4th Annual Sale By

Funkhouser, Gabbert and Others

TO BE HELD AT

KANSAS CITY, MISSOURI, MARCH 8-9, '10

90 High-Class Bulls--30 Cows and Heifers

BREEDERS, FARMERS AND RANCHMEN

CAN ALL BUY HERE.

Will the SHORTAGE of beef cattle with INCREASED DEMAND, mean HIGHER PRICES? Haven't you had SUFFICIENT WARNING that this country is facing a SCARCITY of beef cattle? Can you afford to raise scrubs or common cattle on HIGH-PRICED LAND and HIGH-PRICED FEED? Answer these questions yourself. To those who have attended THIS annual event, it is only necessary to say, the offering will be STRICTLY up to our STANDARD. To those who have not, we extend an URGENT invitation to attend this sale and be convinced of the well ESTABLISHED FACT that at no place on the GLOBE can such BARGAINS in either QUALITY, BREEDING or PRICE in PURE-BRED CATTLE be had as at OUR KANSAS CITY SALES.

Yours very truly,

C. W. ARMOUR,
Kansas City, Mo.
S. L. STANDISH,
Hume, Mo.
BENTON GABBERT,
Dearborn, Mo.
S. J. GABBERT,
Dearborn, Mo.
C. N. MOORE,
Lee's Summit, Mo.

J. W. LENOX,
Lake City, Mo.
W. A. DALLMEYER,
Jefferson City, Mo.
R. T. THORNTON,
Kansas City, Mo.
FUNKHOUSER ESTATE,
Plattsburg, Mo.

R. H. HAZLETT,
Eldorado, Kan.
T. W. CARMICHAEL,
Odeasa, Mo.
MAKIN BROS.,
Grand View, Mo.
SCOTT & MARCH,
Belton, Mo.
JAMES A. GIBSON,
Odessa, Mo.

EGGER HEREFORD CATTLE CO., Appleton City, Mo.

For catalogs and further information address

R. T. THORNTON, 1309 E. 15th St., KANSAS CITY, MO.

Cols. Bellows, Zaun and Rogers, Auctioneers.

and his will be the last sale of the Fred Reppert circuit. Mr. Ryan has long since been known as one of the best hog men in western Iowa and he always raises enough that he can pick out a good offering. He is selling forty-five head in this sale and the man that does not go to his sale will make a great mistake, especially if he wants to buy some good sows. He will sell daughters of Tientsin in this sale, also daughters of Jim Advance, a full brother to the noted Proud Advance; I Am Advance; Alphonso, and quite a number of granddaughters of Ohio Chief. These will be bred to Crimson

King, C. W. Chief, Lafollette's Improver, Model Prince or Harlan Lad. Among the good sows that he is selling is a daughter of H. A.'s Choice Goods, bred to Crimson King, and she is one of the best things that he is selling in the sale. Tientsin Belle, a daughter of old Tientsin, is another good sow and she is bred to Harlan Chief, the sire of the fifth-prize pig at the Iowa State Fair last fall. A two-year-old sow bred to Jim Advance is also one of the attractions in the sale and she is bred to Harlan Chief for an early farrow. There is a good gilt in the sale sired by Hager's Kruger Lad and a good granddaughter of Ohio Chief called Daisy I Am, bred to Crimson King. There are two good Alphonso gilts in his offering and two daughters of I Am Advance out of Ohio Beauty by Ohio Chief. You will find that Mr. Ryan is putting up a good offering in this sale and it behooves the breeders to come out and attend his sale. His catalog is now ready. Write for it and mention The Homestead. You will be able to buy sows in his sale and buy them right. Bids sent to Mr. M. T. White, in Mr. Ryan's care, will be properly attended to on sale day. See page 63.

SUNNY SLOPE HEREFORDS AT AUCTION.

Sunny Slope Farm, the great Sunny Slope herd of Hereford cattle and Mr. C. A. Stannard, of Emporia, Kan., proprietor of the plant, have been continuously before the cattle breeders of the world for years, so that every lover of the "white face" knows of the herd, how it has been a great factor in the improvement of the breed and that from this herd have come many of the good things that have done their share to build and improve other herds. For a period now nearing the twenty-year mark Mr. Stannard has devoted his time to the Hereford. During the past few years some of the profits derived from the Hereford cattle have been invested in other lines of business. These have outgrown Mr. Stannard's expectations and are demanding so much of his time that the Herefords and beautiful Sunny Slope Farm or other interests must be disposed of. Lack of one capable of managing Sunny Slope in Mr. Stannard's absence decided the question and Sunny Slope Farm is offered for sale. The Hereford cattle, horses, hogs and all farming implements are to be disposed of at public auction on March 1st, 2d and 3d. All told 350 head of live stock are to be sold in the three days. The herd of Herefords numbering 250 odd head are to be disposed of on March 1st and 2d. On the 3d twenty-five mares and horses, the milk cows, forty purebred Berkshire hogs, the sheep, machinery, etc., are to be sold. The herd of Hereford cattle is one of America's greatest, better bred cattle are not found and the individual merit of the members of the herd is such that breeders and those who want foundation cattle may buy here as good as are found. Great bulls have always done service in the herd. It has had for herd headers such noted sires as Wild Tom, Keen On, Lord Saxon, Java and others, but today in Beau

Mystic 179920 Sunny Slope Herefords are headed by one of the greatest bulls in America. He is a grand individual, a show bull that can go out as an aged bull and show them all. A smoother-covered bull is not found. He carried more meat over the hooks than most bulls carry over the heavier-fleshed parts of their carcass. From the hip back Beau Mystic is the best bull the writer has ever seen. From the hooks forward he compares with the best. He furthermore has great scale, weighing close to 2,500 pounds and has all the quality of the neat, tidy, little bulls. His get show him to be a great breeding bull, just strong enough in Anxiety breeding to impart the quality and conformation demanded in the modern type. Whoever gets him will have the satisfaction of knowing he has one of the few great bulls. Three assistant herd bulls, Expectation, a member of the 1909 show herd; Beau Doncaster, and Beau Golden, will also be found bulls worthy of consideration by those looking for herd bull material. Thirty young bulls will also be sold. The entire show herd goes and the 100 valuable brood cows. Sixty of these sell with calves at foot. Such an opportunity is rarely found to buy the most profitable things ever put through sale rings. A large percentage of these calves are by Beau Mystic and they form a great string. Among the cows are several show cows, some that have never met defeat and when placed in the breeding herd have gone on reproducing their kind. Showmen will find among the show stuff individuals that should be carried on for the coming shows. Breeders who want choice things to add to their herds will not be disappointed, and the man who wants foundation cattle should not miss the opportunity. A good, strong buy would be Sunny Slope Farm, then take from the herd such cattle as you thought best and continue from right where Mr. Stannard leaves off. The publicity the farm and herd have been given would be a valuable asset from the start. For more complete information of the sale and for catalogs address Mr. Stannard at Emporia, Kan., and kindly say you do so at the solicitation of this paper. See page 51.

PFANDERS' POLAND CHINA SALE.

Messrs. J. W. Pfander & Sons, of Clarinda, Iowa, announce a public sale of Giant Poland China sows to take place at Clarinda, Iowa, on Saturday, February 26th. The advertisement of this sale will be found on page 51. Forty-two head of sows have been cataloged for this sale. They include mature and tried brood sows, fall yearlings and spring gilts. The great feature of this sale is the herd boar, Long King 45837. A large proportion of the offering are the get of this hog and many others have been bred to him. Those not of his get are daughters of Big Prospect, Crescent Tom, Longfellow P., Long Giant, P.'s Chief Price, Blue Valley Giant, Big Hadley 2d, Up To Date 2d and Pawnee Prince. The dams are daughters of such sires as Pawnee Lad, Nelson, Jumbo 2d, P. W. Perfection, Dude's Winner, Jumbo, Longfellow H., Woodbine Chief, Long Giant, Crescent Tom, Young John, Big Giant, Big Prospect and Long King. It will be seen that this offering is made up of a combination of the blood which has produced big hogs, those which satisfy the present urgent demand for that kind. The animals that make up the sale will not be any disappointment to those who depend upon suggestions made by the lines of breeding. They have all the size that the most ardent admirer of big hogs could demand, yet with all this size they have not been over fattened. In fact, they are not carrying flesh enough to make their best appearance in the sale ring. But they are certainly great, big, good well-formed hogs and no reader of The Homestead who is looking for that kind can afford to miss the sale. A representative of The Homestead makes these statements after a personal inspection of the entire consignment. Additional facts will be given in a later issue of this paper. In the meantime, however, catalogs may be secured by writing to Messrs. J. W. Pfander & Sons, Clarinda, Iowa. Those who find it inconvenient to attend the sale may forward bids to Mr. C. C. Carlin, of The Homestead, in care of Messrs. Pfander & Sons.

PETTY BROS.' GREAT JACK AND JENNET SALE.

Messrs. Petty Bros., of Sedalia, Mo., will, on Thursday, March 3d, make their annual sale of Mammoth jacks and jennets, selling twenty-five head of great big jacks and a fine string of fifteen jennets. These gentlemen are in the business to stay, they breed many and when it comes to ferreting out good ones to offer the trade, they are always to the front. At the last Missouri State Fair these gentlemen won a great string of blue ribbons. They also showed the champion and grand champion jack, Tennessee King, and he and seven other prize winners are included in the sale. As the Missouri State Fair jack show is the largest of the kind, these prizes are not to be overlooked. Tennessee King won first in class and was made champion with fourteen jacks showing for this honor. He is an almost perfectly proportioned jack, with great head and ears, good legs and good depth of body. High Tower, a first premium jack in the three-year-old class, will please those looking for a jack with much bone, a good head and ear and lots of style. He stands fifteen and one-half hands high and is right. Prince Giant, a four-year-old, with a great breast, fore arm and legs to please the more discriminating, is a sixteen-hand jack that won first in the two-year-old class at Danville, Ky., in 1907, and first in class at the Kentucky State Fair the same year. Gladstone, a three-year-old that stood second in class at the Missouri State Fair, is one of the tall kind, with medium bone of good quality. He is the sort that pleases the western buyer. Dare Dinger, a three-year-old, with a great set of legs and deep body, is one of the more compact sort that looks like as good a breeding jack as is often found. Chas. Murphy, now two years old, is another of the prize winners, he having won second in class at the Missouri State Fair last year. He is one that will please those looking for a clean, well-balanced jack. Messrs. Petty Bros. are selling none but those they think will do good wherever they go. They have gone to much expense getting such a good string for the sale and their efforts should be appreciated. They are listing fifteen jennets bred to Prince

Giant, Orphan Boy and Tennessee Winner. Our readers will find Messrs. Petty Bros.' jacks and jennets the kind that make good. These young men extend to all a cordial invitation to be with them sale day. They want to mail you a catalog and will if you will send them your name and address. When doing this kindly remember to mention this paper. See page 58.

S. J. MILLER BRINGS PERCHERON MARES BRED TO CARNOT.

Mr. S. J. Miller, of Kirksville, Mo., the well-known importer of Percheron stallions and mares, recently returned from France with by far the finest string of stallions and mares that he has ever brought from across the water. Mr. Miller is a breeder and an importer who knows the requirements in a Percheron and he brings to America such horses as he knows will greatly improve the American stock. In this importation is found a great string of young stallions just turning two years of age. They are an extra heavy-boned lot, with lots of style and action and like all the horses Mr. Miller brings, they have quality. He also brought some great three and four-year-olds and they, too, have scale, bone and quality. All are blacks and dark grays. Mr. Miller also brought a great string of mares consisting of yearlings and up to six-year-olds. A string of these mares are bred to the celebrated Carnot 66666, the great International champion of 1909 that was imported during the summer of 1909 and was sold at the International to Mr. Corsa at the reported price of \$10,000. The mares bred to Carnot are mares far above the ordinary, as in France such stallions are not allowed to serve the plainer mares. These mares are now heavy in foal. One is due within the month and those who buy these mares will be in on the ground floor with colts by Carnot. Among these mares is a dapple gray that won first in Paris in 1907. She is a great-bodied mare, set on four good legs and is a strictly high-class draft mare. A black pleased the writer even more than this dapple gray and it is a matter of choice between these great mares. They are five and six years of age and show in foal. Mr. Miller is and always has been an admirer of Brilliant and Besigue-bred Percherons and he has in this bunch several line-bred Brillants and Besiques. These stallions and mares are offered at a very reasonable advance over first cost and importation expenses. Mr. Miller used excellent judgment in bringing young stallions and mares heavy in foal, as they will increase in value very rapidly. Each foal when grown will be worth the asking price of the mare and our readers should take advantage of this opportunity. See page 47 for Mr. Miller's advertisement and when writing or visiting him kindly mention this paper.

LIMESTONE VALLEY FARM'S TWO-DAY SALE OF JACKS, JENNETS, HORSES.

We this week take great pleasure in calling the attention of our readers to the full-page advertisement of Messrs. L. M. Monsees & Sons, of Smithton, Mo., proprietors of the Limestone Valley Farm, a farm that has gained an international reputation as a breeding ground for the Mammoth jack and registered saddle-bred horses. From a very modest start, as is shown at the foot of the ladder, the senior Mr. Monsees has climbed the ladder until today he is found resting at the top, and is in as secure a position as is often illustrated by the rock of Gibraltar. His success is little short of marvelous. Few have attained such a position and few realize that to Mr. Monsees and his sons is due a great portion of the credit for making this the greatest mule-producing country on the face of the globe. Mr. Monsees, his good wife and three sons invite you to attend their thirty-third sale to be held at the Limestone Valley Farm on March 1st and 2d. For this event no such an offering of Mammoth jacks, jennets and registered saddle-bred horses have ever been exposed at public treaty. One hundred head of stock are cataloged. The entire stud of registered saddle-bred horses will be dispersed. Among the jacks and jennets is found more of the blood of the two World's Fair grand champions (Limestone Mammoth and Orphan Boy) than has ever been sold in a Limestone Valley Farm sale. Never before has there been such an even offering put up at Limestone Valley Farm and never before has there been offered a jack so worthy of breaking all world's records for a high-selling jack. The jack referred to is Baritone Mammoth, a son of Orphan Boy and out of a daughter of Limestone Mammoth. This young jack, now three years old, is without question one of the best young jacks and one of the best-bred young jacks living. The twenty aged jacks will be found a great quality bunch. They have perhaps more bone, taken as a whole, than any lot ever offered, and buyers will find this the greatest bunch of jacks they have ever seen together. Remember they sell the first day, as do the horses. On the second day Messrs. Monsees & Sons have a great treat stored up for those who want the blood of Limestone Mammoth and Orphan Boy through young jacks by these grand champions, jennets by them and bred to them. It has been Mr. Monsees' desire to make such an offer and this is his first opportunity. The lovers of the saddle horse should remember that the Limestone Valley Farm stud is one that is made up of as high a class of stallions and mares as are often found. Limestone Artist 989, the head of the stud, was bred at Limestone Valley Farm and was got by Artist Montrose, the sweepstakes stallion at the World's Fair held at Chicago in 1893. Limestone Artist has proven a great sire. He stands sixteen hands high, weighs 1,200 pounds and shows seven distinct saddle gaits. Mr. Monsees can turn this great saddle stallion loose in his paddock and by talking to him make this great horse show each of his distinct saddle gaits. This will be a great opportunity to secure saddle-bred horses. Remember the saddle horses sell on the first day, as do all the aged jacks, so arrange to spend two days at the Limestone Valley Farm sales. These gentlemen have issued a beautifully-illustrated, eighty-six-page catalog for this event. If you have not received one send your name and address and they will take pleasure in mailing you one. See page 57 for their full-page advertisement and when writing them kindly mention this paper.

SHORT-HORNS

AND

POLAND CHINAS

AT AUCTION

FRIDAY, FEB. 25, 1910

AT AINSWORTH, IOWA.

THE SHORT-HORN CONSIGNMENT NUMBERS

25 Head--17 Females--8 Bulls

THE females of breeding age have calves at foot or are in calf to the Scotch bull, Scottish Lad 285706, an International winner, by Imp. Pitlirie Merry Lad. The bulls are an unusually strong lot, with one exception all Scotch.

45 Poland China Brood Sows

By Panorama 132727; Royal Strapper; Bred to Standard Major 154655 and Chief I. X. L. Jr. 154651. Forty gilts; without question the best lot to be sold this season. Bids sent to Dante M. Pierce properly handled. Write for catalogs.

J. M. Stewart, Ainsworth, Iowa.

Cols. Bellows, Cooper and Macon, Auctioneers.

CAREY CAMERON'S GREAT OFFERING

DUROC JERSEY BROOD SOWS

Herman, Nebraska, February 21, 1910

41 HEAD 41
300 and 350-lb. Spring Gilts

THESE are sired by Gold Dust Wonder, Gold Dust Jim 3d, Critic's Model and Russell's Choice, and they are out of my very best brood sows. A better bunch of young sows will not be sold in the state this winter. Five young Short-horn bulls—I will also sell five choice, young Short-horn bulls in my sale, sired by Butterfly's Chief 232417, that are strictly all right. Write for my catalog.

CAREY CAMERON, HERMAN, NEBRASKA.

Col. Geo. P. Bellows, Auct. M. T. White, Field Man for Homestead.

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.

MISSOURI AUCTION SCHOOL

One hundred and twenty-one students attended the January term, 1910. NEXT FOUR WEEKS' TERM WILL OPEN APRIL 4TH, AT OKLAHOMA CITY, OKLA. The tuition the same as heretofore, \$50.00 down and \$50.00 after you have made \$200 out of the business, no note required. Lifetime scholarship given.

AUCTIONEER JOKER, published monthly at 50c per year.

Wm. Carpenter, President.

Address: Trenton, Mo., until March 4th, after that date Oklahoma City, Okla.

SEXSMITH & STRONG SALE.

The Duroc Jersey sow sale of Messrs. Sexsmith & Strong, at Greenfield, Iowa, on January 27th, brought out a good crowd of breeders and farmers and fifty-one head sold at an average of \$42.20. The offering was quite good and did not bring near what they were worth. However, everything was disposed of. Cols. Frank Luther and Alvah Manifold were the auctioneers. Below we list those selling for \$30 and above:

Lot.	Price.
1. Jake Pokorny, Clarkson, Iowa.....	\$ 79
2. Dan Hobart, Greenfield, Iowa.....	55
3. P. O. Joint, Fontanelle, Iowa.....	36
4. Madison Spencer, Audubon, Iowa.....	40
5. S. J. Madison, Ncvinville, Iowa.....	42
6. F. L. Fritz, Fontanelle, Iowa.....	35
7. A. J. Menefee, Adair, Iowa.....	70
8. Waltemeyer Bros., Melbourne, Iowa.....	60
9. Geo. M. Murray, Maryville, Mo.....	49
10. A. R. Olson, Woodward, Iowa.....	46
11. Frank Butterfield, Ankeny, Iowa.....	48
12. T. G. Golly, Irwin, Iowa.....	36
13. W. R. Hainline, Blandinsville, Iowa.....	59
14. L. P. Hoovius, Kent, Iowa.....	40
15. P. O. Joint.....	35
16. H. S. Allen, Russell, Iowa.....	105
17. J. W. Reynolds, Earlring, Iowa.....	49
18. D. Hobart.....	46
19. Same.....	46
20. S. E. Alley, Greenfield, Iowa.....	37
21. Clayton Barradale, Camden, Ohio.....	41
22. O. A. Tuttle, Greenfield, Iowa.....	37
23. Wm. Foster, Greenfield, Iowa.....	30
24. W. A. Rankin, Carson, Iowa.....	37
25. C. A. Rasmussen, Harlan, Iowa.....	53
26. Geo. McMurray, Maryville, Mo.....	50
27. Joe Kruse, Mt. Etna, Iowa.....	50
28. G. H. Ocker, Aurora, Neb.....	40
29. John Goddard, Harlan, Iowa.....	41
30. Joe Smith, Greenfield, Iowa.....	40
31. Hawks & Bishop, New London, Iowa.....	45
32. W. L. Hull, Logan, Iowa.....	36
33. Andy Wilson, Greenfield, Iowa.....	36
34. Floyd Knapp, Redfield, Iowa.....	34
35. Andy Wilson.....	39
36. Albert Davis, Greenfield, Iowa.....	65
37. H. S. Allen.....	37
38. John Goddard, Harlan, Iowa.....	34
39. Loyd L. Clark, Greenfield, Iowa.....	36
40. Dan Hobart.....	36

ALLEN AVERAGES \$64.35 ON DUROCS.

On January 28th, at Chariton, Iowa, Mr. H. S. Allen, of Russell, Iowa, made another great sale and thirty-nine head cataloged sold at an average of \$64.35. The demand for anything bred to his noted sweepstakes boar, Crimson Wonder Again, was in strong favor and brought good prices. The sale was clean cut and everything was disposed of at figures that the ringside talent were willing to pay. The attendance was good from neighboring towns and from a distance; in fact it was one of the best-attended sales of the season. The great breeding qualities of Crimson Wonder Again seemed to be a strong factor in again making this sale one of the best of the year. Colonels Luther and Manifold cried the sale. Below is a list of buyers paying \$30 and above:

Lot.	Price.
1. Waltemeyer Bros., Melbourne, Ia.....	\$101.00
2. Same.....	105.00
3. Jno. R. Tupper, Woodbine, Iowa.....	60.00
4. J. O. Bayne, Aurora, Neb.....	86.00
5. T. R. Chambers, Seton, Ill.....	85.00
6. H. Smith & Son, Tobias, Neb.....	85.00
7. Sexsmith & Strong, Orient, Iowa.....	70.00
8. Droz & Jenks, Fairfield, Iowa.....	77.00
9. C. E. Veak, Essex, Iowa.....	78.00
10. J. M. Elliott, Russell, Iowa.....	39.00
11. W. M. Sells, Indianola, Iowa.....	111.00
12. D. W. Thomas, New Virginia, Ia.....	70.00
13. W. N. Shanks, Worthington, Minn.....	112.00
14. J. McDougal, Chariton, Iowa.....	65.00
15. J. C. Keilman, Seton, Ill.....	65.00
16. H. Smith & Son.....	50.00
17. W. H. Thomas, Sewell, Iowa.....	61.00
18. Miles Harkins, Pleasantville, Ia.....	50.00
19. C. O. Thornburg, Pleasantville, Ia.....	45.00
20. J. S. Ruddell, Corydon, Iowa.....	47.00
21. A. J. Menefee, Adair, Iowa.....	69.00
22. W. F. Gavin, Churchville, Iowa.....	57.00
23. Lester Vannice, Russell, Iowa.....	117.50
24. J. E. Drake, Yellow Springs, Ohio.....	66.00
25. Hanks & Bishop, New London, Ia.....	40.00
26. A. J. Menefee.....	70.00
27. J. E. Weller, Faucett, Mo.....	40.00
28. Droz & Jenks.....	80.00
29. T. J. Link, Winterset, Iowa.....	74.00
30. W. M. Sells, Indianola, Iowa.....	47.00
31. Ed F. Hurlburt, Stonington, Ill.....	66.00
32. A. R. Barnes, Petersburg, Neb.....	40.00
33. W. F. Gavin.....	39.00
34. C. O. Thornburg.....	40.00
35. John Goddard, Harlan, Iowa.....	37.50
36. J. M. Elliott.....	35.00
37. A. F. Hager, Avoca, Iowa.....	48.00
38. S. A. Grimes, Chariton, Iowa.....	39.00
39. W. F. Schreck, Chariton, Iowa.....	41.00

BUTTERFIELD'S DUROC SALE.

On Wednesday, February 2d, Mr. F. B. Butterfield, of Ankeny, Iowa, disposed of thirty-eight head of Duroc Jersey sows at an average of \$29.65. Prices ruled low and there was no disposition to pay full value for any of the offering. Mr. F. X. Simmell, of Ankeny, Iowa, topped the sale, securing a splendid sow at \$49. He was a liberal buyer and bidder. Mr. L. E. Harvey, of Ankeny, secured a number of bargains and was the largest buyer of the offering. Col. H. S. Duncan conducted the sale in a most satisfactory manner and was ably assisted in the ring by Col. Chas. Howard. Animals selling for \$25 or over are listed below:

Lot.	Price.
1. F. X. Simmell, Ankeny, Iowa.....	\$49.00
2. A. P. Alsin, Boone, Iowa.....	46.00
3. F. X. Simmell.....	38.00
4. Same.....	32.50
5. Same.....	31.00
6. I. W. Brubaker & Son, Prairie City, Iowa.....	32.50
7. S. L. Hopper, Neola, Iowa.....	35.00
8. D. J. Pollock, Thayer, Iowa.....	33.00
9. Same.....	38.00
10. John Goddard, Harlan, Iowa.....	35.00
11. L. W. Cowgill, Ankeny, Iowa.....	25.00
12. Arthur Hitchcock, Ankeny, Iowa.....	27.00
13. L. E. Harvey, Ankeny, Iowa.....	37.00
14. Same.....	37.00
15. P. J. Koppelman, Ankeny, Iowa.....	31.00
16. Ringenberg, Ankeny, Iowa.....	30.00
17. Mossman, Radcliffe, Iowa.....	36.00

19. L. E. Harvey.....	26.00
20. Same.....	26.00
21. W. R. Bennethum, Madrid, Iowa.....	29.00
22. L. J. Hiller, Highland Park, Iowa.....	27.00
23. Arthur Hitchcock.....	28.00
24. A. F. Hager, Avoca, Iowa.....	34.00
25. F. X. Simmell.....	41.00
26. C. Shellheart, Ankeny, Iowa.....	35.50
27. L. E. Harvey.....	29.00
28. Same.....	25.50
29. Same.....	25.50
30. Same.....	25.50

SUMMARY.
38 head\$1,127; average....\$29.65

HUMMER'S CHESTER WHITE SALE.

The dispersion sale of Chester White swine owned by Mr. A. A. Hummer, was held at Keswick, Iowa, on Wednesday, January 26th. There was a good representative lot of breeders present, but several local sales in the immediate vicinity restricted the attendance of farmers. However, prices ruled satisfactory to the seller and those who were present secured good values. Messrs. E. L. Nagle & Son, of Deep River, Iowa, topped the sale, securing a splendid sow, Molly Again 22592, at \$61. Messrs. L. C. Reese, W. E. Huffman, F. E. Shearer, Henry Schehl, D. H. Lewis and Thos. O'Rourke were liberal bidders and buyers of the best sorts. Col. C. C. Evans conducted the sale in his usual satisfactory manner. Animals selling for \$25 or over are listed below:

Lot.	Price.
1. L. C. Reese, Prescott, Iowa.....	\$44.00
2. Thos. O'Rourke, Keswick, Iowa.....	38.50
3. Bruce Jones, Keswick, Iowa.....	34.00
4. Same.....	36.00
5. B. M. Gilmore, Joy, Ill.....	33.50
6. W. E. Huffman, Aledo, Ill.....	56.00
7. W. Burdine, Gibson, Iowa.....	27.00
8. F. E. Shearer, Joy, Ill.....	56.00
9. E. L. Nagle, Deep River, Iowa.....	61.00
10. Geo. T. Jackson, Montezuma, Iowa.....	51.00
11. O. E. Miller, Gibson, Iowa.....	37.00
12. Thos. O'Rourke.....	33.00
13. W. Burdine.....	30.00
14. Thos. O'Rourke.....	28.00
15. O. E. Miller.....	36.00
16. Thos. O'Rourke.....	40.50
17. C. M. Hummer, Keswick, Iowa.....	26.00
18. A. W. Moore, Keswick, Iowa.....	30.00
19. Same.....	38.00
20. C. M. Hummer.....	30.50
21. A. W. Moore.....	40.00
22. Thos. O'Rourke.....	27.00
23. Same.....	35.00
24. Henry Schehl, Prophetstown, Ill.....	35.50
25. Thos. O'Rourke.....	27.50
26. F. E. Shearer.....	40.00
27. B. M. Gilmore.....	31.00
28. Thos. O'Rourke.....	26.00
29. N. L. Fuller, What Cheer, Iowa.....	34.00
30. D. H. Lewis, Geneseo, Ill.....	40.00
31. Thos. O'Rourke.....	36.50
32. Same.....	27.50
33. Same.....	38.50

SUMMARY.
33 head\$1,204.50; average....\$36.50

OLSON BROS.' DUROC SALE.

Messrs. Olson Bros., of Woodward, Iowa, and Mr. A. O. Olson, of Madrid, Iowa, held a successful Duroc sale at Woodward, Iowa, on Monday, January 31st. There was a fairly good representation of breeders and farmers present and while prices were conservative, good values were the rule. Sows bred to Golden Model were in demand. Mr. Ernest Petticoord, of Perry, Iowa, topped the sale, paying \$70 for a splendid daughter of Golden Model bred to Advancer 1st. Col. H. S. Duncan sold the entire offering in an excellent manner and was ably assisted in the ring by Col. C. E. Luther. List of sales is given below:

Lot.	Price.
1. Ernest Petticoord, Perry, Iowa.....	\$70.00
2. A. T. Sundell, Paton, Iowa.....	40.00
3. J. C. Beam, Woodward, Iowa.....	36.00
4. Same.....	36.00
5. Nels Kruse, Woodward, Iowa.....	45.00
6. C. Bodkin, Woodward, Iowa.....	45.00
7. C. W. Henry, Coon Rapids, Iowa.....	50.00
8. Robert Snedden, Woodward, Iowa.....	45.00
9. B. C. Marts, Polk City, Iowa.....	56.00
10. C. W. Henry.....	45.00
11. Same.....	40.00
12. Same.....	40.00
13. Same.....	48.00
14. O. E. Thornburg, Perry, Iowa.....	51.00
15. W. R. Bennethum, Madrid, Iowa.....	61.00
16. Geo. T. White, Dallas Center, Iowa.....	42.00
17. O. R. Stevens, Rippey, Iowa.....	36.00
18. Chas. Hughes, Woodward, Iowa.....	36.00
19. T. E. McGhee, Woodward, Iowa.....	26.00
20. A. F. Bennett, Woodward, Iowa.....	51.00
21. S. L. Hopper, Neola, Iowa.....	34.00
22. Nels Kruse.....	45.00
23. M. J. Putman, Tecumseh, Neb.....	37.50
24. T. E. McGhee.....	37.00
25. M. C. Cramer, Monroe, Iowa.....	40.00
26. Aug. Peterson, Woodward, Iowa.....	40.00
27. Ira Snapp, Coon Rapids, Iowa.....	45.00
28. Chas. Hughes.....	50.00
29. Mike Grimm, Coon Rapids, Iowa.....	26.00
30. Lewis Bridle, Woodward, Iowa.....	39.00
31. Mike Grimm.....	31.00
32. W. R. Grow.....	35.00
33. Extra 33 1/2. M. J. Steele, Woodward, Iowa.....	51.00
34. Extra. Aug. Peterson.....	51.00

SUMMARY.
33 head\$1,360; average....\$41.21

GUARANTEED SEED CORN.

There is no question but what this is one of the worst years the farmer has ever seen, when it comes to seed corn. The corn throughout the central and northern part of Iowa and the northern part of the corn belt was frozen in October, so that it will not grow. Our readers will find that they will do well to investigate their corn and if they are in doubt about it growing, they had better buy their seed corn from a reliable seed company that guarantee their seed corn to grow, for the germination is very important. We find that the A. A. Berry Seed Company, of Clarinda, Iowa, have a large stock of choice seed corn of high germination which they sell on ten days' approval, guaranteeing it to be of high germination and satisfactory in every way. We would advise writing them for their 100-page seed corn catalog, which gives a description of all varieties and quotes attractive prices. You will find their advertisement on page 42 of this paper.

NOTED NEBRASKA DUROC SALES

GOLDEN ROD PRIZE-WINNING DUROCS
SELL AT AUCTION AT
Sutton, Neb., Wednesday, Feb'y 23, '10

40 HEAD 23 yearlings and 17 spring gilts from a herd with a record of ten sweepstakes ribbons in ten years showing at Lincoln and more than 100 other ribbons. In the sale will be ten by Medoc, the greatest breeding son of Kant-Be-Beat; 5 by Advancer III.; 3 by Kant-Be-Beat; 2 by Tom Davis; 1 by Red Wonder; and Echo Top King, Crimson Wonder 3d, Kant's Echo, Davis Chief, Belle's Chief I Am and Advancer. They are bred to Medoc, Davis Chief, a great son of Ohio Chief, Echo Top King and Golden Rod King. A combination of prize-winning blood and superior individuality is offered, bred to some of as great sires as the breed affords. Col. Callahan, Auct. The catalogs are now ready. Address
G. VAN PATTEN & SON, SUTTON, NEB.

BRIGGS' ANNUAL DUROC JERSEY SALE
TO BE HELD AT FARM NEAR
CLAY CENTER, NEB., THURSDAY, FEBRUARY 24, '10

45 HEAD An offering made up of 45 head of gilts—a lot that will fully sustain their reputation as being the leading breeders of the state. Some outstanding propositions are offered in daughters of Lincoln Wonder, the great breeding boar of Ohio Chief-Crimson Wonder breeding and out of Miss Norry, Ruby I and Clay Center Belle III. The sires of the balance of the stock are Lincoln Wonder, Cherry Boy, McK.'s Improver, Kant's Improver, Billie K's Model and are bred to Lincoln Wonder, Cherry Boy, McK.'s Improver, Kant's Improver and Briggs' Wonder for March and April farrow. These are the tops of about 100 head of gilts and have been grown in a manner to make useful, breedy sows. Col. Callahan, Auct. Catalogs are now ready and may be had by addressing
GEO. BRIGGS & SONS, CLAY CENTER, NEBRASKA.

McGARTHY'S DUROC JERSEY SOW SALE
AT THE FARM NEAR
HENDERSON, NEB., FRIDAY, FEBRUARY 25, 1910

35 HEAD Consisting of 3 aged sows, 10 yearlings and 22 gilts. A useful, breedy lot of well-grown stock sired by Imp. II., Lincoln Wonder, Ohio Chief, Kant-Be-Beat, Kant's Echo, Cherry Boy, Ohio Chief I Am, McK.'s Improver, Glendale Critic 2d and Beat my Dad, an outstanding breeding boar by Kant-Be-Beat. They are bred to Lincoln Wonder, McK.'s Improver, King Wonder and Beat My Dad. Special attractions appear in lot 1, a sow by Imp. II. out of Garnett and her sister lot 2. Lot 3 is by Ohio Chief out of Royal Lass III. and a valuable sow. No. 4 is a very strong Kant-Be-Beat yearling. Nos. 7, 8, 10, 11, 14, 15, 16, 18 and 19 are also very attractive. Col. Callahan, Auct. Catalogs are ready, giving full details.
CON McGARTHY, Henderson, Neb.
PARTIES FROM A DISTANCE MAY ALSO COME TO YORK.

BIDS SHOULD BE SENT TO FRED S. LARKIN, OF THE HOMESTEAD

BROOKMONT HEREFORDS ODEBOLT, IOWA.

When the Brookmont herd of Hereford cattle was founded, it was with the choicest material that the world could provide. Did anyone else ever go about it by importing more than 300 head from Herefordshire, England, the very fountain head of the breed? That is what Brookmont Farm did and that 300 has grown to 1,000. That greatest of all Hereford bulls, IMP. MARCH ON 76035, the father of the grand March On tribe, is still in service as the chief herd bull.

Write or come and see us.



IMP. MARCH ON 76035.

Write or come and see us.

And now we want to sell bulls, cows or heifers—anything the buyer may want, and as many. They are young cattle, just at the commencement of lives of usefulness and profit. Other leading strains are prominent, and may be had in comparative purity or in the more promising combinations. The blood is right. The cattle are right. Prices will be made right. They have but recently been subjected to the tuberculin test, by competent veterinarians; guaranteed to be absolutely free from tuberculosis.

A. E. COOK, ODEBOLT, IOWA

PFANDER'S GIANT POLAND CHINAS ANNUAL BRED SOW SALE

CLARINDA, IA., SATURDAY, FEBRUARY 26, 1910

42 SOWS

Spring gilts, fall gilts and a few matured sows. Half are by the great and only Long King. Others by Big Prospect, Crescent Tom, Longfellow P., Long Giant, Blue Valley Giant, Big Hadley 2d, Pawnee Prince, etc. They are bred to Long King, Big Hadley 3d, Orange King, Missouri Lad. Send mail bids to C. C. Carlin, of The Homestead. H. S. Duncan, auctioneer. For catalogs address



J. W. PFANDER & SONS, CLARINDA, IOWA.

Maasdam & Wheeler

Breeders and Importers of

PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

SHIRE STALLION FOR SALE

WILLIAMS' Moulton Temple 10363, two years old; chestnut sorrel; sound. Price, \$1,200. He was good enough to win three blue ribbons at the Iowa State Fair, two blue ribbons at the Illinois State Fair and three blue ribbons, two silver cups and a championship at the International.

C. C. WILLIAMS, BUSHNELL, ILLINOIS.

Jacks, Stallions and Mules PUBLIC SALE

Consisting of 20 jacks, 11 stallions, 50 mules.

FEBRUARY 15

Catalog ready after Feb. 1.

Hamilton Bros., Auxvasse, Missouri



DISPERSION SALE

AT

**SUNNY SLOPE FARM
EMPORIA, KAN.,
OF**



THE GREAT SUNNY SLOPE HERD OF HEREFORD CATTLE

TUESDAY, WEDNESDAY AND THURSDAY, **MARCH 1, 2 and 3, 1910**

250 30 two-year-old heifers in calf, 30 yearling heifers, 100 cows from 3 to 8 years old, 30 bulls, 60 calves of both sexes to be sold with their mothers **250**

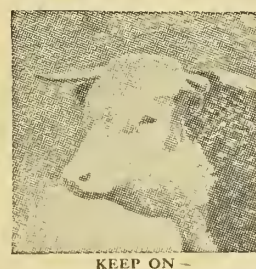
Never before in Hereford history has such an opportunity been offered buyers of pure-bred cattle. The entire show herd is included and the four Great Herd Bulls, Beau Mystic, Expectation, Beau Doncaster and Beau Mystic 11th. Beau Mystic, I believe, is the most valuable Hereford bull in America. He was shown two years at the leading fairs of the country and was never defeated but once, and then he walked to the show ring on three legs. I believe he can defeat any bull in the country in next year's show, and I doubt if any breeder can show as fine a lot of cattle as I will show you on sale day by this bull. It is his ability to produce good ones that makes him valuable rather than his show record.

On March 3d I will sell 25 mares and horses, 30 milk cows, 40 pure-bred Berkshire hogs, 12 sheep, farm machinery and household goods.

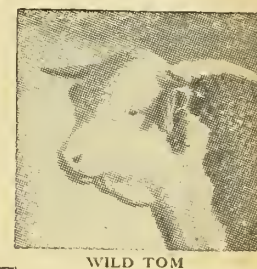
Sunny Slope Farm is the best advertised pure-bred breeding establishment in America, and is situated from a buyer's standpoint as good as any in America. One hundred thousand dollars will not advertise your farm as well as this one has been advertised. It is for sale. Nine hundred and seventy acres for \$60,000. Land adjoining it is selling for \$65 per acre. The farm will be sold at private sale. Everything else at auction. Write for catalog and remember the dates, March 1st, 2d and 3d. Address

**C. A. STANNARD
EMPORIA, KAN.**

Auctioneers--Cols. F. M. Woods, R. E. Edmonson, Geo. P. Bel-lows, Thos. Scofield.



KEEP ON -



WILD TOM

TOO LATE TO CLASSIFY.

50 LARGE-TYPE, BIG-BONED POLAND CHINA SOWS

THESE sows are sired by Hadley, P. W. Giant and Jumbo. They are bred to Hadley and Victor (he by Big Victor, second prize aged boar at Nebraska State Fair, 1909). Choice tried sows, 350 to 400 pounds, \$50 to \$75. Fall yearlings, 300 to 400 pounds, bred to farrow March and April, \$45 to \$75. Spring gilts, bred to Victor for April and May farrow, 200 to 260 pounds, \$32 to \$50. They are heavy-boned, smooth, well-grown sows, sired by \$100 and \$150 boars, bred to the same kind, and as good as are grown. Sold 85 boars and sows this fall at an average of \$40. Shipped to eight states. Sold 1,000 for breeders in seven years. Careful selections made for mail orders. Pedigrees furnished at time of sale.

F. W. MCINTYRE - R. F. D. 5 - RED OAK, IOWA.

40 HEAD DUROC JERSEY BROOD SOWS FOR SALE

SURED by Crimson Critic, I Am Advance, Belle's Chief I Am and other noted boars. Bred to Harding's King of Cols. and my other noted herd boars. 12 fall boar pigs for sale that are show prospects. Write me about these at once. Address **R. J. HARDING, MACEDONIA, IOWA.**

GUERNSEY SALE FEBRUARY 15, '10 FORT ATKINSON, WIS.

4 pure-bred cows, 2 pure-bred bulls, 27 high-grade cows and 36 young heifers. Also 15 pure-bred Poland China brood sows, bred to farrow in March and April.

H. A. MAIN, Fort Atkinson, Wis.

Poland China Bred Sows for Sale

I AM offering a choice lot of Poland China sows and gilts for sale at reasonable prices. Pedigrees furnished with sows. Address **HERMAN BALTZ, Fremont, Nebraska.**

Poland China Bred Sows

I have a few choice bred sows and gilts for sale at private treaty. Address

D. C. LONERGAN, Florence, Nebraska.

Choice Berkshires For Sale

LUSTRE'S Combination J., second-prize boar Iowa State Fair, and gilts sired by him, open or bred; also two tried brood sows at reasonable prices. **ORLANDO JACOBS, MEDIAPOLIS, IOWA.**

FOR SALE Am offering for sale the Hereford bull, **Duke Jr. 326537**, one-year-old. This is an A. No. 1 bull of the low-down type, priced right. Call on or address **Geo. T. Knutson, R. 5, Alden, Iowa.** (Farm 2½ miles from Buckeye.)

NOTICE

50 Holstein Bulls for Sale

20 From A. R. O. dams and rest from dams that are all high-class, registered cows. These bulls are in age from 5 to 14 months; well-grown and first-class individuals, from dams that are kept for profit. These bulls are sired by two sons of Homestead Jr. DeKol, the sire of Grace Fayne 2d's Homestead, world's champion cow. Balance by Johanna Rue, Sarcastic Lad, 12 A. R. O. daughters and close up in breeding of Colantha 4th Johanna. Prices low according to stock. Mention this paper when inquiring. For information, address

L. G. LEGLER, JUDA, WISCONSIN.

PLINY NICHOLS

WEST LIBERTY, IOWA

LIVESTOCK AUCTIONEER

Sales made anywhere. Reasonable terms. I also breed Poland Chinas and Short-horns.

GRATIFY OUR GUERNSEY CHAMPION

Has been sold to head a good herd, but we still have some real good young sires for sale. Let us tell you about them.

FOX BROS., WAUKESHA, WISCONSIN

B. & C.'S COL. Grand champion, Illinois and Iowa, 1909. Crimson Wonder III., grand champion, Nebraska, 1905, and McNeil's Model, champion under year, Ohio, Indiana and Illinois, 1907. Sows all sold. A few good boar pigs. Address **(Ed. A. Baxter, Pawnee, Illinois. R. L. Comer, Carlinville, Illinois.)**

55 Poland China Bred Sows

AT PUBLIC SALE AT

WIOTA, IOWA, THURSDAY, FEB. 17, 1910

WE are putting into this sale a consignment of sows that will require no apology on sale day. They are big, growthy ones, of the true brood sow type, with finish and style that make them look good. Some are prize winners, and others are good enough to show. Twenty are tried brood sows; the others fall yearlings and spring gilts. They are the get of T. N. Challenger, Who, G.'s Perfection, Contractor, Osborne Chief, Sunshine Chief, Large Jericho and G.'s Equal. They are bred to Guy Block, Dorr's Dude, King Meddler and Big Duke. The sale will take place at Mr. Keasy's Franklin Center Stock Farm, two miles south and two miles east of Wiota, and seven miles north of Cumberland. Free transportation from both places on day of sale. Col. J. West Jones, auctioneer. For catalogs, address

A. R. Campbell, Wiota, Ia., or E. D. Keasy, Wiota, Ia.

Stewart's Chester Whites

AT AUCTION

40 HEAD February 24, 1910

J. H. STEWART, OF DICKENS, IOWA, will sell forty head of Chester White gilts at his farm, one and one-half miles northeast of Gillett's Grove and six miles south of Dickens, Iowa, on February 24th. These grand good Chester White gilts are the daughters of White Oak 2d and others. White Oak 2d is the great son of old White Oak, the St. Louis World's Fair champion, and they are bred to farrow in March and April to the service of White Rock, he by Special and he by Joker. His dam is Peerless 2d, she by Combination, and Onward, he by Billy Sunday and he by Dude. His dam was Highland Lily, she by Young Press. If you want bred sows of the choicest of breeding and rarest of individuality, at this sale you will find them. Write for my catalog, which is now ready, for fuller description. Col. W. R. Ritchie will be the auctioneer, with able assistants. Sale in a tent. There will be free transportation from Dickens, Iowa, also from Gillett's Grove, and return.

J. H. STEWART, DICKENS, IOWA.

Big-Type POLAND CHINAS At Auction

60 HEAD AT MARATHON, IOWA, FEB. 24, 1910

We will offer sixty head of bred sows and gilts of the Peter Mouw type, consisting of ten aged sows, seven fall gilts and forty-three spring gilts. The aged sows are the get of Wonder 4th, Dry Creek Chief, Miller's Tecumseh, Miller's Chief Price, Chief Leader, Big Bone, Long Wonder. Fall gilts by Orange Chief 2d and an Expansion-bred hog. The spring gilts by Long Wonder, R.'s Longfellow, Chief Price 2d, Choice, he by Chief Leader; Miller's Happy Tecumseh, Long Prospect and Smooth Longfellow, Big Price and Victor Price, and they are bred to R.'s Longfellow, Orange Chief 3d, Jumbo Price. We will sell more sows in this sale bred by Peter Mouw and John Miller than will be sold in any other sale to be held this year. Attend this sale if you want the big good ones. Free hotel accommodations and free transportation from Marathon, Iowa, to the farm, which is only one mile east of town. W. B. Duncan, James Jensen, Ira Cottingham, auctioneers. For catalog address

RUEBEL BROS., MARATHON, IOWA.

Attention is called to Will Carey's sale, Fonda, Iowa, February 23d; M. P. Hancher's sale, at Rolfe, Iowa, February 25th.

HANCHER'S BIG FOUR POLANDS

AT AUCTION

50 head big type, big bone, big litters, big quality, at my farm adjoining ROLFE, IA., FEB. 25

There will be six tried sows, three fall gilts, forty-one spring gilts in the offering. The aged sows are the daughters of Long Meter, Chief Tecumseh 4th, Crow's Model. Fall gilts are sired by Big Bone and Our Dude. Spring gilts are the daughters of Our Dude, Columbia Chief 3d, Smooth Wonder 2d, Big Bone, Hadley's Expansion, and are bred safe to farrow in March and April to the service of Chief Price 2d, Columbia Chief 3d and Big Wonder. This will be the best offering of the big Poland China type hogs that I have ever offered. Spring gilts will weigh from 300 to 350 pounds or better. Attend my sale and you will not be disappointed in the offering. Free hotel accommodations at the Clifford Hotel. Free transportation to the farm. W. B. Duncan and Ira Cottingham, auctioneers. For catalog write to

M. P. HANCHER, ROLFE, IOWA.

Attention is called to Will Carey's sale, February 23d, at Fonda, and Ruebel Bros.' at Marathon, Iowa, February 24th.

DISPERSION SALE OF HIGH-CLASS, DOUBLE-STANDARD

POLLED DURHAMS

THE PROPERTY OF J. J. HOLLAND

At the Farm, 2 1/2 Miles South of Oxford, Iowa, at One O'Clock P. M.

TUESDAY, FEBRUARY 15, '10

C. C. Keil, of Grinnell, Iowa; Col. C. F. Doty, of Oxford, Iowa, Aucts.

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LAST WINTER TERM

OPENS FEBRUARY 14, 1910.

We had at our winter terms students from New York, Pennsylvania, Connecticut, Ohio, Indiana, Michigan, Wisconsin, Illinois, Iowa, Minnesota, North Dakota, South Dakota, Nebraska, Kansas, Missouri, Oklahoma, Colorado and California. Thorough instruction and competent instructors is the secret of the success of our graduates. Write today for catalog. 2856-2858 Washington Blvd., CHICAGO.

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Fine Stock Auctioneer

Duroc Jersey and Poland China hogs and Short-horn cattle my specialty. My customers my references. Ask them. Write me.

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Glendale, Kentucky,

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If you want to buy or sell a Farm, City Property or Subdivision, no matter where located, write for terms and dates.

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LIVE STOCK AUCTIONEER

I AM thoroughly posted on all breeds of live stock. Breeder of Red Polled cattle and Duroc Jersey hogs. Write for terms and dates.

W. K. HENSS, WAYLAND, IA.

LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

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SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed. W. F. STRATTON, CAMBRIDGE, IOWA, Breeder Short-horn cattle and Duroc Jersey swine.

H. S. and W. B. DUNCAN

CLEARFIELD, IOWA.

LIVE STOCK AUCTIONEERS

Thoroughly posted in pedigrees and sales cried anywhere. Write us for dates.

C. C. KEIL, Auctioneer, GRINNELL, IOWA.

PEDIGREED STOCK A SPECIALTY.

20 YEARS' experience as breeder and auctioneer. Talk English and German. Write me at once.

O. L. MOSSMAN, MASON CITY, IA.

LIVE STOCK AUCTIONEER

Thoroughly posted as to pedigrees and values. Write for dates. Terms reasonable.

Geo. W. Dykes

Live Stock Auctioneer. DANA, ILL.

SILAS IGO, Indianola, Iowa

Live Stock Auctioneer. Write me for date.

Geo. P. Bellows

Auctioneer Pedigreed Live Stock Maryville, Mo.

W. D. STOLLER, Auctioneer

Live Stock a specialty. Address R. 6, Vinton, Ia.

A. C. Manifold

Auctioneer Turkio, Mo. Pure bred sales specialty

THEO. MARTIN

Live Stock Auctioneer. Bellevue, Iowa.

When writing to advertisers please mention this paper.

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STERLING, ILLINOIS.

Fifteen years' experience selling live stock.

Write for Terms and Dates.



N. G. Kraschel

MACON, ILL.

Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.



C. G. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere. Reasonable terms. Have pleased others; can please you.

Write for Dates.



FRED REPERT,

DECATUR, IND.

Live Stock Auctioneer.

Cattle Sales a

Specialty

Write for Dates and Terms.

LIVE STOCK ARTISTS.

A. V. LOCK, REMINGTON, INDIANA.

Live Stock Artist. Write me.

JERSEY CATTLE.

BULL BARGAINS

Calves Yearlings Two-year-olds All sired by Pedro's Golden Fern Write for detailed descriptions

Better still come and see for yourself.

SUNNY PEAK FARM, Elm Grove, Wis.

King Sappho King Jerseys

WE offer a few mature cows for breeding purposes, a few young cows and heifers, and a magnificent lot of young bulls sired by King Sappho King 65262 and Loretta D's Champion Son 77002.

J. Q. Emery & Son, Edgerton, Wisconsin.

VALLEY FARM

IS offering a few yearling bulls, sired by Blue Bell's Eminent 74774. Also a few bull calves. These are a fine bunch and will be sold cheap. For particulars, write Fred Stuble, Black Earth, Wis.

AYRSHIRE CATTLE.

Ayrshire Cattle

YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. Fred Tschudy & Sons, Monroeville, Wis.

GUERNSEY CATTLE.

BROOK HILL FARM

Pure-Bred Guernseys

FOR SALE Bulls from three to fifteen months of age. Dams have made from four to seven hundred pounds of butter in one year, official test. Send for sale list.

David W. Williams, Supt., GENESSEE DEPOT, WISCONSIN.

GUERNSEY CHAMPION A BREEDER

GRATIFY, first-prize winner at Iowa, Alaska, Yukon, and the fourth at National Dairy Show, and second at Minnesota and Wisconsin in 1909, as a two-year-old and junior champion at Wisconsin in 1908, as a yearling, is for sale. He is an excellent individual, a sure breeder, and should head a good herd. Price \$250. Fox Bros., Waukegan, Wis.

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10 BULLS**

THE most desirable offering ever made from Wayside. The bull consignment includes Scotch bulls fit to head any herd in the country. It is doubtful if any breeder has offered such a bunch of bulls—products of his own herd—in recent years, as this one. Sons and daughters of Hopeful Knight and Money Musk predominate. Write for catalog, mentioning The Homestead.

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CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fame 197980, and bred to my Cruickshank Flora bull, Narcissus King 239586. One extra good bull 16 months old by Royal Fame; 14 younger bulls, mostly by Narcissus King. A choice lot to select from at bargain prices; singly or car load. Address **R. J. COX, GRINNELL, IOWA.**

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TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls. Headlight and Brawley Lad. For description and prices, address **W. W. VAUGHN, MARION, IOWA.**

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2 Pure Scotch bulls for sale; 12 to 16 months old; 2 all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490, a red four-year-old, by the great March Knight, T. A. Davenport, Belmont, Ia.

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FROM October calves to 2 year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Rosemary, Count Commodore and other Scotch sires, two miles from West Branch, Iowa. **T. Smith & Sons, West Branch, Iowa.**

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ALL THE MASTODON BOARS--ALL THE MASTODON SOWS

5 BOARS--40 SOWS AND GILTS

I have sold my farm and the entire herd of MASTODON POLANDS will sell at public auction on the above date, and I want every man that is interested in the MASTODON POLANDS to attend this sale and make their own selection of the BIGGEST TYPE HOGS IN AMERICA. This sale will contain sows that I have absolutely refused to price before. These sows are not a draft lot, but are the ones that have been selected through a number of years of breeding of the big-type hogs. THESE ARE THE SOWS THAT HAVE MADE THE MASTODON HERD WHAT IT IS, and any one of them will double the earning power of your herd in two years' time.



All these sows are safe in pig to THE MASTODON FOUR: A WONDER 107353, Columbia Chief 2d 91499, Mastodon Chief 129083, King Mastodon 134121. There will also be offered all of my herd boars, the equal of which you cannot find in any other herd in the United States. THIS IS THE CHANCE OF YOUR LIFE TO HEAD YOUR HERD WITH A 1,000-POUND BOAR. A WONDER 107353, THE BIGGEST POLAND CHINA BOAR ON EARTH, will be offered in this sale in breeding condition, a half a ton hog. Columbia Chief 2d 91499 will show you more size and quality than you have ever seen before in one hog. King Mastodon 134121, the young boar that is a prospect for a half a ton boar and the biggest and the best grandson of Chief Price that I have ever seen. Mastodon Chief 129083, the Mastodon boar that has sired more big litters of big pigs than any other boar of his age. THE FOUR BEST MASTODON BOARS and THE FOUR BEST MASTODON SOWS in the United States will be in this sale. SEND FOR MY CATALOG TODAY. It contains the breeding and the descriptions of the great boars and sows that I am offering you. Arrange to attend this sale and SEE THE ORIGINAL MASTODONS DISPERSE. Col. H. S. Duncan, Auct. C. C. Carlin, field man for The Homestead.

LAND CHINA BOAR ON EARTH, will be offered in this sale in breeding condition, a half a ton hog. Columbia Chief 2d 91499 will show you more size and quality than you have ever seen before in one hog. King Mastodon 134121, the young boar that is a prospect for a half a ton boar and the biggest and the best grandson of Chief Price that I have ever seen. Mastodon Chief 129083, the Mastodon boar that has sired more big litters of big pigs than any other boar of his age. THE FOUR BEST MASTODON BOARS and THE FOUR BEST MASTODON SOWS in the United States will be in this sale. SEND FOR MY CATALOG TODAY. It contains the breeding and the descriptions of the great boars and sows that I am offering you. Arrange to attend this sale and SEE THE ORIGINAL MASTODONS DISPERSE. Col. H. S. Duncan, Auct. C. C. Carlin, field man for The Homestead.

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Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$650 each. **A. Lathier Wilson, Creston, Iowa.**



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SPECIAL NOTICE

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Come to our farm and let us show you more high-class horses with quality and at LOWER PRICES than can be bought any other place. Best guarantee, good insurance and square treatment. Come early while you can get a big selection.

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IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.

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2 IMPORTATIONS, 1909, 2

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HORSES PERCHERONS, Belgians, German Coachers

AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

HORSES AND JACKS.

LOONAN-GLENNY-REDENIUS

SALE OF IMPORTED AND AMERICAN-BRED

PERCHERON Stallions and Mares

IN THE SALE PAVILION

WATERLOO, IA., THURSDAY, FEB. 17th

55 Head are listed for this sale, consisting 55 of 45 mares and 10 Stallions

Among the stallions cataloged is IMP. HAMECON, imported last season and a black two-year-old. He is of the right quality and conformation with the best of bone and feet. He will develop into a ton horse at maturity. The balance of the stallions are two and three-year-olds, blacks and grays, with quality, style and action.

THE OFFERING OF MARES IS ONE OF OUTSTANDING CHARACTER

Imported and home-bred mares are offered that are bred to the great stallion, SUPERIOR 40605, and some of his get are also included in the sale. SUPERIOR has proven himself to be one of the greatest sires and at the INTERNATIONAL of 1908 his get made a wonderful record. Blue Ribbons, Gold Medals, and one Diploma were won on the get of this grand stallion, which show the kind of a sire he is.

THIRTY MARES IN THIS OFFERING ARE BRED TO SUPERIOR

If you want the best in the PERCHERON breed this sale affords the opportunity to buy them. It is a high-class consignment and if interested send in your name and let us send you the catalog. It is profusely illustrated with an exact likeness of some of the grand mares of this offering. There are 15 mares going in the sale that will weigh 15 tons. There are 12 matched pairs. Write for catalog, mentioning this paper. Address either

JAMES LOONAN, Waterloo, Ia., T. F. GLENNY, Hudson, Ia., or H. REDENIUS, Dike, Iowa.

COL. CAREY M. JONES and WM. HOLLAND, Auctioneers.

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS



WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

FORD & HARRINGTON, PARKER, SOUTH DAKOTA. FAIRBURY, ILLINOIS.

CLYDESDALE MARES

I have 60 head of imported Canadian-bred and home-bred registered Clydesdale mares. All have been wintered in Iowa and are thoroughly acclimated and ready for hard work. Big, strong, thrifty brood mares, three to six years old, weighing 1,600 to 1,800 pounds, and safe in foal. Public sale of 40 head, March 2, 1910. Watch for announcement.

LAKE SIDE FARM
Len H. Lamar, Storm Lake, Iowa.

DUNHAM'S PERCHERONS

Next large importation—stallions and mares, Feb. 10th, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses—horses with bone, quality, size, action and best breeding, stallions or mares, if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit OAK LAWN Catalog shows the place and the horses. W. S., J. B. & B. Dunham, Wayne, Ill.

PERCHERON MARES BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

C. G. GOOD, Ogdén, Iowa.



MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON, BATAVIA, IOWA.



PERCHERONS AND BELGIANS

THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY."

Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.

W. J. BUTLER, OTTAWA, ILLINOIS. Long Distance Phone.

Shetland Ponies The cream of Scotland; any kind you want; we sell them reasonable. CLARKE BROS., Auburn, Neb.

CHESNUT STUD FARM PERCHERON STALLIONS AND MARES

TEN head of stallions and mares for sale, ranging from 2 to 5 years of age. Home-bred horses, \$500 to \$1,000. Write, or come and see me. Address

L. C. BARNETT, INDIANOLA, IOWA.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$300 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

HORSES AND JACKS.

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The above cut shows you a photograph of sixty-nine of the PERCHERON, SHIRE and BELGIAN stallions now in our stables. You are missing the opportunity of a lifetime if you do not send and get OUR NEW 1910 CATALOG before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909, and are all in prime condition to go out on the stand and do a big season's service. They are nearly all solid colors; range in age from three to six years; in weight from 1,700 to 2,300 pounds. They are the big-boned, drafty type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a government bond. GET OUR CATALOG. It is free for the asking.

Watson, Woods Bros. & Kelly Co. - - Lincoln, Nebraska.



"HOWDY"

Cummin' to our great sale, ain't you?
It's our fourth and best.

FINLEY'S GREATEST JACK AND JENNET SALE HIGGINSVILLE, MO., MONDAY, FEBRUARY 28TH

30 MAMMOTH JACKS
15 MAMMOTH BRED JENNETS, FROM THREE TO SIX YEARS OLD

SEE Midland King, the great Kentucky six-year-old. See the four jacks by Dr. McCord, Kentucky's greatest show and breeding jack, that now heads my herd. I have never had such a string of big black jacks to offer. They are a great-boned lot, with good heads and ears. Send for my illustrated catalog; it tells the story. Higginsville is 55 miles east of Kansas City, on C. & A. and M. P. Railways.

W. J. FINLEY, HIGGINSVILLE, MISSOURI.

Cols. Harriman and Sparks and Other Auctioneers.

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES



We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

PERCHERONS

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of this year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA.
C.O. Keiser, Keota, Iowa

LIMESTONE VALLEY FARM'S
33d and Greatest Sale
TWO DAYS

L. M. MONSEES & SONS
Smithton, Missouri
TWO DAYS



Limestone
Mammoth
298



AT THE TOP
OF THE LADDER



Orphan
Boy
969

FIRST DAY
TUESDAY,
March 1, '10

20 HEAD

of the best aged jacks you
ever saw together sell.

BARITONE
MAMMOTH

by Orphan Boy and
out of a Lime-
stone Mammoth
dam is among
them.

23 HIGH-CLASS

registered
saddle-bred
horses also
sell; our entire
stud, Lime-
stone Artist
and June
King in-
cluded.
Send for
beautiful
catalog.

SECONDDAY
WEDNESDAY,
March 2, '10

LIMESTONE
MAMMOTH
AND
ORPHAN
BOY DAY

40 HEAD

of young jacks and
jennets sired by the
two greatest jacks
in the world. See
the Limestone
Mammoth jennets
in foal to the
great Orphan
Boy. Seven
have colts at
foot by Orphan
Boy. Special
train from Se-
dalia and
return
each day
of sale.
Send for
catalog.

1909	\$56850
1908	\$47425
1907	\$46720
1906	\$38530
1905	\$36040
1904	\$35480
1903	\$35275
1902	\$27960
1901	\$26010
1900	\$22730
1899	\$20620
1898	\$14380
1897	\$17360
1896	\$18225
1895	\$19465
1894	\$18720
1893	\$20375
1892	\$21210
1891	\$16805
1890	\$15490
1889	\$15105
1888	\$14915
1887	\$14020
1886	\$14605
1885	\$12905
1884	\$12010
1883	\$11320
1882	\$9750
1881	\$8490



THE START 1870.
OVR ANNUAL SALES

HORSES.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians so we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners.

We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON - - **WENONA, ILLINOIS.**

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

PETTY BROS.' ANNUAL JACK AND JENNET SALE SEDALIA, MO., THURSDAY, MARCH 3 25---MAMMOTH JACKS---25

Nine better than 15½ hands high, 18 better than 15 hands high, all blacks with mealy points; 15 jennets bred to Orphan Boy, Prince Giant and Tennessee Winner.

TENNESSEE KING, Champion and grand champion jack at the Missouri State Fair in 1909, and seven other winners at the same show are included. We won first, second and fourth on jacks three years old, first and third on jacks two years old, first and second on jacks one year old.

Tennessee King, Orphan Boy and Prince Giant have been bred to the 15 jennets we sell. The offering is the best we have ever made and we sell more quality jacks of good ages than we have ever owned at one time. You will not be disappointed if you come to the sale expecting to see something real good.

Sale at our farm two miles from Sedalia. Every arrangement for your comfort has been arranged for. Send for our illustrated catalog, mentioning this paper. Auctioneers—Harriman, Sparks and others.

PETTY BROS., SEDALIA, MISSOURI.

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Percheron Stallions

WITH SIZE AND QUALITY

PLENTY of bone and good action. That's my specialty, and I can suit the man who wants a good stallion, as both the horses and my prices are right. **COME TO SEE THEM** and you'll buy, because you'll not be able to get better bargains anywhere else. I have a choice lot of stallions for sale now—home-bred and imported horses, carefully selected in France. Inspection especially asked. Notify me and I'll meet you at Ames. Farm 7 miles N. E. of Ames.

S. B. FREY, AMES, IOWA.



Ensign's PERCHERONS

OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write

S. A. ENSIGN, CLEGHORN, IOWA
C. A. PINGEON, Sale Manager.



The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on imported Clydesdale Stallions and Mares; also a few choice bred hackneys, sired by the London champion, Copper King. Will show you the best strug of Clydesdale stallions and mares in the U. S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C., R. I. & P. Railway, forty miles northwest of Peoria, Illinois.

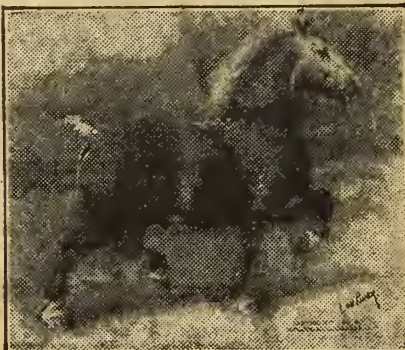


OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality. Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

HOMEWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron, Belgian and Shire STALLIONS AND MARES

SIXTY head of stallions arrived August 10th. 40 head of Percheron mares arrived on Nov. 5th. We also have a choice selection of American-bred Percheron mares, fillies and stud colts. If in the market for a first-class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. Our Motto: Prices right, terms to suit, satisfaction guaranteed. No misrepresentations or disappointment on arrival. Write our home bank for reference. Homewood is on the main line Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly from the city. Bell 'phone Homewood 204.

Don't fail to see our exhibit of 60 head at the coming International.
S. METZ & SONS, HOMEWOOD, ILLINOIS.

Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1909 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 13th. Ernest L. Humbert & Son, Corning, Ia.



FRANK IAMS

"Peaches-and-cream" imported stallions and mares are "rosy ripe," in the "pink of condition," and all must positively be sold. Get on to "Iams' money-saving game." Buy stallions and mares today. Get stallions ready for "spring business." "Ikey Boy," be the "early bird." They get the business and choice of Iams' "top notchers." "Leave your happy home," visit the "peaches-and-cream" stallion man, and save \$1,000. Every day is "bargain day," a "horse-show day," and a day of "profit and pleasure" at Frank Iams' "Stallion and Mare Emporium" and largest in the United States at St. Paul, Neb. You will positively see here more imported stallions and mares, "top notchers," "Medal winners," "ribbon grabbers," and every-day "business" horses, than at any "horse plant" in the United States, and double all others in Nebraska. Iams backs up his "ads" and catalog with a "\$500 bonus" (no others do this). He gives five of the best banks in Nebraska for reference. Iams'

170 Kings and Queens of Percherons and Belgians

are all "top notchers," no International "tail ends," no "auction stuff," no "pick-ups" or "peddlers' horses," but the best bunch of big-boned, big drafters of quality and finish in the United States, and in the "pink of condition." Iams is a "big fly in the ointment" in the "horse business." He "sets the pace" for all competitors. Iams leads the procession. "Ikey Boy," buy an imported stallion and two mares of Iams, the horseman that "does things." Get into Iams' Band Wagon; don't be "side tracked" by any "hammer knockers." "Ikey Boy," "waltz me around once again" and land me at Iams' "four importing barns" and box office filled to the roof with big "black boys and girls" at bargain prices. Iams is the only horseman that really has "the goods" as advertised. 1910 promises to be the most prosperous year in history. Mr. "Stand Patter," "come on down town."

All the World Knows IAMS, the big Horseman,

He has a loving feeling for horse buyers. He sold sixty imported stallions and mares to "Iowa boys" in 1909, and 150 "top notchers" to the boys with brains in other states. Iams sells \$4,000 imported stallions at \$1,000 and \$1,400 (some higher), imported mares in foal, 1,700 to 2,400 pounds, at \$700 to \$1,000; many medal winners. Iams sells the "wide-as-a-wagon" kind that don't need to be "peddled" or put on the "auction block" to "catch suckers." Iams is a horseman in a class by himself. He is selling more horses yearly. Ikey Boy, don't be the lobster; "be the wise guy, after all."



Try Iams, the "peaches-and-cream" stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a "warm spot" in his heart for all stallion buyers.

He Saved \$300,000 to Stallion Buyers

in 1909 by selling stallions direct to the people, saving all middlemen's profits. Iams is an expert horseman. He knows the "top notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin'-and-a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick stallion salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 or \$4,000. "Son Ikey," form your own "stallion company." Visit Iams' town of barns filled to the roof with big, "black boys," the "best ever," "Iams' kind." His 170 stallions and mares, two to six years old, weight 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent ton horses, are a horse show better than the "International."

Iams' 1910 Horse Catalog is an "Eye Opener"

a "bunch of gold," the "book of books" to stallion and mare buyers. It is full of truths, facts, "business propositions," and 115 illustrations of the best and largest imported stallions and mares in the United States, "true to life"—the "wide-as-a-wagon drafters," the real "peaches and cream" stallions. It shows the "tricks" of "stallion peddlers" and "auction block" salesmen. It is the finest, most elaborate, and original, up-to-date book in the world. Iams' twenty-eight years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on honor. A boy or lady can buy as cheap as a man and get a better horse of Iams, the "square-deal" horseman. If you visit him and don't find every statement in his advertisement or catalog as represented, you can get the \$500 that he hangs up. Iams guarantees to sell you a

Better Stallion at \$1,000 and \$1,400

(few higher) than are being sold to farmers' stock companies at \$2,500 to \$4,000, with 60 per cent breeding guarantee, with freight and fare paid by Iams. He can furnish buyers \$1,500 insurance. You say, "Why can Iams sell better stallions at half the price of others?" Iams buys and sells every stallion himself. He buys stallions by special trainload, 200 at a time. He speaks the languages, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick" salesman \$100 to \$1,000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions. He sells stallions by "hot" advertising and having "the goods" to make every statement good. Iams sells stallions so good that they do not need a "slick" peddler or the "auction block" to sell them.

IAMS WILL SAVE YOU \$1,000 IN COMMISSIONS

and middlemen's profits. "Papa, dear," buy me a pair of imported mares of Iams. They will raise me colts at six months old that will sell for \$500, and be good for twenty years. Iams has the kind that lay these "golden eggs." Don't let one of these "auction men" "hand you a lemon" with one of these so-called American full bloods with questionable breeding. Iams' "selling clothes" fit all buyers. Write for Iams' million dollar horse catalog. Iams' guarantee is backed by a half million dollars

ST. PAUL, NEBRASKA.

HORSES AND JACKS.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

THIRTEENTH IMPORTATION SINCE AUGUST, 1908, ARRIVED JANUARY 25, 1910.

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in THE WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.

IF YOU WANT TO BUY A STALLION

EITHER

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any banker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer.

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. for the asking. Address BOX 63.

Belgians and Percherons

Second importation for 1909, sixty head, arrived August 10th; third importation, thirty head, December 8th

120 STALLIONS AND MARES

Upon my farms; my four barns full. Eight miles west of Cedar Rapids; two railroads; electric car every hour.

SEND FOR NEW CATALOG

HENRY LEFEBURE, FAIRFAX, IOWA.



M. L. AYRES, SHENANDOAH, IOWA

Thirty Years a Breeder and Importer of

PERCHERON HORSES

A FINE selection of young two and three-year-old home-bred stallions for sale. The noted Brilliant bred stallion, BLANDE 36577, at head of stud. Anyone looking for a herd heading stallion will do well to patronize me. For bone, size and quality our stallions are unsurpassed. 125 to 150 head of horses on the place all the time. Come and see them or write for full particulars, mentioning The Homestead.

SPECIAL PRICES FOR FORTY DAYS

50---IMPORTED STALLIONS AND MARES---50

To make room for an early importation I will make special prices on a stable full of high-class Shire stallions. The weighty sort, 1,800 to 2,050, three and four years, best of legs and feet; no woolly legs nor fatty fat. Write me for particulars.

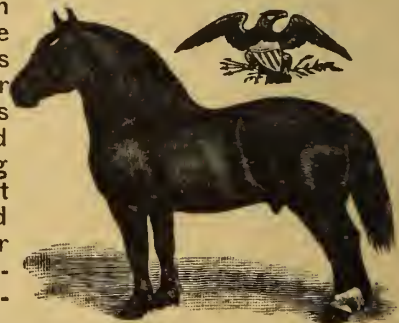
GEO. E. BROWN, Aurora, Ill.

THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October, one in November, another shipment arrived about the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

A CLYDESDALE SPECIALIST CATALOG

If you have or ever expect to own a Clydesdale, or if interested in this firm, send today. As, ultimately, you will want to come to the headquarters of the breed to buy, it will be your gain to come now.

OUR BOOK WILL SHOW YOU WHY

McLAY BROS., JANESVILLE, WISCONSIN.

New Importation of

Percheron, Shire and Belgian Stallions

EXTR weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.

When Writing to Advertisers Please Mention This Paper

CHESTER WHITE SWINE.

Iowa Herd of Improved Chester White Swine

40 Aged sows for sale, reasonable, sired by such noted boars as Monarch Jr., Jerry S., Captain, Col. Sutton, Chief Commander and Allright. These sows will be bred to White Rock and Christopher 1st; latter won first and champion, Iowa State Fair, 1908; first and champion, Nebraska and Illinois State Fairs, 1908. Also two aged boars and a number of spring males and gilts. If in need of anything in this line, write me today or visit my herd. I ship on approval; if not satisfied, no sale. Mention Homestead. Thos. F. Kent (Successor to Geo. H. Lawshe), R. 2, Walnut, Iowa.

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 2d 5465, champion Iowa State Fair, 1909, and Minnesota State Fair, 1908; and Modelle 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented. W. F. HEMMERLING, DIKE, IOWA.

O. I. C. THE WORLD'S BEST HOGS
Bred Gilts and Sows
REGISTERED FREE

Roomy, growthy, strong, prolific, stylish. Breeding and prices right. Write me today. I. M. FISHER, Box H, Hastings, Nebraska.

Crosier's Choice O. I. C.'s

AM offering the strongest lot of spring boars sired by Kerr Dixon and Kerr Solomon, and out of Kerr Garnett, White Oaks and other equally as well bred sows. Get price and description. Address Chas. W. Crosier - Juniata, Nebraska.

BROOD SOWS—Reserving nothing but the aged sows; will let best stuff I have raised. Bred to such boars as Joker, that has won more premiums than any hog living or dead. A "Triumph" hog that sold for the largest price of any hog of the breed. Weighed at 19 months, 720 lbs., and two extra good young hogs. J. H. Mahannah, North English, Iowa.

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address S. J. Philson, Harlan, Iowa.

CHAMPION CHESTER WHITE SWINE

Write me for choice stock of either sex for breeding stock, and show stock, a specialty. F. P. WHITE, NEW HAMPTON, IOWA.

SCARFF'S O. I. C.'s

AM offering a fine bunch of O. I. C. males and gilts with extra length and bone, sired by sweepstakes boar, Norway Chief, and Ohio Chief. Prices \$20 and up. Write for descriptions. J. T. SCARFF - SALEM, IOWA.

INTERNATIONAL HERD OF CHESTER WHITES

BOARS all sold. Have a fine lot of yearlings and gilts safe in pig to as good boars as money can buy. Anything you want sent on approval. J. L. BARBER, R. 3, HARLAN, IOWA.

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

MEHRING choice O. I. C., strong-boned, smooth, well-quartered gilts for sale; some fine Shropshire ewes; low price. H. C. Mehring, Manson, Ia.

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE



My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.



WAYSIDE HAMPSHIRE

WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead. MIKE SHARP - COAL VALLEY, ILL.

STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, E. C. STONE, ARMSTRONG, ILL.

HAMPSHIRE SWINE

Stock of all ages for sale and of fashionable families. Write GEO. LIPPERT Magnolia, Illinois



We Have for Sale

Spring boars ready for service, sows either bred or open, young pigs in pairs or trios no kin, a fine bunch of gilts either bred for spring or open; prices reasonable. Write us before you buy. L. C. MILLER & SON, R. 2, Canton, Illinois.

When writing to advertisers please mention this paper.

Mear's Chester Whites

4 fall boars and a great string of pigs by

NEPONSET ED. 16711

Are ready to ship any day. All are strictly high-class. Write or come.

E. L. MEAR, LAMAR, MO.

AMERICAN HERD OF IMPROVED
CHESTER WHITES

Thirty choice spring gilts for sale, bred to Attractor 19289, a boar of extra length and bone, for March and April farrow. Call and inspect them or write for prices and descriptions.

ALDEN ANDERSON, RADCLIFFE, IOWA.

25 FALL PIGS
FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Aledo Belle and Delta Girl. These pigs will be priced worth the money.

E. L. NAGLE & SON, Deep River, Iowa.

25 Chester White
BRED GILTS

FOR SALE at private treaty. Sired by Neponset Boy, Mear's Medium and Mike by O. K. Mikado. These sows are bred for March and April farrow. Prices reasonable.

D. H. Lewis, Geneseo, Ill.

CHESTER WHITE BRED SOWS

GROWTHY spring gilts, from prolific families that raise big pigs and lots of them, bred for March and April litters. Price right. Stock shipped on approval. J. S. Kennedy, Blackton, Iowa.

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa

REMINGTON'S BIG-TYPE

Poland China Brood Sows

40 Head--20 Yearling and Matured Sows--20 Gilts
Tekamah, Nebraska, February 15, 1910

I AM the oldest breeder of big-type Poland Chinas in Nebraska, and if you want sows from the fountain strains, come to my sale. The blood of Chief Tecumseh 3d, Big Hadley and Chief Price predominates in my herd. Just write and get sale catalog and please mention Homestead. Col. H. S. Duncan, Auct.

O. N. REMINGTON, TEKAMAH, NEBRASKA.

DRALLE'S POLAND CHINAS
DISPERSION OF
50 HEAD Struble, Iowa, Feb. 18, 1910

ON account of selling my farm and going away, I will disperse my entire herd of Poland Chinas, consisting of 11 tried sows, 10 fall gilts and 29 spring gilts. The aged sows are the daughters of L.'s Nemo Dude, Empire Chief 2d, Chief Perfection 2d and Pilatus Chief. The fall sows are by Columbia Chief 2d, Pilatus Chief 2d; spring gilts are the daughters of Calypso, I Am The Dude, Pilatus Chief Image, and bred to Big Chief, I Am The Dude and Calypso. Col. J. A. Benson, auct. For catalog, address

FRED DRALLE, STRUBLE, IOWA.

POLAND CHINA SWINE.

WELLMAN HERD OF POLAND CHINA HOGS
AND SHORT-HORN CATTLE.

25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd headers a specialty. 10 head of choice young bulls, 8 to 16 months old; all deep reds; sired by Masterlode 265763, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address C. F. SHAFFER, R. R. 4, WELLMAN, IOWA.

FIFTY LARGE-TYPE, BIG-BONED BRED SOWS
25 EXTRA GOOD BOARS

TRIED sows, fall yearlings and spring gilts, sired by P. W. Giant, Hadley, Jumbo and Long King. Bred for March, April and May farrow to Hadley, Jumbo and Victor. Last named boar sired by Big Victor, second aged boar at Lincoln, 1909. They are smooth and well grown and in fine condition. Sold 900 head in seven years; shipped to eight states, many on mail order, with perfect satisfaction to buyers. Can furnish testimonials from all buyers. My herd boars are the tops of the best herds of the big type. Farm 1½ miles north of town. Pedigrees free of sale. Write name and address plainly to F. W. MCINTYRE, Route 5, RED OAK, IOWA.

PODENDORF'S BIG-TYPE

I AM offering a splendid lot of strictly big-type, with quality combined, Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.

Poland China Bred Sows A. J. PODENDORF, LOGAN, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. HELD BROS., HINTON, IOWA.

50 Big-Type, Big-Boned Bred Sows

WE are offering 50 head of extra fine, big-type, big-boned, quality kind. These are sired by our invincible trio of big boars, viz., W.'s Major, 45237, Young Look 4772, Pawnee Price 47721, and bred to above-named boars and a grandson of Grand Look and Expansion. Twenty-one sows farrowed 210 pigs in 1909. For size, quality and prolificacy, these cannot be beaten. Guaranteed as described. Priced right. Call or write. WILLIAMS BROS., Route 3, VILLASCA, IOWA.

OAKSIDE HERD of "Monster Pattern"

POLAND CHINAS

HERD headed by Monster Pattern (weight 360 pounds at seven and one-half months old, 800 pounds yearling, eleven-inch bone), Oakside Chief (750 pounds yearling, 900 pounds at maturity). Herd sows large and prolific. Open and bred sows for sale at very close prices. Ask for catalog and get posted. There is a "tip" in it to every prospective buyer. Direct shipping facilities. Address A. S. JUCKETT & SON, Oakside Farm, Route 2, Fremont, Nebraska.

Oakside Farm, Route 2, Fremont, Nebraska.

ELLERBROEK'S POLAND CHINAS

50 Bred spring and fall gilts of the large-boned, lengthy type. These gilts are bred to Giant 2d 151933, A Wonder 14321, Big Bone 2d 151743. Their sires are A Wonder Next 149557, A Wonder 143421, Long Price 2d 146679, and others. Their dams are by Chief Price, Longfellow 3d, A Wonder 107353, etc. Come and see my stock or let me know your wants. Farm adjoining 3 railroads, 2 blocks from depot.

PETER ELLERBROEK, SHELDON, IOWA

Herd Boar For Sale

MY Poland China herd boar, Chieftain 51221, for sale at reasonable price. Just what you have been looking for. Also nice bunch of fall pigs, boars and gilts. I can furnish them in pairs not akin at \$15 each for the next 30 days. These pigs are smooth and of heavy bone, out of large sows; some sired by Big Price by Pawnee Lad. Others by Chieftain, the boar offered for sale.

H. FESSENMEYER, CLARINDA, IOWA.

20 Head of Bred Gilts

OF the big type, bred to Big Price 154369, one of the good big ones. A Chief Price bred hog, with size and quality galore. Prices right.

SCHAIN & KEEP, ATLANTIC, IOWA.

Poland China Bred Sows

WE have for sale some choice, tried, aged sows, bred for March and April farrow; also 25 growthy last March gilts, sired by several different herd boars, bred for March farrow. Write for description and prices. Bridgford & Nesbitt, R. 3, Aledo, Ill.

POLAND CHINAS

FORTY BRED SOWS—BIG TYPE

BIG-TYPE Poland with big-type blood lines sired by Napoleon Chief 84169 and bred to Corn Belt Expansion 153155 for March and April farrow. Write for prices and des. C. K. Hanson, Nashua, Ia.

Schmieder's Big Poland Sows

A FEW choice bred sows and gilts, bred to Schmieder's Big Expansion 154731 and King Corrector; sired by Large Dude 116965 and King Corrector. JOHN SCHMIEDER, REMSEN, IOWA.

DUROC JERSEY SWINE.

GOLDEN MODEL heads herd, assisted by Advancer 1st. Will sell 8 head Golden Model sows in the Olson Bros. sale at Woodward, Ia., Jan. 31st, bred to Advancer 1st. Five are litter sisters to my show herd of 1909, which won 11 ribbons at Iowa, Iowa Interstate, Neb., Minn., Wis. State Fairs; 4 1st, 3 2d, 2 4th and 2 5th prizes. O. A. Olson, Madrid, Iowa.

J. D. Wright, West Liberty, Ia.

OFFERS spring pigs of either sex at bargain prices. Fashionable families. Individual excellence to suit discriminating buyers. Write for prices and descriptions or visit herd.

BRED sows for sale; safe in pig by Crimson Rambler, Model Chief 9th and Crimson King. Prices reasonable; sows guaranteed. Jno. Justice, Ankeny, Ia.

DUROC bred gilts, sired by Ponca Chief by Belle's Chief; not large, as 1 have been short of feed. Priced right. F. A. Ham, Saronville, Nebraska.

KEAN'S DUROC Bred gilts, popular breeding at moderate prices. Address FRANK KEAN, MT. PLEASANT, IOWA.

Deyoe Bros., Mason City, Iowa, breeders of Duroc Jerseys. Bred sows for sale. Ohio Chief and Advancer strains; bred to a Col. boar.

Speirs' Durocs Bred sows for sale; Ohio Junior 38521, Silver King, Red Eagle, Dandy Boy boars in service. G. W. Speirs, Hedrick, Ia.

MIDLAND Durocs—8 gilts and 2 sows, bred for April farrow, for sale. The big-boned, growthy kind at moderate prices. S. J. Butts, Mason City, Ia.

HOLT'S PRIZE-WINNING BRED SOWS

IN AUCTION SALE AT

Falls City, Nebraska, Tuesday, February 15, 1910

MY BERKSHIRES have been consistent winners at all of the leading western shows for the past six years. 1903 having been my first season out. At Nebraska have won 9 champions, 55 firsts, 32 seconds, and others in six shows. Des Moines, three shows, 3 champions, 16 firsts, 14 seconds and others. At Hutchinson, Topeka, Sedalia, St. Joe and Kansas City, nine shows, have won 22 championships, 54 firsts, 45 seconds. There will be two three-year-old sows, six two's and sixteen senior yearlings, all bred to Matchless Premier 118373, and the balance spring gilts. The yearlings and two-year-olds are granddaughters of the world's champion, Premier Longfellow, sired by Longfellow Premier 100000, the boar I showed in two-year-old class and headed first-prize sired herd, 1908, at five fairs, Iowa, Nebraska, Topeka, Hutchinson and St. Joe. Will sell twelve gilts that are either daughters or granddaughters to Longfellow Premier 100000. They are in good breeding condition and show well along, being bred mostly to Matchless Premier 118373 and Baron Duke, a pair whose individual excellence places them on a parity with those of greatest reputation. The catalog is replete with details and may be had upon application. Bids will be handled fairly sent to Fred S. Larkin, of The Homestead, in my care. Address

COL. CALLAHAN, AUCTIONEER **W. R. HOLT, FALLS CITY, NEBRASKA.**

DUROC JERSEY SWINE.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.
ALL STOCK PRICED REASONABLY.
Write Your Wants.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

DUROCS

WE are breeding a string of sows and gilts for our winter sale that you'll like. All the popular blood lines. "Always trying to better the best." Watch this space—we'll tell you more about it.

C. W. HUFF, MONDAMIN, IA.

25 Duroc Jersey BROOD SOWS

FOR SALE at private treaty. Sired by Mammoth Critic, Belle's Chief I Am and Link's Ohio Crimson. These sows are bred for March and April farrow. Prices reasonable.

T. J. LINK, Winterset, Iowa.

CHIEF'S COL. BOAR PIGS

OUT of the great brood sow, Helen Blazes, and sows by Ohio Chief, Proud Advance and other great boars. Pigs ready to ship. Address for price and description.

H. E. Browning, Hersman, Illinois.

Do You Want a Well Bred Duroc Jersey Boar

I HAVE them and they are good, sired by such noted boars as Crimson Wonder Again, Guthrie Chief, I Am Advance, Golden Model 2d and others. Write me for prices on these boars.

GEO. H. MILLER, CHARITON, IOWA.

Helen's Chief High Notcher

Glad Col. and King's Col. head my herd of Durocs. I will sell King's Col. by King of Cols. Write for price.

M. A. KRASCHEL, MACON, ILLINOIS.

Duroc Jersey

Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

ARTHUR L. PARKS, LELAND, ILL.

Crimson Wonder I Am

SIX winter boars by this great sire now ready to go out. All of them crackers. Three fall boars by American Crimson Wonder. Nothing but show yard quality to offer.

U. G. Davidson, Scranton, Iowa.

Frank Elder's Duroc Sale

CLAY CENTER, KANSAS,

THURSDAY, FEB. 17TH

42 Head--G. C.'s Col. 63433--16 Tried Sows
22 early spring gilts--3 great young boars

G. C's Col. by Prince of Cols. and out of a daughter of The Chief by Ohio Chief is included as I cannot use him to advantage with King of Cols. 11. He is as great a breeding boar as King and is not sold for any fault. Some one wanting a great Col. bred boar will get him here. The 16 mature sows are as good as I own, several are by Model Chief Again, others are among the best things I got in the Chapin herd. The gilts are by King of Cols. 11, G. C's Col., Pilot Wonder and a son of Nebraska Wonder. All are bred for early farrow to my herd boars. Send for my catalog it tells the breeding and I know the hogs will please the most critical. A. T. Cole will represent this paper at sale.

FRANK ELDER, GREEN, KANSAS.

Cols. Brady and McCullough, Auctioneers.

DUROC JERSEY SWINE.

25 Duroc Jersey Bred Sows For Sale

I AM offering a choice lot of bred sows and gilts at private sale, bred to Iowa Model 24215 and Fancy I Orion 86301. These sows are sired by the leading boars of the breed. Prices reasonable. Write me at once. Address

MARK W. EDDY, FONTANELLE, IOWA.

HARDING'S HERD HEADERS

WRITE me now if you want DUROC JERSEY BOARS. I have several yearlings by Ohio Chief, out of Proud Advance dams; one yearling by Ohio Chief out of Nebraska Belle; 15 fall boars by Crim-son Critic, and a grand lot of spring boars. Address

R. J. HARDING, MACEDONIA, IOWA.

BRIGHTON FARM DUROCS

A LIMITED number of aged sows, fall and spring gilts for sale. Descendants of Tolstoy, Pericles, Achiever. Bred for March and April farrow to Walter Model by Golden Model 2d and Gen. Moou, a grandson of Crimson Wonder I Am. For prices and further description, write to

HUFFMAN & CHAPMAN WASHITA, IOWA.

Chapin & Nordstrum's Durocs

LITTERS by King of Cols. II, G. C.'s Col., G. C.'s Kansas Col. and Kelley's Pilot Wonder. Dams by Model Chief Again, C. E.'s Col. 2d, W. L. A.'s Choice Goods, Morton's Decree, etc. Three yearling and 3 fall boars for sale; good ones. Also some bred gilts for fall litters. Chapin & Nordstrum, Green, Kansas.

Bred Sows for Sale

EXTRA good Duroc Jersey gilts of good strains of breeding, raised for size, and bred for early litters to a son of W. L. A.'s Choice Goods. Will also sell my herd boar, Porter's King of Cols. Write for prices or come and see them.

J. C. PORTER OGDEN, IOWA.

Duroc Jersey Sows for Sale

I HAVE a few choice bred sows for sale at private treaty, and they are bred to my noted prize-winning boars. C. E. VEAK, ESSEX, IOWA.

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banker 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows.

VON SEGGERN BROS., WISNER, NEB.

25 DUROC JERSEY BRED SOWS FOR SALE

Sired by King Solomon II., Advancer's Choice; others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once. Address A. Leutz & Son, Pierson, Iowa.

Duroc Jersey Bred Sows

Fifteen spring gilts and three yearling sows bred for March, April and May farrow to High Wonder by Red Wonder and Cross' Col. by Col. S. Write for price and description, mentioning The Homestead.

L. W. Cross & Son, Mason City, Ill.

Duroc Jersey Gilts

A FEW choice gilts of good breeding, out of matured sows, and bred to Royal Advance 81963, Royal King and Model Duke (son of Golden Model 2d). C. E. Loughecker, Maxwell, Iowa.

DUROC JERSEY SPRING PIGS

Sired by King Orion, Wonder Boy, Peter The Great and Bartlett's Tip Top. Prices reasonable. Correspondence solicited.

EVERETT BARTLETT COLUSA, ILL.

For Sale—Duroc Jersey Sows and Gilts

Bred for April farrow.
L. L. WOODS, GRINNELL, IOWA.

DUROC JERSEY SWINE.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner

HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

HIGH-CLASS DUROC JERSEY BRED SOWS FOR SALE

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel boar. These are good. Will not hold a sale and am selling them privately. Address

J. D. McDERMOTT, WIOTA, IOWA.

Elder's Durocs

KING OF COLS. II., G. C.'s COL. and 30 of Grant Chapin's best brood sows were purchased and from these I have 125 choice spring pigs. Herd boars and choice breeding sows will be my specialty. Write your wants.

FRANK ELDER, GREEN, KANSAS.

REEDS' DUROC JERSEYS

BOARS all sold. We now offer high-class bred sows, sired by Model Chief 94969 and Advancer 28773, and bred to such noted boars as Model Chief 44969, Advancer 28773, the grand champion, Model Chief 2d 53753, and White Hall King 15977.

C. W. & WM. REED, ROSE HILL, IOWA.

Bargains in Bred Sows

SPRING, \$25; fall yearlings, \$30; old sows, \$35 to \$50. Our herd contains the blood of Tip Top Notcher, Crimson Wonder Again, Top Notcher Again, Proud Advance, Orion, Educator and other noted sires. Our sows are noted for producing large litters of strong, vigorous pigs. A few good spring boars left at \$20 each.

WOODLAWN FARM, STERLING, ILL.

W. J. HARTUNG

MAXWELL, IOWA.

Offers 25 choice Duroc sows for sale, sired by S. E.'s Jr. Jim, Advancer IV., Golden Model II., and bred to W. J.'s Colonel by Prince of Colonels and son of Golden Model II. for March and April farrow. Priced from \$25 to \$50. Write if you mean business.

DEFENDER and KING WONDER

Two of the greatest sons of King of Cols. head my herd of Duroc Jerseys. They are assisted by Ransom Chief by Ohio Chief out of the \$1,200 Helen Blazes III. Write me for what you want.

ERNEST PANCAKE, RANSOM, ILLINOIS.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

I HAVE 75 SPRING GILTS

THAT I am pricing to sell within the next thirty days. Sired by Col. Chief, Fancy Critic and others. J. P. Peterson, Herman, Nebraska.

REPPERT'S GREAT WESTERN SALE CIRCUIT DUROC JERSEY BROOD SOWS

This Will Be the Greatest Week's Sale of Duroc Jersey Brood Sows That Has Been Made in the West This Year, and Are Sired By the Greatest Boars of the Breed.

E. Z. Russell, Blair, Neb., February 14th **45 HEAD SOWS--5 GREAT HERD BOARS--45**

Included in this sale will be the noted boars, Proud Chief, one of the greatest breeding sons of old Ohio Chief, and he was second-prize boar at the Iowa State Fair; Dusty Critic, another great boar, will be sold and three yearling sons of Proud Chief. There will be six Gold Dust Jim sows in the sale, fifteen daughters of Glendale Critic, eight Dusty Critic gilts and a number of Proud Chief sows. Twenty head will be bred to Proud Chief in this sale. There will also be one good Advance sow bred to Dusty Critic. Here is the greatest lot of brood sows that has ever been offered at public sale in Nebraska, and here is the place to buy a great herd boar. Catalog now ready. Write for it at once. Address

COL. FRED REPPERT, Auctioneer.
M. T. WHITE, Field Man.

E. Z. RUSSELL, BLAIR, NEBRASKA.

M. S. Moats, Mo. Valley, Ia., Feb. 15th **40 SOWS AND GILTS--ALSO THE GREAT BOAR, BRIGHTON WONDER--40**

There will be ten tried sows in the sale sired by Ohio Chief, Proud Advance, Brighton Wonder, Crimson Critic and the great Proud Chief. I am also selling a Glendale Critic sow that is hard to beat, bred to Brighton Wonder. There will be about fifteen Proud Chief sows and gilts in my sale. I will also sell the great breeding boar, Brighton Wonder, a full brother to Crimson Wonder, and he is a great herd boar proposition. Write and get my catalog at once. Address

COL. FRED REPPERT, Auctioneer.
M. T. WHITE, Field Man.

M. S. MOATS, MISSOURI VALLEY, IOWA.

C. W. Huff, Mondamin, Iowa, Feb. 16th **40 HEAD OF CHOICE SOWS AND GILTS**

I am offering fifteen head of my best yearling and tried sows and twenty-five of my best gilts. They are sired by such noted boars as Crimson Advance, Valley Chief, Iowa Challenger, Lafollette, Kruger, Tip Top Chief, Muncie Chief, H. A.'s Choice Goods, Tientsin, Nebraska Belle's Ohio Chief, Guthrie Chief and other noted sires. Catalogs now ready. Address

COL. FRED REPPERT, Auctioneer.
M. T. WHITE, Field Man.

C. W. HUFF, MONDAMIN, IOWA.

John R. Tupper, Woodbine, Ia., Feb. 17th **40 HEAD--15 TRIED SOWS--25 CHOICE GILTS--40**

Daughters of the great Crimson Wonder Again, Lafollette Alphonso, Muncie Chief, Model Chief 3d, Guthrie Chief, Kruger Lad, Dunlap Banker, Ohio Anna's Advance and Orion Jr. will be offered. Also one good Prince Wonder sow bred to King Wonder. These sows will be bred to the great boars, Alphonso, Waveland Col., Lad Kruger and Ohio Anna's Advance. You will see some great sows in this sale. Write for my catalog at once.

COL. FRED REPPERT, Auctioneer.
M. T. WHITE, Field Man.

JOHN R. TUPPER, WOODBINE, IOWA.

W. L. Hull, Logan, Iowa, February 18th **40 HEAD OF THE MOST RICHLY BRED SOWS AND GILTS--40**

There will be ten head of tried brood sows and thirty choice gilts in my sale bred to the great boar, Lafollette, and the sweepstakes boar, Crimson Chief. There will be seven daughters of the great Valley Chief in this sale, also daughters of Orion's Success, W. L. A.'s Choice Goods, Orion Jr. and other noted boars. Six sows in my sale are bred to Lafollette. I am selling a splendid lot of sows bred to the most noted boars of the breed. Write for my catalog at once. Address

COL. FRED REPPERT, Auctioneer.
M. T. WHITE, Field Man.

W. L. HULL, LOGAN, IOWA.

E. B. Ryan, Neola, Iowa, February 19th **45 HEAD--15 YEARLING AND MATURED SOWS--30 GILTS--45**

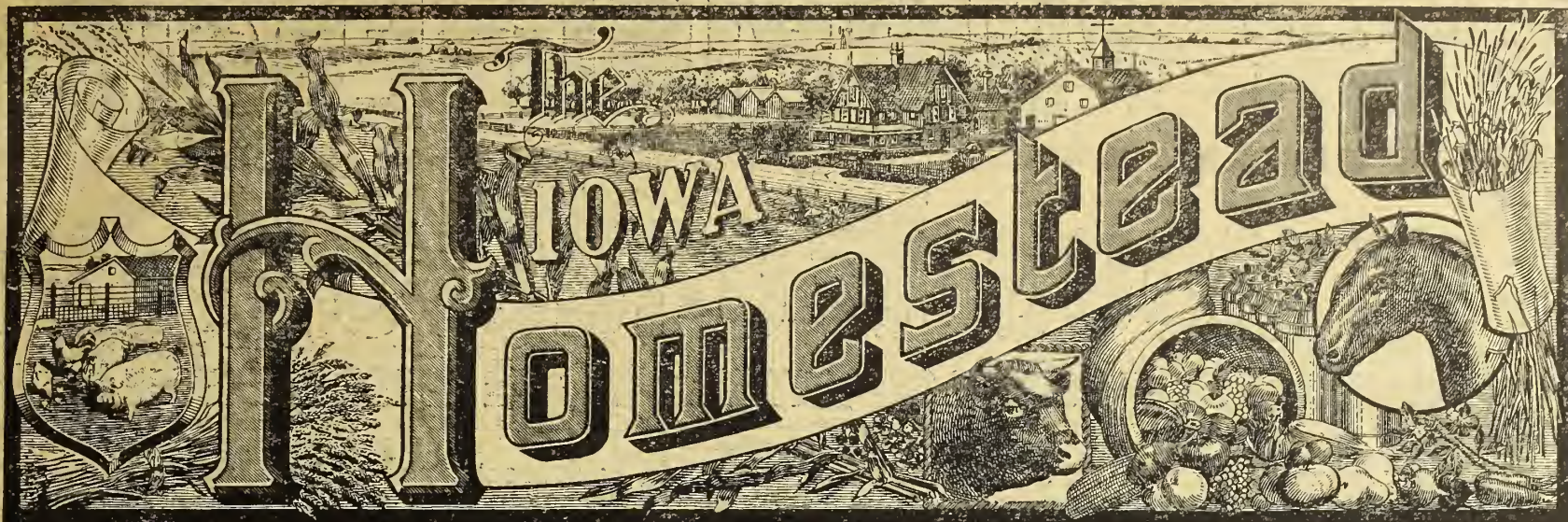
Included in my sale will be Tientsin Belle, a daughter of Tientsin, also daughters of Jim Advance, Hager's Kruger Lad, I Am Advance, Alphonso and a number of granddaughters of Ohio Chief. These are bred to Crimson King, C. W. Chief, Lafollette's Improver, Model Prince and Harlan Chief. These sows are the select of over one hundred and fifty sows on the farm. Let me send you my catalog. Address

COL. FRED REPPERT, Auctioneer.
M. T. WHITE, Field Man.

E. B. RYAN, NEOLA, IOWA.

M. T. White, Homestead representative, will attend the above sales, and will care for all bids sent in his care. Write for catalog to above breeders. Mention paper.

CHICAGO HOUSE WRECKING CO., 35th and Iron Sts., CHICAGO



VOL. IV. NO. 7

DES MOINES, IOWA. FEBRUARY 17, 1910

WHOLE NO. 2732



A STITCH IN TIME

Great PUMPING Engine Does Wonders!

SEE IT PUMPING AND RUNNING CREAM SEPARATOR AND WASHER AT THE SAME TIME **Just like PLAY!**

FARMERS and their wives—yes, and the children, too!—are showering us with compliments on the truly wonderful work of this powerful pumping engine. It takes right hold of the pumping in fifteen minutes after you take it out of the packing box and pumps 800 to 1,000 gallons per hour, as if it were only play. Great thing for farmers, dairymen and stockmen.

See how
this engine
helps the
women
folks

Out-pumps the largest windmills!
Does away with tanks. Supplies
water at proper temperature for
stock to drink instead of un-
healthy ice water!

Patented
June 15, 1909
Others
Applied
For

**CANNOT
FREEZE or
OVERHEAT**
Works Indoors or
Out in the Storm

The Farm Pump Engine does away with the back breaking wrestling match with the pump, which keeps you and your men or wife and "kids" on the jump from daylight till after dark.

But this engine is more than a pumper,—**IT ALMOST RUNS THE FARM!** It's so alive with **POWER** and so eager for **WORK** that it will do several different kinds of work at the same time! This picture shows how it busies itself at countless tasks that saves you hard work and real dollars. It is running the Washing Machine, turning the Cream Separator while pumping to beat the band!

Fits Any Pump!

Just four simple nuts to tighten.
Works in any well that a windmill
will pump.

**PUMPS
800 to 1000
Gallons per Hour**

Fuller & Johnson **FARM PUMP ENGINE**

A Complete and Portable Power Plant—Always Ready for Work!

No Anchor Posts! No Belts! No Jacks! No Arms! No Special Platform Needed!

Nothing to buy but the gasoline, after you get this engine. Nothing to build. The whole thing comes to you complete and ready to set up and **RUN!** Attaches to any standard pump by means of four simple nuts. It is a **perfectly** air-cooled engine, without fans or cooling attachments. Tank holds a full day's supply of gasoline. Starts or stops **instantly**. Needs no attention while running. Working parts protected by metal case, and easily reached. As high grade a machine in all respects as best automobile engines. Starts with half a ton lift on the sucker rod. Makes 31 to 35 strokes per minute. By attaching a piece of common pipe for air head will throw a stream of water over a building 40 feet high, or 60 feet on a level. Gives valuable fire protection. Washes buggies and windows and irrigates gardens.

RUNS ALL KINDS OF LIGHT MACHINERY

This is the most adaptable engine ever designed. It is easily detached and moved about. Weighs a little over 200 pounds. It is equipped with a 4 inch pulley for running all kinds of hand-power or foot-power machines. It runs fanning mills, feed grinders, corn shellers, grindstones, drag saws, washing machines, cream separators, churns, etc., etc. Always ready to "give you a lift" on the hardest work. Do you wonder that owners tell us "It almost runs the farm."

Cannot FREEZE or OVERHEAT—Runs at 50 Degrees Below Zero

The fiercest storms of snow or sleet can't stop its steady running. Every engine built for strength, durability and steady running and **Guaranteed** by the Fuller & Johnson Mfg. Co.

Send Coupon or Postal for FARM PUMP ENGINE BOOK
and Name of Nearest Dealer Who Sells This Modern Wonder-Worker.

The engine is less than a year on the market. It fairly leaped to fame. Its success is **overwhelming**. The demand almost ran away with us. An additional factory is being pushed to rapid completion by day and night forces of workmen. Dealers who hold the agency are crowding us for **more and more engines**. Their customers are clamoring for Farm Pump Engines before extreme cold weather.

Send for the Farm Pump Engine book **right now** and have the engine working when the cold blast whizzes and the snow piles up around that pump of yours!

Fuller & Johnson Manufacturing Company

709 Main St., Madison, Wis., Established 1840

DEALERS!

Prompt action may secure the agency for the Farm Pump Engine and possibly full line of Stationary and Portable Engines. These are the engines that make business hum. Send for our great Dealer's Proposition to-day.

FREE BOOK COUPON

FULLER & JOHNSON MFG. CO.
709 Main St., Madison, Wis.

Gentlemen:

Send ENGINE BULLETIN to

Name _____

Town _____

R. F. D. _____ State _____

I am interested in the engine checked below:

Horizontal Engine of _____ H. P. . . . ☐

Farm Pump Engine ☐

(61)



FULLER & JOHNSON FARM IMPLEMENTS HAVE BEEN LEADERS SINCE 1840

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, FEBRUARY 17, 1910.

Sensible System of Selling Live Stock

IN THE very necessity of the case the number of pure-bred herds of cattle in the great central West will increase as the years go by. As men begin to realize what improvement can be wrought by one pure-bred cross after another on the grade herd, a larger percentage of our people will go out of the business of producing grades and raise pure breds in their place. In view of this we believe that we are in position to give a little helpful advice to men who are beginning in the business of handling pure breds as well as to a certain percentage of those who are already engaged in it.

The matter was recently brought to our attention as the result of a visit made by a member of our advertising staff to the home of a man who was somewhat extensively engaged in raising pure-bred cattle, and who was, therefore, anxious to get his name before the public. This man was in a state of discouragement as the result of his efforts to sell cattle through the medium of an advertisement in the columns of this paper. Going somewhat into the matter of details in order to ascertain the difficulty, the member of our advertising staff asked for the privilege of looking over the mail that had been received from prospective buyers, and here the trouble was located. Something like a dozen or fifteen unanswered letters were found, some of which

carried a postmark two weeks old. When it was pointed out to this advertiser that such business methods could not result in selling cattle, he rejoined by saying that he had answered some letters, but never received a reply from his correspondence. Within five miles of this very farm another advertiser of the same breed of cattle had been completely sold out as the result of using a similar space in the columns of this paper and his cattle represented no better breeding nor were they any better as individuals.

The lesson to be drawn from this comparison is apparent on its very face. Up-to-date business methods will tell just as effectively in building up a business in handling pure-bred cattle as it will in the manufacturing or mercantile business. Men who study the advertising columns of an agricultural paper in order to get in touch with their fellow breeders are quick to detect slipshod methods if these are adopted by the man with whom they correspond. If they find that a letter is answered when it is convenient to answer, rather than when it ought to be answered, the conclusion is arrived at at once that such an individual is not a good business man and that, therefore, he cannot be up to date in the kind of cattle he handles or in his method of handling them. On the other hand, let a man respond promptly to those who have become

interested in his herd, let him give full information honestly and frankly, let him be plain and specific in dealing with ages, weights, pedigrees, guarantees, etc., and he at once makes a favorable impression on the man who contemplates purchasing. As the result of this frank and prompt correspondence one's business will grow unconsciously. Once a sale is made to a pleased customer you immediately get in touch, directly or indirectly, with your purchaser's neighbors and friends. This has been the experience of every man who has succeeded.

We could give instance after instance where the sale of an animal to a satisfied customer resulted in establishing a trade in that particular locality that took care of the surplus of the herd for years, but that kind of trade was never generated or developed as the result of any slipshod method of handling the business.

This paper at all times carries a large volume of live-stock advertising and it is to the interest of every advertiser to dispose of his surplus stock at a profitable basis. This is being done in practically every instance where business methods are employed, and in our opinion by the very nature of this business it will be even more profitable in the future than it has been in the past in the case of those, as stated above, who use business methods in conducting their affairs.

Typhoid Fever a Country Disease

PROF. S. J. HUNTER, of the department of entomology of the University of Kansas, makes the astonishing statement that typhoid fever and malaria are far more prevalent in the country than in the city. The reason is to be found in the lack of protection against the common house fly and the mosquito. Discussing this very important matter, Professor Hunter said:

"Both diseases are carried by insects, and the way to exterminate them is to do away with the insects that spread them. The common house fly is the carrier of typhoid fever. In the cities this pest has been largely abolished by sewer systems and other modern methods of sanitation. The farmer has still to deal with the question, and the reason for the prevalence of typhoid on the farms is that the farmer has as yet taken no adequate means to stop the disease. The fly breeds in refuse of all kinds. The farmer should see that his place is kept clean. He should throw the refuse from the barns into pits or closed sheds, and in the open paddocks he should allow chickens to run continually. They eat the eggs of the fly and

the young insects before they can fly away. If people in small towns and on farms will keep their surroundings clean they can almost exterminate the house fly. And when that insect goes typhoid fever will cease to be such a common disease. The insect that spreads malaria is the malarial mosquito. Scientists now say that the only way malaria can be spread is by means of this insect. The mosquito bites a person who has malaria and takes in a few germs along with the blood of the person. These germs develop in the stomach of the insect, and in a few days they are injected into another person that the mosquito

happens to bite." Here is a matter which should cause every farmer to resolve himself into a committee of one to exterminate the fly and the mosquito. It is not an impossible task, neither is it too early to begin the campaign. House flies will not exist where there is no dirt. In a house absolutely clean there will be no flies. Millions of eggs were deposited last fall in the cracks and crannies, the ribs in the wall paper and the cords of the window curtains. These eggs will hatch flies before long and these flies will continue their mission of carrying disease germs from stable to house, from garbage to human lips. It is

none too early to begin such a systematic campaign of cleaning as will endanger the life of every one of the million eggs with which the average house (whether it be in the city or in the country) undoubtedly teems.

The question naturally arises why (if there are eggs deposited alike in both city and farm homes) the danger of disease infection is greater in the country than in the city. The answer is that in the city sanitation is compulsory, while in the country it is voluntary and spasmodic. In



JAMS' PERCHERON MARE & STALLION WT 4640, BEST INVESTMENT FOR KEY BOY.

JAMS AND TWO PERCHERONS, WEIGHT 4,600 POUNDS, MODELS OF 200 IMPORTED STALLIONS AND MARES THAT MUST BE SOLD AT \$1,000 AND \$1,500, FEW LITTLE HIGHER. SEE ARTICLE ON PAGE 54.

the city it is against the ordinances to throw garbage and refuse in the yard where maggots and flies will breed to carry filth and disease. In the city practically every window is screened. In the country outbuildings are frequently near to the house, garbage is thrown out as food for animals and becomes a breeding morass, windows are all too often left unscreened and the pestilential carrying flies and mosquitoes pursue their devastating career unhindered.

The country should be far healthier than the city. There is an abundance of wholesome food and fresh air; there is muscle-building work for all. But carelessness, which is almost criminal, has allowed conditions to remain such that typhoid fever and malaria are prevalent in the country, whereas the health boards have done much to check them in the city. The country should learn the lesson before it is too late. Exterminate the flies and the mosquitoes. Wage a relentless warfare against them, before they are born and throughout all their existence. Human life depends on it.

HOG-HOUSE ECONOMY.

A subscriber of this paper who contemplates engaging in the business of breeding pure-bred hogs, asks for advice with reference to the most desirable kind of hog house. The inquiry touches upon a subject of serious importance, yet one upon which hard and fast rules cannot be laid down. The kind of hog house depends in some measure upon the kind of man.

Almost instinctively the mind turns to thoughts of the fine, large, roomy, well-lighted, well-ventilated house. Perhaps it will have movable partitions, automatic self-feeders, artificial heat, and all the modern conveniences. The writer has seen many hog palaces of this sort, but unfortunately it has been his pleasure to meet but few men who based their success in hog raising upon their splendid buildings. It is surprising what strokes of misfortune can come to the herd of a man whose good hog house should be a license to success.

To begin with the big and well-equipped hog house is an expensive affair and one which not infrequently calls for an expenditure of a greater amount of money than the profits of the hog raising for a number of years would amount to. Then with all its apparent advantages it has disadvantages that go far toward offsetting them. The big hog house is apt to be located at some point of most convenience in the matter of feeding and watering. In most cases this means remote from pasture, and one of the undesirable results is a tendency to close confinement in the house or the limited lot adjacent. Another is the accumulation of manure and filth either in the house or about it, that detracts from correct sanitation. The advantages of feeding in the house are overbalanced by the fact that feeding cannot be done in a house also used for sleeping purposes, without destroying its value for the latter. Dampness in the bedding will follow even with the closest attention. And damp beds are as deadly in their effects as any other possible condition. In winter, should an effort be made to secure comfort by closing the house impure air will of necessity follow. Theories of ventilation may look promising, but their value has largely been in the pleasure of contemplation. The air of a hog house which is reeking with ammonia is as detrimental to the health of the hog as it is to the human being.

The individual hog house, designed for a single sow and litter, has many points in its favor. It reduces the dangers that result from crowding into large quarters. It permits the more careful attention and feeding of each litter, and it furnishes favorable conditions that may not be found in the central hog house. Cleanliness and ventilation take care of themselves. The earth floor becomes possible as it is no where else, and the earth floor is the most nearly perfect floor that a hog house may have.

A very simple and easily construct-

ed house, which is also comparatively inexpensive, and one which has demonstrated its value beyond question is illustrated in Fig. 1. The material actually required for this house is fourteen pieces of ship lap fourteen feet long and five pieces of 2x4 twelve feet long. The size of the house is 56x70 inches. Ship lap has a clear measure of seven inches besides the lap. The front is made of eight pieces four feet long and the back of eight pieces three feet long. Each board should be cut into two pieces for each length. Economy of lumber depends upon cutting in this manner. The ends are ten boards wide. Each board will furnish four of these end boards if the same manner of cutting be followed. Begin by cutting from the same board the longest and shortest piece for one end, then the next longest and shortest, and so on. The longest piece should be four feet at its longer edge, and the shortest one three feet at its shorter edge. The bevel of the cut should be, of course, made to fit the pitch of the roof. In cutting care should be taken that the lap of the boards be kept the same way. If this is done, all corners and joints will nail up tight. The measurements given are made with this object in view.

The bottom frame should be 56x70 inches and will require two pieces 2x4 fifty-two inches long and two pieces seventy inches long. The top frame should have a center piece as a nailing piece or support for the middle of the roof, so it will require three pieces fifty-two inches long and two pieces seventy and one-half inches long. It is best to nail the boards of the back and front to the fifty-two inch pieces first. Then the 2x4's for the ends may be spiked on, when the ends also may be boarded up. For the roof use nine pieces of ship lap seven feet long. It adds to the effectiveness of the roof if it be covered with ruberoid or some like roofing material.

The door is made by cutting three of

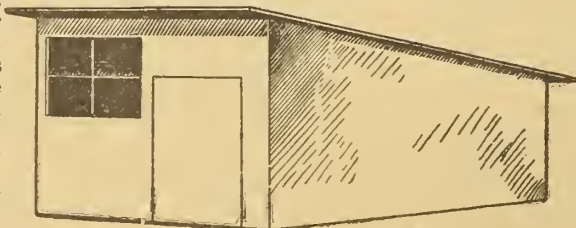


FIG. 1.
A SIMPLE, INEXPENSIVE HOUSE.

the front boards about thirty-two inches from the bottom. Nail these together as a door and hang with a pair of ordinary hinges at the side. Leave one board between the door and the right hand end of the house. Nail a piece of 2x4 inside where the boards were cut, so the top of the door may close against it. Make it long enough to cover five boards, so it will strengthen and hold them together.

The house shown in figure No. 2 is one in use at the Nebraska Experiment Station. It is nine feet long, six feet wide, and three and one-half feet to the eaves. The longer roof measures

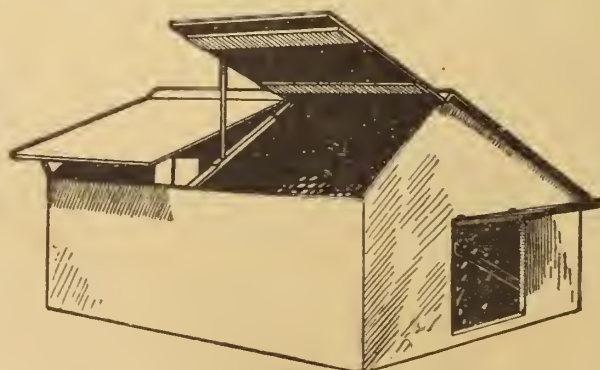


FIG. 2.
HOG HOUSE IN USE AT NEBRASKA EXPERIMENT STATION.

five feet four inches from the peak to lower edge, while the shorter measures three feet, three inches. A glass window is placed in one end, a swinging door in the other. The shorter roof is in two sections, both of these being on hinges. This adds but little to the cost. The idea is a most excellent one, this kind of a roof being specially valuable in the spring when the little pigs are coming. Almost any sunny day in March at least one section of the roof can be raised and every swine breeder knows what a sun bath means for a little pig. In

constructing this house the longer sills which may be 4x4's are extended out on one end and indeed it is quite convenient to have them extended at both ends.

A ONE-SIDED RATION.

The following communication has been received from a subscriber, Mr. John F. Louber:

I would like a little information on what constitutes a balanced ration for brood sows. I have on hand barley middlings, tankage, skim milk, bran, oats and clover hay. I would like to know what proportion these should be fed in to give the best results.

It is certainly unusual to find on one farm so many foods that are similar in character. Instead of being too rich in carbohydrates and fat as is usually the case, these foods are really overcharged with protein. Sows could be taken through in very good shape on barley middlings alone, or on a mixture of oats and bran together with a little skim milk. With middlings, oats, bran and clover hay available it is very doubtful if there will be any profit in feeding tankage because it is really a highly-charged protein product that is usually fed in conjunction with corn. As the prices of these foods are not given we are not in a position to say specifically what changes should be made, but it is our opinion that a little corn could be used in the place of barley middlings to advantage. A mixture composed of equal parts of corn, bran and oats would make an ideal ration for brood sows if in addition they could have access to clover hay and were fed some skim milk. Indeed at the present time bran is higher than corn and in that case the bran may be dropped, the barley middlings may be dropped and a very good ration compounded from corn and oats, together with clover hay. If the tankage is already purchased a splendid ration may be compounded from corn and tankage, using eight or ten parts of the former to one of the latter. Skim milk and clover hay may be added advantageously to this ration.

As to the amount to use, that is a matter that must be left entirely to the one who does the feeding. We have always believed in getting the sows into a fairly good condition of flesh before farrowing time, and in order to get them to that point they will have to have a good full meal twice a day.

THE SHALLOW SEED BED.

We have rather a peculiar set of conditions in the great central West for the growing of small grain. Our best soils as a rule are highly charged with nitrogen and because of that there is a tendency toward rankness of growth—by this we mean rankness in the development of leaf and stem. A soil that is capable of producing sixty or seventy bushels of corn is not regarded as being in the best condition for small grain, and because of this there is room for the exercise

of considerable judgment in preparing the seed bed. As a considerable part of the small grain that will be seeded this spring will be sown on cornstalk ground, a brief statement as to just how that ground ought to be prepared will be in order. Under average conditions the plowing of the soil is not necessary in the spring because of the fact that stirring the soil to any considerable depth results in rankness of growth that really cuts down the

yield. We must resort almost entirely to the use of surface-cutting implements, such as the pulverizer, the disk and the harrow, but because it is not advisable to plow, it is an unpardonable blunder to assume that surface cultivation is not necessary. As a matter of fact, a seed bed for small grain invariably needs considerably more labor than is put on it. It ought to be brought into almost garden condition, but that condition must be brought about without stirring the surface soil to a depth greater than two and one-half or three

inches. Cornstalk land ought to be brought into the proper condition by say two diskings and one or two harrowings. We have made a rather close study of the methods employed by good farmers and we find that a great many of our best farmers make a practice of double-disking their land, that is, by lapping half each time, after which the harrow is used once or twice and following that the grain is drilled in. Where a drill is not available, the grain is seeded after the diskings and this is followed by one or two harrowings. That kind of a seed bed means a uniform stand provided the grain is sown evenly, and a good stand is just as important in an oat field or in a wheat field as it is with corn.

The old-fashioned idea of going into a cornstalk field with an end-gate seeder and sowing before any cultivation whatever has been done, is out of date because under those conditions it is absolutely impossible to get a uniform stand of grain. By thoroughly pulverizing the surface to a depth of two or three inches the seed is given a good strong start and after that there will be plenty of root development under normal conditions, to insure proper balance as between leaf and stem growth. But as our grain-growing season is short, the essential thing is to have the grain start strongly, and that can be done only by getting the grain covered to the proper depth with a friable soil.

SIX SPLENDID PAPERS.

Each member of the household will find something of practical interest adapted to his or her own needs in the papers which form our Red Letter Subscription Offer. The Homestead is the most practical all-round farm weekly published, especially devoted to the work and needs of the farmers and stockmen of the grain belt. The Kansas City Weekly Star is the best all-round newspaper published, presenting the events of the day in a concise, reliable form. Home Life is an illustrated magazine devoted especially to the wants and interests of the women. Rev. Dr. F. W. Gunsaulus, probably the greatest pulpit orator of the day, is a regular contributor, having a sermon article in every issue. Kimball's Dairy Farmer is for the man who owns cows and is crammed full of practical advice and information. Commercial Poultry is the most concise and reliable of all the poultry journals and deals with the problems which beset the professional fancier and the amateur as well. The National Swine Magazine is published in the interests of swine breeders and presents the latest and best information and advice on the subject. These six splendid papers will be sent one entire year for \$1.50, which is exactly one-half the regular price. Remit \$1.50 to The Homestead, Des Moines, Iowa, and your name will be put on the six mailing lists for one whole year. This is the chance of a lifetime and should be taken advantage of without delay. Already thousands of your fellow farmers have sent in their remittances and are enjoying the splendid collection of practical and timely reading matter.

The advance in Missouri farm land during the last ten years is estimated at 70 per cent. In one rural neighborhood is a farm of 160 acres which seven years ago sold for \$55 per acre, the highest price ever paid for a farm in that region up to that time. The price seemed so high that old settlers shook their heads knowingly, and others speculated as to "how in the world" was the purchaser ever expected to "see his way out." Within the last sixty days the owner of this farm which was thought to have sold "most awful high" seven years ago, has refused two offers of \$90 per acre.

FARM FURROWS

TURNED BY A PRACTICAL FARMER

You do not need the gift of a prophet to see that hay will bring good prices before spring. Those who have half their feed and hay on February 1st, this year are few and far between.

One thing that may be noticed in communities where silos have been in use for some time is that the new ones are smaller in diameter and are built higher than the older ones.

The makers of "moonshine oleo" are giving the revenue collectors about as much trouble as the makers of moonshine whisky ever did, only they fight on the sly instead of with a gun.

The daily papers report that fresh strawberries are offered for sale at seventy-five cents per quart. A dish of strawberries and cream must be intended only for farmers and millionaires at the present time.

A few years ago a great many farmers laughed at the idea of testing every ear of corn before accepting it as good, but the idea is spreading and those who have tried it hardly ever go back to the old method of testing a few kernels after the seed is shelled and then regulating the plates in the planter according to the results. The new way may be classed as book farming, but it is a great help in getting an even stand of corn.

Have you become interested in the Red Letter Combination that is being offered by this paper? According to the terms of this offer, \$1.50 will pay the subscription for one year to the following list of papers: The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine. It is undoubtedly the best bargain ever offered to the subscribers of any agricultural paper.

We are hearing a great deal about the conservation of our forests and other natural resources. So much noise is being made that the average person is liable to think that it is more a question of conservation of politicians than of natural resources.

A South Dakota subscriber says that he has had a lot of experience in protecting water pipes in the vicinity of coal mines, and he strongly recommends the use of soft coal slack. He says if it is perfectly dry and you get it the proper thickness around the pipes, frost will not penetrate it.

The largest ear of corn that we have heard from, especially from the standpoint of number of kernels, has been reported by Mr. George Brown, of Benton county, Iowa. It weighed one and one-half pounds and produced 1,302 kernels, though it is but ten inches long and eight and one-half inches in circumference.

One of my chicken friends claims he has a hen which struck 265 times last year. When eggs are nestling pretty close to the four-cent mark a hen of that sort is a money maker. I could never induce my hens to cackle that many times a year for me.

I had always supposed that ground bone was a mighty good thing for chickens until I heard an experienced poultryman say that he had lost more valuable birds by feeding it than from any other one source. He believes in feeding the granulated bone.

A popular eastern magazine points out how one lone congressman has sent 27,000 packages of "select" seeds to his home in Indiana. The post-office department received no payment for this service of transportation. The packages will again be distributed by mail and at a large expense to the postoffice department. Every congressman is permitted to send out 20,000 packages of vegetable seeds and 2,000 packages of flower

seeds. This we are told means 3,600 sacks or 270,000 pounds of seeds on which postage is eight cents per pound to the ordinary citizen. It has been estimated that it would cost any business house or private individual \$144,000 to mail the seeds that congressmen can send through the mail for nothing.

I told my wife the other day that if she could get the flock to paying our grocery bill, clothing the children and to laying by a nice little cash balance with which to buy me a gold watch I would be willing to put \$13.75 into a chicken coop. She jumped at the chance.

In my limited experience with poultry I have discovered that some hens lay and other hens lie. A successful poultryman has to know who's who and what's what in his poultry yard. The layers are the money makers, the "liers" should be allowed to lie upon the butcher's counter.

During the present winter this paper has contained several communications advocating the narrowing of our roads. Frankly I am not in favor of any such a proposition. We need every rod of our highways. Farmers are planting more and more roadside trees and although this requires space we do not believe that it should be discouraged. Telephone companies are digging in their poles which uses up a little more of the road and then, too, we need much of the material contained in the four-rod width with which to grade up our team paths. In many instances if the roads were narrowed we would have to go to the fields and pay for grading material.

Having to buy corn is no sign of a poor farmer—if there is stock on the farm to convert it into profit. Rather, it is the sign of good farming.

A poor milk cow can look like a good one, proving the old saying, "You can't tell by the looks of a frog how far he can jump."

A friend of mine sold out a few years ago, just to rest up a bit and to buy his way into farming again, in a short time, cheaper than he sold out. He expected to make wages in this way resting. I was wondering, last evening, where his cheap horses, cows, sows and grain to feed them could be found. It costs to "start up" now.

It doesn't take much cholera to prove costly this year. I have yet to lose a hog by cholera, although I have been raising hogs since my father gave me a "runt," when knee high to a grasshopper. Remembering that the devil is always near when talked about, however, I never brag about my good luck.

Once in awhile a man's foresight turns out to be as good as hindsight would have been; last summer I bought a new corn binder and the machine ran so nice I cut up a few more acres of corn than I had otherwise intended. All that was put in shock will only be enough. Had the old sled cutter been used a month's supply would have been minus.

Rough feed is going to become a great object in many localities before "grass grows green again." And what makes it all the worse with some of us is the fact that we could have had plenty had we put it in the shock last September. Not many of us figured on the "old-fashioned winter," which has been a myth so long.

We would like to see every high-school principal in the corn belt try out a new stunt in laboratory work for his students. It is this: that every one of the boys who lives upon a farm and drives back and forth to school daily gain credit for laboratory work done on the farm or on the way from and to farm and school. For instance, one term's work might consist in satisfactorily passing an examination upon

the clean production of milk, its separation and then the delivery of the cream to the creamery. If the student could intelligently pass a good, rigid examination upon this subject he would have learned a trade of no mean consequence.

I heard a man say the other day that one woman in the kitchen was worth two in the parlor and I think he was about right. However, it seems to me that here is a place where a combination should work well together.

Someone has dared to say that there are but two classes of secrets—those which are not worth keeping and those which are too good to keep. That is a wise enough statement to have come from Solomon, although we are not enough familiar with his sage remarks to know whether or not he was the author of the same.

There is more snow on the ground now than there has been at any time for some years. If the winter should happen to hang on and then let go "with a rush" it will mean floods to those living on the low lands.

The meat boycott was started at about the proper time because the supply this year is limited and the prospects are, that unless the prices for live stock reach a plane where they can remain reasonably steady the supply will be limited for some time. There are very few who care to repeat the experience of feeding a bunch of hogs or cattle only to find at the end of the feeding period that the prices are so low that they have nothing left for their work.

"First find your sucker, then play your sucker, land your sucker then beat it," has been the policy of those who have been in the habit of farming the farmers in the past. There are still many such fishermen and they use very tempting bait, but the hook is always the same. Beware of the hook!

The interests of the farmer and the village merchant do not always go hand in hand. It will be remembered that the merchant, as a rule, was opposed to the establishment of rural mail routes because he wanted the farmer to come to town for his mail. At present the parcels post agitation is the red rag in the eyes of the merchant because he fears the competition of the catalog houses in the large cities. It is beginning to look as though the farmer, who in the past has been getting along with very little legislation in his favor, is beginning to sit up and take notice.

Working in the straw pile at thrashing time is generally considered a disagreeable job, but a well-built straw pile at this time of the year is worth enough to pay for two or three hours of pretty hard work. Perhaps, in the future, we may learn to build good straw piles without hard work, but up to the present time the swinging stacker is about the best helper we have.

Those who do their farming when the signs of the moon and stars are right, will have a new thing to contend with this summer and that is the comet. Perhaps, if they can read the signs of the comet right they will be able to raise some wonderful crops during the coming season.

It is certainly a fair exchange to take out a load of manure when you go after a load of fodder. It makes it right with the land for taking all the growth off.

Spreading manure by hand, after using a spreader, seems just like trying to jerk the arms out of the shoulder sockets for nothing. It reminds a fellow of walking backwards on a moving sidewalk.

I would like to know if an ear of corn ever grew that suited both the farmer and the corn specialist. Usually, what suits one doesn't suit the other.

Burning coal to heat room that isn't needed is expensive. So is feeding horses that are not needed and that return no profit.

I find it is a good thing to anticipate every point that may arise and have it

down in ink that will not fade on the farm lease. The business renter should insist upon this just as strongly as the landlord. Leaving some points to settle later on is poor policy.

Two women had talked "spring fashions" and clothes making for a half hour over the telephone, while a neighbor stewed around in a great hurry to call up a friend about some business before leaving home. Finally he asked if he could use the "clothes line" for just a moment. The ladies took the hint and "hung up."

BOOST THE GRAIN BELT.

Missouri is setting other grain belt states a good example in boosting. Its own citizens have long realized that it possesses capabilities and possibilities in excess of many of the states of the Northwest and Southwest which have been developed by continued publicity work in the setting forth of attractions to homeseekers. But Missouri, like other grain-belt states, has never entered into this work in a systematic manner. A few months ago Governor Hadley announced that he intended to devote himself to showing the rest of the world that Missouri is an ideal home state. One of the steps in this campaign is the announcement of a series of prizes to be given for articles setting forth the state's attractions. Any boy or girl of Missouri, sixteen years old or under, is invited to enter a contest to see who can write the best essay on the subject "Missouri and Its Resources." In each of the sixteen congressional districts five prizes will be awarded, as follows: First, a ten-acre farm; second, a registered Jersey or Holstein bull calf; third, a rooster, two hens and a sitting of fifteen eggs; fourth, a pair of thoroughbred pigs; fifth, 100 pounds of alfalfa seed. The prizes have all been donated by associations and individuals whom the governor has interested in his plan.

Nor is the work to be confined to young folks. There will be a similar contest for adults in which any Missourian, sixteen years old or over, may qualify. This latter contest will be general throughout the state and not divided among congressional districts. A five-acre farm of level, fertile land, valued at from \$50 to \$80 an acre, will be the first prize. The contest is to see who can devise the most feasible and practical plan for a five-acre farm. The plan must be accompanied by a short written statement setting out the contestant's arguments in favor of his plan and why the crops he proposes should be planted. It is a step in the direction of intensive farming, the necessity of which is becoming more and more realized in the grain belt. Word has come back from Idaho, Washington and other northwestern states that transplanted grain-belt farmers are making a good living on ten-acre and even five-acre tracts. In Clarkston, Washington, a retired railway engineer who spent the greater part of his life in the engine cab of a Minnesota railroad is making a good living and sending his son to college off the products of one acre. Practically as good results can be obtained from the same methods of intensive farming in the grain belt. Undoubtedly the tendency of the day is toward the cutting up of the present large farms and the more thorough working of smaller tracts of ground. The Missouri contest should result in a quickening of interest in the movement.

Other grain-belt states could well afford to follow Missouri's example in this respect. The plan is not copyrighted, but is open to adoption by any and all states. This section of the country has never appreciated the value of boosting. Southern California has been built up to its present high state of prosperity as much by men who have set forth its attractions to easterners as by any exceptional blessings of nature. The sooner the grain belt learns that it has even better opportunities and that nature is as prodigal here as in the newer sections west and southwest, the better will be its chances for a material advancement which shall surpass any thus far made.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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WIDTH OF THE HIGHWAY.

The governor of one of the corn-belt states recently placed himself on record as favoring the cutting down of the highway from sixty to forty feet. His suggestion has been the subject of considerable discussion since. While the general subject of good roads has become somewhat hackneyed, this phase of it comes at us in a new way and it is something that every land owner should consider. Of course, many of us have a selfish interest in the subject, because if the highway is ever made narrower it will mean the acquisition of a strip of land. To favor the cutting down of the roads, however, for that purpose only, would not be regarded as an exhibition of the highest form of patriotism. The important question is, will the cutting down of the width of our highways contribute to the improvement of the traffic surface? It is a matter that must be settled by all the people and all that our public men or our editors can do is to agitate it. We would like the readers of The Homestead to express their views on this important subject through the columns of this paper. Are you in favor of cutting down the width of our highways, or do you prefer to have future improvements made without altering the width, and what are your reasons for the stand you take?

ALKALINITY IN SOILS.

The following communication has been received from a subscriber in Blackhawk county, Iowa:

I would like to have your opinion concerning a soil condition existing in a fifteen-acre tract of land here. I plowed up the same two years ago as original sod, after tiling it. The land lies rather high and is now well drained and has never been much wet. Some blue grass and a short curled sort of slough grass grew on it heretofore. After preparing the seed bed I planted it to corn. It came up in patches all over the field and never grew more than one foot the entire season. In other places it partly developed and in others the corn was fairly good. In 1909 I again planted the field in corn with the same result. What would you advise me to grow on it this year? The soil is a rich black loam, two to three feet in depth, on a clay and sandy mixed subsoil.

This is without doubt a case of excessive alkalinity in the soil. The proper step, however, has been taken to correct it because drainage is the real remedy for this condition. The cure can be hastened, however, by applying a few hundred pounds of gypsum per acre or by applying farm-yard manure. Men sometimes hesitate to put manure on rich land, preferring to apply it to their land that is considerably worn. This is a case, however, where it will pay and pay well to make an application of farm-yard manure.

As to the kind of crop that ought to be grown on this land previous to the time when the alkalinity is corrected, it may be said that no crop of much economic value will amount to much on this kind of land where the alkali is very strong. Flax will do better

than small grain and corn, however, and millet will stand more alkali than any crop in the whole list. If the underdrains do not remove the water quickly from the worst spots in this field, it might be advisable to do a little surface draining with a plow so as to cut down surface evaporation to the greatest possible extent.

FEEDING FERMENTED COTTON-SEED MEAL TO HOGS.

It is well known that the continued use of cottonseed meal in even moderately large quantities is unsafe and frequently fatal, particularly in case of swine, but the high feeding value of the meal and its low price, comparatively speaking, has led to inquiries by a number of the experiment stations as to the cause of the injurious effect of the meal and to attempts to find practical means of using the material with safety.

Fermenting the meal has been one of the means proposed for lessening the danger from its use, and some of the stations have experimented with the fermented meal as a swine food. The most recent report on the subject is by R. S. Curtis, of the North Carolina Experiment Station. He used fermented cottonseed meal as a partial substitute for corn meal in experiments with young growing hogs during a feeding period of six months. The experiment began in January and ended in July and was divided into two periods of three months each, the rations being reversed at the beginning of the second period.

During the winter months it was necessary to prepare the rations from two to three days in advance of feeding, in order to have them thoroughly sour. After the weather became warm, however, twenty-four to thirty hours were generally sufficient to bring about the desired condition. In preparing the feeds the shelled corn and combinations of cottonseed meal and linseed meal with corn were weighed out into tin buckets, in the proper proportions, well mixed, covered with water, and stirred thoroughly. The buckets were then placed on a shelf and allowed to stand until the rations were fed.

Four lots of six pigs each were used. One lot received corn alone, another one part of cottonseed meal to seven parts of corn, a third one part of cottonseed meal to four parts of corn, and the fourth one part of linseed meal to four parts of corn.

Corn alone was found to be an undesirable ration, causing small gains and unthrift. This condition was probably more marked on account of the fact that the corn-fed pigs were closely penned without pasture, yet other lots similarly confined made relatively larger gains.

Very satisfactory results were obtained with the fermented cottonseed meal when fed in small quantities for a limited period, the indications being that seventy-five to ninety days is the limit of satisfactory feeding of this material. This depends, however, on the age and condition of the hogs, the supplementary feeds, and the proportion of cottonseed meal used.

The lot fed a combination of corn and cottonseed meal in the proportion of four to one made larger and cheaper gains during the first ninety days than the lot fed corn and linseed meal in the same proportions. It appears, therefore, that while the cottonseed meal used in these experiments cost about one-fourth less per ton than the linseed meal, it had a higher nutritive value, as indicated by the larger proportion of protein present.

Farmers would, according to the results of this department, be safe in feeding fermented cottonseed meal to seventy-five-pound shoats in quantities ranging from one-sixth to one-fifth the total ration, by weight, for a period of seventy-five to ninety days.

The feeding of the four lots of hogs during the first period was more profitable when one part of cottonseed meal was added to the ration of four parts corn than when corn alone or corn and linseed meal in combination were fed. In case of linseed meal, however, the greater cost of gain was due to the high price of the feed, and not so much to its lack of efficiency in making gains. Barring this one factor, and the possible danger in feeding cottonseed meal, the two feeds, according to the results of this experiment, are ap-

proximately the same in feeding value when fed for the time stated.

With corn and cottonseed meal each costing approximately the same, the results of this experiment show clearly in favor of the combined corn and cottonseed meal ration, considering always the limitations given as to the amount fed and length of feeding period.

The practical application of these results would not be to feed under the conditions here described, but rather to feed the corn and cottonseed meal in connection with grazing crops. This experiment was carried on under adverse conditions to render safe conclusions possible.

When fed with judgment, cottonseed meal can be made a valuable adjunct to corn as a ration for hogs.

Cottonseed meal, when fed in the quantities stated, will, after a time—100 to 120 days—apparently reduce the normal gains and profits therefrom. This point should be kept in the mind of the feeder, the amount of feed used recorded, and the hogs weighed occasionally. Accurate judgment will direct when to eliminate the meal from the ration. Aim to feed under the limit, however, rather than over.

In experiments at the Texas station, the results indicated that fermented cottonseed meal, at the rate of not more than one-fourth of the total weight of the grain ration, could be fed longer without bad effects than unfermented, and that the use of green feed still further lessened the danger.

While the experiments which have been made indicate that cottonseed meal, either fermented or unfermented, can be profitably used as a hog feed under certain conditions and restrictions, still the use of the meal is accompanied by some uncertainty as to the final effects, indicating that the conditions under which the meal can be fed with absolute safety are not yet definitely determined.

It is quite evident from the experiments reported that while fermenting may lessen the danger from the use of cottonseed meal as a hog feed, it does not entirely remove it.

SPRING OR FALL-SEEDED ALFALFA.

The following communication has been received from a subscriber at Waverly, Mo.:

I am considerably interested in the growing of alfalfa and contemplate putting in a few acres in the near future. I shall consider it a favor if you will give me some information concerning the best time to sow it, whether it is advisable to sow in the spring or in the fall.

In Missouri, Kansas, Oklahoma, Iowa, Illinois and eastern Nebraska, alfalfa will do better if seeded in the fall than it will if sown in the spring. The reason for this is not difficult to understand. When alfalfa is sown in the spring it has to compete with all the annual weeds present, while in the case of fall sowing, such weeds as start in the fall succumb to the influence of weather conditions later on, as, being annuals, their roots cannot live over and this results in giving the alfalfa crop clear sailing in the spring.

When the average man undertakes to grow alfalfa he feels that he must first secure a crop of grain from the soil, after which the seed bed is prepared and alfalfa seeded between the 10th of August and 1st of September. That method is entirely practicable, though men who have had experience in growing the crop generally claim that it is advisable to give up the use of the land during the spring and summer when alfalfa is to be seeded in the fall. This affords an ideal opportunity to destroy weeds and to conserve moisture. On the other hand, if a crop of oats, for example, is produced, the supply of moisture is pretty well pumped out of the soil and there is a possibility of not having enough moisture to germinate the alfalfa seed and therefore give you a uniform stand. In some instances, however, the rainfall is sufficient to bring the crop along in splendid shape, even though a grain crop is first produced. We will not place ourselves on record as advocating the one plan under all circumstances because it is a problem that each man must work out for himself. In any event it is not advisable for any man to sow a large acreage of alfalfa to begin with. Better start out with a few acres and get a little ex-

perience in handling the crop, and after that the details of preparing the ground and seeding can be worked out in such a way as to properly fit into conditions.

WHAT ABOUT THE SEED CORN SUPPLY?

One instance has already been brought to our notice where seed corn sold at a farm sale for \$13 a bushel during the month of January. This particular batch of seed had been picked late in September and hung up in airy quarters. It seems like an outrageous price, and it is an outrageous price, but it shows that the farmers in that particular locality had become aroused to the seriousness of the situation, otherwise the bidding would not have brought prices up to that high point.

The Homestead knows from the reports received from practically the entire corn belt that good seed corn is a scarce article. We know that while a large percentage of corn growers have already taken up the matter of testing the seed, yet on the other hand, possibly the great majority are allowing the matter to go over until the month of March. Whether the seed corn is tested now or later, we know that nearly every man who depends upon corn that was in the field at the time of severe frosts has a disappointment in store for him. An instance came under our notice where good-looking corn tested out 8 per cent. In other words, eight ears in this case out of 100 were suitable for seed. There were a number of weak ears, but weak corn is very little better than corn that absolutely refuses to grow at all.

Nothing should be taken for granted this year, because even the expert who thinks he can tell by appearance whether corn will grow or not is liable to be greatly mistaken. We have examined more than one ear of corn that looked as if the germ were perfect, only to find upon testing that it was not vital. Our only hope is that every man who cannot buy good seed will be able to find the good ears in the field or in his crib by a system of testing. Pick out enough good-looking ears to fill your tester, test it out under normal conditions and discard everything that does not appeal to you as being "strong," after which the task must be repeated over and over again. Even if only ten ears in 100 can be found that will grow, this percentage will more than justify all the labor involved. It may necessitate putting ten times as much labor on your corn than you anticipated, but with a convenient tester to start with, even then the task is not an impossible one. Putting the corn in the tested can be done by children just as well as not, though an adult should be present to supervise the work so that everything is done with the finest possible discrimination.

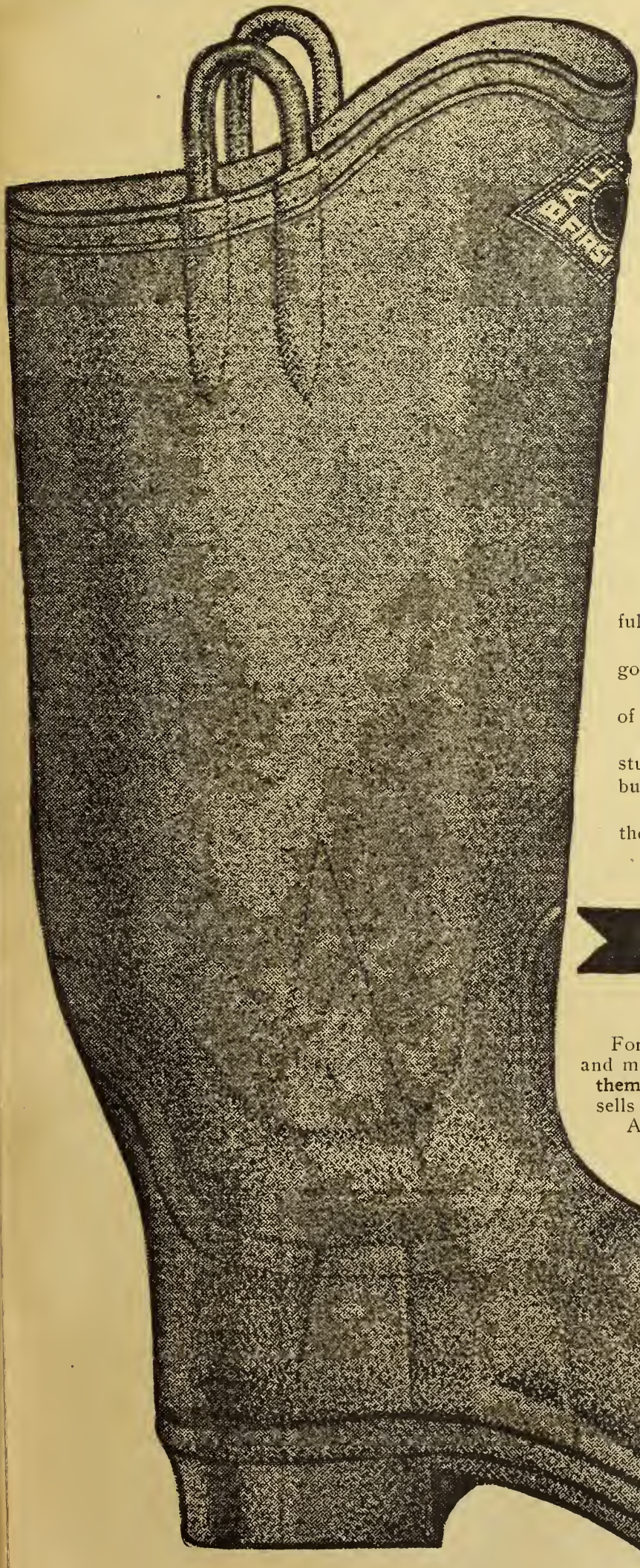
The Homestead has simply this to say in conclusion, that the man who does not thoroughly test his seed corn this year before planting it, will receive no pity from his neighbors when he finds next summer that he has a stand that cannot possibly make a profitable crop.

A Kansas editor insists that while quail hunting is good sport it is unprofitable. This is his record this year: "Bought a new gun, \$22. A hunting coat, \$3.85. Went quail hunting four times, and shot away approximately sixty-five smokeless shells each day—say 250 shells for the four days, cost \$6.50. Paid shares on livery \$6. Paid for lunches and 'ammunition' other than cartridges \$6. Incidentals, cigars to treat the farmers, etc., probably \$2.50. Total paid out for this year's hunting (if he hasn't overlooked anything), \$46.85. He killed 'the limit,' or twenty quail each day—eighty birds in all, at a cost of a fraction less than fifty-nine cents per bird. Of course he has the gun and the coat left, but counting them out, his birds still cost him almost twenty-seven cents each. That's pretty high for such small birds."

A Kansas editor notes that the farmers are always in favor of having paved streets in town, and the city folks invariably are unanimous for good roads in the country.

We Sacrifice Profits of \$1,000,000.00 a YEAR

to Put QUALITY Into "BALL-BAND" Rubber Footwear



We could make \$1,000,000.00 profit on "Ball-Band" Rubber Footwear this year, just by taking it out of **quality**, which we have always put in. Neither the dealer nor the consumer could tell the difference at the time the goods were sold.

But the test of **service** would soon reveal the use of an inferior compound in the manufacture, and the next year our sales would slump.

The "Ball-Band" business has grown to vast proportions **because** we invest millions in **extra quality**. If "Ball-Band" quality is worth that much to us, it also means much to you.

We make and sell annually \$10,000,000.00 worth of Rubber Footwear, in a plant which is the largest of its kind in the world.

Our factory, with its 40 acres of floor space, is equipped with wonderful machinery of special design and manned by **men who know**.

Men who have mastered the art of handling rubber so as to produce goods of remarkable **wear-resistance**.

Men who are skilled in the countless operations involved in the making of "Ball-Band" footwear.

That's the secret of the whole proposition—we put the right kind of stuff into the goods, and they are made by people who understand their business.

And every pair must pass the most rigid inspection before it receives the trade-mark that means an absolute guarantee of quality.

Always Look for the Red



"Ball-Band" Trade-Mark

**NOT MADE
BY A
TRUST**

Forty-five thousand dealers sell "Ball-Band" goods and many also sell other brands of Rubbers which **cost them less**. There is therefore sometimes a greater profit to the dealer if he sells "something else" at the "Ball-Band" price.

Look for this on the Heel

Always look for the little Red Ball—the Trade-Mark which we place on every pair, and be sure you get what you pay for. **It's there for your protection.** Considering the extra wear that you get out of a pair of genuine "Ball-Band" Rubbers, it is economy to buy them.

"Ball-Band" Rubber Boots are flexible and comfortable, they are strong and serviceable, and made to stand hard knocks. Soles are of **double thickness** and made to wear.

The "Ball-Band" Trade-Mark on every pair means that our guarantee is behind them. This same trade-mark appears on our lumbermen's socks, knit boots and arctics. Ask your neighbor, who has worn

them, what he thinks of them, and when you ask your merchant for "Ball-Band" see to it that you do not get "something else." When you see the red ball you know you are safe. (11)

Get Them of Your Dealer

Mishawaka Woolen Mfg. Co., Mishawaka, Ind.

"The House That Pays Millions For Quality"

THE LAND OF THRIFTY FARMING



A Grain Belt Farmer Describes Agricultural Methods in Germany, Where Ten Acres Make a Big Farm and Where Intensive Farming Methods are Resulting Splendidly



IT IS an acknowledged fact that there are no better tillers of the soil in the corn-belt states than our German-American farmers. They seem to possess the farming instinct in an unusual manner and to be capable of bending every energy to the accomplishment of success. The little things about the farms which are so often neglected by native American farmers are given full consideration by them. It is for this reason that they succeed so well as dairy-men, as gardeners, as stockmen—in short, wherever attention to details and the exercise of frugality and economy is needed to insure the greatest financial success.

That this tendency is a racial characteristic is shown by the following letter by Mr. George B. Hill, of Wisconsin, who spent a recent summer traveling about among the farms of continental Europe:

"Generally speaking, the German Empire is so thoroughly cultivated an area as man has turned his hand to. If one follows the popular impression, he is much more likely to conceive the Teuton of today as a professor, or a war lord, or a maker of wind-up toys, than as a farmer; yet the well-informed 'Landsmann' will tell you, as a matter of pride, that only a scant 8 per cent of his country can now be counted as unproductive, and of that remnant, the great part can be put down as naturally beyond profitable cultivation.

"Not only is Germany farmed widely, but well. Their wheat crop runs thirty bushels to the acre, not as an exception, but as the rule. In 1906, rye, their principal bread crop, averaged over twenty-five bushels, while Wisconsin, a good rye state, did no better than eighteen. The German hay crop commonly exceeds three and three-quarter tons an acre; they do still better.

"Yields like these look good to the American farmer, and, naturally, he wants to learn the combination that unlock's nature's treasury so liberally to his German brother. If he is familiar with the extensive work of the Empire's experiment stations in hooking up pure science for the service of agriculture, he may put down the German success to advanced and exact scientific methods. The large East Prussian 'estates' are indeed models of up-to-date system, though even there they do not go far beyond the best standard of our American West. The bulk of Germany's produce, however, comes not from the estate, but from the little farm, worked in simple style by one family, with a yoke of oxen and a limited acquaintance with station bulletins. As a matter of fact, the German succeeds by unremitting, close work, and unrelaxing thrift—by doing well on a very little and making the most of what he has.

"The German faces a far different farm problem than the American. The latter has all the opportunities of a spacious land, which the European would call undeveloped, with a population that the European would call sparse. The American farmer, consequently, does business on a large scale. He plans in terms of forties; his average sized farm, in our West at least, covers between 100 and 260 acres. In comparison, Germany seems too crowded for elbow room. On an area something under four times that of Wisconsin, they are maintaining a population of sixty millions. The little manufacturing sub-kingdom of Saxony has 780 people to its square mile, and even agricultural Bavaria, supports 223. Now the German farms independently—each household for himself—and there must be indefinite division of the land to go round among the myriads of households. Close to half of Germany's farms are plats of one hectare and under—the hectare being the equivalent of 2.47 acres—and 42 per cent more are under ten hectares.

"This makes necessary a care and closeness of cultivation beyond anything America sees. On our easy standard, the southerner, for instance, figures a forty as a 'one-mule farm,' because it can be handled, efficiently, by a single darkey and his four-legged supplement. To the German, the one-mule farm would be a regular domain. His ten or twenty acres take not only his own work, but that of his family, including the good wife. The selling end falls to her: on market days she presides over the big baskets in the square of the German equivalent

of the county seat; but between times she is ready to handle scythe or rake or fork, or herd the dozen cows, if the farm boasts that many. Herding is a recognized part of the day's work, for all Germany is innocent of fences. It looks as if they grudged the space. At any rate, every lot of grazing animals, and every flock of geese, has its guardian genius, usually the daughter of the house, aged ten, armed with a stick, and tremendously important. Even the dogs work; the Germans have followed the Flemish example, and their two-wheeled hand carts go to market with the dog doing his share in harness underneath.

"The farmer lives, not on his land, but in the 'dorf,' where the houses and barns of ten to fifty families huddle in a compact settlement. They did this in the older day for protection, and they do it today partly out of conservatism and more out of sociability. Early in the morning they disperse onto the land, the farmer going perhaps two miles to his particular patch. He plows slowly, and does a good job. His drainage is all surface; he leaves a dead furrow around the edge of his grain field, and after a rain banks that edge again with mathematical exactness, by hand. He cultivates early and often, by hand, going through his sugar beets as carefully as if they were strawberries. He harvests by patches, as the grain comes to exact maturity; it is no uncommon thing to see a field with two-thirds its grain in shocks, and backward patches still standing irregularly, until it comes to the exact state that suits the critical eye of the husbandman. Is it a wonder that he gets consistent, bumper crops, when he grows them on a market-garden basis?

"His implements are primitive. His scythe is the short, wide-bladed product of the local blacksmith. His fork is wooden and home made, from a three-pronged stick, the tines reinforced and held in place by a crossbar or a heavy withe. To call this peasant crudity is natural, but a mistake. A self-binder would be a white elephant on a ten-acre farm, even if the owner had the capital to sink in it, which, generally speaking, he has not. Just as he replaces high-priced meat with cheese in his bill of fare, so he saves by using the home-made fork in place of the high-priced steel article. He makes up for the handicap with a little extra elbow grease. His methods are primitive, not owing to ignorance, but thrift; labor-saving methods are luxuries on ten acres.

"Where land must be economized, it is obligatory for fertility to be. It is here that the peasant proves that he is no crude farmer. He fertilizes with the skill and care of a market gardener. Germany mines commercial fertilizer for all the world, but not, to a great extent, for home use. The preservation of farm manure is a regular fetish, in German agricultural practice. Mark Twain was not exaggerating far when he said that the Black Forest farmer's standing in the community depended on the size of his manure heap. Liquid manure is preserved to a remarkable extent, and in the thrifty Rhineland the large farmers cart it in tanks to the fields and sell it there, by the twenty litre measure. It is customary to follow the harvest with a heavy dressing of manure which is plowed in at once; fall plowing is then the rule and the plow is very commonly followed with the harrow, even where no crop is to occupy the land over winter. The Germans, now, are conserving their city sewage. The Berlin plant, established chiefly to clarify the drainage water before returning it to the river on which the city stands, has made a vacant tract of

sand hills the most productive area of the country.

"It is a matter of conscience with the German to give the soil back its own. Consequently, there are no 'abandoned farms' in Germany.

"The crowning achievement of economy of resources is, however, in the sections that are not according to our standards, farmed at all. Some American tourists were looking down from the view-tower behind Heidelberg into the green Neckar valley. The lower levels were checkered with miniature German farms, little oblongs fitted together closely as cells of a honey comb. Abruptly, above them on the slopes, began heavy forest that stretched away over the farther ranges. 'Look at those poor little pocket-handkerchief farms, when there's all that woods undeveloped, just beyond them,' said a tourist pityingly.

"A German at his elbow startled him by a reply in English: 'The Herr has error,' he said, defensively. 'The forest there is our best crop.'

"It was literally true; to the German, the forest is not an area of exploitation, but a vast field planted to a permanent crop. He does not leave it; after one thoroughgoing cutting, to grow up to scrub poplar and brushwood, or to be reforested laboriously by planting, when the people down stream find what deforesting does to their water powers. The German harvests carefully, taking his big trees and everything scrub from among the straight young growth. He takes the whole tree; the small branches go for firewood, and whatever is not worth cartage he burns on the spot, rather than leave it to burn unexpectedly later and take the young growth with it. This costs, but he gets his hat back presently when the new growth matures, clear and straight and even, and is cut from among still another young crop. He never replants; the forest replants itself, indefinitely. He never has a forest fire, nor an erratic stream source, nor a timber famine. He has, instead, a timber crop of 20,000,000 cubic meters—or something over 5,000,000 cords—and as much again of firewood. A quarter of the empire is still under forest, and although in a country of scarce and precious land, it is kept so. It pays.

"The small-scale thrift that characterizes the Empire's agriculture is hard to appreciate in large-scale America, but we get the force of an example like the German forests. It is thrift on a grand scale—the highest development of the German's habit of making the uttermost of what he has."

The three-course system of farming is almost the only one possible in peasant communities in Europe. In most of them the arable land is divided by immemorial invariable custom into three portions—the winter, the summer, and the fallow field. We can see in almost every south German parish farming as it was when the land was first divided up. Century after century has passed, new vegetables have been introduced—roots, tobacco, hops—but the system has remained unaltered. The arable land changes year by year in rotation of three. Till the feudal system was abolished, this method of farming could not be altered, as the charges on the land were computed by it. But, though the tithing of the crops has ceased to be exacted, it is not much easier to work a change in the three-course system, so hampered is the farmer by the rights of his neighbors, and the danger he incurs of being sued for trespass or damage should he break the customary routine. If a property does not abut on a main road—and this is only the case with a

few—the owner is laid under the yoke of old custom, and cannot adopt a more rational system, for he cannot get to his land except at the customary times. Consequently, continual cultivation is only found in large farms.

The meadows as a rule follow the course of the streams, but often lie on dry soil, as on hills and the rough ground that breaks in upon tillage-land. Meadow land, like arable land, is parceled out.

But the greatest subdivision is found among the vineyards. Of these the majority of portions are less than, say, ten rods. The peasants possessing vineyards are almost always in comfortable circumstances.

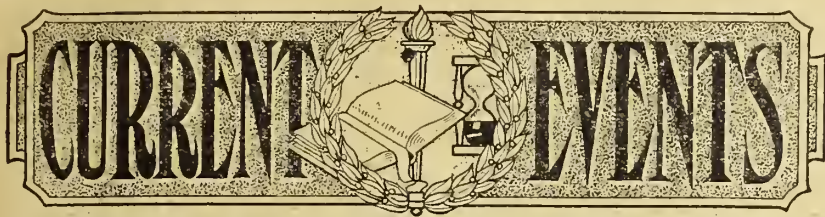
Pasture land is generally common land. But in some cases it is parceled out in strips like the



IN EUROPE EVERY FOOT OF GROUND IS UTILIZED AND SMALL FIELDS DOT THE LANDSCAPE LIKE SQUARES ON A CHECKERBOARD.

meadow and tillage. I have seen a whole family watching three sheep and a cow whilst grazing, to prevent their trespassing upon a neighbor's pasture, there being no hedges, but an invisible line drawn between two stone pegs to separate the estates. Such parceled pastures are common.

The average size of a peasant's property can hardly be given. In fertile districts an estate of seventy acres is rare, and a bauer with such a property would be looked up to as a man of wealth. Where the land is poor, it is different, so that no general rule can be made to apply in all cases.



THEODORE ROOSEVELT will return to America from his African hunting expedition about June 15th. It is planned to give him a rousing reception in which the entire nation will participate. Tentative plans of the demonstration have already been laid before him and have been approved. It is proposed to have the New York League of Republican Clubs act as host in conjunction with prominent organizations and individuals from all parts of the country. President Taft will participate if he is in the country, but it is possible that he may be on an Alaskan trip at that time. Colonel Roosevelt has been absent from America since a few weeks after quitting the White House. It was his original intention to supplement the African hunting trip with a journey through Europe, but the present plans call for a return to America this summer. In the meantime both friends and enemies are busy planning for the ex-president's future. It has been suggested that he be made senator from New York or mayor of New York and even that he be commander of the proposed American expedition in search of the South Pole. One thing, however, is certain, Colonel Roosevelt will decide for himself. He never was a man to let events run their course without at least attempting to hold up his personal end. All the advance plans are mere idle pastime, for Colonel Roosevelt has a will of his own and will dictate what his future shall be.

IT IS to be hoped that President Taft will go to Alaska this summer as planned. Alaska is a great and rich country. It holds the key to

CLEAR-HEADED.

Head Bookkeeper Must be Reliable.

The chief bookkeeper in a large business house in one of our great Western cities speaks of the harm coffee did for him:

"My wife and I drank our first cup of Postum a little over two years ago, and we have used it ever since, to the entire exclusion of tea and coffee. It happened in this way:

"About three and a half years ago I had an attack of pneumonia, which left a memento in the shape of dyspepsia, or rather, to speak more correctly, neuralgia of the stomach. My 'cup of cheer' had always been coffee or tea, but I became convinced, after a time, that they aggravated my stomach trouble. I happened to mention the matter to my grocer one day and he suggested that I give Postum a trial.

"Next day it came, but the cook made the mistake of not boiling it sufficiently, and we did not like it much. This was, however, soon remedied, and now we like it so much that we will never change back. Postum, being a food beverage instead of a drug, has been the means of curing my stomach trouble, I verily believe, for I am a well man today and have used no other remedy.

"My work as chief bookkeeper in our Co.'s branch house here is of a very confining nature. During my coffee-drinking days I was subject to nervousness and 'the blues' in addition to my sick spells. These have left me since I began using Postum and I can conscientiously recommend it to those whose work confines them to long hours of severe mental exertion."

"There's a Reason."

I look in pkgs. for the little book, "The Road to Wellville."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

the coal situation on the Pacific coast. Fraud has been charged in the patenting of public lands in Alaska of immense value. President Taft should see conditions for himself. Incidentally he would enjoy a pleasure trip which it would be hard to excel.

COMMANDER PEARY, discoverer of the North Pole, was presented with a check for \$10,000, subscribed by enthusiastic New York admirers. Commander Peary immediately donated the check to a fund to outfit an American expedition to search for the South Pole in rivalry with the British expedition headed by Lieutenant Shackleton, who has come within 111 miles of the earth's southern axis. It is probable that the new antarctic expedition will be headed by Captain Bartlett, in command of Peary's arctic ship, the Roosevelt. In presenting Commander Peary with the \$10,000 check Governor Hughes made good answer to the question often asked, "Of what value is the discovery of the North Pole?" He said: "I have no sympathy with those who inquire of what utility may be the discovery of the North Pole, or a visit to these frozen regions. We can never afford to be without these examples. The journey to the North Pole may seem far removed from the life of the workman in the shop, or the clerk in the office or the busy professional man, but unless that workman and that clerk and that professional man now and then feel the stimulus of high endeavor because of such examples, he will grow weak in his own efforts and fail to show the best of the manhood that is within him. We are all, in whatever vocation we may be engaged, better tonight and more richly endowed because of the achievements of Commander Peary. All hail to the man who puts his life to a worthy purpose and wins."

A NOVEL bill has been introduced in the Kentucky legislature. It provides that a political candidate must keep all his campaign pledges. Every candidate for the legislature must file with the county clerk a written statement of his position in regard to all important pending bills. If, subsequently, an elected candidate for the legislature breaks his pledge he will be liable to indictment on a criminal charge. The bill should become a law, but it is doubtful if it will. It has only one drawback; it is not comprehensive enough in its scope. If anything is to be done in this line, why confine it to legislators? Why not make every political candidate a man of honor who must fulfil his campaign pledges? And if this is to be done, why confine it to political candidates? Why not a bill providing that every man must keep his promises, no matter when or to whom made? Politicians are not the only people who need moral regeneration. Why should not the author of the Kentucky bill try to bring the square deal into business dealings in ever day and every walk of life?

AN UNFORTUNATE mixup occurred when Charles W. Fairbanks, former vice-president, was in Rome a few days ago. He expressed a desire to meet Pope Pius X. and an engagement was made, but when it was learned at the Vatican that Mr. Fairbanks intended to deliver an address before the Methodists in Rome it was announced that he must either break the Methodist engagement or fail to see the Pope. Mr. Fairbanks elected to stand by his own denomination and contented himself with meeting the king and queen of Italy instead of Pius. The incident has been exaggerated by the daily press. It was doubtless merely a misunderstanding with officious court attaches and ubiquitous newspaper reporters most to blame.

gerated by the daily press. It was doubtless merely a misunderstanding with officious court attaches and ubiquitous newspaper reporters most to blame.

AS FINALLY determined upon the inquiry into the price of food and other necessities of life, which the senate is about to make, will cover a broad field. The measure passed with comparatively little discussion authorizes an inquiry by a special committee of seven senators into the general enhancement of values, including not only food, but many other articles used in everyday life. The investigation also will cover the question of salaries, earnings and the tariff. Not only will prices in the markets be included, but also those at the farm and at the factory. If prosecuted conscientiously and thoroughly the inquiry cannot fail to be of value, laying bare a vast amount of facts and statistics from which valuable deductions may be made. It should be conducted without regard to party or person, in order to determine once and for all whether prosperity causes high prices as a natural result or whether they tag along in the rear as a specter to be gotten rid of at any cost.

THAT the farmer may soon have a personal interest in the aeroplane is evidenced by the announcement of an eastern expert that flying machines may be used for rural mail delivery. "The practicability of the aeroplane has been fully demonstrated," says this authority, "and within two years it will be used commercially to an extent not now dreamed of. Rural free delivery for example is subject to great delays on account of storms and bad roads. With the aeroplane, however, the farmers' hard-earned free delivery would be above these difficulties. His mail would be dropped in a little pouch from the aeroplane, which would then speed on to the next farmhouse to deliver its packet. Mail could easily be collected through an arrangement by which the aerial chauffeur could lower a hook and catch up packages of mail. One of these rural free delivery aeroplanes will cover a district ten times as large as that served by the present slow wagon system." While the farmer will no doubt appreciate such rapid service, it is to be hoped that nothing will result (even in the interests of promptness) to check the movement for better roads. It is an undoubted fact that the rural free delivery has been an important factor in making good roads and in keeping them in repair. It is highly probable that the aeronaut has been carried away by his own enthusiasm and has painted a pic-

EVERY FARMER SHOULD START THE NEW YEAR RIGHT

Don't Do Another Thing Until You Investigate the Merits of
THE INDEPENDENT HARVESTER CO.

THE FARMERS' COMPANY, PLANO, ILL.

We Want You to Know of the Organization and Working of the Greatest CO-OPERATIVE Enterprise in Existence.

We want to show you how through Co-Operation of farmer, dealer and manufacturer, we are breaking the shackles of trust despotism—insuring your freedom from trust dictation.

Cut Out and Mail to PLANO, ILL.

INDEPENDENT HARVESTER CO.,
Box 6, Plano, Illinois.
Send me complete information about the Farmers' Co-Operative Machinery Co.

Name.....

Town.....

State.....

Box.....

Route.....

We want to show you that through our Co-Operative plan we are saving thousands of dollars every year to farmers and dealers everywhere.

Don't delay, but get in immediate communication with this great Farmers' Company, and learn of the liberal inducements received by becoming members of this great enterprise.

Own Your Own Factories—Manufacture Your Own Machines

Fill Out the Little Coupon and send to

The Independent Harvester Co., Plano, Ill.
The Farmers' Company **NOT IN THE TRUST**

ture which he would like to see in reality, but which will probably not come to pass for a long time.

HALLEY'S comet is due to pass the earth early on the morning of May 19th. It will be visible to the naked eye about 2 o'clock in the morning throughout the grain belt. This is the famous comet which passed the earth about seventy-five years ago and the coming of which has been anticipated by the astronomers for some time. So exact has become the science of astronomy that the arrival of the comet has been figured down to the exact hour, although it is a million times larger than the earth and is traveling at an incredible rate of speed. There is absolutely no danger, inasmuch as the comet is made only of gaseous materials and not of solids. During the past fortnight a rather brilliant comet has been visible in the western sky. This is known as the Johannesburg comet, having been first seen by scientists at Johannesburg, South Africa. It is not nearly so large or so brilliant as the Halley comet.

DEALING in futures in cotton, wheat and other agricultural products was the subject of a rather heated discussion before the committee on agriculture in the house of congress a few days ago. A number of bills dealing with the subject have been introduced, one being designed to end all dealing in futures of the products of the farm, others to regulate them so as practically to stop the trade. Texas representatives have introduced half a dozen or more bills which, if enacted into law, would prevent all cotton deals on "change." Representatives of practically all of the southern states are pledged in favor of a law along these lines and claim to have the support of several western members. Discussing the bills T. J. Brooks, of Tennessee, president of the Farmers' Union, declared "this question involves hundreds of millions of dollars and the welfare of millions of people." Mr. Brooks declared that dealings in futures of wheat are no more necessary than in tobacco and wool and farm implements. Hedging operations on "change" he characterized as no different than gambling on the rise and fall of prices. The Farmers' Union which he represents has a following in twenty-nine states and his argument undoubtedly carried weight.

No doubt the temptation with many living in the "frozen seed" belt to send south for seed corn will be strong. Don't do it. It is courting more freezing next fall, for the corn grown from southern seed will be later and more liable to frost damage than ever.

Iowa Aberdeen Angus Association Meeting

EXULTANT over the victories won by the doddies in 1909, and sanguine concerning the future outlook for this great breed, something like 100 members of the Iowa Aberdeen Angus Association met in annual session in Des Moines on Tuesday, February 8th. This was the third annual meeting of this live association, and from the standpoint of interest aroused, merit of program and business transacted, it was the most important meeting ever held by the association.

The national association secretary, Mr. Charles Gray, was present and delivered an address dealing with the benefits that are to be derived from a state organization. He pointed out that one of the main benefits that can come from meeting together annually is derived from the exchange of ideas and experiences that takes place. According to Secretary Gray the Iowa State Fair brings together more Aberdeen Angus breeders than any other state exposition. He pointed out the fate of similar organizations that were formed in the interests of other breeds. In nearly every instance they have failed for the simple reason that they have not taken up live problems. They have simply allowed themselves to drift and as a result of carrying out this policy, died a natural death. Probably no one thing in vogue in the pure-bred business gives more tiresome and prolonged trouble than guarantees, said Secretary Gray. They seem to be in the business in America to stay, and thus every breeder should be most careful in his dealings and always be ready to adjust guarantees properly. He referred to the necessary precautions that must be taken in the future to protect the herds against tuberculosis, and among other things said: "Although I am prone not to say anything in regard to the tuberculosis test question, I feel in justice to the breeders of Iowa and the widespread publicity the subject is receiving at present that this meeting cannot afford to allow the subject to go without discussion. Every breeder should avail himself of every opportunity to become informed about this disease and the laws that are being passed by the various states to prevent it. It seems sheer folly for breeders to fight the movement, as it were, because it is surely here to stay. Although the federal government and the states have not set aside money to reimburse breeders, it can be truthfully stated that they have made the hardship as lenient as possible; thus it seems the only thing breeders can do is to adjust themselves to conditions which will eventually be best for all concerned."

Preparing for a Successful Sale.

The above topic was discussed by Mr. Silas Igo, of Palmyra, Iowa. According to Mr. Igo the first thing to do will be to study your own surroundings in a very careful way and determine whether it is best to make a spring or fall sale. After having made up your mind as to about the time you want to sell, correspond with and set a date with the auctioneer of your choice, as near the date you have chosen as he could give you. Having this matter settled, make some provision for a comfortable place to sell, and then the selection and fitting of the stock should begin. If your stock is in reasonably good condition they can be put in first-class sale shape in seventy to ninety days, but if they are real thin they should be fitted 150 days. There are entirely too many thin cattle offered, and the sooner the breeders all over the country wake up to the fact that if they expect to make a success of the business they must give their cattle more attention every day in the year, they will be better off, and the better they will like the business.

After you get your stock well started along on a good ration of feed, if it is cattle or horses you are selling, you should see that they are all well broken to halter and lead, and easy to handle, or as nearly so as possible. If one goes wrong from some cause or other, keep it out of the sale. Don't try to sell something that you have to make a lot of excuses for. The catalog work should be done in a very care-

ful way by a man who understands the business, for a catalog full of mistakes is a nuisance. They should be complete and ready for distribution at least three weeks before the sale. Be very careful in getting out your breeding list. Be sure your service dates are correct; it will save lots of trouble later on.

Now comes the very important part to a successful sale—the advertising. The man selling should study his end of it; the conditions, blood lines and location should all enter into the subject, and after he has made up his mind just which papers he will use, he is ready for the field man, and this should be five or six weeks before the sale. When the field man comes, which should be by appointment, take him through your sale cattle in a very careful way, pointing out the different ones and tell him something of their blood lines. See that he gets his notes down in a way that when he gets back to the hotel he can give your herd a very forceful writeup in a short article and caution him to make his article as nearly like the cattle as he can. Then you must be sure that the cattle look a good deal better sale day than when he saw them. You are now ready for the crowd. Don't put off anything for sale day that you can do the day before. The morning of the sale all hands get out early and have as nearly everything done before the crowd comes as possible, so that you can visit with them and answer questions. See that everybody has a good lunch and be ready to begin promptly at the appointed time. Don't wait an hour for a freight train that is due, or two hours for the passenger train, expecting more of a crowd. Let the auctioneer know everything that you have to tell about the stock, and let him go to work. Don't have three or four pluggers sitting around, but make everybody understand that they are going to own every hoof cataloged.

Food Stuffs and How to Prepare Them

This topic was discussed by Prof. C. F. Curtiss, director of the Iowa Experiment Station. He first called attention to the fact that in the central West corn will always be the basis of the ration for feeding purposes, but as it is a one-sided food it is necessary to feed in connection with it by-products that are rich in protein. As protein foods have almost doubled in price during the last few years, this necessitates looking to some other source of supply than to the mill by-products. The legumes, particularly red clover and alfalfa, balance the ration more cheaply than this can be done by purchasing concentrates. Instead of having one acre of clover to forty of corn, the state ought to grow one acre of clover to every two or three acres of corn. In addition to the growing of more legumes Professor Curtiss advocated strongly the more general introduction of the silo. He pointed out that at the present time one-third of the corn crop is practically wasted because the leaves and stalks are allowed to remain in the field and thus in the main, go to waste. While formerly the silo was considered an adjunct of the dairy, it has now been demonstrated that ensilage is admirably adapted to the production of beef and because of this, Professor Curtiss gave the strongest kind of endorsement to the silo for this purpose. He advised paying more attention to the pastures and expressed his belief that as land appreciated in value we would find it necessary to keep more of our land in pasture. There is room for the exercise of just as much skill in maintaining a good pasture as there is in producing a good corn crop.

Winners of 1909.

Mr. C. J. Martin, of Churdan, read a most interesting paper on the above subject. As Mr. Martin had attended the principal state fairs of the corn belt, as well as those held outside this area in 1909, he was at home in presenting his views on this topic. He first referred to the fact that the Scotchman has excelled the American breeder in the development of bulls, a fact which he attributed to the method of feeding. Mr. Martin believes that

in America too much concentrated food is used for young animals, and as a result of this method of handling, the bulls do not attain their highest possible development. As to the female classes in the American show ring, however, he expressed the belief that each year perfection is gradually being approached. He took up the matter of appropriations made by the national association to the various shows and on this point said:

As one of your officers of the American Aberdeen Angus Breeders' Association, I have about reached the conclusion that our association is spending too much money in premiums on the breeding classes at our big shows; that a part of this premium money could be used in other ways that would do the breed and the breeders of Angus cattle more good if a part of this premium money were used in some other ways to introduce our breed of cattle in what has now become the cattle-producing territory of our country, for outside of perhaps 100 or less showmen who show breeding cattle for this premium money which our association gives in premiums each year amounting to nearly or quite \$10,000, the average breeder receives little or no good from the expenditure of this vast sum of money.

As a showman who followed the show circuit in the past with a show herd of Aberdeen Angus breeding cattle, I know the showman cannot make the rounds of the shows for less premium money than he is already winning, but all must agree that these premium moneys are paid at these shows by our association to introduce, advertise and push to the front our breed of cattle, and we must confess after nearly thirty years of the present method of advertising our breed, even in the corn belt where these shows have been held and these large premiums paid our showmen, our breed of cattle are in the hopeless minority, and even in some of the corn-belt states our breed of cattle is losing ground and we are forced to admit that our present plan of advertising our breed of cattle has not been an unqualified success. It is true that here in Iowa we are a little more favorably situated and have made some gains on the other beef breeds, but we all know that we have the greatest and best breed of beef cattle on earth and the great trouble with our plan of advertising our breed of cattle is that we have not succeeded in making enough other beef producers of cattle believe it. Land has become so high in the corn belt, which has been the territory that

we have exploited the merits of our cattle in the past, that the cattle-producing territory is being gradually forced to the west and southwest, and even into the republic of Old Mexico and it looks to me that if we are to get the greatest good out of the money expended in exploiting the good merits of our breed of cattle, that we must look to the West and Southwest and to Old Mexico to join with us in the breeding of more of these black beauties.

The hopeless minority of our breed of cattle was thoroughly impressed upon my mind last year in two trips of about 10,000 miles that I made in what has now become the real cattle-producing sections of our country. In that trip I traveled in Texas, New Mexico, Oklahoma, Kansas, Nebraska, Colorado, Wyoming and into the republic of Old Mexico, and I noted with a sigh of regret that seeing so few of our cattle in the pastures and on the ranges in these states, where the white faces, the reds, whites and roans were to be counted upon every hand by the thousands and tens of thousands, while it was the exception to see a black cow or steer in these states, and many of the stockmen of these states knew little or nothing about the great beefing qualities of our breed of cattle. But at the great shows at Fort Worth and Denver held during the past year, those few black cows and steers that I did see in these states were able to come to each of these great shows where the color of our breed is lost amid a sea of white faces, reds, whites and roans, and carry off the champion prize for the best load of steers shown at each of these shows.

I could not help but observe this at the recent show at Denver where I stood on the fence in the Denver stock yards and as far as I could see was a sea of steers with only here and there a load of blacks, yet a load of Angus steers were champions of that show, and after seeing this load of steers carry off the championship prize for the best load of steers in that show, I felt that it was possible for our association to do something to advertise the superior merits of our breed of cattle in these cattle-producing states in a much better and more effective manner than we were doing by paying such a large part of our advertising in premiums for the breeding classes at the shows in the corn-belt states, where few if any of these cattle-men see our cattle, as few of them attend our shows. I find in the corn-belt states and those that do seldom inspect the breeding classes of cattle, being interested in the steer alone.

It was with considerable pride that Mr. Martin referred to the winnings of the doddies in open classes during the



An Attachment That Harrows While You Plow

The Champion Pulverizer is an attachment for riding plows which was invented by a farmer who wanted to save time in the Spring and Fall of the year when time is very valuable to the farmer, and also to do better harrowing by doing it at the right time.

The best time to harrow is right after the plow when the soil is soft and moist, and where the Champion Pulverizer is used, the surface of the soil is so thoroughly pulverized that all the open spaces are closed and the moisture is kept beneath the surface instead of being allowed to evaporate as is the case when the ordinary method of harrowing is used. Because of this retained moisture, any field where this attachment is used will produce better crops besides saving all the time ordinarily used in harrowing.

It Will Save Its Cost in Two Days' Time

It can be attached to any sulky or gang plow in ten minutes' time, does not add any side draft and can be operated by anyone who can operate the plow.

The blades are made of soft center, plow steel and scour perfectly. It is made in two sizes. No. 1 has five blades and is intended for use on sulky plows. No. 2 has nine blades and is intended for use on gang plows.

When size No. 2 is used on a sulky plow it does the work of two harrowings as it pulverizes each furrow twice. See illustration

Thousands of these Pulverizers will be used this Spring by farmers who used them last year and who, through their use, saved several days' time.

Write today for illustrated circular, prices and testimonials from users.

Union Transfer Company,
Box A **Dubuque, Iowa.**

year 1909, particularly those at the great International Show. Among other things Mr. Martin says:

But to get back to the prize winners of 1909. I want to call the attention of the breeders here who were not at the last International at Chicago, to the wonderful exhibit of the Angus steers at that show, and it does seem to me each year as I go back to that wonderful show that the Angus steer exhibit gets bigger and better each year. Perhaps the grand champion steer of the show is little if any better than he was ten years ago, but there are so many other steers in each class that so nearly approach the grand champion in quality that I cannot help but stand and admire the many prime and ripe Angus steers to be seen in nearly every class at that show, and after the first-prize steers are selected in the grade and cross-bred classes, it seems like calling the roll of all the good Angus steers of the show, for in those classes all breeds are shown together. Last year, I believe it was, every first-prize steer in these classes was an Angus steer, with one exception, and if I rightly remember, this one steer was out of a pure-bred Angus cow, while in the pure-bred Angus classes to pass down the row of Angus steers in the judging arena fighting for a place, it could clearly be seen that it was a battle between giants, while in the other breeds it was in many cases but a sham battle between dwarfs. And in that great farm breed of cattle in which their promoters have been developing the dairy instincts in their breed of cattle, it was a sorry sight to see their steer classes lined up for the judge in the arena. Over 50 per cent of their steers were little more than a jumble of dairy junk, and some of them looked like they had passed through a corn field on their way to the show from the dairy districts of northern Illinois and southern Wisconsin.

The Doddie at Home and Abroad.

This subject was discussed by the Rev. J. C. White, who presented some facts and figures that were, to say the least, highly complimentary to Aberdeen Angus cattle. He summarized the results of the winnings of the Aberdeen Angus in the steer class at the national exposition from 1900 to 1908, as follows:

A brief synopsis of nine expositions is as follows: Out of 261 possible places Aberdeen Angus won 41.7 per cent, Herefords 32.9 per cent, Short-horns 14.9 per cent, Galloways 1.1 per cent, mixed 9.2 per cent.

In competition for championships out of nine possible championships for grades and cross breeds, Aberdeen Angus won three, Herefords two, Short-horns three, mixed Hereford-Angus one, and in same class only seven reserves were reported, which were won as follows: Aberdeen Angus two, Herefords three, one mixed Short-horn-Galloway and one mixed Aberdeen Angus-Short-horn.

Out of nine possible grand championships and nine reserves (competition open to pure breeds, grades and cross breeds) Aberdeen Angus won five of each, Herefords three of each and Short-horns one of each.

Out of seven grand champion steer prizes, Aberdeen Angus won five, Herefords one and a mixed herd of Aberdeen Angus-Short-horn-Galloway one. Only five of the seven reserve grand champion steer herd prizes were reported, two being won by Aberdeen Angus, two by Herefords, one by a mixed herd.

Out of twenty-seven possible champion awards by ages (pure breeds, grades and cross breeds competing) Aberdeen Angus won fifteen, Herefords nine, Short-horns three, and out of the twenty reserves which were reported Aberdeen Angus won nine, Herefords eight, Short-horns two, mixed (Short-horn-Galloway) one.

Out of the grand total of ninety-three champion awards Aberdeen Angus won forty-six, Herefords thirty-one, Short-horns ten, mixed six.

These facts should serve as conclusive proof of the superior merits of the Aberdeen Angus breed in the single steer and heifer competition.

The winnings of the doddies at foreign shows were then taken up and the record for 1908 given at the principal shows.

Other Speakers.

Prof. Wayne Dinsmore, of the Iowa Agricultural College, gave a most interesting address on the essential in judging cattle. He complimented the doddies as being rated first of all the breeds in the percentage of edible lean meat in the carcass, though he also took occasion to point out the danger of the breed falling behind the Short-horn and Hereford in the matter of scale. We expect to give Professor Dinsmore's address in full in an early issue of this paper, so that a further review of it will not be made at this time. Hon. W. B. Seeley, of Mt. Pleasant, was not present, but sent a most interesting paper entitled, "The Aberdeen Angus Breed." Mr. A. J. Secor was also down for an address entitled "Doing Justice to the Breed," but was unable to attend. Mr. Charles Escher, of Manning, Iowa, was called on to discuss the question of crosses of the various families and names for same. Owing to illness in his family Mr. Escher was unable to previously prepare a paper on this subject, though his extemporaneous remarks were eagerly listened to by the convention.

Premiums for Steers.

The action of the national associa-

tion at its last annual meeting, in cutting off its appropriation to the steer class at the Iowa State Fair, was made the subject of a lively discussion following the regular program. It was the consensus of opinion among those present, that the Aberdeen Angus steer classes at the various shows did as much, if not more, to advertise the breed than the breeding classes, and, in view of this, the action of the national association was not endorsed. It seems that in 1909 the national association offered the sum of \$700 in the doddie classes at the Iowa State Fair, \$500 of which went to breeding cattle and the balance to the steer classes. The same amount will be given in 1910, but the entire sum will be placed on the breeding classes. A resolution was unanimously passed in favor of petitioning the officers of the national association to adopt last year's division of the funds for the 1910 Iowa State Fair.

The election of officers resulted in placing Col. Silas Igo in the president's chair to take the place of the retiring president, Mr. J. Auracher, of Shenandoah, Iowa. Mr. W. J. Miller was made first vice-president, and Mr. Charles Russell, second vice-president, while Mr. J. M. Graham was reelected to succeed himself as secretary-treasurer of the association.

The Homestead desires, in closing the report of this most interesting meeting, to say to breeders of Aberdeen Angus cattle in Iowa, that the membership in this association should be greatly enlarged. The membership fee is only \$1 a year, and that amount sent to J. M. Graham, secretary, Indianola, Iowa, will entitle any breeder to membership in the association. Instead of 100 members, or such a matter, it should be at least 500 strong. The Homestead calls on every Aberdeen Angus breeder to do his duty by his own association, which duty for the present simply involves the payment of the membership fee.

SHREDDING CORN FODDER.

To the Editor of The Homestead:

This is my third year for shredding corn fodder and of the three, the present one has been the most difficult to manage on account of snow and ice, and a part of the time, too, it was very cold to work outdoors.

With us it has been impossible to get much shredded fodder ahead. We are continually running short making it necessary to feed more heavily on hay. Our experience in feeding fodder is to feed it out in the first half of the winter along with some hay, saving the largest and best part of the hay for the latter part of the winter and spring. When corn is cut at the right time and properly shocked, shredded fodder makes a valuable feed. Cattle or horses when fed this in a manger will pick it over very clean, leaving nothing but the very coarsest of it which I think makes the best bedding that can be had for any and all kinds of stock. It absorbs the moisture and saves the stable liquids. Any one who has a large quantity of manure to handle every spring will appreciate the fodder being shredded as it is much easier to fork when there are no long stalks mixed through the manure pile. On our farm we have a seventy-bushel manure spreader with which we have to haul one hundred loads every year.

While I have never done any custom work, I might be able to give some close estimates by my experience on our own farm. Take a field of corn that will go sixty bushels to the acre; a fair load at the machine will shuck out fifteen bushels, and it will go through our four-roller machine in twenty to thirty minutes. Sixty bushels on one acre would take two hours. We don't see much use in figuring on hauling, as we have that part to do any way, but it will take three or four teams and wagons—depending on the distance—hauling to keep this sized shredder going. If a gasoline engine is used I would figure on fifteen cents an hour for gasoline and lubricating oil. As for extra help we have none; there are two of us and we go to the field with one or two wagons. When we come in with our loads we start our machine, using a gasoline engine for power. One of us feeds the machine while the

other one puts the bundles on the table. The feeder can cut his own bands if he has a special knife made for that purpose, which knife is buckled to his wrist. All blowers are supposed to have a hood on the end of the blower pipe. You can turn this in different directions so that you do not need a man in the mow unless you are expecting to fill it very full. A blower will throw fodder across a thirty-foot mow if inside a barn where the wind cannot interfere with it.

If a blower is used I should say that it would be very unsatisfactory to try to stack shredded fodder. My experience has been that it is the hardest to handle in the wind of any feed. When the wind takes anything out of shredded fodder it is the feed part that goes first and the coarse part of stock or what we use for bedding goes last or remains. To keep shredded fodder we think it necessary to have it under a roof, in a

mow or some place to protect it from rain and wind.

If fodder is put in a mow with the expectation of keep it until late spring and into warm weather, it must be in the right condition when shredded or it will spoil. See that there is no wet fodder put into it. The right condition is when it is just soft enough to handle without loosening the blades.

W. W. Thayer.

Brown county, Kan.

"Raise fish," says a Kansas University man. He is going to devote himself to the work of inducing every farmer in the state to start a fish pond. He argues that fresh fish bring about the same price in the markets as good beefsteak and are much easier and less expensive to raise. He claims that one acre of fish will yield a better income than ten acres of wheat, corn or alfalfa, which he says is the history of the industry in Germany.

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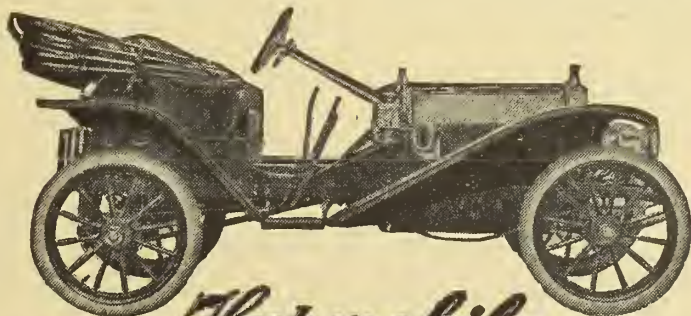
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WHEN TEDDY WENT A HUNTING.

As Ted was hunting one hot day,
He heard a zebra bray a bray
Because it could not coo,
But a cuckoo would and cooed and cooed,
And a ringdove would and wooed in the wood,
While a toucan took a new canto.

One day as Teddy rode along
Seated on his dromedary,
'Twixt Bingabang and Bingabong
He spied a giant cassowary.
Says Ted, "That bird I will impound,"
Then prodded up his dromedary;
But Teddy failed, for lo! he found
The cassowary "werry" wary.

One day when riding near a mount,
He also saw a catamount,
But what does a catamount amount to?
But Teddy then held up his mount
And saw the catamount mount the mount,
Then spurred his mount to mount the
mount, too.

This has been a terrific winter on all lines of business. Some men laid plans to derail and rob an express train out West, and meeting at the appointed place they loosened a rail and piled ties on the track. Poor men, the train was so late that they all froze to death before it came through.

What a sensation is created when a man goes up into the air a thousand feet in an airship, yet men in congress have been going up as high as that for the past ten years and at times both houses are up at the same time.

A garter snake saw a bicycle tire on the ground that had a hole in it. The snake crawled into the hole and just as its tail was disappearing a black snake saw it and catching it by the tail began to swallow it chasing it around the inside of the tire. When the black snake's tail disappeared through the hole the garter snake began to swallow it, and each swallowed the other "intire."

A lady asked a clerk to show her a particular kind of goods that she wished to purchase. The affable clerk was very bow-legged, but with his sweetest smile—ambling towards the back of the store—he said: "Walk this way, please." "Walk that way?" said the lady. "Good gracious! I couldn't without danger of falling and breaking my neck!"

Tough Luck.

A foot racer who ran 100 yards faster than any one else could hired out to a farmer and was so slow the cows ran over him and killed him.

A jockey who had driven a horse in 2:08 hired out to an undertaker and the hearse ran over him and killed him.

An aeronaut who had been up a mile high in a balloon fell off a dray and broke his neck.

A miner who had been a shotfirer using hundreds of pounds of nitroglycerin was killed by the explosion of a percussion cap that struck him in the eye.

A cavalryman who had served six years in the regular army fell off a plow horse and broke his neck.

A sailor who had been around the world three times was drowned in a creek only three feet deep.

A hunter who had killed scores of bears, panthers and buffaloes died from the bite of a weasel.

A man who had worked around machinery all his life lost a hand by getting his fingers caught in a rat trap.

A man who was born and raised in Manitoba, went to Texas and froze to death.

Verily environment and chance change conditions.

Have You Seen the Comet?

Comets are the bankrupts of the planetary system, "busted planets." They travel with their tails over their backs, like wild steers, and cavort about through space free from entangling alliances terrestrial or celestial. Many of them are periodical and their regular reappearance can be foretold; others become visible

from the earth only at long intervals. These are the genuine hoboes of the sky. The principal uses of a comet are to excite wonder and to give the astronomers an excuse for writing long treatises, founded sometimes on theory, at others on scientific deductions, both of which are sometimes right. A comet is like a peacock, pretty much all tail. There is nothing about one except its going and coming that is of any interest to any one. If I owned a comet I would trade it for a star at the first opportunity.

Working the Hens Overtime.

A farmer has played a mean trick on his chickens this winter. He has electric lights in his hen house which are connected with an electric clock in his bedroom. He sets the alarm to run off at one o'clock and that turns on the electric light and tips over a pan of wheat in the hen house. When it is light the rooster begins to crow, the hens get down and eat their breakfast, and then each lays an egg. At two another alarm runs off, which turns the lights off and the poultry all go to roost again. During the day they each lay another egg, and the result is fourteen eggs per week from each bird. The hens lose some flesh from "ovawork" and the rooster is getting hoarse, but the farmer is piling up the wealth and has ordered an airship for next season. He feeds his hens plaster Paris to enable them to manufacture the shells on short order. It is a money-making scheme.

Shall Molly Marry a Drunkard?

Molly Darling writes to ask us if she should marry a man who gets "jagged" on Saturday nights? That depends a great deal, Molly, on yourself. If you think you can be happy with a couple of kids hanging to your skirts begging for something to eat when there is nothing in the house to cook but the frozen hoof of a Jersey bull, with only two chair legs and the mop handle to build a fire with, take him, Molly, by all means. It may be the making of him, for there is nothing that pleases a drunken man so much as a cheerful fire and bull-hoof broth.

You should keep all the old clothing you have and solicit a prenuptial shower of the cast-off clothing of your friends. They will give them to you more cheerfully before you are married, Molly, than they will after you have nothing left to wear but cast-off clothing. It will be so humiliating to them to see you wear the hat to the mite society that one of them has used as a clothespin basket for three years and hear them say: "I should think she might have given her something decent while she was about it." Take all the old clothes you can get, Molly, that will not sell or that your husband cannot trade for whisky.

Or, if you are strong and willing to take a nail hammer and break both his legs the first time he comes home drunk and then throw him out of the chamber window, that will also be in your favor. You should stand in with the authorities of some hospital and make a standing contract with them before procuring your marriage license for a rebate from usual prices by agreeing to keep one cot occupied all the time so long as your husband lives and then carry the contract out faithfully.

No drunken husband is so safe or so agreeable, Molly, as one with two broken femurs. It will also be well to have just as good a time as you can and secure all the happiness possible before you are married, for you will have no time to be happy afterwards.

The Saturday night jag is not considered in the best society as a necessary adjunct to matrimony, although it is practiced more or less in all stations of life. Marriage, Molly, is really the end of trouble, but usually the first end.



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OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

TERMINATION OF TENANCY.

An Iowa subscriber writes us for information as to the legal rights of the parties upon the following state of facts:

A tenant has a place rented for a year, ending on the first day of March, at which time a new tenant is to take the place. On account of bad weather the first tenant's corn crop remains unpicked in the field on the first day of March and the new tenant wants the use of the field without delay.

The popular opinion would doubtless be that the first tenant is in no wise blameworthy or at least is excusable for not removing his crop before the expiration of his term, and that it would be a great hardship upon him to make him suffer for consequences which are so apparently the result of the elements.

By the terms of the rental contract the tenant was entitled to hold possession of the rented premises till the first day of March, and then he was to surrender possession of them to the landlord. The time arrives, and the tenant does not surrender the place as he agreed to do. He offers as an excuse for not performing this part of his contract the fact that the weather has prevented him from getting his corn crop out of the field. The only question therefore is, does the condition of the weather operate to legally relieve him from a strict performance of his contract?

So far as the binding nature of its obligations are concerned, a renting contract does not differ materially from any other kind of a contract. The object of all contracts is to bind the parties to a performance of their agreements. In making them, parties are expected to exercise ordinary prudence and foresight. A party to a contract will not be excused by law from the performance of it, unless he can show that performance was rendered impossible, and that the impossibility was of such a nature that a prudent man would not have foreseen and provided for it; in other words, an impossibility brought about as the books say, by "the act of God." This does not include such conditions as heavy rains, unusual floods, high winds, deep snows, extreme cold, or other conditions which may and do come about from time to time, and are not unexpected, though sometimes unusual in severity and duration.

Mere hardship or difficulty of performance, is not sufficient to excuse non-performance,—nothing short of impossibility is sufficient.

Iowa is not entirely free from bad weather in the late fall and winter. Indeed, uninterrupted pleasant weather, and good roads are not to be expected during these seasons of the year, and it is no doubt hard work, at times, to dig shocks of corn out of frozen mud, husk it, and get it out of the field, but nobody could be made to believe that it is impossible to get the corn out of any field in the state between the time it ripens and the first day of March.

The wise men of the state in legislature assembled, with full knowledge of climatic conditions, have practically declared that a mere cropper has ample time to get his corn crop off of rented premises by the first day of December, and that his lease expires not later than that day, unless otherwise agreed upon.

The law of Iowa also provides that where an agreement is made fixing the time of the termination of the tenancy, whether in writing or not, it shall cease at the time agreed upon, without notice. Also that a tenant willfully holding over after the term, and after notice to quit, shall pay double the rental value thereof, during the time he holds over, to the person entitled thereto.

Applying the foregoing principles to the case stated in the beginning, the result is as follows: It is the duty of the first tenant to get his corn off of the premises at or before the expira-

tion of his term. If he holds possession after that time for the purpose of removing his corn, he will be liable to his landlord for double the rental value of the place during the time he so holds over.

The second tenant is entitled to possession of the place at the beginning of his rental term, and if he is prevented from getting it, by the occupancy of the first tenant, he can recover from the landlord whatever amount of damages he sustains by reason thereof.

It is proper to add, that neither the landlord nor the second tenant would be justified in injuring or destroying the corn of the first tenant, by turning stock in the field, or otherwise; but the landlord has a lawful right to enter upon the rented premises at the expiration of the first tenant's term, and to put him off of the place without legal proceedings, if he can do so peaceably, and without a breach of the peace, and he may authorize the second tenant to do so. But if this cannot be done peaceably, a suit of forcible detainer will have to be brought against the first tenant, and in such case, the landlord should at the expiration of his term, serve him with three days' written notice to quit, before bringing said suit.

LAW QUESTIONS CONSIDERED.

TENANT'S PHONE NOT A FIXTURE.

A Subscriber, Marshalltown, Iowa.—A owned two farms. He lived on one and rented the other. There is telephone connection with both places. A owned the phone and a share in the line connecting with the farm where he lived, and his renter owned the phone at the rented premises, and the share in the line at that place. A recently sold both farms to B. Before the sale the renter notified the agent that the phone and share belonged to him, but he did not tell the buyer. Can B hold the phone and share of the renter?

Answer.—He cannot. The phone having been placed in the leased premises by the tenant for his own use, and the share being his own property, they do not constitute fixtures to the rented premises, but belong wholly to the tenant.

MARITAL TROUBLE—CHILDREN.

A Reader, Riverton, Neb.—I have been married nineteen years, and I have always treated my wife right, but it has been in vain. She now wants to leave me and take the children with her. They are all under age. The only reason she gives for wanting to leave me is that she hates me. Nothing that I do or say pleases her. She demands that I give her half of everything I own. I have a farm here, but there is a heavy mortgage on it. Can my wife lawfully take the children and compel me to give her half of my property?

Answer.—Your wife has no right to take your children away from you, and no right to demand any of your property. She cannot get the custody of the children, nor any of your property by law, unless you have done something, or do something that gives her good grounds for a divorce. It is her duty to remain at the home you have provided. If she leaves without good cause, and takes away the children, you can recover possession of them by law.

SAWING LOGS—OWNER OF SLABS.

A Subscriber, Postville, Iowa.—A and B together, got together a lot of logs to be sawed into lumber on A's farm, and then hired C to come and saw them for \$6 per thousand. Who is entitled to the slabs?

Answer.—A and B, the owners of the logs, are entitled to the slabs. Under the contract stated C has no lawful claim to them.

SUIT IN FEDERAL COURT.

A Homestead Reader.—A number of men planned a conspiracy by which part of them were to commit acts in violation of section 5508 of the revised statutes of the United States, and the others were to impede and obstruct justice in the federal courts when proceedings should be instituted for such violation. (1) Can the party against whose rights the said acts were committed join as defendants in one action, for damages, all the men, that is those who committed the wrongful acts, and those who agreed with them to interfere with the courts? (2) Would the plaintiff in such action in the federal court have to advance any of the costs? (3) About how much would the costs be? (4) What would be a reasonable attorney's fee for prosecuting such a case, and is it customary to advance fees to an attorney in such a case?

Answer.—(1) All the parties who conspired together and took part in the scheme, could be joined in one action for damages. (2) The plaintiff would have to advance all costs made by him as the cause proceeds. (3) It is difficult to estimate the amount of costs which the plaintiff would have to advance from time to time, they would probably be not less

(Concluded on page 30.)

An All-Purpose Plow!

Think of this—one single plow, suited for all soils, all conditions, all purposes—a Universal Plow. Implement makers for 40 years have tried to make it and failed. **WE HAVE SUCCEEDED.** A year of field testing has proved it to ourselves and hundreds of enthusiastic farmers.

Think of this—a plow that will turn over SOD without kinking—turn under STUBBLE of any kind and not leave a bit of trash showing—turn under CORN-STALKS with the same perfection, every stool covered—which will turn a 2-inch slice with 18 inches of weeds and cover every spear, or an 8-inch slice under the same conditions equally well.

And, furthermore, will do this in **ALL SOILS**—sand, clay, waxy bottom, gumbo—stony or gravelly—and leave a **perfect furrow** with the bottom **clean as a floor.** No dirt spilled over into the furrow or slopped forward onto the land.

It will not only do all the work just described, but do it with **less draft** than any other gang plow built, cutting the same width of furrow.

Performance Guaranteed

We absolutely guarantee the satisfactory performance of this plow. We have proven it under all conditions—by field tests from the wheat fields of Canada to the cotton fields of the South, and from the sands of California to the waxy gumbo of Arkansas. It makes one plow do the work of a dozen or more, and if more than one plow is owned, makes every one of use where the need is imperative. No wonder farmers get enthusiastic about it.

ROCK ISLAND UNIVERSAL (C.T.X.) BOTTOMS

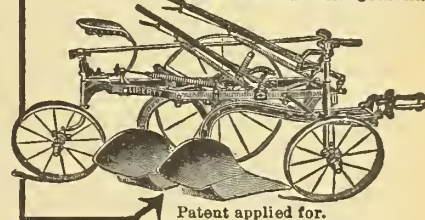
Now Ready on our Liberty Gang Plow

Our wonderful invention has already started to revolutionize the plow business, and in side of a year or two there won't be a plow in the country which will not be equipped with this **modern miracle of mechanics.** We shall eventually equip all our plows with this bottom. Our celebrated Liberty Gang Plow is already equipped. It has kept us so busy filling orders for this that we haven't been able to get to the others. The Liberty Gang has become so well known for ease of operation, easy draft and wonderful durability during the years it has given satisfaction in all parts of the United States, that no description is necessary, further than that it has all the good points of all gang plows with their weaknesses and disadvantages overcome.

If you can use a Universal—all-purpose plow, which in one implement will do better work than all the plows you have put together, you must **ACT QUICKLY.** Our mammoth factory is already clogged with orders—it's a case of first come, first served. So order from your Dealer **NOW** for delivery as soon as possible, or when you need it—either one. Don't be put off—don't even look at anything else. There is **NOTHING** just as good or a hundredth part of it.

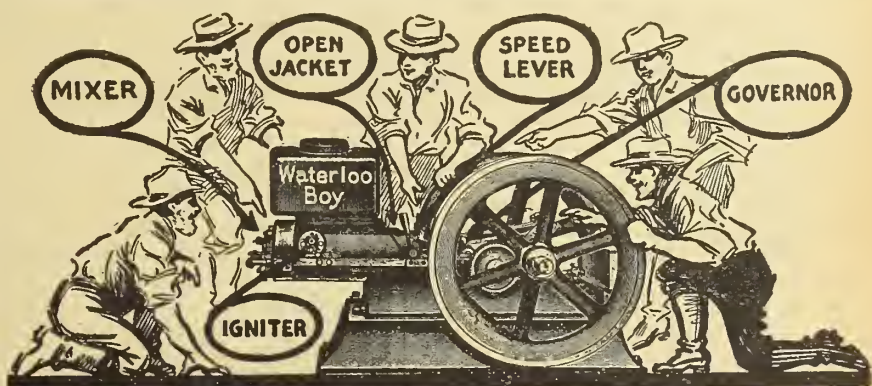
Write us if you want descriptive circulars and nearest dealer's name. Will answer promptly, so the delay won't count against you. (17)

Note the peculiar corkscrew, auger-like twist of the mouldboard. A slice of any thickness spreads out evenly over the surface without crimping, and turns clear over, burying all trash completely. No spilling over into the furrow or slopping forward onto the land. We control the shape of the mouldboards. They cannot be used by any other manufacturer without infringement.



ROCK ISLAND PLOW COMPANY

Rock Island, Ill.



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The Waterloo Boy has all the Good Points that go into any Gasoline Engine

5 YEAR GUARANTEE

and it doesn't take the up-to-date farmer long to discover them and their value to him. It is the number of practical features embodied in an engine that determines the degree of satisfaction it will give to its owner. All gasoline engines have some good points, or there would be no sale for them and they would soon be taken off the market. Some engines have more good points than others, that's why some engines are better than others.

Waterloo Boy Gasoline Engines

have all the good points that go into any gasoline engine, besides many exclusive, patented features that increase their efficiency and durability; make them marvels of simplicity and wonderfully economical engines to operate. That's why we say the Waterloo Boy is the best engine for farm use.

You can buy a Waterloo Boy for less money than you will be asked for engines containing half of the good points we hold into our engines. Besides we will send a Waterloo Boy to any responsible farmer and let him try it for thirty days on his farm doing whatever work he has to do. We will pay the freight both ways and return his money if after a month's use he can't pick out the good points for himself—if he can't see that it is the one and only engine that will give him complete satisfaction.

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HINTS·SUGGESTIONS·DEVICES

We extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

SPARROW DESTRUCTION.

The sparrow's habit of nesting in cavities can be turned to account against it. By providing one-room bird houses, or even packing boxes or tin cans, and putting them in trees or on poles or buildings at a height of about ten feet, the birds may be captured

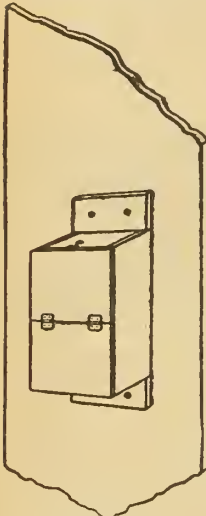


FIG. 1.

after dark with the aid of a long-handled net. This net should have a deep bag and a small hoop made to fit the front of the boxes closely. After the net has been quietly placed over the entrance, a few raps on the box will send the tenant into it. Dilapidated buildings may sometimes be fitted up for catching sparrows in this way, as well as for destroying their nests and eggs. Fig. 1 shows how this can be done. An ordinary wooden box may be nailed to the inside of the building over a hole made to admit the sparrows. The box should be arranged so that the top or upper part of the back can be lifted to gain access to the inside. The box illustrated in Fig. 2 is designed to be hung on a building or a tree. Its floor should be about six inches square and its height at the eaves about eight inches. The roof should be hinged at the top for removing the eggs or young. Such boxes may be built of rough boards at slight cost. By distributing a number of them about orchards, shade trees, and outbuildings, and catching the sparrows that occupy them, or by destroy-

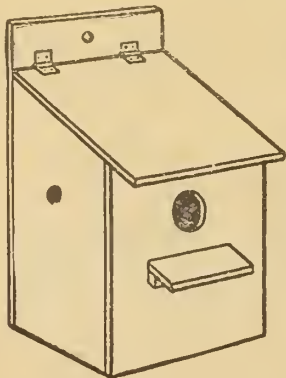


FIG. 2.

ing eggs, the work of extermination may be carried on at a season when other methods are least effective. Traps alone are inadequate to exterminate sparrows, but a reduction of numbers can be effected by using a shallow box not less than four feet square, open on one side and covered with woven wire on the other. One side of this trap rests on the ground, while the opposite side is supported by a stick eighteen inches long. Near the upper end of this stick is attached a long cord, and between the top of it and the edge of the trap Fig. 3, is placed a chip. By setting the trap over bait and pulling the cord from a sheltered point of observation when a

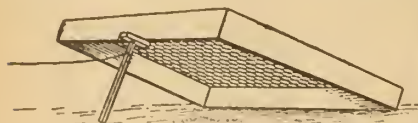
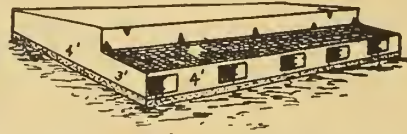


FIG. 3.

flock of sparrows is beneath it, numbers of them may be caught. Instead of the box described above, by which the birds are taken alive, an old door or similar device may be employed as a deadfall. In either case the trap

should be kept set and baited until the sparrows are not afraid to go under it. The best time for trapping is just after a snowstorm when the birds have been fasting. Then, if the ground be cleared and chaff and grain be put under the trap, the birds will crowd in and enable the trapper to secure nearly all of the local flock. If any escape they will spread the fear of traps, and before long very few of the birds can be induced to go into one.

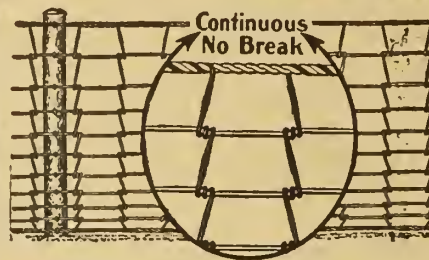
A neighbor has constructed out-of-door coops for his hens and their flocks in the following manner, says C. O. Thomas, of Kansas. He laid a cement floor 7x20 feet. One this he built a coop from twelve-inch boards, as illustrated. The back part of the coop is boarded solid with the exception of the doors, which are the same as shown in the front of the screened portion. The roof may be made in two parts, each ten feet long, using four hinges instead of two; this would allow easier handling of the roof, which is to be turned back on the hinges,



when one wishes to clean the back part of the coop. The roof may be covered with tar paper or roofing. The front of the coop is twelve inches high; it has a frame covered with poultry netting, which is also on hinges, to be turned up when one wishes access to any of the front portion. Each of the

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are made so they never sag or bulge out of shape. They will outlast other fences for the wires are heavy and rust-resisting. Cyclone Fabric can be erected on uneven ground. Cyclone Fences are made in many different styles of many attractive patterns, using either steel or wood posts. It will pay you to look into this matter of fences and in order that you may know about Cyclone Fences we send our Style Book free.

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Farm



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Iowa Gates

hang close to the ground and have barb wire at bottom, so they are hog and chicken tight. You can raise them a little to pass over slight obstructions or swing up high enough to let hogs run under or to swing over deep snow drifts. They are made of High Carbon Steel Tubing, not common gas pipe, but specially made, double strength tubing that is heavy enough to turn all vicious stock.

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AMERICAN FENCE

Made of Hard, Stiff Wire, of Honest Quality

Good Fences are a farm investment that bring the most returns for the least money

ARE you losing money? If you had a hole in your pocket, out of which you were losing hard-earned dollars, would you sew it up? The time has arrived when a fence around the farm is as much a necessity as a cultivator.

If you are feeding 60c or 70c corn to hogs in a dry lot, allowing good, green feed to go to waste on other portions of your farm, you have a hole in your pocket, out of which you are losing good, hard-earned dollars. Sew it up.

Look up an American Fence dealer and let him show you how a few dollars invested in fence will yield a big big rate of interest on feed saved.

American Fence is made of hard, stiff steel. It is made of a quality of wire drawn expressly for woven-wire-fence

purposes. Galvanized by latest improved process—the best that the skill and experience of years has taught. Built on the elastic, hinged-joint (patented) principle, which effectually protects the stay or upright wires from breaking under hard usage.

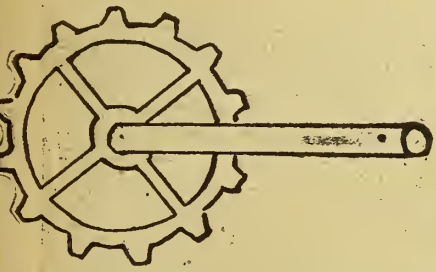
The real test of a fence is the service you get out of it. Test, judge and compare American Fence under any and all conditions, and you will find that the steel, the structure and the galvanizing are equal in durability, strength and efficiency to the hardest usage.

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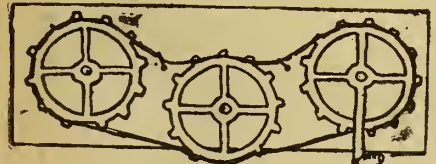
NOTE.—Dealers everywhere. See the one in your town and have him show the different designs and give prices. Also get from him a booklet, "How to Build a Cheap Concrete Fence Post," furnished free for the asking.

five coops is divided into two compartments. The front, or screened portion, is 3x4 feet. The back portion, which is solid except for the door opening into the screened portion, is 4x4 feet, and is one foot high at the back, and two feet high in front. Two hens and their flocks are usually put in each coop. The screened compartments are used to feed in, and allow the flocks plenty of sunshine and light when it is not advisable to let them run at large.

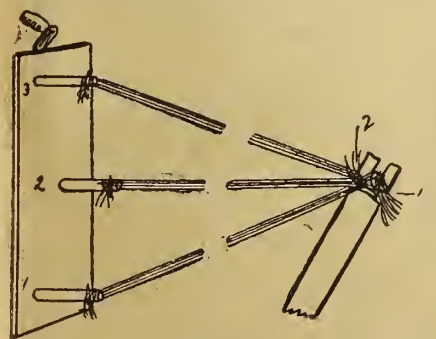
A Homemade Rope Machine.
First, take a piece of two-inch plank about four feet long and secure three sprocket wheels from some corn shell-er or old binder, the wheels to be about six inches in diameter or thereabouts. These wheels should have a piece of shafting on them, long enough to go through the plank and protrude about an inch and a half on the other side. The three wheels should be all of the same diameter and the same



size sprocket. Bore three holes in the plank, the size of the shafting on the sprocket wheels. See to it that there is a hole drilled in each piece of shafting that is attached on the sprocket wheels, about a quarter of an inch from the end, as shown in Fig. 1. This small hole will be sufficient to hold a hook which I will explain later. Having served the three pieces this way proceed to put the shafts through the holes in the plank. Now secure a sprocket chain from any old binder that will fit the above sprockets and put on as shown above. Now secure a crank and attach it to right sprocket wheel as shown in Fig. 2. Leave enough shafting protruding on wheel No. 1 to attach the crank to. Next is the little spreading stick which can be whittled out of a piece of board two inches wide, one inch thick, six inches long. By cutting three notches in it the machine is com-



plete and ready for the binder twine which the rope is to be made out of. Now take a ball of binder twine and start on spreader board which is held by any child or man, in an upright position and start the twine in the center top notch; take to hook No. 2, Fig. 3, back to spreader board and in back through the top notch around through notch No. 1 on side, and up to hook No. 3 and back and around board, then through notch No. 2 and back. Repeat this until you have about ten strands



on each hook, the person still holding the spreader board while some other party turns crank to right. This will twist the separate hooks of twine at the same tension, as all of the sprocket wheels are the same size. After they have been twisted tight enough, which can be plainly told by the looks of it, stop turning crank and take hold of the ends of twine behind spreader

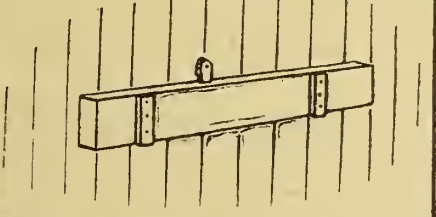
board with one hand, while you shove board toward machine, still leaving twines in grooves while twisting or rather turning the strands behind the spreader board to the left as they come through. The twine will at once twist up into a perfect rope. After you have twisted up to the full extent, or as far as the board will go up to the machine, take twine off of hooks 2 and 3 and put on hook 1, then take out the board and turn the crank in the opposite direction. This will tighten the rope, which makes it more solid. A halter can be made in this way at the small cost of two to three cents and you have a rope that will not ravel at either end. The size of the rope may be made to suit the operator by putting more or less time on. A stacker rope or a hay fork rope may be made to cost \$2.50 or \$3.00 while a new one would cost \$7 or \$8.

A Meat Barrel Cover.
This sketch shows a meat barrel cover that can't be beat. Get a barrel that has top and bottom and saw it



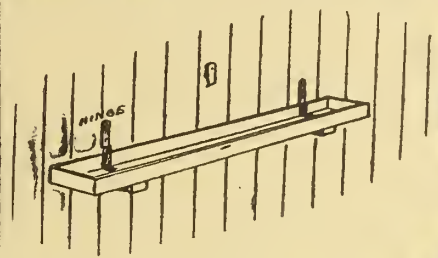
through in the middle, making two tubs. Use these tubs for covers on meat barrels by turning them over the barrels as shown in the sketch and they will assuredly keep out the dust and moisture.

A Convenient Calf Trough.
A subscriber from Paullina, Iowa, has been using an ingenious method for feeding his calves. It was suggested to him by the fact that he used



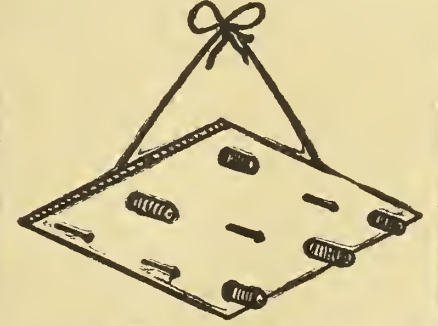
a manure spreader in his sheds and consequently all obstructions that extended out a foot from the wall were in the way. As calves require a low manger, one can be hung on hinges so

that when it is turned up it will not occupy more than five or six inches of space out from the wall. It may be any length, but it is better to have it made in sections about six feet long.



The accompanying illustrations show the trough when it is all ready for feeding purposes, and also when it is hooked up close against the wall.

The "Busy Housewife" Spool Holder.
Take a piece of board 6x12 inches and cut into a diamond shape, as illustrated, cover with any cloth you may wish, a bright colored velvetene makes a pretty effect; into this drive



wire nails just far enough to hold in place and which leaves the greatest length projecting to hold the spools. These may be gilded with gold paint or any color you wish and when a ribbon is tacked on the back to hang it up with, it makes a very pretty as well as extremely useful ornament for holding the spools of thread in the sewing room, avoiding all the bother of having them lying all over the table or machine.

THE ONLY WAY TO BUY A FARM.
Buying land for a home without knowing all about it is blind and foolish speculation. Settlers or homeseekers should go down and investigate conditions for themselves before buying. The Western Louisiana Settlement, at Pickering, now developing, situated along the Kansas City Southern Railway, has issued an illustrated booklet, free on application by any one interested in that coming country, having plenty of rainfall, with healthful and pleasant climate, where good farming and the best fruit and truck land in this country can be had for \$10 an acre, on easy terms. Address J. D. LaBrie, General Land Agent, 539 Keith & Perry Building, Kansas City, Mo.

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Why weight per roll is a false test of value

Fence Buyers:—The greatest fallacy in judging fences is the one of considering weight per rod or per roll as the measure of strength or value.

See! Here are two fences of equal weight. The one on the left is burdened with holding devices—whether they be clamps, wraps or ties they add waste weight. The stay wires of this fence are smaller than the line wires—a point of weakness. Every wire in the fence shown on the left is smaller than the smallest wire in the fence on the right, the

"Pittsburgh Perfect" Fence

and yet the "Pittsburgh Perfect"—made of larger and stronger wires—line and stay wires all the same size—is of the same weight per rod (or per roll) as the weaker fence. That's because there is no waste weight—no clamps, no wraps, no ties in the "Pittsburgh Perfect". It is electrically welded at every contact point—

One Solid Piece of Steel Throughout.

Judge the fence by the size of the wires. That is the only sure test of strength.

The "Pittsburgh Perfect" Fence costs less than any other fence made of the same gauge (size) wire.

Every wire in it is of open hearth steel galvanized by our improved process. 73 different styles for every fence purpose. Your dealer sells it. Write for free catalog.

PITTSBURGH STEEL CO.

PITTSBURGH, PA.

Honors for Dr. S. A. Knapp

DR. SEAMAN A. KNAPP, one of the most progressive farm authorities the grain belt has ever supplied the nation, was honored by having the degree of LL. D. conferred on him last week by the University of Wisconsin, which follows the example of Upper Iowa University, Baylor University of Waco, Texas, and the Iowa State College of Agriculture. Because of his great and lasting work in elevating the standards of farm life and work and particularly in interesting the boys to stay on the farm, the honor was justly bestowed.

Dr. Knapp is essentially a product of the grain belt, although he was born in New York. Graduating from Union College at Schenectady, N. Y., in 1856, he removed to Iowa ten years later and settled on a farm in Benton county. From 1872 to 1879 he was engaged in farming and in writing for farm papers. During these early years he was instrumental in the organization of the first Iowa Fine Stock Breeders' Association. From 1880 to 1886 he was professor of agriculture and for part of the time president of the Iowa State College of Agriculture at Ames.

In 1886 Dr. Knapp removed to Lake Charles, La. For a number of years he was engaged in the agricultural development of the southern states, especially of the territory surrounding Lake Charles. During that period he assisted in farmers' institutes and was engaged in agricultural writing for that section. During these years he was also operating farms of his own, engaged in the cultivation of rice, cotton and other southern products.

In June, 1898, he was first given an appointment in the national department of agriculture at Washington. During that year the department sent him to Japan, China and the Philippine Islands as an agricultural explorer, with special reference to the rice crop of the Southwest. The result of his exploration was the introduction of Japanese rice into the Southwest. He exercised a very large influence in building up the rice industry of Louisiana and Texas and was president of the Rice Growers' Association of America from its organization until 1908, a period of eight years. In 1900 he made a trip and special report with regard to the agricultural resources of Porto Rico, and in 1901 he made a second trip into the Orient for the department of agriculture. From 1898 to the present time he has constantly held appointment from the department as a special agent.

In 1904 he first took up the Farmers' Co-operative Demonstration Work in Texas. This work was organized primarily for the purpose of furnishing a demonstration of the best method of combating the ravages of the Mexican cotton boll weevil. The work is carried on among the southern farmers, and it enables the farmer to demonstrate to himself by actual trial that the better methods of cultivation recommended will prove an economic success. He does all the work and furnishes the land and the seed, while the department simply furnishes the directing agent and the knowledge. The result has been an unqualified success wherever the directions were followed. Yields have been increased two, three and even four times, and a vision of the possibilities of farming opened to the farmer himself and those about him. Now Dr. Knapp has turned his attention to the farmer boy. The whole movement proceeds upon a few simple principles with a few plain objects in view.

Dr. Knapp believes that it is worth while to get a boy to form a good purpose and to work persistently toward its accomplishment. If a number of boys can be induced to strive for the same goal, in a spirit of friendly rivalry, it adds zest to the lesson to be taught, stimulates observation, study, industry and economy, and the resultant good is multiplied many times. The plan, briefly outlined, is this: Generally the work is done by co-operation between the agents of the Farmers' Co-operative Demonstration Work and the school authorities of the county and state. The county is usually organized by interesting the county superintendent of public education, who

enlists the teachers in the work, and so, through the co-operation of the superintendent, the teacher and the agent of the department at Washington, and also the parent of the boy, the boys of the school are organized into a corn club.

Each boy agrees to plant and cultivate an acre of corn, generally on land furnished by his father. Advice as to method of cultivation, selection of seed and planting is furnished by the department at Washington. Generally, the first year the seed is furnished to the boys from some well-established variety and from well-tested and selected seed, the funds for its purchase being often subscribed by local bankers, business men and friends generally. After the first year the boy is urged and instructed to select his own seed in accordance with approved modern methods of seed selection. One of the principal and most emphasized rules is that the boy must follow some plan of culture and must agree to read the printed instructions on corn growing sent out from the department, which are written as part of the Farmers' Co-operative Demonstration Work by Dr. Knapp. No trouble at all has been experienced in getting local bankers, merchants, school authorities and private individuals to offer different prizes in the contest which results. Where there is a county fair, the contest in the county is held at the fair, otherwise at the county seat on a day selected in the fall. It is the plan to have the best exhibits at the county contest, the winners of the prizes there exhibit at the state fair, and thus determine who has done the best in the state. At every exhibit, whether in the local school, at the county fair or at the state fair, talks on farming and corn judging and seed selection are given by experts from the department or by local farmers.

In 1909 Dr. Knapp personally offered a prize of a trip to Washington to the boy winning the prize in the state contest in the state of Mississippi; the state bankers' association of Arkansas offered the same prize in that state, and enterprising citizens of Virginia and South Carolina duplicated the offer in those states.

The winners of the prizes in these

four states went to Washington in December, 1909, and spent a week at the nation's capital city, where Secretary Wilson presented them with certificates of merit at his office on December 14th. In a brief address to the boys the secretary said that they and boys like them are the only hope of the nation for continued prosperity and greatness. He commended their energy, and the energy and spirit of the people of the South in their growing prosperity, both in manufacturing industries and in agriculture; he told them that these diplomas were unique, that no other boys had ever before received similar recognition of merit in agriculture, and that nothing that he had done since he had been secretary of agriculture had given him more pleasure than this presentation. There were approximately 12,000 boys in the clubs last year under the direct supervision and instruction of Dr. Knapp's office. Of course there were some clubs in the South not directly affiliated with his organization which were doing good work. The coming year it is expected that there will be 35,000 in these clubs, and that all will be directly affiliated.

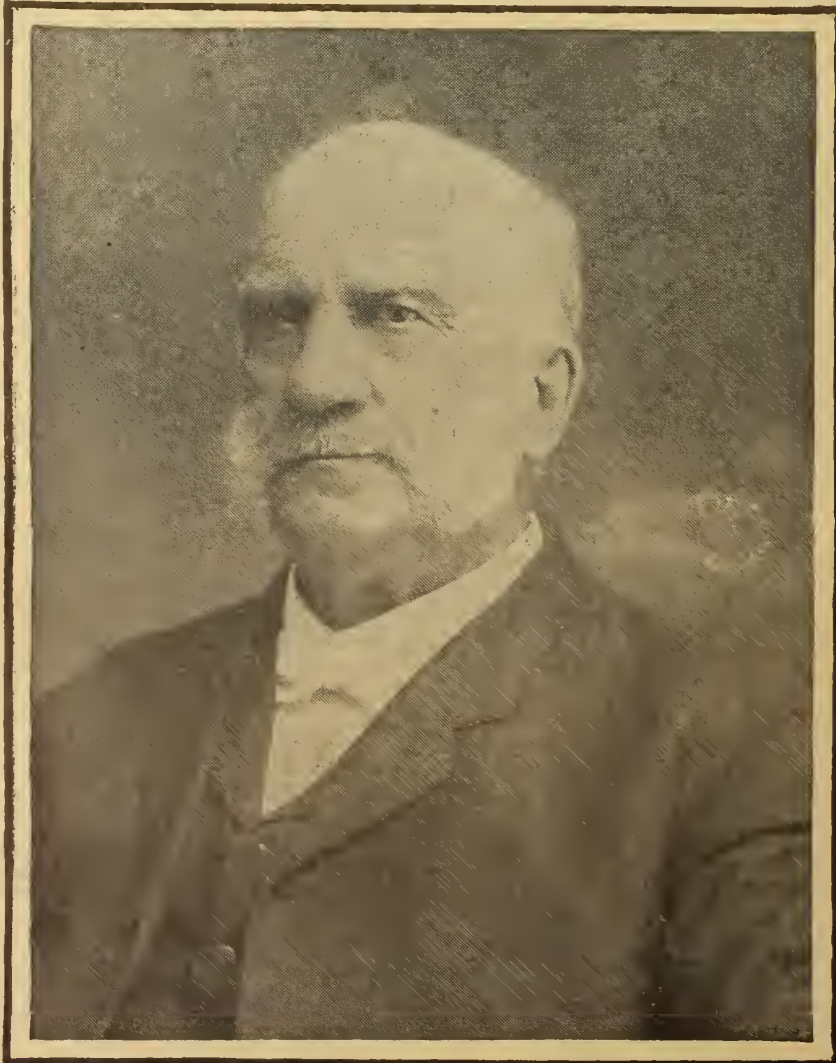
THE EARTH FLOOR FOR HOGS.

To the Editor of The Homestead:

I have a hog shed floored with woven wire. About a year ago I floored a shed 16x24. Before putting the wire down I filled with dirt so that it was a little full in the center, then dug trenches at each end. I then stapled the netting wire to 2x4 pieces and buried them, drawing the wire tight. After it was all covered the laps were all wired together about every foot and then the whole was covered with dirt about an inch over the wire, after which some coarse bedding was added. I then thought I had a floor that I would be proud of and one that the hogs wouldn't bother, but it wasn't long till the bedding was pulverized and the dirt tramped down till the wires were showing and now they have it broken in a number of places. Part of the blame may be mine for not keeping more covering over the wire in the way of dirt or coarse bedding, and part, I think, is in the wire I used. I am sure some other make of wire would have been better in this case.

George M. Penland.

Marion county, Kan.



DR. S. A. KNAPP.

Improvements in Corn Planters.

Great improvements have been made in the corn planter. Time was when the round-hole flat drop was pretty good, and by the way, it's good now. Well, some inventor thought that the grains being more nearly uniform as to thickness than they were as to size when laid flat, that the planting of the corn on its edge was best. What we want with a corn planter is a machine that will drop just as many hills with three grains to a hill as possible. Some farmers buy the edge drop and then wish they had bought the flat drop; some purchase a flat drop and then mourn because they didn't buy an edge drop. The man who buys a Superior Corn Planter doesn't need to mourn, because he has both systems at the price of one. The planter has so many new and proven features of merit that it is impossible to tell all about them here. The Planter has been thoroughly tried out in all sections of the United States where corn is grown, meeting with the unqualified endorsement of all users. It is made by the same people who manufacture the world-famous Superior Grain Drill, and it is safe to say that the quality went into this corn planter to make it worthy of its name. Write to the manufacturers of the American Seeding-Machine Co., Incorporated, Springfield, Ohio, for full information about the Superior Corn Planter. Then go to your implement dealer and insist on seeing the Superior. It is fully guaranteed and must do all that its makers claim for it.

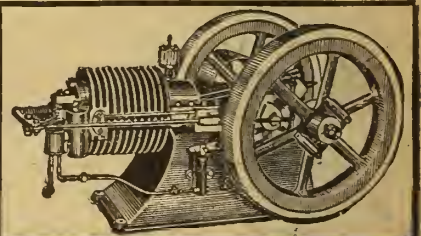
Good Roads Book Free

MAIL postal at once to get the book that tells just how to get good roads at least cost; what bad roads cost and what good roads save; how to keep roads in most perfect condition; shows accurate photographs of what

GLIDE ROAD MACHINES

have done. Cuts dirt from high places and carries it to low ones. Works equally well at any time, levels permanently. Turns dirt from edges back to center. From two to four-horse lighter draft than others. The only perfect one-man, two-horse road machine made. Does work better and cheaper than any other machine. Blade of high-grade steel—reversible and adjustable. Six-inch shoe-runners, flanged, prevent skidding. Lowest-priced good-road machine on the market. We pay freight. Write postal for book. Free trial proposition and guarantee. Address

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IT'S DIFFERENT

even from other air-cooled gasoline engines. We have no dangerous fans requiring power to run and expense to keep in repair. The Gade has no water to freeze or oil to clog. Our patented device draws fresh, cool air directly into combustion chamber, thus keeping the engine cooler than by any other method.

THE GADE GASOLINE ENGINE

by special arrangement of valves, saves one-third the gasoline. It starts as easily in cold as in hot weather. GUARANTEED to develop rated horse power and remain cool, not for a few hours, but for three or four days' steady run. FREE TRIAL OFFER—Sent on 30 days' free trial. Test for yourself on your own farm. No papers to sign or money to deposit. We pay freight both ways if not satisfactory. Absolutely no risk. Address GADE BROS. MFG. CO. 25 Main St., IOWA FALLS, IA.

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STANDARD POST HOLE AUGER

If you have fences to build, trees or shrubs to plant or wells to bore in earth, send for our catalog F.

Standard Earth Auger Co.
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Self-Discharging
Fast and Easy to Operate

The Only Planter that Plants Every Kernel Exactly the Same Depth—

Corn all comes up at same time. Cultivation 1 to 3 days earlier. Gives quicker and better results.

The Only Planter that Covers in All Conditions of Soil—even wet or sticky ground. Leaves ridge over corn, preventing washouts on hillsides. Harrowing levels ridge, making clean corn row, thus gaining one cultivation over ordinary covering wheels. Guaranteed not to clog. No stringing or scattering of seed.

• The Only Planter that Drops All Kinds and Sizes of Corn Accurately

Simplest and most efficient drop made. Never cracks or grinds the seed. Works perfect all the time and lasts for years. Cannot get out of fix.

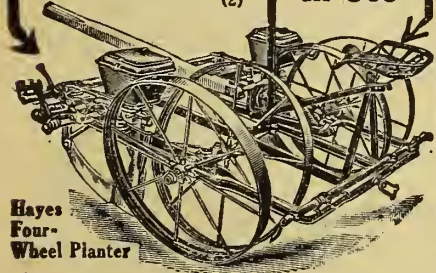
HAYES Four-Wheel PLANTER

checks straighter than any other planter made. Handles the easiest for man and team. The shortest coupled planter, making it the lightest draft, and can be turned in shortest space.

You can plant from 3 to 5 more acres a day with the Hayes, drop your corn more accurately, check it straighter, cover it better and get a more perfect stand and larger crop than with any other planter made.

Write for free Booklet "F." It contains planter facts you ought to know.

Hayes Pump & Planter Co. Galva, Ill.



Let Us Make You a PRICE—FREIGHT Prepaid

No wagon ever made can stand the service—give the life-long satisfaction—have the tremendous capacity and strength, and be as light in its own weight, and as light draft as the "BRECO ALL-STEEL HANDY WAGON."

BRECO ALL-STEEL WAGONS

So, no wagon-maker has ever dared to sell wagons before on such a liberal selling plan—at such a price—direct from factory—Freight Prepaid. Investigate at once—don't think of buying until you get our actual facts to your great saving and advantage—telling why we can afford to give you

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No wagon-maker has ever dared to offer WOODEN or any other wagons on such a "prove it" plan as this. Highest-grade steel—every part interchangeable. Perfect—expert workmanship guaranteed. Handsomest wagon, and stands the hardest tests under any usage—practically made to order for you, as you can select any sizes and size wheels to suit you. Send your name today for our "BRECO ALL-STEEL WAGON" Full-Line Catalogue—Sent FREE. Illustrated in colors.

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Heider Eveners

A Great Invention

Made for 2, 3, 4, 5 or 6 horses. The HEIDER 4-horse Plow Eveners works four horses abreast on gang, sulky or disc plow. one horse in furrow, three on land. Works free, no side draft, all horses pull equal. We make elevators and our Eveners ton plows. HEIDER 3-horse Wagon Eveners for wagon, manure spreader, grain drill or any other implement with pole. **CO TO YOUR DEALER**, if he can't supply you don't accept any other. Write us for catalog and we will tell you where to get them. We also make Wagon Doubletrees, Singletrees, Neck Yokes, etc. Insist on getting HEIDER'S if you want the best in EVENERS.

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ASK YOUR DEALER

A SPECIAL DAIRY TRAIN.

The Iowa State Dairy Association, in co-operation with the Burlington railroad will operate a special dairy train in southern Iowa from February 19th until March 9th. This train will be made up of the two Arms palace cars, one baggage car, and two lecture coaches. The baggage car will be used for miniature silos, testing apparatus, dairy literature, etc., while the palace cars will carry improved specimens of dairy animals which will be used in the cow demonstration work, to illustrate the essential points to be observed in selection and breeding of dairy cattle. The two coaches will be manned with some of the very best speakers on dairy subjects in the central West, and only practical topics will be discussed, such as breeding, feeding and caring for dairy animals, the erection and costs of silos, how to feed ensilage, how to compound rations for dairy cows, etc.

This special train will be in charge of Prof. Hugh G. Van Pelt, a recognized dairy expert—a man who knows the business from the practical as well as from the scientific side.

It will leave Danville, at 9:30 a. m., February 19th, and will stop at the following points during the day: New London, Mt. Pleasant, Lockridge, Fairfield, Batavia, Albia.

- February 21st the following points are scheduled for a lecture: Oskaloosa, Bussey, Russell, Chariton, Milo, Osceola.
- February 22d: Norwalk, St. Charles, New Virginia, Murray, Afton, Creston.
- February 23d: Orient, Fontanelle, Bridge-water, Massena, Cumberland, Greenfield.
- February 24th: Maryville, Pickering, Hopkins, Bedford, Conway, Lenox, Bedford.
- February 25th: Cromwell, Prescott, Stanton, Nodaway, Brooks, Corning, Villisca.
- February 26th: Essex, Hamburg, River-ton, Farragut, Yorktown, Clarinda.
- February 28th: Griswold, Elliott, Emerson, Malvern, Glenwood, Shenandoah.
- March 1st: Coin, Blanchard, Elmo, Burling-ton Junction, Clearmont, Braddyville, Shambaugh.
- March 2d: New Market, Gravity, Sharps-burg, Clearfield, Diagonal, Tingley, Grand River.
- March 3d: Van Wert, Decatur City, Cains-ville, Pleasanton, Leon, Mt. Ayr.
- March 4th: Lamoni, Kellerton, Redding, Grant City, Gentry, Albany.
- March 5th: Bethany, Ridgeway, Blythe-dale, Davis City, Garden Grove, Humeston.
- March 7th: Weldon, Le Roy, Cambria, Corydon, Promise City, Centerville.
- March 8th: Moulton, Bloomfield, Pulaski, Milton, Cantril, Mt. Sterling, Farmington, Donnellson.
- March 9th: West Point, Pilot Grove, Hillsboro, Stockport, Birmingham, Liberty-ville.

The Homestead believes that this is a most excellent method of arousing interest in matters relating to dairying and we hope that our subscribers who live in the vicinity of any of the towns mentioned will make it a point to attend these lectures and demonstrations. Literature will be distributed in the vicinity of every town giving the exact time of the lecture.

STATE FAIR CLASSIFICATIONS.

The winter meeting of the associa-tion of state fair managers made a number of changes in rules and class-ifications which will be of interest to exhibitors. The most important of these was the adoption of uniform classifications for horses, cattle and hogs by all the state fairs and a number of other shows, including in the lot the Interstate Live Stock Show at Sioux City. The classification adopted is that which has prevailed at the Iowa State Fair. In the dairy cat-tle division, however, an extra class was added of cow four years old or over. The classification for females as amended is a class for cow four years old or over, cow three years and under four, heifer two years and under three, heifer one year and under two and heifer under one year. In beef classes the only change was that providing that exhibitor's calf herd should include one bull and two heifers instead of one bull and four heifers as previously.

In the rules with reference to ex-hibits of cattle the following para-graphs were adopted:

All female cattle forty-two months of age must have produced a calf within the past eighteen months to be eligible to the show. Any bull over thirty-six months old entered in any of the breeding classes that has not had dropped to his service a live calf during the eight months preceding the opening time of exposition shall be deemed barren and as such shall be excluded from the

competition. Certificate from the exhibitor properly attested will be required by the general superintendent.

The swine classes are uniform with the exception that at the Iowa State Fair in compliance with a request presented by the Iowa Swine Breeders' Association the ohampionship classes are as follows: Senior champion boar, \$15; junior champion boar, \$15; grand champion boar, \$25. Champion-ships on females are the same and like amounts are awarded.

A paragraph has also been inserted in the rules fixing the date from which age of swine will be computed to be from March 1st and September 1st.

The swine classification at all other state fairs will remain the same as those of the Iowa State Fair of last year.

As a matter of convenience to ex-hibitors the rules also provide that "all fairs release live stock at four o'clock, Friday afternoon, providing that the stock be entered for exhibi-tion at the fair of the following week."

WHEN COOKING CORN PAID.

To the Editor of The Homestead:

In regard to cooking corn, I can say from actual test that it pays to cook corn for any kind of stock, especially hogs and poultry. In the winter of 1899 I cooked corn for seventy-two head of hogs. These hogs were weighed before I commenced cooking their corn, and then every ten days thereafter. They were just eating and gaining enough before put on cooked corn to pay for corn at forty cents per bushel. They were gaining eighty-four pounds on dry corn, eat-ing seven bushels a day, and on cooked corn they made a gain of two and one-half pounds per head each day for forty-five days, or 180 pounds a day on the bunch. They only ate six bushels of cooked corn and made an actual gain of \$176.85 in forty-five days. Corn was worth forty cents delivered and I got \$3.65 for the hogs. I wouldn't have got that but I en-gaged them, for they were only worth \$3.60 in Chicago at the time of deliver-ing the first of April. Those hogs weighed 208 per head when I com-menced to feed cooked corn, and for-ty-five days after they averaged 315. They weighed 22,680 pounds net, and brought me \$827.82. Now you may say it doesn't pay to cook corn, but it surely did on this bunch, for they were only making me \$2.64 a day on dry corn, and on cooked corn they made me \$6.57 a day, a gain of \$3.93, and I called that good wages for a couple of hours' work.

Now I want to tell you how I did it. I bought a 100-gallon electric feed cooker which cost \$11, and a sheller which cost \$7. I put it up in an old house where I had my corn. It has a good flue, so there was no danger of fire. I shelled all my corn and salted every batch. I used wood and cobs for fuel and put all the ashes from the stove in with the corn and cooked it. I would take the corn out when soft enough to mash with the fingers and put in bar-rels to cool. I covered it up so none of the steam or food elements could escape, and the hogs didn't have to have the second invitation to get around the trough. I made my troughs with a six-inch bottom and six-inch sides. They were better than the V-shaped trough, for it was eas-ier to clean out the mud if any got in them. I could take a spade and soon clean, ready for feeding, but the weather was so cold when this test was made that I wasn't bothered with mud very much. It doesn't take very much water to cook 100 gallons, and not much wood, for it must be covered tight so the steam can't get out, or your food elements will escape.

I now live in Kansas in the gas belt and am not bothered about fuel. I raise the Poland China hogs and cook the corn by gas. I have quit selling hogs for \$3.65 per hundred.

Now you can take this for what it is worth, but I would like to hear from some more of the readers. Here is one that knows it pays to cook corn for poultry and hogs. The only way to test anything is over the scales, and that is just what I did. I can say that if more of the farmers would put up good scales and weigh their stock they would soon have better

stock and more money, for an animal that didn't give good returns for the food eaten, would be disposed of and replaced with one that would, and the buyers wouldn't try to beat you, for they know they will get caught.

Charles E. Curry.
Montgomery county, Kansas.



In the United States, Their present value depends upon their past and present health. Their future value on future health. The value of your own hogs is determined the same way. Hog raisers are getting a good round price for their product. The corn they eat has good value. Both of these are substan-tial reasons why hog owners should use

LEE'S HOG REMEDY

The hog must depend upon the owner for attention. There is where the obli-gation begins. We are sounding no un-due alarm. We want the importance of hog health recognized. It's easier to keep hogs in perfect condition than to doctor them. Try the plan now. You have all to gain. The cost is small.

Lee's Hog Remedy is a medicine, not a food. It is to cure, not simply relieve. It is for your hogs, not alone your neighbors. Buy from your dealer. If he cannot supply, send to us. The cost is \$2 for 25-lb. pail; \$6 for 100-lb. box. Consider the price of hog-raised corn. You cannot afford to do without it.

GEO. H. LEE CO., 1173 HARNEY ST., OMAHA, NEB.

OUR OTHER STOCK REMEDIES—Lee's Stock Tonic, Lee's Best Conditioner, Flvo-Curo, Lee's Dip. Buy them of your dealer, or order direct. Descriptive Catalog FREE.



70c up to \$4.25 Buys the Most Useful Article Any Farmer Can Own

It is the great Burr Automatic Safety Tackle Block—the one rope tackle block that does a chain block's work. One man can do the work of four in chang-ing wagon boxes, lifting injured ani-mals, stretching wire fences, and many other farm jobs that need strength. It has no teeth, wedges and eccentrics to bite, tear and wear rope. It looks unflinchingly and holds firmly and safely on greasy and wet rope, and in any position—even up side down. The simplest, strongest, handiest farm help ever invented. You couldn't af-ford to be without it if it cost twice the money. Capacity, 600 up to 5,000 lbs. Write today for catalog and complete instructions.



BURR MFG. CO. 143 Viaduct, Cleveland, O.

WITTE ENGINES

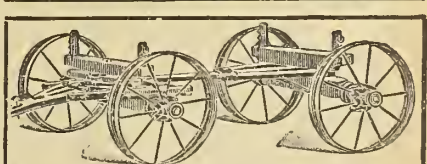
USE GAS, GASOLINE OR KEROSENE

Are known by a superior standard of construction. 25 years of ser-vice has demonstrated their worth. Does work at lowest cost and is always ready to saw, grind, pump, shell or do any farm or shop work.

FIVE YEAR BOND GUARANTEE

We build all sizes in stationary or portable type. Hopper jacket or water tank cool-ing. Inducements to introduce in new lo-calities. Write stat-ing size wanted.

WITTE IRON WORKS CO. 543 West Fifth St. Kansas City, Mo.



Say, Now, Be Fair About It—Haven't we all done pretty well the past year? Then let's enjoy some of our success and Get a Low Down Handy Wagon or a set of Low Steel Wheels and make work easier for next year. That's the way to use prosperity. Get our Catalogue.

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Everybody Buying at the New Cut Prices

Your Coupon Is in the Lower Left Hand Corner of This Page. Fill It Out NOW!

We believe the Economy Chief is the best and most satisfactory cream separator on the market today, regardless of price. We believe it to be the best in design, the closest skimming, the easiest running, the quickest cleaning; in short, the greatest separator value that money can buy. We have absolute confidence in the Economy Chief and we want every owner of cows to share this confidence with us. We want everyone interested in buying a cream separator to have an opportunity to find out for himself which is the best machine, which is **THE SEPARATOR TO BUY.**

Here Is the Challenge Offer That Is Bringing in the Orders by Every Mail

Deposit in your local bank the price of the Economy Chief Cream Separator you want to try, or
Send us a letter of reference from your banker stating that you are a reliable person; then

We will ship to you at once, freight prepaid, the separator you order, with the understanding that you are to set it up and try it on your farm for sixty days. Give it the hardest kind of a test; if possible try it alongside some other well known standard make, such as the Empire, United States or De Laval. Compare our machine in actual operation with any other. Note the amount of cream you get from each. Compare ease of running, time consumed in cleaning, and make any other comparisons you can think of. Never mind about the price; what you want from a cream separator is CREAM. If any other machine selling even as high as \$85.00 or \$90.00 will do better work, will skim closer, will give better satisfaction than our Economy Chief at \$42.50, our advice to you is, buy the other machine and send ours back.

When you have finished your sixty-day test, if you are perfectly satisfied that you have the best separator on the market, write us saying that you want to keep the machine, and we will send you a bill for your separator and the freight charges we paid on it.

If at the end of sixty days you are not satisfied that the Economy Chief is the world's best separator, you don't need to even tell us the reason for your dissatisfaction unless you wish to; just drop us a line saying you don't want the machine. We will then send you a return address card to tack on the box and we will not only return all money sent us, but also pay you for your time and trouble in setting up the machine, repacking it and hauling back to the station. We don't want you to lose one penny in trying out the Economy Chief for sixty days.

If you want to send cash with your order, as most of our customers do, you won't lose any of the benefit of the above CHALLENGE OFFER, for if at the end of sixty days you decide you don't want the machine, if you think after a sixty days' trial you can get along just as well without a separator, or if you have seen a separator in operation giving better results than the Economy Chief, just send it back at our expense, tell us how much we owe you for freight charges, hauling from and to the station, setting up and repacking, and we will promptly send you every cent of the purchase price, plus your bill.

This Is Our Challenge Offer and Our Whole Cream Separator Proposition!

We think our Economy Chief Separator is the best machine in the world. We want to sell you an Economy Chief if you think the same as we do, not otherwise, and we make this challenge offer to give you a chance to find out all about the Economy Chief **at our expense** and to prove our confidence in our own machine.

IF THE MAKER OF ANY OTHER CREAM SEPARATOR IN THE WORLD BELIEVES IN HIS MACHINE AS WE BELIEVE IN OURS, LET HIM MAKE YOU THE SAME PROPOSITION WE DO.

That's all—Now fill out the Coupon!

FILL OUT THIS SPECIAL ORDER BLANK

☐ **CASH WITH ORDER.**
If you are enclosing the full price, simply write the amount in this square.

☐ **CASH IN BANK.**
You can deposit the purchase price of the separator with your local banker, to be held by him for a month while you are trying it. If you follow this plan make an X mark in this square and enclose your certificate of deposit signed by your banker.

☐ **BANK REFERENCE.**
If you prefer not to send us the money, or to hold it in the bank subject to our order, make an X mark in this square and enclose a letter of reference signed by your banker, telling us that you are a responsible property owner.

☐ **FREE DAIRY GUIDE.**
Nearly everybody has a copy of our big General Catalog or our Cream Separator Catalog, but if you have not and want more information before ordering, make an X mark in this space.

Name _____

Postoffice _____ State _____

Shipping Point _____ State _____

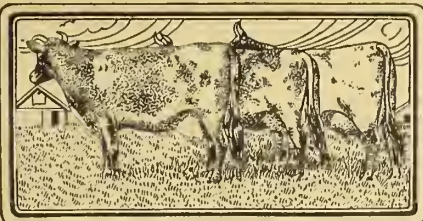
R. F. D. _____ P. O. _____ Street _____
No. _____ Box No. _____ and No. _____

Send me by freight on trial _____ Economy Chief Cream Separator

Size _____ Price _____
The Homestead. (Please write plainly and carefully.)

SEARS, ROEBUCK AND CO., CHICAGO, ILL.

DAIRY



ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

VENTILATION OF BARN.

To the Editor of The Homestead:

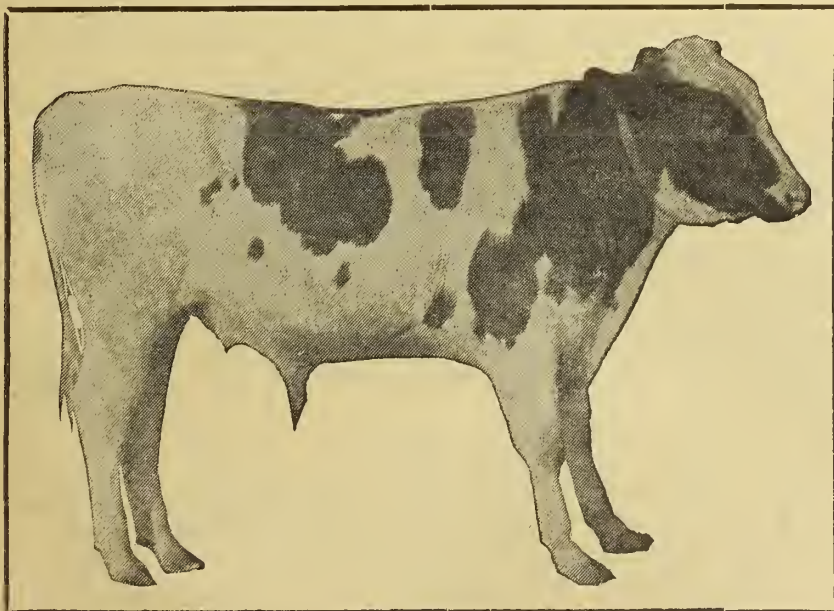
The object of ventilation is to supply pure air, to dilute and remove from the stable the products of respiration and gaseous decomposition of the fluid and solid excreta. The supply of air should come from a pure source and not only should it be sufficient to supply the necessary oxygen required by the animal but also to remove the impurities.

Large animals during a state of repose, take into their lungs approximately 100 cubic feet of air per hour; during exercise and disease this amount is greatly increased. The amount of air breathed by the animal is no guide to the amount of air required, for the reason that if only this amount were supplied the proportion of impurities present would be enormous. To properly dilute the air for breathing, about 150 times the actual amount of air that passes through the animal's lungs must be introduced.

If on entering a building no sensible difference in smell can be determined, from the outside air, that is, if the air inside the building is as fresh as the air outside, the amount of organic impurities is at its lowest point. Such air gives on analysis .6 per cent per thousand of carbon dioxide gas. This .6 part per thousand is made up as follows: Fourteenth part per thousand of carbon dioxide normally present in the air and .2 part per thousand due to respiratory impurities. Therefore, the maximum amount of respiratory impurities which can be present without impair-

large cubic space is desirable because the larger the air space the less frequently must the air be changed and in this way the chances for producing a draft are lessened. A large air space must supply the same amount of fresh air per hour as a smaller one, namely 15,000 cubic feet per occupant. Thus the value of a large cubic space soon vanishes unless regular ventilation is established. The chief objection held against a small cubic space is that the air must be changed so frequently if the proper amount of air is admitted, that the stable will be subject to draft and if the natural ventilation becomes suspended in any way the air content becomes more rapidly impure than in a large one. The cubic space for animals is readily arrived at and it depends on how many times per hour the air can be changed without producing a draft or causing the stable to become too cold. Theoretically, or when expense is no object, the change should be three times per hour. However, this would necessitate a space of 5,000 cubic feet per occupant, and in most cases this is impracticable. A cubic space of 1,600 to 2,500 cubic feet is more practicable and demands a change of from six to nine times per hour; 1,600 is the space allowed by the army, large companies and intelligent horse proprietors.

A hot stable produces a fine, glossy coat, economizes the food and the animals put on fat, but it also renders them more susceptible to disease. Cold stables produce a heavy coat, not much tendency to fatten, and the animals need more food owing to the toll on the heat-producing functions



THE TYPE OF HOLSTEIN OFFERED FOR SALE BY MESSRS. WILLIAM EVERSON & SONS, OF LAKE MILLS, WIS. SEE ADVERTISEMENT ON PAGE 57.

ing the freshness of the air is .2 part per thousand. If the air, upon entering the building, smells rather close, the amount of respiratory impurities is about four parts per thousand. If the air is very close and disagreeable and offensive, the amount is about nine parts per thousand of respiratory products. It has been assumed that when there is no perceptible difference in smell, between the air within and the air without, the air is fit to breathe. It is on this basis that the maximum amount of permissible organic impurities has been fixed and adopted.

A very common error is made in supposing that a larger air space will supply ventilation. While a large air space is necessary and desirable, the air contained within this space will become as foul as will a small space if given sufficient time. Therefore, a

of the body. They are also healthy and the chances of chill from exposure are slight.

Augustus Forrest.

CHURNING, WASHING AND WORKING BUTTER.

When the cream has been held at churning temperature for a period of two to three hours, it is ready to be churned. This temperature should vary with the season (summer 52-54° F.; winter 58-62° F.), lactation periods of cows, kind of feed the cows are consuming, and amount of butter churned per gallon of cream. Do not fill the churn over one-third full, because if more cream than this is put in the churn it will lengthen the churning period. The usual time required for churning is about thirty minutes. The speed of the churn



NOT "MAIL ORDER" CREAM SEPARATORS

The World's Standard DE LAVAL Cream Separators are not sold in the "mail order" way, and therefore not advertised with the big newspaper space and big "word claims" used to sell second and third grade separators in this manner.

Part of the money spent in the sale of inferior separators in the "mail order" way is put into commissions to local agents in the case of DE LAVAL machines, and the buyer of the separator for use gets the benefit of it instead of the newspaper, through the setting up of the machine and the instruction of the buyer in its proper use by the agent, as well as in its occasional looking over and the prompt supplying of any needed parts for it in the years to come.

That's the difference in the method of sale between the DE LAVAL and most other makes of cream separators, which means almost as much to the buyer-for-use as the superior efficiency and durability of DE LAVAL machines.

The difference of merit and method of sale save the cost of the DE LAVAL over other separators in a comparatively short time and make a DE LAVAL machine last an average twenty years, while other separators last on an average from six months to five years, according to their grade.

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Name.....
Town.....State.....

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By the Farmers
and Dairymen of
America

NEVER BEFORE in the History of High-Grade Separators could you buy the latest standard, highest-grade machine like the Galloway at such a low direct price as I can make to you now—because I am making so many of them. Only \$33.50 and upward, freight prepaid to you on 90 Days' Approval Test and 20 years' guarantee.

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with a wide base to catch the waste.

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Increases your yield of cream and butter
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Any kind of a test you want.

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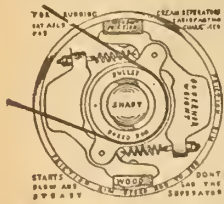
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should be uniform and fast enough to
give the greatest concussion.

Churning should cease when the
granules are fairly uniform in size,
and have the appearance of cracked
corn. There is greater danger in
overchurning than underchurning.
Draw the buttermilk through a
strainer.

When the buttermilk has thoroughly
drained, sprinkle cold water over the
butter, without revolving the churn,
until the water comes out quite clear.
Close this outlet and add fully as
much water as there was cream in the
churn; twice as much will do no
harm. Close the cover and revolve
the churn about twenty times and at
the same speed as for churning. Al-
low the water to drain out thorough-
ly. The temperature of the wash
water and the buttermilk should be
about the same. It may be necessary
to have the wash water warmer than
the buttermilk in winter and colder
in summer. The butter when ready
to be worked must not be too soft
or too firm.

When the last wash water has
drained off, sprinkle the salt solution
over the surface of the granular but-
ter. The amount to use should be
regulated by the demand of the con-
sumers. As a standard the following
method will produce desirable results:
To every ten pounds of butter in the
churn, mix one pound of dairy salt,
and two pounds of water. The salt
and the water should be mixed at
least thirty minutes before it is
sprinkled on the butter. Close the
cover tightly and revolve the churn
slowly about ten times. The butter
should then be allowed to remain in
the churn with the salt solution about
fifteen minutes before it is worked.
If by this method of salting the de-
sired results are not obtained, vary
the proportion of salt and water. A
certain amount of water must be pre-
sent in the churn with the salt, as
otherwise it will not dissolve, incur-
ring a greater danger of streaked or
uneven coloring.—(Illinois Bulletin.)

A RECORD MISSOURI COW.

"Missouri Chief Josephine," a Hol-
stein cow, owned by the Missouri
Agricultural College, gave thirteen
gallons, one pint of milk, February 1st.
This lacks only 1.3 pounds of be-
ing the equal of the world's record in
the production of milk in one day.

The record cow in the United
States, which is also the record for
the world, is a native of Massachu-
setts. That cow gave 106 pounds of
milk in one day. This is only about
a pint more than Josephine gave.

In a week's test Josephine has given
an average of more than forty-five
quarts of milk a day. Several months
ago she established a record for this
state of forty-seven quarts of milk a
day.

The average consumption of milk is
two-thirds of a pint a person. Joseph-
ine could have furnished a tenement
of 157 persons with the milk that they
got by their daily allowance in a great
city. If churned into butter, Joseph-
ine would have produced about three
and one-half pounds, which, at present
prices, would bring \$1.40. At the cur-
rent price of milk in Columbia, seven
and one-half cents a quart, Josephine's
milk on her record day would have
brought \$3.90.

To get this amount of milk, Joseph-
ine was milked three times a day. It
took forty-five cents' worth of feed
a day to keep Josephine when her
record was made. She ate alfalfa,
corn, ensilage, bran, oil meal and oats.

INFLUENCES ON RURAL CHILD- REN.

I wish to say a few words about the
influences that are coming into the
lives of children in the rural districts.
We wish our children to know how
to work, yes, even to know how to
sweat, but we want the sweat mixed
with a healthy interest in the work
and with pleasant thoughts. What is
the best way to bring this about? The
child must see that his work is to ac-
complish an end, and that there is
some time to be an end to his work.

Here are two boys, each set to hoe-
ing weeds in the corn. One is the son
of a man whose sole object in life is to
accumulate the dollars and cents. The
boy hoes, and as he hoes he thinks,
and his train of thought runs in this

wise: "Oh, dear, what weeds! I can
hoe all day and still there will be
weeds. And when it is too dark to
hoe, I can do chores, and after chores,
eat supper, and after supper, go to
bed; and tomorrow it is the same
thing over again." Can we not sym-
pathize with this boy, longing as he
does for some diversion? He has not
even pleasant thoughts to fall back on.

But there is the other boy. He too,
is thinking as he works: "Say, but this
corn is growing! The weeds are grow-
ing, too, and if I don't hurry, they
will crowd the corn. This will be a
dandy crop, and I shouldn't wonder but
I may be able to pick out some fine
ears for the fair next fall. It will be
chore time pretty soon, and then I
must help father with the chores. I
never saw calves grow like those two
of mine, and father's hogs will soon
be ready for the market. After sup-
per I'm going to practice that duet
with sister, and I want to finish that
book about King Arthur's Knights. I
know what I'll do; I'll play that I am
Sir Galahad, and that these weeds are
King Arthur's enemies—see how they
go down before my sharp sword!"
And so the boy's happy thoughts run
on, and before he is aware that it is
quitting time, he hears his father call-
ing him.

We want our children to have pure
and pleasant thoughts to fill their
minds so there will be no room for
anything low or vicious. Our school
and home libraries are of the greatest
help in this direction. Children who
live among book heroes are uncon-
sciously influenced by high ideals in
the forming of their character.—(Martha
C. Wichern before The Farmer's Club
at Baraboo, Wisconsin.)

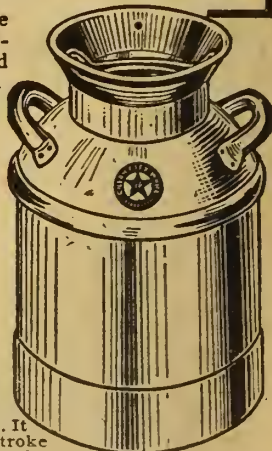
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kept. Industrious, good worker, strictly reliable.
Give age, wages wanted; all particulars first letter.
Best references required. Stowe's Ranch, Granger, Ia.

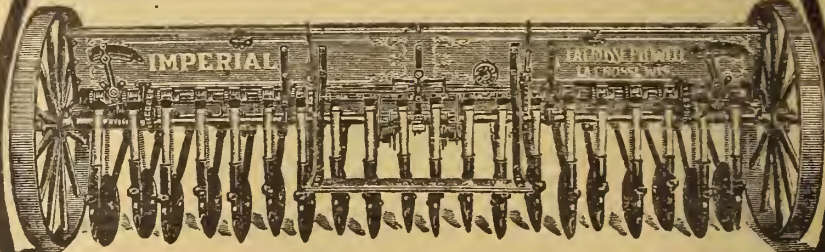
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Cow comfort and cow sanitation result in more
cow profits, and that alone should induce any
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Louden Sanitary Steel Stalls and Stanch-
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Latch easily opened or closed with gloved hand,
but can't be opened by animal. Send today
for free catalogue of sanitary, money-saving
barn equipment.
LOUDEN MACHINERY CO., 609 Broadway, Fairfield, Ia.

Breeding the Dairy Cow

By W. W. Marsh, Waterloo, Iowa

IF you will take the trouble to analyze the pedigrees of colts that are entered in the Derby which is to be run next June in England, you will find they trace not once, but many times in their ancestry to horses that have won the derby in other years. If you will take the trouble to look into the pedigrees of the colts that are entered in the Kentucky Futurity you will find that in nearly every case they trace not only once but several times to horses that have held world's records. So true is it that the horses that win races descend from horses that have won races, that it has passed into the aphorism "breed to the winners." We find a similar expression as the basis for all improvement in the other aphorism that "like begets like" or as it was originally enjoined in the expressions, "breed from the best."

Strange as it may appear, one of the great stumbling blocks in the development of a breed is the lack of a clear and comprehensive idea of the attributes and characteristics which are required and this is especially true in the development of dairy cattle. We have seen in nearly every breed an effort made to arrive at two distinct places; form that would win in the show ring and persistence in the production which would be profitable in the pail. Just as soon as our ideas are clear cut and definite we will begin to make real progress. I believe that the improvement of the dairy breeds of cattle in America has begun in real earnest. I believe that the fact that everything will be sacrificed in our work to persistency in production, will lead to the development of a breed of dairy cattle in the Mississippi and Missouri valleys the like of which has never been seen in this world.

The basis with me for improvement in my herd is well defined in my own mind. The ideal pedigree for me would be a sire the dam of which made more butter fat than any other cow, with a grandam that made more butter fat than any other cow except her daughter and with a great-grandam that made more butter fat than any other cows except her daughter and her granddaughter. In other words, accumulated evidence of persistency in production, as shown in the pedigree with the additional evidence of power to transmit is the object sought.

I assume that with great producing ability will come the modified form best adapted to do the work. In other words, that nature will design architecturally the form calculated to eliminate waste and that the power to assimilate the food necessary for large production will come with that ability.

I think that there is accumulated evidence enough at this time to make it necessary to sound a warning against a standard to breed from which is of an indefinite nature. In other words, I believe that at this time nothing is more dangerous to the breeder, who contemplates a herd with large producing capacity, than the indefinite expression, "dairy form." Don't misunderstand me, I am not talking against the cow of dairy form and in favor of the cow of beef conformation. In two of the dairy breeds at least, the substitution of show ring "form" for production has worked great harm. Why should we talk of dairy form in this day when we can talk of records which indicate producing capacity? Why should we talk of dairy form at this time when one judge in Iowa and another judge in Minnesota and another judge in Wisconsin and another judge in Illinois reverse each other with system and regularity? Why should we substitute a will-o-the-wisp of that character for a definite, clean-cut, positive knowledge of producing power which is contained in the advanced registration records?

My object is not necessarily an at-

tack on the show ring, but when winning in the show ring is made the object of your breeding to the sacrifice of the necessary producing ability, then it should be attacked by every man who has the welfare of the breed that he stands for at heart. We all know that there are certain men who have been very successful in the show ring without a corresponding success in breeding animals that have made creditable records, and my thought at this time is not an attack on the show ring in and of itself, except where the show ring deters a man from the practical object toward which we are now striving. The show ring has its place in our work for the advancement of dairy breeds. It comes under the general publicity plan of campaigning, however. So long as it is intended and does impress the general public, it answers a useful purpose. When, however, the show-ring standard becomes the object of the breeder instead of the true evidence of a cow's greatness which is her production, as told in the pail and the test, then it does positive harm.—(Part of an address before Wisconsin Board of Agriculture.)

CARING FOR BARNYARD MANURE.

To the Editor of The Homestead:

We have now reached a point in our farming operations where we know that saving barnyard manure and putting it back on our land is not "carrying coals to Newcastle," but following a sane and important policy of preserving the fertility of our soils. The best way to care for this form of farm fertility is one that concerns us all. We must meet the question according to our individual conditions.

The simplest way of doing this is to keep it under cover, so that there may be as little waste as possible from the action of heat and cold, storm and sunshine. To throw manure out where it will be exposed to the action of the elements is to invite serious losses.

Sometimes it is said, "Well, I cannot afford to pay out money at present prices to build a place just to shelter manure. Costs too much!" To this the reply may be made, "You cannot afford not to do it. If you expect to keep the fertility of your farm intact, if you hope to continue to grow good crops, if you want to pass your farm on to your children or to some other friend as good as it was when you took possession of it, you can do it in no other way so effectively and so economically as by saving the barnyard manure carefully."

Still another way of preserving barnyard manure is to put it into a pit out in the field where it may be worked over by the hogs and made more valuable. Such a place should be covered also, but need not necessarily be shut in at the sides. To this pit everything which will make manure may be drawn—leaves, horse manure, tops of vegetables, worn-out bedding from the stables, sheep manure, hen manure—all sorts of vegetable matter, in fact, that is not needed anywhere else. Hogs will take such a conglomeration and make it a source of revenue by the pork they lay on from such bits as they may gather out of it, and these are by no means of a negligible quantity. Still further, the constant stamping under the feet of the hogs will hold the heat in and promote thorough decay. Manure cured this way will go out on the farm in far better condition than if it be drawn directly to the field as made.

If manure be applied to the land as made, care should be taken that it be scattered on ground that is not frozen hard and hilly enough to permit the liquid set free by the rains of spring to carry it away and waste it. Incalculable losses are incurred in this way, losses we can ill afford

and which we must guard against with all our powers of mind and body. For there is no better source

of farm fertility than barnyard manure kept as it should be kept.
Edgar L. Vincent.



Big Strong Calves

mean healthy, profitable herds.

You can't afford to let your calves be stunted with skim milk and slop diet. You can't afford to feed them your profits in the form of whole milk. And it isn't necessary. You can raise four calves on Sugarota Calf Meal at the cost of raising one on whole milk, and get better results. Sugarota Calf Meal is balanced and mixed to meet the actual needs of the growing calf. It has been tested out in actual use on our experimental farm and its value proven; it is always uniform, making a complete dependable ration, preventing constipation and insuring health, vigor and vitality. Sugarota Calf Meal positively contains no dope to stimulate or to create artificial conditions.

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are specialized, each for its particular purpose. In addition to Sugarota Calf Meal, our brands include Sugarota Dairy Feed, Sugarota Cattle Feed, Sugarota Horse Feed, Sugarota Swine Feed, Sugarota Sheep Feed, Sugarota Scratch Feed and Sugarota Chick Feed. Every separate brand is balanced for its special purpose, tested out on the animals for which it is made, and guaranteed to be better than any other feed, home-mixed or manufactured. Buy Sugarota Feeds from your dealer. If he doesn't handle them, write us and we will see that you get the feed, for trial on the money-back guarantee basis.

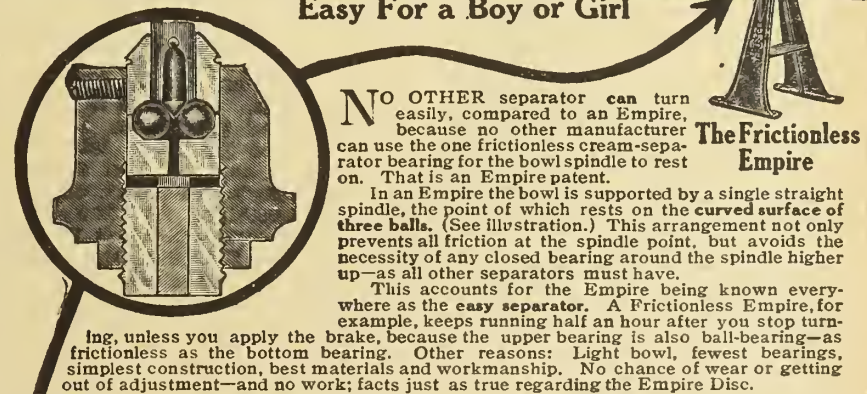
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CALF MEAL
PROTEIN 25%
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NORTH-WEST MILLS CO.
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The Secret of the Empire's Fame for Ease of Turning

Frictionless Bowl Spindle Makes Skimming Easy For a Boy or Girl



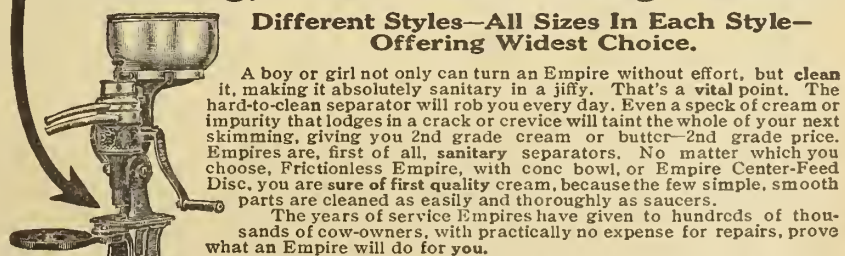
NO OTHER separator can turn easily, compared to an Empire, because no other manufacturer can use the one frictionless cream-separator bearing for the bowl spindle to rest on. That is an Empire patent.

In an Empire the bowl is supported by a single straight spindle, the point of which rests on the curved surface of three balls. (See illustration.) This arrangement not only prevents all friction at the spindle point, but avoids the necessity of any closed bearing around the spindle higher up—as all other separators must have.

This accounts for the Empire being known everywhere as the **easy separator**. A Frictionless Empire, for example, keeps running half an hour after you stop turning, unless you apply the brake, because the upper bearing is also ball-bearing—as frictionless as the bottom bearing. Other reasons: Light bowl, fewest bearings, simplest construction, best materials and workmanship. No chance of wear or getting out of adjustment—and no work; facts just as true regarding the Empire Disc.

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A boy or girl not only can turn an Empire without effort, but clean it, making it absolutely sanitary in a jiffy. That's a vital point. The hard-to-clean separator will rob you every day. Even a speck of cream or impurity that lodges in a crack or crevice will taint the whole of your next skimming, giving you 2nd grade cream or butter—2nd grade price. Empires are, first of all, sanitary separators. No matter which you choose, Frictionless Empire, with cone bowl, or Empire Center-Feed Disc, you are sure of first quality cream, because the few simple, smooth parts are cleaned as easily and thoroughly as saucers.

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The Empire Book for 1910, is full of money-making facts for every owner of cows—the fairest, most impartial separator book ever published. Shows different styles of machines—take your choice—not one man's hobby. One is sure to suit you in style, size and price. Each backed by the Empire guaranty, as good as a Government Bond. Address

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Factory, Bloomfield, N. J.



MAY'S "FIRST OF ALL" TOMATOES

**Have You Tried Them?
For Market or Home Use
Free From Hard Core**

Matures a week to 10 days ahead of any other known variety; fruits of good size, smooth, solid, bright red color and finest flavor. Although a large number of so-called early sorts have been introduced of late years, on test—side-by-side—not one has equalled FIRST OF ALL for earliness, hardness, size and uniform shape. Price, Large Packet, 10c. Ounce, Postpaid, 40c. **FREE BOOK** "Northern Grown Seeds, Plants, Bulbs, Fruits and Trees." Contains all the good things for the Garden and Farm worth growing at the right prices. Write today. (6)
L. L. MAY & CO., St. Paul, Minn.

16¢ SEED BARGAIN

Here is a joy collection, beating the world, composed of **10,000 Kernels**. Richest, juiciest, tenderest seeds. 1000 Each, Lettuce, Turnip, Rutabaga. 1000 Each, Onion, Celery, Carrot. 1000 Rarest Radishes, alone worth 16c. 1000 Each, Parsley, Melon, Tomato. 1200 Brilliant Flower Seeds, 60 Sorts. In all 10,000 kernels, including big catalog, all postpaid, only 16c in stamps. Send us a name for our new breed of corn and if it is accepted, you will win **\$500 in gold**.

The new corn is not for sale, but 46 brings sample packet. You need not get sample to enter contest, however. Just give us the best name. If another seeds in same (acceptable) name as you do, prize will be equally divided. Mammota catalog loaded with Seed News free. Address **JOHN A. SALZER SEED CO., 124 So. 8th St., La Crosse, Wis.**

FREE SEED OFFER

If you will write for our big seed catalog at once and send us an order amounting to One Dollar or over within thirty days from the date you receive our catalog, we will send you absolutely free with your order, a large collection of new varieties of seeds, sufficient to grow \$50.00 worth of vegetables and flowers. Hunkel's Seeds are known everywhere—sow them in 1910 and grow record crops. Our 1910 catalog of Farm and Garden Seeds is bigger and better than ever. Write for catalog today and take advantage of our big \$50.00 free offer. **G. H. HUNKEL CO., Seedsmen, 302 Chestnut St., Milwaukee, Wis.**

GOOD SEEDS

BIG SEED BOOK FREE

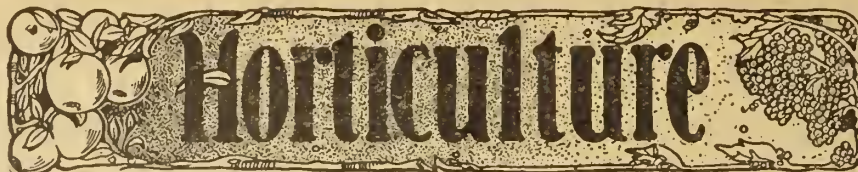
BEST NEW CROP GROWN SEEDS IN THE WORLD AT FARMER PRICES. In addition we give a whole lot of extra seeds with every order. Our BIG ILLUSTRATED CATALOGUE OF FARM AND GARDEN SEEDS IS NOW READY. It is FREE to you. A postal card will bring it to your door. Write for it today; also send the address of your neighbors who buy seeds. Address, **RATEKIN'S SEED HOUSE, SHENANDOAH, IOWA**

SEEDS FREE 9 LARGE PACKETS

BIGGEST SEED OFFER EVER MADE Send 16c for packet of our wonderful Earlbell Tomato and receive four 16c PACKETS FREE of our latest improved varieties: 1 each Cabbage, Cucumber, Melon and Pepper. Also 25c cash certificate for 5 free packets, your selection, or apply 25c cash order. Send 16c today and receive all above. Our big 100-page catalog free. Address **A. A. Borry Seed Co., Box 303, Clarinda, Ia.**

CLOVER and ALFALFA

Seed. Guaranteed pure—absolutely no weed seeds. Sold subject to State and National test. Write for free samples and special prices. **HENRY FIELD SEED CO., BOX 25, SHENANDOAH, IA.**



THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

KILLING POISON IVY.

A subscriber asks what he can do to kill the poison ivy in his wood lot. It is a general rule of vegetable life, that if you will never let a plant form leaves above ground the roots will die. This indicates the direction of effort. But there are some seasons when it is more efficacious to do this work than others. The best single time to cut obnoxious growths is in August for the plant has made its supreme effort for the season, and the root is exhausted. We have seen willows, hazel brush and thistles destroyed by one August cutting. Still this should be followed up, and if a weak growth shows later in the fall, cut it off. Your success will depend somewhat upon the weather, a dry fall helping. Follow up your work the second year, and you will conquer.

POTATO GROWER'S EQUIPMENT.

A subscriber sends the following communication:

I am about to engage in potato growing on a large scale. That is, I mean to plant from twenty to thirty acres yearly. What can you tell me about labor-saving machinery for the potato man? I know there are planters and diggers, but are they a success?

We think our subscriber will find that in potato culture, as in every other branch of agriculture, there is machinery which it will be wise to buy. In other words, you cannot compete with the experienced and successful potato grower and depend upon hand labor. Farm machines have been greatly improved during recent years and, if you can afford to grow potatoes upon the scale named, it will pay to have implements.

In sections where men specialize in potatoes, the equipment is about as follows: A manure spreader, a seed cutter, a planter, a two-horse sprayer, a digger and sorter and, of course, the best cultivators for the purpose. In addition to these you will probably want a storage cellar with a capacity of 3,000 bushels, or more. The planter and digger are the more important machines, and the best are none too good. It will not pay in the long run to buy the low-priced articles. Get something that has stood the test of actual use by practical men. When the seed is properly prepared, the horse planter will do the work of a half dozen men and do it better than men could do it. The same is true of the digger and the sorter. Life on the farm is too busy, too laborious, to do by hand anything that we may do by machinery. The sprayer is a necessary machine, for the fight against the Colorado beetle is an endless one. With the outfit named, the labor of potato growing is reduced to the minimum, and your chance for profit is twice that of the old hand work system.

DEEP SNOWS AND ORCHARDS.

When snows cover the ground for long periods, there is danger to the fruit trees and shrubs. The supply of food for the cottontail is covered, and he is driven to the trees. Many small trees will be injured the present winter and owners must be vigilant to avoid damage. The shotgun and the trap will do something to thin out the rodents, but they cannot be depended upon for perfect protection. Feed may be supplied by throwing down apple trimmings. Poison may be used, strychnin in sweet apples. Also there are fifty applications for the bark which cause the enemy to avoid the trees which have been treated. Grease, blood, fetta—each has its advocates. If veneer protectors are put on now press them down well into the snow and see that they are long enough so that, if drifts form about the trees, the rabbit will not get free passage into the tops. Large trees are practically safe from this enemy, because he cannot stretch his mouth

to fit them, but the small tree makes his opportunity.

Every man who has trees where there is danger of rabbit gnawing should be on guard right now and ward off the certain attacks. But if trees are neglected, or if injury is done after our best possible efforts, trees are not necessarily lost. A young tree will stand a good deal of gnawing and still come out all right in the end. But just as soon as the thaw comes, and you can get at the fresh earth, then is the time to help them recover from the damage. Go about with a spade and mound up dirt about each injured tree, covering all the wounds. Pack the soil well so that it will not settle away and leave the scars exposed to sun and wind. If this is well done and the earth left in contact with the bark for one summer, the wounds will be healed, even if the injury extends all around the tree. And it is cheaper to save the tree you have than to grow a new one.

CARE OF A YOUNG ORCHARD.

A reader in Missouri who has a one-year-old apple orchard asks if he has given the right treatment. Having a heavy soil he mixed sand and gravel with it before planting the trees. Then he put on sawdust for a mulching, and in the fall tied on corn stalks for rabbit protection. We think you are on the way to success with your orchard because you seem willing to labor, and give attention to details. The sand and gravel, if properly mixed with the soil, must be beneficial in making it porous, and the sawdust ought to be a help when a dry time comes. But we should hesitate to use it heavily unless it is well rotted. It is inferior as a mulch to straw or hay. We approve of the use of corn stalks for a shield, it is one of the home devices which are just as ef-

SEED CORN

GUARANTEED BY \$10,000 Bond



Good Seed Corn will be scarce most everywhere this year. We're fortunate in having fine crops—grown by our experts, all sorted and tested. Ears large, solid and perfect shape; grain deep, cob small; picture shows how closely kernels wedge in. We have several varieties of the finest seed corn grown.

Write for FREE SAMPLES and \$10,000 Bond Proposition

It's the greatest seed corn offer ever made and absolutely protects you against poor quality. Fully explained in our Special Seed Corn Circular and large illustrated catalog of farm and garden seeds which will be sent free on request. Address

IOWA SEED COMPANY, Dept. D1, Des Moines, Ia.

The FARMER'S GARDEN

A Seed Drill and Wheel Hoe is indispensable—not only in a village garden but on largest farms. Farmers should grow all manner of vegetables and "live on the fat of the land." Should provide succulent roots for cattle, swine, poultry, and save high priced feed stuff. Great labor-saving tools of special value for the home as well as the market garden. Send for free book.

SAVE HIRED HELP

Only One of Many Iron Age Tools

The most complete tool made



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Grow Prize Winning Fruit!

You can't be too careful in selecting your plants and trees. Upon your selection depends the quality and yield of your orchards and heds.

Our 55 years experience has taught us how to produce prize winning fruit from hardy Northern grown trees, whose tremendous yield has astonished people everywhere.

We sell only to the planter direct and save him the middleman's profit. You can now secure plants and trees direct from the nursery at prices less than your dealer buys them for.

Here's our get acquainted offer! One 2-year-old Concord grape, postpaid for 10c, or 1 dozen Senator Dunlap strawberry plants, the leading market variety, postpaid for 10c.

Write us anyway—we'll send you our booklet and price list—it is full of some good tips to fruit growers. These tips will help you show your neighbors some results that will make them jealous. Write today.

KELLOGG'S NURSERY, Box, 225 JANESVILLE, WIS.

BIG MONEY IN OATS

STIFF STRAW WHITE BERRY BIG YIELDER

Look at This Cut from a Photograph Taken of Two Stalks from Galloway Brothers' Field; Over 200 Kernels to the Stalk.

GENUINE REGENERATED SWEDISH SELECT

Not Every-day Swedish Select—Remember, there's a Difference.

THE GREATEST OAT ON EARTH

Why are oats higher today than they were in former years? Simply because the farmers have been sowing the same old oats over and over again—oats that are inbred and run out, and yet they wonder why they do not get a better crop.

Try some of our new seed. There is big money in raising even 50 and 60 bu. of oats to the acre. At the present price of land you cannot afford to sow inferior, inbred seed any more than you can afford to breed your herd to an inbred bull. It is as easy to put in and harvest a big crop as a small one.

Remember, Northern-grown seed is the kind of seed for this country. All the oats we have to offer are guaranteed to be clean, free from foot seed; and, according to Canadian Government Grain Inspector, they grade No. 1 White—almost an unknown quantity in the United States.

Here is what Professor M. L. Bowman, former professor of Farm Crops, Iowa Agricultural College, says: "I visited Galloway Brothers' big farm in Canada, and was much impressed with the way they farm. I saw these seed oats they are offering. They are fine, pure, clean, big oats, and I believe it will pay any farmer to try ten or twenty bushels of this seed."

If you are interested in any of this grain, write us at once for free sample, or send us ten cents for a packet of one of both kinds. We will also mail you free our little booklet entitled, "Big Money in Oats and How to Grow Them," with authority on how to increase the yield. The oat yield of this country could be doubled if the farmers would follow instructions in this book, gotten out by Prof. M. L. Bowman and Galloway Brothers, Oats Specialists.

Don't wait until it is too late. Many people were disappointed last year in not getting seed from us, because they waited until our supply was gone. We are now shipping orders direct from Minneapolis, Minn.

Address all communications to **GALLOWAY BROTHERS, 102 Jefferson Street, WATERLOO, IOWA**

PERFECT POTATO PLANTING

Every farmer knows the importance of proper potato planting. Here's a machine that does it perfectly. Has none of the faults common with common planters. Opens the furrow perfectly, drops the seed correctly, covers it uniformly, and best of all never bruises or punctures the seed. Send a postal for our free book.

IRON AGE Potato Planter

SAVE HIRED HELP

Iron Age (Improved Model) Potato Planter

No Misses No Doubles No Troubles

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35 YEARS GROWING EVERGREENS

and Forest trees. Over 38 tested hardy varieties. All nursery grown. We have over 50 millions and ship safely to all parts of the country. Our trees live and grow, because they have good roots. Large as well as small trees supplied. \$4.00 and up per thousand.

Our new catalog is a mine of information. You can have a beautiful Windbreak, Hedge, Shelterbelt or Screen with the hardest of Evergreens at a very low cost. Our Bargain sheet describes 50 bargain lots from \$1.00 per 100 and up. Millions of Nursery grown Forest trees. Shade and Ornamentals, Shrubs, Roses and Vines. Send today for free Catalog and Bargain sheet.

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WORLD'S GIANT TOMATO

This King of all Tomatoes is largest and most productive ever offered. Engraving was made from photo of plant grown by J. B. Gilbert. It grew 18 feet high and produced 5 bushels of fruit, very large, smooth, few seeds, solid all through, red in color, ripening very early and continuing all summer.

We want every person who uses seeds to see our Seed Book and test our seeds and we will give sample packet this Giant Tomato, also 3 other great novelties free for trial: 1 pkt. 16 Day Radish. Earliest Round Red Radish in the world. 1 pkt. Gigantic Cabbage. Largest heading kind known, from Europe. 1 pkt. Wonderful Lettuce. Earliest, largest, tender and crisp any time. Heads often 3 ft. around.

For only 6c postage and packing we will mail these 4 sample pkts. and big 1910 Seed Book full of novelties, Seed Offers and a coupon, good for a 10c selection from our Seed Book.

Fairview Seed Farms, Box 122, Syracuse, N. Y.

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PRICES BELOW ALL OTHERS

I give a lot of new sorts for trial with every order I fill. A Grand Big Catalog FREE illustrated with over 700 engravings of vegetables and flowers. Send yours and your neighbors' addresses.

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FLOWERING BECHTEL CRAB FREE

A GEM among flowering trees: A theme for poets. Extra hardy, flowers double-shell pink, delicious wild crab odor. We give it and our FREE beautifully illustrated Nursery Catalog.

A QUARTER OF A CENTURY in Sioux City! In its honor we make a grand offer to all customers. Four beautiful plants: Bechtel flowering, Crab Grand Paeony, two rare vines, six superb ferns. Too good to miss. Catalog tells all about it, and how to plant, prune and care for trees. Most complete line EXTRA HARDY NORTHERN GROWN trees, shrubs, vines, bulbs, roses, perennials, paconies, etc. in the northwest. Quality the best. Prices right. Write today for catalog 25.

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Now is the Time to Buy.

Seed crop almost a failure. Prices bound to be higher later.

Buy before advance. Write today for special low prices and free samples of our Pure New Crop Re-cleaned, Tested Clover Seed. Have Timothy and all grass seed. It is to your interest to get our prices and samples at once. 1910 catalog free.

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This is the name of a book about trees and vines, written by a man who has been in the business for 29 years—M. J. Wragg of Iowa. It tells where to get guaranteed stock and how to plant trees so they will grow. The book is free. Send for it.

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Best quality Vegetable, Flower and Farm Seeds. Alfalfa, Clover, Seed Potatoes, etc. We will send free with catalog a pkt. New Coreless Tomato, the best of all tomatoes.

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Do not fail to try our Bountiful Collection of Vegetable Seeds, best varieties on earth, postpaid for 60c. We also carry full line of Nursery stock. German Nurseries Box 114, Eastree, Neb.

fective as something far fetched and expensive. Newspaper wrappings, and hay ropes belong to the same class. It is best to remove these each summer, and apply again in the fall. It is a little difficult to secure perfect immunity from borers, when the orchard is located near native timber. Some use a heavy whitewash with a lump of fetta in it, and common flour paste with the same drug has its

friends, but none of these washes are a complete protection. If you have reason to expect much trouble with borers wrap trees with window screen, letting the lower end be buried in the soil, and the upper end tied closely. Or a wrapping of newspaper put on in the same way will be almost as good. But this will not last as well being liable to injury by storms.

Pruning the Fruit-Bearing Trees

By W. G. Baxter

THE high winds of the central West make it advisable to prune for low-headed trees. This prevents the fruit from being shaken from the trees in autumn, and exposes the trees as little as possible to the drying action of the winds in winter. Low-headed trees also make fruit picking and spraying much easier, and protect the trunk from sun-scald.

When the little apple tree is first set out, it should have its lowest branches coming out about twenty inches from the ground. If the lower branches are higher than this, then it is better to cut off the main stem about twenty inches above the ground. Shoots will then appear at this point and a new crown will be formed.

In setting out the young tree extreme care should be taken to shape the top so that it will grow into a form capable of sustaining a heavy load of fruit. Several small branches should be encouraged to form the framework of the crown, rather than three or four large branches. One-third to one-half the limbs can be pruned off when the tree is first set in the orchard. This reduces the leaf surface and prevents the draining of the tree's vitality from the shattered root system, which is very badly injured even in the most careful transplanting.

The main branches should be trained to come out at nearly right angles to the trunk, so as to form a wide-spreading open top. Limbs that tend to grow straight up, or grow towards each other, should be pruned off. Where two young limbs are growing close together and danger from crowding is bound to follow, one should be removed.

When a tree is first set out the mistake is often made of leaving three or four leaders in the crown of about the same length. In such a case a struggle for supremacy is sure to follow, each of the limbs will bend its efforts to get ahead of the rest so that it alone will get the sunlight. A much better plan is to trim back the limbs in the upper part of the crown to about the same length, with the exception of the limb nearest the center which should be left several inches longer than the others. The side branches then will grow towards the sides and a more rounded crown will result.

In an old orchard the height of the crown is already established, and all that can be done in such orchards is to open the tops so as to admit sunlight and give a free circulation of air. Many of the tops of old trees that have not been properly taken care of, shoot up into the air almost as high as a timber tree. Sometimes the mistake is made in such an orchard of trying to reduce the trees to a low head, after their habit of life has been formed. This results in tree butchery, and very little good can ever come of it. Such a violent operation disfigures the tree and causes the production of a dense growth of suckers at the extreme ends of the stubs, at the expense of the fruit crop.

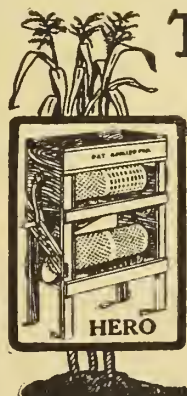
A better plan is to go into the upper part of the crown and cut back the leaders a few feet and trim out the smaller branches, so that sunlight will be admitted. Sunlight will aid fertilization of the blossoms and will give color to the fruit. Do not make the mistake of cutting out the big limbs that form the foundation of the crown unless these actually crowd against each other. Most of the pruning is better when confined to the central part of the head, taking out

small limbs here and there where they appear to be crowding each other. A few feet may be cut from the leaders near the central part of the crown to reduce the height of the tree, but this should not be too severe at the first pruning. Give preference to the limbs that tend to go to the sides and remove those that are inclined to grow straight up or towards the center of the tree.

In pruning an old tree that is not in bearing condition, a kill-or-cure policy will have to be adopted. The crown should be heavily pruned, and the weakened root system will often respond with surprising vigor, yielding a fair crop of fruit the following year.

Pruning is best done shortly before the sap begins to rise in the spring, though little branches can be removed with no appreciable injury to the tree at any time during the year. Big limbs should be carefully sawn from the tree and the cut surface should be daubed with some kind of paint.

A good plan to follow is to carry a hand pruning-shears in the hip



Three Sturdy Stalks

In Every Hill of Corn Guaranteed

The Hero Corn Grader selects every kernel for width and thickness so that they will fit the plates of your planter and drop the same number in every hill. No chance for mistakes, no guess work. 100 per cent certainty. If you want three kernels of a certain size and shape in every hill you will get it every time—and this is the only way you can be sure of even growth and a big yield.

The Hero is easily operated and will last a life-time. Cost is so low that the increased yield on a single acre of ground will more than pay for the machine in one year.

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Send for free book entitled "One Hundred Bushels to the Acre." It covers the subject of seed corn and fully describes the Hero Corn Grader.

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No. 4 Planet Jr Combined Hill and Drill Seeder, Wheel-Hoe, Cultivator and Plow, saves time, labor, seed and money. Adjustable in a minute to sow all garden seeds, hoe, cultivate, weed, or plow. Pays quickly, even in small gardens.

No. 12 Planet Jr Double-Wheel Hoe, Cultivator, and Plow is the handiest implement ever made for truckers and gardeners. Specially designed to work extremely close to plants without injury. Does away with hand-weeding.

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12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruiters, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS of HARDY "BLIZZARD BELT" fruits by next mail. Address

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Diamond Joe's Big White—A strictly new variety. None like it. It is the Earliest and Best Big White Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from thoroughbred inherited stock; every stalk bears one or more good ears, because scientifically handled, thoroughly dried and properly cured and had the most rigid examination. Big Seed Catalog FREE. It tells about all best farm, grass, garden and flower seeds grown. Write for it today.

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Known as HONEST seeds; always sold under three warrants. Special cash discounts given to everybody. (See page 1 of catalogue.) Gregory's Excelsior Pea, heaviest cropper of the second early varieties. On high land this pea will produce a crop where others fail. Very prolific on heavy soil.

NEW SEED CATALOGUE FREE

Largest and most beautiful we have ever issued. Rich with information for the guidance of farmers. Write to-day for a copy.

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20 Budded Peach Trees \$1.00. 40 Concord Grape Vines \$1.00. 8 Budded Cherry Trees \$1.00. They are strong, healthy, ready to grow. Catalogue and 25c due bill free. Write now for choice selections.

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Any seeds may grow, but Quality stands out in Seed Products. Get the Best for the West. Two of our seedmen trained in Gov. Laboratory and our 43 years experience teaches us to select Seeds of highest germination. Write for our Free catalog and Alfalfa Booklet.

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812 Massachusetts St. Lawrence, Kas.

CLOVER

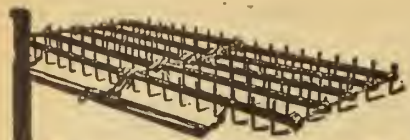
New Crop Iowa Grown Re-cleaned TESTED

and Inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc., at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free.

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Strawberry Plants

THE best varieties Write for catalog. W. W. Thomas, THE STRAWBERRY PLANT MAN, ANNA, ILL. Rhubarb and Asparagus root.



narrow


facts are hard to find. Many people think one harrow is just as good as another, but users of

VAUGHN FLEXIBLE HARROWS

know better. They talk like this:
It can do more work in the same length of time than any other harrow I have yet seen.
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I would rather give \$25 for one than have 25 of any other make given me for nothing.
T. D. Hall, Shingle Springs, Cal.
I would not change it for any other harrow I have seen.
Geo. Hutchins, Falls City, Neb.
Others write that they can do more and better work with half as many horses as with other harrows. Besides all this, a Vaughn Flexible Harrow outlasts any other. Has no bolts, no nuts, no levers to get out of repair.
Every HARROW is GUARANTEED to fulfill every claim of superiority that we make for it. Write today to

Vaughn Manufacturing Co.,
102 Main St., Jefferson, Wis.,
and get all the

facts



Money in Early Tomatoes

One of my customers sold \$102.35 worth of big, red tomatoes from 100 plants in his back yard. Another from 14 plants in her flower garden, sold 312 lbs., during July and August for \$16.70. It's all in the knowing how and in using the right seed. They used my new tomato—

Field's Early June

Earlier than Earliana, as handsome as Stone, as solid as Ponderosa, and a greater yielder than any of them. The greatest new tomato in 25 years. Small pkt., 20c; 3 for 50c; 1/4 oz., \$1. (This for especially selected seed, saved early.) My Garden Manual and Seed Catalog will give lots of pointers and good advice about gardening. It's well worth reading. Get it and see.

Henry Field, Pres.
HENRY FIELD SEED CO.
Box 25 Shenandoah, Ia.

The confidence felt by farmers and gardeners in Ferry's Seeds today would have been impossible to feel in any seeds two score of years ago. We have made a science of seed growing.

FERRY'S SEEDS

always do exactly what you expect of them. For sale everywhere. **FERRY'S 1910 SEED ANNUAL** Free on request.

D. M. FERRY & CO., Detroit, Mich.

WE Buy Empty FEED Bags

We want all the second-hand feed bags we can get. You can cut down on your feed bills by sending us your bags. Write us today for prices—tell us what you have—the quantity and the condition they are in. We'll quote you.

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SEED CORN ON TRIAL

TESTED—GUARANTEED—HIGH GERMINATION

Why plant doubtful seed corn when you can get the best that grows, at a reasonable price. PURE BRED, practical varieties—yields big crops and make good money. We have it. We know it so well that we fully GUARANTEE IT. Test it any way you want and if not fully satisfactory, return at our expense. Fair enough, isn't it? Better buy seed corn of high germination, be sure of your seed and take no chances on doubtful seed.

Wouldn't you like to have some samples of seed corn, suitable for your location and our fine illustrated catalog, telling about our guaranteed seed. All free—write today.

A. A. BERRY SEED CO.
Box 603 CLARINDA IOWA.

pocket, ready for use. Whenever you are in the orchard, and the little ailments of the trees can be promptly attended to, before the defect has reached a critical point and a surgical operation is necessary.

APPLE PRODUCTION.

To the Editor of The Homestead:

Your recent article on "Profits in Apple Orchards" is timely. In our usual heedless fashion we have again been oblivious to impending changes until startled by their presence. I believe there is no phase of our inadequate food supply of such poignant interest as the continued decrease of our apple production.

A shortage in our grain or vegetable production may be remedied in one year; in live stock two to four years is ample; but with the apple—than which we have no more important food, it requires eight to ten years to produce any appreciable increase, and the demand in the meantime may have been increasing even faster.

Perhaps no one factor has been so potent in bringing about the present state of affairs as another marked change which we are only just beginning to recognize, and that is, the mania for specialization. Man has tried its effects upon himself, his live stock and more recently upon his land, and the results in every instance have been satisfactory.

The theory has probably been applied in the corn belt more than elsewhere, but a crop rotation is being evolved in every section of the country which shall include, only those things which that section best produces; the economies of an already inadequate food supply making this the only obvious course.

The workings of the same laws took from the home the manufacture of cloth and clothing, and, more recently, of butter, cheese, etc. And this law, which decrees that man shall give his best thought to that which his soil and environment best produces—remembering, of course, that apple growing is a very exacting business—has practically eliminated commercial orcharding from almost the entire farming area for the very simple reason that our best apple regions are not located in or near our best farming territory.


Indeed, there is something peculiar about the location of our exclusive apple districts, with their respects to one another and home markets, as well as to their prospective foreign markets. This is especially noticeable in the four principal districts which are being developed at the present time.

These four districts also present—each a different problem of development, and the orchardist will pick his location perhaps more in accordance with these than with their opportunities. In the Ozark apple district, the only one centrally located—there is the problem of clearing the land and the ever present problem afterward of frost damage; but the land is still cheap and there are splendid opportunities for the growing of early vegetables and small fruit while the apples are growing.

In the new irrigated and dry-farming fruit section of the Southwest the same opportunities exist, with a growing home market and a water route to foreign markets; but land is very high in price, and the alkali dust very objectionable to some.

The two remaining districts—the valleys and irrigated portions of the Northwest, and the northwest portion of the southern peninsula of Michigan—contain more undeveloped territory than the two previous ones, and are attracting a larger number of settlers, especially the Northwest, but this has advanced land there very rapidly.

These two sections are much alike in climate, being both milder than the corn belt, not subject to such violent change; both healthful, with cool nights, pure water, and both tempered by the contiguous large bodies of water. But here the similarity ends. The Northwest has no special problem of development, beyond water rights, of course, but such a problem as that is it will always remain, and railroads are not everywhere and



Armstrong's Corn the Best

Proven at Ames College. Early Yellow Rose, Unequaled. Beats Reid's Yellow Dent. Bigger Yields. A Week Earlier. Dries Out Quicker and Shells Out as Much Grain. Bulletin 55 says 97 bushels per acre in field cultivation. Ripe Sept. 4th. Adapted to Middle and Northern Iowa. How is that for a standard variety? Best All Around Kind for Big Sound Crop. Have also 85, 90 and 100 day kinds. Our Salamander is the earliest big white. Have beside Silver Mine, Gold Mine, Leaming, Yellow Dent, Wisconsin White and many others. Quality the best. Crop sound, test O. K. 95% and better. No early freeze. Got ripe and dry. What more do you want? Prices \$1.50 per bushel and up. Buy from the Pioneer Seedmen, of Southwestern Iowa. Our 20 years experience is at your service. We are Growers. We have plenty of corn and can suit you. But can't tell all here. Send for free catalog and amplex to try.

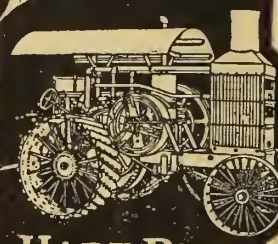
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ALWAYS READY—NEVER TIRED

No wasted hours feeding, caring for and harnessing horses. 10 or 15 minutes to oil up and you're off. Eats nothing when idle. The Ideal Power for plowing, discing, seeding, harvesting, threshing; corn planting, shelling, shredding, grinding; road grading, hauling and all kinds of heavy farm work. Hundreds in successful operation. OIL COOLED—FROST PROOF—DUST PROOF. BUILT IN 3 SIZES. USE GASOLINE, KEROSENE OR ALCOHOL. ASK FOR 48 PAGE ILLUSTRATED CATALOG.



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HART-PARR CO. 228 LAWLER STREET, CHARLES CITY, IOWA

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You can't afford to invest your money in a gasoline engine until you are absolutely sure of making the right selection. For your wife's sake you ought to send today for our Folder No. 130. There's something of interest in it for her, too.

THE ROOT & VANDERVOORT ENGINEERING CO., E. Moline, Illinois.

10c FLOWER GARDEN 10c

Our Mammoth Collection. 100 Easy Growing Varieties.

This is without question the grandest collection of flowers ever put up. They will produce a perfect cloud of bloom and fragrance from early summer until the snow falls. New beauties and wonders will open up every day. You can have bushels of blossoms of gorgeous combinations of shades and colors. Here are some varieties included:

Asters, all colors	Prize Poppies	Sweet Alyssum	Portulacas, 10 varieties
Pinks, 10 varieties	Ageratum	Godetias	Love-in-a-Mist
Forget-Me-Not	Sweet Mignonette	Rose of Heaven	Clarkias
Petunias, 10 varieties	Calendulas	Nasturtiums	Mourning Bride
Sweet Peas, 10 varieties	Ricinus, 12 feet	Everlastings, 10	Joseph's Coat
Cockscombs	Gillias, mixed	Sweet William	Margolds
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Four O'Clocks	Job's Tears	Weather Plant	True Ice Plant

This offer can not last long. The mammoth package will be sent for only 10c to prepay mailing packing, etc. Send today. **MRS. L. B. LOWARY, 333 N. 24th Street, Quincy, Illinois.**

Guaranteed Seed Corn

Reid's Yellow Dent, Wimples' Yellow Dent, Early Murdock, Dakota Gold Mine, Clay County White, Minnesota No. 13, Pride of the North, Farmers' Surprise (white) extra early. All South Dakota grown. Booklet B tells all about it, FREE. Write for it, do it now.

TOTTEN'S VERMILION SEED HOUSE, VERMILION, SOUTH DAKOTA.

PETTY BROS.' 10,000 BUSHELS

PURE BRED SEED CORN

Petty's Early Dent—Yellow
Petty's Eclipse—Yellow
Clay County White

RAISED ON OUR OWN FARMS

hand picked, graded and tested from 25,000 bushels, yielding 75 to 90 bushels per acre this year. Tests 98 to 100 per cent.

High Grade \$2 per bushel
Extra Select \$2.75
Crated Ears \$4

PETTY BROS., Box 4, Liberty, Mo.

PURE-BRED, TESTED SEEDS

EVERY lot of seed that we put out is subjected to a vigorous germination test. Write for our catalog, explaining our Breeding and Testing Systems and WHY OUR SEEDS WILL GROW. Ames experts select and test our seeds.

THE SUMMERS SEED HOUSE, Malvern, Iowa.

SEED CORN

We are the exclusive agents for H. J. Goddard's "SL-VERKING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern-grown seed corn. (Clovers, timothy, alsike, mixed timothy and alsike, garden seeds, etc., Cat. free. The Adams Seed Co., Box 1, Decorah, Ia.

Early Seed Oats

FERGUSON'S No. 1 White Early Newmarket Seed Oats have sprangley, long, heavy heads, large, plump kernels, thin hull. Graded and clean. Weighs 50 lbs. per bushel. Grows a long, stiff straw that stands up well. Ripens two weeks earlier than ordinary oats.

Produced 100 Bu. Per Acre in 1909

We have been breeding this one variety only, on our own seed farms in Canada for five years, and our entire stock is grown from our own seed; consequently we know its pedigree and guarantee every bushel to be as represented.

Read What the Govt. Grain Inspector and Farmers Say About Our Oats

P. L. A. Ferguson Co., Seedsmen, City.

Gentlemen:—Your Ferguson's White Early Newmarket seed oats grades No. 1 white, which is the highest grade. They are beautiful in color and unusually heavy, clean and admirably adapted for seed. Farmers could afford to pay a good price for such a quality of seed oats. J. N. BARNARD, Gov. Grain Inspector, Minneapolis, Minn., Oct. 1, 1909

P. L. A. Ferguson Co., Seedsmen, City.

Gentlemen:—We sowed 50 acres of your Ferguson's Early Newmarket oats this year. You have the best oats I have ever seen; they are all that you represent them to be.

NORTHWESTERN AGRICULTURIST.

P. L. A. Ferguson Co., Minneapolis, Minn.

Gentlemen:—Your oats were exactly as you represented them. They threshed 75 bushels per acre and 40 lbs. per bushel. This makes 93½ bus. per acre by weight. WALTER ROSENE, Kandiyohi, Minn., Dec. 4, 1909.

SPECIAL \$150 PREMIUMS

We will give \$100 in cash for the best peck of oats grown from our seed in 1910, also \$50 in cash for the best photograph of our oats in the field. Send 10c in stamps for large sample. Small sample free. Order at once.

THE P. L. A. FERGUSON CO.

Growers of Seed Oats

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*Clean Graded Seed
like graded stock
will double your profits
with half the work.
You are up-to-date
or you wouldn't read this
and you know it costs
less to double your yield
than double your herbage.
The Hawkeye Grain Grader
will do the trick at the cost
of a few bushels of grain.
The Maytag Co.
300 North Street
Newton Iowa*

WHITE PEARL SEED CORN

MEDIUM sized, splendid yielder, carefully bred and selected for 30 years. Never fails to mature. Will guarantee to grow. Subject to ten days' test for approval. Price, \$2.75 per bushel. Good grain sack included with order for two bushels or over. Do not go South for seed.

Reference—First National Bank of Steward.

L. D. HEMENWAY, Steward, Illinois.

Hoyt's Evergreens

Grow 30 feet in ten years, 60 feet in 25 years. Cultivated "rooty" stock that has the growing habit. Our methods are correct, as shown by 40 years' success. Order direct from proprietors. Scotch Pine, 18 to 24 in. \$10 per 100, 2 to 3 ft., \$15 Norway Spruce, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25 White Pine, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25 Arborvitae, 12 to 18 in. \$10 per 100, 18 to 24 in. \$15

Other sorts and sizes; also carload lots very cheap. Stock grown at Scotch Grove, Jones Co., Ia. Address Hoyt Bros., Office at Monticello, Ia.

SEED CORN

Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped subject to your own test. Send for free catalog. L. C. Brown, LaGrange, Cook County, Ill.

SEED CORN.

FOR corn that will mature, plant my northern Ill. grown Reid's Yellow Dent, and Griffith's Early Yellow Dent. Sold on approval. Satisfaction Guaranteed. Write for circular. W. G. Griffith, R. 2, McNabb, Putnam Co., Ill.

CLOVER SEED

NICE re-cleaned clover and 1909 crop, at \$9 per bu. Re-cleaned timothy, 1909 crop, at \$1.65 per bu. sacks, extra, 2c. Reference—First National Bank. Address MAHER & SON, PRESTON, IOWA.

KHERSON SEED OATS

OUTRIBLES common oats from 10 to 20 bu. per acre. Does not lodge or rust, just what you have been looking for. Sample sent to Farm Crop Dept., at Ames, was pronounced good. Samples and prices on request. Also free pamphlet on oats growing. Burt Bros., Route 1, South Ansonia, Iowa.

259 STRAWBERRY PLANTS \$1

OFFICE of Senator Dunlap, Warfield, Crescent or President. Send for my Free Illustrated Strawberry Book. THE WILSONS, STRAWBERRY BROS., WATERLOO, IA.

markets are distant. Michigan has one large problem of development, clearing and stumping, but that once conquered there are no other problems. The transportation facilities for the lumber business were all of the very best, and there are two water routes to the ocean as well. Indeed, with its nearness to Chicago, Buffalo and several inland markets, besides home markets, this region far excels all others in this respect.

It also has an established reputation for quality, and enjoys a practical frost immunity through late blooming. It would seem to be one of the important duties of the corn belt to investigate these apple lands with a view to their development, for here

is where the apple situation will grow more and more acute, as the process of elimination continues.

That this development can be made profitable no one can doubt, for it has already progressed enough in any of these districts to make estimation possible; and the resulting figures are so startling one hesitates to give them. But on a basis of 6 per cent interest returns a good orchard of ten or fifteen years planting acquires a valuation of one thousand to eighteen hundred dollars per acre.

When the original price of the land need not be over \$5 to \$10 per acre there is something radically wrong with America if the apple shortage continues. G. W. M.

Protecting Budding Fruit Trees

By Isaac Motes

In the prairie sections of the West, where the climate is so changeable, the success of the peach and apple crop may depend upon apparently very unimportant contingencies. A sudden frost on some crisp, cold night late in March may kill the buds and blooms when a very little forethought and labor on the farmer's part would mean the saving of them, and thousands of dollars' worth of fruit this summer. Experienced farmers have found that fruit can be protected more effectively if the trees can be prevented from blooming too early, than by anything possible to be done after the buds start and the trees are covered with blossoms, for if a frost comes then very little can be done to prevent the blooms from getting nipped.

All fruit growers should remember that it is not the warm afternoon sunshine in late winter or early spring which brings out the buds and blossoms. It is the thawing out and warming up of the ground. An early thaw in March, followed by a day or two of sunshine, will start the buds more certainly than weeks of sunshine while the ground is frozen, so the most effective method for insuring a fruit crop is to keep the buds from starting too early, and the way to do this is to keep the ground frozen around the trees as late in the spring as possible.

The fruit grower can do a good deal to prevent the early thawing out of the ground around his trees this spring if he will start now, during these hard freezes and heavy snows, and put a good thick covering of old straw around his trees, on top of the snow and frozen ground, or at least under the most valuable and prolific ones, and those standing in exposed places, if he has a large orchard and but little straw to use for the purpose. This straw will shield the snow and frozen ground from the warming influence of the sun, and may prolong the frost in the ground for three or four weeks in the spring, until all danger from early frosts is past. If repeated snows come and cover up the straw with layer after layer, the first freeze will be kept in just the same. Any old, worthless wheat or oat straw from your feed lot, which the cattle and horses have trodden on, will do, and after all danger from freezing is over this straw may be raked to one side and covered with damp earth, when it will rot that much quicker from being old when first put under the trees.

The farmer who has a large orchard and not much straw may find it impossible to give his trees this kind of protection, for the straw should be pretty thick under the trees, say five or six inches, and from five to eight feet around them each way, depending upon their size. In such a case it will pay the farmer to buy a few dozen loads from some neighbor who has it to sell, as the price should be low for tramped-over straw. It would be worth what it cost as fertilizer, even if he were in doubt, after cold weather is over, as to whether it had had much to do with saving the fruit.

If no straw can be purchased in your neighborhood, and if you have but little yourself, be sure to save what you can from your feed lots and put it under the trees as fast as you get it, for we will doubtless have

freezes in the central West until March 1st, or a little later, and straw put under the trees the last week in February will do as much good, probably, as if put there the middle of January. Corn husks or oak leaves will also afford good protection, or a mixture of all three, with the heavy, damp straw on top to keep the wind from blowing the leaves away should they become dry.

On perfectly level ground, or on the northern slope of a hill, this protection might not be necessary, but on the southern slope of a hill, where the brow of the hill is crowned with timber, or where the orchard is in a valley opening to the south, with higher ground to the north, east and west, forming a kind of sunshiny pocket in the land, straw under the trees will be the surest means of saving your crop.

We often see evidence in the forest of the fact that thawing out of the ground is more injurious to trees in the way of starting the buds than the sunshine upon their tops. The northern side of a hill, especially in the central and northern part of the United States, is almost always more heavily timbered than the southern slope, and where rivers and smaller streams flow east and west the northern bank, facing south, is almost always more bare than the southern bank, which faces north. The slanting rays of the southern sun strike the sloping southern bank very obliquely, and do not melt the snow on the ground so rapidly, though the sunshine is as warm in the tops of the trees on the southern bank as on the northern.

But, although the sun is so far south in winter, its rays strike the sloping northern bank perhaps at a right angle to the plane of the bank, and these direct rays melt the snows, thaw cut the ground and start the trees to budding early, and a late freeze comes and nips the buds, and perhaps kills some of the young trees or saplings, so in course of time the timber on that side becomes much thinner than that on the southern side, and of course a tender fruit tree, standing in the open and surrounded by bare fields, would suffer still more from exposure of this kind.

PLAN FOR MORE FRUIT.

To the Editor of The Homestead:

There are many farmers who own good farms, but do not have sufficient fruit for family use. Such farmers should plan this very spring to set out more fruit trees. They should get in touch with some reliable nursery at once and send in an order for whatever trees they need. Apples, pears, peaches, cherries, and plums should be grown in abundance on every up-to-date farm. The farmer cannot be true to his family of growing children and not supply them with plenty of fruit. There is nothing more healthful in the winter than the juicy apple. They save many a doctor's bill and make the children rosy cheeked and happy.

The farmer should set apart a plot of ground for his orchard. Plum trees may be grown in the poultry yard successfully, and they will furnish shade for the chicks. In my chicken yard I have a dozen plum trees and they are good sized and

THE BACK COVER OF OUR 1910 CATALOG



WE are the Bar Seed Corn people and can furnish Iowa with seed corn that will "grow and satisfy." We offer \$2,000 in cash premiums at State Fairs and National Corn Show. Our nursery stock is strictly Dakota grown. Our new 136-page catalog is absolutely free for the asking. Send for it today.

Gurney Seed & Nursery Company
Box 10, YANKTON, SOUTH DAKOTA.

IT PAYS TO SPRAY

The Iron Age 4-row Sprayer gives perfect satisfaction. Puts solution just where needed and in fog-like mist. Pump delivers spray under high pressure, thus reaching every part of vine, effectually killing bugs and preventing blight. Has Orchard Spraying attachment. Write for free catalog illustrating this and other Iron Age tools.

SAVE HIRED HELP



BATEMAN MFG. CO., Box 148 S, GREENLOCH, N. J.

50¢ PACKAGE OF SEEDS FREE

To induce you to give my seeds a trial and make you a permanent customer, I will send you for 10c. (silver or stamps) to cover cost of postage and packing, my **Prize Collection** consisting of 17 varieties radishes; 10 varieties lettuce; 15 varieties cabbage; 8 varieties carrots and my Wild Flower collection of over 50 varieties choice flowers.

This collection comes in a coupon envelope which when returned is good for 25c. on a \$1.00 order.

Send Today Give my seeds a trial at my expense. Send for these seeds today. Catalog free. Complete line of poultry supplies.

THEO. D. G. KOSS

488 National Ave. Milwaukee, Wis.

SEEDS FREE--8 PACKETS

To everyone sending 10c. for a pkt. of our Prize-taker, the best free tomato grown, we will send free one pkt. each of the following: Beet, Carrot, Cucumber, Lettuce, Onion, Radish and Glorious Mixed Flower Seeds. This 10c. refunded with first 25c. order. Send today before this offer is withdrawn. Our illustrated catalog of Garden, Farm and Flower Seeds is sent free.

J. W. Jung Seed Co., Dept. 15, Randolph, Wis.

SEED CORN

HIGH yielding, prize winning and sure to grow. Robert's Improved Reid's Yellow Dent won second prize at the International Corn Show at Omaha, 1909. Write today for free corn book explaining how it was raised, full particulars, prices, etc., of seed corn that was the largest yielding yellow corn in the world's class last year. Other varieties also. E. D. Roberts, R. 1, Red Oak, Ia.



SATISFACTION or money returned. Buy direct from growers and save middlemen's and large city expenses. We are overstocked with seeds of the highest vitality. Send postal today and names of 2 who buy seed and get packet Earliest Cabbage and Illinois catalog of seeds and bee supplies. Martz Seed Co., Grundy Center, Iowa.

800,000 Carolina Porter, 2 to 3 ft., \$12 per 1,000; 3 to 4 ft., \$18; 4 to 5 ft., \$22; 6 to 8 ft., \$35; 10 to 15 feet, \$55. Boxed free. Fruit, shade, ornamental and nut-bearing trees of every description. Our catalog will save you money. Free to everybody. Sheelin's Wholesale Nurseries, Danville, New York.

SEEDS

Choice field and garden seeds. Good clover, timothy, etc. Ask for samples and catalogs. E. J. HOBERGER, 409-411 East Fifth Street, Des Moines, Iowa.

SEED OATS

I HAVE choice, re-cleaned seed oats for sale—Champion, Kherson and Swedish Select. For prices write G. GREGORY, Ralston, Iowa. C. & N. W., main line.

Strawberry Plants Senator Dunlap, 75 cents per 100, prepaid. Other varieties; circular free. C. J. MACKEY, West Liberty, Iowa.

bear fruit each year beside furnishing a splendid shade for the hens. The ground for the trees need not be the best on the farm. It may be a hillside sloping to the south or even a rocky piece of land. The trees should be set in the early spring so they may get a good start before the drouth of summer. I like to dig the holes large and deep enough to give the roots plenty of room to sprangle and to give the tree a firm setting. I believe it is a good plan to have the rows from thirty to forty feet apart. This will allow cultivation between them and the shade will not be too dense to insure a good crop yield. By giving the orchard good care, in a few years the trees will be bearing and the farmer's heart will be glad.

W. D. Neale.

RAISING POTATOES UNDER MULCH.

To the Editor of The Homestead:

A subscriber living near Superior, Neb., sends the following about raising mulched potatoes:

I would like to have you tell me how you plant your potatoes that you mulch. I marked some low land, last year, with a lister, covered the potatoes with a cultivator, then put on my mulch. They were no good.

I think you made your mistake in selecting low ground. Mulched potatoes should be on a good slope or on land with good sub-surface drainage. I have my best luck on a hillside. To begin with, the land is plowed in the fall and it is then manured with a spreader, only well rotted manure used, at the rate of about ten spreader loads to the acre. In the spring this is plowed again, the manure turned under, and the land marked out for planting with a cultivator, the rows two and a half feet apart. The seed is dropped by hand and covered with a harrow by harrowing the cross way. Mulching is put on as soon after planting as convenient, never after the potatoes have sprouted enough so sprouts are sticking through the ground. It is best to mulch right after planting, and to plant immediately after plowing, if the weather is dry, for all the moisture is then kept in the soil and the seed sprouts evenly and well.

Mulching potatoes is something of an art. The covering must not be too deep or too thin. A common failing is to get it too thin. Old hay is the best, as straw is apt to have more or less grain in it, and perhaps some weed seed, that will grow. Potatoes under mulch will rot unless the drainage is good—that is, the seed will rot before it will sprout, if the weather is rather wet. This is why good drainage is important. Again, if low or poorly drained land is selected, the crop does not grow well, even if a good stand is secured. On a slope, well manured, there is no danger of too much moisture, while the mulch insures enough, and the manuring and mulch together makes large, smooth potatoes.

Henry Hatch.

HOW TO INCREASE CROP YIELDS.

The crop yield of every state of the grain belt can be enormously increased by three methods:

1. The use of better seed.
2. Improved methods of culture.
3. Increasing the fertility of the soil.

This is the contention of A. M. Ten Eyck, professor of agronomy in the Kansas State Agricultural College. Professor Ten Eyck says:

The average crop yields in this state are too low. One of the most important lines of work which has been carried on by the agronomy department of the experiment station during the last seven years relates to means and methods of increasing the yield per acre. There are three important factors which have to do with increasing crop yields: better seeds, improved methods of culture and greater soil fertility. The work in testing varieties and breeding crops at the experiment station has shown that it is possible to improve the average yield of the standard crops in this state 25 per cent by the single factor of introducing and planting pure seed of well bred and high producing varieties.

To illustrate, as reported in Bulletin No. 144, one of the improved varieties of winter wheat grown on the college farm actually produced a net profit of nearly \$7 an acre as an average for three years above that produced by common scrub wheat of the same type. Farmers all over the state who planted this improved wheat have reported similar results, the increase in yield from the well-bred wheat being often much larger than the differences obtained at the station. It is hard to believe that one variety of wheat, improved by breeding and selection, will out-yield another strain of the same variety

which has not been improved, as much as 50 per cent; but many reports from reliable farmers over the state indicate that this has happened when the two strains of wheat were grown in the same field, side by side.

This improved seed wheat has been distributed largely over the state, and redistributed again by the farmers, so that hundreds of thousands of acres of it now are growing and will be harvested next year. It is not folly to predict that the resulting increase in yield of wheat next season from the planting of this better seed will astonish the world.

The station has accomplished a similar work in the improvement of corn and thousands of bushels of well-bred seed have been distributed. Corn is more susceptible to soil and climatic changes than wheat, so that the well-bred seed does not always give the best results from the first year's planting; but breeding will tell in the corn crop, as shown by our experiments, in which the high yield row seed has produced from 10 to 20 per cent larger yields per acre and 25 to 33 per cent more seed corn than the average corn from which the improved strain was originated.

The possibilities along this line of increasing the yields by the planting of better seed are shown by the reports which have been received from farmers throughout the corn belt of this state reporting sixty to eighty-bushel yields where the average for the county was twenty to thirty bushels. It has been shown by experiments carried on for the last six years at the Kansas Station that it is possible to increase the yield of corn 10 per cent simply by practicing the better methods of preparing the seed bed. When corn has been planted with the lister, winter or early spring plowing or listing of the ground previous to the planting has given an increase in crop as an average for six years, amounting to six bushels of corn an acre each year, as compared with ground which received no cultivation previous to planting.

To bring these facts to the thousands of farmers who cannot come to college for instructions and supplement the knowledge of the agricultural press and experiment station bulletins, the college has organized a course in home reading on these subjects so as to give these the proper information by correspondence courses conducted by the college.

If you should go to the city and see a thin-faced, haggard-looking man working in a shop, don't jump at conclusions. Don't imagine he has consumption, is bothered with seventeen kinds of itch or has any of the other ailments so vividly described in the family almanac—he's only boycotting meat.

SEEDSMEN AND THEIR CATALOGS

ARMSTRONG SEED CORN.

Seed corn buyers are referred to the advertisement on page 24 of Messrs. J. B. Armstrong & Son, of Shenandoah, Iowa. The various varieties of corn offered for sale by this firm are enumerated in their advertisement, which also gives some additional facts bearing on the high standing of the Armstrong seed. Of particular value this year is the fact that the Armstrong seed ripened dry before the freeze, and that it is therefore bound to grow under any reasonable conditions. For catalog and samples write to Messrs. J. B. Armstrong & Son, of Shenandoah, Iowa.

PURE-BRED SEED CORN.

The advertisement of Messrs. Petty Bros., on page 24, sets forth some of the advantages of the pure-bred seed corn now offered for sale by that firm. Last year they sent corn in all directions, and the results were of the most satisfactory character, their corn standing the effects of the bad season remarkably well. Among the patrons of the firm is Mr. R. M. Massey, of Kearney, Mo., who wrote as follows: "I purchased last spring Clay County White corn and got good results. I had an almost perfect stand and produced one of the best crops that I ever raised. It was no trouble to find ears that weighed from one to one and one-half pounds. This corn shelled out more than any corn I ever saw. I am confident that I made fifteen bushels per acre more by planting this variety." We have at hand thousands of letters of like character, which are effective proofs of the corn for sale. Messrs. Petty have on hand 10,000 bushels of pure seed selected from 25,000 bushels raised from their own farm. This corn tests from 98 to 100 per cent fertile. For additional particulars write Messrs. Petty Bros., Liberty, Mo.

THE ADAMS SEED COMPANY.

Every reader of this paper is interested in seeds which will grow, and which are true to name. Such seeds are the sort sold by the Adams Seed Company, that advertise on



page 24. While this concern is a comparatively new one, it is made up of gentlemen who have for nearly half a century been en-

Six
Kernel
Test

SEED
CORN

Our
Booklet
Free

We can supply you with seed corn which will increase your yield.

Our Swastika Seed Corn is pure bred, pedigreed, cross bred, FULLY GUARANTEED, suited to your locality, and tested to a six-kernel germinating test under the supervision of J. R. Steward, member of the American Breeders' Association, and one of the leading authorities on corn in the world.

Our booklet entitled, "The Development of the Corn Plant," which deals with the development of the maize from its discovery to the present day, will be sent free to any reader of this paper.

We refer to any bank or individual in this part of Illinois. Write Dept. D.

Guaranteed Seed Corn Producers
PLANO, ILLINOIS.

THE TOWER SURFACE CULTIVATORS

Spare Every Plant Root and Slaughter Every Weed

"Our One Way" to grow corn, cotton, sorghum, potatoes, vegetables, etc., is proved true by many years of successful introduction of Towers' Surface System of Cultivation. Legions of farmers have accepted it and agricultural experts indorse it. To those not yet convinced that the shovel plow is convicted of "plant-slaughter," we wish to send our free literature, including an illustrated "Treatise on Corn Culture."

If you would increase your crop, address the original manufacturers of Surface Cultivators.

J. D. Tower & Sons' Co., 40th St., Mendota, Illinois.



(One Right Way)

100 TRANSPLANTED EVERGREENS \$8

Express Prepaid

These trees have been transplanted and root-pruned, which gives them the large abundance of roots necessary to the life of the tree. They are from 1 to 1½ feet in height and first class in every way. Then they are backed by the farthest guarantee of any nursery in the U. S. and by the reputation of

Iowa's Greatest Evergreen Specialist For Forty Years.

We have 50 special bargains that will surely please you. Our guaranteed hardy fruit trees and small fruits will prove hardy or they cost you nothing. GET OUR NEW CATALOG FOR FULL DESCRIPTION. Our new catalog is chock-full of bargains on our guaranteed Hardy Apple Trees, Plums, Cherries, Small Fruit, Shade Trees, Evergreens, Roses and Flowering Shrubs.

Bristow Nursery Co., 210 Bridge St., Hampton, Iowa.

Clarinda Nursery

If you want a part of the best 200,000 hardy Iowa Apple, Peach, Pear, Plum and Cherry Trees, all grown by me, and all standing in the nursery row; all on whole root

seedlings; all buds and scions from twenty-five of the best orchards here; where seven to fifteen acres made the owner more clear money than the rest of the 90 or 160 acres; if you want to plant trees or berry plants of quality, it will pay you to write for catalog or come five hundred miles to see my trees before buying. Address

LEWIS ANNAN, CLARINDA, IOWA.

CLOVER

THE ADAMS SEED COMPANY, Box 1, DECORAH, IOWA.

GARDEN SEEDS FREE!

FIVE PACKETS FOR TRIAL

We have arranged to give to each new customer absolutely free five regular sized packets of our Superior Guaranteed Garden Seed, your selection. Write today for 25c certificate, which entitles you to these free packets and our big 100-page illustrated catalog, so you may make your selection and become acquainted with our seeds. If you give our seeds a trial we are sure you will become one of our pleased customers. Write today for our big 1910 100-page illustrated seed catalog. Address

A. A. BERRYSEED CO., Box 203 Clarinda, Ia.

gaged in the seed production business. They care, therefore, know all the requirements, and appreciate the need of care and purity of seeds. For catalog address the Adams Seed Company, Box 1, Decorah, Iowa.

STRAWBERRY PLANTS.

Messrs. J. L. Todd & Co., strawberry specialists, place an advertisement on this page of this issue that will be well worth investigation by all our readers. Mr. J. L. Todd, as senior member of this firm, has expended a great many years in his investigation of the strawberry plant and its culture. He is now offering to our readers the benefits of their experience. He is selling strawberry plants direct to readers of The Homestead at the rate of \$1 for 200 choice plants. In addition to this he sends along with each purchase a book of instructions on the planting and growing of strawberries and small fruits. For catalog or other information write to Messrs. J. L. Todd & Co., R. F. D. No. 3, Des Moines, Iowa.



200 Plants \$1.00

100 of that choice new variety Senator Dunlap and 100 of two other choice varieties, and printed instructions with each order on how to grow them.

J. L. TODD & CO.

R. 3, Indianola Ave., Des Moines, Ia.

SEED POTATOES

CARMEN NO. 3—best late, white, yield: better than Rural N. Y., which they much resemble. Save money by buying direct from the grower. 5 bushel or more, 80c bu. Less amounts \$1 bu. S. C. Buff Orpington eggs \$1 per 15. Extra good mating. Address O. J. EARLY, BRISTOW, IOWA.

Mammoth Clover Seed A limited amount for sale this year. Grow on my own farm in Linn Co., Iowa; new crop; re-cleaned and inspected by Pure Food Commissioner. Guaranteed to be genuine Mammoth Seed. Price now, \$10 per bu., including new bags, when two or more bu. are taken. M. Taylor, R. 1, Road, Center Point, Ia.

The PLATTE VALLEY RED CEDARS GROWN from seed, have no equal for wind-breaks; hardy and vigorous anywhere. Write for price list. L. E. GARLAND, AFTON, IOWA. Successor to Garland & Fowler.

Pure Kherson Oats

GUARANTEED. Best by test. Treated for smut. Does not lodge or rust. \$1 per bushel, single bushel lots; 85 cents, 10-bushel lots or over. BAGS FREE. Aye Bros., Second St., Blair, Neb.

The Cyphers Incubator Pays From the Start

Begin right—whether you are in the chicken business on a large or small scale. Don't "experiment up" to Cyphers quality. Get the best first. The Cyphers means no moisture troubles; no heating troubles; no ventilation troubles. Biggest percentages; healthiest chicks. It's the best by test.

The World's Standard Hatcher

Used by more Government Experiment Stations, more State agricultural colleges, more well-known Fanciers and Practical Poultrymen than all other makes combined. A hot-air machine—no metal tanks to rust out. Self-regulating; self-ventilating. Cyphers Incubators and Brooders are guaranteed to you personally. You have 90 days—hatches—to prove a Cyphers Incubator. Money back if you want it—after fair trial. 60-page Catalog free. Address Nearest City. Cyphers Incubator Co., Department 42, Buffalo, N. Y.; New York City, N. Y.; Chicago, Ill.; Boston, Mass.; Kansas City, Mo.; Oakland, Cal.



A Town Lot is Big Enough

Poultry raising possibilities were never better. Profitable on small or large scale. Geo. H. Lee knows. He started in a small way. He now has 3000 laying hens. He invented the Mandy Lee Incubator, the Mandy Lee Brooder, and all the appliances he could not buy. He experimented with his own money, not customers'. The

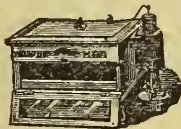
Mandy Lee Incubator

was offered to the poultry public when perfected, not before. Inexperienced can start with Lee's twenty years' successful work. Lee's "Chicken Talk," a book written by Mr. Lee himself, and his Incubator and Brooder catalogue are ready to mail. Both free. Send for them to-day. There is no poultryman's need omitted from this catalog. It is a complete showing of the things that made Mr. Lee a successful poultry raiser.

GEO. H. LEE CO., 1173 Harney St., Omaha, Neb.

Hatch Chickens By Steam

Make the hatching of your 1910 chicks sure and easy. Stahl's Excelsior or Wooden Hen Incubators are not experiments. They are so sure that a fertile egg means a live, healthy chick. You get real incubator value in either machine. Equip



early, and grow and market your early-hatched broilers when prices are high. Early money is the biggest. Write to-day for free catalog.

GEO. H. STAHL, Box 7 W Quincy, Ill.

\$7.50 FREIGHT PREPAID FOR 120-EGG INCUBATOR

at once. Other sizes priced very low.

Ideals always hatch most and strongest chicks. Metal covered; safe. Delivered free east of Missouri River, north of Tenn. Write for delivered price beyond—Big Free Book; best guide to success and economy. J. W. MILLER CO. Box 305 Freeport, Ill.



Victor Incubators and Brooders



Quality tells in the hatches. Right principles, right materials, right building, right ventilation, right regulation, means more chicks and greater profit. Victor quality costs but little more and the difference on one or two hatches more than pays it. Write us first. Our book "About Incubators" will be sent free. It has important information for incubator buyers. G. O. ERTLE CO., 171 Kentucky St., Quincy, Ill.



\$7.55 Buys Best 140-Egg Incubator

Freight Propaid Double cases all over; best copper tank; nursery; self-regulating. Best 140-chick hot-water Brooder, \$4.50. Ordered together, \$11.50. Satisfaction guaranteed. No machines at any price are better. Write for book today or send price and save waiting.

Belle City Incubator Co., Box 52 Racine, Wis.

SHOEMAKER'S BOOK ON POULTRY

and Almanac for 1910 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15c. C. C. SHOEMAKER, Box 679, Freeport, Ill.

50 Best Paying Varieties

Pure Bred Chickens. Ducks, Geese, Turkeys, Eggs, Dogs and Incubators. All at low prices. Send 4c for my Book which gives reliable information worth many dollars to you. W. A. WEBER, Box 906 Mankato, Minn.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

MOLTING OF EARLY HATCHED PULLETS.

To the Editor of The Homestead:

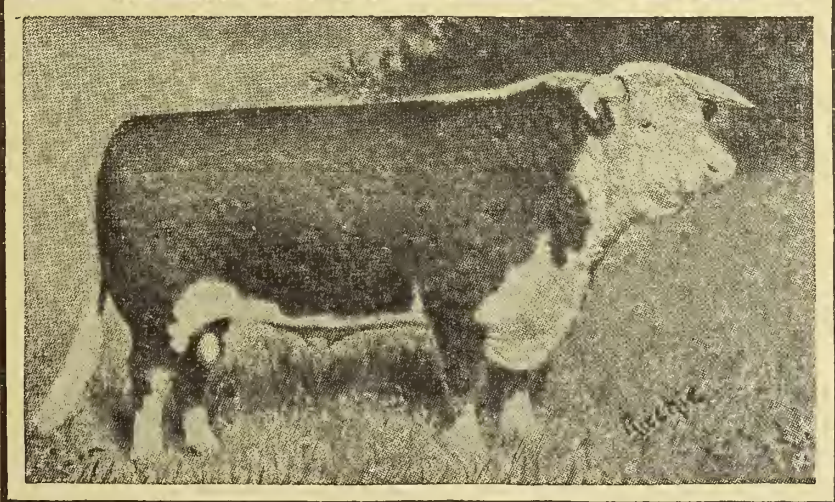
Mrs. Robert Ross, an Illinois subscriber, asks help in her somewhat rare dilemma:

I have brown Leghorn and Barred Plymouth Rock pullets that were hatched in March, 1909, and began laying eggs in the late fall. Now they are shedding their feathers and cannot be told from the old hens. The latter are now molting also, but the pullets' combs look shrunken and half colored. The chickens are all healthy and fat, and have a new, clean, warm coop. Our neighbors are having the same trouble. Our weather has not been unusual, except that we had a pleasant fall with few storms. Both my Brown Leghorns and Barred Rocks are full bloods.

Chickens, particularly those of the Leghorn family, will molt the first year if hatched too early. Of course, the very early chickens are all right when either broilers or early market birds are desired, but later hatches are preferable for breeders. Another trouble is that these chickens will molt twice a year the rest of their lives. I was told this by an old Leg-

modern Brahmas and Cochins which have taken the place, in name and improved breeding, of the Shanghais and Cochins Chinas. Not a Java could be found in this show, although Javas are mighty good chickens, and to those who like black chickens I would not hesitate to recommend the old-time Black Java I knew so well in my boyhood days. Now I find Black Langshans and Black Orpingtons in large numbers. Both of these varieties are very attractive and are good utility chickens, yet I can't quite see why they should be kept by poultry people in preference to the Java.

One coop of Black Spanish at Hastings looked lonesome, indeed. This old breed hasn't changed any. Spanish are just as good layers as any of the small breeds, but that useless growth of white kid stuff all around their heads has always been a lot of bother to chicken raisers who want to keep their chickens looking nice. The old roosters would fight and tear each other's white face to pieces, making them look pretty tough. One party



Beau Paragon, the noted Hereford sire, will be well represented as the sire of many good things included in the sale of Herefords to be held at Kansas City, Mo., on March 8th and 9th, by the following breeders: C. W. Armour, Kansas City, Mo.; S. L. Standish, Hume, Mo.; Benton Gabbert, Dearborn, Mo.; S. J. Gabbert, Dearborn, Mo.; C. N. Moore, Lee's Summit, Mo.; J. W. Lenox, Lake City, Mo.; W. A. Dallmeyer, Jefferson City, Mo.; R. T. Thornton, Kansas City, Mo.; Funkhouser Estate, Plattsburg, Mo.; R. H. Hazlett, Eldorado, Kan.; T. W. Carmichael, Odessa, Mo.; Makin Bros., Grandview, Mo.; Scott & March, Belton, Mo.; James A. Gibson, Odessa, Mo.; Egger Hereford Cattle Company, Appleton City, Mo. For catalogs address Mr. R. T. Thornton, 1309 East 15th St., Kansas City, Mo.

horn breeder as having occurred many times in his experience.

The entire flock under consideration, seems to be abnormally late in the molting. December is late enough for the molting process to be finished, and the birds ready to begin business again. As the pullets have not the stamina of the older birds, and winter cold is so severe, the period is a hard one for them, testing sorely their constitutional vigor. This will explain the pale, shrunken combs, and the general look of unnatural condition.

If the case were mine, I should see to it another year that if possible, the molting time should be forced, so that it might come in a suitable season. I should not hatch breeders before late April or May. This will prevent a recurrence of the trouble.

Mrs. S. B. Titterington.

POULTRY—AS IT WAS AND IS.

To the Editor of The Homestead:

In looking over the fine exhibits of all leading varieties of poultry at the Nebraska State Show, held at Hastings, I could not help but marvel at the number of new varieties and the great advancement in breeding since the time when I first became interested in pure-bred poultry.

Thirty-five to forty years ago I knew chickens called Shanghais, Cochins Chinas, Javas, Spanish, and possibly a few others that I do not now recall. At Hastings I saw the

told me that he used to raise large numbers of Spanish, but on account of the males looking so bad when they got scarred up, he changed to Black Minorcas, and as far as usefulness is concerned he sees no difference in the two varieties.

I think a whole lot of the good old Barred Plymouth Rocks and the exhibit of them at Hastings was good to see. But Plymouth Rocks have changed a great deal. They look better in every way now than they used to, years ago. The present day style of bars and color is a great improvement over the old-time dark hens and light roosters. The breeding of high-class Barred Plymouth Rocks nowadays is certainly a science and the man or woman who is able to produce the ones good enough to win the blue ribbons at the shows deserves a gold medal. Right here I want to say that one reason why I like the old Black Java is because we wouldn't have these fine Plymouth Rocks if it had not been for crossing the Java with the Dominique. The goodness of the Plymouth Rock is proof that there is

much merit in the two breeds used to produce it and which are now almost extinct.

Rhode Island Reds, of which I never knew anything about until late years, are fine chickens—all but their name. That name reminds me of a kind of chicken that a Nebraska man once advertised. He called his breed the Nebraska Silver Mine, and when the name was first mentioned I thought that some fellow had made a strike out somewhere in the sand hills and was going to open up a mining camp right away. But Rhode Island Reds are getting more popular all the time. But even if I don't just fancy the name, this breed is the greatest thing that the state of Rhode Island ever produced and they just had to scatter the breed out over the whole country because Rhode Island is only about big enough to accommodate one ordinary-sized chicken yard.

About the prettiest chickens in the entire show were the Silver Spangled Hamburgs. I remember now of seeing some of them years ago, but the old-time Hamburgs were smaller and not so prettily marked as they are now. There was a large showing of Hamburgs at Hastings, and no wonder, because the most extensive breeder of Silver Hamburgs in the United States lives in Nebraska.

Yes, Nebraska is a great poultry state. Some of the other states do not

One Gallon of Oil For a Hatch

One filling of the lamp; no heat waste; no danger with the X-RAY INCUBATOR

Thermometer always in sight. Eggs need not be removed during entire hatch. Other incubators require frequent filling and consume three times as much oil as the X-Ray. We absolutely guarantee to hatch 100 chicks with one gallon of oil. The X-Ray controls the flame—burns high or low; generates just enough heat to maintain hatching temperature. Absolutely no waste. Others always use a strong flame and allow the surplus heat to escape.

The X-Ray Heats to Hatching Temperature in 15 Minutes

Others require 6 or 7 hours. Ventilation complete. Simply raise the lid—all hatching fumes rise instantly. The only really different incubator. Enameled steel-covered; rosewood finish. Glass doors on top; lamp in center; flame control. Write now for free book and know the greatest of all incubators. Address X-RAY INCUBATOR CO., 18th St., Wayne, Neb.



On My Plan or Yours?

Tell me you will try, on my plan, a "QUEEN"—or say what other plan you prefer. We'll fix it up. Best incubator, low price; 1 day freight. Three months' trial! Five years' legal guarantee. NOW send for catalogue. Wickstrom, Queen Incubator Man, Box 10, Lincoln, Neb.

RAYO INCUBATOR

SAVES Money, Labor, Oil.

NOTE: 1st—Double heating system gives equal radiation. 2nd—Turn eggs without removing tray. 3rd—One filling of oil tank for entire hatch. 70 day trial guarantee. If not as represented return and money refunded. Freight prepaid. Write for Free Book. The RAYO INCUBATOR CO., Burt St., Blair, Neb.

Send Us a Postal for Our Price

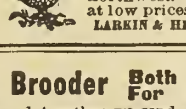
Bring your name and address on a postal and we will quote you the lowest price on

Racine Incubators and Brooders guaranteed to hatch highest percent of eggs. Like a trial, all improvements worth having. Best incubator proposition ever offered. Write today. RACINE HATCHER COMPANY Box 135, Racine, Wis.



LATEST BOOK "Profitable Poultry"

Best published. Describes most successful Poultry Farm. 45 Varieties pure-bred poultry, beautiful, hardy and money makers; thousands to choose from. Lowest Price on fowls, eggs, incubators, etc. Sent for 4 cents. Berry's Poultry Farm, Box 112 Clarinda, Iowa



43 Leading Varieties of pure bred Chickens, Ducks, Geese, Turkeys;

also Holstein cattle. Prize winning stock. Oldest and largest poultry farm in the northwest. Stock, eggs and incubators at low prices. Send 4 cents for catalog. LARKIN & HEZBERG, Box 13 Mankato, Minn.

125 Egg Incubator and Brooder Both For \$10

Why pay more than our price? If ordered together we send both machines for \$10.00.—Freight paid east of Rockies. Hot water, double walls, dead-air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery underneath the egg-tray. Both Incubator and Brooder shipped complete, with thermometers, lamps, egg-testers—all ready to use when you receive them. All machines guaranteed. Incubators are finished in natural colors showing the high grade lumber used—no paint to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money. It pays to investigate the "Wisconsin" before you buy. Send for the free catalog today, or send in your order and save time.

WISCONSIN INCUBATOR CO., Box 105, Racine, Wis.

give us credit for being as great as we actually are, but that doesn't hurt us any. We are going right ahead. The fine fowls from every part of the state attracted the attention of the largest number of people that ever attended a state show in Nebraska. It was the first time the show was ever held in Hastings and the result was that many people made their first visit to a poultry show that week. And some of those people will start raising chickens this year.

P. M. Wickstrum.

HENS, EGGS AND INCUBATORS.

To the Editor of The Homestead:

The season is fast approaching when the hopes of the poultryman soar skyward, as he lays plans to secure as large returns as possible from the eggs he intrusts to hens, or places within the wooden mother. Everything in the outset seems rose-colored, for has he not taken all possible pains to insure success? But, alas! Success in hatching is not an insurable matter. So many things may happen to interfere with the fruition of bright hopes, that one must always be prepared for disappointment.

Supposing the eggs to be fertile and fresh, other conditions may be unfavorable. In the first place, there are hens—and hens. Not all hens are good hatchers. Rev. E. C. Peterson, the parson of Houdan fame, tells of how one season he put two hens side by side, placing under them eggs of equal freshness, gathered from the same pen, and gave them the same care during the period of incubation. One of these hens hatched out a strong brood of chicks, the other none at all. On examination, the eggs the unsuccessful hen had brooded contained fully developed chickens within them, but they were "dead in the shell."

Another clutch of eggs was given this hen, but with the same result. Her temperature was not at fault, for this was tested several times. One more chance was given her late in the season under the most favorable conditions possible, but again she failed to hatch a single chick. It seemed impossible to ascertain the cause, but the fact was evident that this particular hen was constitutionally unable to fulfil her maternal mission.

We have all had occasion to recognize the fact that some hens are poor sitters. A restless hen will never answer to use as a hatcher early in the season, when steady warmth is an imperative condition to success. She may do fairly well when settled warm weather comes, when frequent cooling of the eggs will do no harm. Before condemning a restless hen, however, make sure that the restlessness is not caused by vermin. The best hen in the world cannot do her duty when tortured by lice or the ubiquitous mite. All hens should be well dusted, or in some way be insured freedom from insect pests, before intrusting them with eggs we so much desire to see turn out healthy chicks. This safeguard is in the interest of both humanity and profit. The nest should also be so treated that mites will not bother. Locate all nests in a secluded place, but not a dark one. Provide each broody Biddy with a small, individual run in which her food and water are placed, and the chances are good that she will reward one amply for the care bestowed.

Hens allowed to sit in the very early spring need far more attention than later. It is well to close the front of the coop so that no hen can leave the nest except at stated seasons when she is released. If the weather is cold, it is well to cover the eggs with warm flannel while she is off the nest.

In artificial incubation, unceasing vigilance is likewise the price of success. If the incubator has been previously used, the egg chamber should be washed out most thoroughly with an antiseptic 10 per cent solution or strong disinfectant. It is hardly possible to use too much. Let not a single inch escape the saturation. Even the regulating thermostat should have its dose. Soak the trays in the solution, and when everything is dripping wet, close the machine and light the lamp. When all is dry, everything is sweet and clean, and free from germs. Scientific investi-

Ask for Book No. 27



Forty pages in colors

WHAT EVERY FARMER WANTS YOU CAN GET IT FREE

JUST drop us a post card and we will send you, free, the latest edition of our **Corn Book**, containing the best information from the highest authority on selection and care of seed corn. You can get more and better corn without increased cost by following this book.

Every page illustrated and printed in colors.

The fact that this book also contains description of

The Deere No. 9 Corn Planter

the most highly perfected machine on the market, adds to its value.

Increased accuracy secured by the famous **Deere edge-selection drop**, means anywhere from ten to fifteen bushels per acre over the old style of machine. Repeated tests have shown the above increase in favor of really accurate planting.

We have plates for all kinds of corn and other seeds. Instantly changed from hill to drill drop without changing plates.

Fertilizer attachment that distributes either in hill or drill.

Illustration here shows the regular runner, but stub runner or disc openers may be had on special order.

In fact, the **Deere No. 9** is strictly up to date in all real improvements.



Deere No. 9 Edge-Drop Planter
Highest Accuracy in Drop

Deere & Mansur Co.
Moline, Illinois.

gators tell us that all this care is necessary to prevent that most dreaded of disease—white diarrhea. If the eggs are also treated with the solution to kill any disease germs adhering to the shells, so much the surer the result. One well-known poultryman writes:

Last season we made a trial of this method regarding the eggs. We again sprayed the egg chamber just before placing the eggs in it, and then put the eggs in, while the egg chamber was saturated with moisture. In a few minutes the eggs were covered with the moisture that stood on them in drops, and we can unhesitatingly say that no evil resulted, but we had, at least in one case, a 100 per cent hatch. The chicks were strong and healthy growers, and we shall pursue the same method again this season.

Our parson poultryman, referred to at the beginning of this article, gives a suggestion that is quite new, probably, to the most of us, and whose value is easily recognized. He advises the drilling of a small hole in the top frame of the glass door of the incubator. A small wooden plug or cork will suffice to close it when not in use. If, at any time during hatching, the egg chamber seems too dry and sufficient moisture is not evidenced by its condensation on the glass, take warm water, heated to 105 degrees, fill a syringe with it, and through the hole inject several jets of water into the egg chamber. He claims to have achieved surprising results from this simple device, which allows the introduction of moisture without the opening of the incubator door.

It is not the province of this article to recapitulate the old, well-known conditions of success, such as careful selection of eggs for hatching, the correct feeding and care of hens, etc. These points are, of course, indispensable, but if we can also avail ourselves of the discoveries resulting from modern investigation and experiment, we may hope more surely for that often elusive goal—success.

Mrs. S. B. Titterington.

COLD WEATHER CASUALTIES.

To the Editor of The Homestead:

In the very best of regulated yards, the unexpected frequently happens. If in the face of discouragement we can march serenely on and profit by the experience we of a surety have one of the two kinds of grit necessary for success in the poultry business. So long as the ground is bare our flock is turned out each morning when they quickly seek the shelter of the barns, and sheds, busy and consequently happy all day. However, in the boys' parlance, there was at one time "too much of a good thing."

One day last winter, as usual, the curtain in front of the perches was raised and the flock filed eagerly out. No more attention was paid to them, until about ten o'clock, when it seemed that the dwelling was getting colder, and I began to wonder about my chickens. Donning wraps, I hastened to their usual haunts, and not a fowl in sight! The atmosphere was filled with a purple haze and the air was so cold as to be difficult to breathe. Chilled with an undefined dread I passed on to the south side of the buildings and found my pets crowded together, while the combs of the choicest cockerels were frosted. The comb of each bird was anointed

with medicated vaseline before he was placed in the house. In a few days the wanted color was restored and not a single tip was lost.

I read not long since that a lot of frozen combs is fully as disastrous as an outbreak of cholera or roup. This assertion is like that of the good old soul who once tried to prove to me by the Bible that the earth is square, and desired me to so teach my pupils. The only thing that is the matter with it is, that it isn't so. That frozen combs are a serious drawback, I am more than willing to admit. That it wholly unfits for breeders is an entirely different proposition. If true, nine out of ten breeders would be put out of business this year. Such assertions are bewildering to the novice.

One poultrywoman of my acquaintance trusted her men folks to close the hen house door, one cold stormy night, and with disastrous results. Her most valuable cockerel that had been bought at a long price was yet timid in his new quarters, and had taken refuge in a nearby coop. She was horrified the next morning to see one of the boys enter the kitchen, holding at arm's length what appeared to be a bundle of icy feathers, beneath which dangled a pair of frozen legs and feet that thumped together like sticks. Instead of berating mankind in general and her own in particular, this resourceful woman quickly prepared a pail filled with soft snow. Into this she placed our cockerel, and covered him up to his head with the snow.

In a short time the frost came to the surface in the form of icy scales. Within twenty-four hours he was as lively as a cricket, and in two weeks apparently as good as new. A weakling would probably have succumbed. As a rule I would not advise such heroic measures. But when we give into at least two figures for a good bird, and get it, we are loath to give him up without a fight.

Minnie G. Stearns.

Last fall we made a four-nest-in-one box, using galvanized iron entirely. It is securely put together with rivets, and has been used since then on trial. We have, the material to make all nests needed after that pattern, now. Such nests are practically insect proof.

POINTERS.

—Mr. J. D. Smith, of Montezuma, Iowa, has Pekin ducks and Silver Laced Wyandottes for sale as per advertisement on page 29.

—Mr. Edward Dooley, of Selma, Iowa, is quoting prices on Single Comb Brown Leghorn cockerels in his advertisement on page 29.

—Twenty choice Black Langshan cockerels are offered for sale by Mrs. J. H. Coats, of Vail, Iowa, in her advertisement that appears on page 29.

—Barred Plymouth Rock eggs at \$1 for thirteen or \$5 for six sittings are advertised for sale by Mr. J. C. Hardman, of Brayton, Iowa, on page 29.

—Eggs from high-scoring Rose and Single Comb Rhode Island Reds are offered for sale by Mrs. T. A. Gough, of Bristow, Iowa. See advertisement on page 29.

—Readers of The Homestead in need of White Plymouth Rocks or Single Comb White Leghorn chicks, cockerels or hens, will do well to write Mrs. Jennie P. Irvin, of Montezuma, Iowa. She selects her stock with great care and some of her Rocks are direct from the Fishel farm. They are all finely marked and have beautiful white plumage. Her Leghorns are simply beautiful and keep

the egg basket well filled, even at zero weather. See advertisement on page 29.

—Mr. T. A. Davenport, of Belmond, Iowa, breeds Rose Comb Brown Leghorns exclusively. He is quoting prices on eggs in his advertisement that appears on page 29.

—Miss Nettie Crane, of Blencoe, Iowa, has a number of Buff Orpington cockerels and a few cocks which she is offering for sale in her advertisement found on page 29 of The Homestead.

—Twelve Buff Wyandotte cockerels and twenty pullets are offered for sale at bargain prices, if taken at once, by Mr. A. E. Goodman, of Indianola, Iowa, in his advertisement on page 29.

—Mrs. W. F. Prather, of Atlantic, Iowa, breeds White Wyandotte chickens exclusively. Her advertisement offering eggs from two pens of high-scoring birds, also from barnyard flock, will be found on page 29.

—Scored or unscored Single Comb Rhode Island Reds are offered for sale by Mr. J. T. Nicholson, of Belleue, Iowa, in his advertisement that appears on page 29. Mr. Nicholson breeds Rhode Island Reds exclusively and will be prepared to furnish eggs in season.

—A considerable number of inquiries have been received from subscribers of The Homestead asking for the names of those who are breeding Black Spanish chickens. Those who have eggs or fowls of that breed for sale would find a splendid market by advertising in these columns.

—Mrs. J. E. Baxter, of Walnut Grove, Minn., has some extra choice White Holland toms which she is pricing reasonable. She also has some of her best Buff Cochins cockerels left. They are real choice birds and parties in need of such will do well to correspond with her. See the advertisement on page 29.

—Mr. Harry C. Blake, of Maquoketa, Iowa, in sending in copy for his new advertisement found on page 29 of The Homestead advises us that he has some good Rose Comb Rhode Island Red cockerels yet for sale and that he will be prepared to furnish eggs for hatching from five choice pens, also utility eggs for incubators.

—Mr. C. H. Drake, of Hazleton, Iowa, has an advertisement on page 29 of The Homestead in which readers will be interested, who are desirous of purchasing White or Barred Plymouth Rocks, Rhode Island Reds, Cochins Bantams, Single Comb White Leghorns or Toulouse geese. Send for his egg and chick circular.

—Quotations on Single Comb Black Minorca eggs will be found in the advertisement of Mr. Nick Loewen, proprietor of the Lawler Poultry Yards, Lawler, Iowa, that appears on page 29. Mr. Loewen breeds this variety of chickens exclusively. They are of the Northrop strain and his hens averaged fifteen dozen eggs, each, last season. He guarantees satisfaction.

—On page 29 of The Homestead will be found the advertisement of Mr. Albert A. Foster, of Russell, Iowa, offering Barred Plymouth Rocks for sale. In furnishing copy Mr. Foster writes as follows in regard to his stock: "These birds are the production of yard No. 1, strictly pure Bradley-bred birds. They are A-1 birds, and will raise the standard of any breeder's flock. A limited number left and going fast."

—Mr. W. W. Vanghn, of Marion, Iowa, writes: "Trade in Buff Cochins is lively and we still have a nice lot of big, thrifty, even-colored, well-weathered cockerels for sale, also can spare a limited number of good breeding hens and pullets. We are making a special price on a dozen hens and pullets and a cockerel to mate with them for \$20, or six pullets and cockerel for \$12. Send order at once." See advertisement on page 29.

—Mr. S. M. Compton, of Newton, Iowa, in making change in his advertisement found on page 29, writes: "I have had a splendid demand for all my poultry this winter. Have sold all the White Plymouth Rock cockerels, Pekin drakes, White Holland turkey hens and Embden geese hens I have to spare, but have a nice lot of White Plymouth Rock hens and pullets to spare yet, also a few Pekin ducks, White Holland toms and Embden ganders."

—Mrs. H. J. Hess, of Waterloo, Iowa, writes as follows in regard to her poultry: "My Barred Plymouth Rock cockerels are all sold except some very choice ones suitable to use for pen matings. They are of large size, splendid color, narrow even barring and closely related to noted Chicago prize winners. I have just a few choice Mammoth Bronze turkeys left. They are extra heavy boned and for fine marking would be hard to beat. My turkeys have been winners in leading shows in former years for both myself and my customers. Can spare a few

White Wyandotte hens and pullets, also cockerels, choice stock."

—Mr. Dan McCarty, of Winthrop, Iowa, advertises a fine lot of Single Comb Buff Orpington cockerels for sale in his advertisement that appears on this page. They are large, vigorous birds and are quoted at reasonable prices. He will also have eggs for sale in season.

—Buff Plymouth Rocks are advertised for sale by Messrs. C. & C. T. Van Lint, of Pella, Iowa, in their advertisement on this page. At the recent state show at Des Moines, without question the largest show ever held in Iowa, they won first on cockerel and pen and fifth on pullet.

—Mr. E. E. Healy, of Bedford, Iowa, has for sale a choice lot of Barred Rock cockerels, some with score cards by Judge A. B. Shaner. He also has a few Single Comb Rhode Island Red cockerels. If you are in need of a good cockerel write him for prices. See advertisement on this page.

THE QUEEN INCUBATOR.

The advertisement of the Queen Incubator occupies a prominent position on page 27 of this paper. The Queen is a good friend to the poultry raiser, because it does just exactly the work that an incubator ought to do. It hatches as large a percentage of chicks as any other incubator, secures strong, healthy chicks that are prepared to make a successful struggle for existence. The Queen brooder follows up by taking care of the chicks and together the pair make a combination that should be found on every farm. For catalog, price list and other important information on the chicken question, write to the Queen Incubator Company, Box 10, Lincoln, Neb.

DOGS.

SCOTCH COLLIE PUPPIES For sale. \$5 to \$8. Very best breeding; will make fine workers. Write us your wants. T. A. Stevenson, Shannon City, Iowa.

English Bull dog, Beaver Monarch: registered young heavy weight, for sale or exchange for chickens; ped., photo. Vaughn Bailey, Lamoni, Ia.

Great Collie Sire stud, young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

FOX TERRIERS—king of the rat terriers. Puppies and grown stock for sale. Few choice S. C. Rad cockerels. Address Sabot Kennels, Pella, Iowa.

WYANDOTTES.

MY GREAT LAYING STRAIN WHITE WYANDOTTES

Very fine Cockerels, Cocks, Hens and Pullets for sale. I can mate up pens and trios to please. I have been in this business for years and can please you if quality is desired. Write me at once, stating just what you want. Let me book your egg order now and have shipment made later. Eggs from a beautiful farm-range flock \$1.25 per 15, \$6 per 105. Also Scotch terriers, the world's greatest rat-ter, from puppies to grown dogs for sale.

S. Harr, Riverside, Iowa.

I Have the Best White Wyandottes I ever raised, now ready for sale. \$10 trio a specialty. Quality stock. J. M. Erichson, Sinter, Iowa.

WYANDOTTES White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. A. L. Anderson, Indianola, Ia.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3.15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

Buff Wyandottes 12 cockerels, 20 pullets, for sale at a bargain if taken at once. A. E. Goodman, Indianola, Iowa.

Buff Wyandottes I have a few good cockerels for sale. Address Mrs. Grant Davidson, R. 5, Scranton, Iowa.

Buff Wyandotte Cockerels, bred from show yard strains, for sale. Also a few pullets. Geo. M. Deroe, Mason City, Ia.

Silver Laced Wyandotte cockerels for sale; larger and better than ever. Write today. S. R. Young, Greenville, Iowa.

ORPINGTONS.

THE S. C. Buff Orpington Farm will put on the bargain counter for the next 15 days, 40 hens and pullets. Prices cut in two. They go at \$1 each as long as they last. Get busy. Need room for breeders. Address John T. Stadler, Minden, Neb.

S. C. Buff and Black Orpingtons, best strains. Cockerels, \$2 and \$3 each. Pullets, \$1.50 and \$2. Eggs, \$2 and \$3 per 15; utility, \$6.50 per hundred. E. B. Conable, Box A, Independence, Ia.

ORPINGTONS S. C. Buff. A fine lot of cockerels, \$1.50 to \$3 each. Eggs in season. Address Dan McCarty, Winthrop, Ia.

SINGLE Comb Buff, Black, White and R.C. White. Scored ckls. Scientifically mated breeders. Eggs. Baby chicks, mating list. Dr. Evans, LeGrand, Ia.

Single Comb Buff Orpington cockerels and pullets. Eggs in season. Eggs from fine Houdans reasonable. Mrs. Chas. Gutches, Floyd, Ia.

BUFF White and Jubilee Orpingtons for sale, including eggs very cheap till May 1st, the time we must move. P. N. Dunn, Humboldt, Iowa.

Buff Orpington Ckls. Also a few cocks, grand in color, size and shape. Address Nettie Crane, Blencoe, Iowa.

MINORCAS.

S. C. BLACK MINORCAS EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

RHODE ISLAND REDS.

FREE TO CUSTOMERS TEN CENTS TO OTHERS.

Lesson on color, illustrated by sample feathers. How to buy foundation stock and mate for best results.

Who Are Fake Advertisers. Explanation of the Hale score card system. Egg catalog now ready.

Mrs. F. W. McIntyre, R. 5, Red Oak, Iowa.

S. C. RHODE ISLAND RED SPECIALIST.

S. C. Rhode Island Reds

TOMPKINS STRAIN

Write for descriptive circular.

P. H. Thiel, Renwick, Humboldt Co., Iowa.

S. C. R. I. REDS

BRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. M. Finkenhagen, Ellsworth, Ia.

R. C. R. I. Reds. Cherry Red strain. Eggs from 5 pens; also utility yard. Scored cockerels for sale. Harry C. Blake, Maquoketa, Ia.

R. C. RHODE ISLAND REDS: \$1.50 per sitting of 15, from highly-bred fowls. Splendid layers. Address S. M. Snider, Shannon City, Iowa.

S. C. R. I. Reds exclusively, from best strains. Scored and unscored ckls. and females priced right. Mrs. W. I. Mouser, R. 5, Red Oak, Ia.

EGGS From choice mating; Rose Comb R. I. Reds; great laying strain; best of stock. Address A. L. Sanders, Perry, Iowa.

35 S. C. R. I. Red cockerels; extra large and deep red at \$1.50 to \$2 each. Eggs in season. Address L. C. Welch, Bedford, Iowa.

S. C. Rhode Island Reds A choice lot of scored birds for sale; eggs in season. Lee Nichols, R. 4, Woodward, Ia.

Rose Comb Rhode Island Reds. A choice lot of cockerels scored by Todd, for sale. D. E. Witmer, Polk City, Iowa.

S. C. R. I. Red cockerels; fine birds, from \$2 up to \$5. A few R. C. R. I. Red cockerels at a bargain. Mrs. Sophia Rader, Laurel, Iowa.

S. C. Rhode Island Red cockerels that are real Reds. Score cards by Russell. Address F. L. Reinhard & Son, Ottumwa, Iowa.

POSE and Single Comb R. I. Reds; fine bred; high scoring eggs, 15 for \$1, 50 for \$3, 100 for \$5. Good laying strains. Mrs. T. A. Gough, Bristow, Iowa.

S. C. R. I. Reds Exclusively. Stock for sale; scored or unscored. Eggs in season. J. T. Nicholson, Bellevue, Iowa.

S. C. R. I. Red eggs from high scoring stock, that are proven winter layers; perfect type and color; \$1.25 per 15; \$5 per 100. C. W. Kellogg, Knierim, Iowa.

LEGHORNS.

ROSE COMB BROWN LEGHORNS EXCLUSIVELY. From prize-winning and high-scoring stock. Cockerels or hens, \$1.50 each, for \$7.50, \$15 par dozen. Eggs, 100, \$4; 200, \$7.50. 12 years with this breed. R. R. STEWART, R. 2, Charles City, Iowa.

ROSE COMB BROWN LEGHORNS EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$5; 200 for \$9. T. A. DAVENPORT, BELMONT, IOWA.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5. 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. Sunny Slope Poultry Farms, Oskaloosa, Iowa.

Rose Comb Brown Leghorn cockerels: choice birds; prices right. Eggs in season. Address Mrs. Laura Mather, Clarksville, Ia.

ROSE COMB Brown Leghorn cockerels for sale, high-scoring, \$1.25 each. After January 15, 1910, \$1.50. Address Eva D. Tutt, Alta, Iowa.

FIFTY ROSE COMB BROWN LEGHORN COCKERELS \$1.25 each; very choice. J. A. Albertus, Portsmouth, Ia.

For Sale Rose Comb Brown Leghorn cockerels, 12 strain, price \$1.50 each; 4 for \$5. Address J. E. Treloar, 1617 W. 9th St., Des Moines, Ia.

Cockerels for sale—R. and S. C. White Leghorns and Black Langshans; single birds \$1.25, 6 for \$1 each. Joseph Kappes, Jr., Ashton, Iowa.

S. C. W. Leghorn cockerels \$2 and \$3.50 each. Eggs \$1.50 for 15; \$6 for 100. Chas. J. Mackey, Box 523, West Liberty, Iowa.

Rose Comb Brown Leghorns; prize-winning cockerels for sale. Also eggs in their season. For prices address Mrs. E. L. Claypool, Spencer, Ia.

Single Comb Brown Leghorn Cockerels \$1 each. Edw. Dooley, Selma, Iowa.

R. C. B. L. COCKERELS For sale; price \$1. W. T. Griffith, Lorimer, Iowa.

BRAHMAS.

Light Brahma Cockerels ONE to five dollars each. I have a fine lot of them; no pullets for sale. Eggs in season. Address FRANK P. HEALY, BEDFORD, IOWA.

POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

COCHINS.

Buff Cochins Exclusively 50 large-framed, colored, well-feathered cockerels at \$2 to \$5. Write W. W. Vaughn, Mariou, Iowa.

LANGSHANS.

BLACK Langshans. 20 choice cockerels for sale, \$1 and \$1.50 each. Parent stock scored 94 points. Eggs in season. Farm range. Mrs. J. H. Coats, Vail, Ia.

BABY CHICKS.

BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

PLYMOUTH ROCKS.

Buff Plymouth Rocks and Black Langshans

Prize-winning birds, scored and unscored, \$1 to \$3.50 each.

C. E. Malone, Atlantic, Ia.

219 Egg Strain B. P. Rocks

AND these birds are Blue Ribbon winners. I have a few cockerels and females for sale, from \$1.50 to \$5 each. Address

W. A. HARTMAN, Box 242, Winterset, Iowa.



BARRED PLYMOUTH ROCK COCKERELS

LARGE size and extra heavy bone, with that deep blue, clear barring, not brassy, sired by high-scoring cockerels from hens and pullets weighing from 7½ to 11 lbs. Price \$2 to \$4 each. Write your wants to M. A. Easthouse, Hartley, O'Brien Co., Ia.

BARRED ROCKS

IF you want one of those large, very dark, close-barred, heavy-boned ckls. from my \$50 Bradley bird, to head your best yard, write me at once. Descriptive circular for the asking, giving full particulars. Albert A. Foster, R. 2, Russell, Iowa.

White P. Rocks For sale; scored and unscored chickens, scoring as high as 96½ points. Unscored cockerels for \$1.50 and \$2; scored ones, \$2 to \$7; one for \$10. Eggs in season. Mrs. J. C. Forsythe, R. 5, Griswold, Iowa.

Barred Plymouth Rock Eggs I AM offering choice eggs from the leading strains at \$1 for 13; six sittings for \$5. Write me at once. Address Jno. C. Hardman, Brayton, Iowa.

Buff P. Rocks Cockerels and pullets, scored. Anyone wanting breeders, \$2 to \$5. Eggs from my high-scoring birds, \$5 per sitting of 15. Address W. C. Bradley, Bussey, Iowa.

CHOICE Utility B. P. Rock cockerels; large, good shape, well barred and will please you. Also some very choice S. C. W. Leghorn cockerels. M. E. BIRCHARD, HAZLETON, IOWA.

Buff Rocks Winners of highest awards at Iowa and other leading shows this season. Cockerels for sale; also eggs. Write your wants. C. & C. T. Van Lint, R. 4, Pella, Ia.

150 Bradley and Thompson B. P. Rocks COCKERELS AND PULLETS. Henry Schlatter & Sons, Lawler, Iowa.

BARRED Rock cockerels, bred from carefully selected matings; vigorous, fine, even barring; extra care taken in selecting ckls. to suit customers; from \$2 up. Chas. McCaskey, Route 2, Ogden, Iowa.

WHITE ROCKS Trappednest, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up. 15 eggs \$3, \$2 and \$1. Address Rev. James A. Slack, Yorktown, Iowa.

White Rock Cockerels \$2 to \$5 each. Few pullets and hens. Also some extra fine Bull Terrier pups. Address F. H. ECKERT, CHARTER OAK, IOWA.

BARRED PLYMOUTH ROCK HENS AND PULLETS FOR SALE. GEO. F. BLAKE, MAQUOKETA, IOWA.

BARRED ROCK COCKERELS Choice utility birds. Vigorous, large bone, deep barring; \$1.25, \$1.50, \$2 and \$3, according to age. A. O. Loken, Alta, Iowa.

WHITE PLYMOUTH ROCK cockerels for sale from Fishel strain and stock scoring 96. Price \$1 to \$2 each; pure white. D. A. Good, Ogden, Iowa.

Smith's Buff Rocks. Have a few scored cockerels for sale. Will close out right. Eggs in season. C. F. Smith, Route 5, Griswold, Iowa.

BARRED ROCK COCKERELS Scored and unscored. Also a few M. B. toms for \$5 each. Mrs. J. A. Campbell, R. 5, Manning, Iowa.

BARRED ROCKS Have some fine pullets, hens and cockerels for sale. Eggs for hatching in season. Mrs. W. S. Kern, Iowa City, Iowa.

Buff and Barred Rocks 85 large, fine cockerels, extra heavy-boned, scoring 88 to 94½; farm raised. E. C. Rice, Gray, Iowa.

SCORED M. B. turkeys; toms, \$6 up; pullets, \$3 up. From high-scoring stock. White Rock cockerels. Sterling Martin, Melrose, Iowa.

BARRED Rock cockerels, Bradley strain, cockerel mating. Choice stock for sale, from 90½ to 91½ point birds. H. B. Simpson, Albany, Illinois.

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of choice quality. Address Mrs. M. C. Thompson, Route 2, Atlantic, Ia.

18 B. P. Rock cockerels; strong, vigorous birds, with great size and quality, and narrow, deep barring. Some show birds. C. G. Good, Ogden, Ia.

50 W. P. Rock Cockerels from my laying strain, scoring from 90 to 94. Eggs in season. T. F. Martin, Maxwell, Iowa.

TURKEYS.

WHITE Holland turkey toms, extra choice ones, \$5; smaller ones, \$4; order from this advertisement. Mr. and Mrs. H. E. Clark, R. 3, Dallas Center, Ia.

50 White Holland Turkey toms, extra choice birds. Prices reasonable. Address Mrs. H. A. Sexsmith, Greenfield, Ia.

For Sale M. B. turkeys. Have bred them fifteen years; size, markings and a square deal our motto. Mrs. Harry Davidson, Adrian, Mo.

Mammoth Bronze Turkeys Choice young toms, \$7; hens, \$4. J. Nissen, Meservey, Cerro Gordo Co., Iowa.

MISCELLANEOUS.

FOR SALE—W. P. ROCKS AND S. C. W. LEGHORNS COCKS and cockerels \$2 and up. Hens \$1 each or \$10 dozen. Mrs. Jennie P. Irvin, Montezuma, Ia.

For Sale S. C. Br. cockerels, \$1 each. Rhode Island Red cockerels, \$1 and \$2 each. Address John M. Hall, Williams, Iowa.

MISCELLANEOUS.

COCKERELS AND PULLETS

FINE, large, early hatched breeders; farm range stock; Barred P. Rock, White P. Rock, Buff P. Rock and Single Comb Brown Leghorn. Circular free if you mention this paper.

C. E. MATTESON, Pewaukee, Wisconsin.

MAMMOTH BRONZE TURKEYS AND PEKIN DUCKS

From Prize-Winning Stock for Sale. George M. Grimstead, Mitchellville, Iowa.

WANTED TO BUY

THOROUGHLY BRED Leghorns, White and Brown, hens and pullets, and a few cockerels. Also R. I. Reds, Orpingtons, Red Caps, Cornish, Indian Games, Hamburgs, Indian Runner ducks, other varieties. Dean Swift Poultry Co., Des Moines, Ia.

1910 CATALOG FREE

Illustrates and gives prices of 45 varieties land and water fowls and eggs. This book should be in the hands of every person interested in poultry for profit. Address S. A. Hummel, Box 56, Freeport, Ill.

There is Money in Eggs

START right. Get the laying and winning kind. Single Comb White Leghorns, Indian Runner ducks, large White Holland turkeys. Egg catalog free. Mary Culver, R. 1, King City, Missouri.

FOR SALE

30 Standard-bred Barred Rock ckls., weight 7 to 9 lbs., Shellabarger strain. Price, \$1.50 to \$3 each. 10 large-boned, well-marked M. B. turkey toms; Mo. King strain. Price, \$5.50 to \$7 each. 5 old turkey hens, \$4 each; 1 yr. g. tom, \$7.50. M. V. Leeper, Redfield, Ia.

25 S. C. R. I. Red Ckls.

50 B. P. Rock cockerels, \$2 and up. Square Deal Poultry Farm, Newton, Iowa. E. H. Bodley, Prop.

S. L. WYANDOTTES---PEKIN DUCKS

Fine birds at \$1.50 each.

J. D. SMITH, MONTEZUMA, IOWA.

White H. Turkeys Barred, white; P. Rocks, S. C. W. Leghorns, Pekin and Indian R. ducks, Toulouse geese. Stock and eggs for sale. We won 110 prizes and four silver cups this past year. W. M. Shaw & Co., Monroe, Iowa.

Barred P. Rock cockerels, sired by the cockerel winning first at Cedar Rapids, 1909, and first cock at Oelwein, 1910. Egg and chick circular of Rocks, Reds, W. Cochins, Bantams, S. C. W. Leghorns, Toulouse geese. C. H. Drake, Hazleton, Ia.

48 Breeds chickens, ducks, geese, turkeys. Fowls, eggs, and incubators at low prices. America's greatest poultry farm. Send 4c for 16-page 16th Annual Poultry Book. R. F. Neubert, Box 807, Mankato, Minn.

ROUEN DUCKS For sale. Show birds or good breeding stock. Good B. P. Rock cockerels; large-boned, nicely-barred. Prices reasonable. J. H. Howarth, Monton, Iowa.

BUFF COCHIN B. P. Rock cockerels, and White Holland toms, sired by a 35 lb. tom, and Pekin ducks. For good birds at low price address Mrs. J. E. Baxter, Walnut Grove, Minn.

BARRED PLYMOUTH ROCKS Have some a choice hens of leading strains. Also 35 Toulouse geese, best of stock. Mrs. James Cockerton, Whiting, Ia.

EGGS—All varieties; Leghorns, R. I. R., Orp's, Wyandottes, Moricas, Rocks, ducks, geese, turkeys. Cat. free. Wm. Koall & Co., Box M, Hampton, Ia.

PRIZE-WINNING stock. Mammoth W. Holland turkeys, W. Wyandotte chickens. Eggs for hatching in season. Mrs. C. F. McLochlin, Gray, Iowa.

MAMMOTH Bronze turkeys. Large, heavy-boned birds. Some B. Langshans cockerels; also W. Wyandottes. Mrs. A. Kilton, R. 2, Audubon, Iowa.

Barred Plymouth Rocks and Golden Wyandottes; 200 for sale. Get your order in early. J. L. Todd, Route 3, Des Moines, Iowa.

Choice W. Wyandottes and Mammoth Pekin ducks; in ducks; McCleave strain. E. S. DYAS, BELLEVUE, IOWA.

BLACK and W. Langshans, Buff Orp's, R. C. R. I. Reds, Lt. Brahmas, M. B. turkeys, scored or unscored. Prices right. Mrs. S. E. Newell, R. 6, Audubon, Ia.

FOR SALE—Some extra fine pure-bred Rose Comb Brown Leghorn and W. Wyandotte cockerels. Write for prices. LeRoy Cottew, Alta, Iowa.

Choice Silver Laced Wyandottes and Pekin ducks; scored; unscored. Prices right. Mrs. F. R. McLaughlin, Manning, Ia.

Barred Plymouth Rock, White Wyandotte, Houdan cockerels, \$1.50, \$2, \$2.50 each. Hens also. W. C. Frazier, Atlantic, Cass County, Iowa.

PRIZE-WINNING Pekin ducks for sale; never have been beaten where shown. Also S. L. W. ckls. Mrs. Edith Eggabroad, R. 1, Grundy Center, Ia.

S. C. B. Leghorns Barred Rock cockerels, Pekin ducks; good stock, \$1 each. Address Ida Hepp, Audubon, Iowa.

Buff Rock cockerels, Pekin ducks and Embden geese. Prices reasonable. Eggs in season. Mrs. Charles Steddon, Lacey, Iowa.

B. P. Rock ckls., \$1.25 to \$3 each; and a few Rouen drakes for sale at \$1.50 each. Also booking orders for eggs. Robt. Hunt, Earlville, Iowa.

Toulouse Geese Rouen and Muscovy ducks; either sex; prices right. Frank J. Clouss, Clare, Iowa.

CHOICE M. B. turkeys, B. P. Rock cockerels and W. Wyandottes; large, heavy-boned stock, finely marked. Mrs. H. J. Hess, R. 6, Waterloo, Iowa.

OUR LEGAL DEPARTMENT.

(Continued from page 13.)

than \$25, nor more than \$50, in an ordinary case. (4) A good attorney would want a fee of at least \$100 in any kind of a case in the federal court, and it is customary to pay a retainer to the attorney before he commences proceedings.

TROUBLESOME DOG.

A Subscriber, Sycamore, Ill.—I had a pet dog killed on the public highway. The dog was shot while chasing a team. He was in the habit of chasing teams that passed along the road and I found it impossible to break him of the habit. The party who killed the dog is known to me. His team was not frightened at the time the dog was shot. Can I recover damages?

Answer.—You could probably recover damages, although your case is greatly weakened by the fact that your dog was in the habit of chasing teams, and was actually chasing a team when shot. Get another dog and teach him better manners; your case for damages is hardly worth fooling with.

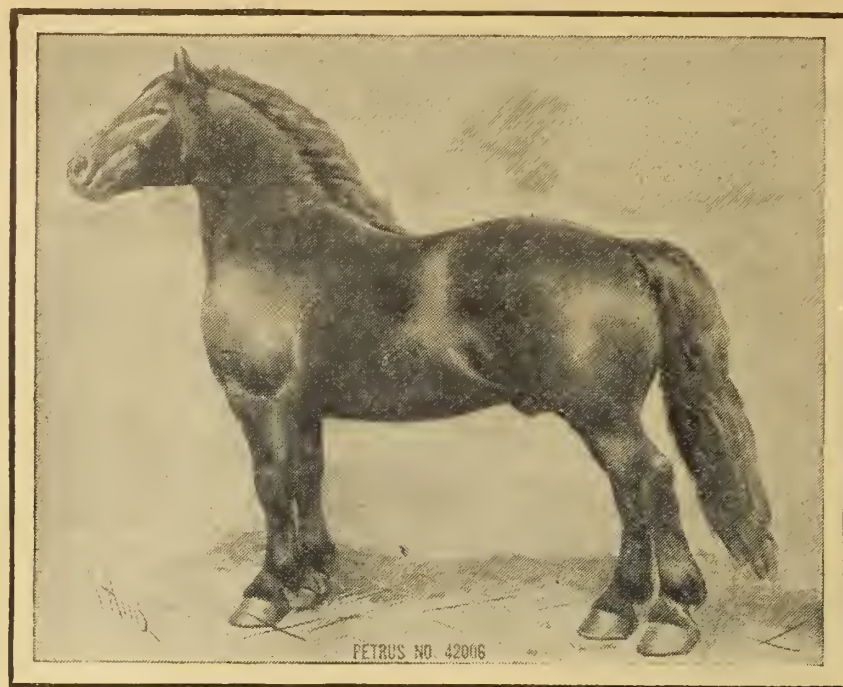
SCHOOLHOUSE SITE.

A Subscriber, Woodbine, Iowa.—I bought a farm of eighty acres and have a deed for it. The land was formerly owned by eastern parties and while they owned it the school authorities selected a schoolhouse site on the land and erected a schoolhouse thereon, without permission from the owners. The schoolhouse is still there and occupies the only desirable building site on my land, and I want it removed so that I can use the site myself. What legal proceedings are necessary to have it removed?

Answer.—If the ground has been occupied for a schoolhouse site for ten years, the school authorities can hold it basing their title on prescription. If it has not been occupied that long, you can recover it by an action of ejectment in the district court, unless it was condemned for school purposes by regular legal proceedings, before you bought it. The school authorities could condemn it even now, in which case you would have to be paid adequate damages.

VARIOUS SUBJECTS.

A Subscriber, Curlew, Iowa.—(1) A certain firm advertised articles for sale in a newspaper, stating the price. B sent the firm a postal money order for the price stated, but received nothing of value for the same. Is it the duty of the United States government to catch and punish such fakirs for defrauding persons through the mails? (2) Must a railroad right of way be used for the original road or can it be used for a branch road? (3) Can a railroad company sell its right of way to another railroad company? (4) Can a railroad company construct its road through land without paying for the right of way?



The stallion, Petrus, owned by Mr. A. R. Ives, of Delavan, Wis. This Badger breeder favors the black Percheron and breeds and imports many of the useful sort. See page 60.

(5) What compensation is a township clerk entitled to from the township money? (6) Are the bonds of township clerk and assessor binding after the terms of office have expired?

Answer.—(1) Not enough facts are stated to enable us to determine whether the firm has violated the postal laws or not. Lay all the facts before the United States District Attorney. (2) It may be used for either. (3) A railroad company can lawfully sell all its property, including its right of way, to another company. (4) It cannot lawfully do so. (5) Two per cent. (6) Bonds of such officers are meant to cover official conduct during the terms of office, but not afterwards. Suit may be brought on such bonds at any time within three years after the terms of office expire, for misconduct occurring within the official terms.

STRAW ON LEASED LAND—MINOR'S PROPERTY.

Mr. Wm. M. Miller, Montour, Iowa.—(1) A is a tenant who rented a farm for cash rent and agreed to not haul any straw off the place. He cut a second crop of clover and had it thrashed for the seed. After thrashing can he haul the chaff and straw of

it away from the farm? (2) B's son has a third interest in sixty acres of land, left to him by his mother at her death. The son refused to work for his father after he was fifteen years old and worked two years for himself and collected his own wages, and clothed himself. During the last season he worked for his father for wages as the same as a hired man. Is he lawfully entitled to the rent of his third interest in the sixty acres of land before he becomes of age?

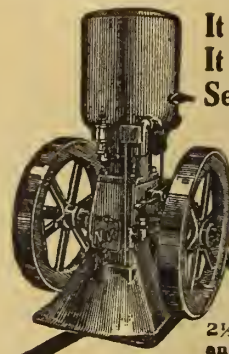
Answer.—(1) The tenant has no right to remove the chaff and straw from the farm. (2) One-third part of the rent of the sixty acres of land, belongs to the boy before he becomes of age, just the same as it does afterwards, but to collect it by law, he would probably have to have a guardian appointed for him, as a minor cannot sue except by guardian.

INSPECTION OF MOVER'S STOCK.

A Subscriber, Pocahontas, Iowa.—I wish to move from Iowa to South Dakota. Will I have to have my live stock inspected?

Answer.—All sheep unloaded from railroad cars in South Dakota must be inspected before leaving the railroad yards. As to other live stock the law of South Dakota provides that live

stock brought into the state from or through any state or territory against which the governor of South Dakota has issued a proclamation of quarantine, must be inspected upon arrival by the state veterinary surgeon or a deputy. The person in charge of such animals must without delay notify the state veterinary surgeon of their arrival. If therefore the governor of South Dakota has not issued any proclamation of quarantine against the state of Iowa, you can move all live stock except sheep to South Dakota without inspection. No inspection is required in Iowa in such a case.



It Pumps Water
It Saws Wood
Separates Cream
Grinds Feed
Sprays Trees
Washes
Churns

Does any such thing for you.

2 1/2, 3 1/2 and 5 H. P.

THE FARMER'S HELP

But there is something beside the right amount of horse power to look up in buying a gasoline engine. There are a number of very important improvements (not in other engines) which have been made in the

NOVO Gasoline Engines

For instance, you get all the advantages of a water cooled engine but don't have the nuisance of a separate tank.

The Novo is frost-proof—guaranteed against injury by freezing. Every working part of the engine is heavy, but by keeping unnecessary pig iron out of the base the Novo is lighter and easier to move.

The Novo always pulls more than promised. It picks up quickly under a load.

Send for the

NOVO BOOKLET

(it's free) and full of engine information

Hidreth Mfg. Co., 14 Willow Street, Lansing, Mich.



I CHALLENGE
THE
WORLD
ON
PRICE
AND
QUALITY

NEVER SINCE CHRISTOPHER COLUMBUS DISCOVERED AMERICA!!!

No sir, never before in all history were such standard, high quality, superior manure spreaders sold at such extremely low wholesale quantity prices. Better machines, mind you, in every way at only actual cost of material, labor and one very small profit based on these tremendous quantities: 30,000 Galloway Manure Spreaders for this year. Anybody might just as well have one of these machines when they can get in on a wholesale deal of this kind. Be your own dealer, buyer and agent.

My Proof On the Galloway Spreader is the O. K. of 40,000 farmers. And 60,000 on my other machines, making over 100,000 farmers who have O. K'd the Galloway Goods of all Kinds.

THINK OF IT!

98 per cent of all of my customers who buy once buy from me every year.

My business has grown from \$100,000 a year to millions of dollars annually.

Why does every farmer who buys a machine of any kind from us, sell from one to a dozen more to his neighbors? Why has Prof. Holden and the members of the Corn Growers' Association of Iowa, unsolicited, O. K'd and recommended our great proposition to the farmers of this country after personally looking it over?

Net Results are what count with you and every farmer in the corn crib, at the threshing machine, in the dairy, and at the bank.

Get your name in to me for just the size Galloway machine you want and I'll guarantee you'll be satisfied with the big net results your machine will give you.

Remember, I make a better manure spreader than any spreader made in the United States at any price, and sell it to you for a half less.

Get My Proposition First and I'll leave the rest entirely up to you. Send me your name now, and join our big crowd—over 100,000 strong—of satisfied customers, 98 per cent of whom stay right by us year in and year out, which is the real proof of my way of doing business—On the Square.

Why have imitators sprung up everywhere trying to copy our plan, some calling themselves manufacturers when they are not, trying to get business on our reputation and square-deal policy? Remember, I give you better goods, absolutely and positively, and sell them for a half less. Let you decide this question yourself. You are the sole judge, or money back.

Now don't start 1910 in without getting my proposition. You are not getting what you are entitled to and what is due you, if you don't get in on this bunch of factories in the United States today, right here at Waterloo, Iowa, in the interests of the Farmers of America.

You are not getting what you are entitled to and what is due you, if you don't get in on this bunch of factories in the United States today, right here at Waterloo, Iowa, in the interests of the Farmers of America.

Remember, you are to be the judge as to the quality and also that I am running the biggest bunch of factories in the United States today, right here at Waterloo, Iowa, in the interests of the Farmers of America.

You are not getting what you are entitled to and what is due you, if you don't get in on this bunch of factories in the United States today, right here at Waterloo, Iowa, in the interests of the Farmers of America.

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2 Big Books Free

—Explain why and how I let you try my spreader 12 months.

—If it is not a paying investment I'll give you back your money, with six per cent interest; you give me back my spreader.

1. Big Galloway Spreader Catalog—A Book of FACTS and most valuable money-making information you should have.

2. Big new "Net Results" Book—Very latest—farm paper size—nothing like it ever before. In colors. Actual photographs, not drawings. Proves every point. Shows spreading in snow to hubs. How to make a lot of money. Pay for spreader and have profits left 1st year. This I Absolutely Prove. Write me!

(Signed) William Galloway, President The William Galloway Company, of America
109 Galloway Station, Waterloo, Iowa

Caution! Look Out!

I just want to caution you at this point against dealers, agents and imitators who, on account of my tremendous success, say things that are absolutely false.

Some manufacturers who sell through dealers claim they are selling the Galloway under a different name. This is an absolute lie.

The Galloway machines of all kinds are sold no other way than direct.

Also look out for concerns who call themselves manufacturing companies who are not manufacturers at all. This I can prove, absolutely.

There are two different institutions of this kind advertising in the Farm Papers, who are nothing but supply houses and merchants.

Don't get fooled by them.

IMPORTANT: Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. Besides the Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader—Remember, also, the Galloway Cream Separator; also Gasoline Engine on same direct plan. If interested, ask for my Engine and Separator Catalogs—Free. Say which.



New Matchless Roller Feed makes light draft.

I save you one-half and give you better spreader.

Fits Any Truck.

Five Sizes

FREE Cut out this coupon and mail it to me now.
William Galloway Co., of America
109 Galloway Sta., Waterloo, Iowa

Here's my name and address—send me, FREE, your Big New 1910 Galloway Spreader Book and also Big Net Results Book—also Low Prices—30 days' Free Trial Offer and Special Proposition direct to me.

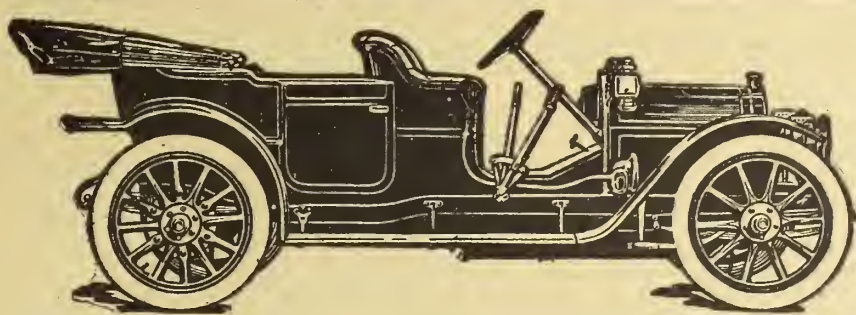
Name.....

Address.....

State..... R. F. D.....

Chalmers "30"
\$1500

- Touring Car
- Roadster
- Pony Tonneau (\$1600)
- Inside Drive Coupe (\$2100)
- Limousine (\$2750)



On the radiator

A Car Built and Tested for All Sorts of Roads

There's many a car that will make a pretty good showing on an asphalt pavement or a macadamized boulevard that is worse than a balky horse when it hits a bit of sandy road, sticky clay or deep ruts.

The demonstration of a car on city pavements doesn't mean anything to the farmer who wants a car to travel over all sorts of roads—who doesn't want to go the long way round to avoid a piece of bad going.

CHALMERS-DETROIT

"30" and "Forty"

are designed to "go in all kinds of going." Country roads look easy to a car that can blaze the way from Denver to the City of Mexico, and find a path across sandy prairie, rocks and mountains. This is what a Chalmers "30" did, and this same car had already driven 34,800 miles before it started on its pathfinding trip.

Some Chalmers Records

First and second in Jericho Sweepstakes, Long Island Motor Parkway, October 1908.

First in the Indiana Trophy race, June 1909, when Matson averaged 51.5 miles per hour for 232 miles.

First in the Santa Monica (California) 202 mile race, July 1909—world's speed record for light cars of 55.5 miles per hour.

First in National Light Stock car event at Lowell, Mass., September 1909.

In the Vanderbilt race, set a new world's light car speed record by averaging 58.5 miles an hour, winning the Massapequa Cup. Not once during the race did this car stop, and it defeated the nearest competitor by nineteen minutes.

Won the Detroit Trophy in 1909 Glidden tour—the longest, hardest touring contest ever held.

The Chalmers owner never fears muddy, rough, sandy or hilly roads—hot or cold weather—sleet or snow—the car gets there and gets back.

To prove its serviceability, its power and its speed, the Chalmers has been entered in a great many contests—races, hill climbing and endurance tests—in every case a *stock car* just the same as the one you would buy, and in two seasons Chalmers cars have won 89 firsts, 32 seconds and 21 thirds, most of them *road races on country roads*.

The Chalmers Cars, therefore, have proved, under the most trying tests, their all around serviceability—speed to beat 90 horse power giants, efficiency to win hill climbs, durability to win endurance tests.

The Chalmers Cars are "Cars for the Road."

Write for the new catalogue showing the various types of both the "30" and "Forty" in actual colors.

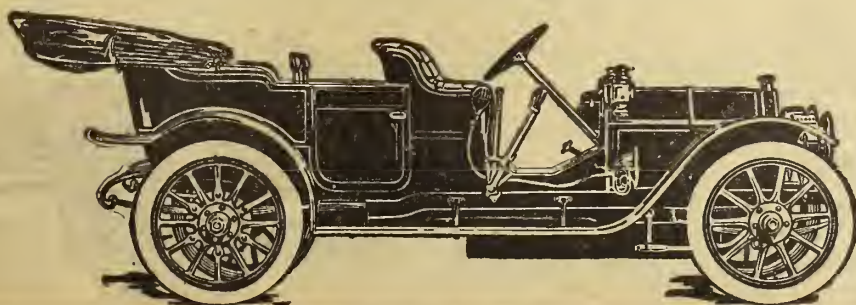
Send the coupon for a copy of our interesting book "Flag to Flag"—an illustrated story of the Denver to Mexico trip.

Chalmers Motor Company, Detroit, Michigan, U. S. A.

Licensed under Selden Patent

Chalmers
"Forty"
\$2750

- Touring Car
- Roadster
- Pony Tonneau



A Memo. to
Chalmers Motor Co., Detroit, Mich.
Please send me copy of "Flag to Flag" book, giving
the story of the Denver-Mexico City trip; also send your
catalog.

Name
Address
City
County State

Splendid Talking Machine Free

We send you this machine to your home for you to try, and then if you like it we give it to you absolutely FREE—make you a present of it.

This is the latest style high grade disc machine—and disc machines, as you are probably aware, are the best made. Disc records are the most durable—reproduce music the best. It is upon disc records that all the best Opera Singers, Musicians and the best artists record music, both vocal and instrumental.

After you have tried this machine in your own home and are satisfied that there is no better machine made for the reproduction of sound, at any price, we give you the machine absolutely without cost.

Wonderful Tone Arm and Sound Box

The essential point in a Talking Machine is its reproducing power. This is dependent largely on the Sound Box and Tone Arm. Imperial II has the latest improved Tapering Tone Arm, scientifically perfect and acoustically correct. The Sound Box is simple and perfect—a marvel of construction. An aluminum diaphragm, set in rubber gaskets and tested to a degree that insures it to be mechanically and musically correct. It is fitted with a beautifully finished flower horn.



Why Do We Give Away This \$25 Talking Machine?

It is because we are manufacturers of D & R Records (Double and Reversible). These Records have music on both sides. They are the full 10-inch size and we sell them at the same price you would have to pay for the old-style single records. This would make the music cost you about half the old price. We keep on hand always a stock of 500,000 records.

All you have to do to get one of these splendid talking machines is to agree to buy D & R Records. We send you the machine absolutely free and allow you to select a few records each month as you wish them, and pay for them as you receive them.

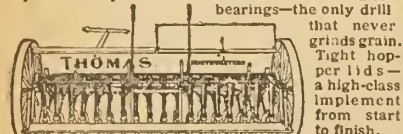
With any talking machine you must purchase records in order to use the machine. We are confident that our records will give such satisfaction that you will continue to buy them, as new pieces are issued every month.

Write today and we will send you a list of D & R Records and we will ship you the machine just as soon as you have selected such records as you wish sent with the machine. (6) D & R RECORD CO., 236 Ohio St., Chicago

This Drill Has 13 Exclusive Points!

Yes, Sir, 13 separate, superior points not found in any other drill! It's the biggest crop-petter and the easiest handled machine. Investigate the "Thomas" and decide to-day to get bigger and better crops. A postal brings complete book free.

The THOMAS is the drill with greatest clearance between discs—the only drill with the universal feed cup—the only drill with automatic oiler in disc bearings—the only drill that never grinds grain. Tight hopper lids—a high-class implement from start to finish.



With a THOMAS you can sow on any land anything from flaxseed to kidney beans—corn, wheat, oats, rye, barley, beans, flax, alfalfa, clover, etc. Don't even think of spending money for a drill until you have had complete information. Book, Terms, and prices on Thomas Drills.

Address postal to-night, please.

THE THOMAS MFG. CO., SPRINGFIELD, OHIO; OR, C. F. BARRUM, TRAVELER, HAWKEYE TRANCER CO., DES MOINES, IOWA. Thomas Drills are sold by Leading Dealers.

Larimer Ditching Plow



With subsoil attachment. If you have ditching to do, this plow will save you more money than any implement you have on your farm. Reduces cost of digging ditch from one-half to two-thirds. Send for descriptive circular.

LARIMER MFG. CO., EOLA, (near Chicago,) ILL.

DAY BY DAY

AGRICOLA

Something is out of gear. Agricola has received his package of congressional free seeds, and so have all his boys but one. Why was this one boy slighted? Now that feeds of all kinds are so high a teaspoonful of garden seed is prized by Biddy.

Children not only ask questions which stagger us to answer, but their reasoning is sometimes unanswerable. For instance, the little boy when reproved for telling untruths and reminded that the Bible says no liar can go to heaven replied that he did not want to go to that lonesome place where there were no human beings but George Washington.

The latest wrinkle is something that even a woman is never too old to acquire.

Two things are essential in education. The first thing is to learn to work intelligently, and the second is to learn to work cheerfully.

A neighbor who has for the past few years grown sugar beets to feed to his cows says that beets do not seem to make "much cream." He probably does not take account of the great proportion of water in sugar beets. One pound of grain is equal to eight or nine pounds of sugar beets in "fodder units."

It is announced that the Hill railroad system hauled last year 300,000 horses out of Montana for the eastern markets, and the price of horses is the highest on record. The automobile has not ruined the horse demand, my disquieted countrymen.

Every free country is necessarily controlled by a political party, and after the first epoch must have two parties because of the different temperaments of the inhabitants. There must be a conservative party to work for stability, and there must be a progressive party to work for change. When both parties become old and conservative a new party is needed to voice the sentiments of progressive citizens.

Corn and cob meal is good winter feed for horses; that is, the corn fed them can be fed in this shape with better results than to feed it in the ear or shelled. The cob part will be eaten clean and although with little nutriment it has a good effect mechanically. It is also good for calves and store hogs.

Many orchardists now cut off all the roots of apple trees to mere stubs before setting, and the hole is made just large enough to contain the roots and so it will go a little deeper than in the nursery. The dirt is packed very solid between and around the root stubs and new roots spring out and the tree establishes itself for a life work better, the advocates of this method claim, than when long roots are left on the tree. But, and this is vital, the top is cut back just as severely, and the new top grows stocky and strong.

Life has its bitter as well as its sweet; the trouble is that we are prone to brew the bitter internally instead of sweetness.

There are two kinds of wives: Those with henpecked husbands and those not henpecked. The former boss their husbands ostentatiously and the latter boss them so adroitly that their husbands do not know it. The sweet persuasiveness of woman is her "best holt."

Drainage is a good thing, a necessary thing in growing anything but aquatic plants, and it is just as true that air drainage is necessary to the health of apple trees. Choose a slope for the orchard.

The animal which takes first prize at shows is not always the best animal for breeding purposes, nor is the ear of corn that gets the first premium always the kind of corn you should grow on your own farm. But the




WHEAT GROWING

OUT IN THE UNION PACIFIC COUNTRY BEATS EASTERN TRUCK FARMING

The farmer here is a business man. He opens up the mellow plains of California with an eight-horse gang-plow that turns over a four-foot strip. Three men on a modern combined harvesting machine can handle 200 acres of wheat with perfect ease, and the crop is worth from 75 cents to a dollar a bushel right where it stands.

This blue-stem wheat is absolutely essential to perfect flour-blending and brings from 5 cents to 10 cents per bushel more than any other wheat.

200 acres yield 8,000 bushels at 40 bushels to the acre and means \$6,400 at 80 cents per bushel. A fair estimate of the total expense of harvesting is \$2.50 per acre, which totals \$500 on 200 acres, and leaves an income of \$5,900. Two hundred acres is considered a very small farm out here.

There's no denying that some eastern and mid-west truck farms yield heavily per acre, but even the best of them are dwarfed by comparison with the far-west wheat grower's returns. It is hard to find many truck farmers who can honestly say they get more than \$200 net income per acre after expenses and rent or taxes are paid. On this basis the far-western wheat grower beats him two to one. See this country yourself. Take

Union Pacific-Southern Pacific

"The Safe Road to Travel"

Electric Block Signals. Dining car meals and service "Best in the World." Low Colonist fares will be in effect March 1 to April 15, inclusive, 1910.

For literature and other information, address
E. L. LOMAX, General Passenger Agent
Union Pacific R. R., Omaha, Neb.

Pull Your Stumps

With This All-Steel Triple-Power

Hercules Stump Puller

30 Days' FREE TRIAL

No excuse for stumpy fields. This Hercules is now sold on 30 days' Free Trial. Test it on your place at our risk. Pulls stumps out, roots and all. 400% stronger than any other puller made. Triple power attachment means one-third greater pull. The only stump puller guaranteed for 3 years. Only one with Double Safety Ratcatchers. Only one with all bearings and working parts turned, finished and machined, reducing friction, increasing power, making it extremely light-running. Hitch on to any stump and the

STUMP IS BOUND TO COME

Also pulls largest-sized green trees, bedgerows, etc. Don't risk dangerous and costly dynamite. It only shatters stump and leaves roots in ground. Save big money; get our **FREE BOOKS** and free trial offer. Also special proposition to **first buyers** where we have no agents. Write us a postal card today. Address

HERCULES MANUFACTURING CO., 141 17th Street, CENTERVILLE, IOWA



2c and a Lauson "Frost King" Engine will Separate 800 Pounds of Milk.

Have you any means by which you could do it for that now? Lauson Engines are strongly and durably built of selected material and for convenience and economy are unexcelled. Remember, the Lauson is guaranteed not to freeze and it starts as easily as a watch. It has been in use in the United States and other countries in all climates for over twelve years. It requires no priming and will deliver a perfect gas to the engine by simply turning it through the suction stroke. Send us your dealer's name, state power required and get our new catalog and prices FREE.

The John Lauson Mfg. Co. 302 Northwest St. New Holstein, Wis.

"Frost King" 1, 2½, 4 and 5 H. P.



Lauson GASOLINE AND OIL ENGINES

ANTI-FRICTION, 4-BURR MILLS

DOUBLE THE CAPACITY OF GEARED MILLS

Two-horse mill has 24-in. grinding burrs (two set) all grinding at once, and grinds from 25 to 50 bu. per hour. Four horse mill grinds from 60 to 80 bu. per hour.

30,000 Bu. with one set of burrs.—1 have ground with one set of burrs, more than 30,000 bushels of corn with my Model No. 1 Mill, and the burrs are still in good condition.—F. F. Craig, Mt. Carroll, Ill.

Two complete mills in one; has double the capacity and double the durability. Absolutely no "friction or gearing." Will earn cost price in three days. The largest ears of corn to these mills are like popcorn to other mills. We manufacture the most durable and fastest grinding line of mills sold, including our Famous Iowa No. 2 for \$12.50. Send for our free catalog.

BOVEE GRINDER & FURNACE WORKS, 100 8th Street, WATERLOO, IOWA.

prize animal and the prize corn have educational values.

Some of my neighbors have for the past few years cut up their cornstalks after the ears were husked from the hill. It looked to me like trying to make feed of waste material, which is all right provided it makes good feed, but this seemed improbable if not impossible. But as they kept doing so I tried the plan last fall.

I am surprised and gratified with the results. The fodder was stored under shelter before the snow came, and now it is run through a small shredder and fed to young stock. It it eaten up clean, even the coarse stalks make good corn hay and are licked up clean. My only regret is that there was not five times as much of this fodder saved.

Good records for political parties are like good records for a cow. We all honor and reverence the man, association, party, or animal with a noble record, but we need something more than past records for present-day use.

A young couple commencing house-keeping decided to buy a cow. It was the wife who suggested it, and the husband made a deal with a stock buyer to find him one with a good record. He did so and furnished an old canner that had been dry for years. "But John, you stupid man, we need a fresh cow, not a dried up old canner with a glorious record for past performances." Does Uncle Sam need a fresh cow?

The new style cutters furnished with springs like a buggy are giving good satisfaction now that the roads are full of bump holes and riding over them is like a ride on an "ocean wave" merry-go-round. For the smaller pitch holes are taken with ease and comfort, and only the deep valleys make slowing up necessary.

Before retiring from the farm and moving to town tell the good wife how you appreciate her and the home she has made for you.

THE RENTING OF LAND.

To the Editor of The Homestead:

In a recent issue of your paper I noticed some articles on the subject, "Fortune and Ill-fortune of Renters," and should like to express my opinion on the subject.

The situation between the land owner and the renter is in many instances spoiled right at the beginning and prevented from being what it really should be. When a land owner and a renter enter into a contract they really go into partnership for the coming year and each one ought to work for the interests of both. Instead of doing this, a land owner frequently spoils his chance on the start. As renters in most of the sections are plentiful they will often overbid each other and offer a larger per cent as rent in order to have a home for the coming year. They do not stop to consider whether they can really pay such rent as agreed upon and have their own expense and a fair living left. As a rule they are bound under a written contract, with every little item specified, in short, they are tied hand and foot. During the season the renter often begins to realize that it is impossible to truly live up to his contract and come out with a living and something for his work, and he at once makes up his mind that he cannot stay on that place any longer than the term specified in the contract. He then gets careless and neither does justice to himself nor to the land owner, and as a consequence they both suffer a real loss. I know of cases where two-fifths grain rent was not as much as one-third would have been under normal conditions. There is no gain made in this way, but is, if anything, a loss to the farming interests in general.

In my estimation a good plan would be for every land owner who rents land out, to consider very carefully before he rents the land, just how much the renter can honestly pay and still make a fair living and have something left. He should meet the renter half way and by so doing will

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BEAR RIVER VALLEY

We are selling lands in this beautiful section of Southern Idaho at from \$15 to \$30 an acre. This is one of the great land opportunities, as the soil of Bear River Valley has already broken several records in size of yield. We want to show you this land. Please ask us for railroad rates and complete information. Representatives of our company will be at the Chamberlain Hotel, Des Moines, Iowa, and the Merchants Hotel, Omaha, about three days before Homeseekers' excursion dates which are the first and third Tuesdays of each month.

BEAR RIVER VALLEY LAND CO.,
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YOU WANT To buy land in a new country, where the soil is productive; where there is a strong local demand for farm produce, and local prices are therefore high and steady; where the climate is of the best, and where land values are rising. You can thus gain a profit, both from your labor and from your investment. We can supply your want, in either large or small tracts, at rock-bottom prices. Raw lands, improved ranches, either improved or unimproved; also a few homestead and "desert land" locations. Write us, stating what sort of property will suit you, and we will give you prices and full particulars. **FITCH & QUAINANCE, LARAMIE, WYOMING.**

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with some timber. Best location in Canada for grain and cattle. Good climate. A PROVEN COUNTRY, with railroads, civilization and good markets. This is the place to make money. Come and see for yourself the fine weather, tall grass, big crops. Easy terms. Cheap excursions. Our map and folder explain Canadian conditions with absolute truthfulness. Write **SCAND.-CANADIAN LAND CO., 173 Washington St., CHICAGO.**

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THE 1910 EDITION IS NOW READY.
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It tells you how to secure a home or to make a profitable investment; tells of the great crops, low prices, easy terms; of the many reasons why you should investigate NOW, before it is too late. Our private car, the "IENZA," goes the 1st and 3d Tuesdays each month. We save you money on Fares, Meals and Berths. Write today for our free "Guide." Don't put it off. Address our Main Office, 240 Germania Life Building, St. Paul, Minnesota.

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find that the renter will think more of him, work harder for his interests and do his best in order that he may stay on the farm as long as possible. It would also be well to offer a reasonable premium in case he succeeds, in raising a crop a little better than his neighbor. If you have more than one renter, give the one who will average the best corn \$100, the second best \$50, and regulate the premiums according to the size of farms and crops raised. You will be surprised how they will dig in and try to get the prize, and it is not only the premium they are after, but the honor besides. You will all gain by it and so will the country as a whole.

In regard to whether it is better to rent than to buy, I say no, unless a man has not sufficient means to buy and would have to go in debt and thus run the chance of losing what he has. But if he has the means, even if it is only a small farm, there is no place like a home of your own. It is worth more to me than any rented place would be, even if I could make more dollars thereon.

A. Roesler.
Kearney county, Neb.

PROFIT IN CROP ROTATION.

Farmers in lower Delaware are greatly interested in an experiment just concluded by Capt. William E. Lank, who has thoroughly proven the advantage of the rotation of crops on a four-acre field. Last spring he manured the four acres, which had been in corn the previous year. The manure was plowed under, the ground well harrowed and peas drilled in. The crop grew well, and in June the peas were sold at a net profit of \$92.

As soon as the peas were removed plows again turned the soil over and it was planted with corn. From this a fine crop of fodder was saved, and recently the corn itself was husked, yielding a net profit of \$65. The ground now has a fine set of scarlet clover on it, the seed having been sown at the last harrowing of the corn, with every indication of \$40 worth of clover hay in the spring and a constant improvement to the land.

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A few splendid improved farms at bargain prices. Communicate immediately. Farm will pay for itself in four or five years. Address

HON. W. H. MONTAGUE,
Late Minister of Agriculture for Canada.
317 Portage Ave., Winnipeg, Man., Canada.

Free Trip To Colorado

**THE LAND OF SUNSHINE
WHERE APPLE IS KING**

DELTA COUNTY shipped more fruit than any other county in the United States in 1909. Now is the time to buy an apple orchard on monthly payments, insuring an income for life. Full particulars about free trip will be sent to any interested person on receipt of coupon filled out.

THE GRAND VIEW MESA LAND AND ORCHARD CO.,
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Gentlemen: Kindly forward me particulars, about free trip to Colorado, where Apple is King.
Name
P. O. State

WRITE FOR ILLUSTRATED BOOK ABOUT COLORADO

Fruit, Garden and Poultry Tracts adjoining Denver, under the Antero Irrigation system. The best, surest and safest investment on the market. Denver is the best market in the world.

5, 10 AND 20-ACRE TRACTS.
SOLD ON THE EASY PAYMENT PLAN

Will pay for themselves in a few years. \$300,000 worth sold in the past six months. We give you the names of 100 who have bought, for reference. Endorsed by the Governor. Refer to local banks. **ALTURA FARMS, 210 Ideal Building, DENVER, COLORADO.**

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OUR 1909 new illustrated catalog of improved farms in Iowa and other states is ready. Be sure to send for it if you want to buy or exchange for land. Also have some good income and other property for sale and exchange.

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Independence, Iowa.

IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advance so rapidly in price. Illustrated literature. Write today. **Engene T. Thomson, Crawford Block, Sedalia, Missouri.**

IRRIGATED LANDS In Colorado, under perfect ditch system. Unsurpassed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R. R. Superior local and foreign market. In tracts from 5 to 1,000 acres, at \$100 and up. **OLDWAY LAND CO., OLDWAY, COLO.**

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SALE of Indians' SURPLUS lands, good as the best in Illinois, \$20 to \$60 per acre. February list now ready. Address **EDWARDS & MOORE,** 312 W. Main St., Oklahoma City, Oklahoma

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AT \$50 per acre, produce as much as Illinois land at \$200 per acre, or four times as much on investment. Write us your wants. We can supply you. **WRIGHT FIELD INVESTMENT CO.,** 843 N. Y. Life Building, Kansas City, Mo.

STOCK FARM FOR SALE CHEAP 221 Acres; good house, barn and other buildings, orchard, grove, best of water, well fenced, R. F. D. mail; telephone. Location, East Central Kansas. Price right. Terms to suit. Address owner; **M. B. Hubbard, Idaho, Clay County, Kansas.**

WESTERN CANADA

What Governor Deneen, of Illinois, Says About It:

Governor Deneen, of Illinois, owns a section of land in Saskatchewan, Canada. He has said in an interview:

"As an American I am delighted to see the remarkable progress of Western Canada. Our people are flocking across the boundary in thousands, and I have not yet met one who admitted he had made a mistake. They are all doing well. There is scarcely a community in the Middle or Western States that has not a representative in Manitoba, Saskatchewan or Alberta."

125 Million Bushels of Wheat in 1909

Western Canada field crops for 1909 will easily bring \$170,000,000.00 in cash. Free Homesteads of 160 acres, and pre-emption of 160 acres at \$3.00 an acre. Railway and Land Companies have land for sale at reasonable prices. Many farmers have paid for their land out of the proceeds of one crop. Splendid climate, good schools, excellent railway accommodation, low freight rates, wood, water and lumber easily obtainable.

For pamphlet "Last Best West," particulars as to suitable location and low settlers' rate, apply to Sup't of Immigration, Ottawa, Can., or to the Canadian Government Agent. (5)

W. V. Bennett, Bee Building, Omaha, Nebraska, or **E. T. Holmes,** 315 Jackson St., St. Paul, Minn.

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GRUNDY COUNTY, MO.

Corn, Wheat, Clover and Alfalfa Lands

HIGHLY improved farms of 80 acres up. Good roads, good schools, good markets. All kinds of fruits, natural groves, mild climate. Many Iowa farmers here, all prosperous. Most natural dairy country in U. S. Taxes very low. Easy terms. Low rate of interest. Small cash payments required. Write me, stating about what you want.

H. J. HUGHES, 317 WATER ST., TRENTON, MISSOURI.



Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana In Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit; truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops. **NO IRRIGATION SCHEME**, 60 inches annual rain fall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. **J. D. LEBRIE, Gen'l Land Agent Pinefield Mfg. Co.,** 533 Keith & Perry Bldg., Kansas City, Mo.

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In the famous Arkansas Valley, Colorado. Our irrigation system is one of the best, and our land as fertile as any in Colorado. A reasonable number of tracts now offered at \$30 per acre, with perpetual water right, on terms without interest. This land will quadruple in value within a few years. Close to R. R. and markets. Your railroad fare refunded if you buy. Write for map and booklet. Agts. wanted.

MONSON & MALCOLM REALTY CO.,
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MUST BE SOLD AT ONCE

ONE of the best breeding ranches in the United States. 900 acres, 450 acres in alfalfa, in Republican valley, Neb., 4 miles from city of 5,000. Two good residences, breeding barns, elevator, with engine and complete grinding equipment. \$60 per acre, terms to suit. A prize-winning herd of Herefords can be purchased if desired. Owner wishes to retire. Don't write unless you mean business. 219 Main Ave. Bell phone 326. **E. J. Mitchell, McCook, Neb.**

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also ¼ section wild, \$25. **B. J. McMahon, Endicott, St. Paul, Minn.**

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SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address **The Allen Co. Investment Co., Longton, Kan.**

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

YOUNG'S "UNO" HORSE COLLARS



"UNO" collars have a heavy facing of Young's Uno self-conforming mixture (a yielding, pliable facing that fits itself to the shoulder), backed by selected long rye straw—have double strength throats giving double strength where common collars are weak—heavy, smooth sole leather tops—solid serviceable rims—all parts made of pure bark tanned leather cut from best part of the hide—all shapes and sizes, \$3.75 to \$5.00 each.

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Send us the name of a harness dealer who does not handle "UNO" Horse Collars, and we will send you a beautiful pair of Nickel Embossed Bridle Rosettes FREE.
Our booklet, "Horse Collar Sense," gives you some valuable pointers on how to judge and buy horse collars. Free on request.

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Prof. Jesse Beery, King of Horse Tamers and Trainers, has retired from the Arena and will teach his wonderful system to a limited number, by mail. **\$1200 to \$3000 a Year At Home or Traveling**

Prof. Jesse Beery is acknowledged to be the world's master horseman. His exhibitions of taming man-killing horses, and conquering horses of all dispositions have thrilled vast audiences everywhere.
He is now teaching his marvellously successful methods to others. His system of Horse Training and Colt Breaking opens up a most attractive money-making field to the man who masters its simple principles.
Competent Horse Trainers are in demand everywhere. People gladly pay \$15 to \$25 a head to have horses tamed, trained, cured of habits to have colts broken to harness. A good trainer can always keep his stable full of horses.
If you love travel, here is a chance to see the world, giving exhibitions and making large profits. You will be surprised to learn how little it costs to get into the Horse-Training profession.
Write and Prof. Beery will send you full particulars and handsome book about horses—FREE. Address Prof. Jesse Beery, Box 54, Pleasant Hill, Ohio

"SAVE THE HORSE" SPAVIN CURE.
REG. TRADE MARK
Don't forget, Mr. Man, no matter what your case is, an investment in "Save The Horse" means a cure. You simply cannot lose if you go at it right. **OUR CONTRACT PROTECTS YOU.**
Sims & Son, Tailors, Richmond, Va., Nov. 20, 1909.
TROY CHEMICAL CO., Binghamton, N. Y.: I used "Save The Horse" as you directed on the place where the horse was kicked and he recovered entirely from lameness. A week afterward he went lame in hind leg, and he was very lame. I had a doctor examine him and he said he had a hind leg. As I had some "Save The Horse" left he advised me to use it, which I did, and he is perfectly sound. This jack came on the leg that was sound, for, if you remember, he had a bone spavin on the other leg some time ago. I have had tough luck with this horse, but your remedy has always given him a cure. I thank you for your kindness, always willing to give advice, and I shall always recommend "Save The Horse" highly. **NATHAN SIMON.**
TROY CHEMICAL CO., Binghamton, N. Y.: I have a horse, and I have faith that "Save The Horse" will do as you say, because I have seen four cures, one dog spavin, and one enlarged tendon cured by it for other people. Please let me hear from you regarding a bottle. Very resp., A. H. STAPLES, D.D.S.
\$5.00 a bottle, with signed guarantee or contract. Send for a copy, booklet and letters from business men and trainers on every kind of case. Permanently cures Spavin, Thoroughpin, Ringbone (except low), Crab, Splint, Capped Hock, Windpuff, Shave Bole, Injured Tendons & all Lameness. No scar or loss of hair. Horse works as usual. Dealers or Exp. paid. TROY CHEMICAL CO., 3 Commercial Ave., Binghamton, N.Y.



WANTED--Farmer or Farmer's Son
With rig in every county to introduce and sell family and veterinary remedies, extracts, etc. Fine pay. We mean business. We want salesmen in all states. Write us. **SHORES FARM REMEDY CO., TRIPOLI, IOWA.**

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MADISON, WIS.
Veterinary Editor The Homestead.
Consulting Veterinarian. Advice and prescription by mail, \$1.00

VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

HORSE AFRAID OF WATER.

Can you tell me what is wrong with my horse? He is black and fifteen years old. Every time he drinks water or attempts to drink he will walk off and lick dirt in summer and snow in winter. He will drink only about every other day. I have had his teeth and mouth fixed up by a very competent veterinarian since he began to refuse to drink. The horse has been acting about the same for two years and doesn't seem to be any the worse for it except perhaps a slight falling off in flesh in warm weather. He gets salt regularly and always has freshly-pumped and very good water. I have never done anything for him except to fix up his mouth.

The case is an unusual one and we would suspect a diseased molar tooth which aches when the horse drinks cold water. Try lukewarm water. If he will not take that, feed roots as a part of the ration and also allow a bran mash daily after gradually accustoming him to such food.

TETANUS.

I have a big mare that was all right until one morning she came up from the field with the other horses and I put them in the corral and fed them with good timothy hay. She took a big bite and tried to chew it, but couldn't make her jaws move. This made her mad and she ran around there trying to eat, but couldn't. She had eaten all right the night before and seemed to be all right in the morning; her eyes were as bright as before and she didn't seem to have any fever or pain to speak of. We had the veterinarian come and see her and he didn't know what was the matter. He gave me some salve to put on her jaws. He thought it was a little sore throat. He looked at her teeth, but couldn't find anything the matter with them, so he told me to feed her with bran with eggs in it. Three days after she began to eat a little of the hay, but she couldn't chew it all; she spit out about half of it. Please let me know if this is a disease that will spread to the other horses and if it can be prevented from doing so. The mare is young, about seven years old and in good shape; is a splendid horse weighing about 1,200 pounds.

Tetanus (lockjaw) from infection of a wound by the bacillus of the disease is to be suspected and it will not spread to the other horses. Put the mare in a secluded box stall and feed her soft, easily masticated food or gruels and in time she may recover without medicine.

COUGH.

I have on feed one car load of hogs that will weigh about 170 pounds. The last few days several of them have been coughing and all that are coughing are off their feed. Now the hogs are on a cement floor with bedding. Perhaps some of your readers can tell me what to do in this case. The cough is like that of a child with the whooping cough.

Cough is merely a symptom of disease and may be due to any one of a large number of different troubles. It is present in cholera and swine plague. Often it is due to lung worms, or it may come from quinsy, catarrh, cold or lung ailments induced by damp, dust or bad gases in stable. Keep them off cement floor. Have them exercise every day. Prevent dust and keep them out of damp beds. Feed slop in addition to corn. We are unable to prescribe medicine, as we cannot say to what the cough is due.

GARGET.

I bought a cow a year ago the last week in December and drove her home slowly, a distance of about six miles. The 16th of January she dropped a fine male calf. This cow has a very large udder which was swollen tight and caked, the right front teat being caked the worst. The caking was high up on the upper part of the udder and red looking. This cow has before this given six gallons of milk a day. After the calf sucked she hardly gave two gallons and has gradually given less until finally, early in the fall she went dry. About the middle of the summer while out in the pasture with other stock she got kicked by a colt, as we supposed. She was all right at noon and in the evening we found her so lame she could only walk a short distance and then would have to lie down to rest. There were no particular marks on her leg. It was her left hind hip. I rubbed liniment on it and bathed it with cloths wrung out of hot water. She got a good deal better, but walks lame. Her udder got better we thought at that time. Could it be that what ailed the udder went to her hip, instead of her being kicked as we supposed? On the 23d of last month she dropped a heifer calf and her udder is not the same way it was the other time. We milk and then bathe her udder in this milk and also grease it well with fresh lard. Will this do her any good? Her calf is all right. The cow is in very good flesh, eats well and there is nothing wrong with her except this. She has been fed eight to ten nubbins of good corn twice a day, all the good hay she could

eat and has been kept in the stable. Now she gets thirteen nubbins of corn twice a day and at all times has what water she wants. She is a light red cow with white spots, six years old now and this is her fourth calf. She is a large cow and a beauty to look at. Can you tell me anything that will cure this cow and bring her to her milk?

She has chronic mammitis (garget) and this will prove incurable. It does not pay to fuss with a case of this sort, as the cow will give trouble each time she comes in fresh. Better fatten her for slaughter. We do not think there is any connection between the lameness and the condition of the udder. Foment the udder with hot water twice a day and then rub thoroughly with camphorated oil.

LAMENESS.

I have a big sandy brown driving horse, weight 1,150 pounds, that sprained or ruptured the leaders in his left hind leg. It was done about a year ago and he seemed to be pretty near well last spring. I gave him a pretty hard drive and he got just as bad as ever. I took him to the veterinarian a couple of weeks after and he fired it. He was afraid he would spoil the other leg by standing on it so long. He got along pretty well after that until one day he jerked loose from me and ran all over the pasture. He is just about all right now; when I lead him around the yard he doesn't limp much, but when I hitch him up to the buggy he favors it a good deal. It is swollen from about four or five inches above the ankle down to the hoof. I have been bathing it with salt and vinegar and bandaging it. That takes the swelling down some, but when I quit using it it swells up again. I ride him about half a mile every day for exercise and have blistered it several times with Absorbine and some medicine that I got from the veterinarian. What can I get to take the swelling out of his leg and do you think he will get entirely over it?

Do not ride the horse. Put him in a box stall and keep cold, wet bandages on the leg. He should get over the lameness in time if the firing and blistering were thoroughly done.

Corn stover makes good feed for stock, but digging it out of the snow and then shaking the snow out of the stover is rather disagreeable work. This is another place where the silo man has the advantage.



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Coughs, Distemper, Indigestion
Guaranteed or Money Refunded
NEWTON'S



The Standard Veterinary Remedy
Makes the Horse Strong and Willing to Work.
CURES HEAVES BY CORRECTING THE CAUSE
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A GRAND CONDITIONER AND WORM EXPELLER
\$1 a can at dealers or express prepaid.
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and losing dollars. Night and day they eat, EAT, EAT your profits. They cause disease and often death to stock, also seriously retard growth—all at your expense. Get rid of them completely, quickly with **Morris' English Worm Powder**.
Morris' English Worm Powder, the old reliable worm remedy. Tones the system, puts vim in the blood—makes horses, sheep and hogs look better—thrive better and keep healthier. No drenching—simply add to feed. Try it. 50c at druggists or sent prepaid.
WELLS MEDICINE COMPANY,
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LAME HORSES

quickly and positively cured of Sprains, Ringbone, Curbs, Shoe Bolls, Capped Hocks, abnormal growths and all lameness, with **REMOV-ALL**.
Sold on money-back guarantee. Leaves horses sound and unscathed. Lump Jaw is cured in less than three weeks with **Adams Rapid Lump-Jaw Cure**. Easy to use. Guaranteed. Write for FREE TREATISE on curing these diseases.
H. C. ADAMS MFG. CO.
Dept. 14, Algona, Iowa

"Cow Troubles"

Is the title of our Book G-A that is sent free, telling how to relieve Caked Bag, Sore or Injured Teats, Spider in Teat, Cow Pox, Udder Inflammation, and prevent Heifers from becoming hard milkers with **"Cows Relief"**

\$1.00 per Box
Delivered, or at Dealers'

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MILK FEVER OUTFITS Dehorners Teat Splinters, Slitters, Dilators, etc. Received only Award World's Fairs, Chicago, St. Louis. Write for illustrated catalog. **Hausmann & Dunn Co.,**
392 South Clark St., Chicago, Ill.

Horse Secrets Disclosed

THE "Gyp" horse-trader is abroad in the land. Up his sleeve are countless tricks and dodges to deceive and defraud honest horse-buyers.

It is an easy thing for him to take a horse which is a chronic "cribber" or permanently lame, or wasted to a shadow—"dead on his feet"—and transform him, for a very brief time, into an animal apparently without a bad habit, plump, young, "gingery" and sound.

There is only one way to beat a dishonest trader at his own game; that is, to know the game—how to detect it.

We have prepared a book on "Horse Secrets," which reveals these "tricks of the trade"—tells how they may be instantly detected. It explains methods used by unscrupulous dealers in "shutting a 'heaver,'" "plugging a 'roarer,'" disguising lameness, broken wind, weak eyes, glanders, spavin, etc. Tells how artificial plumpness is produced—even an artificial tail sometimes tacked on—and how, by the trick of "blushing," the teeth of a horse are changed to make him look young.
Besides exposing these dishonest methods, "Horse Secrets" gives valuable pointers on how to raise, feed and fatten your horses; how to treat their ills and break them of bad habits—how to cure a "cribber," "kicker," tail-switcher, halter-puller. It gives the secret of silage feeding and of quickly fattening your drafters for top market prices.

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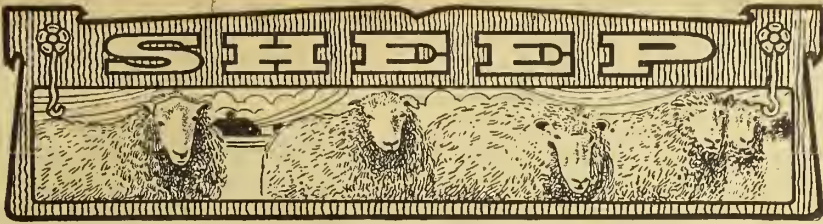
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We Pay the Freight



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

CHEVIOT SOCIETY PROSPERS.

The last annual meeting of the American Cheviot Sheep Society was held in Fayetteville, New York, a short time ago. The reports made by the various officers and committees revealed satisfactory interest and activity in the breed. The secretary reported that more new members had been voted in than during any previous year in the history of the organization. This excerpt from his annual statement will interest all sheepmen who are following the advancement and improvement of the various breeds:

The number of Cheviots shown at the fairs has been materially increased over last year and more fairs have made classes for the breed. In accordance with the policy adopted at the last meeting, more printed matter has been sent out and the breeders have taken more interest in advertising. The adoption of the new standard has been of material advantage and the quality of the sheep shown has helped to awaken an interest in Cheviots among sheep breeders.

The demand for Cheviots is good and breeders who are advertising are getting the best of results and report their surplus all sold. Still our breed needs more advertising, but with the limited number of registrations, we can do no more than keep our flock book published. If each breeder of Cheviots would promptly register all his lambs that are worthy each season, and see to it that no unregistered Cheviots are allowed to win prizes at fairs, we could soon put the breed into the position that it should naturally occupy.

We shall have to issue another volume of the flock book soon after the annual meeting and I would urge all members to send in their applications for registry at once. The society is in a good financial condition and its obligations are all met promptly as due.

The officers for 1910 are: President, George W. Parnell, Wingate, Ind.; vice-president, B. W. Brace, Albion, N. Y.; secretary and treasurer, F. E. Dawley, Fayetteville, N. Y.; executive committee, B. H. Sheldon, West Oneonta, N. Y.; S. E. Lantz, Carlock, Ill.; John A. Curry, Hartwick, N. Y.

THE DISOWNED LAMB.

To the Editor of The Homestead:

It sometimes happens, especially with young ewes, that the maternal instinct is not developed and they not only refuse to own their lamb, but often manifest repugnance toward it. Then is the time for the shepherd to cultivate the virtue of patience.

The ewe and lamb should be shut up together in a small pen, out of sight of the flock. She will at first have to be held for the lamb to suck, but as the little fellow grows stronger he will usually help himself if the ewe is driven into a corner. I have sometimes used a little switch on the ewe's nose to hold her in awe, and this does me good, too, when the stock of patience is about exhausted.

Sometimes when there is trouble at birth and the lamb has to be taken away, the ewe will walk off and pay no attention to it, but confinement with it a few days usually solves the difficulty. About the most

hopeless case is where one of a pair of twins is disowned. I have sometimes succeeded by shutting the ewe up with her disowned lamb and only letting the favorite in long enough to get the necessary nourishment.

I usually try to keep the disowned one till some other ewe loses her lamb, when I give her this one, and I find it much easier to make a foster mother of some other ewe than to make the unnatural mother assume the proper maternal relation. I have sometimes had an ewe hold out for three weeks, but if they give plenty of milk, it is only a question of time and patience and I have never yet failed.

W. H. Underwood.

THE CARE OF SHEEP IN WINTER.

To the Editor of The Homestead:

No farmer can afford to permit his sheep to run out in the blizzards of winter and get their living at the straw rick, in the stalk field, or the scant pasture. He will find that his losses are greater than his profits at the end of the year if he pursues this plan. While sheep may have good coats of wool, their flesh is tender and they are unable to endure the rigors of cold winters without having proper shelter. A farmer better improvise a shelter at the straw rick or on the south side of some building rather than let his sheep run loose during the cold winter.

Not long ago I saw what I considered to be an ideal sheep barn. The enclosure was all under one roof. There was the main auditorium where the herd sheltered at night and during the stormy days. At one end were the feed troughs and in the center of the auditorium a place for the hay. Around three sides were small box stalls with gates or doors leading into them. If a sheep was sick or a ewe ready to lamb she was put into one of these stalls to herself and given special attention. Needless to say, the owner smiled when you asked him about the profitableness of his flock, and was glad to tell you that he made more than \$5 a head clear money from his sheep each year. Clover, hay, oats, corn and bran were the main ration for the flock. By taking good care of his sheep from year to year they had taken good care of him.

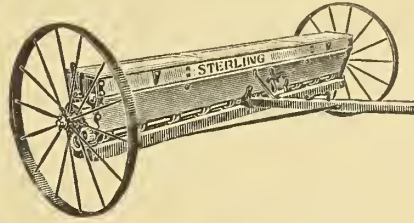
W. D. Neale.

FIFTY YEARS OF SHEEP RAISING.

To the Editor of The Homestead:

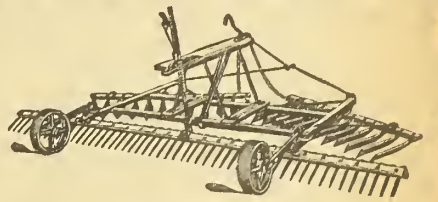
I bought my first flock of sheep in 1858, but when I enlisted in 1862 I sold my sheep—some 250 head. Then in 1863, when I left the army, I went to Ohio and paid \$2,000 for a flock of fifty Black Merinos and after some ten years changed to mutton breeds, mostly Oxford Downs, and we have had sheep on the Willowedge Farm ever since, until last year. Were I not so old I should stock up again with sheep. I shall soon be eighty-

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Extra Good Ones--
"STERLINGS"



seven years old, most too old to commence life over again. There is no better stock for the corn-belt farmer to raise than sheep.

I have one pasture where my sheep have mostly run with quite a large herd of Short-horns, some 180 acres, where scarcely a weed can be found. Other pastures where sheep have not run, right alongside of the first named pasture, where rag and other obnoxious weeds have nearly taken full possession of the ground. I am aware that many a man who claims to be a good farmer has no business with sheep. He needs to be a sheepman and can be if he will only "study sheep." From a boy on my father's farm in New Hampshire I have had to do with sheep and I like them and think nothing for the amount of money invested is more profitable on a farm. The chance to have mutton and lamb on the farmer's table is of incalculable importance, taste and health considered.

L. S. Coffin.

Iowa.

DEHORNING GOATS.

To the Editor of The Homestead:

I see that one of your subscribers wants to know if goats can be dehorned the same as cattle. I have had a large experience in dehorning goats and handling same. Dehorn goats same as cattle only just saw close to the hide, that is, don't take any hide with the horn. Use a good, sharp, fine saw and saw off. They will never miss feed if the work is done properly. Do not dehorn in zero weather or in fly time.

S. S. McKibben.

Dallas county, Iowa.

A man cannot farm with a lot of old junk for machinery and do good work. It is expensive to try it, for enough is soon lost in poor quality of work done to pay for a good machine. A poor planter and poor cultivator are two inferiors to be shunned, but when he has both, he has his crop cut in two at the start, just on their account.

Harrow While You Plow

—and get 50 per cent better crops at half the cost. The Racine Rotary Harrow Attachment follows the furrow and cuts, packs and smooths the soil, making perfect seed-bed. Illustrated booklet—sent free—tells all facts about this big labor-saver. Write today.

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GOOD POSITIONS OPEN

THE business of the Brotherhood of American Yeomen is growing by leaps and bounds. It is the most popular fraternal insurance society in the United States. We need more deputies to institute new lodges. We admit men and women; have over 116,000 members and assets aggregating \$1,300,000.00. It's a good Society to work for and it's a good Society to belong to. If you can devote several months to the work of getting new members write to

WILLIAM KOCH, Grand Foreman,
Yeomen Building Des Moines, Iowa.

SHEEP.



SHROPSHIRE EWES

BUYING registered bred ewes pays if you get the largest and most typical, which raise rams good enough to build a trade. We offer young bred ewes that will make you money. Photos and full description. Won champion ewe, champion flock, recent Chicago International. Near Des Moines.

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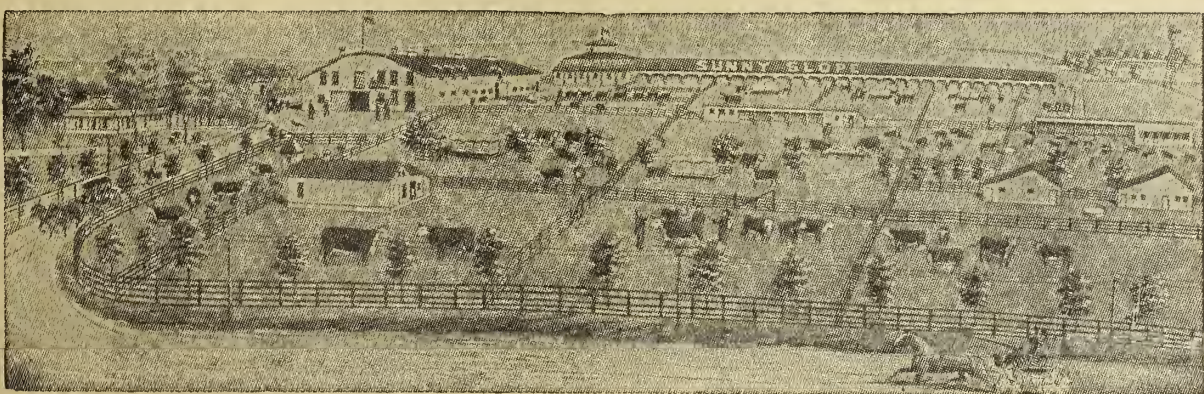
DEPARTMENT OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.

Pine Ridge Shropshires One thousand ewes bred to the very best imported rams money could buy. These rams are prize winners, personally selected from the best English flocks last July. Prices reasonable. Write for free booklet, "Hints on Sheep Raising." Address owner, **L. M. Hartley, Pine Ridge Farm, Salem, Ind.**

HOME OF THE OXFORD DOWNS. Flock in its forty-eighth year, and finds the Oxford to be the money makers in the sheep family. Both sexes for sale. **T. B. Evans, Geneva, Illinois.**

Registered Shropshire Rams and Ewes For Sale. The best of breeding and quality. Best imported rams at head of flock. **Willard Miller, Anita, Iowa.**

CLOSING OUT SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. **W. C. Frazier, Atlantic, Cass Co., Iowa.**



Sunny Slope Farm comprises 970 acres and for years has been the home of the noted Sunny Slope herd of Herefords. Mr. C. A. Stannard, Emporia, Kan., the proprietor of Sunny Slope, disperses the herd on March 1-2-3, 1910. Two hundred and fifty high-class registered Herefords are to be sold. The farm is offered privately and is one of the best-equipped breeding plants in America. See page 54 for Mr. Stannard's advertisement of the sale.

This contractor got results.

Some years ago a contractor building a railroad in a warm climate was troubled a great deal by sickness among the laborers.

He turned his attention at once to their food and found that they were getting full rations of meat and were drinking water from a stream near by.

He issued orders to cut down the amount of meat and to increase greatly the quantity of Quaker Oats fed to the men.

He also boiled Quaker Oats and mixed the thin oatmeal water with their drinking water. Almost instantly all signs of stomach disorders passed and his men showed a decided improvement in strength and spirits. This contractor had experience that taught him the great value of good oatmeal.

The cost was small; 10c for regular size packages; it is also packed in large size family packages at 25c.



LETTERS intended for publication should be accompanied by the name and address of the writer, no necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

(Continued from last week.)

Before noon in came Joshua with a huge owl which he had shot some time before and had had stuffed. He placed the owl in a rocker in the kitchen and as they ate dinner Lee Frances asked where he thought of setting the owl.

"I kinder got to think a little," says Joshua, very gently. He looked at her kind o' smilin'. "I'm goin' to let it set awhile where it is till I think up a good place for it."

After dinner Lee Frances said, "Where do you want me to put that owl, Joshua?" "I guess he's all right where he is," says Joshua, jest as if a rocker in a kitchen is a nat'ral place for owls.

Lee Frances, she walked over to the rocker and stuck out her hand, an' Joshua was he-side that owl in a minute, an' he stood in front of it an' he says, as gentle as a lamb, but with a queer crazy kind o' glint in his eyes, an' very slow, "Don't you tech that owl, Lee Frances; you leave that owl lay. I set it down in that rocker an' it's my hand that's goin' to take it out. I want to know where that owl is. I ain't goin' to have him hid away in no clothes press. I want him to set an' set so's I kin know jest where he is. I set a heap store hy that owl."

Lee Frances replied that she had never touched any of his birds; that he always had set them on brackets himself, but Joshua said his things always disappeared and that now there was going to be something of his of which he knew the whereabouts. As he spoke his voice was such as "he might 'a' been askin' his girl to go to a Sunday sociable"—and Mrs. Griscom understood what "scairt" Lee Frances. After Joshua went out the two women sat speechless and stared at the owl which "we wouldn't 'a' teched any more'n ef he'd been made of dynamite, an' there he set an' stared at us with his big, shaky eyes.

In the course of a few days there were a good many callers and it was not long until Lee Frances was irritated by questions which she could not answer. Thinking to relieve her, Mrs. Griscom let out how the owl came to occupy the rocker in the kitchen so long. It was, worse than ever after that, and one night, after a day in which Lee Frances had been "all bust up an' cryin' like she was goin' to be sick," Umly spoke out to Joshua saying, "Now see what you've done. You're goin' to have Lee Frances sick on your hands; her nerves is worn to a frazzle. There's company every minit of the day starin' at that six-foot owl of yours. Nun o' us can go out on the streets without the young'uns cryin', 'Owl, owl, how's the fowl?' You've given' yourself a ridiculous name, an' now your wife's goin' to be sick, an' I hope she is, fer it will serve you right."

It was even as Mrs. Griscom anticipated, Lee Frances took sick and kept her bed. The visitor had the meals to prepare and the sick woman to nurse, and all the while the owl stared at her from the rocking chair, the neighbors crowded in to ask after Lee Frances, and Joshua's clothes piled up and up—"Wherever he put anything down there it lay."

After four days, during which food was laid on a table spread around hammer and nails and other articles Joshua had placed there, he looked so worried and so "peaked" that Umly said to him, "My land, you aln't goin' to be gettin' sick, too, are you?"

Not long after this when one night Lee Frances was feverish she asked Joshua to get her a drink. Mrs. Griscom who had been lying awake heard him fumbling his way down stairs and then, a moment later, a racket "that sounded like railroad trains an' boiler factories, an' there was Joshua swearin', yes, swearin' cuss words." Mrs. Griscom slipped on a skirt and putting a comfort about her ran downstairs to find Joshua laying about in the dark with the poker. When a match was struck "the room looked like a feather bed

had been ripped up in it." Mrs. Griscom laughed and laughed and said to Joshua that he couldn't keep the owl where it was now.

"Umly," said he, "I seen eyes shinin' at me in the dark; the moon cum through the winder an' jest struck his eyes, and upset like I am about Lee Frances, I clean forgot about that owl."

Mrs. Griscom left him to get the water and went on upstairs. Before going to her room she stopped in to say to Lee Frances, "The owl is dead. He killed it himself with the poker." And she heard Lee Frances "jest give a happy sigh an' lay back on her pillar." Half an hour later Mrs. Griscom heard Joshua snoring, a few moments afterwards her room door was opened quietly and there stood Lee Frances "lookin' spry's you please." She asked if Umly were awake and on hearing that she was said, "Come, let's red up the house. You get up with me, Umly, an' we'll put away every last thing that he's left around where it order 'be, and we'll burn up that owl, and we'll bury up his eyes what we can't burn."

So the two gotdressed and went down stairs. "An' we red the house good, an' we hung up an' put away an' folded an' stacked till the light came, an' that house was ready fer the sewin' society."

"No ma'am"—so the story ended—"there ain't nuthin' on God's earth as sot's a man, an' the sottest kind o' men is husbands, an' the sottest kind o' husbands is the Kingstons—you can't beat 'em."

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY—SUCCESS.

Success is the hand trained to do its work. The eye that sees that the lines run true, The ear that hears when the truth you shirk, The brain that conceives old truths anew.

Success is the strife with the heart aglow, The effort we make for our fellowman, The pride that laughs at the outer show, The soul that fulfils its highest plan. —E. H. Ellsworth, in N. Y. Independent.

A little toil and a little rest, And a little more earned than spent, Is sure to bring to an honest breast A blessing of glad content. And so, though skies may frown or smile, Be diligent, day by day; Rewards shall greet you after awhile If you just keep working away.

FOR YOUR HEALTH'S SAKE.

The human body may be compared to a furnace in its operating economy. The food we eat is the fuel needed to produce heat and energy; but oxygen is the prime essential agency to keep alive the vital spark. The more oxygen we admit the brighter the fires will burn and the more pronounced is the energy produced.

It is dreadful the way in which the least little chill in the air brings down the windows at night.

You should never be in a room, either day or night, winter or summer, into which there is not a current of fresh air blowing.

One person can poison the air in the average bedroom in which no window is open in half an hour.

Every breath of bad air is just so much poison in your system.

Not one school room in ten has enough fresh air, and then the children are blamed when they do their lessons badly and generally misbehave.

The poor little things are half dopy with poisoned air.

MIXED.

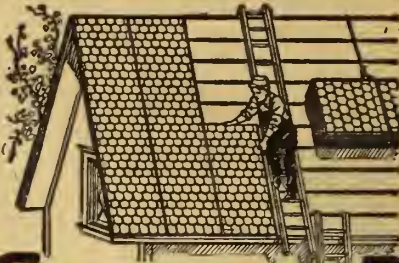
Little Johnny attended church and heard a spirited political sermon. At dinner the same day after one of his unusual quiet spells he exclaimed:

"Pa, whst are we, anyway, republicans or Presbyterians?"—Life.

WOMANHOOD.

No man who ever had a mother, a sister, a sweetheart or a wife has the moral right to attack womanhood in any way. Pure, honest womanhood is the greatest and most complete gift of the divine, and its worth has never been told, and never will be, in the history of the race. Her station in life is the most sublime, the most sacred and by far the most helpful the world ever knew. To cast a shadow upon womanhood gives the strongest evidence of mental and moral decline, the highway to either the madhouse or the depths of degradation. To continually slur woman and to speak ill of her life relationships is not right and such practice should be dis-

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Buy at Factory Prices. We are largest makers of iron and steel roofing and pay the freight on all Steel Shingles: Plain, Corrugated, V-Crimp Roofing; Imitation Brick Siding, etc. Write for free catalog 148 and ask about our \$10,000 Guarantee Bond Against Lightning.

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HOME INSTRUCTOR,

a monthly home and fashion journal for women. The fashions are fully illustrated and you need this magazine to keep in touch with the latest styles for women and children. All the patterns can be obtained for 5c each, and this will save you many times its cost in one year. The Home Instructor is a bright, clean, entertaining, and instructive magazine. Besides the fashions, it has departments for every feature of home life with the latest and best stories.

MY SPECIAL OFFER. Send me 25 cents for one year's subscription to The HOME INSTRUCTOR and I will send you a copy of my big fashion book, free, postpaid, as a premium. I will agree to furnish you any pattern you want thereafter at 5c each. This I do, not because I care to make money off the patterns, but because I want your subscription to my magazine. This fashion book has cost me a lot of money and I can't afford to give it away except with yearly subscriptions. I would advise you to send in before the supply is exhausted. Better send today. Address: A. OTIS ARNOLD, Dept. H QUINCY, ILL.

What To Do For a Cough.

Here is a home-made remedy that overcomes an obstinate cough quicker than any costly medicine you could buy. Any woman can easily make it in five minutes.

Granulated Sngar Syrup... 13 1/2 oz. Pinex 2 1/2 oz.

Put the Pinex in a clean pint bottle and fill up with the syrup, made as follows: Take a pint of Granulated Sngar, add 1/2 pint of warm water and stir for about 2 minutes. Take a teaspoonful every one, two or three hours. It tastes pleasant—children like it.

This simple medicine is also splendid for colds, whooping cough, bronchitis, incipient consumption, chest pains, etc.

Pinex, as you probably know, is the most potent form of Norway White Pine Compound. It is rich in all the well-known pine elements. None of the weaker pine preparations compare with the real Pinex itself. Your druggist has it, or will gladly get it for you.

The full pint of this effective cough syrup can be made for 54 cents. It keeps perfectly, and lasts a whole family a long time.

Strained honey can be used instead of the syrup, and makes a very fine honey and pine tar cough syrup.



BEEES

Free samples of Comb Foundation and Bee Veiling. Free advice to beginners with our free catalog No. 2 of Bee-keepers' supplies will be mailed to you, if you send us a postal request today. DADANT & SONS, Hamilton, Illinois

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FIFIELD GASOLINE TANK HEATER

ABSOLUTELY indestructible from freezing. No ashes; no sparks; heats largest tanks. FIFIELD SANITARY CISTERN FILTER cleans dangerous and dirty water. Cost is small. For circular about both, address C. C. Fifield, Grand Junction, Ia.

When writing to advertisers please mention this paper.

couraged and denounced by all sensible and well-meaning men.

HOUSEHOLD WRINKLES.

A pinch of salt in coffee helps to give it a delicate flavor.

For chocolate stains use cold water first, then boiling water.

Salt and vinegar will remove stains from discolored teacups and dishes.

Crontons for soup are most easily made by cutting stale bread about half an inch thick, buttering it thickly on both sides, cutting in half-inch squares and baking in the oven until brown.

To make the skin soft and keep it from chapping, take a pint of bran and add a cup of odd bits of soap powdered fine. To this add a tablespoonful of powdered borax. Mix well together and put into bags just large enough to handle. This will make an excellent scrubbing preparation. Rinse well with tepid water.

A thrifty housewife has hit upon a very expeditious way of ironing her sheets which she finds quite satisfactory. The sheets are folded down the middle lengthwise, then the tops and bottoms are folded together. Place on ironing board with crosswise fold from you. Then iron small plain pieces, napkins, towels, etc., on the sheet. As the sheet becomes smooth, shift from you until one side is done; then turn and do the same on the other side. In a short time the sheet is nicely ironed, and you have saved many minutes, as well as some gas.

TO BOIL A POTATO.

The Irishman's way of cooking a potato in its jacket is the scientific one, though he may not realize it. The valuable salts of the vegetable lie next its skin and when peeled these are lost. If cooked in the skin they should be free from any blemish and scrubbed absolutely clean. With a sharp knife cut a narrow band of the skin around the center of the potato. Be sure the potatoes selected are of uniform size. Cover generously with boiling water, adjust the lid, immediately let come to a rapid boil, then push back where the water will cook gently until the potatoes are tender. When they have been cooking about fifteen minutes, uncover and add salt, about a tablespoonful for every dozen potatoes. In half an hour medium-sized potatoes will be done. Small ones require a few moments less and large ones five minutes longer. Test with a fork. Potatoes boiled too rapidly are apt to be broken on the outside, leaving what the Irishman calls a "bone" in the center. Drain off the water, peel, sprinkle lightly with salt and serve at once. If peeled before boiling, cook in the same way, but after salting lightly spread a clean cloth over the saucpan to absorb the steam. Let them stand a few moments to become light and mealy. If they need to be kept warm for any length of time, place the pan containing them on an asbestos griddle or tripod, and cover with one thickness of cheesecloth.

AMONG OURSELVES.

One of the things which has always given me much pleasure in this circle is that every once in a while one of our own members sends us a bit of verse worthy of place in a first-class magazine. Such a contribution we have this time, from the pen of our valued friend, Mr. Eugene Secor, of Forest City, Iowa:

CONTENTMENT.

"Where leadeeth the road that runneth away
Over the hills where the dream-fruit
grows!"

It runneth past the maple rows,
Past the valley of play,
Over the bridge of woes;
Into the cities of Stress and Strain,
Where nights are short, and days of gain
Bring endless labor and fruitful pain.
'Tis better, love, that we
Bide under our own green tree.

"The road is traveled much
May we not follow the throng?"
Only the very strong
May hope the goal to touch,
Not they who lean upon a crutch
Of fateful limitations which
Forbid their being great or rich.
Dear heart, our sheltering tree,
With love 'tween thee and me,
Is better than the dusty road
Of painful toil, if anxious years corrode.

Now is not that a beautiful thing?
I confess to saying the lines of the
first stanza over and over again even
as an epicure might roll a dainty morsel
in his mouth before swallowing it.
Apart from the form and the rhythm
is the beautiful thought which we
should all heed; its message is needed
in this restless age when so many
wander off "into the cities of Stress
and Strain."

Sometimes women who are unhappily married or have knowledge of many unhappy marriages where men are the offenders come to think that men are infinitely worse than women and the cause of all marital trouble. In a home circle it is difficult to keep this idea from becoming prevalent, because the majority of the letters being from women a majority of the unhappily married who write are women. For this reason I am content to give place to a letter from an unhappy man:

I have been reading the Home Department letters for some time and the suggestion that the letters be read aloud by wives and husbands is a good one; possibly my own experience may be of value to some poor un-

fortunate. I will give it in as few words as possible. Twenty-five years ago, after an engagement of six months, I married the sweetest little woman that I have ever been permitted to meet and the years that have passed have never caused my affection for her to weaken. Two beautiful children have blessed our union, both of age and a credit to any parent. I have never used liquor nor tobacco in any form, and my expression above regarding my wife would indicate that no other woman has entered my life. When I married I connected myself with my wife's church, for whatever she loved it seemed natural for me to desire. Later I became a member of the church board. I have had most of the leading positions in my home town, and have accumulated considerable in the way of property, although at my marriage I was receiving but a small salary. Twelve years ago my wife became enamored of another man. I tried to reason with both of them, pointing out the ruin of the children's lives, etc., and both promised me that they would not meet any more, but I found that they continued to meet clandestinely. I then went to my clergyman for his counsel, but his influence had no effect. Had it not been for our children it would have been much easier. I could have quietly left, but with me, they were my first consideration. Besides, there were other things came to my mind. Was I the one to condemn her? It might have been I who did the wrong, as we are all liable to err. Possibly it was only a happen-so that it was she instead of me. Besides, we are taught to do unto others as we would that they should do to us. So I endeavored to overlook her fault, but since these occurrences my life has been very miserable. I have been constantly nagged; nothing that I have done has found favor in her eyes. I have expended a large amount of money on pleasure trips for her, ran into debt to gratify her every whim, but in the end she packed up our household goods and left me a year ago, taking the children with her. In our early married life she complained because I did not love her enough. Later she complained to our clergyman that I loved her altogether too much. On her leaving me I told her that the rent of the home place I would place in the bank regularly for her. My children visit me occasionally. I presume their reason for going with the mother is that I had always told them that no matter what came up, to stick to mama; that she would need them more than I. I have tried in every way to do my duty. My business has gone to decay because I can no longer concentrate my mind upon it. I have always been a great opponent of divorce. Undoubtedly I can secure one, and I consider it my duty to do so, for is it not an injustice to my wife to keep her tied to a man she undoubtedly hates? Besides, I cannot conduct my business, standing over a volcano, as it were, and not knowing at what moment an eruption might take place and wreck me financially. There are always two sides to a story, so that must be taken into consideration in scanning these few words. I consider this a very curious case, for at the start we had every prospect of a happy married life. We were not married hastily. Both were about twenty-one, and she was my first and only girl, and we were devoted to each other. She is a sweet-appearing woman, neat as a pin, a beautiful housekeeper, a fine cook and a most charming mother, and what more could a man ask? And I am cast out to drift on the sea of life, with the love of a dear little woman so firmly embedded in my heart that I cannot conceive how I could knowingly do her a wrong. Wonderful are Thy works, O God.

If any woman can read G. H.'s story as here related without a swelling of the throat it must be because of insensibility to the suffering of one who has borne much for love. Just what, if anything, we can do with this story I do not know. The possible field for discussion which suggests itself to me is: Should G. H. sue for divorce from the wife who has wronged and deserted him?

Our dear Mrs. Vanderhoef, who is spending the winter in California, sends a letter which gives us a glimpse of the good time she is having:

December 22d was such a bright, still, sunny day, with the invigorating air fresh from the old Pacific and the fragrance and beauty of flowers everywhere. "Too fine a day to stay at home," said our dear, kind hostess, so in a jiffy we are "rigged up" and are off for a long day of sight-seeing. We crossed the large cities of Berkeley and Oakland, then took the ferry across the bay to Frisco. First to the Presidio is the plan, so we board our car and cross the city clear out to the ocean, and there is the Presidio. The grounds are in a natural forest of ever-green trees—great, beautiful trees whose shade is so dense, cool and inviting looking, and such lovely flowers and shrubs. Many of the officers' quarters are beautiful homes, and all barracks are clean, commodious and comfortable looking; and of course just soldiers everywhere. About 3,000 troops are now stationed there. We ate dinner with "the boys," and there and at every other place were treated with pleasant courtesy and respect. At 1:30 p. m. we went out to the parade ground and saw the guard drill and the dress parade. It was all new to me and I enjoyed it immensely. We were shown about the grounds and points of interest pointed out. Then came the visit to the great, roomy hospital. Of course we had to get permission from headquarters to go there, and right there my heart failed me almost. But one of the convalescents said, "Oh, do go in. The boys are always so glad to see people." So I went in. We were shown into the long wards with their snow-white cots arranged on either side, and so few of them empty. Doctors, attendants and white-capped nurses moved about, all busy administering to the poor fellows. All windows were open and the life-giving ocean breeze floating in to them. A few were reading and writing, some playing games. We were invited into the convalescents' hall by one of the nurses. That and the long, deep porches which sur-



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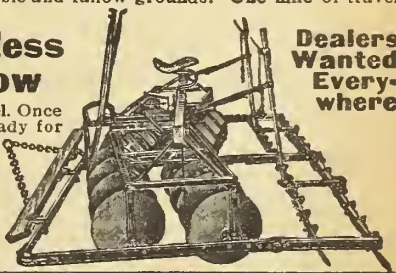
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round the hospital all look out on the ocean. Here we found "the boys," enjoying life as best they could, so far away from home and friends. All kinds of games, billiards, pool, cards, papers and magazines, but everything quiet and orderly. Such system and such discipline! But then I suppose it is the proper thing. There are fine forts very near the Golden Gate and city. A short distance inside Golden Gate is Alcatraz Island, where the military prison and its guards are. It looks a nice place, covered with nice-looking buildings and the ships lying at anchor around it, but it robs it of its beauty when one remembers the aching hearts of those imprisoned there. The Presidio contains 1,542 acres with frontage on the bay of one mile and a half, and almost as much on the ocean itself. The grounds are well kept with many miles of beautiful walks and drives. It seemed almost a miracle, but this hospital was not hurt at the time of the terrible earthquake of 1906, and hundreds of injured people were brought there to be cared for. One soldier who was there at that time told me that there was not a spot even on floors, porches and walks but some poor, suffering, bruised body was there.

Next best to going ourselves is to have some one else go and tell us about it.

A "Busy Bee" who finds time for reading comes to us with a book review:

I wish to say a few words about "Roxy," by Edward Eggleston. The book is a story of early Indiana life. It describes the custom and manner of living of a mixed population of a river town. It describes a political campaign with such vividness that it carries the reader back to his own childhood when the fife and drum furnished the music and the torchlight procession marched from the town in the "deestricht" schoolhouse and held joint debates, which usually ended with a "row" between the "fellars" from Rocky Fork or some other "deestricht." A revival is described so plainly that you feel it yourself. The mixed characters each with his characteristics so plainly told that you feel acquainted at once. The deceitful Tom Leathero, the egotistical Mark Bonamy, the beautiful but ignorant Nancy Kirtley, the teasing but good-natured Twoonnet, the crusty and contrary shoemaker, the studious and self-composed Whittaker, the ease-loving and ever-to-be-popular Mrs. Hanker, the pompous old judge, the unfortunate Bobo—you know them all, get acquainted so easily. But Roxy, do you know her? You think you do at first, then after awhile you wonder if you do. Her goodness, her devotion, her faithfulness, her clear-headed insight into everyday affairs seem natural enough, but when she refuses the unselfish Whittaker for the puffed-up Bonamy we find that she is short sighted in some things. When her trials come and she has severe ones, at first she does what most

women do. She leaves the house of her husband and goes home to her father, who grinds his teeth, but takes her by the hand and leads her in. After the storm has passed and the clouds have cleared a little, then it is that the wonderful nature shows itself. She goes back to her husband's home, takes the illegitimate child of her husband and brings it up as her own, is friendly to the sinful Nancy and gives her money to go away and start life anew. After awhile the repentant Mark returns—to be caressed and wept over and forgiven.

This sketch of "Roxy" should create a demand for the book. If those who have read it want another by the same author, "The Hoosier Schoolmaster" will meet the demand and prove eminently satisfactory.

From literature to meat is quite a drop, but food plays a very important part in life, and the matter "A Reader" wishes us to discuss is one of much greater concern in the average home than novel reading:

There is a subject I should like to see discussed in our circle. Some time ago there was an article on the different cuts of meats given in the paper. It advised more use of the cheaper cuts. It also referred to improper ways of cooking meat. Now this is what I should like to see discussed—new improved ways of cooking meats. In fact, I should like the study of all foods and what they contain. Sometimes I read of it not being good to start children to school on a breakfast of greasy sausage or meat and coffee, etc. So tell us what is nourishing, yet healthful.

What our friend suggests is something I have wanted for a long time. Are there members of this circle who have the knowledge necessary to write about foods in the way "A Reader" desires? There should be, in a circle like ours, young women who have had the advantage of training in a school of domestic economy. They, if none other, could write helpfully on this matter. And there are probably many women who have knowledge of appetizing ways of preparing the cheaper cuts of meat and of properly preparing a steak without a broiler. As I very much want letters along this line and fear they may not be forthcoming I think I will offer \$2.00 for the best article of from 300 to 400 words along the lines suggested. Let me have the letters within a fortnight, please.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson VIII.—Matthew VII., 1-12.

February 20, 1910.

THE GOLDEN RULE.

Jesus pictures God as benevolent. God thinks of his creatures. He is predisposed to do them good. If one asks of God he receives; if he seeks he finds. At the faintest tap God's door flies open.

Now, as he approaches the close of his Sermon on the Mount, his highest note is this, in which he exhorts men to be like God. They are to be benevolent. They are to consider others. They are not to shut themselves behind an impenetrable door. They are to be found of him who seeks, and he who asks is to receive of them. The needs of people can readily be discovered by one who asks himself, "What kind of treatment would I like to receive myself under similar circumstances?" He who renders such to others is religious in the highest and best sense of the word. He fulfils the law. He makes the prophets' message a fact. Love is the palm from which the digits of the law radiate. They all center in love.

Formal religion which cries, "Lord, Lord!" however correct the tone and inflection, falls short of the divine ideal. Vain is prophecy, casting out of devils and other works, if there be not this sincere, loving, well-wishing toward others, which expresses itself just as it would wish to be treated itself. This is the solid foundation on which a character pleasing to God can be built. It alone insures consistency and permanency. Any other principle of life leads to vacillation and, in the end, a moral collapse and ruin.

So ends the most illuminating sermon that ever fell on human ears. The people had never heard a rabbi speak like that. He had not sought to institute a system of doctrine or formulate a ritual. His purpose was to inspire a life in the soul—set up a

kingdom within, whose substance should be love and whose fruits should be peace and joy. That was the day on which the golden rule was born. Blessed be the day! But, after all, it is not a rule, not a precept, cold and stiff. It is a life. There is a heart beat in it. It is conduct actuated by love. It is the divine life in the human soul.

The Teacher's Lantern.

The contrast between mount of blessing and Sinai is marked. Mount of beatitude is carpeted with green and strewn with flowers. But stripped Sinai juts out of an arid waste. It is nature's object-lesson. The gospel with its grace and the law with its penalty are here figured. But the mount of beatitude does not supplant the mount of the law. It includes and enshrines it. As under the grassy slopes of Hattin, there are the Sinaitic rocks, so within the gospel are the unalterable principles of the law. St. Paul reasons: The law is like the domestic servant in the oriental home, whose duty it is to conduct the children to the schoolmaster. Thus the law, by its exactions and penalties, brings the whole race to the feet of its master-teacher. The Sermon on the Mount has been called the charter of the kingdom of God. "The Sermon on the Mount can not be a merely human production," was part of the sentiment Webster directed should be graven on his tombstone. From Hattin one can look down upon the field where the Crusaders met their last defeat. Strange that in very sight of the mount of blessing they should have so violated both its spirit and letter. Standing there one may almost hear the voice of the Prince of Peace as he says, "Put up thy sword!" Webster's speech on the "Powers of the Constitution" was the most power-

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DRESSMAKING—NO. 64.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

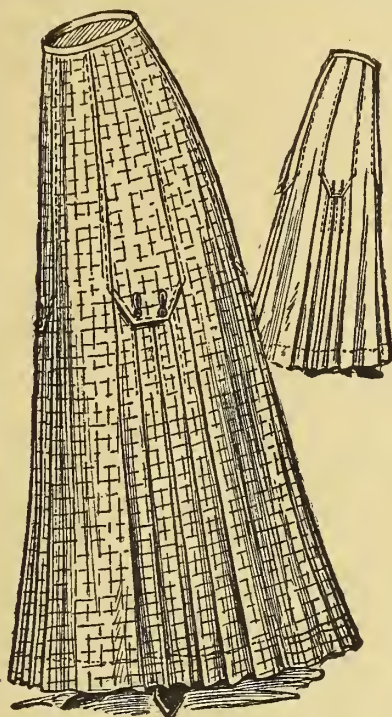
The skirt that is made in sections, or to give a panel effect, is an exceedingly smart one that is constantly growing in favor. This model is eminently graceful, yet quite simple. It will be found adapted to all seasonable materials and also to those of the incoming season. One of the pretty novelties woven to give a suggestion of a check is the material illustrated and it is trimmed with buttons and simulated buttonholes, but buttons would be quite correct or the edges finished with stitching or trimmed in any manner preferred. The skirt is in walking length and consequently adapted to the street and to simple indoor gowns. It is graceful and becoming without meaning elaboration.

The skirt is made in eight gores and each alternate gore is made in two sections, the lower being plaited and joined to the upper, which is shaped at its lower edge. The closing is made beneath the box plait at the back.

The quantity of material required for the medium size is 8 1/4 yards 24 or 27, 5 yards 44 or 52 inches wide. The width of the skirt at the lower edge is 4 1/2 yards.

The pattern 6544 is cut in sizes for a 22,

24, 26, 28, 30 and 32 inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt



[6544 Eight-Gored Skirt, 22 to 32 Waist.]

of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

Waists that are made with narrow square openings are among the smartest of all things. This one can be worn as illustrated or be made adapted to daytime use by the addition of the yoke and long under sleeves as liked. It is very pretty and very attractive, yet perfectly simple withal and will be found adapted to all the pretty fashionable thin stuffs. It can be made of one throughout or of a combination of materials as liked and it is consequently practical as well as essentially smart. In this case chiffon cloth is trimmed with handsome banding and the sleeves are edged with bead fringe, while there is a girde of messaline. The tucked portions at center front and backs would be pretty made from net with the remainder of the blouse made from crepe de Chine, messaline or other similar material, or the entire



[6545 Fancy Waist, 32 to 42 Bust.]

upper portion could be made of one fabric with the plain lower portion of the other. For the yoke and the under sleeves net, lace, chiffon, all similar transparent materials are appropriate.

The waist is made with a fitted lining on which the various parts are arranged. The upper, tucked portion is cut in sections, the center front and back being separate, while the sleeves are cut in one with the side portions, and the joinings are made beneath the trimming. The plain lower portion is seamed to the lower edge and the girde is arranged over it. The long sleeves are cut with upper and under portions and when the yoke is desired it is applied over the lining.

The quantity of material required for the medium size is 2 3/4 yards 21, 2 1/4 yards 27 or 1 3/4 yards 44 inches wide with 2 3/4 yards of banding, 3/4 yard of messaline for the girde to make as illustrated, 1 3/4 yards 18 for yoke and long sleeves when these are used.

The pattern 6545 is cut in sizes for a 32, 34, 36, 38, 40 and 42 inch bust measure, and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

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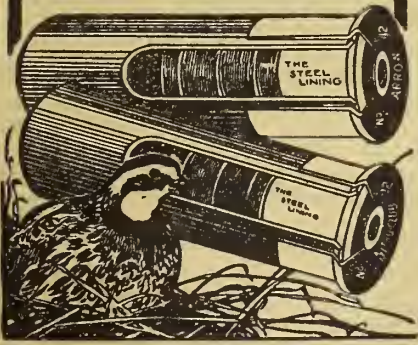


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THE YOUNG FOLKS

A Texas Boy.

I am a boy twelve years of age, weigh ninety pounds and am red headed. We live in the panhandle of Texas on the plains. We are six miles from town and like it fine. We are having fine weather. We came here from Nebraska. I haven't gone to school this winter, as we can't get a teacher. I have two miles to go to school and I study history, arithmetic, spelling and language, also geography. My papa and brothers have plowed almost all winter. I help do chores such as milking, feeding pigs and colts. I also plow while papa sharpens plowshares. He does all of our blacksmith work. We live three miles from the postoffice and go after the mail on horseback every other day. It is carried there in a hack from Dimmit and from Hereford to Dimmit by hack. I have two brothers living close by and I help them sometimes. There are lots of antelopes and wolves in this country.

Weby Tilton.

A Thirty-Acre Farm.

I am a girl fourteen years old and live in Missouri. We live one mile and a half from the schoolhouse and three miles from Billings. The rural mail passes our house. We have a nice five-room house, all painted new this fall. We also have a smoke house, hen house and a large barn. We live on a thirty-acre farm. The Frisco railroad runs along the side of the farm. We have five acres of nice timber, five acres of pasture land, four acres in wheat, two and one-half acres in strawberries and the rest is corn ground.

Ola Gilbert.

On a Missouri Farm.

I think it would be a bright idea for us young folks to exchange our ideas pertaining to country life. In the first place, I will say that we came from Johnson county, Iowa, to our Missouri home. We have some rocks here which was something new to us, but we can raise lots of fruit here and, all things considered, we like Missouri pretty well. We have a pleasant country home here, consisting of 240 acres. The house we built three years ago has nine rooms with cellars under part of it and a well under the back porch. There is a large orchard west of the house, a peach orchard east of the house, and the barn is north. We live two miles from school. We had vacation Christmas week. We have a man teacher, and there are thirty-one scholars in the district. It is a pretty nice school. I am twelve years old and in the seventh grade, I have three brothers and one sister. Ella Blackmore.

Canary Birds for Pets.

I wonder if any of the girls that read this paper enjoy birds, flowers, and music? I do. I have four canary birds, one parrot and an organ and when we all get to making our music you can imagine about what a racket we make. I have taken four terms of music and expect to take lessons next summer again. We have a great lot of house plants. We had a nice Christmas cactus and it was budding, but got too cold and the buds fell off. I was very sorry, for I do think it is so pretty when in bloom. We live in a large, six-room house, three miles from Miami, Okla. I have one nice room all to myself.

Mabel Beauchamp.

Going After the Cows.

"Well, Laura, it is almost time to bring the milk cows in. You will have to go on Dick (a small mule). Dan (our pony) isn't in the barn."

I got on the mule and started. I rode up on a large sand hill just east of the house so that I might look over the pasture. I saw the cows over at the farthest end of the pasture and away I went after them. When I got to where the cows were, two were gone. I started these cows home and

went to look for the other two that were missing. One was just a short distance from the rest, but I looked all over the pasture and finally found the other one behind a small canyon bank. I got her out and started home. Going home she went into some acorn bushes and I could hardly get her out. I tried and tried and tried. I would go on one side and she would go on the other. I couldn't get inside of the bushes on account of them being so thick. It was almost dark when she took a notion to come out and go home. When she came out she looked scared, her eyes looked so green, and she ran all the rest of the way home.

Just before I got to the house a large bat fly lit on Dick's neck. I went to knock it off and just as I hit his neck he jumped sideways and threw me and caught my foot in the reins. He just went around and around for a while, and I began to think I was getting pretty near the happy hunting grounds (as the saying goes) when all at once, as chance would have it, my foot slipped and I fell prone upon the ground. When I came to, my mule had run home and I had to walk the rest of the way. When I got home I was so tired I went right to bed.

Laura Peaney.

Coasting, But Where is the Sled?

Harold was a little boy who lived near some hills. He often wished that there would be snow on these hills all the time. One morning Harold dressed and went downstairs. He wanted to go outside right away, but his mother said that he should eat his breakfast first. After he had eaten his breakfast he went out into the hall and put on his coat and cap. The snow was quite deep so he had to put on his leggings and overshoes. Then he went into the woodshed to get his sled, but when he got his sled out it was broken. Then he cried out that his sled was broken and was just going to cry, but his mother told him not to cry because she would try and find him something else. So his mother went into the woodshed to see what she could find. There was a long board in one corner of the wood shed that was bent in on one end. This he took and went to the hills. Then he went a-flying. He was about half way down and he fell off and the sled went down, leaving Harold coasting behind

it. This is the way Harold coasted without a sled. Sophie H. Sands.

A Bright Little Girl.

I am a little girl ten years old. I am staying with my grandma near Noel, Mo., while my grandpa is in the South. He is now in Louisiana. My grandpa raises fine stock and bees. He also raises queen bees for sale. My grandma raises fine chickens. My grandpa's name is James T. Williams. My home is in Carl Junction, Mo. I go to school at Noel. This is my fourth term of school. I am in the fourth reader. I study reading, arithmetic, language, geography and spelling.

Geneva Beckner.

A Mischievous Boy.

My brother Tom and I went hunting one day. I saw something big and I was afraid to tell Tom about it, for he would shoot it first, so I just up and shot it.

"Oh," said Tom, "you have shot the neighbor's turkey. What shall we do?" We went and told him what I had done and he was mad, but I was sorry. When we went back to the house we had a lot of company and I soon forgot about shooting the old turkey.

In the afternoon my sister and some boys and girls went out riding. I asked sister if I could go and she said I couldn't, but I slipped under the seat and covered up with an old blanket. At last they all got in. Sister was in the back seat and said, "Papa must have forgotten to take that sack of corn out." Gee, but I was scared.

They talked all the way, but I couldn't understand what they were talking about until at last I heard one say, "There comes an old man." I heard him say, "Do you know where I can get some feed for my horse?" By this time I was very scared and wished Tom was along to help me out. Then sister said, "Here is a sack of corn you can have."

I began to wish I had stayed home with Tom. In a few minutes some one began to jerk and pull me and they almost broke my head and I yelled.

"You naughty boy," screamed sister, "I shall never forgive you!"

I didn't say much going home but only thought of the spanking I would get after I got there, but when we arrived I found they had all been hunting for me and when father saw me he said he was the happiest man in the land.

When I went to bed Tom told me the next time I got a chance like that, to let him know so he could go, too.

George Smith.

Ask your neighbor to subscribe for The Homestead.

Don't Pay Tribute to a Trust

If you had a pair of rubber boots made to order, you couldn't have them made any better than

The Century Boot (Gold Cross Brand)

No matter how carefully they were made, you wouldn't secure a better wearing boot. CENTURY Boots are made of fine rubber—the best rubber produced in the world. The vamp is made extra strong by forcing, under powerful hydraulic pressure, rubber into the best quality of canvas duck. To prevent cracking at the ankle (like ordinary boots) an extra pure gum, no-crack ankle reinforcement is used.

Century Soles are made of the toughest compound known. This sole is so compounded and vulcanized that it will rebound when it strikes a hard substance rather than chip off, as the soles of an ordinary boot would do.

Century Boots Are Cheapest

because best—best in material, best in workmanship, and best for wear. Look for the name Century and Gold Cross on the boot. When you want any high-grade satisfactory rubber boot or shoe, ask for the Gold Cross line. It insures you quality and service.

If you can't secure CENTURY Boots from your dealer, write us and send his name, we will see that you are supplied.

The Beacon Falls Rubber Shoe Co.

New York

Chicago

Boston

Look for the Gold Cross

ROSEINE PENNSYLVANIA KEROSENE

gives one-third more light; increases home comforts; no odor; no smoke; no explosive gases. Ask your dealer for Roseine Penna. Kerosene. Don't ask him for his "best oil" for that may be just common, dangerous oil that gives a poor, yellow, eye-straining light. If he don't have Roseine, he will get it for you if he values your trade. If the oil he sells you for Roseine isn't the best kerosene in the world, it isn't Roseine. Always shipped in yellow barrels bearing our trade mark "Roseine." Roseine is the ideal incubator oil.

Here's the Easy Way to Dig!

Iwan Post Hole and Well Auger does a day's work in two hours! Slips right through wet or dry hard-pan, clay, gumbo, sand or gravel with little exertion. Digs 8-ft. post hole in three minutes in any kind of soil! With cheap pipe extension you can dig 10 to 60 foot wells in a day. Works on only successful scientific principle. Name Iwan protects you against worthless imitations. Best dealers will supply you. If you can't, write us, enclosing his name and we'll send valuable FREE Book "Easy Digging" and name of nearest Iwan dealer. Address [10] Iwan Bros., Dept. 113 South Bend, Ind.

ROCKFORD ENGINE BOOK FREE

Send postal now. Learn about most economical, durable, simple Gasoline Engines made. Don't buy till you get our book and low prices. Address ROCKFORD ENGINE WORKS, P. O. Box 11, Rockford, Ill.

In writing to advertisers please mention this paper.

Boycotting Your Stomach

By O. W. Johnson

HE WHO will not work shall not eat." That was law in historic Jamestown. Honest people find it a good rule today. Some have tried to eat without working, but it remained for this day and age to reverse the affair. We have been told that a new era was dawning in this or that until the statement has become trite. But now we have a sensation! Truly this is a new order—work without eating. No more meat until the price goes down. It is vegetarianism with a vengeance for revenge. To the live stock interests this crusade is of keen importance. It can hardly last, but surely it has been

THE STORY OF THE PEANUT SHELLS.

As everyone knows, C. W. Post of Battle Creek, Michigan, is not only a maker of breakfast foods, but he is a strong individualist who believes that the trades-unions are a menace to the liberty of the country.

Believing this, and being a "natural-born" scrapper for the right, as he sees it, Post, for several years past, has been engaged in a ceaseless warfare against "the Labor Trust," as he likes to call it.

Not being able to secure free and untrammelled expression of his opinions on this subject through the regular reading pages of the newspapers, he has bought advertising space for this purpose, just as he is accustomed to for the telling of his Postum "story," and he has thus spent hundreds of thousands of dollars in denouncing trades-unionism.

As a result of Post's activities the people now know a whole lot about these organizations; how they are honeycombed with graft, how they obstruct the development of legitimate business, curtail labor's output, hold up manufacturers, graft upon their own membership, and rob the public. Naturally Post is hated by the trades-unionists, and intensely.

He employs no union labor, so they can not call out his men, and he defies their efforts at boycotting his products. The latest means of "getting" Post is the widespread publication of the story that a car which was recently wrecked in transmission was found to be loaded with empty peanut shells, which were being shipped from the South to Post's establishment at Battle Creek.

This canard probably originated with President John Fitzgerald of the Chicago Federation of Labor, who, it is said, stated it publicly, as truth.

Post comes back and gives Fitzgerald the lie direct. He denounces Fitzgerald's statement as a deliberate falsehood, and underhanded and cowardly attempt to injure his business, having not the slightest basis in fact. As such an effort it must be regarded. It is significant that this statement about "the peanut shells" is being given wide newspaper publicity. In the "patent inside" of an eastern country paper I find it, and the inference naturally is that labor-unionites are insidiously spreading this lie.

An institution (or a man) which will resort to moral intimidation and to physical force, that will destroy machinery and burn buildings, that will maim and kill if necessary to effect its ends, naturally would not hesitate to spread falsehood for the same purposes.

We admire Post. While we have no enmity toward labor unions, so long as they are conducted in an honest, "live-and-let-live" kind of a way, we have had enough of the tarred end of the stick to sympathize thoroughly with what he is trying to do. He deserves support. A man like Post can not be killed, even with lies. They are a boomerang, every time. Again we know for hasn't this weapon, every weapon that could be thought of, been used (and not simply by labor unions) to put us out of business, too?

I am going to drink two cups of Postum every morning from this time on, and put myself on a diet of Grape-Nuts. Bully for Post!—*Editorial in The American Journal of Clinical Medicine.*

making its influence felt during the past few weeks. While the attack may be aimed primarily at the middleman, the boycott method cannot but make the blow fall on the producer.

If a boycott is to be effective it must be based on fact. It must be that the price of meat on the hoof as well as at the retailers' is too high. Is that the case? Values are relative. Is eight-cent meat higher in price to the man getting \$5 per day than five-cent meat was to the man doing the same work a few years ago for \$2.50? As measured in dollars and cents it is. As measured in wages it is not. Then how can eight-cent hogs be considered higher with 60-cent corn than five-cent hogs with corn at thirty cents? The price of everything has gone up. The value of a dollar has gone down.

It looks as if some people had come to jealousy because the farmers are wearing unpatched jeans, live in well-heated, well-lighted, and well-furnished homes and ride to the summer Chautauqua in automobiles. Hence their attack on meats. Suppose the farmers should boycott some particular brand of clothing? Would not someone be putting up a howl in short order as to the unfair methods used to bring down the price of the kind of clothing? And they would be right. It would be unfair. It would be fully as badly off of the right track as this boycott on meats. A daily paper recently quoted one of the big packers as expressing his profound sympathy with those who have to pay the high prices and asserting his certain joy at selling meats at a lower figure if they could be bought on the hoof at lower prices. In other words, he was perfectly willing to see the men get cheaper meat if the farmer had to take less for what he has to sell. No reduction in packers' profits; that is out of the question. The farmer gets none too much for his produce now. When he thinks of the days of three-cent hogs there is a smile, but watch the change when he buys a crib of corn or pays off the hired man.

Certainly the boycott is a new philosophy and a new physiology. What will a man eat? What will the cook do? You might as well ask the cattle to boycott hay because it is selling at such high prices. When a man is hungry he is hungry and he must eat. Will the working man live on breakfast foods with all of their enervating nothingness? If he will, let him. And it is hard to see just where the big end of the horn is when a man quits eating fifty cents' worth of meat and buys fifty cents' worth more of the cereals.

Is there any real reason for all of this boycotting and boycotting talk? Are the working men in real need now? It has not been long since the factories had goods they could not get rid of, the worker was idle because he could find no market for his services, and the farmer had grain and stock that he could not market with profit. The farmer needed the goods, the manufacturer needed the worker, the worker needed the food stuffs. Each had what the other wanted. It was really a drug on his hands. But they couldn't trade. Now the thing is going. The smoke rolls from the factory stacks, the sweet savors drift from the worker's kitchen, the farmer has tools and comforts. Would the boycotters enjoy someone's taking as hard a whack at their wages as they are trying to take at the price of live stock? Hardly. Does anyone really want the wheels clogged up as the boycotters thoughtlessly act as if they did? Their idea is to get food at prices ruling a few years ago if they had had the money to buy it with then. This cannot be. No one really wants it to be so. No one wants the wheels stopped.

CAUSE OF HIGH PRICES OF GRAIN

High prices for wheat have been due to two causes, says The Kansas City Times. The exhaustion of supplies before the crop of 1909 was marketed, which resulted in an extraor-

inary milling demand for the new crop, and the fact that many more farmers than usual held their wheat instead of marketing it at the usual time. The result has been that, though half of the crop year has passed, the quantity of wheat marketed thus far has been little more than sufficient to meet current milling demands, and the supplies at market centers are smaller now than in any previous January in ten years.

Recently the movement of wheat from the country has increased and some grain men and millers are beginning to believe that enough grain may come into market centers to force prices of wheat and flour somewhat lower.

Corn prices have been kept up by the abnormally cold and stormy weather which has caused increased feeding, checked the marketing of the crops, and stimulated speculative buying until corn now is about ten cents higher than a year ago, though last year's crop was 1,000,000 bushels larger than that of the preceding year.

GOOD ROADS MEAN PROSPERITY.

Secretary Frank Wiggins, of the Los Angeles Chamber of Commerce, was the principal speaker at the annual meeting and banquet of the Riverside Chamber of Commerce. With "Things Worth While" as his subject, Secretary Wiggins took up the live topic of "Good Roads."

"Good roads make good country. Good roads mean progress and prosperity. Good roads have money value beyond our conception. Bad roads constitute the greatest drawback to international development and progress means lack of communication, high prices for the necessities of life, loss of untold millions of wealth and idle workmen seeking employment.

"Good roads, like good cities, make habitation along them most desirable. They enhance the value of farm land, they economize time and life and make billions in money, save wear and tear, worry and waste and beautify the country, bringing it in touch with the city, make better homes and build up hearthside. They are the revenues of trade, the highways of commerce and agencies of speedy communications, the ligaments that bind city and country. These assertions have been proved a thousand times over where good roads have been built.

"Look at the most extensive good road ever built in the United States—the National Road from St. Louis to Philadelphia, the artery that supplied the means for rapidly settling up the middle West. Along its pathway sprang up prosperous cities and towns and farmers rushed for acreage along its borders. This road stands today, but has lost its national prestige, as it is now a local road. It is kept up by the state, county and municipal authorities and it has repaid the investment ten times its worth in commercial, social and educational returns. Washington and Jefferson foresaw the advantage without any previous knowledge that would accrue by the creation of such a road.

"Why our own communities cannot see with all the illustration and demonstration before them that it is to their best interests to build, keep and travel good roads without going into lengthy arguments and discussions is more than I can fathom. Just think of it: It costs the farmer in the middle West \$3 per ton to haul his product a mile over the old roadways while under the general system of improved roads it will effect a saving of more than 70 per cent, or one-fourth billion dollars on the total farm tonnage of the United States, and in addition to this saving of time, wear and tear you have a sum sufficient to build a good road from the Atlantic to the Pacific, which would not only be national in its character, but international in its worth."—(Los Angeles Times.)

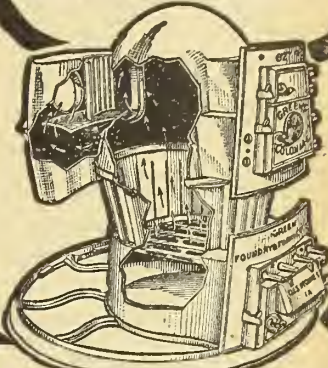
ROACHES, ANTS, BEETLES.

Also Water Bugs and Bed Bugs. Nothing so effective in complete extermination as Rough on Rats. For Roaches, mix half the contents of a 15c. box with 1 pound mashed, boiled potatoes, and place near their haunts. Even the hardy black beetles and water bugs are completely annihilated. Directions for Bed Bugs with packages: circular on ants by mail. 15c., 25c., 75c., at druggists.

You Will Never Have Furnace Troubles With Green's Colonial Furnaces

They are constructed in a manner that gives satisfaction to their owners. With a Green Furnace all of the vexatious heating problems are solved. They save labor. They save fuel.

Notice the massive construction of the Green Furnace. Every piece is made in our own shops and under the eye of an expert superintendent of furnace construction. A Green Furnace is never shipped until it has been set up, every part fitted and tested. Every purchaser gets a guaranteed furnace backed by 24 years of successful furnace construction. Green stands ready to replace any broken or defective parts. Send for catalog and prices.



There should be a dealer in your town. If there isn't, we will ship your dealer a furnace for inspection. The Green has dozens of points of superiority over any other furnace made. This big catalog tells all about them. Tells why and where they are better. It tells how the Green is constructed; how and where to place your furnace. It's free for a post card.

Ask Your Dealer

Or Write

For Free Catalog.

Green Foundry & Furnace Works,

102 Second Street,

Des Moines - Iowa.

BOWSHER

(Sold with or without elevator) CRUSH ear corn (with or without shucks) and GRIND all kinds of small grain. Use Conical Shape Grinders. Different from all others.

LIGHTEST RUNNING.

(Our Circular Tells Why.) Handy to Operate. 8 Sizes—2 to 25 h. p. One size for wind-wheel use.

Also Make Sweep Grinders; both Geared and Plain.

E. N. P. Bowsher Co.

South Bend, Ind.

FEED MILLS

GET TELFERS NEW 1910 RUG BOOK

Showing newest 1910 designs in carpets, rugs, linoleums and lace curtains in actual colors. We ship direct to you, freight prepaid. Don't pay high prices. Order by mail. Save \$5 to \$10 on every carpet or room size rug. Send postal today—get our magnificent illustrated catalog of 2,000 carpet and rug bargains and our prepaid freight proposition by return mail. Address: TELFER CARPET CO., 843 Walnut St., Des Moines, Ia.

We Pay Freight

FREE

FARM WAGON COVERS

Farmers who have bought them say that they pay for themselves in less than a month. Every farmer needs a 6x12 Slickerine waterproof wagon cover. They only cost \$4.40. Write today. Peoria Tent & Awning Co., 119 Main Street, Peoria, Illinois.

ANTI-NICOTINE PIPE

"Get the Pleasure Without the Poison!" Trade The Pipe They Let You Smoke at Home Mark Reg. Looks and colors like meerschaum. Absorbs the nicotine and keeps on tasting sweet. You never had such an enjoyable smoke. Order 3 or More Today. H. MENCES The Smokers' Friend 189 Wayne Building, St. Louis, Mo.

40c

Three For \$1.00

Sent Prepaid Anywhere Money Back If Not Satisfied

When writing please mention this paper.

ADVERTISING NOTES.

One of the most useful things on a farm is a farm wagon cover, as advertised by the Peoria Tent & Awning Co. on page 41. They only cost \$4.40 and will save twice that amount on one load of oats, corn or mill feed if you get caught in a rain. They are six by twelve feet and absolutely waterproof. Write for one today to Peoria Tent & Awning Co., 119 Main St., Peoria, Ill.

The advertisement of the Admiral two-man hay press will be found on page 45 of this issue. The Admiral is a self-feeding press whose numerous advantages become apparent to anyone who will give the machine a careful examination. In the absence of an opportunity to do this, send for a copy of catalog and descriptive price list, for which address the Admiral Hay Press Company, Kansas City, Mo.

From time to time advertisements of Absorbine have appeared in this paper. Absorbine is a remedy for the removal of wind puffs, capped hocks, thoroughpin, fatty tumors, enlarged glands and all puffs and swellings from the legs of horses. The remedy is thoroughly effective. It is sold for \$2 per bottle, and may be had by forwarding that amount to Mr. W. F. Young, P. D. F., 37 Temple St., Springfield, Mass. Absorbine is fully described in a little pamphlet which is sent free to any reader of this paper who writes for it to the above address.

GUARANTEED EVENER.

Mr. W. S. Menefee, of Atlantic, Iowa, whose advertisement appears on page 49 of this issue, has an evener which he believes should receive consideration by every extensive farmer. Look up the advertisement and write him, mentioning The Homestead.

HARROW ATTACHMENT FREE.

The American Plow Company, of Madison, Wis., who sell their full line of sulky, gang and walking plows with freight prepaid direct to the farmer, give each purchaser a chance to secure a harrow attachment free of charge. Particulars of this offer and implementation book of the American Plow Company, 2315 Fair O. Ave., Madison, Wis., can be had by writing to the company. See advertisement on page 44.

THE THOMAS AS DRILL.

The Thomas As Drill, an advertisement of which appears on page 32, is one of the important pieces of farm machinery, and one without which a farmer can afford to be. The drill has numerous advantages, all of which are fully described in a complete implementation book and price list. Copy of this catalog will be sent upon receipt of postage directed to the Thomas Manufacturing Company, Springfield, Ohio.

HORSE TRAINING.

Young men on the farm should acquaint themselves with the information that will be learned from Prof. Jesse Beery, whose advertisement is one of the features of page 34 of this paper. Professor Beery is a horse trainer of many years' practical and successful experience. He has become celebrated, in fact. He is now teaching his system of horse training and colt breaking. Young men who take up the business of breaking horses put themselves in the way of securing a liberal income. Through Professor Beery's plan the profession may be learned at a very slight cost. Full particulars, together with a handsome book about horses, will be sent free to those who write for it to Prof. Jesse Beery, Box 54, Pleasant Hill, Ohio.

FURNACE COMFORTS.

It is a frequent circumstance to hear housekeepers complain about their furnace troubles. Furnace troubles do not exist where the Green Colonial furnace has been installed. The simplicity in the construction of the Green is illustrated in the advertisement on page 41. The writer can readily commend the Green furnace to our readers because of having used one for a good many years and found it to be highly satisfactory. The Green furnace is made by the Green Foundry & Furnace Co. and sold through dealers, or direct to the farmer should the dealer not have it on hand. Descriptions, illustrations and prices are given in Green's furnace catalog which will be sent free of charge to anyone who writes for it to the Green Foundry & Furnace Co., 102 Second St., Des Moines, Iowa.

PETZER GRAIN DRILLS.

The Petzer grain drills are advertised on page 48 of this issue. The drill is of a peculiar construction by means of which seeds are drilled one at a time with no crowding, crushing, breaking or any chance of injury. Those who remember the exhibit of the Petzer made at the state fairs cannot fail to recall also the wonderful merits proven. The illustrations in the advertisement give some of the details of construction. Additional information may be had by readers of The Homestead who fill out the coupon in the advertisement and forward it to the William Petzer Company, Springfield, Ill. In return a book will be forwarded which gives complete details of the Petzer grain and fertilizing drills, with prices, etc. The coupon will be credited on any purchase made to the amount of \$1.

A MILLION A YEAR.

The big advertisement of the Mishawaka Woolen Manufacturing Company, as shown on page 7 of this paper, gives a lot of arguments in favor of the Ball Band rubber footwear that will prove interesting reading to farmers who wear rubber boots. This firm have announced that they sacrifice profits of a million dollars a year in order to put quality into the goods they manufacture. Not every manufacturer is as conscientious with his goods and certainly not many manufacturers have been as richly rewarded. More than 45,000 dealers in the United States handle the Ball Band goods. The further magnitude of the business may be inferred from the fact that a few days since public prints announced that this firm had made a purchase of \$2,000,000 worth of rubber, the crude product, from which to make the Ball Band goods. The Ball Band rubber boots are savors of doctor bills. There is no one situation so conducive to perfect health as warm, dry feet and during the sloppy spring nothing can procure this condition so

well as Ball Band rubber boots. The goods are sold by dealers everywhere. Insist on buying them.

ARCTIC OVERSHOES.

The severity of the winter has led every farmer to appreciate the comfort of a good, high overshoe, such as that advertised by the Beacon Falls Rubber Shoe Company, on page 40 of this paper. The advantages of the Gold Cross brand are so many that we may not take the space to enumerate them at this time. They are all rubber, of a high quality, thoroughly durable and a perfect means of excluding snow and keeping the feet warm and dry in any weather. While the Gold Cross arctics are generally sold by dealers, there may be here and there one who does not handle them. In such cases the buyer may be accommodated by writing to the Beacon Falls Shoe Company, Chicago, Ill.

BUY YOUR STUMP PULLER NOW.

Do not wait until next fall to buy your stump puller. Every crop you plant in a stumpy field represents a big loss in cash to say nothing of the annoyances. Now is the right time to secure the special proposition offered to the readers of this paper by the Hercules Manufacturing Company, 141 17th St., Centerville, Iowa. This company make a surprisingly good offer on their genuine all-steel triple-power stump puller with a full three years' guarantee against breakage from any cause. As steel is advancing very rapidly in price the price of a Hercules stump puller is less now than it will be in a year's time. They have a special introductory offer to the first buyer in each locality which is really too good to be overlooked. Look up the advertisement on page 32 of this issue and write them.

A REAL MINERAL-SURFACED ROOFING.

The new mineral-surfaced type of roofing is one of the latest and best of labor-saving devices for the farmer. The old types of so-called "rubber roofing" were expensive and easy to lay, and became very popular on that account. But they required painting every two years or so to keep them from leaking. Amatite Ready Roofing, which is the most popular of the mineral-surfaced roofings, needs no painting or coating of any kind. After it is laid the farmer can leave it strictly alone, and it will continue to give him uninterrupted satisfactory service year after year. A sample of Amatite showing the real mineral surface can be secured without cost by addressing a post card to the nearest office of the Barrett Manufacturing Company, New York, Chicago, Philadelphia, Boston, Cleveland, Cincinnati, St. Louis, Pittsburgh, Kansas City, New Orleans and Minneapolis. See advertisement on page 39.

SWEAT PADS UNFAIR TO HORSES.

Most horse owners do not realize the utter uselessness of the ordinary hames and sweat pads used with horse collars. Since they have always been used most farmers think that a horse must have a soft cushion to pull against. This is not true. A sore shoulder is a useless expense. In hot weather horses naturally sweat and the pad rubs the hide off which has been softened by the moisture and heat held in by the sweat pad. Then, while still raw with the dirty pad pressing against the shoulder, salty sweat and all kinds of filth are rubbed into the sore place. This frequently causes a good horse to be laid up for two or three weeks at a time it is sorely needed. A hard, solid collar will keep the flesh of the shoulders hard and firm, as well as cool and dry. The Johnston-Slocum Company, 505 State St., Caro, Mich., have a zinc-coated metal collar known as the Everlasting Adjustable Hameless Horse and Mule Collar. One can be put on a four-year-old and he will use it until he is thirty. Look up the advertisement of this company on page 11 and send for their catalog.

ADVERTISING OREGON.

The Oregon Development League, an association of commercial clubs in Oregon, is carrying on what is probably the biggest publicity campaign of its kind ever conducted. Oregon is a great state with a tremendous future. It has vast untouched areas of agricultural land. The associated commercial clubs of Oregon are using only agricultural papers to attract settlers to their state. The value of the agricultural paper, they claim, lies in the fact that it brings its appeal direct to the man who is looking for new lands to conquer and not to the clerk or the man who has no individuality or initiative left. Many immigration companies use daily newspapers and magazines in an endeavor to persuade the city man to invest in their land. They secure a number of buyers because there is a decided tendency for mankind to return to the soil. In the belief that their proposition will appeal to the real farmer, the Oregon clubs are using the agricultural press.

WHAT THEY SAY ABOUT "UNO" COLLARS.

The opinion of the farmer who has used any article is always worth while. When the purchasers of any article uniformly speak highly of it it may be taken for granted that the article is one of great merit. This is particularly true of the "Uno" collar, manufactured by the Benjamin Young Company, of Milwaukee, Wis. Following appears the reports of a few farmers: "Dear Sir:—I am using several of your 'Uno' collars purchased from Mr. Anthony Heifron, Waverly, Minn., and have had to drive fifteen miles in order to get them. Have had no trouble with sore shoulders, and they are giving good satisfaction. (Signed) Thos. Graham, Howard Lake, Minn., R. F. D. No. 3." "Gentlemen:—One of my horses had two very bad sores on its neck, and I was unable to work a common horse collar on him. I bought a flexible top 'Uno' self-conforming collar of my harness dealer, Mr. Chas. Appel, and I am now working my horse every day. (Signed) T. Travis, Grant, Mich." "Dear Sir:—I am using two sets of your 'Uno' self-conforming horse collars with the best of success. Never had a sore shoulder since I used them. (Signed) John W. Wolf, Sullivan, Wis." "Dear Sir:—I have used one of your 'Uno' self-conforming horse collars for four years, and must say that they are all O. K. (Signed) J. M. Amundson, Epping, N. D." Numerous others

are in the office of the Benjamin Young Company, Dept. 55, Milwaukee, Wis. More information about these very successful collars can be learned from the advertisement which appears on page 34 of this issue.

10,000 MEN WANTED BY RAILROADS.

The cry of the railroads is for more and better men. It is estimated that there are positions open today in the various railroads of the United States for 10,000 efficient railroad men, including brakemen, firemen, electric motormen, conductors, etc. Competent men who have had training in this line are hard to find. The Wenthe Railway Correspondence School, of Freeport, Ill., is, in a sense, an official school, being operated by experienced railroad officials and gives what practically amounts to years of experience and enables any man of average intelligence in a short time and at almost no cost to be fitted for a good position at good pay. This school absolutely guarantees positions to its graduates who are mentally and physically competent and puts its guarantee on a legal bond. Look up the advertisement of the Wenthe Correspondence School, General Office 354, Freeport, Ill., on page 36 of this issue and write them, mentioning The Homestead.

WHAT THE FARMER DID.

When, during a certain period of the civil war, it was announced that the struggle was costing the national government a million dollars a day, there were many persons in the North who considered the case hopeless. No nation, they said, could meet such an outlay.

During the summer and fall just past there came up out of the ground in this country fourteen million dollars a day, for a period of one hundred and twenty days, in corn alone; and in all farm products, twenty-four million dollars a day for the whole three hundred and sixty-five days of the year. The secretary of agriculture is right when he says, "The value of the farm products is now so incomprehensibly large that it has become merely a row of figures."

Not only can no other nation in the world show anything like so great an income from the soil, but it is doubtful if ever, in history, any nation has known so rapid an increase, says the Youth's Companion. In ten years the value of the crops produced in the United States has almost doubled.

It seems now firmly established that corn, not cotton, is king. It not only leads all other crops in value, but is worth almost exactly twice as much as its nearest rival, cotton. This year's crop is the highest on record in value, but is slightly less in quantity than that of 1906.

The third in order of value among this year's crops is wheat. Next comes hay, then oats, potatoes, tobacco, sugar, barley, flaxseed, rice, rye and hops, in this order.

It is evidence either of the rapid increase of population or of a growing appetite—probably both—that in spite of the immense crops, the experts of agricultural products this year are less than they have been in several other years, and the imports greater. The reduction in exports appears particularly in live animals and meat products, cotton, grain and grain products, and tobacco.

THE COUNTRY'S FARM PRODUCTS

At current prices wheat will bring to the farmer for the year \$725,000,000, with \$665,000,000 for hay, \$400,000,000 for oats, \$212,000,000 for potatoes and \$100,000,000 for tobacco. These stupendous figures cannot be grasped by the ordinary intelligence. While the gold production of the year was the greatest in all the country's history, it fell a few millions short of the value of the tobacco crop, and was immeasurably exceeded by that of the wheat, cotton and corn crops. The production of all the cereals combined was greater in quantity for 1909 than for any preceding year except 1906, which broke several records in the bulk of the output. The higher prices now, however, give the farmer much more money for his work in 1909 than he obtained in 1906 or any other year. In noting these things Leslie's Weekly makes the following interesting comparisons:

The aggregate value of the country's farm products for 1909 would go much more than half way toward buying out the entire railway system of the country, with the accumulations of property of all sorts which have gathered through the years. The money which goes into the farmers' pockets for their labors for the twelve months amounts to a fourteenth of the value of all the country's property, and real and personal; and the wealth of the United States, it must

I'll Send You A \$7.50 Check if in need of a fanning mill

Write me today about it

The capacity of my factory has been taxed to the limit, my demand from Minnesota, North and South Dakota, for my great combination

FOSSTON Automatic Grain Cleaner & Corn Grader

but now I am in shape to supply the whole country.

Let me send you my new book and a check for \$7.50 good at my factory, or at your dealer on the purchase of a "Fosston" at regular price. You can try the "Fosston" for 30 days at my expense to prove that it is the machine you want. Send for the check and book today. A postal will do.

S. N. SORESENSEN,
President Fosston Manufacturing Co.
450 Cleveland Ave., St. Paul, Minn.

KING'S

\$50,000 Guaranteed Lightning Rods

Protect Your Life and Property

No other rods sold on this basis. No other rods so good as mine. King rods are so many public buildings, insurance companies and others who know favor mine because they are better. They are safe, certain and satisfactory. They are just what you should get. 98 per cent pure copper, 30 strands to the cable. All attachments the finest that can be made.

I Want 2000 More Agents
I want you if you're a hustler and acquainted in your territory. You may be a retired farmer, you may be thinking of renting your farm, or if you are a hardware or implement dealer it will pay you to investigate my proposition. It's fair and square and gives you an opportunity to make from \$1,000 to \$3,000 in a few months like my other agents.

Write For FREE Catalog
I'll send it at once with full particulars and prove that my rods are best and my proposition the squarest, most liberal of all. Do it now—today. Write a letter or post card.

Geo. M. King,
Pres., KING
MFG. CO., 600
Walnut St.,
Des Moines,
Iowa.

Send for Price List and Money-Saving Offer, Telling How to Get

GRAN. SUGAR 2½c LB.

All other groceries and general merchandise proportionately low, saving you 35 to 50 cents on the dollar. We pay freight to any city east of the Rockies, when full amount of cash is sent with order. **INLAND MERCANTILE CO.,** 5245-5247-K., Green Street, Chicago, Ill.

We Trust Farmers

BECAUSE our goods have merit. Send your address for free circulars of farm implements and handy things for the farmer. State how many acres of corn and oats you cultivate.

Wenzelmann Mfg. Co., Galesburg, Illinois.

be remembered, equals that of our two nearest rivals combined—Great Britain and Germany. The fairy tales contain no greater marvels than the story of the yield of the country's farms tells us, and the latter has the advantage of being based on solid and tangible fact.

It is said that the first horses imported into New England were brought over in 1629, or nine years after the landing of the Pilgrim Fathers. One stallion and seven mares survived the voyage. From this it will be seen that the first nine years of our history was a horseless "age" in New England. The colonists in Virginia differed from the sober-minded Puritans of New England in being fond of sport, loving fast horses and trying their speed on the race track. The horses imported were English hunters and racers. Fearnought, brought over in 1764, left his mark on a numerous progeny of uncommon beauty, size and speed.

Free Will Expression on Galloway Spreaders

Mr. William Galloway, of Waterloo, Iowa, recently secured a free-will expression from a large number of the purchasers of the spreader manufactured under his name in a unique manner. He sent to the publishers of various farm papers a list of their subscribers who had purchased spreaders during the last few months, and requested each of the publishers to write to the names on the list given them for the farmer's opinion of the Galloway spreader. Mr. Galloway is positive that this method secured an unfinanced expression from the users of his ma-



MR. WM. GALLOWAY.

chine. Following are published a number of testimonials which have been received in response to a letter mailed from this office to purchasers of the Galloway spreader as shown by the list sent in by Mr. Galloway. They speak for themselves and the reader is allowed to draw his own conclusions:

You wrote me a letter some time ago asking about the manure spreader I bought from Mr. Galloway last spring. The spreader worked well. It does nice work and it is simple. There are no gears to wear out nor break and one good thing about it is that it is driven from both sides so you can see that is one good point. Best of all you can lift the box and use the trucks for a low-down farm wagon. It is easy to load and any farmer who needs a spreader can't buy a better one. Yours truly, John C. Harper, Muscatine, Iowa.

I received your letter of November 2d, wishing to know how I liked the spreader that I bought of William Galloway Company. I bought a fifty-bushel spreader and will say that I like it first rate. Would not part with

it if I could not get another. Two small horses can pull it easily; it does good work and runs easy in coarse, heavy manure or fine rotten manure. One thing I wish to say is that if a person buys a spreader from Mr. Galloway he will do just as he agrees to do, or at least that has been my experience. Yours truly, Charles A. Sawyer, Hampton, Neb.

In answer to the enclosed request will say that the manure spreader has given me excellent satisfaction. Important points are its general simplicity. Yours respectfully, A. L. Baillis, Loup City, Neb.

I have a Galloway spreader and am well pleased with it and its work. I wouldn't take double what mine cost if I could not get another. Yours truly, C. M. Robinson, Madison, Mo.

With reference to the Galloway spreader will tell you with pleasure that it has proven satisfactory to me. The important point I see in it is its convenience; two horses are so much handier than if you have a little time out goes the manure. Mine was purchased without a truck. The spreader can be easily put on or off. I think it suits the man of moderate means who feels that he cannot afford the high-priced machines. The farmer with any amount of manure to put out should not be without one. It will shortly pay for itself. I believe that if I could get the higher-priced ones for the same price as the Galloway, I would do some thinking before exchanging. Very truly yours, Michael Lacey, Greeley, Neb.

In reply to your request of November 2d, will say that I am well pleased with the Galloway spreader No. 5. It is low down and easy to load. The gear is run from both hind wheels, dividing the strain and making it run true. The trucks are a regular wagon and wheel will stand true and run right for any length of time. Owing to its simplicity, there is nothing to get out of order and I don't have to haul a mile around the farm to spread the manure. The whole thing is substantial and I run it successfully with two horses. I think I got just what I bargained for. Respectfully, A. E. Bolton, Glidden, Iowa.

In reply to your request regarding the Wm. Galloway manure spreader, will say that we purchased one last fall and are very well satisfied with it. So far it has worked all right. Some points in its favor are that it is light and easy for two horses to handle and that by removing the box one has a good set of trucks for a hayrack or any other work where a low wagon is handy. Respectfully, Claude A. Barker, Pawnee City, Neb.

In reply to your letter of November 3d, requesting me to say what I think of the Wm. Galloway spreader, will say that I have had mine about a year and I am well pleased with it. The best feature about it is that you can use the trucks for hauling hay and can use the bed for hauling corn by taking off part of the machinery. I do not see now I ever got along without it for so long. I do not think there is a better spreader made.

Yours very truly, D. L. Parker, Schell City, Mo.

In reply to your request will say that the manure spreader I bought of the Wm. Galloway Company works to perfection, and I am well pleased with my purchase. It seems to be a durable machine, for I have used it heavy this summer; I have hauled and spread about 300 tons and can see hardly any wear on the spreader. Yours truly, G. Netemeyer, Albers, Ill.

Your letter of the 2d received and will say in reply that I purchased a Galloway spreader last June and I did not have time to try it then on account of my other work crowding me, but have used it to haul over 100 loads this fall, besides one of my neighbors using it to haul over fifty loads. He wants to buy one-half interest in it, but I would rather own it myself and lend it to him when he wants to use it; then I can use it when I want to and not feel that I am crowding out anyone else. It works fine; hauled most of mine out with a pair of two-year-old colts on level stubble land. My neighbor hauled his on the hills and said it pulled rather heavy for his team when going up hill in gear. His team weighs about 1,100 apiece. I think they are just the thing for the average farmer and handier than the larger ones that you have to use more horses to operate. Wouldn't think of parting with mine. Yours truly, W. J. Masters, Mapleton, Iowa.

I purchased a manure spreader last spring and it is all O. K. I hauled several hundred loads of manure and never had a minute's trouble with it. The ratchet wheel on the feed works like a block and the beater being driven from both rear wheels and two drive chains are far ahead of just one chain. Yours truly, Julius A. Milkey, Bradford, Ill.

Your letter of the 2d, inquiring about the Galloway manure spreader that I recently purchased, at hand. Will say in reply that the spreader works to perfection. It is an easy-pulling machine and I don't think there is an easier-pulling spreader on the market. It is the best investment I ever made. It spreads the manure to perfection if loaded right and will spread any kind of manure that is found on a farm. As far as mentioning important points, that is hard to do, as the spreader is complete in itself. One thing I would like to mention is that if there is any square and honest dealing you get it at the Wm. Galloway Company. Respectfully yours, A. G. Rembold, Hawkeye, Iowa.

I purchased a fifty-bushel size manure spreader of the Wm. Galloway Company last spring and after giving it a thorough test (having hauled over 100 loads) find it satisfactory in every respect. One thing in particular: two horses can handle it with ease. I would not take twice the price for mine if I could not get another one just like it. Yours respectfully, G. W. Mitchem, Montour, Iowa.

Replying to yours of the 2d in regard to the Galloway manure spreader, will say that I purchased a No. 1 fifty-bushel size and it gives perfect satisfaction. The points I consider superior to all others are: Light draft (two horses can handle it nicely); narrow track, enabling the top dressing of corn which cannot be done with the wide machines; simplicity of construction, not a cog wheel in it. It is sold at a price which puts it in reach of the small farmer. I would

recommend the purchase of trucks when getting the spreader, thus avoiding the necessity of taking it on and off the wagon. Yours truly, F. F. Benedict, South English, Iowa.

In reply to your letter would say that I am well pleased with the spreader that I bought from the Galloway Company. I believe it will do more than they really claim for it and I will say that the important points that impress me are the double drive chain and the detachable endgate. The endgate cleans the box out good and clean and the double drive chains make equal pressure on both sides of the box. There is no side draft. I believe the Galloway Company will do business on the square and exactly as they say. Yours respectfully, T. A. Booth, Hatfield, Mo.

We received our spreader in good shape and are well pleased with it. It is light in draft, and we think it is the best spreader we have seen yet. It will do all they claim it will. Yours truly, George Bickelhaupt, Seranton, Iowa.

I bought a spreader from Wm. Galloway in March and used it for about sixty loads of all sorts of manure and it handled it all right. It runs light and two horses will pull it with ease on hilly ground. Yours, Leonard Rigg, Macomb, Ill.

Your letter of the 2d inst, at hand. I intended writing last evening, but was tired and forgot it. Yes, siree! I purchased a spreader from Galloway last May and am more than pleased with it. I could mention several important points and I like all of them, but I will mention only a few. The machine is very substantially built, light draft, low down (making it easy to load), well proportioned and neat looking. The force feed is a very important feature. You can easily throw the machine in and out of gear with one hand without stopping the team. It cost me \$25 less money than I would have had to pay for another spreader that I don't like. Sincerely yours, L. B. Harkless, Bedford, Iowa.

In answer to your inquiry concerning the Galloway manure spreader I would say that it is perfectly satisfactory and does perfect work. It does it much easier than some of the heavier machines I have seen and it seems to be very strong and durable. I have hauled nearly 300 loads with it with no trouble or expense and I see no weak places. A number of my neighbors have seen it work and have expressed a desire to own a Galloway. Very truly yours, J. R. Strauser, Plainfield, Iowa.

I am pleased to answer your letter received yesterday. I like Wm. Galloway's spreader very well and will give a few reasons why I do. There are no cog wheels. They are lower down than the other kind, and when the machine is out of gear, drive chains are still and not running and they are lighter draft. The spreader works good now and suits us better than the others we have tried before we got this one. The pulling is not on the box, but is on the coupling pole under the box, which is a good thing. When I got the spreader I broke two things that were defective and Mr. Galloway replaced them all free of charge, which he said he would do; now I call that a square deal. Mr. Galloway is a square dealer. Thanking him for the good he has done, I remain, very truly yours, Bert Hartman, Sigourney, Iowa.

Friends—Tell Me Your Power Needs

SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horsepower from a real engine factory. Save dealer, jobber and catalogue-house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason; I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. Come to Waterloo and see it. I sell them direct to you for less money than some factories can make them at actual shop cost—I make so many. All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

Anybody can afford and might just as well have a high-grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for in carload lots for spot cash. An engine that is made so good in the factory that I will send it out anywhere in the U. S. without an expert to any inexperienced user, on 30 days' free trial, to test against any engine made of similar horsepower that sells for twice as much, and let him be the judge.

INFORMATION YOU WANT TO KNOW

Here's how the other fellow answers your questions. I have hundreds of original letters like these—A lot more also in my Engine Book. Get it.

How About Cold Weather?

My engine came O. K., goes O. K., I like it O. K., and it is O. K. The engine I had last winter I had a dread of starting it in the morning, but this one is a pleasure; for, instead of 1 barrel of water, 2 pails does the job. I advise anyone wishing an engine to try the Galloway, as it costs nothing to try, according to their terms. W. F. Jennings, Chippewa Falls, Wis.

Is It Powerful and Economical?

When words cannot express a man's thoughts he

is up against it. I think you have the best engine on the market for the money. It is easy to start; it is simple; it is powerful, and it is a smooth-runner. I or no other man knows the worth of an engine till he has used one. I would not think of being without one at any price, and, if I was buying a dozen, they would be Galloways. On the coldest morning, all I have to do is to turn the gasoline on, throw the switch on and turn half over—and are gone. My brother used to sell fair engines and he was up to my place. He said my 5-H.P. Galloway beat anything he ever saw.

Anybody doubting this testimony, I would be glad to hear from them. E. J. Oliphant, Dodge City, Kans., R. No. 1.

Is It Simple and Easy to Start and Run?

I find the 5-H.P. engine that I purchased from you to be all that you claimed it to be. Without previous experience, I have no trouble in operating it, while several of my neighbors, with other makes of engines much higher priced, have to call in experts frequently to put them in order. I certainly would not trade it for any engine I ever saw run. E. Loomis, Gibbon, Neb.

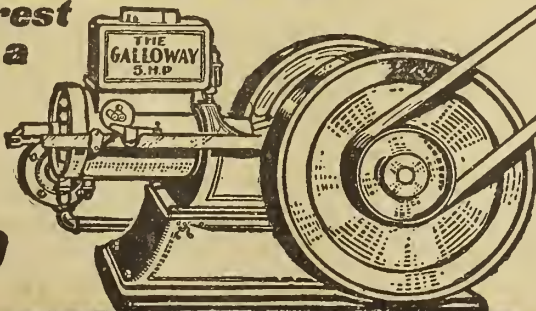
Galloway

Keep the \$100 That I Save You at Home in Your Own Pocket—That's as Near Home as You Can Get.

Sell your poorest horse and buy a

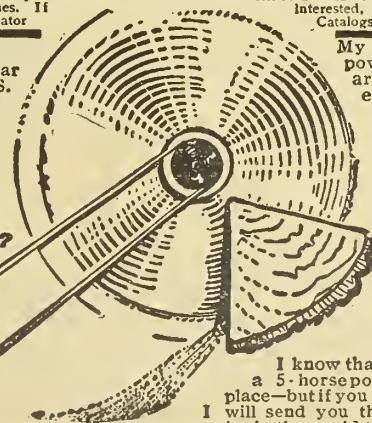
5-H.P.
—Only

\$119.50



Cut out this Coupon and mail to me now!
FREE
BOOK
Proposition direct from your factory to me.

Name.....
Town..... State.....
IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. I also make the famous Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader. Also the Galloway Cream Separator. All sold on same direct plan as my Gasoline Engines. If interested, ask for my Spreader or Catalogs—FREE.



My prices for any horse-power engine you want are way below anybody else's—and you get the very highest quality in every Galloway machine.

2-Horsepower Galloway Gasoline Engine \$59.50

I know that it pays best to have a 5-horsepower engine on your place—but if you want a 2-horsepower, I will send you the best 2-horsepower engine in the world today, and you are the judge on my 30 days' free trial.

GASOLINE ENGINES

Direct to You on 30 Days' Free Trial

How Galloway Engines Save and Make You Money—Their Uses

1. On the Farm—Power for so many kinds of work that they practically save a big share of your hardest labor—and solve the "hired help" problem most of the year.
2. Cream Separator—Run it twice a day, or 730 times a year. Think that over for the women's sake and your own.
3. Churning—Saves all the hard work.
4. Wash Machine—Every week—it saves the woman's work.
5. Grindstone—Saves one man's time turning.
6. Shelling, Shredding and Feed Cutting, besides running the Fanning Mill, etc., etc.
7. The Elevator and Silo—Galloway furnishes the power.
8. Sawing Wood—See Galloway's outfit and description at the right, here.
9. Pumping—Power instead of "back work" or the windmill—no matter where your water comes from, you will thank Galloway for this suggestion.
10. Spraying Machines—Cheapest, handiest way to run.
11. Many Other Ways—explained on pages 10 and 11 and all through my Big Free Gasoline Engine Book—Free to you if you send your name to Galloway. Do that right away and see about them with hundreds of illustrations from farms and factories. Write today.
12. Grinding—Are you paying toll to some other man? Why not buy a Galloway and grind all your own feed? You'll be astonished to see how much you have been losing.

Write Galloway—That's the best use you can make of your time right now, while it's on your mind.

Get Galloway's Biggest and Best **FREE GASOLINE ENGINE BOOK**. Write today for my beautiful, new 50-page Engine Book in four colors; nothing like it ever printed before; full of valuable information, showing how I made them and how you can make more money with a gasoline engine on the farm. Write me—**Wm. Galloway, Pres.**

THE WILLIAM GALLOWAY COMPANY OF AMERICA
Authorized Capital, \$3,500,000.00. 105 Galloway Station, Waterloo, Iowa

NEWS OF THE SALE RING

SWINE breeders of the great central West who held sales last week were favored with the very best of winter weather, and as the result of these favorable conditions nearly every sale that it is our pleasure to report was well attended. Furthermore, they were attended by men bent on laying in some good foundation stock. There was a big range in prices, but there was no boom in the air. Even the \$352.50 sow sold by S. E. Morton & Co., of Dayton, Ohio, was considered to be well worth this figure. Next to this was the \$340.00 Duroc sow sold by Mr. Ira Jackson, another case where the purchaser got value for his money. It mattered not whether a sale averaged \$40 or twice that sum, the breeder in every instance expressed a feeling of satisfaction because he knew that the animals he disposed of would go right on and make their purchaser money. Blood lines have always told in the past and they will in the future, and it is largely a matter of blood that makes the difference between the average of two sales on the same breed. Fortunately, the good blood has fallen into good hands in most instances and the individuality is keeping up with the reputation of the noted animals of former days. Brood sow sales for the year 1910 will soon be over and the outlook for the purchasers was never brighter. With top market hogs close up to a nine-cent market and with a known shortage in the supply, values must remain on a firm basis. Men who are going in the pure-bred business for the first time have taken a good time to get in, because with such values as have been realized during the season there can be no money lost, and on the other hand, there is every reasonable possibility of each purchaser netting a most satisfactory profit.

THE CANTINE DUROC JERSEY SALE.

The Duroc Jersey sale of Mr. H. L. Cantine, at Quincy, Iowa, on February 4th, was not largely attended, but everything was disposed of at an average of \$38. Mr. J. F. Smith, of Victor, Iowa, secured No. 51 at \$150, she being the top of the sale. Among the buyers were Edmonds, Shade & Co., Kingsley, Iowa; Owen Davis, Audubon, Iowa; Len Lemar, Storm Lake, Iowa; James Williams, Marcus, Iowa; W. L. Smith, Avoca, Iowa; C. E. Walden, Washta, Iowa; M. S. Moats & Son, Missouri Valley, Iowa; John Tryon & Sons, Lyons, Neb.; Charles Adams, Holstein, Iowa; W. L. Hull, Logan, Iowa.

THE LARSON DUROC SALE.

Forty head of sows, most of which were spring gilts, in the O. S. Larson sale, held at Logan, Iowa, sold at an average of \$37.87. The crowd was not large, but everything was disposed of at fair prices. The range of prices was very even, there being nothing high nor low. Col. Frank Luther cried the sale. Below is a partial list of buyers. Colonel Igleheart and assistants conducted the sale: W. L. Hull, Logan, Iowa; Frank Hill, Logan, Iowa; E. B. Ryan, Neola, Iowa; J. J. Armstrong, Logan, Iowa; August Haeger, Avoca, Iowa; I. E. Hunt, Logan, Iowa; A. E. Swanson, St. Edwards, Neb.; D. C. Morris, Logan, Iowa; E. E. Brown, Logan, Iowa; and Floyd Knapp, Redfield, Iowa.

C. W. PHILLIPS SELLS THIRTY-NINE POLANDS.

Mr. C. W. Phillips, of New Sharon, Iowa, sold thirty-nine head of Poland China sows on the 9th of February, at an average price of \$32.10. Prices ranged from \$18 up to \$98. The latter price was paid by Messrs. Jackson Bros., of Montezuma, Iowa, for the March gilt by Jumbo G. B. The average maintained at this sale was not in keeping with the high quality of the offering. They were entitled to more than was paid for them. Among the prominent buyers were M. T. Jackson, Montezuma, Iowa; N. Burbank, New Sharon, Iowa; E. N. Riddlebarger, Dysart, Iowa; D. H. Paul, Laurel, Iowa; F. A. Lloyd, Oskaloosa, Iowa; and Robert Lockhart, New Sharon, Iowa.

WATT & FOUST DUROC SALE.

The sale of Messrs. Watt & Foust, at Dayton, Ohio, on February 8th, was very successful. Mr. E. W. Davis, of Glendale, Mo., bought the top of the sale at \$180. Ohio, Indiana and Kentucky took most of the offering. Colonel Igleheart and assistants made a good sale by hard work. Fifty-six head in this sale netted the grand total of \$3,184.50, or an average of \$56.95. A partial list of the buyers includes H. Spuhr, Lexington, Ky.; T. A. Kramer, London, Ohio; J. A. Middleton, Shelbyville, Ky.; M. O. Connell, Cedarville, Ohio; C. J. McLaughlin & Co., Pleasantville, Ohio; Unger & Alter, Forrest, Ind.; G. M. Kinnegan, Hamilton, Ohio; J. C. Alexander, Midway, Ky.; Thos. Johnson & Son, Columbus, Ohio; Elmer Parker, Old Ford, Ohio; H. L. Martin, Midway, Ky.; G. C. Holloway, Nicholasville, Ohio; J. B. Res, Kokomo, Ind.; A. H. Alter, Parr, Ind.; Geo. W. McKnight, Howell, Ky.; Miller, Decatur, Ind.; W. B. Penry,

Radnor, Ohio; W. B. Oline, Camden, Ohio; J. C. Smith, Xenia, Ohio; O. F. Fuson, Lewistown, Ohio; W. H. Robbins, Springfield, Ohio.

THE COCKERTON POLAND CHINA SALE.

Quite a good crowd of breeders and farmers from Iowa, Nebraska and Dakota attended the James Cockerton sale at Whiting, Iowa, on February 9th. Forty-five head were disposed of at an average of \$41.30, the top being \$82.50 for No. 8 of catalog, which went to Mr. O. O. Huff, of Arcadia, Neb. Mr. Jerome Summy, of Ponca, Neb., secured No. 1 at \$80, and she was also a splendid bargain. It was an even run of prices, there being nothing high and nothing low. Col. James P. Jensen, of Newell, Iowa, cried the sale and did excellent work. Some of the buyers were J. A. Sumpter, Sloan, Iowa; C. C. Polly, Whiting, Iowa; A. T. Jepson, Moorehead, Iowa; F. T. Bigelow, Whiting, Iowa; W. C. Whiting, Whiting, Iowa; A. J. Ernst, Sloan, Iowa; C. W. Neal, Moorehead, Iowa; George Merrill, Moorehead, Iowa; E. Weaver, Hironick, Iowa; J. B. Keller, Spirit Lake, Iowa; A. J. Larson, Whiting, Iowa; J. S. Crawford, Whiting, Iowa; N. J. Nicholson, Rodney, Iowa; O. P. Woodward, Rodney, Iowa; I. B. Thompson, Whiting, Iowa.

WHITEHALL'S GREAT DUROC SALE.

A grand Duroc sale was that held at Whitehall Farm, Yellow Springs, Ohio, on February 7th. It was a fine offering and was distributed throughout seven states. Mr. S. E. Morton, of Camden, Ohio, secured the two top sows of the sale at \$300 and \$175 respectively. Whitehall Farm, under the able management of Mr. J. E. Drake, has become noted throughout the country as headquarters for high-class Duroc Jerseys. The sale was very successful and highly satisfactory to the sellers. Colonels Reppert, Igleheart and assistants conducted the sale in a satisfactory manner. Sixty head sold for an average of \$62.95 and every buyer in this sale got good value for his money. The list of buyers included, among others, J. E. Smith, Victor, Iowa; Geo. B. Buck, Sunny Hill, Ill.; Chas. E. Lyman, Maroa, Ill.; C. C. Cushman, Chillicothe, Ohio; Geo. W. Balda, Bryant, Ind.; Watt & Foust, Cedarville, Ohio; H. Spuhr, Lexington, Ohio; Ira Jackson, Tippecanoe City, Ohio; D. O. McKinley, Orient, Ohio; J. S. Fink, Jeffersville, Ohio; S. E. Eakle, Prophetstown, Ill.; E. C. Stemen & Son, Middlepoint, Ohio; Menaugh Bros., Mazza, Ill.; H. S. Neff, Oshorn, Ohio; Hanks & Bishop, New London, Iowa; Chas. Alheit, Lewistown, Ohio; H. G. Terrill, Belfontaine, Ohio; Thos. Johnson, Columbus, Ohio; Wm. Shultz, Schuyler, Neb.; A. Gerlaugh, Oshorn, Ohio.

THE R. W. HALFORD POLAND CHINA SALE.

Mr. R. W. Halford, of Manning, Iowa, sold forty head of Poland China brood sows on the 11th of February at an average of \$50.12. It may be considered a good sale with a very even range of prices, \$31 being the low point and the top \$77.50. It was an even offering reflecting credit on the breeder. Among the buyers were James Wilsou, Manning, Iowa; J. H. Frazier, Manning, Iowa; J. R. Miller, Iowa; J. G. Gallman, Van Horne, Iowa; J. H. Stammer, Manning, Iowa; A. M. Stine, Adel, Iowa; A. H. Long, Harlan, Iowa; C. E. McLaughlin, Gray, Iowa; G. H. Maerker, Sumner, Iowa; O. S. Welch, Gray, Iowa; H. W. Sievers, Audubon, Iowa; J. H. Fitch, Lake City, Iowa; Robt. Davis, Defiance, Iowa; John B. Lawson, Clarinda, Iowa; Hendrickson Bros., Battle Creek, Iowa; G. H. Mendenhall, Audubon, Iowa; Frank McLaughlin, Coon Rapids, Iowa; M. B.

Conroy, Arion, Iowa; Chas. Butler, Clarion, Iowa; A. G. Brown, Hartford, S. D.; Chas. Escher, Sr., Botna, Iowa; D. Lewis, Gray, Iowa; L. Williams, Dawson, Iowa; J. P. Larimore, Kinderhook, Ill.; F. Moosevelt, Manning, Iowa; H. J. Hemerling, Dike, Iowa; R. W. Nellis, Botna, Iowa; Fred Drear, Gray, Iowa; C. H. Carlisle, Manning, Iowa; Chas. Rocksien, Manning, Iowa; E. G. Wright, Shelbyna, Mo.; E. S. Poiteveau, Dow City, Iowa.

SAM STEWART'S DUROC SALE.

The sale of Messrs. Sam Stewart & Sons, at Kennard, Neb., on February 9th, brought forth a good crowd and thirty-seven head sold for \$2,386, or an average of \$62.78. It was a good offering and buyers seemed particularly anxious to secure sows bred to their young boar, I Am Perfection Wonder. The first-prize state fair sow, Elberta, topped the sale at \$135, going to H. P. Slocum, of Blair, Neb. One of the best gilts in the sale was No. 37, a daughter of Echo Top King, and she was secured by Mr. J. C. Stahl, of Bloomfield, Neb., at \$90. It was one of the best sales this firm have ever made. Colonel Luther cried the sale. A partial list of buyers includes Floyd Knapp, Redfield, Iowa; Fred Rennard, Arlington, Neb.; Delmar McCann, Kennard, Neb.; Wm. Wilson, Blair, Neb.; W. L. Hull, Logan, Iowa; Ernest Petticord, Perry, Iowa; O. S. Larson, Logan, Iowa; G. E. Samuelson, Osceola, Neb.; Gus Reeh, Kennard, Neb.; J. D. Aiken, Kennard, Neb.; E. Barton, Blair, Neb.; H. H. Koenig, Dewitt, Iowa; Gilbert Van Patten, Sutton, Neb.

PAUL'S POLAND CHINA SALE.

On the 8th of February, Mr. F. G. Paul, of Marshalltown, Iowa, held a very successful sale of Poland China brood sows. Forty-one head were disposed of at an average of \$54.08 each. A very even range of prices ruled, the low figure being \$28 and the top of the sale, \$140. Mr. Walter Smith, of Melbourne, Iowa, paid the latter price for an April 12th gilt by Balanced Jumbo. Among the buyers were W. H. Cooper, Hedrick, Iowa; C. W. Phillips, New Sharon, Iowa; J. R. Ballard, Ames, Iowa; Jesse Binford & Sons, Marshalltown, Iowa; Harry Lundstrom, Marshalltown, Iowa; David Ferguson, LeGrand, Iowa; D. H. Paul, Laurel, Iowa; B. B. Walrath, Arlington, Iowa; A. J. Manning, Stanley, Iowa; J. Speas, Gilman, Iowa; B. R. Bohnstedt, Victor, Iowa; Charles Dunham, Marshalltown, Iowa; J. Muckler, Newbury, Iowa; J. C. Lloyd, Marshalltown, Iowa; Howard Eckles, Marshalltown, Iowa; D. H. Jacobson, Gilman, Iowa; C. H. Benson, Marshalltown, Iowa; W. A. Jones, Clemons, Iowa; Cahill Bros., Rockford, Iowa; D. M. Leach, Ackley, Iowa; W. H. Mallin, Tama, Iowa; Geo. H. Clafin, Orland, Ind.; J. C. Bailey, Marshalltown, Iowa; Ross Tweed, Marshalltown, Iowa; J. T. Maloy, Alhion, Iowa; W. T. Goff, Marshalltown, Iowa.

THE IRA JACKSON DUROC SALE.

Mr. Ira Jackson, of Tippecanoe City, Ohio, held a most successful Duroc Jersey sale on February 9th. His offering was a select one and indeed far above the average of the current brood sow sales. Buyers were specially eager to get sows bred to Cherry King. E.

W. Foster, of North Hampton, Ohio, paid \$340 for No. 26, while Maddock Bros., of New Paris, Ohio, paid \$240 for No. 22. Something like twenty head sold for upwards of \$100, and every individual sent through the ring was a bargain. The average of the entire offering was \$90.96. Among the buyers were Chas. Cooper, Ferris, Ill.; Thos. Johnson & Son, Columbus, Ohio; C. J. McLaughlin Company, Pleasantville, Ohio; R. J. H. Spuhr, Lexington, Ky.; Ambrosia Schrum, Salem, Ind.; Bardwell & Barnard, McHenry, Ky.; S. E. Morton, Camden, Ohio; Whitehall Farm, Yellow Springs, Ohio; H. L. Martin, Midway, Ky.; C. C. Cushman, Chillicothe, Ohio; J. A. Middleton, Shelbyville, Ky.; D. O. McKinley, Orient, Ohio; Henry Matern, Loston, Ill.; Mahan Bros., Osborn, Ohio; I. J. Lorton, Union City, Ind.; Carl Scott, Selma, Ind.; C. H. Drury, Irvington, Ky.; Arthur Gerlaugh, Osborn, Ohio; H. E. Heron, Hartford City, Ind.

POLAND SALE OF W. H. COOPER.

Mr. W. H. Cooper, of Hedrick, Iowa, made a banner sale of Poland China brood sows on the 10th of February. Fifty-nine head went through this ring for \$3,952.50, on an average of \$66.99 each. There were thirty-seven buyers present, and there was a larger general attendance than had ever been held in the vicinity. Mr. Geo. F. Marshall, of Monroe, Iowa, topped the sale by buying Wonder Girl 3d, a four-year-old sow, for \$135. The low point of the sale was \$55. The list of buyers includes J. I. Drip, Mt. Vernon, Iowa; E. J. Fritz, Brighton, Iowa; J. G. Gallman, Van Horne, Iowa; C. S. Spicer, Smithshire, Ill.; G. H. Clafin, Orland, Ind.; George Duke, Hedrick, Iowa; Matt Beck, Hedrick, Iowa; C. B. Baldwin, Farson, Iowa; H. S. Davis, Edylville, Iowa; W. E. Callahan, Seaton, Ind.; C. W. Phillips, New Sharon, Iowa; J. G. Long, Harlan, Iowa; M. L. Mahaffy, Morning Sun, Iowa; I. O. Tritt, Urhuna, Ohio; E. D. Keasy, Wiota, Iowa; A. D. Jones, Richland, Iowa; G. E. Johnson, Chillicothe, Iowa; Cox & Hollinrake, Keithsburg, Ill.; R. D. Nordyke, Richland, Iowa; F. M. Linebaugh, Havana, Ill.; C. R. Long, Okmnlgee, Okla.; W. B. Nash, Kirkville, Iowa; J. R. Wallace, Williamsburg, Iowa; T. L. Gordon, Webster, Iowa; Boyd Douglas, Hedrick, Iowa; W. S. Austin, Dumont, Iowa; O. A. Haney, Lone Rock, Wis.; C. D. Barnett, Delta, Iowa; H. L. Pritchett, New London, Iowa; Wm. Dailey, Pardeeville, Wis.; T. S. Patten, Albion, Iowa; W. E. Callahan, Seaton, Ill.; F. G. Paul, Marshalltown, Iowa; Geo. T. Jackson, Montezuma, Iowa; J. E. Hottle, Seaton, Iowa.

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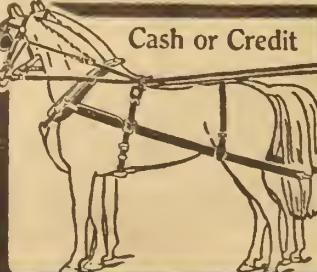
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S. E. MORTON'S GREAT SALE.

The sale of Duroc Jerseys held by Messrs. S. E. Morton & Co., at Dayton, Ohio, on February 10th, was a grand success and only a fitting tribute to a man who has done so much for the breed. C. C. Cushman secured a great show prospect in a Premier Col. gilt at \$352.50. J. E. Smith, of Victor, Iowa, was a buyer of the good ones. Colonel Igleheart made an opening address that was a credit to him. The average of the entire offering was \$83.07. Below we give a number of the buyers: Cahill Bros., Rockford, Iowa; Frank Votiska, Pawnee City, Neb.; G. W. McKnight, Howell, Ky.; J. W. Gillock & Son, Nashville, Tenn.; Morton & Curtis, Fletcher, Ohio; Dr. R. E. Jones, Gomer, Ohio; Ira Jackson, Tippecanoe City, Ohio; R. L. Comer, Carlinville, Ill.; J. C. Alexander, Midway, Ky.; E. W. Davis, Glenwood, Mo.; C. B. Ross, Blanchester, Ohio; A. P. Adair & Sons, Paris, Ky.; Wm. Kepler, Winfall, Ind.

J. B. DAVIS' GOOD DUROCS SOLD BELOW THEIR VALUE.

Only a few breeders turned out to the sale of Durocs held by Messrs. J. B. Davis & Son, of Fairview, Kan., on February 9th, and these few saw some as good Durocs as have sold this winter sold at prices that were low considering the quality and the breeding. The top of the sale was \$57, paid by Mr. A. B. Lineberry, of Hale, Mo., for Lot 4, a J. B.'s King of Col. gilt. Mr. Lineberry could not resist these good gilts and took Lot 3, a litter sister to Lot 4, at the bargain price of \$45. Ward Bros., of Republic, Kan., secured Lot 5, another litter sister, at \$41. Dr. J. Jay Boyd got a decided bargain in Lot 1, another J. B.'s King of Col. gilt. The general average was \$35.33 and every hog sold. Mr. Davis also sold two good Red Polled bulls, one selling for \$102.50, the other for \$95. Col. C. H. Marion, of Falls City, Neb., cried the sale, but labored under difficulties of such a severe cold that he could scarcely talk. Following is a partial list of the buyers: Dr. J. Jay Boyd, Reeds, Mo.; A. B. Lineberry, Hale, Mo.; Ward Bros., Republic, Kan.; J. B. McConnell, Baker, Kan.; Wm. Hutchinson, Cleveland, Mo.; Geo. Myers, Fairview, Kan.; F. Halderman, Hamlin, Kan.; E. Zimmerman, Hiawatha, Kan.; J. L. Crow, Fairview, Kan.; Dan Crews, Fairview, Kan.; Danl. Giffen, Pawnee City, Neb.; Wm. Anderson, Fairview, Kan.

CROCKER'S TOP NOTCHER AGAIN—HOGATE'S MODEL SALE.

Mr. F. C. Crocker, of Filley, Neb., made a successful sale of Duroc Jersey bred gilts on February 3d, selling fifty-three head for an average of \$33.65 per head, all gilts. The top price of the sale was \$67.50, paid by Messrs. Drybread & Baker, of Elk City, Kan., for Lot 1, a Top Notcher Again gilt out of an Orion dam, bred to Hogate's Model. No. 11 brought \$65, the next top price, going to Mr. A. F. Russell, of Savannah, Mo. Mr. Jas. Diddard, of Bladen, Neb., secured a choice gilt in No. 14 at \$62.50. Among the buyers were W. T. Fitch, Minneapolis, Kan.; S. G. Richards, Sturgeon, Mo.; Reese & Martin, Broken Bow, Neb.; E. C. Tilton, Filley, Neb.; R. C. Beechler, Reynolds, Neb.; Frank Tilton, Filley, Neb.; C. A. Stevens, Beatrice, Neb.; Geo. M. Hammond, Manhattan, Kan.; Ira F. Clark, Beatrice, Neb.; H. C. Demaree, Roca, Neb.

THE GODDARD DUROC SALE.

A good crowd of breeders and farmers attended the sale of Mr. John Goddard, at Harlan, Iowa, on February 7th, and forty head of the catalog averaged \$46.91. Mr. Goddard sold quite a number of extras, which the farmers took at good prices after the rest of the offering was disposed of. The top was \$102 for a March gilt by Golden Model 2d, and she was bought by Mr. Chris Rasmussen, of Harlan, Iowa. Mr. Tom Isaac and his brother, Mr. J. D. Isaac, of Red Oak, Iowa, were the best buyers of the best sows in the sale and secured eight head of the tops. The following well-known breeders were among those who made purchases at this sale: H. M. West, Manilla, Iowa; August Hager, Avoca, Iowa; S. E. Bakle & Son, Prophetstown, Ill.; Madison Spencer, Audubon, Iowa; J. D. McDermott, Wiota, Iowa; Henry Schier, Earling, Iowa; James Williams, Marcus, Iowa; J. B. Ashby, Audubon, Iowa; A. B. Peleison, Pocahontas Center, Iowa; R. L. Edwards, Walnut, Iowa; C. E. Lewis, Harlan, Iowa; A. P. Alsin, Boone, Iowa; Theo. Schmery, Earling, Iowa; Hahn & Adams, Harlan, Iowa; Waltemeyer Bros., Melbourne, Iowa.

W. W. WHEELER'S HEREFORD SALE.

Mr. W. W. Wheeler, of Harlan, Iowa, made his dispersion sale of Wheeler table-backed Herefords, February 10th. The consignment was an excellent one, subject to the criticism that the better cows were quite well advanced in age. They represented, however, the most desirable lines of breeding, and there was, therefore, a lively competition for them. Prices ranged from \$80 to \$330. Mr. Henry Strante, of Paullina, Iowa, paid \$330 for the cow, Imp. Quince, with calf at foot. He also bought six others of the more choice ones in the lot. Mr. P. H. Young, of Valentine, Neb., bought six head. Mr. E. W. Kreicher, of Mt. Vernon, Iowa, bought seven head. Mr. J. C. McNaire, of Wood Lake, Neb., bought four head. His purchases average higher than any other buyer in the sale. Other buyers were John Buchtela, Central City, Iowa; F. A. Bishop, Pella, Iowa; A. Bauchner, Clare, Iowa; Peter B. Bly, Radcliffe, Iowa; E. Frederickson, Harlan, Iowa; Hanson Bros., Williamsburg, Iowa; Hann & Mayne, Harlan, Iowa; J. J. Hedge, Oakland, Iowa; J. S. Maine, Harlan, Iowa; J. P. Olson, Newhall, Iowa; John O'Connors, Rippey, Iowa; J. F. Stoker, Yorkshir, Iowa; H. E. Tirks, Council Bluffs, Iowa; Tirks Bros., Council Bluffs, Iowa; Venjhon Christopher, Wisner, Neb.; and Virgil Waterbury, Harlan, Iowa. Forty-seven lots were disposed of at an average of \$142.46. The herd bull, Beau Donald 72d went for \$225 to Mr. McNaire.

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You cannot equal our "Interlock" fencing for strength or durability. It is not welded or wrapped, but interwoven. (See cut).

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HACKNEY MANUFACTURING COMPANY, 406 Germania Life Bldg., ST. PAUL, MINN.

500 FARMER Agents Wanted

to sell the best Lightning Rods and Fixtures made in the country. Cable has spiral center giving greatest possible surface conductivity. Guaranteed 98 per cent pure copper. Fixtures good as money can buy. Our prices are low and will enable any intelligent, industrious farmer to

Make Big Money Selling Our Lightning Rods

You know your neighbors. They know you and have confidence in you. No business offers the chances to make money like this. Our prices enable you to ignore all competition. Write us today for our liberal offer to farmers. Remember—we want farmer agents to represent us. We help you make money. They are the boys for us.

Iowa Lightning Rod Co., 200 Main St., New Hampton, Ia.

WHEN BUYING A CORN SHELLER

Insist on Clean Shelling, Thorough Separation, Large Capacity and Lasting Qualities. These are Distinctive Features of

The NEW HERO

2-hole and 4-hole Custom and 2-hole Farmers' Positive Force-Feed Shellers

They have Chilled Working Parts and other points of strength and convenience. We make Horse Powers, Wood Saws, Huskers, Farm Trucks, Manure Spreaders, etc. We guarantee our Goodhue Wind Mills for five years.

APPLETON MFG. CO.,
39 Fargo Street Batavia, Ill., U. S. A.

Write to-day for Free Catalogue.

SUCCESS OF INTENSIVE FARMING.

An inconspicuous citizen of foreign birth living near Pawnee City, Neb., is demonstrating to the department at Washington how to practice what is known as "intensive farming" successfully. His name is Arnold Martin and he went to Pawnee City ten years ago from Switzerland without a cent. All he knew was farming. He went to work as a farm hand and in three years managed to save up \$275. Then he started out for himself. Now he supports his family and saves \$1,000 each year. An expert sent out from Washington to investigate Mr. Martin's system, in a bulletin issued by the agricultural department, tells farmers all over the country how the Nebraska man manages things so successfully on the plot of ground which he calls his "farm." The general impression is that a man must farm at least 160 acres in order to make money. Mr. Martin's farm contains twenty acres, which he considers enough land, if farmed rightly, for one man. He looks upon 320 acres as a misfortune and regards 640 acres as a downright calamity.

Mr. Martin found his twenty acres. It was rocky and not worth farming—so the owners of the surrounding farms declared. As proof of the poor quality of the land, Martin paid only \$12.50 an acre for it, while surrounding land was worth from \$50 to \$70 an acre. The new purchaser paid just \$100 down and gave a mortgage for the balance. The remainder of his money he used to buy farm implements and live stock. His neighbors used to laugh at the young farmer and nicknamed him "Hazelbrush," but they now admit that he is making more money off his twenty acres than they are on their 160 acres. He does not want any more land, but wants to farm what he has better than he does now. While Mr. Martin raises a certain amount of fruit, his principal crops are the usual farm crops of Nebraska—corn, potatoes, wheat, alfalfa, etc. Not a foot of the twenty acres is permitted to remain idle and two and three crops of something or other are raised on every acre every year.

So successful has the young farmer been that today, seven years after he purchased his little farm, he is entirely out of debt, has a good house, fine barns, cash in the bank, and a standing offer of \$2,500 for his twenty acres of ground. Last winter he spent three months in Switzerland, and for the last three years he has been to the Colorado mountains every summer on pleasure bent. Says the government bulletin:

The intensive methods pursued by Mr. Martin are of particular interest. The land is kept busy from spring until fall. At the last cultivation of potatoes corn is planted between the rows. A full crop of potatoes and a fair crop of corn is produced from the same ground. As many as 700 bushels of potatoes and seventy-five bushels of corn are produced from each acre planted this way.

After the potatoes ripen the corn keeps the weeds down. By the time the corn needs the ground the potatoes are ripe and the corn is in the shock before it is time to dig the potatoes. Some parts of the potato patch are sowed with millet and sorghum just before the last cultivation. This makes a good crop of feed and does not hurt the potatoes. Squashes are sometimes planted in the same way. The onion patches grow corn and mel-

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

COME TO Southern Minnesota, Jackson County, where land is adapted to small grain, corn, stock raising and dairying; healthful climate, schools, churches, daily mail; where land is steadily advancing in price. You cannot lose, but gain, with such conditions. 80 acres 5 miles from town, under cultivation; no buildings. Price, \$55 acre. 160 acres, 8 miles from town; improved; fence, house, barn, granary, crib, hen house, windmill, grove; a snap at \$55 acre. 320 acres, 6 1/2 miles from town; well improved; all fenced; mostly tiled; house; fine, big barn; granary, corncrib, henhouse, other buildings; abundance of water; windmill; choice land; first class farm; \$70 acre. Address K., care of this paper.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$5 per acre; only one-fortieth cash, 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands, J. J. Snyder, School Land Locator, 505 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

FULL SECTION, Kildner County, North Dakota; lies well; good soil; improved farms on two sides; \$11.50 per acre; worth \$16; easy terms. Kane-Kober Company, St. Paul, Minnesota.

SEND US your property; we will put you in touch with 500 parties wanting to exchange. Western Exchange, Suite 311 and 312, Scott Thompson Bldg., Oklahoma City, Oklahoma.

STOP RENTING—Buy a farm in Stanley or Hand County, South Dakota. Prices, \$15 to \$35 per acre. Jay P. Morrill, Palace Building, Minneapolis, Minnesota.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

500,000 ACRES of good grain land to be had under the homestead act near here; good climate. Address Business Men's Club, Columbus, Montana.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

BARGAINS in Kansas land. Write for free descriptions and price list. V. E. Niquette, Salina, Kansas.

ons, which are planted in rows between the onions. Part of the orchard is set with small fruit and part is planted with potatoes and truck.

In dry spells all the water that the windmill will pump is used for irrigation and it is here that intensive farming reaches its height. The water from the well flows directly to the ditches as pumped. A little manure is scattered in the ditches to prevent washing.

The orchards contain 900 pear, 200 cherry, 800 peach and a few apple trees. The trees are planted in straight rows and between are raspberry bushes, tomatoes, cabbages and sweet potatoes, with beets close by.

Mr. Martin thinks he has found a remedy for poverty and hard times. He says that any man can pick up ten or twenty acres; on ten acres he can make a living and on twenty acres he can get rich. He cannot understand why a man will stay around a city working for starvation wages when he can walk out into the country 100 miles and get a farm and be independent. Martin's only market is a small town of 2,500 people, mostly farmers themselves. He has to haul his products seven miles. If he were located near a city he is satisfied he could make a great deal more money on his little farm.

The government intends to exploit the style of farming carried on by Mr. Martin and to teach farmers all over the country to follow the methods of the "most successful farmer in the country."

REAL ESTATE.

NORTH DAKOTA—The home of the celebrated number one hard wheat; the greatest small-grain country in America, invites the homeseeker. Come, share our prosperity. Investigate the Hampden section, edge of the Red River Valley. Deep, rich soil, low-priced lands; schools, churches, railroads; every social advantage. Easy terms. You will like our country. You can quickly become independent here. Illustrated literature free. Active agents wanted everywhere. Write Shipley Investment Co., Box 303, Hampden, Ramsey Co., N. D.

DENVER garden homes, with advantages of city life and an income assured. Four miles southeast of state capital, post office and Denver city market. Unlimited demand for fruit and garden truck. Water; street car facilities. Write today for folder, map and plan to secure five acre tract at your own terms. Park Hill Heights Realty Co., 1769 Stout St., Denver, Colorado.

COLORADO—20,000 acres of horticultural, agricultural and grazing lands in the sunny San Juan section of Southwestern Colorado. Some of the best irrigated lands in the West. Owing to our unlimited, free, open, summer range, we have a great stock country. For particulars, call on or write us. The Boyle Realty Co., Durango, Colorado.

FREE government farms. Our official 112 page book, "Vacant Government Land," describes every acre in every county in U. S. A million acres vacant. How to secure 160 acres by entry, 1909 diagrams. All about irrigated farms. Price, 25c, postpaid. Webb Pub. Co., Sta. 4, St. Paul, Minnesota.

TEXAS school lands. Over 1,000,000 acres for sale by the state; you can buy 640 acres at \$2 an acre; pay \$32 cash and balance after 40 years; fine farming and fruit land and healthy climate. For further information send 6 cents postage. Investors' Pub. Co., Dept. 23, San Antonio, Texas.

FOR SALE—Southeastern lands, timber tracts, truck, fruit, stock and poultry farms. Land costs less, production greater, labor cheaper than North and West. Markets at your door. Abundant rainfall; ideal climate. L. M. Hull, Agent, Cedar Rapids, Iowa.

FOR SALE—Good farm 2 miles from New Richmond, Minnesota. 320 acres; good buildings; farm fenced in lots; over 7 miles of fence; no waste land and very best soil. Reason for selling, my boys are all girls. C. A. Wagner, New Richmond, Minnesota.

COLVILLE Land Company—Ask us to send you folder, giving description and prices of timothy, fruit, grain and timber lands we have for sale in Colville Valley, Colville, Stevens Co., Washington.

FOR SALE—85 acres, 3 1/2 miles from Medford, Wisconsin; 15 acres cleared; balance log timber; 5 room frame house; log barn; all personal property; for \$2,700. Oscar Nystrum, Medford, Wisconsin.

NORTH DAKOTA LANDS on ten years' time, crop payments at 6 per cent interest. Stutsman Co. Rich soil. Map and particulars on request. Address Frank L. Kellogg, Cleveland, North Dakota.

FOR SALE—To settle an estate, 160 acres best farm land in Lucas County, Iowa, three miles from Chariton, \$100 per acre; also sixty and eighty acre farms cheap. C. W. Ramsey, Oakley, Iowa.

FOR SALE—300 well improved farms in northeast Kansas, at prices from \$50 to \$100 per acre. Write for price lists and description to Manville & Bailey, Holton, Jackson County, Kansas.

100 IMPROVED farms in Central Minnesota; all sizes; cheap prices; easy terms; always a good title. Write for land list No. 32; mention this paper. C. D. Baker, Fergus Falls, Minnesota.

CORN, wheat and all staple crops grow to perfection here in the garden spot of Oklahoma. Prices reasonable. Write for list and descriptive literature. C. E. Pochel, Newkirk, Oklahoma.

LAND—BOTH RAW and irrigated, under new ditches and new railroads in Weld county is attracting many investors and homeseekers. Write D. W. Rannels, Greeley, Colorado.

160 ACRES of bottom land, finest of alfalfa land; 120 acres in cultivation; 1 mile from town. Biggest kind of snap. \$50 per acre. H. W. White Land Co., Phillipsburg, Kansas.

SALE or exchange; 653 acre farm, Cherokee Co., Iowa. Price, fifty thousand dollars; mortgage, fourteen thousand five hundred. Francis Smith, Dixon, Illinois.

EASY MONEY farming in Texas on Palo Blanco Gardens. \$10 per month. Write Street Realty Co. (Inc.), San Antonio, Texas, for free booklet.

ANDERSON County farms; good investment; good home and good income. Write for new free list. Holcomb Realty Co., Garnett, Kansas.

FOR SALE—One of the nicest and best improved farms in Southern Kansas. Write the owner, James Hanna, Arkansas City, Kansas.

200 ACRES good land, 3 sets of buildings, or 3 farms in one. Price only \$4,400. Lewis Farm Agency, Candor, Tioga County, N. Y.

FOR SALE—Splendid, improved, Southern Minnesota farm, 150 acres, will be sold at a bargain. H. H. Hinkler, Maukato, Minnesota.

150 ACRES at \$45; well improved; fruit; telephone; rural route; easy terms. Mrs. W. L. Scott, Box 25, Veve, Vernon County, Missouri.

160 1/2 MILE of Milan, Kansas. River bottom. To close estate. Also 160, Hamilton County, Kan. M. Crenshaw Milan, Kansas.

CHOICE BARGAINS—80 to 320 acre farms; good quality soil; fine locations. Write for list. J. M. McCown, Emporia, Kansas.

FOR SALE—6 room house; 3 lots; outbuildings; trees; well; other conveniences. For terms, address Box 37, Tobias, Nebraska.

HAVE moved to town, and will sell three quarter section farm, either part or all. M. M. Cook, Monango, North Dakota.

SNAP—Montana choice fruit and agricultural ranches. For particulars, write Miller & Clouett, Belfry, Montana.

SEEDS AND NURSERY STOCK.

PURE BRED Gartin, regenerated oats, Swedish Select oats, Oderbrucker barley, Durum wheat, White Flint and Silver King seed corn for sale. Two good men wanted. My farm for sale. Write me your wants. M. O. Myrick, Bristol, Wisconsin.

SEED OATS—Regenerated Swedish Select, Early Kherson, Swedish Select, (Wisconsin No. 4). America's three best oats. Farmers' price. Reclaimed. Sample and circular. Alfred Klein, Louisa, Wis.

EAR SEED CORN, positively guaranteed. Early Snow Flake, White Dent, great yielder, \$2.25 (two twenty five) per bu.; sample ear, 10c. C. S. Bovee, Elk Point, South Dakota.

I HAVE 2,000 bushels 1903 crop Dakota grown Iowa Gold Mine seed corn. Write for sample and price. L. N. Crill, Elk Point, South Dakota.

SITUATIONS WANTED.

WANTED—Thoroughly experienced farmer, stock-raiser, wants position as foreman, or working for man. M. J. Freidline, Mendota, Wisconsin.

POULTRY.

BARRED Plymouth Rocks, the kind that win. Large boned, vigorous, stylish, farm-raised birds, with narrow, blue bars to the skin, and bred for heavy egg production. Am giving some rare bargains. Write me your wants. Mrs. A. A. Berry, Clarinda, Iowa.

WHITE ROCK cockerels; big boned, vigorous, farm-raised birds to head your best pens. Wonderful egg producing strain. Be friendly. Write me your wants today. Mrs. A. A. Berry, Clarinda, Ia.

FIFTY VARIETIES of pure bred chickens, ducks, geese and turkeys. Incubators and brooders. Large illustrated catalog mailed for 4c postage. C. M. Atwood, Dundee, Minnesota.

45 BREEDS pure-bred chickens, ducks, geese, turkeys and incubators. Send 4 cents for large poultry book and price list. H. H. Hinkler, Dept. 5, Maukato, Minnesota.

BUFF ROCK cockerels and Pekin ducks of good size and color. Prices right. Mrs. John Martin, Mason City, Illinois.

WHITE ROCKS—Prize-winning stock. Cockerels scored and unscored. George Blake, Oelwein, Iowa.

FOR SALE—Barred Plymouth Rock cockerels, \$2 and up. Aye Bros., Graut St., Blair, Nebraska.

30 BREEDS geese, ducks, chickens. Catalog free. Mikel & Co., Mapleton, Minnesota.

WRITE ME for Pekin ducks and Toulouse geese. Frank Martin, Clara, Iowa.

FOR SALE—Large Embden geese. Hiram Clouss, Clara, Iowa.

HELP WANTED.

WANTED—Railway mail clerks, postoffice carriers, clerks, custom house clerks. Salary \$600 to \$1500. Steady work, short hours, annual vacations, salary twice monthly. Thousands of appointments during 1910. City and country residents stand equal chance. Common school education sufficient. Political influence not needed. To advertise our schools we are preparing candidates free. Write immediately for schedule showing dates and places of examinations. Franklin Institute, Department P. 28, Rochester, N. Y.

GOVERNMENT farmers wanted. Salary \$75 monthly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42 F, St. Louis, Missouri.

WANTED—March first; man to work by year on stock and grain farm. Of good character, sober and some experience. Write, giving wages wanted and reference. W. E. Elliott, Walnut Grove, Minn.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examinations; 100 free scholarships. Write for schedule and free trial lesson. Ozment, Dept. 42 R, St. Louis, Missouri.

CUSTOM house clerks wanted. Spring examinations. Preparation free. Franklin Institute, Dept. P. 28, Rochester, N. Y.

CATTLE.

FOR SALE—One fullblooded Angus bull 3 years old; sure breeder. Also 20 good, young, high grade Angus cows, bred and open. Write Frank Kahler, Prairie du Chien, Wisconsin.

REGISTERED cattle wanted in exchange for quarter section. Wisconsin sugar beet land; close railroad; clear of encumbrance. R. H. Dosh, Stuart, Iowa.

CHOICE Polled Durhams. No scurs. F. Bunker, Kilbourn, Wisconsin.

BUSINESS OPPORTUNITIES.

GO TO Western Washington, where land is cheap; where ten acres make a farm; no irrigation needed; no blizzards, cyclones nor droughts. On the Pacific slope our climate is unsurpassed. Plenty of good hunting and fishing. Cheap fuel, coal and wood. Plenty of work the year round at high wages. Dairying, poultry raising, fruit growing and gardening pay. For views and information, write Secretary Commercial Club, Centraha, Washington. We want you to come.

HORSES AND JACKS.

MUST SELL—A N. 1 imported Belgian stallion, weight 2,000, 6 years. Also large No. 1 jack, 16 hands, 8 years. Act quick. John Steinauer, Executor, Steinauer, Nebraska.

FOR SALE—Imported black Percheron stallion, eight years old, weight 1,750; good breeder; low price on account of going out of business. Nelse Mouson, Swedesburg, Iowa.

FOR SALE CHEAP—Shire stallion, ten years old; great breeder; plenty of colts to show. G. W. Smith, Altoona, Iowa.

DOGS.

FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successfulcoon, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

COLLIE PUPS for sale from the best champion and imported strains. They make great workers, good watch dogs and handsome pets. Write me your wants. Leroy A. Hays, Knoxville, Iowa.

THOROUGHLYBREDcoon, fox and wolf hounds, trained and untrained. These dogs are guaranteed. Address Morris Murphy, Bentonpost, Iowa.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

AGENTS WANTED.

AGENTS coin money handling our high grade specialty. Every farmer and horse owner buys one. Don't delay. Write today. Brady Specialty Company, Davenport, Iowa.

WE PAY \$80 a month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bigler Company, X425, Springfield, Illinois.

POST CARDS.

20 HIGH-GRADE post-cards, birthday greetings, landscapes, Easter and other beautifully colored, sent postpaid for only 10 cents. Address Kusnitz & Co., 944 Chouteau Ave., St. Louis, Missouri.

MISCELLANEOUS.

FROZEN FISH—Fresh frozen Lake Superior fish, direct from the fisheries to consumers. Write E. Kenner (Wholesale Fish), Duluth, Minnesota.

RELIABLE party knows cattle business. Wants some one to furnish him cows to care for part of increase. Box 5, Norman, Oklahoma.

PLANS and specifications for sanitary dairy barns. Draw plans for all farm buildings. Monthly Journal free. Buff Jersey, Monmouth, Ill.

WRITE TO King Publishing Co., Cedar Rapids, Iowa, for information describing the best Farmers' Account Book published.



TYPE OF SCOTCH SHORT HORNS TO BE SOLD IN THE PUBLIC SALE OF S. J. M. STEWART & SON, AINSWORTH, IOWA, FEB. 25TH. SEE PAGE 55.

The Outlook for Beef Production

By B. O. Cowan

TO AN audience of farmers and live stock breeders any intelligent discussion of the beef industry of our country should command attention, but at a time when all meat products are abnormally high and spasmodic and in many cases irrational efforts are being made to reduce prices, the discussion of this question has an added interest. While we have vegetarians, it is undoubtedly true that meat is the principal and most costly article in the diet of mankind, and of this meat supply beef comprises a very important part. The advocates of vegetable diet will hardly admit that it is a case of cause and effect, yet it is nevertheless true that the meat eaters of the world are the people who have done most for its civilization and advancement. According to a recent report of the secretary of agriculture, the people of the United States consume more meat per capita than those of any other country except Australia and New Zealand. The annual per capita consumption of meat in the United States is 185.8 pounds as against 121 pounds in the United Kingdom; 115.94 in the German Empire, and seventy-eight in France. Australia heads the list with an average of 262 pounds. This consumption is no doubt influenced somewhat by local conditions, such as the abundance or scarcity of meat, and the prosperity or poverty of the people. It would be interesting if we had statistics concerning this per capita consumption by decades for fifty or 100 years in order to determine whether it is increasing or decreasing.

That the number of cattle in the United States has decreased during recent years is generally admitted. This is the result in part, at least, from the curtailment of the range cattle industry by the encroachment of settlers wanting homes, and by the enforcement of the law against fencing government lands. There were 2,186,000 less cattle in the United States, January 1, 1909, than we had January 1, 1907, while our population has shown a very substantial increase. In consequence, the proportion of beef per capita is becoming less each year. In 1840 the proportion of cattle in the United States to its population was such that we had .88 of an animal to each inhabitant; .81 in 1860; .79 in 1880, and .69 in 1900. With a continual and rapid increase in our population and a steady decrease in the number of cattle, the deficiency in our beef supply will become more apparent; and if this ratio continues for a few decades the United States may cease to be a beef-exporting nation. During the past decades cattle and beef products have constituted a considerable part of our exports, averaging 32,000,000 pounds from 1851-5, and reaching its highest point in 1906 when we sent abroad 733,000,000 pounds; while in 1909 we exported only 419,000,000 pounds, a loss of more than 40 per cent. Our exports of pork and pork products made an annual average of 91,000,000 pounds from 1851-5 and rapidly increased until its maximum was reached in 1896-1900 with an average of 1,462,000,000 pounds; and in 1909 this had fallen to 1,053,000,000 pounds. In 1906 our total exports of beef and pork products combined reached the stupendous aggregate of 2,198,000,000 pounds; while in 1909 it was only 1,472,000,000 pounds, a loss of 33 per cent in three years.

In 1904 we exported 593,000 live cattle and in 1909 but 208,000. The countries which have the greatest surplus of meat products are the United States, Argentina, Canada, Australia and New Zealand; and until recently the United States had the larger part of the export trade. But we now realize we have a formidable rival in Argentina particularly in our beef exports to Great Britain. In 1898 the United Kingdom bought

from the United States 257,819,000 pounds of fresh beef and 12,123,000 pounds from Argentina; in 1899, 303,000,000 pounds from the United States, and 16,000,000 pounds from Argentina; while in 1909 she bought but 160,000,000 pounds from us and 400,000,000 pounds from our South American competitor. This is a phenomenal increase and indicates that the Argentine Republic may deprive us of our best customer for our surplus beef products.

Coincident with this annual decrease of from one to two million cattle in the United States there has also been a marked decrease in the number slaughtered for home consumption and for foreign commerce. According to figures furnished by the bureau of animal industry in 1907, 7,621,717 cattle and 1,763,574 calves were slaughtered; while for the year 1909 there were 7,230,272 cattle and 2,046,713 calves slaughtered, showing a decrease of nearly 500,000 cattle and an increase of 323,000 calves. The increase in the number of calves slaughtered really indicates a more decided decrease in future cattle supply than is at first apparent since a strong decrease in calves or young breeding cattle means a reduction in the future beef supply.

Partly as a result of a decreased supply of cattle, but chiefly because of the high price of corn for the last three years beef and all meats have become abnormally high and the beef grower and feeder is getting a merited reward. The increase in the value of fat cattle in our market centers during the last year was phenomenal, amounting in most instances from 40 to 50 per cent, putting the retail price of beef beyond the ability of the poor to buy it and making it almost a luxury to well-to-do people of our towns and cities. How much the retail price of meats have been advanced by packers and dealers beyond profit, I am not prepared to say; but with sheep, hogs and cattle selling at from \$6 to \$9.20 per 100 pounds live weight, meat on the block will be costly even if only a fair profit is exacted for the handling. The department of agriculture instituted an inquiry to determine the per cent added by the retail dealer to the wholesale price of meats. This information was gathered from fifty towns and cities, and the result of these inquiries showed the retail price to be from 17 to 68 per cent greater than the wholesale price; and the greater increase for the cheaper cuts than for the better ones, thus putting the greater burden on the people who can least afford to bear it. These high prices for all food products have at last brought a condition never before known in this country—a boycott of meats, eggs and butter by large masses of people in many cities. These movements have been spasmodic and in some instances have been accompanied by such extravagant and unreasonable statements as to amount to a mild form of hysteria. The causes assigned for these high prices have been varied and some of them amusing. All kinds of trusts, from the "Beef Trust" to the "Farmers' Trust" have been suggested as the cause; also the tariff on meats and the overproduction of gold. As a proposed remedy judges of courts, mayors of cities and general assemblies of states and congress have started investigations and what the final result will be cannot be foreseen; but the immediate effect has been what all well-informed stockmen saw it would be, namely, a reduction in the price of meats, but a greater reduction in the prices paid for cattle and hogs at our market centers; so the producers will have to bear the loss.

In the discussion of this question the chief causes of the high price of meats are often entirely overlooked, namely, the high price of grain and

shortage of fat stock. If either wholesale or retail dealers form unlawful combinations to put fictitious values on food products and so exact extravagant profits, they should be investigated and punished; but such investigations in the past have resulted in a temporary paralysis of our markets and a tremendous loss to live stock producers, with no permanent benefit to the consumer. I would not be understood as condoning the conduct of any who may conspire to rob the people by an unreasonable or unlawful combination, but in the proposed investigation there is greater chance of loss to the producer than of permanent relief to the consumer. To the producer of live stock who is preparing it for market on high-priced grain, the situation is somewhat serious. It is to be hoped there will be no serious depression in prices at our live stock markets and that normal trade conditions will soon return.

During the last fifteen years there have been times when men who have been rearing and feeding beef cattle received very small compensation for their investment and labor, but at other times the reward has been ample. At present the outlook for beef production is bright. With a rapidly increasing population and a decreasing supply of cattle there is certainly encouragement for men breeding beef cattle. Under former conditions of cheap grain, cattle feeders were accustomed to use corn exclusively in making beef, but under the restricted area for corn production and the constantly increasing demand for it the days of cheap

corn seem to have passed; hence it may be necessary in future for stockmen to reduce the cost of beef production by feeding alfalfa, ensilage and roots, and less high-priced corn. Under normal prices for hay, roots and grain, the feeder who received five to six cents per pound for his fat steers made a fair profit; and during the last twelve months prices in many instances have given a handsome return for the investment and labor. During last October one entire train load of fat steers sold at \$9.20 per 100 pounds and brought the feeder \$168 per head. Some shipments of yearling steers brought from \$85 to \$100 per head and at this price breeders of pure-bred beef cattle could well afford to steer many of their bull calves.

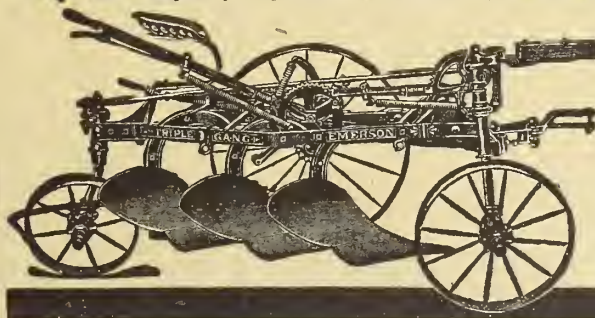
These are unusual prices it is true and can be looked for only during times of decreased grain production and consequent high prices for meat-producing feed. But there is good reason for believing that for some years to come meats will command good prices, sufficient to give fair returns to the raisers and feeders of good cattle. Well-bred steers that can be put on the market at twenty to twenty-four months old, weighing from 1,150 to 1,350 and selling at five to six cents per pound will certainly return a good profit. In this estimate I have tried to be conservative both as to weight of steers and the probable price realized. It seems to me therefore that farmers have reasonable encouragement to continue to raise and feed a good class of beef cattle.—(Address before Wisconsin State Board of Agriculture.)

Save \$80 in 20 Days' Plowing

YOU can save \$80 in 20 days' plowing by using an Emerson Foot-Lift Triple Gang, which turns three 14-inch furrows at a time, and with which one man works six or seven horses as against the two-horse, one-man walking plow. With the Emerson Foot-Lift Two-bottom Gang, using four horses, you save \$50, or with an Emerson Foot-Lift 16-inch Sulky, using three horses, you save \$10. These figures are based on the low price of \$1.00 per acre for plowing and 50 cents per day per horse. And what is better than the money saved is that you come from the field at night feeling fresh and happy ready to give your horses proper care, and to greet your wife and family with a smile and a pleasant word, instead of feeling worn out from trudging all day in the furrow. It pays to have the hired man use the

EMERSON TRIPLE-GANG PLOW

or any other Emerson Plow. The good men stay with you instead of looking elsewhere. Emerson Foot-Lift Plows help keep the boy on the farm by making his work pleasant for him. They are Easy on you or the boy because they handle the plow, leaving both hands free to manage the team. Easy on your horses because the 2000-mile wheel boxes carry the load on thoroughly lubricated wheel bearings, mostly on the two large wheels—the wheels nearest the team. Bearings running in oil must run light and prove durable. Easy on your pocketbook because they are made to last as long as you live.



Write Today for Free Book

Just a postal will do. Send it now—even if you don't intend to buy right away. It will pay you to have our book on hand to refer to—to compare values. If interested, also ask about our new Famous Standard Wide-Cut Mowers.

Emerson-Brantingham Co.
Formerly Emerson Mfg. Co.
Farm Implement Builders since 1852
ROCKFORD ILLINOIS

2 IN ONE

HARROW
AND
WEEDER

4 HORSE CUTS 22 FEET



Ware's Combination Steel Lever Harrow and Weeder

TWO IMPLEMENTS FOR THE PRICE OF ONE.

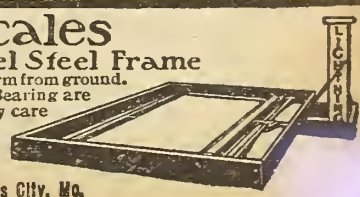
The only steel lever harrow made with bars running with the team and teeth that cut and turn the soil instead of breaking through by sheer force. Weighs about the same and draws as light as the Boss Wood Harrow. New Style Mould Board Tooth and Great Clearing ability makes implement perfect Weeder for working corn, etc. Write for large cuts and Harrow Circular. Sent free on request.

HACKNEY MANUFACTURING COMPANY, 406 GERMANIA LIFE BLDG., ST. PAUL, MINN.

Lightning Pitless Scales

New Pattern. Solid Channel Steel Frame

Channels are seven inches which is the height of platform from ground. Levers are octagon in shape giving greater strength. Bearing are Toolsteel. This Scale will last a life time with ordinary care. Equipped with compound Beam Free. Furnished absolutely complete except platform planks. Guaranteed accurate and tested to more than its capacity. Write for our prices and description before buying.
KANSAS CITY HAY PRESS CO., 126 Mill St. Kansas City, Mo.



THE SHOATS IN WINTER.

To the Editor of The Homestead:

The shoats should have a place to themselves in the cold weather. If allowed to run with the older hogs, they are apt to be overlaid in extremely cold weather when the herd is crowded together in the bed. Then, too, they need special feeding, and when running with the herd it is almost impossible to give it to them. Without special attention, the shoats are most certain to suffer for food. The older hogs will gobble it up before the shoats are able to satisfy their appetites. Besides, older hogs sometimes are very mean about fighting the shoats away from the feed and sometimes injure them severely beside depriving them of their rightful feed.

So I believe it is a good plan to have a separate place for the shoats. I know a man who has a lot fenced especially for his winter shoats. It is located just south of a wooded pasture. In one corner of the lot is a shed or house opening to the south. This he keeps well bedded with straw. There are three compartments to the house so that when the shoats are numerous they can be divided at night. This keeps them from piling up at night and getting too warm or smothering some of their number.

In selecting a feed for the shoats in winter, the owner must be governed largely by circumstances. To give pigs slops of different kinds is considered a wise plan, and it is in most instances, but if their bowels are troubling them, I do not believe it is best. I know a farmer who fed his pigs slops one winter twice a day when they were badly affected with bowel trouble. Of course he lost a number of them before the winter was over. If the pigs are in a healthy condition, slops are very beneficial, but when bowel trouble affects them it is best to discontinue the slops and feed grain alone. Burnt corn is good for shoats that have the bowel disease. Plenty of charcoal, ashes and salt mixed should be kept where the shoats may have free access to it at all times, for it is a bowel regulator and helps to keep away diseases of different kinds.

I have fed oats and wheat to shoats very profitably, but if a person wants to keep the shoats growing and in good condition, nothing beats corn. I believe with many other farmers that it is best to keep the shoat moving right along in flesh from the start. Let him get poor, especially in winter, and he will be longer in developing and fattening, so of course will consume more grain. I have known farmers to put off six months old hog weighing over two hundred pounds that had been pushed from pigs to pork. A neighbor always lets his shoats get long and lanky before giving them all they can eat, and his friends make fun of his "hazel splitters." It takes him from eight months to a year to put them on the market. Of course he loses money and time as well.

Whatever the shoat needs in slops and grains should be given him that he may move right along all the time. A farmer's good judgment must decide this question. Green feeds such as cabbage, turnips, potatoes and pumpkins are healthful for the shoats. These can come to them from the kitchen slops. Subscriber.

GETTING BACK SOIL FERTILITY.

To the Editor of The Homestead:

One way to get is to give. In our farm management, we have been slow to recognize this truth. We like to open our hands and take what is placed in them. To just spread the fingers a bit, so that something shall slip out through them is such a different thing! Still, it is one of the most sensible things we can do.

Few farmers who have been on their places any length of time but will admit that their lands are all the time losing in fertility. It makes them wonder where the end will be; but to turn about and stop the waste is so hard sometimes.

But we need to stop short now and think what we can do to stem the tide of loss here. The best way I know of is to keep stock right up to the limit of possibility. Now, I would advocate that all attention should

be paid to stock, to the exclusion of everything else. That has never been my policy. I think general or diversified farming is best; so I keep some cows, some sheep, some hens and grow some grain and other cereal crops.

When I say I would keep all the cattle I could, I mean that I would have enough to eat up the hay, a good deal of the corn fodder and some at least of the grain produced on the farm. This would be my way of marketing these farm products. By selling the milk, butter, eggs, hogs and what of the surplus stock I could for meat, there would be a fair return for the time, labor and capital invested, and at the same time the farm may be kept in good condition.

Still another way of accomplishing this, or at least of helping to do it, is to grow clover and other similar plants and grasses and turn them back into the soil. By this means slight drafts would be made upon the farm fertility, so that we may pass our farms on to those who come after us at least not poorer than when we came into possession of them.

There is a great deal of satisfaction in this kind of farming—far more than in being compelled to admit that one's farm lands are all the time being depleted. To be able to say at the end of each passing year, "I have kept my farm from deteriorating, and yet I have made a good living," ought to be an incentive for us all.

And we can do just that kind of farming. Edgar L. Vincent.

THE COST OF PRODUCTION.

To the Editor of The Homestead:

In figuring the cost of production it is noticed that the estimating is done by following a few arbitrary rules, rules that would not be tolerated in any other business. Now farmers ought to be on a par with other business men. For instance, a clothing merchant who sells a suit for \$10 which costs him \$5, does not consider that he makes 100 per cent on the cost price. He takes into consideration rent, taxes, interest, insurance and clerk hire. He also figures the number of suits in the invoice which he fails to sell; he must put in all expenses or he will soon be bankrupt. Ordinarily in computing the cost of a crop, all that is considered is an allowance for plowing, seed, harrowing, harvesting and rent. In the cost of the live stock nothing is accounted for but the price of feed.

Now on this 240-acre farm there are seven acres of road which are counted in everything except taxes, and that is not much, as the rest of the land is taxed to keep up the road. Waste places which do not produce must get support from the land which is profitable. In rotation of crops the loss on the poor-paying crops must be charged to those which pay a dividend. Provision must be made for the renewal of machinery and horses which wear out. A telephone company estimates that it must renew the entire plant every ten years. Did it ever occur to anyone that a farmer should have renewal of his means of production, or that it should be charged to cost of production? Every farmer who has lost his herd of hogs by cholera will agree that insurance is a factor. The cash returns



A FEW OF MOIR'S PERCHERONS.
The above engraving shows four of the home-bred Percherons which Mr. P. W. Moir, of Orange City, Iowa, will put into his public sale to take place at Mitchell S. D., on March 11th.

The Difference

You might just as well run your wheat and other seed through a coffee grinder as through some of the (so-called) force feeds of many Grain Drills to-day.

Our Booklet (free) shows the famous FETZER Feed—one seed at a time—no crowding, crushing, breaking or injuring of any kind of grain. If you didn't see our exhibit at the State Fair, we want you to get our book about the FETZER Grain and Fertilizer Drills—1st prize winners in England and Germany as well as in America for the past five years. We will also give you a

\$1.00 Certificate Free

If you send the coupon at once. This \$1.00 coupon is money in your pocket—a reduction on the regular price. You'll never make an easier dollar than by sending the coupon now. You'll be surprised how far the FETZER Drills are ahead of all others. Simply mail us the coupon, properly filled out, or mail us a postal for free Book.

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RICE DRILLS
FERTILIZER DRILLS
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SEEDERS
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TRANSPLANTERS
For Tobacco, Cabbage, Tomato and other vegetable plants.
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The Only Complete Disc Drill.

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Wm. FETZER Co., Springfield, Ill.
Gentlemen:—Please send me your Book No. 30 about FETZER Grain and Fertilizer Drills. Also send me certificate good for \$1.00 on purchase price.

Name.....
Town.....
State..... R.F.D.....

are easily figured, but the expenses vary and probably most any farmer can tell some item in the expense account which I have not enumerated.

The high cost of living, especially the farmer's contribution, is generally under discussion. It is time that figures which show the cost of production should be revised and corrected. Subscriber.

RAISE BEEF NOT TALLOW.

H. J. Waters, president of the Kansas Agricultural College, told the members of the state board of agriculture and delegates many things they had never heard of before regarding "what makes an animal grow." The address was a discussion of experiments that President Waters has been carrying on several years.

"The breeder may be considered as the architect of an animal," President Waters said. "It is popularly supposed that the feeder has much to do with making an animal what it ought to be, but he hasn't. The feeder is simply the contractor, who carries out the plans and builds the animal according to the way the breeder started it. The ideal beef animal has not been developed. It is coming. Experiments are being carried on all the time to get an ideal beef steer. The best beef steer is one that puts all the fat in between the muscle fibers and puts very little fat inside, around the abdominal cavity and between the muscles and his skin.

"Fat placed around the abdominal cavity of a steer is worth four and one-half cents a pound as tallow. Fat more than half an inch thick outside the muscles is practically waste, but

NEXT TIME YOU GO TO TOWN

be sure to ask your storekeeper to show you a pair of Extra Heavy

PRESIDENT SUSPENDERS

Just give them a try-out as a work-suspender. You'll find them so much more comfortable than the rigid-back kind you have been wearing and last so much longer, that you will never want to wear any other kind.

The sliding cord in the back takes all strain from your shoulders, allows freedom of motion, and prevents chafing.

Maker's guarantee on every pair—SATISFACTION, NEW PAIR OR YOUR MONEY BACK. If your storekeeper doesn't have the Extra Heavy Weight, made especially for farmers, we will send you a pair postpaid, upon receipt of price, 50c.

The C. A. Edgarton Mfg. Co.
SHIRLEY PRESIDENT SUSPENDERS

804 Main Street, SHIRLEY, MASS.

Pure Water for Your Stock EVERY DAY THE YEAR 'ROUND

Our Anti-Freezing Stock Waterer is always ready. Works automatically. No ice in winter. Water cool and fresh in summer. Thirty-day free trial. Money back with 6% interest within one year if our Anti-Freezer does not do just what we represent. Direct from factory to you.

Write
RICHARDS MFG. CO., Danl. C. Aranahoe, Neb.

the steer that puts the fat in between the muscle fibers so that we can't separate it makes that fat worth fifteen to twenty-five cents a pound, for that is what we pay for good cuts. Normally a young calf grows in height and not much in width, but as they mature the width increases. You can feed a steer all you want to or starve him and it will not affect his height greatly, but the width is very responsible to feeding. In our experiments we fed a steer so that he would lose half a pound a day. At the end of seven months of this feeding the steer showed an increase in height, but there was no change in his width after the second month. An animal apparently reverts to the original type on this sort of ration. Wild animals are long, lithe and narrow. With a sub-maintenance ration the steers continue to develop into this type of long slender animals and lose nothing in height, but they do lose in width. The feeder increases the width by feed and by the animal spreading out.

"There are a certain number of

muscles in an animal from birth, and this does not change. What the breeder wants to do is to develop an animal that will have the lean streaks so placed and so sensitive that when the feeder gets hold of him the foods will be changed into fat and this fat be so placed that the lean meat is so mixed with fat that it cannot be cut away."

PLAN TO FERTILIZE YOUR LAND.

To the Editor of The Homestead:

Without doubt the farmer should plan to fertilize his land this spring. Probably he drew on it very heavily the past year, and unless the fertility is restored a poor crop yield is most certain to result. There are a number of ways a farmer can restore the depleted elements to his soil.

In the first place, stable manure is most prized as a fertilizer for poor soil. Probably it has accumulated about the barn in great piles during the winter. It should be dumped in to the manure spreader and applied to the soil at the very earliest moment possible. Probably the farmer lives close to a good sized town and can secure fertilizer from the barns of those who keep horses and cows. I know a farmer living just a mile from town who has hauled out nearly two hundred loads of manure to his farm this winter. This he secured from town stables without a cent of cost.

Then, too, there's the rotted straw rick standing in the field. This is a good fertilizer. Don't go out and set fire to it just to see it burn, but scatter it over the land, turn it under and watch the result at harvest time. It is much more profitable to put it under the soil with a plow than to send it up into the sky as smoke.

There is also the commercial fertilizer. It has proven itself a success and farmers are investing in it year after year because it is valuable. Two dollars spent for fertilizer for an acre of corn or wheat, as a general thing, will return from four to eight dollars for the investment, so the farmer who is compelled to resort to the commercial fertilizer is not a loser by any means. The farmers I know who use the fertilizer year after year claim it is paying them well for the money invested. It may become necessary to apply the fertilizer year after year when the same grain is planted, but when there is a rotation of crops this will not be necessary. For corn and wheat the commercial fertilizer is especially adapted, and the farmer whose land is reduced in fertility will find the commercial fertilizer his friend.

Lastly, clover and alfalfa are good fertilizers, and if the field is not demanded for grain, clover or alfalfa should be sown this spring. Oats are a good nurse crop

for clover or alfalfa. In the Middle states clover seems to do better when sown with the wheat in the fall of the year. In two or three years a field that has been left in either alfalfa or clover will become rich in humus or plant life.

W. D. Neale.

PROTECTING WATER PIPES.

To the Editor of The Homestead:

In a recent issue of your paper I noticed an article where a farmer complains that he can't keep the conductor pipe under his supply tank, which sets on a brick foundation, from freezing.

Having been in the water supply business for years I think that I can show him where he is lame. He claims that he has wrapped the pipe in a dozen different ways, also packed eighteen inches of sawdust around same, but with no success. We know that cold water passing through a pipe will gather moisture out of the warmer air, and in turn will moisten any wrapping or packing that comes in contact with the pipe, and after packing is moist it is a very good conductor of frost. There are several good pipe coverings on the market that have small air cells through them and air that does not circulate is the best non-conductor of cold there is. These are fairly successful for inside pipe that is exposed more or less to the weather. But the simplest method and one that I have used for years without fail is the following:

Build a square box four inches larger than the pipe (if your conductor pipe is two inches use a six-inch box inside measurement) from the bottom of the tank to the ground or a little below the surface. Be sure to get the top and the sides air tight—a coat of some heavy paint will help wonderfully, cover this with good building paper then nail several two-inch strips crossways to fasten the second box to, make this box four inches larger than first, and cover same way as first. Use some more two-inch strips and build the third one four inches larger than second. It will not be necessary to cover the third box with paper for it would soon wear off. Use matched lumber, if possible, the idea being to get it air tight all around, and it will keep the pipe from freezing in any weather in any climate, even as far north as Cook was. The lumber and labor will not amount to much and will outlast the tank.

F. J. Herber.

McHenry county, Ill.

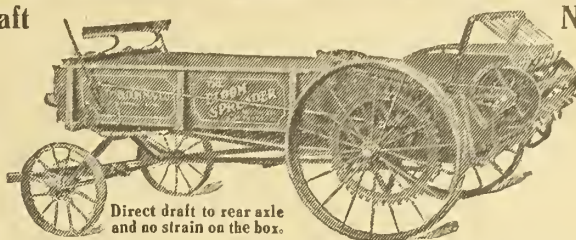
WIDTH OF ROADS.

To the Editor of The Homestead:

I have just read an article in your paper, by C. W. Overturf, on the subject of narrow roads, but do not agree with him, as I think the roads are none too wide now. I am a farmer and own a farm with a road running through the center of it. What

At Last a Perfect Spreader—The Bloom

Direct Draft
Endless
Apron
Regulated
from
the Seat
All Steel



Direct draft to rear axle and no strain on the box.

No Spring
No
Gearing
Low for
Loading
Simple
Durable

The Bloom Spreader has absolutely every feature worth while, and none of the disadvantages of other manure spreaders are combined in the Bloom Spreader. That sounds strong, doesn't it? But it's true. Listen to this—direct draft to rear axle, extremely low for loading, endless apron, practically all steel, apron regulated without moving from driver's seat. No springs or gears; direct beater drive.

The Bloom is the lightest, yet the strongest spreader made. It is built for quick, active service and long life. As one buyer said, "It's like my thoroughbreds, and differs from the other spreaders just like my thoroughbreds do from heavy, clumsy scrubs."

You will find genuine satisfaction in the Bloom Spreader, and will delight to tell your neighbors of its simplicity and durability.

Sold under our liberal guarantee. Write today for our free catalog.

BLOOM MANUFACTURING COMPANY, NASHUA, IOWA.

should a person do when an automobile comes wobbling down the road at the rate of forty miles an hour? I don't believe he would want a two-rod road then, but would prefer it about four rods. Just think of driving a frightened team, with a barb wire fence on both sides and an automobile holding the center of the road. And it is not only the automobile, but sometimes a drunken, reckless driver letting his team go at a reckless pace in the center of the road. I think there are plenty more who will agree with me.

I. F.

AN OVERLAID CEMENT FLOOR.

To the Editor of The Homestead:

In June of 1902 we had a severe storm that swept over the southeastern part of South Dakota and part of Iowa, destroying many buildings and other property. Among other buildings which were damaged in that storm was my hog house, so that I had to erect a new house. Having read considerably on the merits of cement, I decided to put in a cement floor. One reason why I chose cement was that my old building had been overrun with rats and I wished a floor that would be rat-proof as well as inexpensive and durable. I put in a floor of small stone and cement about six inches thick and I congratulated myself that I had accomplished all that I had expected in the way of a floor, but I must confess that my floor did not prove at all satisfactory. The following spring—1903—I had as fine a lot of sows as I ever owned. I had about twenty and as I had a new hog house and as I believed everything in shape to care for my pig crop, I expected good returns. But as my pigs came on I soon found that my cement floor was too cold and hard for the little fellows. Many of the youngsters would wiggle off on the bare floor

HOG RAISERS, ATTENTION!

Is it worth 4 cents per head per year to have your hogs free from lice and other profit-eating parasites? Send me your name and let me tell you how my RUBBING POST will do this. Cheapest and most effective method in use. No labor required. Works the year 'round. Not dangerous to heavy brood sows. Write for price and description.

S. B. WASSON,
413 S. Washington Street,
PEORIA, ILLINOIS.

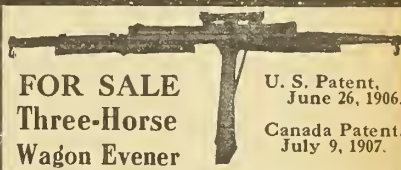


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PLANTER
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You can afford
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THE SCHOFIELD POTATO PLANTER

Thousands of satisfied customers. Sold from factory to farmer at special prices. Satisfaction guaranteed. Write today for catalog H.

SCHOFIELD & COMPANY,
Manufacturers, FREEPORT, ILL.



FOR SALE
Three-Horse
Wagon Evener

U. S. Patent,
June 26, 1906.

Canada Patent,
July 9, 1907.

That will work on any farm machine with tongue in. Warranted free from side-draft. Given on 30 days' free trial. Also four and five-horse Eveners for sale.

Wm. S. Menefee, Atlantic, Iowa.

and after becoming chilled, would never gain a footing to find their way back to their mothers. Owing to this condition of things I lost fully one-half of my pig crop for that year. After studying the question carefully I decided to put a board floor on top of the cement, which I did by laying 2x4's flat for crosspieces and then filling up between them with cement so as to leave no space for rats to work underneath the board floor. Then I laid a good quality of inch sheeting over the cement foundation. This made a very satisfactory job, for the following spring my pig crop turned out fine and I never saw a rat in that hog house. I have since changed localities and am living in Tripp county, but am so well pleased with my overlaid cement floor that I shall use the same plan in my hog house that I expect to build here.

Tripp county, S. D. P. T. Glidden.

Some Oklahoma farmers played a trick on an eagle. The bird had been stealing many chickens, but no farmer with a gun had ever been able to get within a half mile of the clear-eyed fowl. Recently two men went out gunning for the eagle, and it flew away, but they had planned their campaign, and a man was hidden in a straw stack over which the eagle flew. It got "both barrels" and fell.



Risk

A GROUP OF PERCHERONS COMING THREE YEARS OLD, FROM STUD OF PETER HOPLEY & SON, LEWIS, IOWA. SEE ADVERTISEMENT ON PAGE 62.

Dates Claimed for Live Stock Sales.

ABERDEEN ANGUS CATTLE.

Feb. 23, L. L. Atwood, Langdon, Iowa.
 Mar. 10, M. H. Donohoe, Holbrook, Iowa.
 Mar. 11, Wm. Cssh, Williamsburg, Iowa.
 Mar. 16, Breeders' sale, M. A. Martin, Ngr., Wall Lake, Iowa.
 Mar. 17, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Ngr., South Omaha, Neb.
 June 7, James Williams, Marcus, Iowa.
 June 8, Stanley Pierce and John Evans, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Palmyra, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 20, C. M. Russell, Carroll, Iowa.

SHORT-HORN CATTLE.

Mar. 15, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Mar. 16, O. O. Smith, Des Moines, Iowa.
 April 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
 Apr. 28, Henry H. Kuper, Humboldt, Neb.
 May 20, A. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 2, J. G. Biller, Hartington, Neb., at Crofton, Neb.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 21, Jesse Binford & Sons, Liscomb, Ia.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.

HEREFORD CATTLE.

Mar. 1, 2, 3, C. A. Stannard, Emporia, Kan.
 Mar. 8-9, Funkhouser, Gabbert and others, R. T. Thornton, Kansas City, Mo., Mgr.
 Mar. 15, Brookmont Farm, Odebolt, Iowa.
 Mar. 16, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 April 16, James E. Logan, Kansas City, Mo.

DUROC JERSEY SWINE.

Mar. 9, Lien Bros., Platt, S. D.

JACKS AND JENNETS.

Feb. 28, J. W. Finley, Higginsville, Mo.
 Mar. 1 and 2, L. M. Monsees & Sons, Smithton, Mo.
 Mar. 3, Petty Bros., Sedalia, Mo.
 Mar. 15, G. C. Roan, La Plata, Mo.

PERCHERONS.

Mar. 11, P. W. Moir, Mitchell, S. D.
 Mar. 16, George W. Souers & Sons, Huntington, Ind.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 Fred S. Larkin, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address 2525 Erskine St., Omaha, Neb.
 A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
 E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

A few good Short-horn hulls are advertised for sale by Mr. E. B. Ryan, of Neola, Iowa, on page 57.

Mr. R. J. Harding, Macedonia, Iowa, advertises Duroc Jersey bred sows and gilts for sale on page 59.

Poland China bred sows and gilts are advertised for sale by Messrs. A. S. Juckett & Son, Fremont, Neb., on page 58.

Holstein-Friesian bulls and cows and heifers are advertised for sale by Mr. H. C. Glissman, Sts. B., Omaha, Neb., on page 57.

If you are in need of a good Scotch herd bull, or a thick-meated, blocky, all-red and dehorned steer bull, visit the Wildwood herd, or write Mr. W. W. Vaughn, Marion, Iowa.

Some strictly high-class Bates Short-horn hulls are advertised for sale by Mr. O. M. Healy, of Bedford, Iowa, on page 57. These hulls are bred in the most noted milking strains.

Some splendid Poland China sows are advertised for sale at bed-rock prices by Messrs. Williams Bros., of Villages, Iowa, on page 58. If taken soon they will quote the lowest possible price.

Mr. V. A. Lathrop, of Marion, Iowa, has a few good Chester White sows, safe in pig, that he is offering for sale at very reasonable prices. His advertisement will be found on page 58 of this issue.

Mr. F. W. McIntyre, Red Oak, Iowa, is advertising Poland China bred sows and gilts for sale on page 58. These sows are strictly all right and he is pricing them where anybody can afford to buy.

Master Walter Miller, Route 1, McGregor, Iowa, writes that he is desirous of purchasing a pair of Belgian hares. Any reader of The Homestead who can accommodate him will please write him, giving information as to the cost and other particulars.

Mr. Geo. W. Speirs, of Hedrick, Iowa, breeder of Duroc Jersey swine, writes as follows: "I have sold fourteen sows this month. All have come and selected their own goods. I have a few more left and some bred later that are not safe yet to ship. I have some summer and fall gilts, some good prospects in these. Spring gilts all sold, fall and up to three-year-old sows, one May King, quite a good one, bred to Ohio 38521." Kindly mention The Homestead when writing for descriptions and prices

of stock which Mr. Speirs has for sale at this time.

Poland China bred sows and gilts, open or bred, are advertised for sale by Mr. Herman Baltz, Fremont, Neb., on page 58. Prices on these sows are bedrock if taken soon.

Mr. J. P. Peterson, Herman, Neb., is making special prices on Duroc Jersey bred sows and gilts, and he is certainly offering some bargains. Mention The Homestead when writing him. See page 53.

Messrs. Schain & Keep, of Atlantic, Iowa, breeders of Hereford cattle and Poland China swine, are sold out of hogs for the present season, but still have a few extra good Hereford hulls, sired by March On 16th, Weston Anxiety and other great sires, for sale. They invite those in need of Hereford hulls to visit their herd or write at once. See advertisement on page 58.

Under recent date Mr. John Schmieder, breeder of Poland China hogs, of Remsen, Iowa, writes: "I have for sale some good Poland China gilts, sired by Large Dude and King Corrector, and bred to Schmieder's Big Expansion and Large Dude for March, April and May farrow. If taken soon I will make very reasonable prices on these gilts, as I need the room. They are good ones in every

ested in the best the breed has to offer should secure a copy of this book and if possible should visit the Clydesdale headquarters of America.

Mr. R. E. Crane, of Grand Mesdow, Minn., has for sale quantities of alsike clover and timothy seed of his own raising. He quotes reasonable prices on this seed and is willing to send samples to show that it is free from any foul seeds. Write for samples and prices, mentioning this paper.

Home-bred Percheron stallions and mares are advertised for sale by Mr. L. C. Barnett, of Indianola, Iowa, on page 60. He is pricing these stallions from \$500 to \$1,000 and he has some good ones. He raises his own horses on his own farm and therefore is making the lowest possible prices on these horses.

Messrs. P. S. & S. Barr, of Davenport, Iowa, write: "We have been having an excellent demand for Poland China gilts and our customers are writing that they are well pleased and are sending second orders. We have used heavy-boned old parents for the past twenty years for breeding stock and have developed hogs of strong bone and good constitutions. We still have a dozen choice gilts of 200 to 240 pounds, bred to first-class herd boars for April and May litters. Also a couple of good boars coming one year old.

NEXT WEEK'S SALE PROGRAM

Monday, February 21	Duroc Jerseys, Carey Cameron, Herman, Neb. Herefords, Swan Lundahl, Red Oak, Iowa
Tuesday, February 22	Duroc Jerseys, O. R. Stevenson, Quimby, Iowa.
Wednesday, February 23	Aberdeen Angus, Shropshires, Duroc Jerseys, L. L. Atwood, Langdon, Iowa. Duroc Jerseys, G. Van Patten & Son, Sutton, Neb.
Thursday, February 24	Chester Whites, J. H. Stewart, Dickens, Iowa. Duroc Jerseys, Geo. Briggs & Sons, Clay Center, Neb. Poland Chinas, W. W. Wheeler, Harlan, Iowa. Poland Chinas, Ruebel Bros., Marathon, Iowa.
Friday, February 25	Duroc Jerseys, Con McCarthy, Henderson, Neb. Poland Chinas, M. P. Hancher, Rolfe, Iowa. Short-horns and Poland Chinas, J. M. Stewart, Ainsworth, Iowa.
Saturday, February 26	Poland Chinas, J. W. Pfander & Sons, Clarinda, Iowa.

way." See Mr. Schmieder's advertisement on page 58 and write him for additional particulars.

Mr. Geo. Lippert, breeder of Hampshire hogs, Magnolia, Ill., writes that he is all sold out of gilts and yearling sows. He yet has for sale, however, some August and September pigs. He recently sold a 1908 sow to a party in Tennessee for \$125. See his new advertisement on page 58 of this issue.

Messrs. J. W. Troy & Bros., of Rose Hill, Iowa, announce in their advertisement on page 59 of this issue of The Homestead that they have a limited number of choice gilts, granddaughters of old Kant Be Beat, for sale. They are bred to Model Chief Gold, a full brother to Model Chief 2d, and are due to farrow in March and April. They are priced worth the money.

We wish to call the attention of our readers to the advertisement of Mr. Joseph Bouska, of Calmar, Iowa, which appears on page 59 of this issue. Mr. Bouska is offering for sale about thirty head of Duroc Jersey gilts, weighing better than 300 pounds, carrying excellent blood lines and bred for early farrow. He has taken special pains in his breeding operations to keep only those animals which possess size or promise to develop size. These are important points to the present day buyers. Write Mr. Bouska for prices.

Mr. J. C. Porter, of Ogden, Iowa, whose advertisement of Duroc Jersey hogs will be found on page 58, has for sale a most excellent lot of bred gilts. They will now weigh from 275 to 300 pounds. They are a choice lot and every one who goes to see them is pleased with them. Mr. Porter's sales have been quite satisfactory thus far. He still has a few more good ones that he will sell at prices much below the range at which the same quality is selling at public sales. For these special prices write to Mr. J. C. Porter, Ogden, Iowa.

Mr. W. H. Hszlet, of Leon, Iowa, who is offering an imported Shire stallion for sale at a bargain, in sending in copy for advertisement found on page 53 of this issue, writes: "This horse is A-1 in every way and is offered for no fault. The company wish to close out, as some of its members are leaving the state. Seldom Vulcan is a bright bay, has extra fine style, the finest of disposition and has proven an extra sure and precocious breeder." He will be sold at a bargain and Mr. Hszlet, secretary of the company, asks anyone in search of an animal of this character to write or visit him for the purpose of inspection.

Messrs. McLay Bros., proprietors of the Maple Lawn and Arngibbon Farms on Rock Prairie, near Janesville, Wis., have once more taken the lead in the matter of catalog publishing. For several years these breeders of Clydesdales have been pioneering a movement which should receive the hearty applause and co-operation of all breeders. They have been using nothing but actual photographs in illustrating their horses in the agricultural newspapers of the country, as well as in their annual catalogs. They have been breeding Clydesdales, the photographs of which did not require the retouching of skilful artists to make them presentable and attractive. This year's catalog has numerous illustrations made from photographs taken by Mr. James Z. McLay, the junior member of the firm. Every breeder of Clydesdales who is inter-

Write us and we can refer you to someone in your county who has purchased from us."

Messrs. E. L. Nagle & Son, breeders of Chester White hogs, at Deep River, Iowa, write under date of February 11th: "The fall boars which we advertise are a good, useful lot that have large bone, good backs and plenty of length. Five of them of September farrow, and good enough to head any herd, that will be sold at prices worth the money to those who come quick, as we want to make room for the coming spring crop." The advertisement of Messrs. Nagle & Son appears on page 58 of this paper.

In a recent letter with reference to his advertisement of Percheron, Belgian, Clyde and Shire horses on page 62 of this paper, Mr. E. J. Heisel, of Fremont, Iowa, informs us that he has sold an imported stallion to a Missouri buyer, four Percherons to Iowa men, one Shire stallion and two Percheron mares to parties from Alberta, Canada, and an imported Percheron stallion, two Percheron mares and one home-bred Clyde stallion to a buyer from the Philippine Islands. Our friends who have not yet selected horses for the season will do well to visit or write to Mr. E. J. Heisel, Fremont, Iowa.

Messrs. Taylor & Jones, importers and breeders of draft and coach horses, Williamsburg, Ill., advise that among recent buyers of draft stallions from their farm have been Messrs. Warren & Peckman, Somonauk, Ill.; Norwood Bros., Ankeny, Iowa; Messrs. Shuff, Perry and Bickerby, New Berlin, Ill.; John Pleinis, Stanford, Ill.; Richards & Jones, Caro, Mich.; M. L. Rea, London, Ohio; C. B. Teel, Ashmore, Ill.; Granville Kestling, Onward, Ind.; Still & Laughlin, Kirksville, Mo.; Geo. Walls, Paris, Ill.; H. J. Urish, Scranton, Kan.; Geo. W. Hone, Calgary, Canada; John Laughery, Besson, Ill.; Ben Jacobs, Hoopston, Ill.; Messrs. Griffith, Smith and Wilson, McNabb, Ill.; Alfred Butler, Chatham, Ill.; Allen Stewart, Altamont, Ill.; Mike Dacy, Reynolds, Ill.; L. Punderburgh, Osborn, Ohio; C. T. Fling, Breckenridge, Ill.; Dr. D. Sigler, Elwood, Ind.; Thos. Seaman, Mattoon, Ill.; Geo. Witherspoon, Princeton, Ind.; and Hon. Geo. B. Ross, Alden, Kan. Messrs. Taylor & Jones still have for sale a splendid lot of Percherons, Shires and Belgians, as per advertisement on page 63.

LINK'S BROOD SOWS FOR SALE.

Twenty-five very choice Duroc Jersey bred sows and gilts are advertised for sale at private treaty by Mr. T. J. Link, of Winterset, Iowa, on page 59. Mr. Link declared his sale off and is offering these sows at private treaty. He is therefore making special prices on them for the next thirty days.

POLLED DURHAM BULLS.

Mr. W. B. Bounifield, of Ottumwa, Iowa, advertises on page 53 that he has Polled Durham cattle for sale. These are double standard cattle of excellent foundation material and showing from three to five good polled top crosses. Mr. Bounifield in particular wants to sell a few good bulls. They range from eight to twenty-two months old, are in just fair breeding condition, grow, nice color and have excellent individual character. One of them is but three removes from Imp. Duchess 10th. Others have equally as good lines of breeding. Mr. Bounifield will quote prices on these cattle that will make them worth the money. He has a few heifers which will be sold at equally reasonable

prices. This gentleman breeds Percheron horses and Duroc Jersey hogs as well, although he has at present nothing to sell in these lines. With reference to the bulls, however, write Mr. W. B. Bounifield, Ottumwa, Iowa. Those who go to see them will find Mr. Bounifield at the First National Bank and as the farm is close to the city no time will be lost in looking them up.

BRED SOWS FOR SALE AT PRIVATE TREATY.

On page 58 Mr. Herman Baltz, of Fremont, Neb., is advertising Poland China sows at private sale. He is pricing these reasonably and furnishes pedigree when sow is sold. Write him about them and mention The Homestead.

HOME-BRED BLACK PERCHERONS.

As good a lot of black Percheron stallions as has ever been offered by Messrs. Rhea Bros., of Arlington, Neb., are now in their barns and ready to be shipped. They certainly have some good horses and they are pricing them where any farmer can afford to buy. If you want a home-bred stallion or a few choice mares you should go and visit Messrs. Rhea Bros. and inspect their horses. Read their advertisement on page 61 and write them for their prices on these horses.

THE LATEST FROM TRUMANS'.

Recent advice from Trumans' Pioneer Stud Farm, of Bushnell, Ill., contains the information that the importation which arrived January 27th are in prime condition and now ready for sale. The February demand it seems has been very good. Up to the present time a long list of the animals sold includes buyers from Iowa, Illinois and Nebraska. Prominent among the buyers were gentlemen who have been previous customers and who have not been able to be so well suited elsewhere. Our readers who are interested in Shires, Percherons or other imported draft horses will do well to send for the 1910 catalog, addressing Trumans' Pioneer Stud Farm, Bushnell, Ill. See page 63.

DUROC JERSEY BRED SOWS FOR SALE.

On page 53 of this week's Homestead Mr. O. E. Osborn, Weston, Iowa, advertises twenty head of well-bred Duroc Jersey sows for sale, due to farrow in March and April. Two of these are daughters of the great Ohio Chief and they are bred to the great young boar, Model Critic. Then he also offers six or seven gilts by Grand Commodore, bred to Model Critic. These sows and gilts are strictly all right and the breeding is as good as you can find anywhere. He wants to sell these sows and gilts and he is making the prices reasonable in order to move them. Kindly write him at once about these sows and mention The Homestead when doing so.

STEWART'S CHESTER WHITE SALE.

Mr. J. H. Stewart, of Dickens, Iowa, will hold a public sale of Chester White hogs on February 24th. Forty head have been cataloged for this sale and they are as fine a lot of spring gilts as the writer has seen go through any sale ring of the season. They have size, length, stretch, feet and legs and unequalled quality. They are mostly the get of White Oak 2d, he a son of the St. Louis World's Fair champion, White Oak. They will have been bred to White Rock and Onward. White Rock is strong in the blood of Joker and Combination, both of which were noted show-yrds winners. Onward is a hog of excellent lines of breeding. For copy of the catalog address Mr. J. H. Stewart, Dickens, Iowa. See page 55.

HOPLEY'S NEW IMPORTATION ARRIVES.

A cablegram just received from Mr. Peter Hopley, senior member of the firm of Messrs. Peter Hopley & Son, of Lewis, Iowa, states that he will arrive home about February 22d with thirty head of Percheron, Belgian and Shire stallions, and those who know Mr. Hopley can rest assured that these are high class in every particular. They have a splendid lot of stallions and mares now in their barns ranging from 1,850 to 2,100 pounds, and all coming three this spring. They have sixty head of stallions for their spring trade and anybody who wants something high class can certainly get it of the above firm. There is no better firm in the West than Messrs. Peter Hopley & Son and they will be pleased to show you their horses at any time. See advertisement on page 62.

PFANDERS' GIANT POLAND CHINAS.

The advertisement of Messrs. J. R. Pfander & Sons, of Clarinda, Iowa, on page 55, announcing a public sale of giant Poland China brood sows for Saturday, February 26th, contains but a hint of the volume of information that may be given out with respect to this offering. It has been a fact of not a little interest to the writer that at all the sales of Poland China hogs of this season the class of sows which resembled those of the Pfander herd were invariably the high-priced ones of the sales. This indicates an intense interest in big-boned, growthy Poland Chinas, and the spirited buying which has taken place at all these sales for the most growthy sorts is also an indication of the small number of the really desirable sort that goes into the sale ring. The Pfander giant Poland Chinas are bred for size. The printed pedigrees of the catalog show that this question of size has extended back for a number of generations. The arguments will be in favor of size in future. At the present time, however, there is not an offering that will go into the sale ring this season which will show the same uniform size from start to finish as do the lot of gilts that have been cataloged by the Messrs. Pfander. Some hint of the breeding of these hogs was given in the last issue of this paper. Further reference to that is not now necessary, but we are glad to add that the breeding is beyond question of the best sort. We want every reader of this paper, who is interested in good hogs and in big Poland Chinas in particular, to get a copy of the catalog. It contains, aside from pedigrees and complete individual descriptions, a number of testimonials from previous buyers that must be considered as strong evidence of the value of these hogs. While the Messrs. Pfander frankly state that the size which they have succeeded in producing is not consistent with the fine points of the show ring, they do urge that for pork-producing purposes it answers every require-

ment. Copies of the catalog may be had by writing Messrs. J. E. Pfander & Sons, Clarinda, Iowa. Those who are unable to attend in person may forward bids to Mr. O. C. Carlin, representative of The Homestead, in care of Messrs. Pfander.

A FINE STUD JACK.

Dr. Long, the stud jack held above price by Mr. W. J. Finley, of Higginsville, Mo., is shown herewith. The jennets that sell in



Mr. Finley's sale on Monday, February 28th, are bred to this great jack. See advertisement on page 60.

A LIVE AUCTION SCHOOL.

The advertisement of the Missouri Auction School appears on page 56. This institution is one of the successful ones in its line. The new term opens April 4th at Oklahoma City, Okla. The terms of this school are very liberal and certainly are entitled to the consideration of young men who expect to take up auction work. Perhaps the best testimonial which the school might be given is the fact that more than 120 students were enrolled for the January term. These came from Illinois, Kansas, Missouri, Iowa, Oklahoma, Nebraska, Ohio, Indiana, South Dakota, Minnesota, Michigan, Colorado and Wisconsin. For particulars write to Mr. William B. Carpenter, president, Trenton, Mo.

THE ATWOOD HERD DISPERSION.

Mr. L. L. Atwood, of Langdon, Iowa, whose advertisement of a great dispersion sale will be found on page 57 will, on Wednesday, February 23d, offer a consignment of Aberdeen Angus cattle of sufficiently good lines of breeding and individual merit to attract the attention of those who want the best there is in the breed. The foundation of Mr. Atwood's herd was laid from the Pierce herd of Illinois and later additions came from the best breeders of Iowa. At the head of the herd there was always maintained a bull of superior points of excellence and the very choicest lines of blood. Many of the cattle in the herd trace to the noted show bull, Prince Ito. They also carry the blood of other show-yard leaders. The herd has produced show animals that have gone into the strongest competition and come out with credit to themselves and their breeders. The major portion of these cattle are Blackbirds, Prides, Trojan Ericas and Queen Mothers, which are now of the sort most popularly demanded. The Shropshire sheep and Duroc Jersey sows enumerated in the advertisement are also of excellent lines of breeding and desirable animals. For detailed information write at once to Mr. L. L. Atwood, of Langdon, Iowa, asking for copy of the catalog.

HANCHER'S BIG FOUR SALE.

Mr. M. P. Hancher, of Rolfe, Iowa, sells fifty head of big Poland Chinas on the 25th of February. The consignment is made up of six tried sows, three fall gilts and forty-one spring gilts, daughters of Long Meter, Chief Tecumseh 4th, Crow's Model, Big Bone, Our Dude, Columbia Chief 3d, Smooth Wonder 2d and Hadley's Expansion. They will have been bred to Chief Price 2d, Columbia Chief 3d and Big Wonder. There is size in this line of breeding. Chief Price 2d is a grandson of Mr. Wheeler's A Wonder, that stands probably as the greatest of the big Poland Chinas. Columbia Chief 3d is a son of Columbia Chief 2d and also represents as large size as can be secured. Mr. Hancher believes that the forty-one spring gilts which he offers will be the largest lot that will go into any sale of the year, and states also that they will have plenty of quality and be very strong with reference to feet and legs. They are noted for the big four points of big type, big bone, big litters and big quality. The sale will be held on Mr. Hancher's farm, adjoining the town of Rolfe. The usual accommodations will be given. For catalogs write to Mr. M. P. Hancher, of Rolfe, Iowa. Mail or telegraph bids may be forwarded to Mr. A. T. Parker, representative of The Homestead, in care of Mr. Hancher. See advertisement on page 56.

PETTY BROS.' MAMMOTH JACK AND JENNET SALE.

Messrs. Petty Bros., of Sedalia, Mo., are going to put in their sale of Mammoth jacks and jennets on Thursday, March 3d, more jacks that won in the big jack show at the Missouri State Fair last year than are owned by any one firm. Seven prize winners are included among the twenty-five Mammoth jacks. The entire string is one that will please the most discriminating buyers. The fifteen jennets are good ones and have been bred to such jacks as Orphan Boy, the champion at the World's Fair held at St. Louis; Tennessee King and Prince Giant. Tennessee King is in the sale and is one of the greatest jacks to sell this year. At the Missouri State Fair last year he was champion and grand champion, fourteen jacks showing in the grand champion class. As this is the strongest jack show in the country Mr. Finley has good reasons for believing that no one has a better jack than Tennessee King. He is a three-year-old, is an exceptionally well-proportioned jack, has an ideal head and ears and a great, deep body set on good legs. The six other jacks will please the more discriminating buyers, as they are a quality bunch that have lots of scale and bone. Messrs. Petty Bros. are not offering a jack that they do not think will prove a profitable jack in the stud. All are broke, the most of them have proven good breeders, getting a very high-class lot of mules. As Messrs. Petty Bros. are in the business to stay they

feel the necessity of making their offering such that it will help to build their good business even larger. The sale will be held at their farm, two and one-half miles from Sedalia. Every arrangement is made for the comfort of visitors and they want everyone wanting jacks or jennets to send for a catalog. They have issued a neat booklet which tells of the offering and they will be glad to send you one if you will send them your name and address, mentioning this paper. See page 61.

RUEBEL BROS.' LAST CALL.

This is the last opportunity which The Homestead will have to call the attention of its readers to the great Poland China sale of Messrs. Ruebel Bros., to be held at Marathon, Iowa, Thursday, February 24th, as advertised on page 56 of this paper. Messrs. Ruebel Bros. are well-known breeders of Poland Chinas and from the start they have taken pains to cultivate and improve upon the larger type of that breed. During the first few years of their experience they did this against the advice of other breeders, but their course in sticking persistently to it has been demonstrated as a wise one. Today they have as much size in their herd as any other breeder, and better than that, however, is the fact that they have it because of persistently having bred along lines productive of size. It is, therefore, no accident with them, but a characteristic which will be carried on and on in the herds of those who buy the individuals offered at this sale. We will not go into details as to the lines of breeding involved in this offering. They have been given in previous issues of The Homestead and, therefore, do not need any repetition. It may be stated, however, that the animals carry strong infusions of the blood which made Mr. Peter Mouw, at the time when the size of his herd was a by-word. Messrs. Ruebel have always been sticklers for quality and finish along with their size and this sale consignment will be an excellent representation of their ideals. The sale will be held in a sale pavilion on the farm so that buyers will be comfortable no matter what the weather. The usual accommodations will be given at Marathon to those from a distance. Breeders will do well to remember that this is one of the series of three sales, that of Mr. Wm. Carey taking place at Ponda, Iowa, February 23d, and Mr. W. P. Hancher, of Rolfe, Iowa, on February 25th. For catalogs of this sale write to Messrs. Ruebel Bros., Marathon, Iowa.

FINLEY'S GREAT JACK AND JENNET SALE.

When the men who want Mammoth jacks and jennets have gathered at the sale to be held by Mr. W. J. Finley, at Higginsville, Mo., on Monday, February 28th, they will be confronted with the best lot of jacks they have seen gathered in a single sale for some time. Mr. Finley has always brought out good ones and for this event he has a superior lot. He offers in this sale thirty Mammoth jacks and fifteen jennets. The jacks are all the big kind, they have been selected especially for this sale, as Mr. Finley wants to give those who come to his sale a chance at as good jacks as are found. He has been unusually successful the past year, getting jacks of more bone, quality and substance than ever before. Mr. Finley has each season gone to Kentucky for some good jacks. He found in the sons of Dr. McCord (one of the greatest sires of prize winners) jacks that fill the demands of the more discriminating, and after several attempts Mr. Finley finally secured the great show jack himself. At the same time four sons of Dr. McCord were bought for this sale. As Mr. Finley did not want to be outdone he brought with these the great six-year-old Midland King, a mature jack that has few superiors. He has the scale and quality, the legs, the good head and ears and is without question one of the jacks every jack man pronounces a good one. Throughout the list is found jacks that merit the attention of the jack-buying public. Mr. Finley has paid particular attention to getting jacks with lots of bone and of good quality. A couple of years ago Mr. Finley bought the great jack, Dr. Long, one that should have gone to the large shows, but as Mr. Finley wanted to use him in the stud he was not shown. The jennets he sells are bred to this jack which adds greatly to their value. Those who get colts by Dr. Long will find they have made no mistake. Mr. Finley sells on the fair grounds, just a few blocks from the center of town. He wants everyone who is preparing to take in the great Missouri jack sales to come to his sale Monday,

see his stock, then if it pleases you buy at your own price. Every arrangement for your comfort is arranged for. He has issued an elegant catalog with pictures of most of the jacks. These were made from photographs and are as near true to life as is possible to get them. If you send him your name and address he will take pleasure in mailing you a catalog. See page 60 for Mr. Finley's advertisement and when writing him kindly mention this paper.

CRIMSON WONDER AGAIN BOARS.

Mr. H. S. Allen, of Russell, Iowa, makes a change in his advertisement on page 53 that ought to attract the attention of those who are in the market for Duroc Jersey boars of correct breeding. In his letter ordering this advertisement Mr. Allen says: 'The fall boars we are offering for sale are a grand lot, and we are frank to say that they are the best fall boars we ever had on the farm. At the present writing (February 10th) some of them will weigh right at 150 pounds. They were farrowed September 3d and 4th and are all sired by Crimson Wonder Again 40785, the champion boar at the Iowa State Fair, 1906. It was one of his sons, Crimson Wonder 3d, that won championship at the Nebraska State Fair in 1908. At the Iowa State Fair and also at the Nebraska State Fair of 1908 and 1909, the get of Crimson Wonder Again won forty-five prizes. The dams of the boars offered for sale are by Prince of Cols., Valley Chief and Advancer. We do not believe any breeder can beat this bunch of boars for size and finish. There are some cracking good ones in the lot offered, as well as some No. 1 herd boars. They will be priced to move, as we need the room. We also have a few good gilts bred to Crimson Wonder Again for May farrow, that can be bought worth the money.' At the public sales of the season of other herds the get of Crimson Wonder Again have met with a reception on the part of the very best breeders, which is the best indication of their value. At the recent Purdy sale at Mason City, Iowa, the two-year-old daughter of Crimson Wonder Again topped the week's offering at \$202.50. She was a show sow and carried many of the strong points that are prominent in the pigs now offered for sale. For special prices write Mr. H. S. Allen, of Russell, Iowa.

SUNNY SLOPE AND ITS HEREFORDS.

Sunny Slope Herefords are to be disposed of at public treaty on March 1st, 2d and 3d, and Mr. C. A. Stannard, of Emporia, Kan., the proprietor of this great plant, regrets more than anyone that this move is made necessary. As we have said before, Mr. Stannard's various interests take him from the farm so frequently and for such periods of time that he cannot devote the time necessary to keep the plant to the high standard that has made it so famous, and before it has had an opportunity to recede from this standpoint Mr. Stannard has decided to sell the cattle and the farm. Sunny Slope Farm comprises 970 acres of as good land as is found in central Kansas. The farm was improved and modeled for a breeding plant for cattle and swine and every improvement such as barns, hog houses, etc., were made with a view of permanency and convenience. The land was greatly improved as a result of the fertilizer obtained from the large number of head of live stock kept at Sunny Slope. Mr. Stannard offers the Sunny Slope Farm for less money per acre than neighboring farms are selling for and they without half the improvements. On top of this the advertising and standing of Sunny Slope Farm as a breeding ground for pure-bred live stock should be worth much if someone would come forward and buy the entire plant and continue it as a breeding ground for pure-bred live stock. The herd of Herefords number about 250 head (calves included) and is as great a herd of as well-bred cattle as it is possible to find. Great sires have done service at Sunny Slope. Their influence as sires has left an impress that cannot be gained excepting after years of careful handling and probably not then in so marked a degree as at Sunny Slope. The thirty bulls are good. Among them are bulls that should go to good herds where the very highest class of sires is needed. The females are the sort that produce good individuals and among them are many that Mr. Stannard would not part with were he not dispersing the herd. The entire show herd goes and several members of it were always up to the front at every show of last season where shown, and this was the first Sunny Slope show herd that had been out for the past few years. Those looking for choice show stuff, choice breeding

matrons or grand herd bulls are not often confronted with such an opportunity. The breeding is right, the cattle are right and the time to buy was never nearer right than now. For catalogs and more complete information address Mr. Stannard as per his advertisement on page 51 and kindly mention this paper.

THE BROOKMONT HEREFORDS.

The advertisement of the Brookmont Herefords on page 52 of this paper outlines a few facts that will bear careful consideration by every farmer without regard to whether he has been giving particular attention to cattle raising or not. It is a fact beyond argument that the farmer of the West must raise cattle. The question which remains then is as to the breed which he should select. Recent public sales have given an interesting pointer on this question. The dispersion of the Wheeler herd, at Harlan, Iowa, last week, brought an average of something over \$142 per head, which was decidedly in advance of nearly all sales of recent date of whatever breed. The Brookmont Herefords are high class. The present herd is the result of profound study and the investment of unlimited capital. The animals offered for sale will compare well with those of the best herds of the land. They have been bred for beef-making purposes rather than for the show ring and, therefore, they will answer the purpose of the common farmer more nearly than those which have been produced for exhibition purposes. Better than all that, however, is the fact that they are healthy. They are sold as tested and absolutely free from any tubercular affection and the methods of conducting the herd have been such as to insure thrift, growth and hardy ruggedness. Mr. Cook, the proprietor of the Brookmont Farms, gives a most cordial invitation to every one to visit Brookmont and make a personal investigation of the statements that have been made concerning the Brookmont Herefords. He will be glad to meet visitors at trains if notified. Address Mr. A. E. Cook, Odebolt, Iowa.

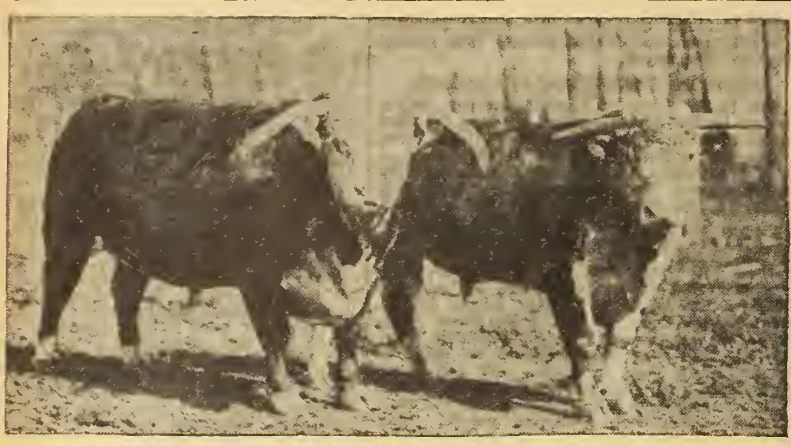
LAST CALL FOR CAREY CAMERON'S OUTSTANDING DUROC JERSEY SALE.

What we think is the best offering of Duroc Jersey spring gilts that we have ever seen going into one sale is the offering that Mr. Carey Cameron, of Herman, Neb., will sell on February 21st. Forty-one head will be sold—every one a spring gilt weighing from 300 to 375 pounds, the most uniform bunch we have ever looked at, considering that every one is of spring farrow—and what growth they have for their age. Another thing that appeals to us about this offering: this growth has been put on by a master hand and they are absolutely right for the man who buys them. There is not a poor gilt in this sale. They are sired by Critic's Model, an outstanding son of Glendale Critic and one of the best boars individually in the state of Nebraska. He is out of a Malcolm's Model dam, he by old Top Notcher, so you see his breeding is as right as his individuality. Here is a boar that has all kinds of size, plenty of bone, good quality and an outstanding breeder. His gilts in this offering will show for themselves on day of sale and eighteen sows are bred to him in this sale. We could do our friends no better service than to urge them to buy a sow bred to this boar. The rest of the offering is sired by Russell's Choice, a son of old Crimson Wonder, and he was a boar that Mr. Cameron used for several years with the greatest success in his herd. Then there are quite a number in the sale that are sired by Gold Dust Wonder, a son of Nona's Choice, out of Gold Dust Belle, she by Gold Dust Jim, as good a sow as was ever sired. Some of the very choice gilts in this sale are sired by this boar. One of the very best litters in the sale is sired by the latter boar—Nos. 5, 6, 7 and 8. These are out of Critic's Anna, one of the very best daughters of old Glendale Critic. These gilts will average 325 pounds by sale day and there were fourteen pigs in the litter. No man can go wrong who sends a bid on any one of this litter. Then there is a litter by Russell's Critic out of Model Anna, she by Malcolm's Model, that are extra choice, and these will average 360 pounds by sale time. These are all bred early for a March litter to Gold Dust Wonder and Gold Dust, the latter being a son of Gold Dust Jim 3d. Then there are two outstanding gilts, Nos. 13 and 14, by Critic's Model out of Jenny Lind by West's Duroc, that will weigh 375 pounds by day of sale and these will not be fat. They have the growth, however, that the boys all want, and this is what gives them the weight. These are strictly all right and will make great brood sows. Another great litter by Critic's Model is Nos. 17, 18, 19, 20, 21 and 22, out of Betty Green by Gold Dust Model. These gilts will average 350 pounds. These are but a few of the choicest gilts that Mr. Cameron will sell. We don't remember that we ever before saw forty-one head of spring gilts in one sale that will average up with this bunch and this is a broad statement for us to make, and we stand by every word of it. We don't want to make mention of the other good things in this offering because they are so near alike that there is not much difference between any of them. We will say this, that any man who wants to buy a few choice sows cannot do better than to attend the Carey Cameron sale or be represented there with a bid on sale day. He is also selling five choice young Short-horn bulls. These are all sired by the Cruickshank bull, Butterfly Chief and they are out of some of the most select cows in the Cameron herd. No. 1 of the hull catalog is a very choice June calf out of a daughter of the noted Harris-bred bull, Lochinvar. This bull is a rich red in color with a most excellent head and horn, good spring of rib and depth of quarter—in fact he is a splendid young bull in every way and will make a good herd bull for somebody. His thickness and deep fleshing qualities will recommend him to anyone who wants a good bull. There are a number of other good bulls in this bunch and among the lot is a straight Scotch—a Cruickshank Butterfly. Those of our readers who are needing some good Duroc Jersey sows or some young Short-horn bulls should attend this sale, or if you cannot be there in person should be represented by a bid. Our Mr. M. T. White will attend the sale for this paper and will attend to any bids sent to him in



The above picture represents the difficulties encountered by Hupmobiles which were driven in mid-winter from the motor car company's factory at Detroit to the automobile show at New York. The trip was made late in December at a time when the thermometer was registering considerably below zero. The three Hupmobiles made New York in ten days from Detroit, none the worse off for their journey. It would have been impossible to have found more unfavorable conditions to test an automobile. The successful accomplishment of this strenuous task by these cars indicates they are well suited to the farmer and will enable him to go to town or make trips in the most severe weather. A large advertisement descriptive of this car appears on page 11 of this issue.

BROOKMONT HEREFORDS OF WORLD-WIDE INTEREST



BROOKMONT HERD BULLS, SAILOR AND GARDEAU

Mr. Cameron's care. Remember the sale will be held on February 21st. Kindly mention The Homestead when writing for catalog. See page 55.

THE DISPERSION OF SUNNY SLOPE HEREFORDS.

We hear many expressions of regret that this great herd of cattle is to be dispersed, and that what has been one of Kansas' most potent factors in improving the cattle of the state will be no more. For years Sunny Slope has stood as one of the leading Hereford breeding establishments in America. It would be beneficial to the live stock interests of the country if some of our energetic young breeders of Herefords would come forward and buy this farm and continue it as a Hereford breeding establishment. It seems a pity that all the money spent in advertising and building up the reputation of this farm should be lost and it will be difficult to think of it as other than "The Home of the Herefords." So we hope someone will come forward and buy the great farm and continue it as it has been in the past. What an opportunity it is for some energetic breeder to buy this farm, thereby getting a prominence in a day that otherwise it might take him a lifetime to attain. Who will grasp the opportunity? The cattle to be sold are in the best of condition for the buyer. Good, strong, thrifty condition, not too fat nor too poor, but in the best possible condition for their future usefulness, and we believe it to be one of the most valuable lots of Herefords ever offered at auction. The get of Beau Mystic is especially good and we hope that a good part of this great herd of cattle may be sold to Kansas breeders and farmers. The cattle will be sold March 1st and 2d, the horses and farm machinery on the 3d of March. See advertisement on page 54.

LIMESTONE VALLEY FARM'S THIRTY-THIRD JACK AND JENNET SALE.

The thirty-third sale of jacks and jennets to be held at the Limestone Valley Farm, on March 1st and 2d, by Messrs. L. M. Monsees & Sons, of Smithton, Mo., is the blue-ribbon event of the career of these gentlemen in the jack and saddle horse business. The 100 head of jacks, jennets and registered saddle horses listed for this event are a superior lot. More of the blood of the champions of two World's Fairs is found in the offering than has ever gone in a sale of this character. Mr. Monsees and his sons have labored industriously for years, breeding for a class of jacks and jennets that in their opinion would outclass any lot ever gathered for a sale and they now say, "Come, see our stock and pass judgment." In the catalog, which is a most interesting eighty-six-page book, you will find pictures of Limestone Valley Farm, its stock offered for sale, of the senior Mr. Monsees, his good wife and his three sons. You should also read his letter of welcome and the announcement, as Mr. Monsees has told in his modest way just what he has accomplished since the start as a boy, and now that he has reached the top he wants all who possibly can to come to the sale and see how well this work has been done. Never before has this firm been in position to offer so much of the blood of Limestone Mammoth and Orphan Boy, the two World's Fair champions—Limestone Mammoth at Chicago in 1893 and Orphan Boy at St. Louis in 1904. There will be jacks and jennets in the sale by each of these great sires. There will also be jacks and jennets in the sale that have for their sire Orphan Boy and for their dam a Limestone Mammoth jennet. The Limestone Mammoth jennets have been bred to Orphan Boy. Seven jennets have Orphan Boy colts at foot. These should be appreciated. The stud of registered saddle-bred horses should not fail to attract the saddle horse men of the country, as in this stud another World's Fair champion has played an important part. The stallion, Limestone Artist, that stands at its head was got by the Champion World's Fair champion, Artist Montrose. He is a beautiful bay with black mane and tail, stands sixteen hands high, weighs 1,200 pounds and shows seven distinct saddle galls. He has proven a great sire and is one of the best in the country. Remember the saddle horses and the aged jacks sell on Tuesday, the first day of the sale. Barytone Mammoth, the great three-year-old jack by Orphan Boy and out of the show jennet, Julia Small by Limestone Mammoth, sells on Tuesday, the first day. Kentucky King 2d, an Illinois winner that has never been defeated, is also among them. Then there is also the great two-year-old High Hall that stands six feet and one-half hands high, tapeline or jack mare. Pike's Peak, a three-year-old, and the Oak Mammoth, both sixteen and one-

half hands high, are also jacks that will please those who like the great big ones. On the second day the young jacks and jennets sell. This is Limestone Mammoth and Orphan Boy day. It will be a day that is chock full of good things for the men wanting jacks and jennets rich in the blood of these champions. Messrs. Monsees & Sons want to send you a catalog and will if you will send them your name and address. See page 53 for their advertisement and when writing them kindly mention this paper.

LAST CALL M'CARTHY'S DUROC SALE.

In the sale of Mr. Con McCarthy, at Henderson, Neb., on February 25th, will be thirty-five head fully up to the standard of anything offered in the fore part of the week. While Mr. McCarthy is one of our younger breeders, no one can gainsay the fact that he is also among the leaders of the entire state. His offering consists of three aged sows, ten yearlings and twenty-two gilts, sired by such leading sires as Improver II., Lincoln Wonder, Ohio Chief, Kant Be Beat, Kant's Echo, Cherry Boy, Ohio Chief I Am, McK's Improver, Glendale Critic 2d and Beat My Dad, an outstanding breeding son of Kant Be Beat. They are bred to Lincoln Wonder, McK's Improver, King Wonder and Beat My Dad. While there are several that stand out as attractions, and they will stand out as attractions of the entire week, it is not necessary to go into detail. Mr. McCarthy is a prince among men and is offering an outstanding class of sows of the sort that should find ready buyers among leading breeders of the corn-belt states. Lincoln Wonder has few, if any, superiors as a sire, and a great many are either by him or bred to him. Daughters of Ohio Chief and Kant Be Beat and Improver II. also appear on the list of attractions, as well as Ohio Chief I Am and McK's Improver. The catalog is now ready and may be had upon application to Mr. McCarthy, mentioning The Homestead. Bids should be sent to Mr. Fred S. Larkin, of The Homestead, and they will be handled fairly. See page 59.

ATWOOD'S DISPERSION OF ANGUS, SHROPSHIRE AND DUROCS.

Mr. L. L. Atwood, of Langdon, Iowa, will disperse his Angus cattle, registered Shropshire sheep and Duroc Jersey bred sows and gilts, and his reasons for so doing are that he has rented his farm for a term of years, and is quitting the farming business on account of his and his wife's health, and Mr. Atwood regrets very much to have to make this announcement, as his good Angus herd was the pride of his life. The offering of Angus cattle consists of forty head, seven Blackbirds, four of the cows with calves at foot, and most of them are due to calve soon after the sale; seven Trojan Ericas, three with calves at foot; ten Prides, six with calves at foot; fifteen Queen Mothers, six with calves at foot; four Antelopes, and others. These are the daughters of the best bulls in the land, such as Elmer Lad, Prince Albert Ito, Gay Ambler, Piphedro, Longbranch Rosegay, Cranewood Black Knight, Blackwood Lad, Baron Black Cap, and others. The calves at foot are the get of Even Lad and other good ones. This will be a very select offering of Angus cows and heifers and should command the attention of every breeder in the land. This offering is not a draft from the herd, but the entire herd that Mr. Atwood has kept on the farm for his own special breeding purpose, and every cow in the herd is a working cow. There are only three young bulls in the offering. Two of them are the young herd bulls and the other one is a fourteen-month-old calf. The Shropshire sheep offering is thirty-five registered Shropshires. Some are breeding ewes and all safe to lamb in the months of March and April. There are also ten last year ewe lambs in the offering, and three registered bucks. This is a very select lot of Shropshire ewes and bucks. Several of them are imported and cost Mr. Atwood a long price, and those interested in good Shropshire sheep should not fail to attend this sale. The Duroc offering consists of twenty head, ten tried sows, ten spring gilts, all bred. The aged sows are bred to Ohio Chief 3d, one of the best Duroc Jersey boars in the land. He is also included in the sale, and if you want a good one, be on deck for him. The gilts are bred to Proud Lad, he by Orion. This is an extra good offering of Duroc Jersey bred sows and gilts, and if Mr. Atwood were not dispersing his herd and leaving the farm, you could not buy a single one from him. This will be Mr. Atwood's entire offering for the first day's sale, of all his pure-bred stuff. On

THE packer always discriminates in favor of good cattle when he goes into the market. He does so because they make more money for him than any other kind. The farmer who is alive to his own interest will raise the kind of cattle the high-priced buyer wants. That is what Brookmont Farm has been doing. That is what any farmer may do who will buy a start of the famous Brookmont Herefords. We have bulls, cows and heifers for sale. The prices will be made to suit present conditions. Make us a visit and look over the herd.

THE BROOKMONT FARM,
A. E. COOK - - ODEBOLT, IOWA.

the following day he will hold a general farm sale. There will be fifteen head of horses and colts; eleven head are heavy draft horses, seven of them being mares, four with foal. The balance are colts. There are twenty-five head of good stock cattle, consisting of cows, heifers and steers, and seventy-five head of stock hogs of various sizes. About seventy-five tons of good hay will be sold on that date, and all of the farm machinery. Mr. Atwood's catalogs are now ready and may be had for the asking for them. The farm is located one mile west of Langdon and six miles north of Spencer. There will be free accommodation to and from the farm from both points and free hotel accommodations at the Central Hotel, at Spencer, for foreign visitors. For catalogs address Mr. L. L. Atwood, Langdon, Iowa. Col. Silas Igo, Clara Binnie and C. M. Pinneo are the auctioneers. See page 57.

BRIGGS & SON'S LAST CALL.

Messrs. Geo. Briggs & Son, of Clay Center, Neb., who sell the day following the Van Patten sale, on February 24th, are putting up an offering of forty-five head of gilts, the tops of more than 100 head, a lot that will surely sustain any claims they may make for them. They are large, roomy, growthy, breezy gilts, having been grown with just such a ration of alfalfa and other balanced foods as their long years of experience has taught them produced the most useful animal of size, bone and constitution. The blood lines represented are without a superior. Chief among the sires are Lincoln wonder, a boar whose popularity is but barely begun; Cherry Boy, a son of Improver II., which has been making good for several seasons; McK's Improver, another useful son of Improver II.; Kant's Improver, and Billie K's Model. The sows are bred to Lincoln Wonder, Cherry Boy, McK's Improver and Briggs' Wonder for March and early April farrow. Among the very tops of the offering is a litter by Lincoln Wonder, out of Clay Center Belle III. by Morrison's Belle Top and the champion sow, Clay Center Belle. They are extra good on feet and bone and big, breezy-looking gilts of early farrow. Another top litter is by Billie K's Model and out of Clay Center Belle II., a litter sister to Clay Center Belle III. In fact, the top gilts of the sale are by Lincoln Wonder. He gives them more bone and short pasterns and helps backs and hams. The catalog, which is now ready, is replete with full information and may be had upon application, mentioning The Homestead. Bids sent to Mr. Fred Larkin will be handled in fairness to all. See page 59.

LAST CALL VAN PATTEN & SON'S DUROC SALE.

Messrs. G. Van Patten & Son sell at Sutton, Neb., on February 23d, one of the choicest offerings of breeding stock that has ever been put out from the Golden Rod herd. In this sale will be twenty-three yearlings and seventeen gilts, a lot of useful, well-grown stock of such character as merits the patronage of men who are seeking animals with which to upbuild their herds. The records of the herd at the Nebraska State Fair show that in nine years' showing they have won ten sweepstakes ribbons and more than 100 other ribbons. The animals, it will be found, were almost invariably bred at home. The yearlings are daughters of Medoc, the greatest breeding son of Kant Be Beat; Advancer III., Kant Be Beat, Tom Davis, Red Wonder, Echo Top and Advance, every one of which is recognized as a top notch sire. The gilts are by Echo Top King, Davis Chief, Belle's Chief I Am, Crimson Wonder 3d, Kant's Echo, Advancer 3d and Medoc. Fancy Alice, one of the most profitable brood sows on the farm, is the mother of a couple of yearlings by Medoc that are very choice. About as choice a sow as sells is a Tom Davis sow out of Lady Maid II. by Billie K. Rose Improver, a great brood sow by Improver II., is the mother, and Medoc the sire of a couple of yearlings that are very stylish and are grand brood sow prospects. Three daughters of Kant Be Beat, and every one a good one, are out of three of the choicest sows on the farm, Red Molly, Model Belle 1st and Daisy K. 3d. Among the very choice gilts is a daughter of Rose Improver and sired by Davis Chief, a prize-winning, worthy son of Ohio Chief. A Medoc gilt is one that shows as an attraction, and a daughter of Echo Top King and Model C. by Billie K. They are bred to Medoc, Davis Chief, Echo Top King and Golden Rod King, a combination that are among the top sires of the breed. Catalogs are now ready and may be had upon application to Messrs. Van Patten & Son, mentioning The Homestead.

\$1000⁰⁰
IN PRIZES

To be Given Away.
Contest FREE and open to everybody. Help the "100,000 Club" and earn big reward. Write today for particulars. Contest conducted by The Fruit-Grower, St. Joseph, Mo. Box 127.

First Prize \$500 Auto
Brush Runabout shown above
Second Prize \$100 in Cash
Ten Other Prizes Ranging from \$75.00 to \$25.00 Each

The Fruit-Grower is the world's leading fruit and farm magazine. January Special Spraying Number February Gardening Number; either issue worth a dollar—sample free. The "100,000 Club" is a National Organization to benefit fruit growers in a practical way. Everyone will want to join. Send coupon today, get busy and earn a prize.

The Fruit-Grower, Box 127, St. Joseph, Mo.
Tell me how I can earn the Auto or Big Cash Prizes.

Name.....
Town..... State.....

Bids should be sent to Mr. Fred S. Larkin, Homestead representative. See page 59.

ENGINE OF ALL WORK.

Some people seem to have the impression that the famous Fuller & Johnson pumping engine can be used only for pumping water. While this engine does successfully do away with the back-breaking wrestling match with the pump it also does a number of other things. In fact, it can almost run the farm. On another page of this issue an illustration is shown in an advertisement where the engine is running a washing machine, a cream separator and pumping water all at the same time. Look up the advertisement of Fuller & Johnson, 709 Main St., Madison, Wis., on page 2 of this issue.

A GRADE STOCK SALE.

Mr. Chas. Irvine, of Ankeny, Iowa, will, on February 23d, hold a public sale at which he will dispose of a considerable number of grade horses, cattle and hogs. The more attractive portion of this offering includes a number of high-grade mares, extra good, some of them bred to Robert II. DeRum. This horse, it will be remembered, was reserve champion Belgian at the Iowa State Fair last fall. Mr. Irvine has for sale a considerable number of imported Belgian mares which have been bred to Robert II. DeRum or to Coquet, the second a prize winner at the Iowa State Fair, having taken second place there for two years in succession. Mr. Irvine invites those who are looking for imported mares to visit him on day of this sale, when he will take special pains in showing not only the animals to be sold, but the imported stallions and mares mentioned as well. They are a splendid lot, equaling those that may be procured from the barns of any importer and all of them prize winners. The older mares are broken to work and are in every particular in an ideal breeding form. Any information concerning these imported Belgians may be had by writing to Mr. Chas. Irvine, Ankeny, Iowa. All trains and cars will be met at Ankeny and a liberal free lunch will be provided at noon on sale day. See page 60 for advertisement.

THE LAKESIDE CLYDESDALES.

Mr. Len H. Lamar will, on Wednesday, March 2d, sell forty-five head of registered Clydesdale stallions and mares at the Lakeside Farm, adjoining Storm Lake, Iowa. Thirty-five of the lot will be big, strong, thrifty brood mares from three to six years old, weighing from 1,500 to 1,800 pounds and bred to some of the best sires of the United States and Canada. These mares have all been wintered on the Lakeside Farm and are, therefore, thoroughly acclimated and ready for work. They have been working regularly, as well as raising colts. There will be ten head of yearling weanlings that will be good propositions for those who care to buy and grow them out to sell next year. There will be one three-year-old stallion and one yearling stallion. Many of these mares have been bred to Quality Pride, one of the best stallions in America, and a winner of first in class at the International Live Stock Show of 1909. He was also a winner at the New York Horse Show where he was sold for \$6,500. Others of these mares have been bred to McQueen, the undefeated champion and greatest sire of the breed in America. There will be six or seven daughters of the great McQueen. Mr. Lamar advises us that

TWO DAYS' GREAT SALE 33d Annual Sale

LIMESTONE VALLEY FARM, TUESDAY AND WEDNESDAY, MARCH 1 AND 2, 1910

100 HEAD HIGH-CLASS, REGISTERED JACKS JENNETS AND Saddle HORSES

TWENTY HEAD OF THE BEST AGED JACKS THAT YOU EVER SAW TOGETHER. TWENTY HEAD OF THE BEST BREEDING JENNETS THAT YOU EVER SAW TOGETHER, and now in foal to the WORLD'S GRAND CHAMPION JACK, ORPHAN BOY 696.

FORTY HEAD OF THE BEST YOUNG JACKS and JENNETS That You Ever Saw Together, Sired by the TWO GREATEST JACKS in the WORLD, LIMESTONE MAMMOTH 298, and ORPHAN BOY 696.



All Sired by Limestone Mammoth 298 and Orphan Boy 696—All in the Sale.

20 HEAD HIGH-CLASS, REGISTERED Saddle HORSES

We live in MISSOURI and are ready to "SHOW" YOU, and if you will come and see and we do not MAKE GOOD, we WILL PAY YOUR EXPENSES and we do not care WHAT PART OF THE WORLD you come from—a proposition made by NO OTHER BREEDER OR DEALER IN THE WORLD.

Farm two miles north of Smithton, main line Missouri Pacific railroad and six miles east of Sedalia, Pettis county, Mo., main lines Missouri Pacific and M., K. & T. E. R.

A special train from Sedalia to Smithton and return each day of SALE. Free conveyance from Smithton to sale. If interested, please write for illustrated catalog, as we can send catalogs to those only who write for one.

We shall be pleased to have you attend this GREAT SALE. You will not be disappointed, but highly pleased.

L. M. MONSEES & SONS, SMITHTON, MISSOURI.

there will not be a cull in all this consignment and that the offering will be the greatest that has ever been presented in northwest Iowa. They are all American and Canadian bred and, therefore, fully acclimated to the country. Catalogs are now ready and may be had by writing to Mr. Len H. Lamar, Storm Lake, Iowa. See page 55 for advertisement.

TAIT'S CLYDESDALE SALE.

Mr. John S. Tait, of Ames, Iowa, will offer for sale at public auction on Thursday, February 24th, a splendid lot of imported and home-bred Clydesdale stallions and mares. This is one of the good lots of Clydesdales that will be sold this season. Mr. Tait is a native of Scotland and has personally selected the imported animals which go into this sale and has bred the balance. There is yet time to get catalog. Look up the advertisement on this page of this issue and plan to be present sale day. Kindly mention The Homestead when writing for catalog. A number of the stallions and mares were winners at the Iowa State Fair, insuring individual excellence of the highest character.

HARTUNG'S DUROCS.

Mr. W. J. Hartung, breeder of Duroc Jersey hogs, at Maxwell, Iowa, writes under date of February 12th as follows: "My bred sows are coming along well and I have still for sale twelve extra good ones. I have several Golden Model 2d gilts, extra good ones that are fit to go anywhere. They are out of an Ohio Chief-bred dam and have been bred to W. J.'s Colonel. I have other sows equally as good by S. E.'s Junior Jim and bred to Golden Model 5th, a son of Golden Model 2d. These gilts will bear close inspection and they will be priced worth the money, quality considered. I urge buyers to come and see them if possible. If it is preferred to order by mail, however, I will guarantee a square deal and right treatment. Two fall yearlings in this lot are especially fine ones." Mr. Hartung is also offering for sale in his advertisement on this page Swedish Regenerated select seed oats at the rate of \$1 per bushel or ten bushels for \$9, sacks free. These oats made a yield of sixty bushels per acre last year. For special prices on the hogs write to Mr. W. J. Hartung, Maxwell, Iowa.

WILL YOU BUY A WINDBREAK?

We will take the liberty of answering the question for you. Yes, you will, if you have any possible use for one. If you would take a trip with Mr. N. E. Ferris, manager of the Bristow Nursery Company, Hampton, Iowa, through that section of the state where his nursery is located, we have not the least doubt about your saying we have answered the question correctly. You will be compelled to travel a long distance before you see a more beautiful part of the country than this and it is due to a very large number of beautiful windbreaks distributed here and there. Mr. Ferris can point to nearly any one of these and say, with just pride, that nearly everyone of them came from his nursery. You will be still more convinced that you should have a windbreak and that you should buy it from the Bristow Nursery when once you stop to talk with one of the owners. To a man they will say, "Buy your trees of Ferris. He will treat you right and guarantee every tree." He would state the situation only mildly. Mr. Ferris puts a guarantee that means something on every tree that leaves his nursery. He guarantees them not only to leave the nursery as represented, but to reach their destination in growing condition. Then he practically guarantees the life of the trees by making one of the most liberal "replacement offers" ever put out by any nurseryman. Mr. Ferris is offering this year a very special price, freight prepaid, on his hardy evergreens. It is a big bargain for any farmer interested in a good windbreak. These trees have been cultivated by Mr. Ferris' own method which results in a very large, healthy root system. The Homestead takes great pleasure in commending the efforts and their results of Mr. Ferris. Write him at once for his special offer, for his stock is limited. If you failed to see the list of spe-

cial bargains that appeared in the February 10th issue of The Homestead you should consult it at once. In this advertisement he offered twenty bargains which will interest you. They are not all evergreen bargains, but consist of nursery stock of all kinds. Write Mr. N. E. Ferris, manager of the Bristow Nursery Company, Hampton, Iowa, who will give his personal attention and gladly answer all questions regarding nursery stock, whether you buy of him or not. He is authority on nursery questions. See his advertisement on page 26 of this issue and mention The Homestead, please.

SCIENTIFIC SHOES.

Mr. N. M. Rnthstein, of the Steel Shoe Company, of Racine, Wis., has put another shoe on the market which promises to be as successful as the famous steel shoe which has become very popular with farmers, sportsmen, stockmen, dairymen and all other people who have to work out of doors in rough weather. The new shoe known as the Scientific Shoe is made of process leather and it is claimed it will wear three times as long and give considerably more comfort than ordinary shoes. This shoe meets the needs of all classes of men—business men, farmers, mail carriers, etc. More about this shoe, as well as new features concerning the famous steel shoe, can be learned from the page advertisement of the Steel Shoe Company, Dept. 382, Racine, Wis., which appears on the last page of this paper.

AN IMPORTANT SHORT-HORN AND POLAND CHINA SALE.

One of the important events of the year in both Short-horn and Poland China circles is the public sale of Messrs. J. M. Stewart & Son, at Ainsworth, Iowa, on Friday, February 25th. Both breeds have been selected with great care for this sale and those present sale day will not be disappointed in any way. Every Short-horn female will either sell with calf at foot or is well along in calf to the International winner, Scottish Lad, the bull which has been used with good success in this herd. The bulls will suit buyers in search of herd-header material and while no effort has been made to put the cattle in high flesh they will go into the ring in condition to do the buyers the most good. The Poland China consignment is made up largely of gilts safe in pig for March and April farrow to boars that have been bred along popular big-type lines for generations—Standard Major 154655 and Chief I. X. L. Jr. 154651. This last named boar was the top pig in the noted big-type sale of Mr. W. H. Cooper, of Hedrick, Iowa, last fall and his sire weighs nearly 1,000 pounds and is the smoothest big-type boar the writer has seen this season. Mr. Stewart is one of Iowa's constructive breeders and the offerings of both breeds are the products of his own herd. Look up the advertisement on page 55 of this issue and write for catalog, mentioning The Homestead. Bids sent to Mr. Dante M. Pierce will be properly handled. Plan to be present sale day.

HOG SERUM WORKS CURE.

Proof of the effectiveness of the serum treatment in hog cholera, which is killing thousands of hogs in Kansas, was shown to Nebraska farmers last summer in an experiment with it on the farm of R. E. Grinstead, near Salem, says a daily newspaper.

Mr. Grinstead is a progressive farmer, and when cholera broke out in his neighborhood last spring he asked the representative in congress from his district to have the department of agriculture assist in checking the disease. Mr. Grinstead offered to supply the hogs needed for the test.

At Mr. Grinstead's request Dr. W. B. Niles, who conducted the experi-

TOO LATE TO CLASSIFY.

Colorado Irrigated Land

22,000 acres of irrigated Government land in Southeastern Colorado has recently been opened for entry under the provisions of the Carey act. The State of Colorado has contracted with the Two Buttes Irrigation and Reservoir Company to construct the irrigation works for the reclamation of this tract of land, which is located in Baca and Prowers counties, close to Rocky Ford and other proven districts. Water rights are of incontestable priority and title to land comes direct from the State.

Price of Land 50 Cents Per Acre Perpetual Water Right \$35 Per Acre

Payable \$5.25 per acre cash, balance in ten annual payments. The tract is nearer Kansas City and Mississippi Valley markets than any other Carey act project. Land free from brush and stone, and soil will average 50 feet in depth. Altitude, 4,050 feet; climate best in State; rainfall 16 inches; crops, all grains, alfalfa, sugar beets, vegetables and fruit; no alkali. Local markets for everything. No agents employed and no commissions paid. Farmers wanted, not speculators. For particulars write,

THE TWO BUTTES IRRIGATION AND RESERVOIR CO., LAMAR, COLORADO.

PUBLIC SALE

CLYDESDALES

At Ames, Iowa, on
Thursday, Feb. 24, 1910

A splendid lot of imported and home-bred stallions and mares, representing the most fashionable families of the breed at the Iowa State Fair. Write for catalog mentioning The Homestead to
JOHN S. TAIT, Ames, Iowa

WANTED

ONE car of good steer calves. One car of stock cows or heifers. Herefords or blacks preferred. State price and description. Chas. A. Hunter, Chatham, Ill.

ment at the Kansas City Stock Yards in July and August, was sent to Salem. Seven sick hogs were taken from Mr. Grinstead's herd, and eight healthy ones which never had been exposed to cholera were bought from another farmer by Mr. Grinstead. Four of the eight were inoculated with serum and four were left untouched. The sick and well hogs were put into the same pen.

Within twenty-four hours six of the seven sick hogs had died and within seventeen days the four hogs that had not been inoculated caught the cholera and died. One sick hog recovered and the four that had been inoculated were not touched by the disease. From these hogs serum was obtained with which other hogs had been treated, and in a short time the disease had been stamped out.

Any veterinary surgeon can make the serum.

TOO LATE TO CLASSIFY.

Grimson Wonder Again Fall Boars for Sale

SOME great show prospects among these. Also some great herd boars. These are big and smooth, and priced to move. Also some good sows bred to C. W. A. for May farrow.

H. S. ALLEN, RUSSELL, IOWA.

A Serious Case of Milk Fever DID NOT STOP

Honey Pilloha 181786

SHE gave in the year just past over 8,000 lbs. milk. Her 6 months bull calf by a son of Golden Fern's Lad, is a real bargain at \$50.

SUNNY PEAK FARM, Elm Grove, Wis.

W. J. HARTUNG MAXWELL, IOWA.

25 DUROC sows sired by S. E.'s Jr. Jim, Advancer 1V., Golden Model 11., and bred to W. J.'s Colonel, by Prince of Colonels, and son of Golden Model 11., for March and April farrow. Priced from \$25 to \$50. Swedish Regenerated Select Seed Oats, \$1 per bushel, or 10 bushels for \$9; sacks free. They yielded 60 bu. per acre last year. Write if you mean business.

Do You Want Well Bred Duroc Jersey Sows

I HAVE them and they are good, sired by such noted boars as Crimson Wonder Again, Guthrie Chief, I Am Advance, Golden Model 2d and others. Write me for prices on these sows
GEO. H. MILLER, CHARITON, IOWA.

I Have 75 Spring Gilts

THAT I am pricing to sell within the next thirty days. Sired by Col. Chief, Fancy Critic and others, and bred for March and April farrow. Prices reasonable. J. P. Peterson, Herman, Neb.

DUROC JERSEY BRED SOWS FOR SALE

I AM offering 20 head of well-bred sows for sale, bred to my noted boars. Two of these are daughters of Ohio Chief. Bred for March and April farrow. Prices reasonable. Address O. E. Osborn, Weston, Ia.

BERKSHIRE BRED SOWS

A FEW extra choice yearling sows, sired by Artful Majestic, and bred to Merger's Star 10th, for Mar. and Apr. farrow. Write, or come and make your own selection. C. S. Buckley, Holstein, Ida Co., Iowa.

FOR SALE AT A BARGAIN

IMPORTED Shire stallion eight years old; fine style; a good performer and a sure foal getter; weight about 1,900 lbs. Must sell. Write
W. H. Hazlet, Secretary, Leon, Iowa.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.
W. J. HATHER, ORD, NEBRASKA.

Ottumwa W. B. Bonfield, Ottumwa, Iowa, breeder of Double Standard Polled Durhams. Bulls and heifers for sale. Fair prices.



KEEP ON

DISPERSION SALE

AT SUNNY SLOPE FARM, EMPORIA, KANSAS, OF

THE GREAT SUNNY SLOPE HERD OF HEREFORD CATTLE



WILD TOM

Tuesday, Wednesday and Thursday, March 1, 2 and 3, 1910

250 Head

30 two-year-old heifers in calf, 30 yearling heifers, 100 cows from three to eight years old, 30 bulls, 60 calves, of both sexes, to be sold with their mothers

250 Head

NEVER before in Hereford history has such an opportunity been offered buyers of pure-bred cattle. The entire show herd is included and the four great herd bulls, Beau Mystic, Expectation, Beau Doncaster and Beau Mystic 11th. Beau Mystic, I believe, is the most valuable Hereford bull in America. He was shown two years at the leading fairs of the country and was never defeated but once, and then he walked to the show ring on three legs. I believe he can defeat any bull in the country in next year's show, and I doubt if any breeder can show as fine a lot of cattle as I will show you on sale day by this bull. It is his ability to produce good ones that makes him valuable rather than his show record.

On March 3d I will sell twenty-five mares and horses, thirty milk cows, forty pure-bred Berkshire hogs, twelve sheep, farm machinery and household goods.

SUNNY SLOPE FARM is the best advertised pure-bred breeding establishment in America, and is situated from a buyer's standpoint as good as any in America.

One hundred thousand dollars will not advertise your farm as well as this one has been advertised. It is for sale. Nine hundred and seventy acres for \$60,000. Land adjoining it is selling for \$65 per acre. The farm will be sold at private sale. Everything else at auction. Write for catalog and remember the dates, March 1st, 2d and 3d. Address, mentioning paper,

C. A. STANNARD, EMPORIA, KANSAS.

AUCTS.—Cols. F. M. Woods, R. E. Edmonson, Geo. P. Bellows, Thos. Scofield



LAMPLIGHTER 51834



JAVA 64045

IAMS' STALLIONS AND MARES.

Frank Iams, of St. Paul, Neb., is now selling imported stallions and mares from \$1,000 to \$1,500 each. Mr. Iams keeps his selling clothes on all the time. He has this to say concerning his present offer: The big horseman has all competitors "skinned to a frazzle," all buyers are headed for "Iams' town of barns." Uncle Hiram and Ikey may be the "lobster stallion buyers," but they buy their imported stallions and mares of "Iams, the king horseman," and are the "wise-guy buyers after all." Uncle Hiram, "leave your happy home," visit the "peaches-and-cream" stallion man, and save \$1,000. Every day is "bargain day," a "horse-show day"—and a day of "profit and pleasure" at Frank Iams' stallion and mare emporium—and largest in the United States, at St. Paul, Neb. You will positively see here more imported stallions and mares—"top notchers"—"medal winners," "ribbon grabbers" and everyday "business" horses than at any "horse plant" in the United States, and double all others in Nebraska. Iams backs up his "ads" and catalog with a "\$500 bonus" (no others do this). He gives five of the best banks in Nebraska for reference. Iams' 170 kings and queens of Percherons and Belgians are all "top notchers"—no international "tail ends," no "auction stuff," no "pick-ups" or "peddlers' horses," but the best bunch of big boned, big drafters of quality and finish in the United States, and all in the "pink of condition." Iams is a "big fly in the ointment" in the "horse business." He "sets the pace" for all competitors. Iams leads the procession. Ikey Boy, buy an imported stallion and two mares of Iams, the horseman that "does things." Get into Iams' band wagon. Don't be "side-tracked" by any "hammer knockers." Mr. Ikey Boy, "waltz me around once again" and land me at Iams' "four importing barns" and box office filled to the roof with big "black boys and girls" at bargain prices. Iams is the only horseman that really has "the goods" as advertised. 1910 promises to be the most prosperous year in history. Mr. "Stand Patter," "come on down town." All the world knows Iams, the big horseman. He has a loving feeling for horse buyers. He sold sixty imported stallions and mares to "Iowa boys" in 1909, and 150 "top notchers" to the boys with brains in other states. Iams sells \$4,000 imported stallions at \$1,000 and \$1,400 (some higher)—imported mares in foal, 1,700 to 2,400 pounds, at \$700 to \$1,000; many medal winners. Iams sells the "wide-as-a-wagon" kind that don't need to be "peddled" or put on the "auction block" to "catch suckers." Iams is a horseman in a class by himself. He is selling more horses yearly. Ikey Boy, don't be the lobster. "Be the wise guy after all." Try Iams, the "peaches-and-cream" stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a "warm spot" in his heart for all stallion buyers. He saved 1000 to stallion buyers in 1909 by selling stallions direct to the people, saving all the women's profits. Iams is an expert horse-

man. He knows the "top notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin' and a shovin'," high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick stallion salesman that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 or \$4,000. Son Ikey, form your own "stallion company." Visit Iams' town of barns filled to the roof with big, "black boys," the "best ever," "Iams' kind." His 170 stallions and mares, two to six years old, weight 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent ton horses, are a horse show better than the "International." Iams' 1910 horse catalog is an "eye opener," "a bunch of gold," the "book of books" to stallion and mare buyers. It is full of facts, truths, business propositions, and 115 illustrations of the best and largest imported stallions and mares in the United States, "true to life," in "every pose." This "warm book" is full of "Iams' kind," the "wide-

as-a-wagon drafters," the real "peaches-and-cream" stallions. It shows the tricks of "stallion peddlers" and "auction block" salesmen. It is the finest, most elaborate and original up-to-date book in the world. Iams' twenty-eight years of successful business, importing and selling stallions make him a safe man to do business with. He sells stallions on honor. A boy or lady can buy as cheap as a man and get a better horse of Iams, the "square-deal" horseman. If you visit him and don't find every statement in his advertisement or catalog as represented, you can get the \$500 that he bangs up. Iams guarantees to sell you a better stallion at \$1,000 and \$1,400 (few higher) than are being sold to farmers' stock companies at \$2,500 to \$4,000; with 60 per cent guarantee, freight and fare of one buyer paid by Iams. He can furnish buyers \$1,500 insurance. You say, "Why can Iams sell better stallions at half the price of others?" Iams buys and sells every stallion himself. He buys stallions by special trainload, 200 at a time. He speaks the languages, saving 20 per cent. He is not in the "stallion trust,"

saving you \$300. He pays no "slick" salesman \$100 to \$1,000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions. He sells stallions by "hot" advertising and having "the goods" to make every statement good. Iams sells stallions so good that they do not need a "slick" peddler or the "auction block" to sell them. Iams will save you \$1,000 in commissions and middlemen's profits. "Papa, dear," buy me a pair of imported mares of Iams. They will raise me colts at six months old that will sell for \$500, and be good for twenty years. Iams has the kind that lay these "golden eggs." Don't let one of these "auction men" hand you a lemon" with one of these so-called American full bloods with questionable breeding. Iams' "selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog. Iams' guarantee is backed by a half million dollars. See advertisement on page 61.

BUCKLEY'S BERKSHIRES.

Mr. C. S. Buckley, of Holstein, Iowa, offers on page 53 of this issue of The Homestead a few extra choice yearling Berkshire bred sows, sired by Artful Majestic and out of some of his best brood sows, such as Vardena Varden, a daughter of Dolly Varden, a daughter of that grand old sow, Pretty Face; (any of Mr. Buckley's customers who have ever bought a Pretty Face can vouch for the high quality of this family); Dorothy King, also a member of the Pretty Face family, and others of equal merit. The sows offered for sale are all of the best type and quality; all have good backs, hams, legs and feet—points that are strong features in this herd. Nearly all are bred for March and April farrow, to his present herd hoar, Merger's Star 10th, a well-bred boar and a good individual. If you are looking for something choice it will be well worth your while to write Mr. Buckley or visit the herd, as he is pricing these sows very attractively.

Mr. Henry Lefebure, of Fairfax, Iowa, breeder and importer of Belgian draft stallions and mares, also importer of Percheron stallions, writes under date of February 2d as follows: "My horses are all wintering nicely and are in the best of health and breeding condition. I have made the following sales during the past week: The Belgian stallion, Avenir, and three roan Belgian fillies to Hefner & Neff, of Muscoda, Wis.; a choice Belgian stallion coming three years old to Max Machler, of Gann Valley, S. D.; a pair of sorrel fillies with white manes and tails to E. S. Ball, of Shalhona, Ill.; a pair of chestnut fillies to Mr. Gullaxson, of Bode, Iowa, and a choice Percheron colt to Edwin Barnes, of Blakesburg, Iowa. I still have forty Belgian mares and fillies and a large selection of Belgian and Percheron stallions, weighing from 1,800 to 2,200 pounds, and with the size and quality desired. My four barns are full and all who contemplate purchasing a stallion or mare are invited to visit my stable. My catalog is mailed to all who ask for it." See advertisement on page 63.



Captain Robbie 7146 A. R. 25 was bred by the late N. K. Fairbank, noted as a manufacturer and merchant and well known as a breeder of Guernsey cattle. The get of this sire were distinguished by great breed character and finish. His sire was Stranford, whose daughter, Stranford's Morning Glory, produced 714 pounds of fat. On his dam's side Captain Robbie is a grandson of Lily's Bonny Boy, whose sire established one of the most valued of Guernsey families. See Ben Clark & Son's advertisement on page 56.

CLYDESDALE MARE SALE

LAKE SIDE FARM, Storm Lake, Iowa, WEDNESDAY, MARCH 2, 1910

40 REGISTERED CLYDESDALE BROOD MARES

BRED to the best stallions of the breed, and most of them already heavy in foal. These are big, clean, honest brood mares and every one a work horse. They have been bred and raised to work. They are bred right, carrying the very best blood lines of the breed. In foal to such sires as GARTLY PRIDE 14730, this year's champion of the International and New York Horse Shows, where he sold for \$6,500, and to McQUEEN 3513, the greatest sire of the breed in America. Also quite a number of mares sired by McQueen. These mares bred to good sons of Baron's Pride, too. These mares have all been wintered at Lakeside Farm and are thoroughly acclimated and can be depended upon to foal safely and do a good season's work. Write for catalog now.

AUCTIONEERS---Col. P. Maguire, W. J. Murphy.

LAKE SIDE FARM, Len H. Lamar, STORM LAKE, IOWA.

LUNDAHL'S DISPERSION HEREFORD CATTLE

Red Oak, Iowa, MONDAY, FEB'Y 21, 1910

AT 1 O'CLOCK SHARP

CONSISTING of forty-two head of registered cattle and forty of unregistered. Including the great breeding bull, RUPERT DONALD 2d, a three-year-old. As the farm is sold these cattle must be sold. The sale will be held on the farm 5 1-2 miles from Red Oak. Parties coming from a distance call up Thomas livery barn for livery out to the farm. Farm telephone No. 25 on 7. Write for catalogs and mention The Homestead. Address

SWAN LUNDAHL, Red Oak, Iowa.

CAREY CAMERON'S GREAT OFFERING DUROC JERSEY BROOD SOWS

Herman, Nebraska, February 21, 1910

41 HEAD 41
300 and 350-lb. Spring Gilts

THESE are sired by Gold Dust Wonder, Gold Dust Jim 3d, Critic's Model and Russell's Choice, and they are out of my very best brood sows. A better bunch of young sows will not be sold in the state this winter. Five young Short-horn bulls—I will also sell five choice, young Short-horn bulls in my sale, sired by Butterfly's Chief 232417, that are strictly all right. Write for my catalog.

CAREY CAMERON, HERMAN, NEBRASKA.

Col. Geo. P. Bellows, Auct. M. T. White, Field Man for Homestead.

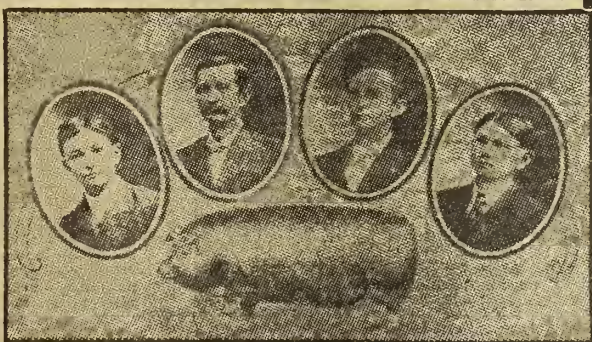
PFANDER'S GIANT POLAND CHINAS

ANNUAL BRED SOW SALE

CLARINDA, IA., SATURDAY, FEBRUARY 26, 1910

42 SOWS

Spring gilts, fall gilts and a few matured sows. Half are by the great and only Long King. Others by Big Prospect, Crescent Tom, Longfellow P., Long Giant, Blue Valley Giant, Big Hadley 2d, Pawnee Prince, etc. They are bred to Long King, Big Hadley 3d, Orange King, Missouri Lad. Send mail bids to C. C. Carlin, of The Homestead. H. S. Duncan, auctioneer. For catalogs address



J. W. PFANDER & SONS, CLARINDA, IOWA.

SHORT-HORNS

AND

POLAND CHINAS

AT AUCTION

FRIDAY, FEB. 25, 1910

AT AINSWORTH, IOWA.

THE SHORT-HORN CONSIGNMENT NUMBERS

25 Head--17 Females--8 Bulls

THE females of breeding age have calves at foot or are in calf to the Scotch bull, Scottish Lad 285706, an International winner, by Imp. Pitlirie Merry Lad. The bulls are an unusually strong lot, with one exception all Scotch.

45 Poland China Brood Sows

By Panorama 132727; Royal Strapper; Bred to Standard Major 154655 and Chief I. X. L. Jr. 154651. Forty gilts; without question the best lot to be sold this season. Bids sent to Dante M. Pierce properly handled. Write for catalogs.

J. M. Stewart, Ainsworth, Iowa.

Col. Bellows, Cooper and Macon, Auctioneers.

Stewart's Chester Whites

AT AUCTION

40 HEAD February 24, 1910

J. H. STEWART, OF DICKENS, IOWA, will sell forty head of Chester White gilts at his farm, one and one-half miles northeast of Gillett's Grove and six miles south of Dickens, Iowa, on February 24th. These grand good Chester White gilts are the daughters of White Oak 2d and others. White Oak 2d is the great son of old White Oak, the St. Louis World's Fair champion, and they are bred to farrow in March and April to the service of White Rock, he by Special and he by Joker. His dam is Peerless 2d, she by Combination, and Onward, he by Billy Sunday and he by Dude. His dam was Highland Lily, she by Young Press. If you want bred sows of the choicest of breeding and rarest of individuality, at this sale you will find them. Write for my catalog, which is now ready, for fuller description. Col. W. R. Ritchie will be the auctioneer, with able assistants. Sale in a tent. There will be free transportation from Dickens, Iowa, also from Gillett's Grove, and return.

J. H. STEWART, DICKENS, IOWA.

LIVE STOCK AUCTIONEERS.

LAST WINTER TERM JONES NATIONAL SCHOOL OF AUCTIONEERING

OPENS FEBRUARY 14, 1910.
We had at our winter terms students from New York, Pennsylvania, Connecticut, Ohio, Indiana, Michigan, Wisconsin, Illinois, Iowa, Minnesota, North Dakota, South Dakota, Nebraska, Kansas, Missouri, Oklahoma, Colorado and California. Thorough instruction and competent instructors is the secret of the success of our graduates. Write today for catalog. 2855-2858 Washington Blvd., CHICAGO.



FRED REPERT,
DECATUR, IND.
Live Stock Auctioneer.

Cattle Sales a
Specialty.....

Write for Dates and Terms.

ELWOOD J. PITTMAN STERLING, ILLINOIS.

Fifteen years' experience
selling live stock.

Write for Terms and Dates.



N. G. Kraschel MACON, ILL.

Live Stock Auctioneer

I have a wide acquaintance
among pure-bred breeders and
am thoroughly posted in my
vocation.

G. C. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere.
Reasonable terms. Have
pleased others; can please you.

Write for Dates.



PLINY NICHOLS WEST LIBERTY, IOWA.

Live Stock Auctioneer

SALES made anywhere. Reason-
able terms. I also breed Poland
Chinas and Short-horns.

J. L. McILRATH GRINNELL, IOWA.

Fine Stock Auctioneer

Duroc Jersey and Poland China hogs and
Short-horn cattle my specialty. My custom-
ers my references. Ask them. Write me.

CAREY M. JONES, Live Stock and Real Estate Auctioneer,

2856 Washington Blvd., Chicago, Illinois.
Phone West 1228.

If you want to buy or sell a Farm, City Prop-
erty or Subdivision, no matter where located,
write for terms and dates.

GEO. B. BUCK SUNNY HILL, ILL.

LIVE STOCK AUCTIONEER

I AM thoroughly posted on all breeds of live stock.
Breeder of Red Polled cattle and Duroc Jersey
hogs. Write for terms and dates.

W. K. HENSS, WAYLAND, IA. LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock
for noted breeders. Terms reasonable. Write
for dates. Catalogs compiled.

LIVE STOCK AUCTIONEER SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed. W. F. STRATTON, CAMBRIDGE, IOWA. Breeder Short-horn cattle and Duroc Jersey swine.

H. S. and W. B. DUNCAN CLEARFIELD, IOWA.

LIVE STOCK AUCTIONEERS
Thoroughly posted in pedigrees and sales
cried anywhere. Write us for dates.

C. C. KEIL, Auctioneer, GRINNELL, IOWA.

PEDIGREED STOCK A SPECIALTY.
20 YEARS' experience as breeder and auctioneer.
Talk English and German. Write me at once.

THEO. MARTIN Stock Auctioneer.

Bellevue, Iowa.

Big-Type POLAND CHINAS At Auction 60 HEAD AT MARATHON, IOWA, FEB. 24, 1910

We will offer sixty head of bred sows and gilts of the Peter Mouw type, consisting of ten aged sows, seven fall gilts and forty-three spring gilts. The aged sows are the get of Wonder 4th, Dry Creek Chief, Miller's Tecumseh, Miller's Chief Price, Chief Leader, Big Bone, Long Wonder. Fall gilts by Orange Chief 2d and an Expansion-bred hog. The spring gilts by Long Wonder, R's Longfellow, Chief Price 2d, Choice, he by Chief Leader; Miller's Happy Tecumseh, Long Prospect and Smooth Longfellow, Big Price and Victor Price, and they are bred to R's Longfellow, Orange Chief 3d, Jumbo Price. We will sell more sows in this sale bred by Peter Mouw and John Miller than will be sold in any other sale to be held this year. Attend this sale if you want the big good ones. Free hotel accommodations and free transportation from Marathon, Iowa, to the farm, which is only one mile east of town. W. B. Duncan, James Jensen, Ira Cottingham, auctioneers. For catalog address

RUEBEL BROS., MARATHON, IOWA.

Attention is called to Will Carey's sale, Fonda, Iowa, February 23d; M. P. Hancher's sale, at Rolfe, Iowa, February 25th.

HANCHER'S BIG FOUR POLANDS AT AUCTION

50 head big type, big bone big litters, big quality, at my farm adjoining
ROLFE, IA., FEB. 25

There will be six tried sows, three fall gilts, forty-one spring gilts in the offering. The aged sows are the daughters of Long Meter, Chief Tecumseh 4th, Crow's Model. Fall gilts are sired by Big Bone and Our Dude. Spring gilts are the daughters of Our Dude, Columbia Chief 3d, Smooth Wonder 2d, Big Bone, Hadley's Expansion, and are bred safe to farrow in March and April to the service of Chief Price 2d, Columbia Chief 3d and Big Wonder. This will be the best offering of the big Poland China type hogs that I have ever offered. Spring gilts will weigh from 300 to 350 pounds or better. Attend my sale and you will not be disappointed in the offering. Free hotel accommodations at the Clifford Hotel. Free transportation to the farm. W. B. Duncan and Ira Cottingham, auctioneers. For catalog write to

M. P. HANCHER, ROLFE, IOWA.

Attention is called to Will Carey's sale, February 23d, at Fonda, and Ruebel Bros.' at Marathon, Iowa, February 24th.

LIVE STOCK AUCTIONEERS.

The National Auctioneering School of America

ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

ROOM 218
The National Auctioneering School of America, FUNK BLDG. Lincoln, Neb.

MISSOURI AUCTION SCHOOL

One hundred and twenty-one students attended the January term, 1910. NEXT FOUR WEEKS' TERM WILL OPEN APRIL 4TH, AT OKLAHOMA CITY, OKLA. The tuition the same as heretofore, \$50.00 down and \$50.00 after you have made \$200 out of the business, no note required. Lifetime scholarship given.

AUCTIONEER JOKER, published monthly at 50c per year.
Wm. Carpenter, President. Address: Trenton, Mo., until March 4th, after that date Oklahoma City, Okla.

H. L. Igleheart

Glendale, Kentucky,

Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

O. L. MOSSMAN, MASON CITY, IA. LIVE STOCK AUCTIONEER

Thoroughly posted as to pedigrees and values.
Write for dates. Terms reasonable.

Geo. W. Dykes Live Stock Auctioneer, DANA, ILL.

SILAS IGO, Indianola, Iowa Live Stock Auctioneer. Write me for date.

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HEREFORD CATTLE.

B. W. GREGORY, HARLAN, IA. Breeder of HEREFORD Cattle

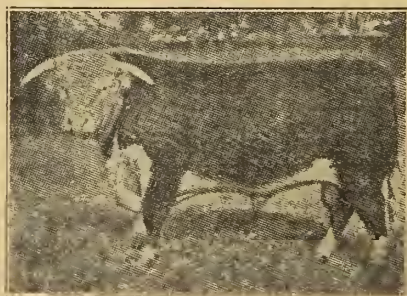
I have a few choice young bulls for sale at private
treaty. Write, or come and see me.

Polled HEREFORDS

THE largest herd in the world. My bulls carry as
many Polled crosses as are found and my females
are mostly Polled. Come and see the herd.

J. W. WYANT, BLYTHEDALE, MISSOURI

HEREFORD CATTLE.



EMANCIPATOR 5TH 821235.

We Are Offering Herefords

MALE OR FEMALE

of the choicest breeding and individuality.
We meet anyone in price who will furnish the
same quality of goods. Write us your wants.

CARROTHERS BROS., RYAN, IOWA.

High-Class Hereford Bulls FOR SALE

A FEW good two-year-old Hereford bulls, 20 year-
ling bulls or under. The two-year-old bulls all
sired by Perfection Yet, a bull exported to South
America. Herd headed by Improver's Hesled 107727
and British Captain 283067, a son of Imp. Britisher,
out of an Anxiety Monarch dam. 100 head in herd.
D. S. O'Leary, Prop., Iowa City, Iowa.

Polled Herefords

WE offer for sale the largest bunch of Double
Standard Polled Hereford bulls in the world.
Considering age, size, color, type, breeding and the
amount of Polled blood carried, we believe we have
more good Polled Hereford bulls than any other
breeder in the world. Priced surprisingly low.

Just try us once.
Warren Gammon & Son, Des Moines, Iowa.
Originators of Polled Herefords.

FOR SALE Am offering for sale the Hereford
bull, Duke Jr. 326537, one-year-
old. This is an A. No. 1 bull of the low-down type,
priced right. Call on or address Geo. T. Knutson, R.
5, Alden, Iowa. (Farm 2½ miles from Buckeye.)

HEREFORD CATTLE.

HEREFORD BULLS

I AM offering six young Hereford bulls for sale;
I good, blocky fellows, with good colors and heavy
bone. Will price these bulls right. Address:

A. F. HAGER, AVOCA, IA.

15 HEREFORD BULLS

FOR SALE, from 12 to 30 months old, sired by
Advance 129531 and McKinley 95219. Address
Z. T. KINSELL - MT. AYR, IOWA.

GUERNSEY CATTLE.

SUNNY VALLEY GUERNSEYS

HERD headed by Lord Waukesha 10148 and Eda-
lin's Yeksa 10232, two of Wisconsin's noted bulls
Herd numbers 50 head. Some very choice young
bulls for sale. Herd tuberculin tested.

WM. M. JONES, WAUKESHA, WISCONSIN

BROOK HILL FARM Pure-Bred Guernseys

FOR SALE Bulls from three to fifteen months
of age. Dams have made from four
to seven hundred pounds of butter in one year,
official test. Send for sale list.

David W. Williams, Supt.,
GENESEE DEPOT, WISCONSIN.

BONNY BOY GUERNSEYS

I have a few young bulls for sale at this
time. They are from some of my best
milking dams. Address.

RALPH TRATT, WHITEWATER, WIS.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daugh-
ters of King Coral A. R. 16 and Capt. Robbie A.
R. 25. They are sired by Glenwood's Stranford
9386, a son of Stranford's Princess A. R. 199, with
725 lbs. fat. He is a half brother to Dairymaid of
Pinehurst, the leading cow in Iowa Dairy Cow Con-
test. Send for sale list of bulls.

Ben Clark & Son, R. 1, Whitewater, Wis.

GRATIFY OUR GUERNSEY CHAMPION

Has been sold to head a good herd, but we
still have some real good young sires for sale.
Let us tell you about them.

FOX BROS., WAUKESHA, WISCONSIN

GUERNSEYS

FOR SALE—I am overstocked
and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the island.
Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

JERSEY CATTLE.

BULL BARGAINS

Calves All sired by
Yearlings Pedro's Golden Fern
Two-year-olds Write for detailed descriptions

Better still come and see for yourself.

SUNNY PEAK FARM, Elm Grove, Wis.

King Sappho King Jerseys

WE offer a few mature cows for breeding pur-
poses, a few young cows and heifers and a
magnificent lot of young bulls sired by King Sappho
King 65262 and Loretta D's Champion Son 77002.

J. Q. Emery & Son, Edgerton, Wisconsin.

VALLEY FARM

IS offering a few yearling bulls, sired by Blue Bell's
Eminent 74774. Also a few bull calves. These
are a fine bunch and will be sold cheap. For par-
ticulars, write Fred Stubley, Black Earth, Wis.

RED POLLED CATTLE.

SEAMAN'S Red Polled Cattle. 50 h'd, the equal
of any ever sold in Ia. 7 yr. old, and 2-yr. old bulls,
40 to 50 cows and heifers of the greatest milking fam-
ilies known to the breed. Part of the old W. H. Sea-
man herd, Davenport, Ia. Visitors can be shown 125
head of as good Red Polls as can be found in U. S. Gus
C. Seaman, R. 5, Davenport, Ia. Telephone to farm.

MAPLE GROVE Red Polls. Good registered
bulls, 5 to 10 months old; also females at reason-
able prices. W. B. Danforth, Little Cedar, Iowa.

AYRSHIRE CATTLE.

Ayrshire Cattle

YOUNG stock for sale. Bulls heading our herd
are from advanced registry stock. Prices reason-
able. Fred Tschudy & Sons, Monroe, Wis.

ABERDEEN ANGUS CATTLE-SHROPSHIRE SHEEP-DUROC JERSEY HOGS

IN A DISPERSION SALE AT

Langdon, Iowa, Wednesday, February 23, 1910

Having leased my farm for a term of years it becomes necessary for me to dispose of my herds and flocks. I regret very much to do this as they have in the past been not only a pleasure and profit to me, but I believe also of advantage to those who have been my patrons. My cattle are representatives of those strains which have been most popular with the breed and which have been productive of the highest results. Everything must go, not only the live stock, but the entire farm equipment, as elsewhere announced. I will welcome to my farm on the date mentioned all those who are interested in pure-bred stock. I believe they will find the opportunity one of intense interest to them.

L. L. ATWOOD, LANGDON, IOWA

This is a final dispersion sale. It will be held at farm at Langdon, Iowa, as above announced. It will include forty-five registered Aberdeen Angus cattle. These belong to such noted families as Blackbird, Trojan Erica, Pride, Queen Mother and the like. The herd is too well known among breeders to require further comment. The foundation was laid from the best strains and highest individuality that money could buy or skill produce. From this herd was sent out the great Sunnyside Inez that won three championships in the United States in 1908 and also in Canada in 1909. Other good ones remain in the herd and will be sold at this sale. Twenty-five head of Shropshire sheep must go as also twenty Duroc Jersey bred sows. These animals are all in prime condition, just right for the purchaser and they are in every way desirable property. On the following day, February 24th, I will hold a general farm sale at which all other equipment of the farm will be disposed of. Catalogs of the pure-bred stock are now ready and may be had on application. Auctioneers, Silas Igo, Claire Binnie and C. Primeo.

HOLSTEIN-FRIESIAN CATTLE.

HIGH GRADE HOLSTEINS

COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want.

RIVERSIDE STOCK YARDS, ALGONQUIN, ILL.

Registered Holsteins (Established 1876.)

THE two greatest sires of the breed, Paul Beets DeKol and Hengerveld DeKol have more sons and daughters in this herd than any herd in the world. Plenty of stock for sale.

R. E. HAEGER, ALGONQUIN, ILLINOIS.

Rock Brook HOLSTEINS

All females cataloged for my Fourth Annual Sale at South Omaha, Feb. 8-9, 1910. A few bulls and bull calves at private treaty. Send for my catalog of 125 head to be sold in sale.

HENRY C. GLISSMAN, Station B, OMAHA, NEBRASKA.

NOTICE

50 Holstein Bulls for Sale

20 From A. R. O. dams and rest from dams that are all high-class, registered cows. These bulls are in age from 5 to 14 months; well-grown and first-class individuals, from dams that are kept for profit. These bulls are sired by two sons of Homestead Jr. DeKol; the sire of Grace Fayne 2d's Homestead, world's champion cow. Balance by Johanna Rne, Sarcastic Lad, 12 A. R. O. daughters and close up in breeding of Colantha 4th Johanna. Prices low according to stock. Mention this paper when inquiring. For information, address

L. G. LEGLER, JUDA, WISCONSIN.

HOLSTEIN BULLS

TWENTY sons of Reka Ormsby Duke for sale. This splendid sire is a grand son of Homestead Jr. DeKol and Duchess Ormsby and therefore combines blood of the two greatest families in the breed.

Albert Babler, Jr., Monticello, Wis.

HOLSTEINS

LAKE MILLS, WISCONSIN

100 HEAD to select from, bred from the leading strains. Parties wanting bulls or females to improve their herds, write us, we can supply you. High-grades in car lots picked up on short notice.

WM. EVERSON & SONS

20 HOLSTEIN BULLS

From two weeks to eight months old. Fashionable breeding, large milking dams. Sir Netherland Cornucopia, whose two nearest dams average thirty pounds butter, and six nearest dams twenty-five pounds in seven days at head of herd. Prices moderate. Send for sale list.

WOODLAWN FARM, STERLING, ILL.

MONONA FARM HERD

OF pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

F. W. ALLIS, MADISON, WISCONSIN.

HOLSTEIN HEIFERS-COWS-BULLS

Anything you want and at popular prices.

W. R. GATES, Fort Atkinson, Wisconsin.

MAPLE LANE Holsteins

MALES and females for sale. Herd numbers eighty head. Tuberculin tested. We guarantee our stock. T. J. BARMORE, Monroe, Wis.

Holstein-Friesian Bulls

WE have bulls of serviceable age and bull calves for sale; fine individuals, well bred and well grown. Their dams are all heavy producers.

JESSE R. ELLIOTT, WOODWARD, IOWA

POLLED DURHAM CATTLE.

Clovermead Polled Durhams for sale. A few bull calves, cows and heifers; quality and prices right. Wm. Barrans, Lenox, Iowa.

GALLOWAY CATTLE.

ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, 1da 3d of Otee and other cows equally well known. Write your wants; we can suit you. A. G. Abney, North Loup, Valley Co., Neb.

GALLOWAYS

HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address

John C. Gahring, R. 1, Box 29, Marengo, Ia.

SHORT-HORN CATTLE.

Good Scotch Bulls for Sale

I AM offering a splendid lot of young Scotch bulls for sale, sired by American Goods, a son of Imp. Choice Goods and Baron Kent 3d. Strictly all right and prices reasonable.

W. H. McLAUGHLIN, SHELBY, IOWA

BATES BULLS

SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Plain View Stock Farm

6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address

GEO. A. HANS, NEWTON, IOWA.

BULLS FOR SALE

I AM offering one good Short-horn bull and one good Polled Durham bull for sale. I am pricing these bulls where anybody can afford to buy. Address

E. B. RYAN, NEOLA, IOWA.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch.

Wm. M. Smith & Sons, West Branch, Iowa.

Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all red; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live and let-live prices.

R. M. Young, Cook, Johnson Co., Nebraska.

SCOTCH BULLS

I have for sale several richly bred and splendid individual bulls, reds and roans. The herd is headed by the Scotch bulls, Ringmaster and Choice Prince. Nine straight Scotch bulls, two Scotch topped, now ready for service. Farm adjoins town. Address

G. H. GEORGE, MONTICELLO, IOWA

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns. HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address

GEO. H. WHITE, EMERSON, IOWA.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

When writing to advertisers please mention this paper.

SHORT-HORN CATTLE.

We Want Registered Bulls

SHORT-HORN, HEREFORD, GALLOWAY and ANGUS cattle sold on commission. We need bulls at once to fill our orders. Write us immediately and consign your bulls to us at once. Address A. J. BRAGONIER & SON, SOUTH OMAHA, NEBRASKA.

Choice Short-horns at Bargain Prices

CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fame 197980, and bred to my Cruickshank Flora bull, Narcissus King 239586. One extra good bull 16 months old by Royal Fame; 14 younger bulls, mostly by Narcissus King. A choice lot to select from at bargain prices; singly or car load. Address

R. J. COX, GRINNELL, IOWA.

SHORT-HORNS and PERCHERONS

We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices.

SMITH & BARNHART, South English, Iowa.

35 SCOTCH SHORT-HORN BULLS

FOR SALE—From one to two years old, of the blocky, beefy type; herd headers also. 25 heifers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address

L. BARR & SON, DAVENPORT, IOWA.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

SUMMIT HERD OF SHORT-HORNS

20 Short-horn bulls for sale, of serviceable age; all good colors and choice breeding, and well grown. Prices right. Lee & Prentiss, Vermilion, S. D.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Danahoe, of Holbrook, Iowa, and P. Leahy, of Parnell, Iowa. 200 head of choice Dobbies within a radius of two miles of Holbrook. The international Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Krens, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfold Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thicket, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa.

W. P. Brown, Herdsman.

Angus Bulls For Sale

WE are offering a splendid young Blackbird bull for sale; also one Jilt, one Pride and one Sybil. These are choice and we are pricing them right. Address Isenbarger Bros., Battle Creek, Ia.

ANGUS BULLS, COWS AND HEIFERS

8 BULLS for sale, some of them 2 years old. They are sired by top bulls and out of one of the best cow herds in the state. I have 1,800-lb. cows as good as can be found. All the leading families represented. Call or write A. G. Messer, Grundy Center, Ia.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, 1 sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equator also a few choice cows and heifers. Prices reasonable. AVILL L. COLEMAN, CORNING, IOWA.

ABERDEEN Angus bulls for sale. We have as fine a lot of young bulls for sale, from 1 to 2 years old, as can be found anywhere. All of the fashionable families, and can suit the most particular buyer or anyone wanting a good bull at a reasonable price. Located 17 miles east of Des Moines on C. R. 1. & P. and I. U. Rys. R. Wilkinson & Sons, Mitchellville, Ia.

Three Pure Scotch Bulls FOR SALE

TWELVE to 16 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight.

T. A. DAVENPORT, BELMOND, IOWA.

S. H. THOMPSON'S SONS

IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

WHITE BROS.

CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionable-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

INVERNESS ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address,

ED. T. DAVIS, IOWA CITY, IOWA

ALFALFA HERD ABERDEEN ANGUS

Ericas, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

POLAND CHINA SWINE.

ELLERBROEK'S POLAND CHINAS

50 Bred spring and fall gilts of the large-boned, lengthy type. These gilts are bred to Giant 2d 151933, A Wonder 14321, Big Bone 2d 151743. Their sires are A Wonder Next 149557, A Wonder 143421, Long Price 2d 146679, and others. Their dams are by Chief Price, Longfellow 3d, A Wonder 107353, etc. Come and see my stock or let me know your wants. Farm adjoining 3 railroads. 2 blocks from depot.

PETER ELLERBROEK, SHELTON, IOWA

Poland China Bred Sows

I have a few choice bred sows and gilts for sale at private treaty. Address

D. C. LONERGAN, Florence, Nebraska.

POLAND CHINA SWINE.

WELLMAN HERD OF POLAND CHINA HOGS

AND SHORT-HORN CATTLE.

25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd headers a specialty. 10 head of choice young bulls, 8 to 15 months old; all deep reds; sired by Masterdole 265763, a pure Scotch Victoria bull. Also a choice lot of young hifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address C. F. SHAFER, R. R. 4, WELLMAN, IOWA.

50 LARGE-TYPE, BIG-BONED POLAND CHINA SOWS

THESE sows are sired by Hadley, P. W. Giant and Jumbo. They are bred to Hadley and Victor (he by Big Victor, second prize aged boar at Nebraska State Fair, 1909). Choice tried sows, 350 to 400 pounds, \$50 to \$75. Fall yearlings, 300 to 400 pounds, bred to farrow March and April, \$45 to \$75. Spring gilts, bred to Victor for April and May farrow, 200 to 250 pounds, \$32 to \$50. They are heavy-boned, smooth, well-grown sows, sired by \$100 and \$150 boars, bred to the same kind, and as good as are grown. Sold 85 boars and sows this fall at an average of \$10. Shipped to eight states. Sold 1,000 for breeders in seven years. Careful selections made for mail orders. Pedigrees furnished at time of sale.

F. W. McINTYRE - R. F. D. 5 - RED OAK, IOWA.

PODENDORF'S BIG-TYPE

Poland China Bred Sows

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. FIELD BROS., HINTON, IOWA.

50 Big-Type, Big-Boned Bred Sows

WE are offering 50 head of extra fine, big-type, big-boned, quality kind. These are sired by our invincible trio of big boars, viz.—W.'s Major, 45237, Young Look 47722, Pawnee Price 47721, and bred to above named boars and a grandson of Grand Look and Expansion. Twenty-one sows farrowed 210 pigs in 1909. For size, quality and prolificacy, these cannot be beaten. Guaranteed as described. Priced right. Call or write. WILLIAMS BROS., Route 3, VILLISCA, IOWA.

OAKSIDE HERD of "Monster Pattern" POLAND CHINAS

HERD headed by Monster Pattern (weight 360 pounds at seven and one-half months old, 800 pounds yearling, eleven-rich bone), Oakside Chief (750 pounds yearling, 900 pounds at maturity). Herd sows large and prolific. Open and bred sows for sale at very close prices. Ask for catalog and get posted. There is a "tip" in it to every prospective buyer. Direct shipping facilities. Address A. S. JACKETT & SON, Oakside Farm, Route 2, Fremont, Nebraska.

PINE VALLEY STOCK FARM

HEREFORD cattle and Poland China hogs. We have sold out of hogs for this year, but have a few extra good bulls sired by March On 16th, Weston Anxiety; other great bulls. Come, see us; write us your wants. Prices right. Schain & Keep, Atlantic, Ia.

Poland China Bred Sows for Sale

I AM offering a choice lot of Poland China sows and gilts for sale at reasonable prices. Pedigrees furnished with sows. Address HERMAN BALTZ, Fremont, Nebraska.

Poland China Bred Sows

WE have for sale some choice, tried, aged sows, bred for March and April farrow; also 25 growthy last March gilts, sired by several different herd boars, bred for March farrow. Write for description and prices. Bridgford & Nesbitt, R. 3, Aledo, Ill.

POLAND CHINAS

FORTY BRED SOWS—BIG TYPE
BIG-TYPE Poland with big-type blood lines sired by Napoleon Chief 54169 and bred to Corn Belt Expansion 153155 for March and April farrow. Write for prices and des. C. K. Hanson, Neshun, Ia.

Schmieder's Big Poland Sows

A FEW choice bred sows and gilts, bred to Schmieder's Big Expansion 154731 and King Corrector; sired by Large Bude 116965 and King Corrector. JOHN SCHMIEDER, REMSEN, IOWA.

BERKSHIRE SWINE.

PRINE FARM BERKSHIRES

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address

George S. Prine, Oskaloosa, Iowa.

BERKSHIRES

Why not breed the hogs that pay the largest profits—Berkshire? From 300 to 700 always on hand. One of the biggest and best herds in the world. 50 pedigreed Bred Sows, now ready for sale.

MORGAN FARM-BELOIT WIS.

HOLT'S PRIZE-WINNING BERKSHIRES

THE records of leading state fairs show the superiority of my stock. Am pricing the tops of my boar crop by Matchless Premier and Governor, by a son of Imp. Lord Mating. Write for prices. Bred sow sale in February. W. R. Holt, Falls City, Neb.

Choice Berkshires For Sale

I chose's Combination J., second-prize boar Iowa State Fair, and gilts sired by him, open or bred; also two tried blood sows at reasonable prices. ORLANDO JACOBS, MEDIAPOLIS, IOWA.

CHESTER WHITE SWINE.

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

I HAVE A FEW GOOD CHESTER WHITE SOWS safe in pig for sale. Prices very reasonable. Address V. A. Lathrop, Marion, Iowa.

CHESTER WHITE SWINE.

Iowa Herd of Improved Chester White Swine

40 Aged sows for sale, reasonable, sired by such noted boars as Monarch Jr., Jerry S., Captain, Col. Sutton, Chief Commander and Allright. These sows will be bred to White Rock and Christopher 1st; latter won first and champion, Iowa State Fair, 1908; first and champion, Nebraska and Illinois State Fairs, 1909. Also two aged boars and a number of spring males and gilts. If in need of anything in this line, write me today or visit my herd. 1 ship on approval; if not satisfied, no sale. Mention Homestead. Thos. F. Keut (Successor to Geo. H. Lawshe), R. 2, Walnut, Iowa.

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 2d 5465, champion Iowa State Fair, 1909, and Minnesota State Fair, 1908; and Modeler 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented. W. F. HEMMERLING, DIKE, IOWA.

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address S. J. Philson, Harlan, Iowa.

CROSIER'S O. I. C. BARGAINS

(CHOICE bred sows and gilts bred to White Wonder for March, April and May farrow. Also four males. Priced at the bottom. Write now to C. W. CROSIER, JUNIATA, NEBRASKA.

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE

My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me. A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.

WAYSIDE HAMPSHIRE

WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead. MIKE SHARP, COAL VALLEY, ILL.

STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper. E. C. STONE, ARMSTRONG, ILL.

We Have for Sale

Spring boars ready for service, sows either bred or open, young pigs in pairs or trios no kin, a fine bunch of gilts either bred for spring or open; prices reasonable. Write us before you buy. L. C. MILLER & SON, R. 2, Canton, Illinois.

HAMPSHIRE SWINE

Some choice Aug. and Sept. fall pigs for sale. Write GEO. LIPPERT, Magnolia, Illinois

25 Head of Spring Boars
5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable. H. D. DeKALB, DeKALB, IOWA.

DUROC JERSEY SWINE.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

Duroc Jersey

Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

ARTHUR L. PARKS, LELAND, ILL.

Crimson Wonder I Am

SIX winter boars by this great sire now ready to go out. All of them crackers. Three fall boars by American Crimson Wonder. Nothing but show yard quality to offer. U. G. Davidson, Scanlon, Iowa.

For Sale—Duroc Jersey Sows and Gilts

Bred for April farrow. L. L. WOODS, GRINNELL, IOWA.

KEAN'S DUROC Bred gilts, popular breeding at moderate prices. Address FRANK KEAN, MT. PLEASANT, IOWA.

DUROC bred gilts, sired by Belle's Chief, not large, as I have been short of feed. Priced right. F. A. Ham, Saronville, Nebraska.

BRED sows for sale; safe in pig by Crimson Rambler, Model Chief 9th and Crimson King. Prices reasonable; sows guaranteed. Jno. Justice, Ankeny, Ia.

DUROC JERSEY SWINE.

W. J. HARTUNG

MAXWELL, IOWA.

Offers 25 choice Duroc sows for sale, sired by S. E.'s Jr. Jim, Advancer IV., Golden Model II., and bred to W. J.'s Colonel by Prince of Colonels and son of Golden Model II. for March and April farrow. Priced from \$25 to \$50. Write if you mean business.

Duroc Jersey Bred Sows

Fifteen spring gilts and three yearling sows bred for March, April and May farrow to High Wonder by Red Wonder and Cross' Col. by Col. S. Write for price and description, mentioning The Homestead.

L. W. Cross & Son, Mason City, Ill.

Helen's Chief High Notcher

Glad Col. and King's Col. head my herd of Durocs. I will sell King's Col. by King of Cols. Write for price.

M. A. KRASCHEL, MACON, ILLINOIS.

Bred Sows for Sale

EXTRA good Duroc Jersey gilts of good strains of breeding, raised for size, and bred for early litters to a son of W. L. A.'s Choice Goods. Will also sell my herd boar, Porter's King of Cols. Write for prices or come and see them.

J. C. PORTER, OGDEN, IOWA.

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banker 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows. VON SEGGERN BROS., WISNER, NEB.

25 DUROC JERSEY BRED SOWS FOR SALE

SIRE by King Solomon II., Advancer's Choice; others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once. Address A. Lentz & Son, Pierson, Iowa.

Duroc Jersey Gilts

A FEW choice gilts of good breeding, out of matured sows, and bred to Royal Advance 81963, Royal King and Model Duke (son of Golden Model 2d). C. E. Longnecker, Maxwell, Iowa.

J. D. Wright, West Liberty, Ia.

OFFERS spring pigs of either sex at bargain prices. Fashionable families. Individual excellence to suit discriminating buyers. Write for prices and descriptions or visit herd.

GOLDEN MODEL, heads herd, assisted by Advancer 1st. Will sell 8 head Golden Model sows in the Olson Bros. sale at Woodward, Ia., Jan. 31st, bred to Advancer 1st. Five are litter sisters to my show herd of 1909, which won 11 ribbons at Iowa, Iowa Interstate, Neb., Minn., Wis. State Fairs; 4 1st, 3 2d, 2 4th and 2 5th prizes. O. A. Olson, Madrid, Iowa.

DUROC JERSEY SWINE.

25 Duroc Jersey Bred Sows For Sale

I AM offering a choice lot of bred sows and gilts at private sale, bred to Iowa Model 24215 and Fancy Orion 86301. These sows are sired by the leading boars of the breed. Prices reasonable. Write me at once. Address MARK W. EDDY, FONTANELLE, IOWA.

BRIGHTON FARM DUROCS

A LIMITED number of aged sows, fall and spring gilts for sale. Descendants of Tolstoy, Pericles, Achiever. Bred for March and April farrow to Walter Model by Golden Model 2d and Gen. Moon, a grandson of Crimson Wonder I Am. For prices and further description, write to HUFFMAN & CHAPMAN, WASHTA, IOWA.

Chapin & Nordstrum's Durocs

LITTERS by King of Cols. 11, G. C.'s Col., G. C.'s Kansas Col. and Kelley's Pilot Wonder. Dams by Model Chief Again, C. E.'s Col. 2d, W. L. A.'s Choice Goods, Morton's Decree, etc. Three yearling and 3 fall boars for sale; good ones. Also some bred gilts for fall litters. Chapin & Nordstrum, Green, Kansas.

40 HEAD DUROC JERSEY BROOD SOWS FOR SALE

Sired by Crimson Critic, I Am Advance, Belle's Chief I Am and other noted boars. Bred to S Harding's King of Cols. and my other noted herd boars. 12 fall boar pigs for sale that are show prospects. Write me about these at once. Address R. J. HARDING, MACEDONIA, IOWA.

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Book of QUESTIONS on SWINE RAISING, with ANSWERS **FREE**

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KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY. Write Your Wants.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

DUROCS

We are breeding a string of sows and gilts for our winter sale that you'll like. All the popular blood lines. "Always trying to better the best." Watch this space—we'll tell you more about it.

C. W. HUFF, MONDAMIN, IA.

25 Duroc Jersey BROOD SOWS

FOR SALE at private treaty. Sired by Mammoth Critic, Belle's Chief I Am and Link's Ohio Crimson. These sows are bred for March and April farrow. Prices reasonable.

T. J. LINK, Winterset, Iowa.

REEDS' DUROC JERSEYS

BOARS all sold. We now offer high-class brood sows, sired by Model Chief 94969 and Advancer 28773, and bred to such noted boars as Model Chief 44969, Advancer 28773, the grand champion, Model Chief 2d 53753, and White Hull King 15977.

C. W. & WM. REED, ROSE HILL, IOWA.

CHIEF'S COL. BOAR PIGS

OUT of the great brood sow, Helen Blazes, and sows by Ohio Chief, Grand Advance and other great boars. Pigs ready to ship. Address for price and description.

H. E. Browning, Hersman, Illinois.

Do You Want a Well Bred Duroc Jersey Boar

I HAVE them and they are good, sired by such noted boars as Crimson Wonder Again, Guthrie Chief, I Am Advance, Golden Model 2d and others. Write me for prices on these boars.

GEO. H. MILLER, CHARITON, IOWA.

I HAVE 75 SPRING GILTS

THAT I am pricing to sell within the next thirty days. Sired by Col. Chief, Fancy Critic and others. J. P. Peterson, Hermann, Nebraska.

Deyoe Bros., Mason City, Iowa, breeders of Ohio Chief and Advancer strains; bred to a Col. boar.

DUROCS

A LIMITED number of choice gilts, grand-daughters of old Kant Be Beat for sale, bred to Model Chief Gold, a full brother to Model Chief 2d; bred to farrow in March and April; will be priced worth the money. Write

J. W. TROY & BROS., ROSE HILL, MAHASKA COUNTY, IOWA.

Brother Breeders and Farmers--Read!

THIRTY Duroc Jersey bred gilts, bred to a No. 1 hog; he is the best hog I could find in the country, heavy bone with great length of body combined, will make a 1,000-pound hog. Many of these gilts now weigh better than 300 pounds; every one guaranteed; write or better, come and see them. I will show them to you.

JOSEPH BOUSKA, CALMAR, IOWA.

The "STAY THERE" Aluminum Ear Markers are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address WILCOX & HARVEY MFG. CO., Dept. A, 325 Dearborn St., Chicago, Ill.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

HIGH-CLASS DUROC JERSEY BRED SOWS FOR SALE

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel boar. These are good. Will not hold a sale and am selling them privately. Address

J. D. McDERMOTT, WIOTA, IOWA.

Elder's Durocs

KING OF COLS. II., G. C.'s COL., and 30 of Grant Chapin's best brood sows were purchased and from these I have 125 choice spring pigs. Herd boars and choice breeding sows will be my specialty. Write your wants.

FRANK ELDER, GREEN, KANSAS.

B. & C.'S COL. Grand champion, Illinois and Iowa, 1909. Crimson Wonder III., grand champion, Nebraska, 1908, and McNeil's Model, champion under year, Ohio, Indiana and Illinois, 1907. Sows all sold. A few good boar pigs. Address Ed. A. Baxter, Pawnee, Illinois.

R. L. Comer, Carlinville, Illinois.

Speirs' Durocs Bred sows for sale; Ohio Junior 38521, Silver King, Red Eagle, Dandy Boy boars in service. G. W. Speirs, Hedrick, Ia.

MIDLAND Durocs—8 gilts and 2 sows, bred for April farrow, for sale. The big-boned, growthy kind at moderate prices. S. J. Butts, Mason City, Ia.

HORSES.

SHIRE STALLION FOR SALE

WILLIAMS' Moulton Temple 10363, two years old; chestnut sorrel; sound. Price, \$1,200. He was good enough to win three blue ribbons at the Iowa State Fair, two blue ribbons at the Illinois State Fair and three blue ribbons, two silver cups and a championship at the International.

C. C. WILLIAMS, BUSHNELL, ILLINOIS.

SHIRES, Percherons and Belgians! Best imported Shires, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

The cream of Scotland; any kind you want; we sell them reasonable. CLARKE BROS., Auburn, Neb.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. 1/2 ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

NOTED NEBRASKA DUROC SALES

GOLDEN ROD PRIZE-WINNING DUROCS

SELL AT AUCTION AT

Sutton, Neb., Wednesday, Feb'y 23, '10

40 HEAD 23 yearlings and 17 spring gilts from a herd with a record of ten sweepstakes ribbons in ten years showing at Lincoln and more than 100 other ribbons. In the sale will be ten by Medoc, the greatest breeding son of Kant-Be-Beat; 5 by Advancer III.; 3 by Kant-Be-Beat; 2 by Tom Davis; 1 by Red Wonder; and Echo Top King, Crimson Wonder 3d, Kant's Echo, Davis Chief, Belle's Chief I Am and Advancer. They are bred to Medoc, Davis Chief, a great son of Ohio Chief, Echo Top King and Golden Rod King. A combination of prize-winning blood and superior individuality is offered, bred to some of as great sires as the breed affords. Col. Callahan, Auct. The catalogs are now ready. Address

G. VAN PATTEN & SON, SUTTON, NEB.

BRIGGS' ANNUAL DUROC JERSEY SALE

TO BE HELD AT FARM NEAR

CLAY CENTER, NEB., THURSDAY, FEBRUARY 24, '10

45 HEAD An offering made up of 45 head of gilts—a lot that will fully sustain their reputation as being the leading breeders of the state. Some outstanding propositions are offered in daughters of Lincoln Wonder, the great breeding boar of Ohio Chief-Crimson Wonder breeding and out of Miss Norry, Ruby I and Clay Center Belle III. The sires of the balance of the stock are Lincoln Wonder, Cherry Boy, McK.'s Improver, Kant's Improver, Billie K's Model and are bred to Lincoln Wonder, Cherry Boy, McK.'s Improver, Kant's Improver and Briggs' Wonder for March and April farrow. These are the tops of about 100 head of gilts and have been grown in a manner to make useful, breedy sows. Col. Callahan, Auct. Catalogs are now ready and may be had by addressing GEO. BRIGGS & SONS, CLAY CENTER, NEBRASKA.

McCARTHY'S DUROC JERSEY SOW SALE

AT THE FARM NEAR

HENDERSON, NEB., FRIDAY, FEBRUARY 25, 1910

35 HEAD Consisting of 3 aged sows, 10 yearlings and 22 gilts. A useful, breedy lot of well-grown stock sired by Imp. II., Lincoln Wonder, Ohio Chief, Kant-Be-Beat, Kant's Echo, Cherry Boy, Ohio Chief I Am, McK.'s Improver, Glendale Critic 2d and Beat my Dad, an outstanding breeding boar by Kant-Be-Beat. They are bred to Lincoln Wonder, McK.'s Improver, King Wonder and Beat My Dad. Special attractions appear in lot 1, a sow by Imp. II. out of Garnett and her sister lot 2. Lot 3 is by Ohio Chief out of Royal Lass III. and a valuable sow. No. 4 is a very strong Kant-Be-Beat yearling. Nos. 7, 8, 10, 11, 14, 15, 16, 18 and 19 are also very attractive. Col. Callahan, Auct. Catalogs are ready, giving full details.

CON McCARTHY, Henderson, Neb. PARTIES FROM A DISTANCE MAY ALSO COME TO YORK.

BIDS SHOULD BE SENT TO FRED S. LARKIN, OF THE HOMESTEAD

HORSES AND JACKS.

**"HOWDY"**

Cummin' to our great sale, ain't you?
It's our fourth and best.

FINLEY'S GREATEST JACK AND JENNET SALE

HIGGINSVILLE, MO., MONDAY, FEBRUARY 28TH

30 MAMMOTH JACKS
15 MAMMOTH BRED JENNETS, FROM THREE TO SIX YEARS OLD

SEE Midland King, the great Kentucky six-year-old. See the four jacks by Dr. McCord, Kentucky's greatest show and breeding jack, that now heads my herd. I have never had such a string of big black jacks to offer. They are a great-boned lot, with good heads and ears. Send for my illustrated catalog; it tells the story. Higginsville is 55 miles east of Kansas City, on C. & A. and M. P. Railways.

W. J. FINLEY, HIGGINSVILLE, MISSOURI.

Cols. Harriman and Sparks and Other Auctioneers.



Mares Bred and Owned by Maasdam & Wheeler,
Fairfield, Iowa. ONLY THE BIGGEST AND BEST

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Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Taverrier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.

CLYDESDALE MARES

I have 60 head of imported Canadian-bred and home-bred registered Clydesdale mares. All have been wintered in Iowa and are thoroughly acclimated and ready for hard work. Big, strong, thrifty brood mares, three to six years old, weighing 1,600 to 1,800 pounds, and safe in foal. Public sale of 40 head, March 2, 1910. Watch for announcement.

LAKESIDE FARM
Len H. Lamar, Storm Lake, Iowa.

MAMMOTH JACKS

WE make a specialty of fine young jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

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Percheron and Belgian STALLIONS and Mares
Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot, 1/2 mile north of C. M. & St. P. R. R. depot. E. H. Kuekerbocker & Son, Fairfax, Iowa.

Large Heavy Boned Mammoth Jacks

FOR SALE: from 15 to 16 hands high, for \$350 and upwards. Farm located 8 miles west of Cedar Rapids.

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IMPORTED and American-bred Belgian mares, safe in foal by a reserve champion stallion at the Iowa State Fair. They are good ones, none over 4 years old, broken to harness, and in an ideal breeding condition. Also some mares not yet of breeding age. Among them are some that have been winners at the Iowa State Fair. Write for prices or come and see them. Address: CHAS. IRVINE, ANKENY, IOWA.

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$650

Antimer Wilson, Creston, Iowa.



HART BROS.

IF YOU WANT TO BUY A GOOD
STALLION OR MARE

with a good guarantee. write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.



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PERCHERON MARES

BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

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Percherons for Sale

Fifty head of imported and home-bred mares, two to six years old, bred to the best sires. Ten head of stallions, one to three years old. They are the right kind and priced right. Come and see and you will buy.

WELCH & PECK, LEXINGTON, ILL.



FRANK L. STREAM, Creston, Iowa, is selling imported Belgian, Percheron, English Shire, Suffolk Punch and German Coach stallions at \$1,000. Home-bred registered draft stallions \$300 to \$650.

FRANK L. STREAM,
Creston, Iowa.

Percheron and Clydesdale STALLIONS

I have a splendid lot of three-year-old black Percheron and Clydesdale stallions that are strictly first class and I am making bed-rock prices on them. Address

R. O. MILLER, LUCAS, IA.

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Do you want a first-class stallion or mare? Sound, big bone, size, wide back, true action. PRICES LOWEST. TERMS MOST LIBERAL—GUARANTEE GENUINE. Come and see for yourself GOODS that are a pleasure to show. Trains nearly every hour any direction. Interurban from Davenport, Iowa. Stables in town. For further information, write us.

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I HAVE THE LARGEST JACKS

In the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. **W. L. DeCLOW,** Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.

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PERCHERONS, Belgians, German Coachers

AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

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TEN head of stallions and mares for sale, ranging from 2 to 5 years of age. Home-bred horses, \$500 to \$1,000. Write, or come and see me. Address

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Next large importation—stallions and mares, Feb. 10th, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses—horses with bone, quality, size, action and best breeding, stallions or mares; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit

OAK LAWN
Catalog shows the place and the horses.
W. S., J. B. & B. Dunham, Wayne, Ill.

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WE are representing Jack Breeders' Association. They are guaranteed in every way; 14 to 16 hands high, 3 to 7 years old; black, with white points. We represent 100 jacks of the best. Can save you \$300 to \$500 buying from breeders direct.

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I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14 1/2 to 16 hands. Everything guaranteed as represented. Est. 1892.

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Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed. **W. J. BUTLER, OTTAWA, ILLINOIS.** Long Distance Phone.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address **GEORGE W. BILBO, CRESTON, IOWA.**

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. Ben Boilander, Rt. 2, El Paso, Ill.

HORSES AND JACKS.

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new importation of draft stallions and mares arrived September 20, 1909, by "Iams' own special train" of "ten express cars." They are "business propositions," that "jar the cherries" on a "wide-awake" "horseman's hat." Iams' "Peaches and Cream" stallions and mares are "eye-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. Iams makes buyers

"SIT UP AND TAKE NOTICE"

"Ikey Boys" get into Iams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 27 years' successful business. He bought and sells better horses cheaper than ever. Mamma, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at Iams. Iams has

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two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "toppers" at \$1,000 and \$1,400 (few higher), mares \$700 to \$1,000, so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000 SAVED AT IAMS' \$1,000

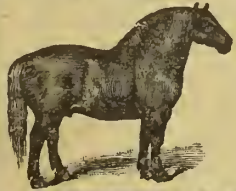
Ikey, what "a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no stallion salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams' competitors "holler." He is knocking "high prices" out of the Xmas tree. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His \$1,200 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by one-half million dollars.

Write for Million Dollar Horse Catalog, Greatest on Earth

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ST. PAUL, NEBRASKA.

REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

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GRAND ISLAND - - NEBRASKA.**

100 RHEA BROS.' ACCLIMATED PERCHERONS 100

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1908 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.



OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



Shires, Clydes, Belgians, German Coachers

OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing these where every farmer can buy. Come and see us. Address **Luben Harrison & Son, Prescott, Iowa**

HORSES AND JACKS.

LA FAYETTE STOCK FARM

SPECIAL NOTICE

WE call your attention to our first importation for 1910. **FIFTY HEAD** of stallions and mares just received in fine condition and ready for sale; big-bone drafters with lots of quality and weight. We can show over 200 HEAD of Percheron, Belgian, Shire, German Coach and Hackney stallions and mares, a great lot of horses, prize winners in Europe and America.

Come to our farm and let us show you more high-class horses with quality and at **LOWER PRICES** than can be bought any other place. Best guarantee, good insurance and square treatment. Come early while you can get a big selection.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.

PETTY BROS.' ANNUAL JACK AND JENNET SALE SEDALIA, MO., THURSDAY, MARCH 3 25---MAMMOTH JACKS---25

Nine better than 15½ hands high, 18 better than 15 hands high, all blacks with mealy points; 15 jennets bred to Orphan Boy, Prince Giant and Tennessee Winner.

TENNESSEE KING. Tennessee King, Orphan Boy and Prince Champion and grand champion jack at the Missouri State Fair in 1909, and we sell. The offering is the best we have ever made and we sell more quality seven other winners at the same show have ever made and we sell more quality are included. We won first, second and jacks of good ages than we have ever fourth on jacks three years old, first and owned at one time. You will not be third on jacks two years old, first and disappointed if you come to the sale expecting to see something real good.

Sale at our farm two miles from Sedalia. Every arrangement for your comfort has been arranged for. Send for our illustrated catalog, mentioning this paper. Auctioneers—Harriman, Sparks and others.

PETTY BROS., SEDALIA, MISSOURI.

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS



WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

**FORD & HARRINGTON, PARKER, SOUTH DAKOTA.
FAIRBURY, ILLINOIS.**

The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on Imported Clydesdale Stallions and Mares; also a few choice bred hackneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U.S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.



JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C. R. I. & P. Railway, forty miles northwest of Peoria, Illinois.

PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,



ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 18th. Ernest L. Humbert & Son, Corning, Ia.

Percheron and Belgian STALLIONS AND MARES

OUR third importation arrived January 13th; all with quality, size and action. Stallions from \$800 to \$1,000, a few show horses a little higher. Best mares \$650 in foal. I can save you from 20 to 1,000 per cent on imported horses the way business is done in this country. Every horse is sold with a reliable pedigree and guarantee. Seward is 29 miles west of Lincoln, Neb.

JOSEPH ROUSSELLE & SON - SEWARD, NEBRASKA



When Writing to Advertisers Please Mention This Paper

HORSES.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians so we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners.

We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

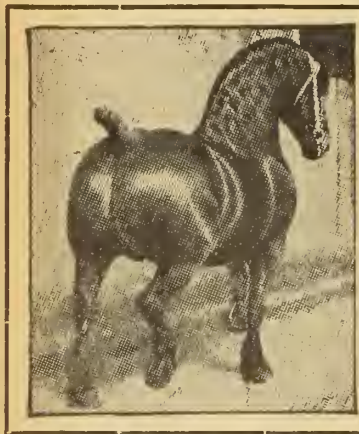
SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES



We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on

yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

PERCHERONS

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

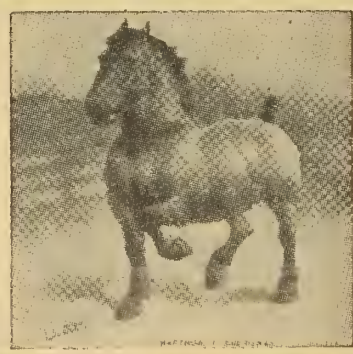
FIFTY stallions and thirty-five mares. We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA. C.O. Keiser, Keota, Iowa

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality. Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

YOU ARE MISSING THE OPPORTUNITY OF A LIFETIME



If you do not send and get OUR NEW 1910 CATALOG before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909 and are all in prime condition to go out on the stand and do a big season's business. They are nearly all solid colors, range in age from 3 to 6 years, in weight from 1,700 to 2,300 pounds. They are the big-boned, blocky type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a Government bond. **GET OUR CATALOG. It is free for the asking.**

WATSON, WOODS BROS. & KELLY CO., LINCOLN - NEBRASKA.

HOMEWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron, Belgian and Shire STALLIONS AND MARES

SIXTY head of stallions arrived August 10th. 40 head of Percheron mares arrived on Nov. 5th. We also have a choice selection of American-bred Percheron mares, fillies and stud colts. If in the market for a first-class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. **Our Motto: Prices right, terms to suit, no dissatisfaction guaranteed.** No misrepresentations or disappointment on arrival. Write our home bank for reference. Homewood is on the main line Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly from the city. **Bell Phone Homewood 204.**

Don't fail to see our exhibit of 60 head at the coming International.

S. METZ & SONS, HOMEWOOD, ILLINOIS.

Percheron Stallions

WITH SIZE AND QUALITY

PLENTY of bone and good action. That's my specialty, and I can suit the man who wants a good stallion, as both the horses and my prices are right. **COME TO SEE THEM** and you'll buy, because you'll not be able to get better bargains anywhere else. I have a choice lot of stallions for sale now—home bred and imported horses, carefully selected in France. Inspection especially asked. Notify me and I'll meet you at Ames. Farm 7 miles N. E. of Ames.

S. B. FREY, AMES, IOWA.



Ensign's PERCHERONS



OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write

S. A. ENSIGN, CLEGHORN, IOWA
C. A. PINGEON, Sale Manager.

HORSES AND JACKS.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

THIRTEENTH IMPORTATION SINCE AUGUST, 1908, ARRIVED JANUARY 25, 1910.

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in THE WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.

IF YOU WANT TO BUY A STALLION

EITHER

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any hanker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer.

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. For the asking. Address BOX 68.

Belgians and Percherons

Second importation for 1909, sixty head, arrived August 10th; third importation, thirty head, December 8th

120 STALLIONS AND MARES

Upon my farms; my four barns full. Eight miles west of Cedar Rapids; two railroads; electric car every hour.

SEND FOR NEW CATALOG

HENRY LEFEBURE, FAIRFAX, IOWA.



M. L. AYRES, SHENANDOAH, IOWA

Thirty Years a Breeder and Importer of

PERCHERON HORSES

A FINE selection of young two and three-year-old home-bred stallions for sale. The noted Brilliant bred stallion, BLANDE 35577, at head of stud. Anyone looking for a herd heading stallion will do well to patronize me. For bone, size and quality our stallions are unsurpassed. 125 to 150 head of horses on the place all the time. Come and see them or write for full particulars, mentioning The Homestead.

SPECIAL PRICES FOR FORTY DAYS

50---IMPORTED STALLIONS AND MARES---50

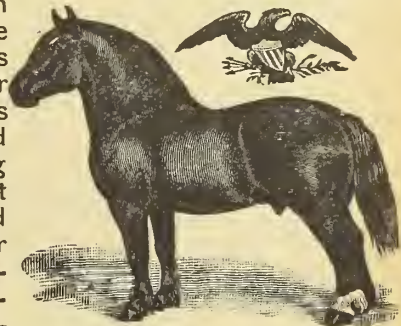
To make room for an early importation I will make special prices on a stable full of high-class Shire stallions. The weighty sort, 1,800 to 2,050, three and four years, best of legs and feet; no woolly legs nor flabby fat. Write me for particulars. **GEO. E. BROWN, Aurora, Ill.**

THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October, one in November, another shipment arrived about the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

IMPORTED PERCHERON MARES

Bred to Carnot 66666, International Champion of 1909.

Imported PERCHERON STALLIONS

2-Year-Olds; 3, 4 and 5-Year-Olds; Blacks and Grays.

If you want horses with lots of bone, quality, style and action I can please you. My January importation is now in my barns. I would like for you to see the mares bred to and heavy in foal to Carnot. Get my prices before buying. Only one yearling stallion of my entire importation is reserved. Come and see my 1910 importation.

S. J. MILLER, Kirksville, Missouri.



New Importation of Percheron, Shire and Belgian Stallions

EXTR weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. **PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.**

When Writing to Advertisers Please Mention This Paper

For Comfort, Economy and Service—Wear Ruthstein's STEEL SHOES!

Give Protection Against Colds, Rheumatism, Stiffness! No More Blistered, Aching Feet!

"Farewell—a long farewell to all my Corns and Bunions!"

The
1910
Model

Patented
Dec. 4, '06.
Others
pending



A Remarkable Invention that Adds Years to Life of Shoes!

My Steel Shoes have done more for the Workingmen's feet than any other invention of the last 100 years.—N. M. RUTHSTEIN.

Kick your old, worn, lop-sided, leaky, hard, warped, twisted, ill-fitting, foot-torturing, leather-soled work shoes and boots—your hot, sweaty rubber boots, felt boots and arctics—into "Kingdom-Come!" Wear "Steels," the wonderful work shoes with soles of steel, whose life is measured in years! Enjoy the most perfect foot-comfort you ever knew—and the great shoe economy! Steel Shoes are real shoes, for real men. Shoes that "stand the racket" of roughest service, anywhere and everywhere, in any kind of weather. Shoes that give the utmost limit of protection from dampness and chill and illness resulting from cold, wet feet. Not "freak" shoes, but sensible, serviceable, wearable footwear—high grade from top to toe!

Give Great Satisfaction to Farmers Everywhere!

Steel Shoes give such splendid protection that the wearer can work all day in the mud, slush or snow with warm dry feet. The sportsman can tramp to the end of the trail and these sturdy shoes will never fail to keep his feet free from discomfort. Steel Shoes do not run over or get tight in places after being wet, like old-style all-leather shoes. Easy on—easy off!

"Steels" Save You \$5 to \$10 a Year in Shoe Money and Repairs!

They bring welcome relief from burdensome bills for new shoes. One pair outlasts 3 to 6 pairs of best leather-soled work shoes—an actual saving of at least \$5 to \$10 a year!

Steel Shoes never go to the Repair Shop. No new heels! No half-soleing! No patching! A man who wears Steel Shoes does not need three different styles of working shoes.

FREE!

Send for book, "The Sole of Steel," or order Steel Shoes today on the blank below.

Order a Pair of Steel Shoes

Direct From This Advertisement

Steel Shoes are health-savers and money-savers for all classes of outdoor workers.

—For Sportsmen, Lumbermen.

—For Farmers, Stockmen and Dairymen.

—For workers in Gas Plants, Creameries, Paper Mills, Foundries.

—For all who work on Brick or Concrete Floors.

—For Railroad Construction Crews, Trackmen and Switchmen.

—For Mine, Mill and Smelter Men.

—For men in hundreds of different occupations.

Protect Your Feet and Pocketbook!

Steel Shoes protect the feet from accident, as they cannot be penetrated by jagged rocks, protruding nails, etc.

—They protect the feet from dampness, preventing illness and saving doctors' bills.

—They bring relief from corns, bunions, soreness and other foot-troubles.

—They save time by permitting you to work despite bad weather.

—They save \$5 to \$10 in shoe money every year, and enable you to dispense with rubber boots, felt boots and arctics.

—They cost no more than the best "all leather" working shoes.

Wear "Steels!"

Fool the Doctor! Cheat the Undertaker! Save Money and be Comfortable! (28)

Never "On Your Uppers" if You Wear Steel Shoes!

The steel soles and sides of Steel Shoes are practically indestructible. All the wear comes on the Adjustable Steel Rivets with which the bottoms are studded, and the wearer himself can replace Rivets instantly, making soles as good as new.

Steel Shoes Are Made Wear Proof and Waterproof! Steel Soles and Sides! Waterproof Leather Uppers! Bottoms Studded With Adjustable Steel Rivets!

This is the happy combination that makes "Steels" invincible! The sole and an inch above, all around the shoe, is stamped out of a special, light, thin, rust-resisting steel. One piece of steel from toe to heel! Absolutely no cracks or seams to hold moisture or mud. The Adjustable Steel Rivets give a firm foothold, and protect the soles from wear.

When the Rivets wear down, simply replace them! Fifty extra Adjustable Steel Rivets cost only 30 cents and should keep the shoes in good repair for at least two years. The soft, pliable uppers are made of a special tannage of high grade Waterproof Leather and firmly riveted to the soles. The rigid soles keep the uppers in shape as long as you wear the shoes.

Steel Shoes weigh no more than ordinary all-leather work shoes.

Hair Cushion Insoles Give Wonderful Elasticity



Steel Shoes have thick, springy Hair Cushion Insoles, made of fine selected horsehair and felt. So springy and comfortable that they rest the feet. These Insoles absorb perspiration and foot odors.

They absorb the jar and shock when you walk on hard, stony ground, cinders or concrete floors. They keep your feet free from callouses, blisters and soreness. The Insoles can easily be taken out and cleaned.

Steel Shoes in Different Heights, for Varied Uses

Sizes 5 to 12. 6 Inches, 9 Inches, 12 Inches and 16 Inches High

Steel Shoes are made with tops of different heights to meet the special requirements of all classes of men.

Steel Shoes, 6 inches high, \$2.50 per pair; better grade of leather, \$3 per pair; extra grade of leather, black or tan, \$3.50 per pair.

Steel Shoes, 9 inches high, \$4 per pair; extra grade of leather, black or tan, \$5 per pair.

Steel Shoes, 12 inches high, \$5 per pair; extra grade of leather, black or tan, \$6 per pair.

Steel Shoes, 16 inches high, \$6 per pair; extra grade of leather, black or tan, \$7 per pair.

Each style of Steel Shoes is worth at least \$1.50 more per pair than the best all-leather work shoes of the same height.

Special to the Readers of this Paper!

Order Steel Shoes for Your Working Shoes and Scientific Shoes for Dress and General Service Under My Guarantee of Money Back if Not Satisfied When You See the Shoes

For ordinary work I strongly recommend the 6-inch high Steel Shoes, at \$5.50 a pair, or the 9-inch high, at \$5.00 per pair. For all classes of use requiring high-cut shoes, such as hunting, lumbering, ditching, etc., I recommend our 16-inch high Steel Shoes at \$6 per pair, or in the extra grade of leather, black or tan, at \$7 per pair. For dress and general service order a pair of "Scientific" Shoes, at our special price of \$4; or with "Tread-Easy" Cushion Soles, at the special introductory price of \$5 per pair. Remit the price of shoes desired and I will ship promptly. You run absolutely no risk, as your money will be refunded if you are not satisfied when you see the shoes. Mail the Order Blank today!

Ruthstein's LATEST TRIUMPH "SCIENTIFIC SHOES"

for Everybody's Feet! Made of Processed Leather

These are an absolutely new kind of shoes, with three times more wear and ten times more comfort than was ever before known in Fine Footwear for Men.

They represent the efforts of a lifetime of study, experiments and ideas gained in meeting personally over 100,000 buyers of high-class footwear.

I have lengthened the life of leather threefold by the discovery of a new scientific process of tanning, and produced shoes of astounding durability.

Scientific Shoes meet the needs of all classes—business men, professional men, farmers, policemen, mail carriers, mechanics—all who are constantly on their feet.



FREE!

Write for Book "Shoe Science," or order Scientific Shoes TODAY on the blank below.

One Pair Outlasts Three Pairs of Ordinary Leather-Soled Shoes

Men who are in the habit of buying shoes at \$2.50 and \$3.50 a pair will find it cheaper to buy our \$4.00 shoes. These shoes will more than save the difference in price on repair bills alone, not to mention their comfort, their waterproof feature and fine appearance.

The special process of tanning makes the leather stronger, more waterproof, more flexible, more durable and superior in every way than that used in any other fine shoe.

Their Comfort Is Wonderful

"Scientific Shoes" Cure Corns and Bunions

These are the best and easiest fitting all-leather shoes in existence. They are made over a remarkable Natural Last, the only anatomically correct last ever used in making fine shoes. They conform to the shape of the feet so perfectly that they actually cure corns, bunions, callouses, soreness and blisters.

They give splendid protection against Rheumatism, Colds, Pneumonia, Stiffness, Discomfort, by keeping the feet warm and dry in cold, snow, slush or mud. Their high-class, stylish appearance attracts universal admiration.

Sizes 5 to 12. Save at least \$2.00 a pair by ordering Scientific Shoes at these Special Prices, offered simply to introduce the shoes quickly.

Scientific Shoes, special price \$4.00, are better than any \$6.00 all-leather shoes of other makes.

Scientific Shoes, special price \$5.00, either with or without Tread-Easy Cushion Soles, are made of absolutely the finest grade of leather that can be tanned, and are better than the best fine shoes made regardless of price.

The Tread-Easy Cushion Sole adds at least \$1.00 to the value of "Scientific Shoes," but until further notice I will, if requested, send the \$5.00 shoes with Cushion Soles without extra charge.

ORDER TODAY! Be the first in your neighborhood to wear a pair of "Scientific Shoes" for dress wear and "Steel Shoes" for your working shoes. Their comfort and durability will astonish you. State size shoe you wear. Your money back without delay or argument if you are not delighted when you see the shoes.

ORDER BLANK

for Steel Shoes and Scientific Shoes
Steel Shoe Co., Dept. 382, Racine, Wis.

Gentlemen:—I enclose..... for \$.....
in payment for..... pair Steel Shoes,
..... pair Scientific Shoes
with Cushion Soles (Yes or No).
Size..... Width.....
Name.....
Town..... State.....
County..... R. F. D.....



VOL. LV. NO. 8

DES MOINES, IOWA, FEBRUARY 24, 1910

WHOLE NO. 2733



SAVING IT ALL



Let The Galloway Do The Work

I Trust
You to
Make
30
Days'
Free
Trial
To Prove
Its High
Quality



My Personal Statement

**Most Dependable—Simple and Easy to Run Engine
Ever Made, and I Save You from \$50.00 to \$300.00
According to What Horsepower You Want**

YOU take my 30-Day-Free-Trial Offer on any size Galloway Engine and you'll say that it is just the engine you have been wanting and looking for—or I'll take it back. My promise is good.

I guarantee any Galloway Engine to be as good or better than any engine costing double my price, or take it back. You to be the sole judge. Now is just the right time to take your trial.

I promise you that you'll be satisfied, or I pay the freight both ways and the trial don't cost you a dollar.

No Experience Needed to Run the Galloway

You don't have to be an engineer. You don't have to take lessons. Any man can do the only four things necessary to start a Galloway. (That's why it has all the others beat—no "frills" at all.) Comes all ready—complete to start working with. You just—1. Turn on the gasoline. 2. Turn on the oil. 3. Turn on the battery. 4. Give the flywheel a whirl.

That's all. Then she's started, and five horses couldn't do the work my Galloway (style here illustrated) will do—day in and day out, under my

5-Year Guarantee To Work for You 365 Days a Year

Simple and sure. Always ready. Starts instantly. Stopped instantly. Can't do any harm. Can't blow up. No smoke. No steam. No soot, cinders, fire or flame. Perfectly safe. Women or a boy or girl can run it.

Save dealer, jobber and catalogue-house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. I sell them direct to you for less money than some factories can make them at actual shop cost.

All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

I've Got a Special Proposition to Make to You Write Me First

I'll write you personally and make you an offer so your Galloway Engine can pay for itself.

Pick out the Galloway you want to try for 30 Days Free on your work, from my New Gasoline Engine Book for 1909, illustrated in actual full colors. You'll find that my book will keep you busy thinking—interest you—pay you to read. It's free if you send me your name.

If you haven't got the price in cash right handy now, I'll tell you how you can get a Galloway anyway. Write me—

Wm. Galloway
President

Information You Want To Know

Here's how the other fellow answers your questions. I have hundreds of original letters like these—A lot more also in my Engine Book. Get it.

How About Cold Weather?

My engine came O. K., goes O. K., I like it O. K. and it's O. K. The engine I had last winter, I had a dread of starting it in the morning, but this one is a pleasure, for instead of 1 barrel of water, 2 pails does the job. I advise anyone wishing an engine to try the Galloway as it costs nothing to try according to their terms. W. P. Jennings, Chippewa Falls, Wis.

Is It Powerful and Economical?

When words cannot express a man's

thoughts he is up against it. I think you have the best engine on the market for the money. It is easy to start; it is simple; it is powerful, and it is a smooth runner. I or no other man knows the worth of an engine till he has used one. I would not think of being without one at any price, and, if I was buying a dozen, they would be Galloways. On the coldest morning, all I have to do is to turn the gasoline on, throw the switch in and turn half over and are gone. My brother used to sell fair engines and he was up to my place. He said my 5-H.P. Galloway beat anything he ever saw. Anybody doubting this testi-

mony, I would be glad to hear from them. E. J. Oliphant, Dodge City, Kans., R. No. 1.

Is It Simple and Easy to Start and Run?

I find the 5-H.P. engine that I purchased from you to be all that you claimed it to be. Without previous experience, I have no trouble in operating it, while several of my neighbors with other makes of engines much higher priced, have to call in experts frequently to put them in order. I certainly would not trade it for any engine I ever saw run. E. Loomis, Gilboa, Neb.

Sell Your Poorest Horse and Buy a 5-Horsepower Galloway Engine only \$119⁵⁰

YOU'LL make the best use of your time for a moment right now if you'll "Write to Galloway" and send him your name. Use the coupon below or a letter or a postal card—just the easiest way possible—and let Galloway do the rest. I'm right here at my factory, now, with the biggest Special Gasoline Engine Proposition to make you that anybody in this country can make. Don't think of buying any kind of an engine until you get a chance to hear from me and see my Big, New, Illustrated Gasoline Engine Book. It's the most reliable Power Book ever published for Farmers. All about Engines, Prices and how to get just the engine you've been looking for and practically have it pay for itself within a year. It's only up to you. I'll tell you how when you write me.

NOTE The Galloway Line Engines Run from
2 to 22-Horsepower, and

**Save You \$50 to \$300
On Direct Prices**

How Galloway Engines Save and Make You Money

1. On the Farm—Power for so many kinds of work that they practically save a big share of your hardest labor—and solve the "hired help" problem most of the year.

2. Cream Separator—Run it twice a day or 730 times a year. Think that over for the woman's sake and your own.

3. Churning—Saves all the hard work.

4. Washing Machine—Every week—it saves the Woman's work.

5. Grindstone—Saves one man's time turning.

6. Shelling, Shredding and Feed Cutting, besides running the Fanning Mill, etc., etc.

7. The Elevator and Silo—Galloway furnishes the power.

8. Sawing Wood—See Galloway's outfit and description at the right, here.

9. Pumping—Power instead of "back-work" or the windmill—no matter where your water comes from, you will thank Galloway for this suggestion.

10. Spraying Machines—Cheapest and handiest way to run them.

11. Many Other Ways—Explicated on pages 10 and 11 and all through my Big, Free Gasoline Engine Book—free to you if you send your name to Galloway. Do that right away and see about them—with hundreds of illustrations from farms and factory. Write today.

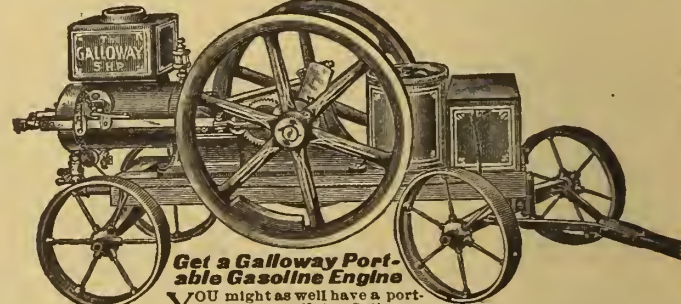
12. Grinding—Are you paying toll to some other man—why not buy a Galloway and grind all your own feed? You'll be astonished to see how much you have been losing.

Write Galloway—That's the best use you can make of your time right now while it's on your mind.



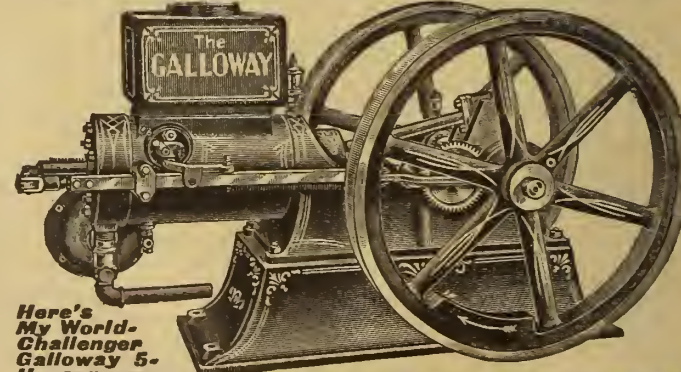
Get a Galloway 5-Horsepower Portable Sawing Outfit

WITH this outfit two men can easily saw 25 cords of wood a day at a cost of only about 20 cents a cord as compared with \$1 or more a cord if sawed by hand. On this basis you can earn from \$15 to \$20 a day; but if you earned only \$10 a day it would take you less than a month to pay for your complete outfit. Besides that, you'll use your engine permanently on every other kind of work that you want to do—the same as with my regular \$119.50 Galloway 5-horsepower engine shown below. My Great New Free Gasoline Engine Catalog explains all about this complete outfit (Style F, pages 29, 30 and 31).



Get a Galloway Portable Gasoline Engine

YOU might as well have a portable truck with the Galloway. We make trucks for all sizes of the Galloway Line of Engines from our 2-horsepower up to our 22-horsepower engine, including a truck for our 2-horsepower upright engine. The picture shown here is of the Galloway 5-horsepower engine style E on Hand Truck, fully explained on pages 29, 30 and 31 of my big, new, free catalog



Here's My World-Challenger Galloway 5-Horsepower Gasoline Engine—Just the Size Most People Want For All Uses

THIS is the Famous Galloway Full 5-Horsepower Gasoline Engine—Just the ideal engine for the most purposes—Speed 325 revolutions of the flywheel per minute—Does everything told here on this page under my 5-Year Personal Guarantee—Shipped direct to your station from my factory complete ready to use, as I ship all my engines with gasoline tank, battery box, and can of cylinder oil for you to use and try on your work at my risk for 30 days Free. Try one and you'll want to keep it. But write for my Big, New, Free Gasoline Engine Book—the greatest Engine Book ever published for practical information about gasoline engines and their many practical uses. Write to me personally for free copy of this book at my special proposition to you.

Cut out this coupon and mail to me now!

**Free
Book**

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Here's my name and address—send me FREE your Big New 1910 Galloway Gasoline Engine and Power Book—also Low Prices—30-day Free Trial offer and Special Proposition direct from your factory to me.

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IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. I also make the famous Galloway Wagon Box Manure Spreader and Complete Steel Truck Spreader. Also the Galloway Cream Separator. All sold on same direct plan as my Gasoline Engines. If interested, ask for my Spreader or Separator Catalogs—Free.

Wm. Galloway Company, of America

Authorized Capital, \$3,500,000.00

105 Galloway Station, Waterloo, Iowa

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, FEBRUARY 24, 1910.

More and Better Draft Horses

ABOUT the first of February we saw a pair of six-year-old geldings, weighing about 2,600 pounds, sell at a farm sale for \$515. They were not of the coach type, but were short-backed, little farm chunks. At another sale a mare weighing about 1,380 was sold for \$275. She was a mare of rather extra quality, but was not well ribbed up. The \$300 mark was reached by another 1,700-pound grade mare, though she was a mare of quality and weight and was in foal. Surely these are values that are deserving of some comment in these days when most of our conversation deals with "price," and particularly high price. Where will values stop? That is something we do not propose to answer specifically, though it is our opinion that values cannot change in the near future because there are not mares enough in the country to produce horses as fast as our cities are wearing them out.

An Illinois subscriber calls attention to the importance of keeping the standard up by the use of good stallions. Among other things he says:

"At the present time there is a great demand for good, heavy draft horses, for which the buyers are willing to pay exceptionally high prices. In my opinion the prices are very apt to remain high for some years to come. This does not arise so much from the scarcity of horses as from the scarcity of good ones.

"The average weight of the draft horse for use on the farm, as well as for the market, is less than it ought to be. A large number of horses are raised and used on farms at 1,000 to 1,200 pounds, when horses weighing from 1,200 to 1,400 pounds would serve the purpose much better.

"In order to get the draft horse for use on

the farm, mares of mixed blood will do if they are possessed of sufficient size and correct conformation. They should be well formed and perfectly sound, without undue roughness. It is not necessary, therefore, to go to much expense in getting mares, for on many farms the common stock will be suitable, but it is of vital importance that every care be taken in the choice of the sires.

"In every case the sire should be pure bred. One that is not cannot be depended on for correct transmission, no matter how good he may be individually. He should be of the compact type, and yet not so much so as to make movement labored. He ought to be possessed of a strong breast, a short and strong back, well-muscled hips and clean limbs, with pasterns of sufficient slope. Such a horse should beget good progeny. The breed may, to some extent, be a matter of taste, for good horses may be bred from all the draft breeds, as the Percheron, the Clyde, the Shire, the Belgian and the Suffolk.

"For a good sire a good fee should not be begrudged. When a horse of the right type sells for \$200 to \$250 at three years of age, \$10 to \$15 added to the ordinary service fee is well spent, if by paying the extra amount the end sought is realized.

"The breed chosen to furnish sires should always be adhered to unless there are good reasons for making the change. With each generation of such breeding there ought to be improvement. This will by no means certainly follow when the breed from which the sires are chosen is changed from time to time. There seems to me to be no good reasons why two or three such horses should not be reared upon the average farms every year.

"It costs no more to raise a good colt than it does a calf, and a three or four-year-old

grade draft horse is worth four times as much as the grade dairy cow of the same age, and the labor involved in caring for the colt is considerably less. I think it will pay every farmer to give more attention to the rearing of draft horses.

"The one drawback in some parts of the country at present is the lack of desirable draft stallions, but with co-operation on the part of a few farmers in each locality it would not be a hardship to purchase a pure-bred draft sire."

It would certainly be a short-sighted policy for any man to deliberately plan to spend five years on a horse in fitting him for market, and to begin the program by using a cheap stallion. Of course, some of our readers will say that they haven't much choice in the matter because they are obliged to use whatever is found in the neighborhood. That is possibly true in certain localities, but it does not apply generally. Our observation leads us to the conclusion that a cheap stallion, even though he be unsound, can in many cases put a good horse out of business—than which a more glaring example of short-sightedness could not be pointed out. If the good stallions that are already in the central West could be well patronized for the year 1910 and the cheap, nondescript horse passed up, it would mean the addition of millions of wealth to the horses of this region. Good grade draft colts, three and four years old, are selling right around \$200 at the present moment, and unless some unforeseen disaster should affect industry in general, these values must necessarily remain for years to come. We advise no man to plunge, because we believe in moderation in all things, but certainly no mistake can be made by more and more adopting the policy of doing our farm labor with mares and inci-



IMPORTED AND OWNED BY TAYLOR & JONES, WILLIAMSVILLE, ILL.

mentally carry on the business of colt production.

THOUSANDS COMMEND OFFER.

Letters commending the Red Letter Subscription Offer in the highest terms continue to pour into the office. No previous combination offer has attracted anything like the interest. The reason undoubtedly lies in the fact that the publisher selected the papers he knows personally to be the best and, moreover, those papers which meet the desires and needs of every member of the farm household.

The Red Letter Subscription Offer is simply this: Remit \$1.50 to The Homestead, Des Moines, Iowa, and the following six splendid papers will be sent to you for one entire year: The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and National Swine Magazine.

The regular price of these six papers is \$3 a year, at which price they are cheap, as each one of the six is practical and edited by men who are experts in their various lines. By the Red Letter Subscription Offer you receive the six for \$1.50, which is exactly one-half the regular price. Do not delay, but remit today. The offer will not be held open indefinitely. It is too good an opportunity to be neglected.

PINCHING THE STEER FEEDERS.

The effect of the meat boycott has apparently passed away, temporarily, at least. For a time feeders were literally "up in the air." There were tens of thousands of cattle in the central West that had just been put into the feed lot at the time when the boycott started, and an equally large number half warmed up, while others were nearing the finish. Had the slump in prices continued it would have meant millions of dollars' loss to the feeders of this country. The feeding situation has changed mightily in recent years and the present is a most inopportune time to give the courageous feeder a black eye.

The Live Stock Report, in its issue of February 4th, points out how the feeder must foot the bill in the end in case of an effective boycott. Among other things the report says:

A few years ago when corn could be bought at ten to fifteen cents per bushel, hay at \$2.50 to \$5.00 per ton and feeding cattle at three and one-fourth to four cents a pound, it was an entirely different proposition and the city dwellers as a result had cheap meat. Now good feeders are costing five to five and one-half cents per pound, corn anywhere from fifty to sixty-five cents per bushel and in some cases more, and hay \$15 to \$25 per ton. As a rule it takes six months to produce a fat steer and during that time he will consume eighty bushels of corn and hay in proportion. In addition to the original cost of the steer when put on feed, a man must figure on putting in about \$50 to \$55 worth of feed before the animal is in good beef condition, to say nothing of the interest on the investment, the labor and the risk.

It goes without saying that this country will never again see low-priced corn. A few years ago about the only outlets for the corn crop were feeding to stock, selling to distillers, and a comparatively small amount consumed in the form of corn meal. Now, however, the outlets are multiplied. In addition to the former uses, vast quantities are consumed by manufacturers of the various cereal foods, and as a result of the propaganda which has been carried forward abroad for a number of years past with a view to educating Europeans to the value of corn products as human diet, the export outlet has been greatly enlarged.

Under the above conditions the meat boycott is not only unwarranted, but futile. One might as well try to sweep back the waters of the Atlantic with a broom as to change the workings of the law of supply and demand. Instead of permanently lowering meat prices, it is far more likely to place them upon a higher level, because it presents a menace which, if long continued, will naturally deter many farmers from putting cattle and other stock on feed, thereby reducing the supply and forcing meat prices still higher. What is needed now is a restoration of confidence throughout live stock circles, which would result in increasing the supply, thereby placing prices of the dressed products upon a basis more satisfactory to the ultimate consumer.

Certainly there is nothing that will

throttle our greatest industry, the production of live stock, quicker than to boycott our meats. The feeder who puts his money, time and labor into fattening a bunch of stock at the present high price of feed, who faces the discomforts and hardships of rough weather during the feeding period, and the hazards of the market when the stock is ready to turn off, should be recognized as a public benefactor rather than otherwise.

There were thousands of bunches of steers in the central West that didn't make a solitary pound of gain during the entire month of December, although fed a heavy grain ration every day. Even during the first half of January the weather was so inclement that it took a good feeder to maintain his weights, saying nothing of gains. It follows, therefore, that the present feeding period is going to be one of the most expensive ever experienced by stockmen of the central West, not only because grain and roughage are high in price, but because the conditions of feeding have been so very bad. Unless fairly warmed up cattle will command seven cents and finished cattle in the neighborhood of nine cents a pound, feeders in general will have to charge up to themselves a snug loss this year, and there can be only one result from that experience, namely, that it will tend to cut down the amount of feeding done next year so that the last state of mind of the consumer will be worse than the first.

WHAT ABOUT THE BOY?

What are you going to do for the boy who is fast growing into a man?

"I am going to get all the work out of him I can until he is of age, then I'm going to turn him loose to hustle for himself as I had to do."

This is what hundreds of farmers all over the land are saying in answer to the above question. It is all a mistake. The boy who takes after his father wants to have a profit for his labor. If he sees no reward but something to eat and wear and a place to sleep, he is very likely to turn his steps toward the city before he is grown. He will think a job in the city worth more to him than a mere living on the farm. There are many boys that leave the farm early in life, not because they do not love the farm nor their folks, but for the simple reason that they have no interest in stock or crop or anything on the farm. Now a boy doesn't want to work hard day by day and see no returns for his labor, and parents are unwise who make slaves out of their boys. The boys will turn away from them and the farm in disgust long before they have reached the years of manhood.

Here is the way one father dealt with his boys:

I rented an east pasture to my three boys for the year. It contained thirty acres, and I charged them \$3 an acre for the use of it. The boys were delighted with the deal and they at once set to work to fertilize it. As it was only a few miles to town, they secured all the manure possible and fertilized the field well. They secured the seed from a seed house and planted the crop. Not a weed was allowed to grow, and the corn was thinned down to two and three stalks. At gathering time the boys harvested fifty bushels to the acre, which was sold to a neighbor for sixty cents a bushel. The boys cleared close to \$25 an acre on the deal. They were happy and contented and were always ready to do the work I had for them to do on the farm in tending my own crop.

The above plan is worth trying. Where it is possible the farm boy should be given a chance to do something for himself. The boy, like the man, revolts at the idea of being wholly a slave to another, even though that person be a kind father. The boy should have something to start with, and he should be allowed to make it before he is grown. Put a lump sum into his hands when he is grown, and if he has had nothing to do with the making of it for himself, he will not appreciate it or have enough judgment to handle it.

Giving a boy an interest in stock or crop, inspires in him the spirit of independence and enables him to knock up against the world with confidence that he can take care of himself. We know a boy that has recently fallen heir to \$15,000. He was not allowed to have any interest in the affairs of the farm. All he had to do was to work as his father directed. He owned no horses, put in no crops for him-

self, had nothing to do with the marketing of crop or stock, and in fact was nothing more than his father's faithful servant. Today he is unable to manage the estate left him, and it must be handled by other men for him. The father made a mistake, and as a consequence his own son was left unfitted for the battles of life.

Every father should thoroughly understand that his son has aspirations long before he is grown, and that he will at times almost cry out for a chance to do something for himself. The parent ought to see to it that this desire is satisfied by giving him a chance to work along the line he wishes. Better rent an additional piece of land and take the boy into partnership in the deal and see what he can do. It will develop the boy, make him a profit, and prepare him to take his place as a man among men.

CLOVER ON WINTER WHEAT GROUND.

A subscriber at Oakville, Iowa, sends the following communication:

I have forty-five acres of winter wheat which I drilled in a corn field last autumn. I got a satisfactory stand and I would like to seed it down with timothy and clover. What would be the best method to employ in sowing the grass seed? Do you think it would be necessary to adopt some means to remove the dead stalks?

Whether it will pay or not to remove the dead stalks from this field depends on the use that will be made of the hay next year. If it is to be fed on the farm the presence of a few dead stalks will practically do no harm, while, on the other hand, if they are raked and burned it means that a number of strips of bare ground will be left where the burning takes place, and these spots it may be depended upon will be covered with weeds.

We would advise sowing the timothy and clover just as early as possible in the spring, and then give the surface a good harrowing. This will smash the stalks to pieces and it will really benefit the wheat and cover the seed. The harrow teeth may seem to tear out a little of the wheat, but, as a matter of fact, very little damage will be done because the roots will not be disturbed. It is true that sometimes clover and timothy are seeded on the surface without any harrowing done whatever, but if that plan is adopted, the sowing should be done right away so that the freezing and thawing after the period of sowing will have the effect of covering the seed.

NO COMMISSION NEEDED.

The country life commission received a hard rap from a woman speaker at the recent convention of the Iowa Farmers Grain Dealers' Association. Digressing from her plea for equality of the sexes and for woman's representation at farmers' meetings and conventions, Carrie Vaughan Anderson said: "With all respect to Theodore Roosevelt we have no use for his commission on country life. Do we look like we need investigating and pity? We have no faith in his farm commission. The hayseed farmer is gone and in his place there is the beautiful, intelligent and honorably successful farmer. Beautiful through his wife and daughters, intelligent through his sons and honorably successful himself." The applause which greeted Mrs. Anderson was good evidence that the convention echoed her sentiments.

The belief was general among progressive grain-belt farmers at the time that there was no necessity of a commission to investigate country life. When the report was forthcoming this belief became a conviction. Something like a year has passed since the commission filed its report and no practical, tangible results have come from the whole affair. In fact, it would be difficult to say just what results might have been expected. The commission traveled about considerably, was winced and dined in large cities and secured considerable publicity, but no practical findings worth while in making farm life more prosperous or enjoyable were reported. There were thousands of farmers who felt this

at the time, but who were willing to wait and give the commission the benefit of the doubt. These apparently acquiescent spectators have thrown aside their reserve as the passing months have proved the futility of the investigation. It is highly probable that Mrs. Anderson's convictions were shared by two-thirds of her hearers, while of the remaining third those who had no real conviction on the subject one way or another made up a good majority.

OVERFEEDING BROOD SOWS.

The following communication has been received from an Illinois subscriber:

Many fine litters of pigs are lost, especially at the time when some farmers want to be particularly good to their brood sows, by giving them too much feed the first three days after farrowing.

I have often noticed that the experienced brood sow, should she be allowed to have her own way at that period and the range of the farm, will prepare her bed carefully on the south side of the hill, or with some other protection from the northwest winds. If possible, she will make her bed near a spring or slough.

If her habits are watched closely, it will be noticed that she will eat nothing the first day. The second day she will probably go to the spring and take a drink. The third day she may be looked for to come home, bringing her pigs with her with pardonable pride, and will usually bring a full, healthy litter.

I do not believe it is prudent to give the brood sow this liberty at this period. However, it would be better for some farmers if they would. By studying nature we can provide better quarters than nature will furnish, can take advantage of the instinctive wisdom of the brood sow, and also of the wisdom of man. Upon one point, however, nature is inexorable; the brood sow must not be fed heating food the first three days after farrowing. To do so is to invite caked udder, or what is known as milk fever, and kill the pigs.

The first day give nothing but water; the second day stir a little bran in it; the third, add a little bran and oats; the fourth, a little corn might be added, but the sow should not have a full feed of corn for a week or two. There is no trouble in giving bran or shorts, or ground rye or barley in the form of slop. In other words, the brood sow with a young litter of pigs should have a dairy cow's ration. She should be fed for milk and not for meat.

It should be remembered that for the first three days after farrowing the system is feverish; and that in fever there is no appetite. Therefore, to encourage a sow to eat food such as corn is to invite disaster.

Sour milk should never be given to the brood sow with a young litter of pigs, as it will cause scouring and ruin the prospects of the litter.

We have found it to be an excellent practice when the weather is cold and damp not to allow the sow to have any slop at all until the pigs are a week or ten days old. The effect of slop is to scour the little pigs and there are lots of heavy losses that are traceable to this cause.

Naturally a sow eats lightly during the twenty-four or thirty-six hours preceding farrowing time, but even though this is so we have found it a good plan to make a light ration compulsory. We doubt if there is any one mistake that will be so fatal to success in raising an even litter of pigs as that of using any system of feeding that will fever the udder of the sow. Some people think that a sow will give enough milk after farrowing unless she is fed heavily, while as a matter of fact the lack of feed for the first three or four days after farrowing has very little effect on the milk flow. A cow put on a starvation ration just after dropping a calf will give nearly as much milk during the first few weeks, as she will if fed liberally but of course she will rapidly run down in flesh. This has been demonstrated conclusively at the Missouri Experiment Station. We are of the opinion that the same general principle holds good in the case of the sow, and for that reason we endorse what this subscriber has to say about feeding lightly for several days after farrowing.

The wind that dries up the moisture has a habit of bringing more at this season of the year. As soon as the hog lots get decent they are put to the bad again with moisture in some form. A neighbor, becoming tired of feeding in mud and slush, hastily constructed a board feeding floor the other day. He has set an example more of us should follow, and next summer it would still further be to our interest to make a permanent feeding floor of concrete.

PRECAUTIONS NEEDED IN TESTING CORN.

The Ohio station has been conducting an experiment to ascertain the relative yielding ability of corn that germinates rapidly as compared with seed that germinates more slowly. The outcome of the experiment so far is rather interesting. In 1907 kernels from 600 ears were germinated in a box filled with clay loam soil, the kernels being covered with an inch of loam. The growth of the plants was noted twice every twenty-four hours.

It was found that some kernels germinated forty-eight hours quicker than others. In one case out of seed from 150 ears planted, the first ten ears, the seed of which germinated first, was planted by itself and gave a yield of 63.71 bushels per acre, while seed that was last to come up produced a yield of 66.90 bushels per acre. This was a gain of 3.19 bushels per acre in favor of the slower germinating seed. The experiment was duplicated and practically the same result was obtained.

What caused this difference? It was attributed to the comparative hardness of the kernels of the different ears, and their consequent larger capacity for absorbing moisture. The larger the proportion of soft white starch in the grain, the more rapidly it takes up water and the sooner it germinates. Variation in the thickness and imperviousness of the hull may have something to do with it also.

There will be thousands of farmers in the central West testing their corn during the next month or six weeks and we believe that the result of this little experiment will interest them. Those who use a tester where water alone is the medium for germination have a most excellent opportunity to study the character of the germination and to these we would say that too much importance should not be attached to rapid germination. In other words, one should go slowly in discarding seed that is a little tardy in germinating, because, after all, that may be the very best seed.

SAVING THE PIGS.

Pigs are good property. They are worth saving. It is poor business policy to have money invested in brood sows, houses, fences, lots and pastures, and then let a large proportion of the pigs farrowed die for lack of attention.

It is and has been the policy of this paper to urge the need of good brood sows, and to demand that they be provided with appropriate shelter, as well as suitable feed.

Let us presume that all these matters have been rightly attended to and that the sows are right up to farrowing time. It is a critical period and one at which close attention must be given if loss be avoided. Each sow must be given a house or pen which she may consider her own and in which she will feel inclined to prepare for the coming litter. This is not a matter of a day or two. Better begin a week or more in advance of the date on which the sow is to farrow if it be necessary to make a change of quarters. Give her time enough to become fully accustomed to and fully acquainted with the place. This plan tends to reduce the chance of nervousness. Along the same line of conduct it is advisable that the feeding and other work about the pen be done by the same man. We have known a sow, when removed to good but strange quarters close up to farrowing time, to set about making a nest in a fence corner or in a brush heap.

If these precautions have been taken, and a correct method of feeding has been followed, the percentage of loss of pigs at farrowing time will be insignificant. There are a good many details which, while each may seem comparatively insignificant, on the whole go to make for the success or failure of the business.

First and foremost in the interest of the newly arrived is the provision of dry and comfortable quarters. The writer favors for this purpose either of the individual houses illustrated in a late issue of this paper. These afford comparative privacy, cleanliness, good ventilation, and an opportunity to take advantage of sunshine. Dry bedding is important. It should be



For Style For Service For Everything

Where can you get a car of such proven merit as the sterling Moline?

No car on the market can show an endurance, operative and dependability record equal to the

Moline

It was the only car in the 1909 Glidden tour of 2640 miles that carried no extra parts. It was the lowest priced car that made a perfect road score.

Look at its big wheels; long, roomy, luxurious body; elegance of style, etc. Where can you equal it for \$1500? Now read the letters from owners.

Write for Catalog 296 Today.

You will make a mistake if you buy before getting full particulars about this remarkable car.

MOLINE AUTOMOBILE CO.

296 Root Street East Moline, Illinois

FROM IOWA

Moline Automobile Co.

It may interest you to know that there are seven Molines in this locality all in the hands of green, inexperienced farmers, like myself, giving perfect satisfaction.

As a hill climber and a car for country roads, I can't see where anyone could get a car equal to the Moline.

J. W. SOUTHWICK, Kalona, Ia.

FROM ILLINOIS

Moline Automobile Co.

After canvassing the automobile field thoroughly I selected a Moline Model "M." I have run the car 3036 miles; have not spent one cent for repairs; have never stopped for any adjustments at all. I consider it the best car for the money in the market.—E. W. DAVIS, Laura, Ill.

FROM KANSAS

Moline Automobile Co.

We own a Maxwell, a Buick and a Model "M." Moline at the present time, and use them continually in our real estate business. The Moline is the best hill climber we ever saw. It beats anything a person can buy for a thousand dollars more than the Moline's cost.—BIG & LAND CO., Coffeyville, Kan.

FROM WISCONSIN

Moline Automobile Co.

I have run my car a trifle over 3500 miles and have had no mechanical trouble whatever. The car is especially easy on tires; shows no appreciable wear and is always ready. I find it less trouble than caring for a horse. I use it exclusively in my practice and it is unequalled for the money.

DR. F. P. KNAUF, Kiel, Wis.

FROM INDIANA

Moline Automobile Co.

I bought one of your five passenger cars and have run it 1600 miles without the least bit of trouble. It is admired by everybody for quietness of running; wonderful power and stylish appearance. It has more friends than any car in this locality.

E. S. Martindale, Green Fork, Ind.

FROM IOWA

Moline Automobile Co.

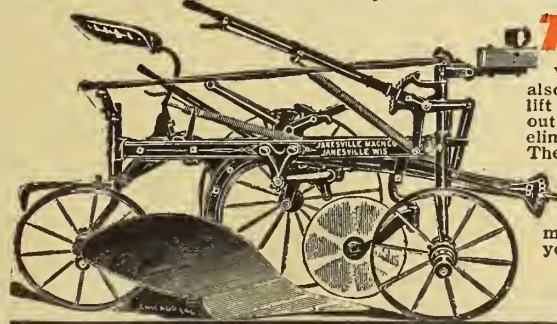
I have driven one of your Model "M" cars 4000 miles and have not had over \$3 expense. Have gone through sand until the axle dragged, also up steep hills in mud five inches deep with five passengers in car.

M. R. VAUGHN, Burlington, Ia.

The Top Notch of Plow Value Investigate The Janesville

JUST send your name and address to get our interesting Free Book about the Janesville Sulky. We'll prove to you that it saves more work, time and money than any other plow made, in addition to putting the soil in the most perfect condition. You'll find so many convincing proofs of Janesville superiority that we feel sure you'll want to investigate further—to see the actual machine—to try it. Then you'll want the Janesville because it is the most economical plow made. Economizes money because it saves time and work—because it is the last to go for repairs—because it saves your horses. Economizes horses because it is lighter draft and every horse does the same amount

of work. That's why the Janesville is the TOP NOTCH OF PLOW VALUE. Don't take our word—here's the record of the Janesville in actual field competition with most other makes: Cyrus S. Stark won the Gold Medal and the title of Champion Plowman of the World with a Janesville. It was the Janesville that swept the boards at Big Rock, Ill., on Sept. 25th, 1909. Soil conditions were about as bad as they could possibly be, but the Janesville won first and Sweepstakes prize—awarded for best work of all plows entered in all classes. Second and third prizes in same contest. Two first premiums and one second premium in sulky-plow class. Second premium in gang-plow class.



The Janesville Books Free

We want to tell you more about these contests—the Janesville plows that won them; also about the Janesville features that make them world-beaters. The foot-trip horse-lift for instance. Simply trip the "lift" with your foot and the horses pull the plow bottom out of the furrow. The point of the plow bottom always goes in and comes out first—eliminating the pull against center. Absolute control of plow bottom at any position. There are many other reasons why the Janesville is the plow for you. That's why we want to send you our book. We also make the famous Janesville Walking Plows, Riding or Walking Cultivators, Disk Cultivators, Disk Harrows and Corn Planters. We will be glad to send you all the Janesville books you request. We will also tell you the dealer in your locality who can show you the Janesville Implements. But write now for the Sulky Plow book and any of the other Janesville books you are interested in. Address postal or letter to

THE JANESVILLE MACHINE CO.

31 Center Street

JANESVILLE, WISCONSIN

changed frequently, especially during damp, snowy or wet weather. It is a good plan, too, to put a supply of bedding on the south side of the house to coax the little fellows into the outdoor sunshine as much as possible.

The feeding of the sow at this time will also bear careful watchfulness. Overfeeding is certain to produce bowel troubles in the pigs. Change of rations is not advised unless it be for the purpose of increasing the milk flow of the sow. Quite often sows do not afford milk enough for their litters. In such cases the litters have been saved by feeding them artificially (teaching them to suck milk from a bottle with a nipple) for a few days or a week, and giving the sow a liberal ration of bran or other milk-producing ration until she increases the supply enough to fill their demands. This may look like a good deal of trouble merely to save a few little pigs. But we cannot lose sight of the fact that without the little pig there can be no mature hog when market time comes. Why spend dollars to get the little pig and then lose him through lack of expenditure of a few cents' worth of time?

In this connection the development

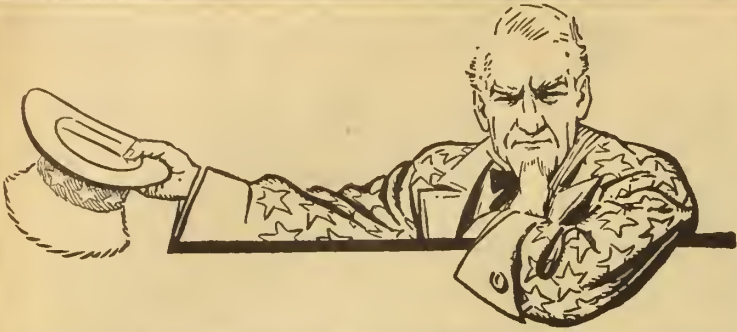
of the pig is forwarded and the strain on the sow reduced by supplying palatable feed as soon as the little fellows show an indication to eat. Ground corn and oats with a sprinkling of oil meal will do for a starter. Put a quantity of it, dry, where they can run to it at will and not be disturbed by older hogs. Later, when grass starts, whole oats make a ration hard to beat.

As bowel complaints are the source of a large proportion of the losses of young pigs, the condition of the bowels should be constantly observed. If we eliminate the effects of damp beds, the condition of the bowels of the pigs may be regulated by a regulation of the feed of the sow and usually by increase or reduction of quantity rather than change of ration. In aggravated cases of scours it will, of course, be necessary to treat the pig. For the suckling pig a tablespoonful of castor oil containing a few drops of any reliable family diarrhea remedy will be found effective. Any remedy which affords relief to a child may be given to a pig with the same certainty as to results.

Perhaps some reference to sore mouth should be made. The removal of the cause, as in the case of scours,

is the better cure. Sore mouth is more frequent in those herds in which the methods of feeding have been such as to induce a feverish condition of the sow at farrowing time. As a mere cure for the sore, apply a weak solution of coal-tar dip in ordinary cases. For severe cases of cankered sore mouth, touch the cankered spots with caustic, and apply a disinfectant wash to the surrounding parts. While it is commonly advised that the tusks of the pigs be removed, as being a prolific cause of sore mouth, we have seldom resorted to the plan. In a few cases of persistent fighters it has seemed necessary. A caked udder nearly always causes sore mouth, because the little fellows finding a shortage of fluid refreshments, fight for more, and the constant pounding on one another's noses causes the sores. Feed the sow lightly before farrowing and there will seldom be trouble along that line.

The agricultural department has issued a bulletin dealing with run-down farms in Illinois. There should be no run-down farms in Illinois or any other state in the central West. Such a condition anywhere in the Mississippi valley is utterly without excuse.



Not One Dollar for Fire Insurance!

Federal buildings, valued at \$300,000,000, carry not a dollar of insurance. They do not need protection. They are built fire-proof. Consider the saving in money every year!

Fires Cost This Country \$1,000,000 a Day

due to inflammable building material. Government reports show that during 1907 the fire fiend cost our farmers and city folk \$456,000,000 in losses and protection, $\frac{7}{8}$ of which might have been saved by concrete houses.

Farm Houses Should Be Fire-Proof

They are isolated in the country—usually miles from any fire department. A fire means total loss of property and menace to life. The progressive farmer today is building everything of concrete—not only to prevent fire—but also to save repairs, and to house his family and stock in better quarters.



Learn How To Use Cement Yourself

Our farm building department will gladly correspond with any farmer who wants to know where, what and how to build with cement. They will show him by pictures and plain, simple directions just how to mix it with sand, how to make and fill moulds, and how long to let them stand. There is no charge whatever for such service. It helps us sell cement. Our illustrated magazine "Farm Cement News" will also be sent free on request. Write to our nearest office.

UNIVERSAL PORTLAND CEMENT COMPANY

Chicago — Pittsburg
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Annual Output, 8,000,000 Barrels

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

THE ELEMENT OF BAD LUCK IN FARMING.

It is not our purpose to prove the non-existence of the indefinable, indescribable thing called "luck," but a communication received from one of our subscribers deals with the subject at first hand, using what might be called rather rough-shod methods. The concrete examples of "bad luck" he gives are by no means far-fetched and they illustrate the point quite well. This is what he has to say on the subject:

Some farmers claim to have a great deal of bad luck. They say that fate is against them, and when some calamity befalls their stock or they fail to raise a good crop they say it was all the result of their "bad luck." I say in the majority of instances it is the consequence of bad management.

A farmer tied a rope around his horse's neck and turned him out in the pasture one night. The next morning he found him dead with the calk of his hind shoe caught in the rope. He had choked himself to death. "Just my luck," the farmer said when he discovered his dead horse. No, it wasn't. It was just bad management. A horse should never be turned loose with a rope around his neck, especially if he has shoes on his hind feet, for a horse will scratch his head with his hind foot and is very liable to hang the calk of the shoe in the rope.

The other day a farmer walked out into the field where he noticed that his stock had eaten pretty well under and around a stack of hay to which they were running. It was really getting very top heavy. He concluded he would build a fence about it in a day or so and feed the rest of it over the fence to the stock. That night a storm came up and blew the stack over on one of his best cows, killing her. "That's my luck," he said when he found his dead cow. No, it wasn't. It was his poor management. He ought to have built a fence around his stack in the first place and fed his stock in a sensible manner rather than let them run to the stack and gorge themselves, trample the hay under their feet and run the risk of being caught under a tumbling stack.

A farmer kept two vicious dogs, although he had no need of either of them. They were a continuous menace to his neighbors who came to visit him and a terror to passersby. One night they killed one of his good brood sows that was soon to farrow and a number of his sheep. "I know I have the worst luck of anybody," he remarked to himself when he realized what the dogs had done. No, it wasn't his luck at all. It was the result of keeping two vicious and worthless curs. A vicious dog is a nuisance on a farm or any other place, and if a man has good judgment he will use his shotgun on him.

So in most instances when a man thinks fate is against him and he is the victim of "bad luck," if he will just consider the matter well, he will discover that the trouble came as a consequence of his bad management. Of course no farmer is immune from misfortune. Stock will die or get killed accidentally and ground will fail to yield its harvest, but the farmer is not to be censured. He may have taken every precaution necessary with his stock and farmed his land well, but the misfortune came and he could not help it. But I believe that much of the so-called "bad luck" follows mismanagement. Then it behooves every farmer to study the best methods of caring for his stock and tilling his soil. His desk or table should be covered with farm journals and he should study them at leisure moments.

The number of instances of this kind that could be given are legion, but we very much doubt if any man will profit much by the contemplation of these. As a matter of fact, however, much of the so-called bad luck that comes to us on the farm is the

result of either thoughtlessness or mismanagement. When a mare is allowed to have her colt in a filthy stall and the colt subsequently dies as a result of joint-ill, the experience is apt to disgust the average man and he quits raising colts. In this case if some fresh bedding had been put in the stall and if the further precaution had been taken of disinfecting the navel of the little colt, the danger of losing it from joint-ill would be reduced to the minimum. When a sow farrows and has no milk for her little pigs and they drop off one by one, really through starvation, we are very apt to get disgusted with the swine business and take to some other line of live-stock raising, while a little sensible care previous to the farrowing date would have prevented this dilemma entirely.

Even in the matter of crop raising a poor crop is nearly always traceable to improper methods of either handling the seed bed, the seed or in the selection of a variety. There never was a time when there was less excuse for these streaks of "bad luck" getting in their work as the present. We have the experience of the past as a guide to us, we have the result of the work done in the various experiment stations for the last thirty years to help us, while every farmer today might be called a scientist when you compare his knowledge with the knowledge possessed by farmers twenty-five years ago. We will always have our troubles as long as farms are operated, but the man who is in the game with his head as well as with his hands, is able to reduce his to the minimum.

BANKERS FAVOR THE FARMERS.

A city subscriber who had occasion within the past few weeks to negotiate a loan calls attention to the fact that money is particularly scarce at this time of the year because of the renewal of farm loans and the accommodation of farm customers by city and country banks. This situation, while old, was new to the city man, who had no idea of the extent to which the banker and the farmer are co-operating today.

While it is undoubtedly true that the number of farms encumbered by mortgages is growing smaller each year and while the mortgages which still hold are being paid off, surely and by no means slowly, yet the fact remains that each year about the first of March farmers find it necessary to negotiate short-term loans to carry them through the summer and until the harvest. The fact which the city borrower did not realize was that the banker invariably gives the farmer the first call on all available funds. He realizes that the farmer is his best customer and his best risk. In this particular case the city man was turned down flat in favor of country customers.

Nowhere in the entire country are the relations between the farmer and the banker so harmonious and so productive of the co-operation which insures the best results as in the grain belt. Practically every country town of 200 population or over has its own bank, at which the farmer is welcomed. In all towns the bank is the natural clearing house of sociability. It is here that the farmer meets his friends, discusses market conditions and prices, and arranges for the future of his business. The banker is always glad to see him and the farmer comes to look on the bank as his city home and the banker as his city representative. There is a community of interest between the two. The farmer, except in rare instances, cannot with ease do business from one season to another without the aid of the banker. The banker, on the other hand, depends largely on the farmer for his deposits. The farmer needs the banker in the spring and reciprocates by depositing his surplus money with the banker in the fall.

While the farmer is the most independent of all men on the face of the earth, he is dependent in great measure upon the banker, but has come to realize that this dependence does not imply any servility, but carries with it an element of sociability which has become one of the pleasing features of his life and occupation.

Do
You
Know



Pontiac's
WEAR WELL

High-Grade Medium Price Shoes For Women, Misses and Children

The name, PONTIAC'S WEAR WELL, means just what it says. THEY DO WEAR WELL. They also fit well and look well. Save your feet and save your money. Ask your shoe dealer for PONTIAC'S WEAR WELL. If there is no dealer in your town handling PONTIAC'S, write us and we will put you in touch with a reliable dealer who will save you money on your shoe bills. Our name is on the carton and stamped on the sole.



Pontiac Shoe Manufac'g Co.,
Pontiac, Illinois.

Startling Facts!

Prof. Holden Makes Public Test of Seed Corn
Finds Only 8 Ears Out of 100 Fit to Plant—

From Des Moines Capital,
February 1st

Corn Crop Failure

Is Certain Unless You Test Your Seed Corn

Realizing the gravity of the situation the Des Moines Daily Capital, arranged for a public test of seed corn that they might impress upon their readers the absolute necessity of testing their seed corn this year. This was announced in their issue of January 26th. The test was made under the supervision of Prof. P. G. Holden, the world's greatest corn expert, and his assistant, Prof. G. A. Stayner.

One hundred ears, selected from different sections, were used in this test, and the result is given in the reproduction opposite, which was clipped from their issue of February 1st.

Out of the 100 ears, Prof. Holden found only 8 that were fit to plant, 33 sprouted but were too weak and would have produced only nubbins or no ears at all, 59 were absolutely dead.

FARMERS, what does it mean to you if you plant corn of which from 30 to 90% is dead? There is only one way to prevent it—test absolutely every ear of seed corn before you plant it.

Each ear of corn (1,000 kernels) should produce 1,000 ears or 12½ bushels, and the extra crop from two ears discarded and good ears planted in their stead will pay for a No. 1 Holden's Ideal Tester, price \$10. It takes over 10 ears to plant an acre, and you will find more than 2 bad ears in every 10. In other words, the increase of the crop from one acre pays for the tester, and the increase of the rest of the field will be extra profit. On an 80-acre field the tester will pay for itself 80 times if you find but 2 bad ears per acre, and that is conservative. The Capital's test averaged 9 bad ears per acre.

Can you afford to get along without a tester? No! Order one at once. The time is here for you to decide. Will you heed the warning—test your seed corn—make sure of a good crop—or will you select your seed corn the old way—by looks, and then realize after it is too late that your crop is a failure—that your time and labor are wasted? And instead of having full corn cribs, like your neighbor who has tested his seed, you have half a crop or less just because you failed to take the few minutes necessary to test your seed.

Holden's Ideal Tester

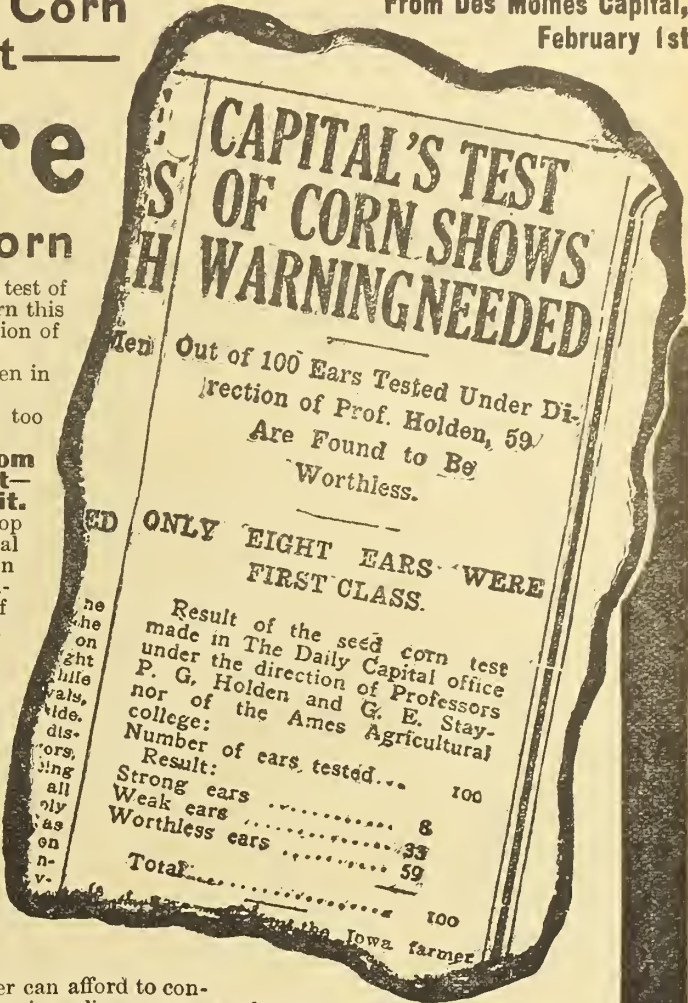
PAYS FOR ITSELF ON EVERY ACRE PLANTED

The cost is so small, the work it does so important, the increased profit so great, that no farmer can afford to continue planting corn by guess work. Farming, like any other business, must be conducted along business lines—guess work, uncertainty, indifference, are poor standards for the business man, and doubly so for the farmer. You want to be right on your seed corn this year.

Get one of Holden's Ideal Testers. They are clean—compact—practical—accurate—made of galvanized iron and will last a lifetime. They do the work safer, surer, better than anything of the kind in the world. It is the only water process tester made, which is absolutely the best and surest method for developing the germinating vitality of the seed.

It takes but an hour or so to fill the tester, and your work is done until the test is completed. At the end of three or four days open up your tester and the kernels from every ear fit to plant will be nicely sprouted. Save those ears and throw the rest out. The kernels from ears of weak vitality may easily be detected, as there will be little or no roots and the sprouts will be very weak.

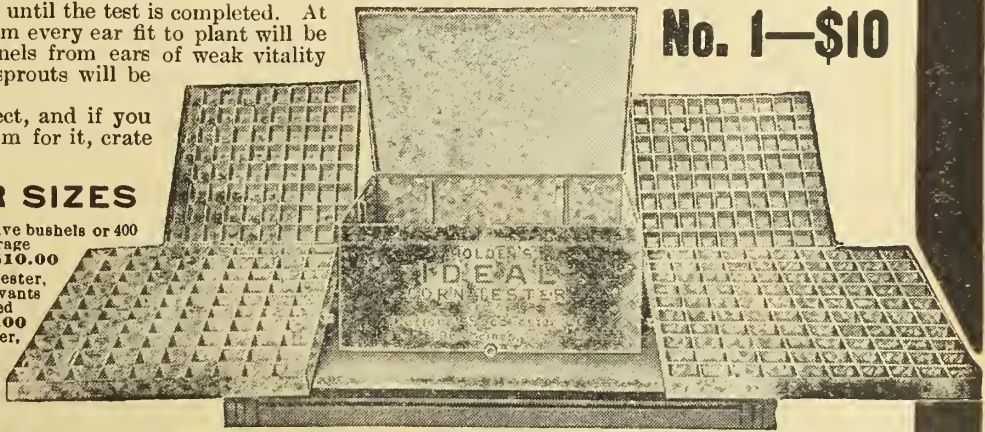
Remember, we guarantee Holden's Ideal Testers in every respect, and if you purchase one of these testers and find it does not do all we claim for it, crate it up and ship it back to us and we will return your money at once.



No. 1—\$10

MADE IN FOUR SIZES

- No. 1. Has a capacity of testing five bushels or 400 ears at a test. Just what the average farmer needs. Price.....\$10.00
- No. 2. Is a five bushel cabinet tester, especially made for the man who wants to do his testing in the barn or seed house. Price.....\$15.00
- No. 3. Is a ten bushel cabinet tester, for the man who plants a large corn crop. Price.....\$30.00
- No. 4. Is a 2½ bushel tester, for the man who has the time and can test in smaller quantities. Price.....\$5.00



Don't Wait! A Little Work Now Will Bring You Hundreds of Dollars More Profit From Your Increased Corn Crop This Fall

Thousands of reports of poor seed corn are coming in every day. One farmer at Altoona tested 60 ears and saved but 19 of them for seed. Another farmer tested 100 ears and saved but 5. Another in northern Iowa tested 128 ears and found 16 good, strong ones. These are only samples. Your corn is just as bad. The only way to be sure is to test every ear.

Prof. Holden says: "If I could give but one order to every corn grower in the corn belt, it would make a thorough germination test of the seed corn intended for planting."

Prof. Chappel, head of the Iowa Crop and Weather Service, says: "This is the worst condition farmers in Iowa have been menaced with in a long period of years. The greatest danger is that farmers will persist in picking out fine looking ears that appear all right. A farmer might as well plant a lot of lead bullets as frost-bitten corn."

The Homestead says: Test some kernels from every ear of seed corn you plant this year.

Mr. John Sunberg, president of the Iowa Corn Growers' Association, took the prize at the Iowa Corn Show for having raised 153 bushels of corn per acre. He tested every ear of seed with Holden's Ideal Tester.

Hundreds of farmers testify as to increased crop after using our tester and they would not do without the tester for ten times its price, and we can give you their addresses if you wish.

CUT OUT THE COUPON TO-DAY

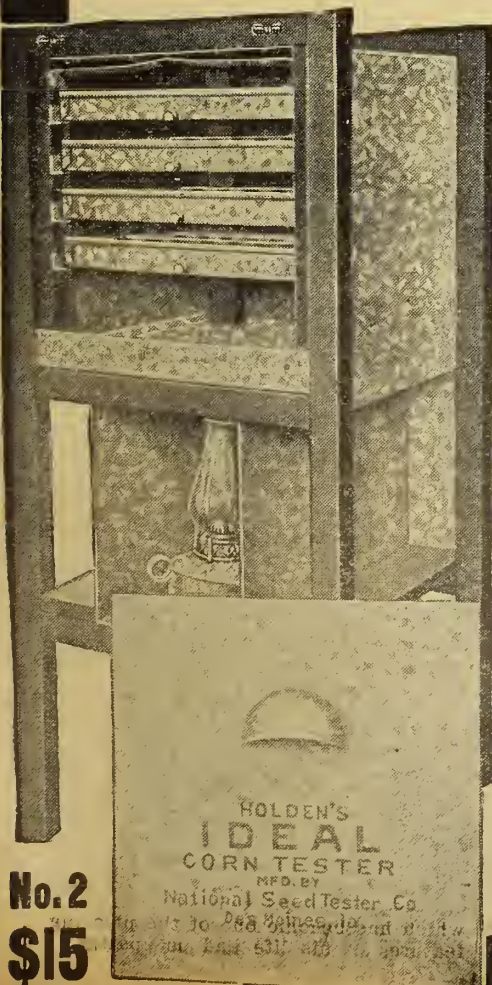
Fill it out and send it by next mail. Don't lay this paper aside with the intention of doing it to-morrow, but do it to-day—**NOW**.

Send remittance of \$10 for No. 1, or \$15 for No. 2 at once, and we will fill your order promptly. When it arrives, if it is not all we claim and not perfectly satisfactory, write us at once and we will refund your money.

You take no chances. We are absolutely reliable. Investigate us by writing any agricultural paper, or any bank or business house in Des Moines.

National Seed Tester Co. 1179 Walnut Street DES MOINES, IOWA

NATIONAL SEED TESTER CO., 1179 Walnut St., Des Moines, Ia.
Gentlemen—Enclosed find \$_____ for one of your No. _____ Holden's Ideal Testers, or send me your FREE Catalogue and Book on Testing.
Name _____ Town _____ State _____ R.F.D. _____



No. 2
\$15

FARM FURROWS

Turned By a Practical Farmer

It has been claimed that cockle-burn poison land. I believe in it. I know a field that has failed to produce good crops ever since a wet season put the man who farmed it out of the weed-killing game, and who has since not got back into the game to any considerable extent. The poor fellow tries to farm two acres for every one he should farm, consequently his land is poisoned with burs. Here of late his crops do not start off in the spring as they should.

While in the city I saw a bushel of corn that took first prize for bushel lots at the National Corn Show. It has been sold for \$280, at which price we could all afford to devote some attention to the production of pure-bred seed. I am afraid the demand for seed at that price would soon be supplied, though.

The poorest farmer I know has more than many a well-dressed man I saw in the city, besides, the farmer is his own boss, no matter how poor in world's goods he may be. The city man must wear good clothes, even if at the expense of some of the necessities of life. Good clothes he must wear to hold down his job.

I heard a man say that hay was going to be very high in price next year because a greater acreage than ever in the corn belt was out of grass and under the plow. He went on the theory that high grain prices had caused and would cause many meadows to be broken up, and consequently next fall would see some record smashing done in the hay market.

It thaws just enough every day, now, so it can have something to freeze every night.

Planters of the "variable drop" style are now on the market. A change of drop can be instantly made without stopping the team. You can plant thicker along the bottom and thinner when going over the knoll. The idea

SHE QUIT

But It Was a Hard Pull.

It is hard to believe that coffee will put a person in such a condition as it did an Ohio woman. She tells her own story:

"I did not believe coffee caused my trouble, and frequently said I liked it so well I would not, and could not quit drinking it, but I was a miserable sufferer from heart trouble and nervous prostration for four years.

"I was scarcely able to be around, had no energy and did not care for anything. Was emaciated and had a constant pain around my heart until I thought I could not endure it. For months I never went to bed expecting to get up in the morning. I felt as though I was liable to die any time.

"Frequently I had nervous chills and the least excitement would drive sleep away, and any little noise would upset me terribly. I was gradually getting worse until finally one time it came over and I asked myself what's the use of being sick all the time and buying medicine so that I could indulge myself in coffee?

"So I thought I would see if I could quit drinking coffee and got some Postum to help me quit. I made it strictly according to directions and I want to tell you, that change was the greatest step in my life. It was easy to quit coffee because I had the Postum which I now like better than the old coffee.

"One by one the old troubles left, until now I am in splendid health, nerves steady, heart all right and the pain all gone. Never have any more nervous chills, don't take any medicine, can do all my housework and have done a great deal beside."

Read "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

looks like a good one to me. Years ago I had a "variable drop" planter, but it did not vary its dropping as I wished, and using the planter a year too long cost me the price of more than one new one. This machine was not intended to be varying in its dropping, but it got that way just the same.

I have heard more than one of my neighbors speak enthusiastically about the Red Letter Combination that is being offered by this paper. As one of them put it, "If a fellow can't make money farming with the literature in that combination available, he had better pack up and go to town." This combination includes The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and The National Swine Magazine, and the six cost but \$1.50.

Gang plows used to be considered horse killers, but that was when gang plows were not made as they are now. The gang that is adjustable in its ball can be set to run true in the furrow, when it will pull no harder in proportion than the single moldboard, but let gangs pull out of line and more power is required at once. The ancient gang plow was not adjustable and the frame was given to springing.

A neighbor is "killing two birds with one stone." While breaking a team of colts, he drives them to town, four miles away, and brings home a load of manure. When the roads are good, this is almost a daily stunt for those colts.

A continuation of the winter that began early and already shows signs of staying late, is putting a premium on hay. I can remember when the cost of hay was the labor of putting it up. Now we get hay by raising it, and it is always a good plan to get as much as possible to grow on the land, for a year's use of land is worth some money, in grass or in grain.

I don't believe in bribing the children to do common chores. If training is what it should have been, when a boy reaches the "help out" age he will take more interest in the work if not started in on the bribe plan. Bribing children to pick up the cobs or bring in the wood is a good way to teach them to be politicians, but not farmers. I want my children to be farmers.

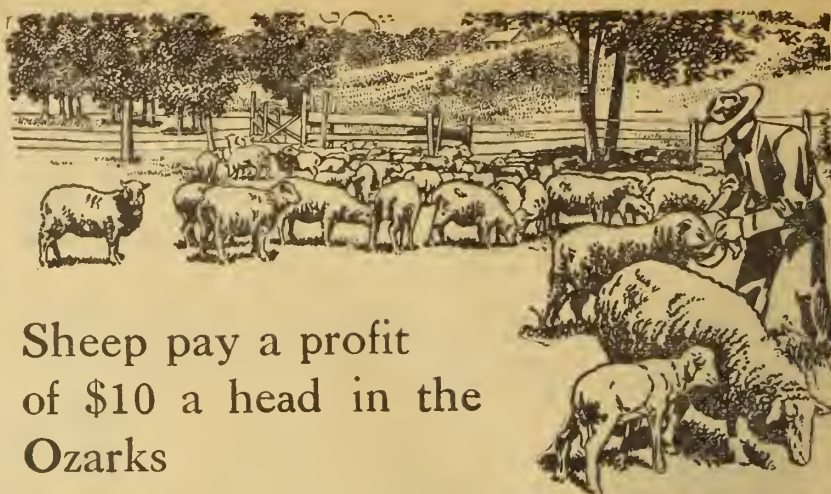
One of my neighbors believes in feeding cattle to a finish. A short time ago he told me the rule he went by. He gets the neighbors to come in and look at his steers and when all agree they are ready for market he feeds them just thirty days longer. He says those last thirty days are invariably the most profitable of all.

An Iowa farmer writes the Furrows man that all he has made in the last four years has been in increase in the value of the farm. The farm was bought for \$50 an acre and is now salable for \$80. "That \$30 an acre represents all I have made," my friend adds, "and to prove that I am no slouch of a farmer, I'll tell you that I hauled out 724 loads of manure last year." This seems to be a rare case of where manured land fails to bring forth profitable crops.

One of my friends has just written me that he is entering upon a term of service as president of farmers' club. "This is a township organization," he writes, "rich in memories and possibilities, but woefully deficient in present realities." He sees a lot of good hard, but pleasant work ahead of him and is confident that there will be a real harvest season in the whole organization.

When a boy I do not recollect going to town without the coal oil jug. Now I have a barrel tank, and get a summer's supply for the oil stove at one haul. I get it cheaper per gallon, too.

The older I get the less I find I know about horses, and the more



Sheep pay a profit of \$10 a head in the Ozarks

A good ewe will give seven pounds of wool worth 25c to 30c a pound—a lamb worth \$5 and fertilizer worth \$3—a clear profit of \$10 a year.

Sheep pay their board as scavengers on a farm by eating the noxious grasses and weeds, and should be an important part of the equipment of any farm in the Ozarks.

Sheep are healthy, free from grubs, stomach worms, and foot rot, in the Ozarks. The high rolling, well drained lands, numerous streams of cool clear water, and abundance of native grasses make sheep raising in the Ozarks sure and profitable.

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Ozarks, only waiting development.

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Intensive farming in the Ozarks can easily be made to yield \$100 an acre clear profit, by utilizing all the sources of revenue available on an Ozark farm.



It will be worth your while to look farther into this. We have some attractive books full of plain facts about the Ozarks. They will interest you. Write for free copies today.

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"looking" it takes to decide in my mind whether the horse is worth the money or not. When about twenty years of age I thought myself a good judge of a horse, but now it is plain to me that I judged myself too highly, and not the horse. Youth has to outgrow a know-it-all period.

A Vermont friend writes that he is hauling saw dust five miles to use for bedding in his dairy barn. Hay or straw, no matter how inferior in quality, is too high in price, besides being minus in quantity. I wonder if the western farmer will ever be reduced to such straits that he will find it necessary to go five miles for cow bedding.

A sack of wheat or five pounds of butter will more than pay for one year's subscription to the Red Letter Combination now offered by this paper. A single article in any one of these papers may sometimes be worth more in dollars and cents than the price of the whole combination. It will be impossible for you to read everything printed in all of them, but what does not interest you may interest some member of your family.

Still comes the record of another ear of corn, this time from Mr. Joe Johnson, of Wapello county, Iowa. This ear was gathered in 1909 and weighs 1½ pounds. It is 11½ inches long, 8½ inches in circumference and has 1,440 kernels.

I heard a fellow get so enthusiastic the other day over the importance of testing seed corn that he said we

ought to test every kernel that we planted. If that fellow keeps on he will out-Holdenize Professor Holden.

The optimist is the fellow who shakes hands with you as if he were glad to see you and tells you that a season of bountiful crops always follows a winter of heavy snows. Try to be an optimist. It pays.

Statistics tell us that the average dairy cow produces 140 pounds of butter per year. Prominent dairy authorities tell us that this output can be increased to 250 or even 300 pounds per cow. The dairy knockers, those whose herds produce 100 pounds or less per cow, tell us that such talk is all rot and that dairying is a fake. In the meantime those who are making dairying one of the main issues on the farm instead of a side line are building better homes for their families and better barns for their stock.

Dairymen should make it a point to attend at least one good meeting of dairymen every year and get as much practical information as possible from reading, but they should not fail to make the proper report to their dairy herd in a way the cows can understand. Knowing things and doing them must go together in dairying in order to make it a success.

You wouldn't wear a shoe that didn't fit, a half-hour, even if it had been paid for and couldn't be exchanged. Think of the horse that is trying to be fitted to the collar.

CURRENT EVENTS

IN SPEAKING against the proposed central bank, Leslie M. Shaw, former secretary of the treasury, took occasion to pay his respects to certain financial leaders who are too often maligned. "I would as soon place the government of the United States under the dictatorship of John D. Rockefeller, J. Pierpont Morgan, or E. H. Harriman, in his lifetime, as under the dictatorship of Theodore Roosevelt, William H. Taft, or William Jennings Bryan. One group is as unselfish as another." Mr. Shaw is doubtless perfectly sincere in his statement, but it should be observed that the government has never yet been placed under the dictatorship of any man, either the three he mentions or any other. The president never has been, and probably never will be, a dictator in the sense that the word is understood. Frequently he has an obstreperous congress on his hands; always he has constitutional limitations. But aside from this technical objection to Mr. Shaw's belief it can be accepted, for the reason that never yet has a president been untrue to his trust. It is the great glory of American politics that when men are called to the highest place in the land they prove themselves worthy, forsake being politicians and become statesmen, with the good of all and the glory and honor of country their supreme thought.

PRESIDENT TAFT'S recent visit to New York City was a rather strenuous one. He delivered a stirring speech in which he set forth his views on the important issues of the day, conferred with Governor Hughes over New York politics, posed for his portrait, took a long ride with Otto J. Bannard (the recently defeated republican candidate for mayor) and conferred with local leaders over the proposed homecoming reception to Theodore Roosevelt. His speech (in which he picked out for emphasis such subjects as postal savings banks, interstate commerce legislation and anti-injunction, statehood and conservation of natural resources) was a sort of trumpet call of defiance to the heretofore protected interests of Wall street. Commenting on the effect it produced the president quoted a saying by Jowett, head master of Balliol at Oxford, when he advised a young man: "Don't excuse, don't explain, get it done and let 'em yell." So far as he can, President Taft said, he was going to get it done and in the meantime would "let 'em yell." By which the president showed once more that he proposes to be president himself and not by proxy.

THE whereabouts of Dr. Frederick A. Cook remains a mystery, although enterprising newspaper correspondents all over the world have started numerous conflicting rumors as to his discovery. Immediately following the verdict of the University of Copenhagen that his North Pole records were mere trivial child's play, the alleged discoverer of the pole disappeared, taking some \$50,000 with him, as the results of his lectures and writings on the pole. His relatives claim to know his whereabouts, but his silence and their unwillingness to be frank with the public add to the circumstantial evidence that the doctor is the biggest faker of modern times.

THE twelfth anniversary of the destruction of the Maine in Havana harbor was fittingly observed last week and this, the exercises extending over ten days. The services began in Washington a week ago with a public meeting addressed by Rear Admiral Charles D. Sigsbee, commander of the Maine at the time of the explosion. Subsequently services were held at Arlington cemetery and in Carnegie Hall, New York, where one of the speakers was the Cuban minister. It is proposed to erect a permanent memorial in Havana to the sailors who lost their lives that fateful morning. The blowing up

of the Maine was one of the historic events in the last quarter of the nineteenth century. It crystallized public sentiment in favor of freeing Cuba from the Spanish yoke. It made patriots of partisans. The battle cry "Remember the Maine" won many a victory. The men who gave up their lives there that day deserve something of their country. A permanent memorial is little enough to do for them.

NOTHING shows better how America has become a country of luxury lovers (with its inevitable effect in contributing to bring about high prices) than the report of the importation of drinkables. The United States drank the essence of more than a billion pounds of coffee in 1909, valued at \$86,000,000. That was about a dollar's worth of coffee for every person in the United States. Tea is not such a favorite. Only a little more than a hundred million pounds, valued at about \$16,000,000, came in. But in spirits, wines and malt liquors, the nation touched its highest record for importation in 1909, and consumed foreign products of that kind to the value of more than \$26,000,000, more than twice as much as was imported in 1899.

A NUMBER of notable men were guests at the National Press Club convention in Washington a few nights ago and took the occasion to tell what their hobbies are and to defend them. Speaker Cannon declared that his hobby is "watching other men's hobbies." Speaking of ex-President Roosevelt he said he was "the greatest press agent that ever lived." Speaker Cannon asserted that more good legislation had been passed during Roosevelt's seven years in the White House than during any other similar period in the history of the United States, except during that of the civil war. "But suppose we had passed all the laws that he recommended in his message," the speaker added, "the budget of the country would be many times what it is now." Gifford Pinchot, speaking on his hobby, defined conservation as "natural resources prudently, wisely, foresightedly and economically handled and the benefit of them fairly and evenly distributed so far as the laws of the land could be made to force it, giving everybody a fair show to get his share." Dr. Harvey Wiley, of pure food fame, declared his great hobby in connection with his work had been that he should conduct it on the principle that "if there were any doubt about a matter give it to the poor man who has no way of protecting himself." It would be difficult to find a better definition than that given by Mr. Pinchot or a more laudable ambition than that of Dr. Wiley.

THE effort to have Commander Peary, discoverer of the North Pole, promoted to a rear admiralship has failed. The Senate was favorable, but the House balked on the proposition, holding that it was too big a leap for a man who had been out of the service so much in the past twenty years and who, notwithstanding his splendid record of discoveries, has shown no especial aptitude for commanding battleships in formation or on cruise. While his own government thus refuses to honor him, foreign governments are conferring high honors on the pole's discoverer. The latest is Italy, which has awarded him a gold medal, giving to Captain Bartlett (who commanded the Peary arctic vessel) a silver medal. Commander Peary is seriously considering heading the proposed expedition to the South Pole. It would set out in opposition to the British expedition which is already well under way. Lieutenant Shackleton has come within 111 miles of the South Pole and it is confidently expected that the next expedition will meet with complete success. As Commander Peary says, "Suppose one party gets there twenty-four hours ahead of the other. It may be the

biggest race ever undertaken on this footstool."

IN THE course of his recent address in New York City, President Taft took occasion to claim that the Payne-Aldrich bill revised the tariff downward and not upward as is claimed by some of the administration's enemies. He pointed out that in the new tariff there are 654 decreases, 220 increases and 1,150 items of the dutiable list unchanged. Even this does not represent the fair proportion in most of the reductions and increases, for, as President Taft said, "The duties were decreased on those articles which had a consumption value of nearly \$5,000,000,000, while they were increased on those articles which had a consumption value of less than \$1,000,000,000. Of the increase the consumption value of those affected which are luxuries, to-wit: silks, wines, liquors, perfumery and like articles, amounted to nearly \$600,000,000, while the increase not on articles of luxury affected but about \$300,


000,000 as against \$5,000,000,000 of consumption." President Taft is firm in his conviction that the republican campaign pledges were fulfilled in the tariff bill and that the good faith of the framers of the measure cannot be questioned.



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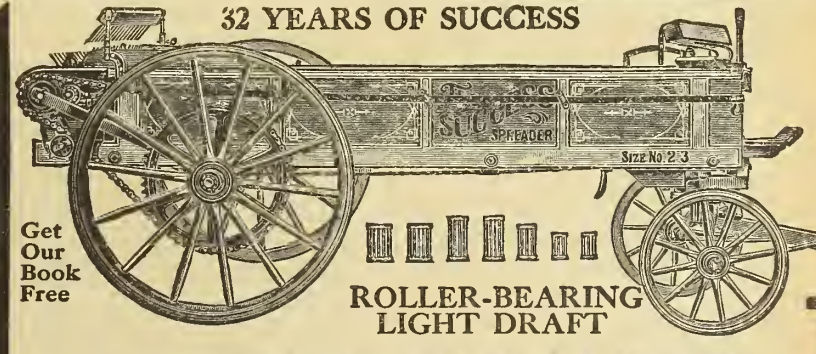
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THE APPLE AS A DRINK CURE

Announcement Made that the Apple Curbs and Gradually Eradicates the Appetite for Strong Intoxicating Drink---Food Value of this King of Fruits Set Forth by Dr. Samuel Bailey

THAT the apple is not only a staple article of diet, but that by its means the appetite for strong drink may be curbed and finally eradicated is the contention of Dr. Samuel Bailey, who delivered a valuable paper on the subject before a recent meeting of the Iowa State Horticultural Society. Because of the concise statement of the value of the apple and its possibilities as a factor in bringing absolute prohibition into existence, the paper is reprinted below:

"It is my purpose to present to you the value of the apple as an article of diet. It is not many years since apples were regarded as a sort of thing to amuse children and keep them stuffed and still, but at the present time we are beginning to look into things, to study them and analyze them, and especially is this true in regard to those articles used as food. It is not long since it was difficult to find scientific chemical analysis of such common articles of diet as apples, cabbage, turnips, etc.

"A few words as to the composition of an ordinary apple. It is about as follows: Water 85 per cent, protein 0.05 per cent, mineral matter 0.03 per cent and carbohydrates 14 per cent. The carbohydrates consist of cellulose, sugar and starch, the starch being in the largest quantity. The mineral matters are by no means insignificant, containing malates of sodium and potassium and there is also in apples a considerable quantity of phosphates

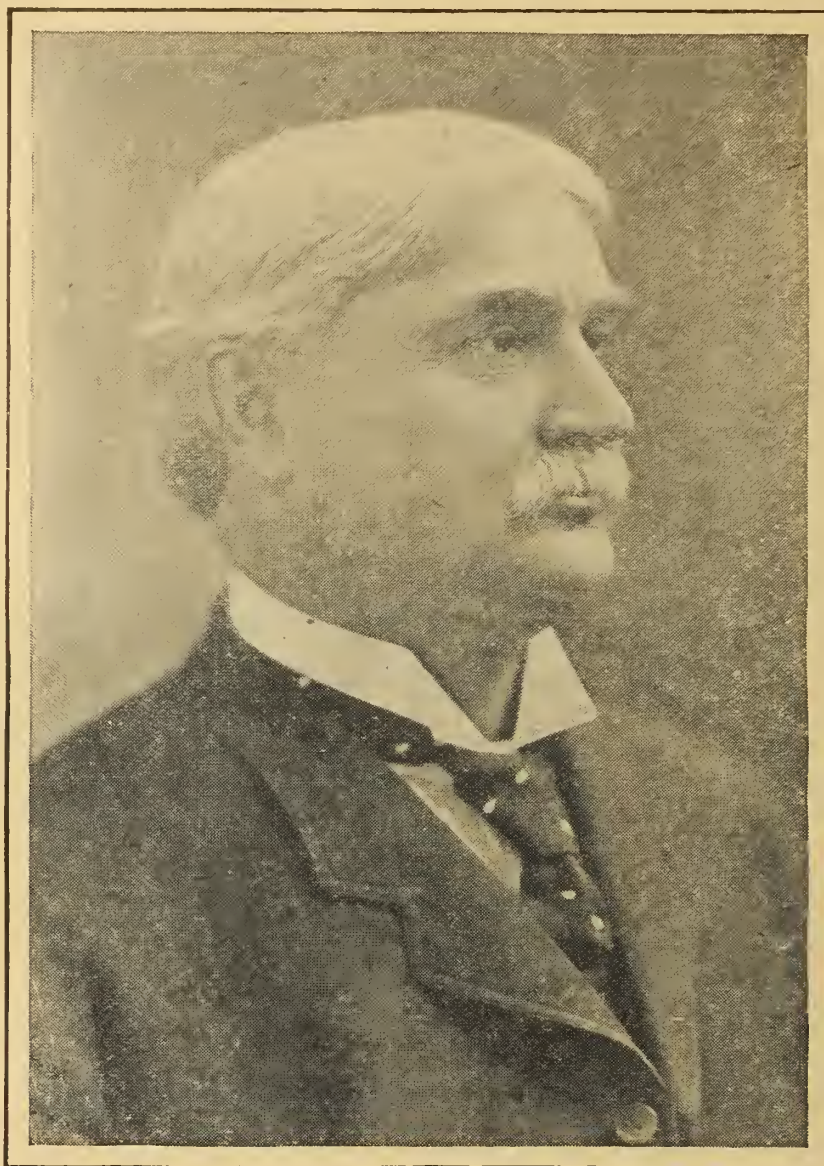
"It can be seen that there is more in the apple than would at first thought be supposed. There is nothing remarkable about the ordinary digestive process of apples. The salts and water portions are absorbed by the stomach, the intestinal juices act on the starches and sugars and also digest to some extent the cellulose. It makes quite a difference whether apples are cooked or raw. If cooked, the cellulose granules would be broken up and the starch liberated, thus making these portions more assimilable.

"Now, as to the actual value of apples as food we can only arrive at that by estimating the energy produced by their consumption. An ounce of apples will give about eighteen calories of energy. They compare not very unfavorably with potatoes, which give twenty-four calories of energy to each ounce. An ounce of bread will furnish seventy calories. Roughly speaking, four ounces of apples are about equal to one ounce of bread. An ounce of cabbage will furnish three and one-half calories, so that, roughly speaking, the food value of apples is about six times that of cabbage.

"I have shown that apples possess many of the elements of all common foods and I have also shown that the energy produced by apples as food has a fixed place among the foods. The value of these foods from a dietetic standpoint is not to be measured solely by their concentration, for apples are very valuable because they act as roughage. They furnish a considerable amount of indigestible matter, which is valuable in stimulating intestinal activity and preventing constipation. We should be guarded about using as food too much roughage, which would be as bad or worse than too little.

"It would take enormous quantities of apples or such foods to furnish the 2,000 calories of energy needed each day, but it is necessary to add these foods of low values to obtain bulk in the diet, just as horses are fed hay with their grain to make the diet bulky. For this purpose and particularly in these modern days when food supplies greatly concentrated are especially prepared, it is important that these bulky substances, such as apples, cabbage, etc., be added to the diet for the reasons above stated.

"One of the best and most wholesome of all fruits is the apple. There are other reasons why apples ought



DR. SAMUEL BAILEY,

The apple-loving doctor who believes that eating apples will satisfy the appetite for liquor and tobacco.

to be recommended as articles of diet by doctors and laity. They are easily digested, they are fresh foods, they supply mineral salts in abundance and also vegetable acids which are ex-

ceedingly valuable. No apple eaters will ever have scurvy, nor will they have constipation, which has now become one of the great plagues that harrasses and worries the higher grades of our civilization.

"I now come to one of the most important, if not the all-important factor in the use of apples as a part of our dietary. I have tried to show that the apple is quite important and especially so as an article of everyday diet. I think I have successfully proved this fact and now I am going to prove that it is of still further and greater value than all the other uses combined and they are, as you all know, of considerable moment.

"I now make this statement: That the use of apples as an article of diet will very much diminish, decrease and abate the appetite for alcoholic stimulants. That this is a fact can or could be proven in many instances if a little care, caution and vigilance were taken to thoroughly investigate their conditions.

"As a rule, the habitual user of alcoholic stimulants is rarely a lover or consumer of apples. There seems to be a peculiar combination in apples, in the acid in them, or in the peculiar chemical combinations of the apple that allays the irritation or so-called appetite produced by the use of liquors. I am also of opinion that the keen appetite for tobacco is limited by the use of apples.

"I am thoroughly convinced that any man who is a lover of whisky, and is in a condition when he thinks he must have a drink, if he will eat an apple before he takes the drink, he will find that his appetite for the drink has been very materially lessened, if not entirely abated for a time.

"I would like to have you gentlemen make careful investigation and extensive inquiry and find if you can, if any one ever saw in a grog shop or saloon, or any other place where intoxicants are sold or consumed, that apples were placed in convenient places for use as a free lunch. I have never heard of such a thing. Is this not in itself strong proof that the apple is a foe of intoxicants? Instead of apples as a free lunch in a saloon you could find all kinds of richly-spiced, salted and peppered foods—just such foods as would stimulate the appetite for intoxicants. If this last use of apples can become a settled fact with the masses the field of usefulness for the apple is just beginning to open. I am a firm believer in the fact that apples and intoxicants can never go together, that they are antagonistic and further that the time will come when the scientific, economic and sociological world will recognize this, the greater function and mission of apples."

That Dr. Bailey's views were approved by the Iowa State Horticultural Society, before which they were originally expressed, was evident by the applause at the time and subsequently by the statement of Mr. Wesley Greene, secretary of the association.

"I am firmly convinced that Dr. Bailey is right in his general premises," says Secretary Greene. "It is a subject so important that the government should order experiments and the results be published to the world without undue delay. I have frequently observed that tobacco users very rarely use apples. Whether this is a coincidence or a natural result, I am unable now to say, but it is a study so interesting and possibly so valuable that it should be pursued further."

Fortunately for the cause of prohibition the apple crop of 1909 was something like 4,000,000 barrels larger than that of 1908. Figuring 200 apples to the barrel, there were enough apples grown in America last year to stop 5,500,000,000 people from taking one drink each, or to keep the entire population of the United States from taking a drink for two months and a half, assum-



A PROHIBITION SUGGESTION.

If Dr. Bailey's theory is right, why not a tempting display with a daughter of Eve in charge?

ing that one apple substitutes for one drink and that every man, woman and child feels impelled to take one drink a day.

Whether the apple will ever come to figure to any extent as a liquor substitute or cure it would be impossible to say, but Dr. Bailey's views are so novel and so forcibly expressed that the experiments suggested are well worth trying.

MERIT IN ALL BREEDS OF CATTLE

To the Editor of The Homestead:

If you will give me the opportunity I would like to give some of our Aberdeen Angus breeders a calling-down. Since the load of Short-horns carried off the grand championship prize in carload lots at the International Live Stock Show, many Angus breeders make no bones about calling the decision a dishonest one. Now, that prize-winning load had its foundation in the herd of John B. Gillett, of Elkhart, Ill. Now, Mr. Gillett bred cattle and not pedigree, and he took more prizes with his fat bullocks than any other man in this country during his lifetime. He shipped the first fat cattle on foot to England from this country, and now that a load of steers of his line of breeding have captured the grand championship prize, I think Angus breeders should have grace enough in their make-up to acknowledge merit in a bunch of steers, regardless of their color.

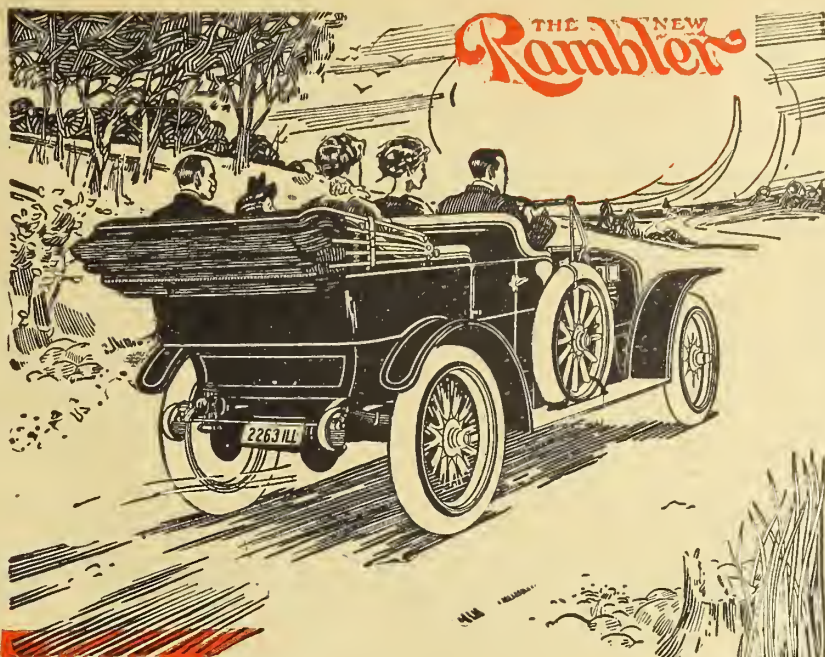
I bred Short-horn cattle for more than thirty years, and the bulls I got from Mr. Gillett worked a greater improvement on my herd than those I brought from Kentucky. I had a fine herd of Short-horns made up of whites and roans at the time when breeders went crazy over red cattle. Things came to such a pass that you couldn't sell a white or a roan, no matter how good they were as individuals, and a red with stubby, short hair and a hide as hard as a board, carrying certain blood lines, would sell out of sight. As a result of this craze the time came when there was nothing left but a lot of pedigree red scrubs, without any beef type about them. At about that critical time I think it was an Iowa man who did more to instill sense into Short-horn breeders than any other individual. I refer to Professor Curtiss, director of the Iowa Experiment Station. He told the Short-horn men without any mincing of words that they were sacrificing merit in the individual for pedigree, and he pointed out that the quality imparted by the whites and roans was needed in this great breed. The tide eventually turned and Short-horn men are again breeding quality cattle.

After Mr. Gillett's death I understand the same kind of Short-horn cattle were bred, and those who had the matter in charge never lost sight of beefing qualities, but, as a matter of fact, they succeeded in imitating closely the Angus form and I claim that the decision of the judges awarding the Short-horns the first premium at the last International was a just one. I went out of the Short-horn business when they tabooed the whites and roans, and I started in by using Angus bulls on my Short-horn cows. I found that a cross between an Angus bull and a short-horn cow resulted in the production of a steer that would fatten quickly and one that would stand the cold weather well. Gradually I have drifted into the pure-bred Angus business, though still somewhat heavily engaged in raising steers. I would like to see the Angus keep to the front, but if Angus breeders are not careful they will find themselves just where the Short-horns were ten or fifteen years ago. Too many are breeding cattle on paper and losing sight of the butcher's animal. The old families that have done so much in this country and in Scotland to make the breed are being cast aside just because some of our breeders have made a run on a few families. The prices of individuals in these popular families are boosted high, even if pluggers are sometimes used at sales to do this, and as a result I know that the business is injured. I am only speaking out plainly because I am a friend of the breed, and desire all this worship of blood lines to stop. Let us get down to breeding cattle and I would ask my fellow

breeders to be broad-minded enough to acknowledge merit when they see it in a hide that is not black. I look to the time when all our Aberdeen Angus breeding cattle will be sold on the basis of their merits as individuals. When that day comes we will demonstrate to the world that we have the best breed of beef cattle on earth. The breed stands at the top as it is, in the matter of premium winning in the steer class at the various shows, but at the rate we are going we will be dethroned sooner or later if we do not change our tactics.

R. Wilkinson.
Polk county, Iowa.

Consul Wallace, of Jerusalem, writes as follows of agricultural methods of today in Palestine: "The land is rented and farmed in a primitive way, which is unprofitable to landlord and tenant alike. The lands are rented for one-third of the crop produced. After the harvest the grain is immediately thrashed. The tithes, or government tax, are first taken, which are one-tenth of the whole crop, and then the remainder is divided, the landlord receiving his one-third share. The farmer has generally pledged a good portion of the expected crop, virtually selling it at a greatly reduced price for the purpose of securing money in advance for his necessities. If grain is \$1 a bushel, on an advance to him of \$100 he will agree to deliver to the party who advances the money 130 or 140 bushels of grain after the harvest. Should the crop fail it is carried over to the next year, but under a new contract in which 30 per cent is added to the original amount. The farmer classes have no realizing sense of the injustice done them in matters of business. They are thus kept destitute and poor, and can hardly provide themselves with the common necessities of life. The tools and implements used by them are little different from those used by the patriarchs."



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I sell my engine direct from factory and can save you from \$25 to \$100.

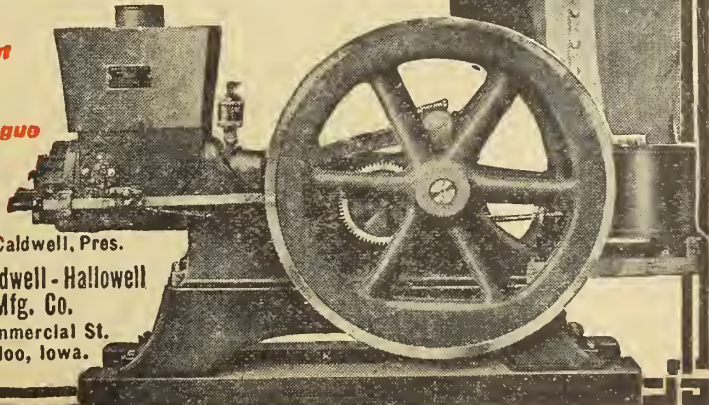
All I ask is for you to take the engine, try it free for sixty days on your own farm and if you are not fully satisfied with it, return it to me and I will pay freight charges both ways.

All my engines are well built, finely finished and guaranteed against defective material for five years. My engine is so simple that you will not have the least difficulty in starting and successfully operating it at all times. Write for my free catalogue; compare my engine with any or all engines you know of, then put my prices along side those of others and see for yourself what I can save you.

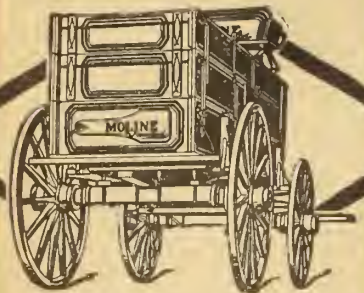
I AM making a specialty of a 4½ H. P. gasoline engine which is best suited for pumping water, grinding feed, sawing wood, shell-ing corn, operating cream separators, churning and for general farm work

Write
without
fail
for
catalogue
and
price
list.

J. D. Caldwell, Pres.
The Caldwell-Hallowell
Mfg. Co.
507 Commercial St.
Waterloo, Iowa.



Something's Happened In Wagons



Something has been happening down in this neck of the woods. It's vital to you, so we're going to give you a hint. Then it's up to you. We've got a wagon perfected down here—of air-dried oak and hickory wood stock, so far ahead of any farm wagon you ever dreamed of that there's no comparison. We've christened this wagon the

JOHN DEERE MOLINE IRON-CLAD

We adopted this name, because it describes in one word, details that would require a full page of closest type. This Iron-clad is as much different from and better than other farm wagons as 14 brand new features—found in no other wagons—can possibly make it. Mind you, 14 entirely new ideas, each one making for greater strength, endurance, economy and beauty, and the

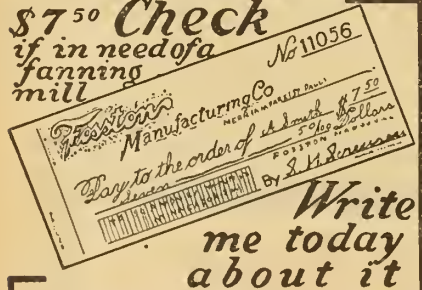
Easiest Running Farm Wagon for its Capacity in the World.

If you don't need a new wagon just now, send for prices and description just the same. But buy now, and the wagon will still be new, in 5 years, and you'll have a heap of satisfaction in between.

If your dealer knows which side his bread is buttered on, he'll supply you, but write us at once for our catalogue. It's FREE.

MOLINE WAGON CO.,
400 Third Avenue, Moline, Ill.

**I'll Send You A
\$7.50 Check
if in need of a
fanning
mill**



**Write
me today
about it**

The capacity of my factory has been taxed to the limit, by demand from Minnesota, North and South Dakota, for my great combination

FOSTON Automatic Grain Cleaner & Corn Grader

but now I am in shape to supply the whole country.

Let me send you my new book and a check for \$7.50 good at my factory, or at your dealer on the purchase of a "Foston" at regular price. You can try the "Foston" for 30 days at my expense to prove that it is the machine you want. Send for the check and book today. A postal will do.

S. N. SORESENSEN,
President Foston Manufacturing Co.
450 Cleveland Ave., St. Paul, Minn.



Minn. Crown CLOVER SEED.

Produced on the Virgin soil of our Cold Northwest, possesses the vitality, vigor & hardiness of our rigorous climate. Is free from noxious foul seeds, produces 40 per cent more than seed grown in a mild climate. Our "FARMER BRAND" Government tested Seed stands for the highest quality obtainable & complies with all the Seed Laws. We have the most complete line of CLOVER, ALFALFA, TIMOTHY and other Grass Seeds; also of pure bred Seed Grain, Seed Corn, Seed Potatoes and Garden Seeds.

Write for Prices, Samples and our large Illustrated Catalog, German or English.

Farmer Seed & Nursery Co.,
(Successors to Farmer Seed Co.)
336 8th Avenue,
Faribault,
Minn.

**Come On, You Knockers—
Yell!**

See Galloway's new deals and special proposition on page 21 for you to try a famous Galloway Manure Spreader 12 months if you like, and if it don't prove a paying investment he will give you your money back with 6 per cent interest and pay freight both ways. Send your name to

Galloway
Station,
Waterloo, Ia.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

CHANGING A NAME.

A Subscriber, Jefferson, Iowa.—A man married a widow who had one child. They want the child to take the name of the man. Is it necessary for the man to legally adopt the child in order to give it his name?

Answer.—It is not necessary for the man to adopt the child in order to give it his name. A person who wants to change his or her name may have it legally done and made a matter of record, by petition for that purpose, filed in the district court of the county where he resides, but we are of opinion that this is not necessary for a child who has not yet done any business in its original name. In such a case, all that is really necessary is to call the child by its new name, and let it be known that such is to be its name. If when the child becomes of age, it wishes to have its original name or any other, it can have it changed by law.

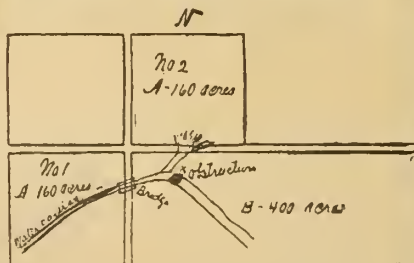
FARMERS' MUTUAL TELEPHONE COMPANY.

A Subscriber, Osceola, Iowa.—A farmers' mutual telephone company has by-laws which provide that when a member desires to sell his share he must first offer it to the company. At one time the company suspended this rule and allowed members to sell their shares to whomsoever they chose, but later at a meeting it was decided by vote to reinstate the rule so that in future, shares for sale must first be offered to the company. Now suppose a man should buy a share and pay for it, would he have a right to install a phone on the line, and in case he would do so would anyone have the right to cut him off?

Answer.—From the foregoing statement we infer that the company is not incorporated, in which case it is simply a co-partnership, and the by-laws are simply rules adopted by the members for the conduct of their enterprise. The members are bound by them, and if a person not a member buys the share of a member, it does not give him a right to install a phone on the line, and if he does so, the company can cut off his connection.

CHANGING FLOW OF WATER.

A Subscriber, Emmetsburg, Iowa.—A and B own adjoining lands as shown in the accompanying diagram. Drainage water runs in a natural channel or watercourse across A's tract No. 1, then across the road and east over B's land about ten rods where it formerly turned southwest over B's land as indicated in the diagram. This channel is about fifteen feet deep and is crossed



by a bridge twenty-four feet long in the roadway. At a point marked X in the diagram, B placed an obstruction in the channel which turned the water northeast, causing it to run over the roadway when heavy rains come, and flood A's land in tract No. 2. (1) Whose duty is it to look after this overflow so far as the damage to the road is concerned? (2) Can B be compelled to remove the obstruction he placed in the channel?

Answer.—(1) The road superintendent, and the township trustees are the proper parties to look after the damage done to the road. (2) By bringing a suit in the district court, A can obtain an order requiring B to remove the obstruction and enjoining him from thereafter obstructing the channel. He can also recover damages for the injury already caused by the obstruction. The law is well established in Iowa, that when water flows in a well defined course, be it only in a swale, and seeks discharge in a neighboring stream, its flow cannot lawfully be arrested or interfered with by one land owner, to the injury of another. Where surface

There is a Moral Side to Good Painting



Y teaching boys the importance of doing things when they ought to be done, of doing them correctly, of taking care of property and keeping everything in that condition which sailors call "ship-shape," they receive a training which will be of value throughout life.

¶ The home affords a good starting point. By keeping the house and other buildings attractive and well preserved with paint made of pure white lead

("Dutch Boy Painter" trade mark) and linseed oil, boys learn that the best is the most economical—that such paint beautifies and preserves—and never fades, chips, or cracks. It is the only kind which justifies the cost of applying it.

¶ There is still another result which comes from well-kept property. It is the pride of ownership. Boys develop a loyalty to the home in which they take pride.

¶ It is a sentiment well worth developing. It leads to thrift on the one hand and ambition to maintain a high place in the community.

¶ Our booklets on paint and painting should be read by every member of the family. Those showing color schemes and arrangement of flower beds will please the women of the household. Ask for "Dutch Boy Paint Adviser No. 18." It includes all the books and is free.

Our Pure White Lead ("Dutch Boy Painter" trade mark) is now packed in steel kegs, dark gun-metal finish, instead of oak kegs as heretofore.

NATIONAL LEAD COMPANY

An office in each of the following cities:

New York Boston Buffalo Cincinnati Cleveland Chicago St. Louis
(John T. Lewis & Bros. Co., Philadelphia)
(National Lead & Oil Company, Pittsburgh)

I WILL SEND YOU A "DAN PATCH SPREADER" ON
4 MONTHS FREE TRIAL
I'LL QUOTE YOU SPECIAL FACTORY PRICE AND LET YOU PAY ON
LONG TIME EASY PAYMENTS



**DON'T BUY ANY SPREADER UNTIL YOU
GET MY "BEAT THEM ALL" PROPOSITION**

I want to make you a Dan Patch spreader proposition that beats all competition to a stand still. It's all in my Big 4-Color Spreader Book which I'll send you free on request. Nobody can meet it or beat it—special price—4 months' free trial—freight prepaid—long time, easy payments and the only spreader in the world with a patented exclusive uniform distributing feature. Uniform distribution is the great aim of all spreaders, and that's where they all fall down. The Dan Patch is the only one that has any kind of a patent, device or feature that insures and guarantees uniform spreading under all conditions. My Big Book gives you the proof. Send for My Big Free 4-Color Spreader Book Now and Get My "Special Beat Them All" Spreader Proposition.

You'll be delighted with my Big Colored Spreader Book and fascinated with the

many beautiful pictures of Dan Patch 1:55 and my full line of Dan Patch Spreaders in colors. It's the Biggest Spreader Book ever Published and contains the most complete account of the spreader business ever published—besides that, it contains many pages of startling information about spreader quality and efficiency and reveals spreader secrets that will open the eyes of many who have never had an opportunity to learn the inside of the Spreader Business. Get this great Spreader Book and my "Special Spreader Proposition" before you take another step toward getting a spreader. Write today. I just want this one opportunity of opening your eyes to these spreader facts, and I'll guarantee my big Spreader Book will repay you a hundred times over for the little effort it will take for you to write me now. Just Write Me the Easiest Way.

THE M. W. SAVAGE FACTORIES CO., Trial Dept. 34, MINNEAPOLIS, MINN.

When Writing to Advertisers Please Mention This Paper

water has no defined channel or course, but spreads out over the land, it may be turned by a land owner in any direction.

PARTITION FENCE—NEBRASKA.

A Subscriber, Hendley, Neb.—If I build my half of a partition fence and the owner of the adjoining land sets his half of the fence back four feet, can I compel him to put it back on the line?

Answer.—You can. First, ask him to set his half of the fence on the division line, and if he refuses or neglects to do so, you will have to have the matter settled by the fence viewers. Justices of the peace of the county are ex officio fence viewers. Choose one, and notify your neighbor in writing to choose another. If he neglects to do so for eight days, you may choose the other. The two fence viewers so chosen, meet and examine the premises and hear the allegations of the parties, and in case of disagreement they choose a third viewer to act with them. The decision of any two of them is final and binding on both parties. The decision is reduced to writing and filed with the county clerk.

TENANT HOLDING OVER.

A Subscriber, Edgar, Neb.—A owned a farm and rented it to B during the last year. B's time as tenant will expire on the first day of March, 1910. Last summer A sold the farm to C who lives in town. C is to have possession on the first of March, 1910. On account of the deep snow which came early in the winter B cannot get his corn out of the field by the first of March; also he has a long distance to move, and the roads are in such bad condition that it is almost impossible for him to vacate the place by that time. (1) Can A compel B to vacate the place on March 1st? (2) What notice, if any, must C serve on B to compel him to vacate? (3) How long after the service of notice can B remain on the place?

Answer.—(1) Theoretically he can—practically he cannot. The term ending on March 1st, it is the duty of the tenant to vacate and surrender the rented premises without any notice,—but if he does not do so, the landlord is forced to oust him by legal proceedings which occupy time, and until a decision is rendered B remains on the place. (2) Before commencing suit to oust B, A must give him three days' notice in writing, to quit. (3) Till the matter is decided by the justice of the peace—say from one to two weeks.

ADVERTISING NOTES.

The Ventilation of Barns.

The question of how best to ventilate barns and stables has been a vexed one. While most farmers and all builders appreciate the need of a system for the introduction of better air and the escape of foul air from barns and stables they have been unsuccessful in their endeavors to perfect one that accomplished the purpose. It remained for Messrs. Sobolik & Peterson, of Cresco, Iowa, to devise a cupola which should serve as a most successful ventilator. It is advertised on page 37. Through its use a constant current of fresh air is insured. It is made to fit any roof and possesses a handsome appearance which makes it an ornament to any building. For further description and prices address Messrs. Sobolik & Peterson, Dept. 3, Cresco, Iowa.

The Murray Buggies.

The advertisement of the Wilber H. Murray Mfg. Co. on page 29 is well worth while to those who will be in the market for buggies and harness at any time soon. This company issues the Murray 1910 style book of vehicles and harness which illustrates, describes and quotes prices on all the products of the Murray Company. The Murray buggies have been on the market for many years and need no endorsement to those who have seen or used them. They are sold direct to the readers of The Homestead at prices which cannot be met by competition. They are sold on a four weeks' trial, safe delivery insured and under a two years' guarantee. The style book should be in the hands of every farmer. It is sent free of cost, postage prepaid, to all who apply for it to the Wilber H. Murray Manufacturing Company, 372-378 East 5th St., Cincinnati, Ohio.

The Avery Engines.

In traveling about the country it is not unusual to meet a traction engine. The writer has been particularly impressed when meeting an Avery engine with the business-like appearance of its build. The Avery is different from all others and, as announced in the big advertisement on page 56, it is the only engine of its kind on the market. It is built like a railroad engine, which means that it is thoroughly effective in the production of great power and in the use of that power. The power furnished by the Avery engine is at a lower cost than in the case of any other engine. The Avery engine is made by the Avery Company, of Peoria, Ill. It is adapted to all the various uses such as plowing, road building, general hauling, thrashing, sawing or

Corn Experts Say:---Test Your Seed Corn

You Can't Judge Vitality by Looks

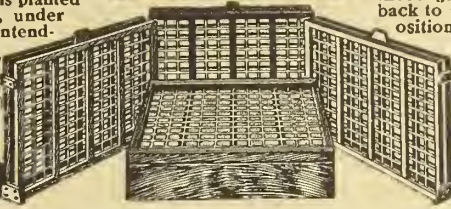
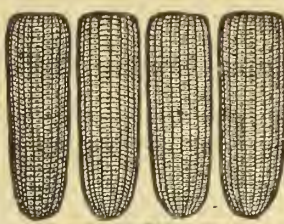
The germ in seed corn was more or less damaged by early frost last fall so don't depend on picking out your seed corn by looks. Test it and find out if the germ is alive. You can't afford to plant weak seed. Test every ear this year before planting, then you'll have a full stand and not have to replant or cultivate a half stand all summer.

"New Ideal" Corn Tester

Tests Nature's Way---Right in Soil
Test your seed corn in a "New Ideal" Seed Corn Tester. Every kernel in the test is planted directly in the same soil as in the field, under same uniform conditions as nature intended and each kernel has the same opportunity to show its strength and vitality; that's the safest and the surest way.

Ulbrich Seed Corn Tester Company

Send
For Our
FREE Book



You Can't Afford to Plant Weak Seed

Don't depend upon your judgment or someone else's by guessing that your corn will grow. Save time, money and labor by testing every ear of corn you plant this spring. The "New Ideal" Corn Tester will test enough to plant 40 acres at a time and the money saved on a single test will more than pay for the complete outfit. Nothing you can do on a farm will return a greater profit.

YOU CAN TRY IT FREE. We will send you a complete "New Ideal" Seed Corn outfit on FREE TRIAL. Fill it and try it out and if you are not thoroughly satisfied with it in every way, ship it back to us at our expense. This is a fair proposition to you and no farmer will hesitate when he figures up what it means in dollars to plant poor, weak seed. Write today for our FREE book and get it by return mail.

310 Walnut Street
Atlantic, Iowa.

Get
It On
Free Trial

in fact, any purpose for which power may be required. Readers of this paper who are interested in an engine of any sort, will do well to refer to the advertisement and for specific information fill out the coupon there to be found and mail it to the Avery Company, 169 Iowa St., Peoria, Ill.

Extraordinary Automobile Interest.

The extent to which farmers have become interested in automobiles is perhaps best indicated by the fact that at the ninth annual automobile show, held at Chicago recently, a large proportion of the cars sold went to farmers, stockmen and fruit growers. Contrary to anticipations the demands at that show were for cars of quality and comfort rather than those of low price. It is remarkable that the manufacturers of the Rambler cars during the seven days of that show sold 175 separate cars, the total valuation of which amounted to \$350,000. This is perhaps some indication of the superiority of the Rambler. Our friends who are interested enough to care for further information may secure it by writing to the manufacturers, Messrs. Thos. B. Jeffery & Co., Kenosha, Wis. See advertisement on page 11.

A Harrow Innovation.

The advertisement of Messrs. Caswell Bros., of Cherokee, Iowa, on this page, sets forward some of the advantages of the Caswell revolving harrow. This is a more recently developed implement which has many uses and which is really of value at times and places when the ordinary harrow would be out of the question. It is, in fact, an attachment which may be fastened to any riding plow. It revolves automatically, harrows while you plow crosswise, while the ground is soft, down the ridges, and levels up the holes and uneven places. It leaves the surface soft and closed and thus prevents evaporation. It has dozens of other advantages which we cannot now take time to enumerate. It may all be learned, however, by writing for descriptive circular to Messrs. Caswell Bros., Cherokee, Iowa.

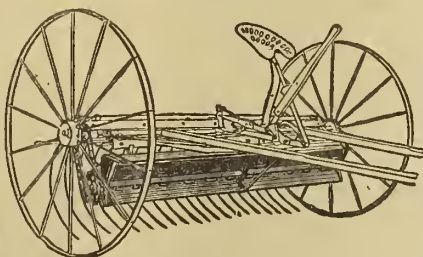
New Light for the Home.

A remarkable revolution in lighting homes, stores, halls and churches has been accomplished by the Wonder Incandescent Coal Oil Lamp. This marvelous invention burns common kerosene oil, but gives illumination equal to six brilliant electric lights. It is many times brighter and cheaper than electricity, gas or gasoline; costs no more to operate than the old style lamp and at the same time is absolutely safe, cannot explode, and gives out no odor. Over 30,000 homes are now using the Wonder Lamp. Any reader of this paper using oil lamps who writes to the United Factories Co., 904 Wyandotte St., Kansas City, Mo., simply giving their name and address and nearest express office, can try this lamp in their own home. Write today for their special proposition to place a lamp free in every neighborhood. The United Factories Co., of Kansas City, is one of the largest lamp houses in America and is reliable. See page 37.



A Seeder Innovation.

While we Americans are quite apt to boast of our up-to-dateness in the equipment for the ordinary vocations of life, it just happens that once in a while the discovery is made that we are a little behind the times. This condition is brought prominently to mind by the illustration which appears herewith of a combined hay rake and grass seeder. This combination is not uncommon in many of the countries of



Europe. It is used extensively in the spring for sowing and grass seeding. Sometimes it is the practice to use it keeping the teeth down on the soil and

AGENTS, HURRY! IT'S GREAT! GET AN APPOINTMENT -- \$50 TO \$100 A WEEK

SENSATIONAL OPPORTUNITY FOR MAKING MONEY---MEN AND WOMEN

Every home needs---wants---must have it. Women buy eagerly. Agents excited. Orders coming thick and fast. Brand new. Field untouched. Nothing ever like it before. **FREE SAMPLES TO AGENTS.** Never such a seller. Never such a wonder in invention. Be quick---don't wait---experience unnecessary. Just listen! One woman made \$24 first half day. W. H. Morgan, Pa.: "Sold 45 Cleaners in 25 hours. Have sold 2 out of 3 persons canvassed." Marvelous results reported from every state. Read on about this great modern household invention. Millions have wanted---needed---for years. Only enjoyed by rich. But here at last for rich and poor. New **Vacuum Cleaner**---Blessing to all. Rushing, whirling, sucking air draws dirt, dust, germs from carpets, rugs, matting, while they remain on floor. Strange---bewildering---phenomenal. No electricity---no motors---no power. Operated in any home by child or frail woman. Weighs 8 lbs. Different from anything ever seen. Purifies atmosphere---wards off disease---stops doctor bills. Sucks dirt from carpets, rugs, matting---from crevices, beneath radiators, furniture, behind doors, closets, etc. Sold on demonstration. Women can't resist. Shown in three minutes. Sold in five. Then on to the next. Women praising, make sales easy. Saves drudgery, cleaning, dusting. Saves taking up carpets---saves time and money. No more brooms, brushes, dust cloths. No more backache. Never such a money maker---never such a blessing to women. Never such a chance to make money easy---quick. Big profit on every sale. But you must hurry.

READ HOW THE MONEY ROLLS IN. Agencies going. Everywhere. On the jump. C. E. Goll, Mo.: "Sold 5 Vacuum Cleaners last Saturday,---my first attempt." Gustave Anderson, Minn.: "Enclosed find order for 12 Vacuum Cleaners. Ship prompt." One man sold a dozen 3 days. F. I. Pierce, N. Y.: "Write more than pleased with Home Vacuum Cleaner. It does all and more than you claim for it." Prof. Geo. S. McDowell, Pa.: "Took 8 1/2 acres fine dirt from carpet 10x13 feet." L. Banville, Ohio: "The New Home Vacuum Cleaner greatest ever. Have arranged for demonstrations in stores." And so it goes---all eager, all say "It's great." So hurry. You can't fail. Get busy now. Grand invention---great seller. (Hurry! Join the money makers.) Get this money. Don't be satisfied with small wages. Don't just exist. How splendid to always have money in abundance. Break away! Send today. Don't write a letter---just a card. Only write---that's all. Begin now to make money. Frank Williams, Neb.: "Home Vacuum Cleaner a dandy; works to perfection---without raising dust." **DON'T WORK FOR WAGES.** Gain freedom from drudgery, long hours, bossism, job hunting. We want more Agents, Salesmen, Managers---men and women, at home or traveling, all or spare time to fill orders, appoint, supply, control sub-agents. You can't make a mistake. Listen! John Logan gave up \$12 job driving team, now makes \$50 weekly. Writes "Sold 15 cleaners today. Success is sure." That's the way they all read---so hurry and write. **SEND NO MONEY**---just your name on a card. We'll send full instructions and offer good territory. We'll help; we'll start you making money. Write **R. ARMSTRONG MANUFACTURING CO.,** 647 Alms Building, CINCINNATI, OHIO.

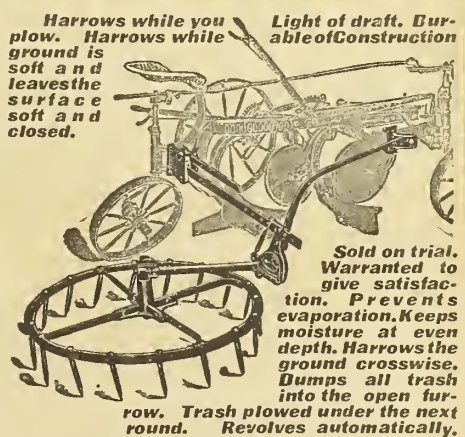
The Caswell Revolving Harrow

Harrow With A Drag Tooth as Soft Ground Should be Harrowed.

The harrow is attached to the plow so that 4-6 inches extend over the open furrow. This makes the side opposite the furrow draw heavier and the harrow revolve, harrowing crosswise and dumping the stalks into the furrow. The crosswise motion breaks the lumps, levels the surface and leaves it soft and closed as a harrow should---this retains the moisture and makes a perfect seed bed, besides saving much labor and time for men and teams.

This implement has been thoroughly tested out during the past year all over the country. It is certainly a winner. Write us today for our prices, which are the lowest and for our terms and guarantee. You can't afford to be without this little money maker and crop maker. Write us a post card---write on anything, but be sure and write.

Caswell Manufacturing Company, Cherokee, Iowa.



Sold on trial. Warranted to give satisfaction. Prevents evaporation. Keeps moisture at even depth. Harrows the ground crosswise. Dumps all trash into the open furrow. Trash plowed under the next round. Revolves automatically.

at other times the teeth are locked up so that it is used simply as a grass seeder. The illustration shows a one-horse seeder. With its use seeding may be done more evenly than with a wheelbarrow seeder and with much less effort on the part of the man. Some interesting facts with reference to this seeder may be learned from a little booklet entitled, "Building Up an Industry." It is sent free of charge to the readers of this paper who write for it to the William Fetzner Company, Springfield, Ill. See page 43.

Standard Veterinary Remedies.

Everybody in the West is somewhat acquainted with the Standard Stock Food Company, of Omaha, Neb. This concern is one of the pioneers in the manufacture of effective and reasonably-priced stock foods and the goods which they produce are known through the whole live-stock world. Later the company have taken up the manufacture of veterinary and live stock remedies, as will be noted in the big advertisement on page 15. A complete list of the remedies there given will show that they cover the entire field of demand for such goods. As a means of introducing these goods to our readers the Standard Stock Food Company offer to send \$3 worth of them absolutely free to any readers of The Homestead

CORN BELT MILL

This mill is strongly constructed, and takes less power than any other mill of its capacity. The late-centered burrs insure fine, even grinding. The new feed regulator gives perfect regulation on ear corn as well as small grain. The burrs may be changed in three minutes. This feature is worth the price of the mill to a good many.

Try it 20 days FREE

We would like to have you test a Corn Belt Mill on your farm for 20 days. If it doesn't do its work better than any mill you ever used, send it back at our expense. Learn more about this mill. Write for booklet to-day.

SPARTAN MANUFACTURING CO., DEPT. 61, PONTIAC, ILL.

who will fill out and forward the blank coupon to be found in the corner of the advertisement. As this offer is not made permanently our readers will do well to attend to the matter at once, remembering that there is no charge or obligation of any kind. Just fill out the coupon, put it in an envelope and forward to the Standard Stock Food Company, 1310 Harney St., Omaha, Neb.

Improving Quantity and Quality of Oat Crop

By Prof. M. L. Bowman, Former Professor of Farm Crops, Iowa Agricultural College

AS TO whether or not we have a heavy or light yield of oats this year largely depends on whether or not the oats are filled out well and are of heavy weight; therefore, in those districts where the season is such that the later oat fills well, it is generally found to be a heavier producer than the earlier oat. The real early oats are very generally smaller in size, both in seed and plant.

It is not uncommon to find two fields of oats divided by a barb wire fence; on one side of the fence the oats weighing from thirty-two to forty-four pounds per bushel and from forty to ninety-five bushels to the acre and even more, while on the other side of the barb wire fence the oats weighing from sixteen to twenty pounds to the bushel and from eighteen to twenty-five bushels to the acre. We would, of course, not blame the barb wire fence for this difference and, while the land and the preparation of the seed bed may have had its influence, in most cases it would be found that the character of the seed used was also largely responsible.

It is not generally advisable to send away for all of your seed oats. Every farmer, however, should have his seed patch where he can try two or three different varieties. This is a much safer and better plan.

Enough seed should be secured to plant a seed patch of at least five or ten acres from which seed may be had for planting a larger field the following year. The time is coming when a very large percentage of our farmers will have their seed patch from which they secure their seed for the following season.

Seed Early.

It is a common thing to hear some one complaining because of some unfavorable weather, about the time when the oats are filling, often reducing the yield from 25 to 100 per cent. The weather is something we cannot control, but we can help the matter very materially by putting our oats in early.

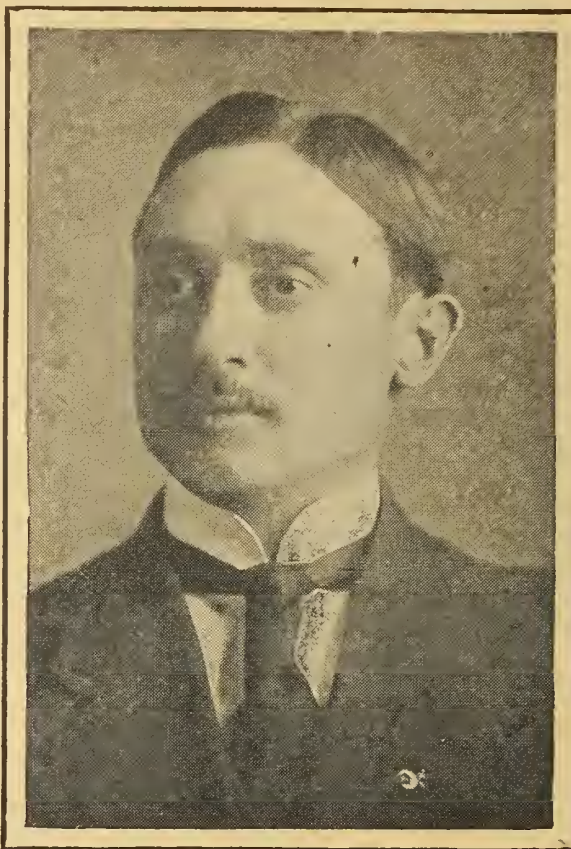
No doubt many can remember of some specific instance when, for example, it warned up the latter part of March sufficiently so that a neighbor got out his disk, disked the ground a couple of times, harrowed it a couple of times and put in his oats. Probably you can remember that it occurred to you that this neighbor was getting a little ambitious and you thought to yourself, "Neighbor Jones will put those oats in again." The weather continued favorable and the oats reached the height of three or four inches when a cold spell came lasting several days, freezing the oats down to the ground; possibly a snow also came and then you were surer than ever that neighbor Jones would have to put those oats in again. Later on it turned warm and you were expecting to see him every day, getting out and disking up his field and replanting his oats; but what happened? The chances are, as you recall this incident, you will remember that when the warm days returned this oat field began to green up again, and when the thrashing machine came around, neighbor Jones was the man who had the heaviest oats and the heaviest yield per acre.

The Value of Fanning and Grading the Seed.

I wonder if every one of my farmer readers owns a fanning mill, or if not, if he fans and grades his seed oats thoroughly before planting them. As a matter of fact, we find that only about one-tenth of our farmers own fanning mills, and that between 50 and 75 per cent of the oats used for seed purposes never see anything but a scoop shovel in the way of a fanning mill, after they have left the thrashing machine, before they are put again in the ground for seed. How well the farmer recognizes the fact that it is unprofitable to go to the corn crib with a scoop shovel and scoop five or six bushels of corn of various sizes of ears and stages of maturity into a hand sheller; then shell the corn and proceed to plant it. The farmer of today is fully realizing the fact that it pays to have the best possible seed that can be secured for the planting of each acre; that it pays to shell and grade the tested corn and calibrate the planter so that three strong, vigorous kernels of corn may be planted in every hill. Yet in the light of these facts how many of us go right to our oat bins with that same scoop shovel and scoop 400 or 500 bushels of oats over the fields by way of an endgate seeder without having previously touched the seed since it left the thrashing machine? We can never hope to increase the quality and quantity of our oat crop until we thoroughly fan and grade our seed. As it is, a very large amount of the seed that is used is either of very light and immature grains, or, on the other hand, contains much of the small pin oats. If the seed oats that are generally used for seed were thoroughly fanned and graded it would be found on an average that not more than fifty to sixty bushels would be fit for seed out of every 100 bushels that are now commonly used.

A Well-Prepared Seed Bed.

This is something that many of our oat fields



PROF. M. L. BOWMAN.

do not receive. Now, personally, you may never have done this, but probably you can remember seeing a neighbor back up to the oat bin with one of these special two-wheeled wagons with an arrangement on the back known as an endgate seeder. When sufficiently close to the window or door of the oat bin the wagon was brought to a



POSSIBILITIES IN OAT GROWING (MAN SIX FEET TALL).

halt and soon filled with oats. Not long after, for miles around, you could hear the well-known buzz of the seeder as it was driven rapidly over the field, putting in anywhere from forty to sixty bushels of oats a day with the cornstalks still standing on the ground, bending to the brisk morning breeze as the seeder "went marching by." As a matter of fact, most of the seed beds for oats have no more preparation than as above stated. The Iowa Experiment Station investigated this matter and out of 400 replies from farmers in various portions of the state over 70 per cent replied in effect that the cornstalk ground received no attention until after oats were sown.

If there is any one thing that is being neglected on all our farms, it is the thorough preparation of the seed bed for all our crops. If a crop is worthy to be grown it is worthy of a well-prepared seed bed. If there is any crop that has been seriously neglected, and especially with reference to the seed bed, it is the oat crop. This crop is deserving of a properly and well-prepared seed bed, and not until it receives such care will we be receiving the quality and quantity of oats which we can justly expect should be produced.

Before ever the seed oats are put into the ground there should have first been prepared a mulch on the surface. By this it is not meant that we should take our stirring plow and plow our ground four or five inches deep. Especially in the corn belt it is realized that on cornstalk ground a heavier yield of oats can be secured by disking than by plowing, but we should have at least a well-prepared mulch of two and one-half inches deep, which will furnish for the young plants an acceptable place for the root development and thus produce plants which will naturally be stronger and more vigorous. It is a well recognized fact that oats should have a compact seed bed. A two and one-half-inch seed bed will be sufficiently compact by the time two or three of our spring rains come.

To properly prepare cornstalk ground for oats we should take a good, sharp disk, lapping the disk half and go over the field twice, and if necessary, the third time, and then it will pay to double harrow before ever the seed oats are put in the ground. It is seldom that a seed bed for oats on cornstalk ground can be properly prepared by going over it with a disk less than twice, lapping the disk half, and occasionally the third time is necessary. Let us see to it that we thoroughly prepare the seed bed before the seed is planted.

Preparing the Seed and Seeding.

In the preceding paragraphs I recommend the use of varieties of oats which are especially adapted to your own conditions, the value of early seeding, the advantages gained by thoroughly fanning and grading the seed and the necessity of properly preparing the seed patch.

We will now deal with the preparing of the seed and seeding with special reference to the treatment for smut and the advantage of drilling the grain. Smutty oats are very common. Frequently you find a field running as high as 10 to 15 per cent smut, while fields running as high as 15 to 30 per cent smut are occasionally reported. The Iowa Experiment Station, in sending out letters of inquiry to many farmers over the state, have sufficient data to say that the farmer, for example, on an average of a forty-acre field, is losing about sixty-four bushels of oats, the loss of which could have been saved at a cost of \$3.

The treatment of smut is very simple. It will be remembered that the oat smut appears at the time when the oats are in bloom, ripening just before the oats are producing millions of little black spores which are blown about the field just at the time when the hulls or glumes of the oat have been pushed open, permitting the spores to lodge next to the meat of the kernel, the hull now closing up holds the spore within. The following spring, when the oat germinates, this little spore also germinates, finding its way within the oat stem where it grows, living upon the plant. When the oat heads out the smut, having pushed upward within the stem, takes possession of the kernel and, instead of the plant producing a kernel of grain, the smut spores are produced and these in turn are blown about by the wind, just at the time when the other plants about the field which are not so affected are in blossom; and this is perpetuated year to year. The treatment, briefly, is as follows: One pound formaldehyde 40 per cent, or formalin, which are synonymous, mixed with forty gallons of water, will treat forty bushels of oats. The oats may be spread out on the barn floor, granary floor, or a tarpaulin or stack cover may be placed on the ground and the oats spread out five or six inches deep. The solution may be applied, during the application of which it is well to take a rake or shovel and stir the oats up so that they may be well saturated. The oats should then be shoveled into a pile and covered up. Gunny sacks, lap robes or horse blankets may be used for this purpose. They must be cov-

ered so that the gas will not escape too rapidly. It is well to treat them in the afternoon or evening and leave them covered during the night. In the morning take off the gunny sacks, lap robes or horse blankets, shovel the oats over several times and it will be found that they may be treated one day and planted the next. It is well, however, to plan on using them the second day. Where three bushels to the acre are to be sown, the machine should be set to put in one-half to three pecks per acre more, as the grain naturally will be swollen a little. The whole process of treatment may be done at an expense not to exceed two and one-half cents per bushel. This operation would save annually millions of bushels of oats.

Now, then we have gone through the steps of preparing the seed bed and selecting and preparing the seed, how shall this seed be put into the ground? Shall it be drilled or broadcasted? One year with another it will be found that it pays to drill your oats. When the oats are sown broadcast they are not covered evenly, they do not come up evenly and they do not ripen evenly, often presenting patchy spots. When oats are drilled they may be more evenly distributed over the field. They come up more evenly, they will ripen more evenly and when used as a nurse crop for clover and timothy, as is frequently the case, the drilling is again preferable.

In the year 1907, which was an unfavorable year for oats, at the Iowa Experiment Station that season, figuring oats at thirty-three and one-third cents per bushel, it was found that less than thirty-five acres of oats would pay for the cost of a drill by the increased number of bushels received from drilling over that sown broadcast. This difference will not be expected every year. The spring of 1907 was cold and backward, but one year with another, the drilling of oats will be found very profitable. This fact has been proven beyond a question of doubt; then, too, a saving may be had from one-half bushel to three pecks in the amount of seeds needed per acre for seeding purposes.

In conclusion, then, let us take a little more pains with this much neglected cereal crop. Let us use the varieties which are best adapted to our conditions. Let us thoroughly fan and grade our seed; treat our seed with formalin to prevent smut; thoroughly prepare our seed bed; drill our grain, and lastly, but all important, let us plant our seed in the spring just as soon as we possibly can, and it will be found that we will succeed in substantially increasing both the quality and quantity of this great cereal crop.

DEHORNING CATTLE.

To the Editor of The Homestead:

I have four different ways of dehorning cattle, which are as follows:

First, when the calf is from four to six days old, clip the hair off around the horn, then take a stick of caustic wrapped in paper at one end and moistened with water, and rub well on the little horns. Lye will act as well if dissolved with a little water and rubbed on with a swab made by tying a little cloth on the end of a stick. Be very careful not to let the lye touch any part except the horn.

Second, when the horns are about an inch long, tie the calf securely, then take a good strong sheep knife and cut the horn off just taking a little hair with the horn.

Third, when the horns are over two inches long I use a clipper, and cut as the handle brings the blade around. Tie the animal to the manger, with a rope around its neck, then tie another rope around neck, make a loop over nose, pull the head to one side of body and then lay the clipper over the horn on the outside as close to the head as possible and cut off the horn. Try to get a little hair all around the horn and you can then be sure the horn will never grow again and make a bad looking head. There is a little vein at the lower edge of the horn next to the ear, and if this is cut and bleeds very badly, hold finger on it a little while. If this does not stop it, take up the vein and tie it up or sear with a hot iron.

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After the horns are off there is generally a big hole left on each side of the head. These I fill up with cotton batting. The blood runs over this and makes a scab, but the cotton should be left in as the wound will heal from the inside and throw out the cotton. The cotton keeps out the cold wind and all chaff and dirt from the straw pile.

Fourth, in old cows where the horns are like bone, I prefer the saw as there is no danger of crushing as sometimes happens with the clipper. After dehorning, treat in the same way as in the third method.

I have dehorned goats with good results by sawing, and think they could be dehorned by the first or second methods when young. I dehorn any time of the year except in hot weather, and have done it then in cases of necessity, but would advise putting carbolic acid water or turpentine over the sores to keep flies away.

B. G. Mahon.

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THE GARDEN.

To the Editor of *The Homestead*:

God planted the first garden, so we have a very good example for thinking a garden necessary for our good. One of the pleasures of a garden is the bright-leaved catalogs that come like spring birds to brighten the cold days of February and March. Then comes a jolly time of poring over their pages and trying to decide what one must have and what must be given up.

When we moved to our present home there was a large orchard surrounding the house on all sides, but no garden. I found a spot at the east side of the orchard where two apple trees were missing, and I said we would have our garden there. My husband and son laughed at the idea of having a garden on that poor and rocky soil. But I said I would remove the rocks and make the soil rich. That was eight years ago. Occasionally I dig up a stone the size of my fist, but the soil is rich now and I can never tell the pleasure and

profit we have had from that piece of ground.

I planted four rambler roses along the north side and they have been a thing of beauty every year. I also planted a few sage plants along the north, and along the sunny northeast corner I planted my asparagus bed. Along the west fence is a row of peonies and lilies, along the south side, my strawberry bed, and I cannot tell how many delicious shortcakes nor how many dozen quarts of fruit I have put up from that strawberry bed. On the remaining ground I raise onions, tomatoes, lettuce, peas, beans and a few beets. I take lots of comfort in my garden and the children often ask, jokingly: "Well, how often has mother been out to see her garden today?" There is much more I would like to say about the garden, but will close, hoping that we may all enjoy the blessings of good gardens the coming summer and much will depend on our own efforts whether we do or not.

Nemaha Co., Kan. Mrs. Ira Bailey.

Pruning the Shade Tree

By W. G. Baxter

SHADE trees in general need very little pruning, shade trees in particular may be made to take on grace and beauty, or become unsightly or even grotesque according to the whims of the gardener. Natural beauty designed for a certain purpose, should be the object in pruning shade trees.

Each species has a natural gracefulness of form that makes it appear at its best. Sometimes the tree does not attain this naturalness, because it has become deformed through handling, or has been crushed out of shape while young by the shade of some larger tree. By clipping off the offending branches that are growing too far out on one side, or are hanging down in tufts, we gradually restore the natural appearance of the tree. The main purpose of the shade tree is to please the eye, and for this reason we must be just as careful with it as the artist is with his finishing touches on a picture.

The position of the tree on the lawn will largely determine the extent of our pruning. If it is located in the background to serve as a windbreak, or to form a screen for concealing some unsightly buildings at the rear of the house, it is probably best not to touch it at all. All the branches are required to form the screen, and if the trees are closely banked together, the individual form of each is not noticeable—the effect of the clump is the important thing in this kind of pruning.

When a tree stands apart in its proper place on the lawn, then its beauty or its awkwardness is most noticeable. If the lawn is a large one and the tree is somewhat remote from the house the lower branches may be allowed to extend to the ground and form a dense crown—beautiful because of its compact foliage. The only pruning necessary will be to keep the branches on both sides of the tree of an equal length.

If it is the good family shade tree itself that we are considering, then our object will be simply to secure shade. Pruning in this case will be confined to cutting out the lower limbs so that one can walk beneath them, and to make room for the hammock. Shade trees are very liable to develop forks which are sure to split down with the weight of the limbs in old age. When two of the main branches begin to form a dangerous crotch, one should be cut out before the split begins.

Young shade trees should be pruned back quite heavily before they are set out. If the crown is large, the damaged roots will probably be unable to supply enough nourishment for the

large leaf surface; as a result, several of the large limbs are liable to die the first season after transplanting. In many cases the whole tree dies from this cause. To prevent this the ends of the ragged roots are cut smooth, and if one-half of the roots have been destroyed in moving the tree, then one-half of the top should be pruned off to establish the balance.

The shade tree should be carefully watched for several years after it is set out, pruning it carefully into the form that one wishes to produce. If limbs grow faster on one side than on the other, clip off the ends of the branches. If a branch tends to become long and hanging, either cut it back, or remove it entirely.

A shade tree requires more care in pruning than any other form of tree. A branch should never be cut off unless one is sure that it will improve the appearance or usefulness of the



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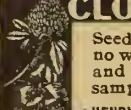
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Who is going to name Mr. Salzer's latest discovery in Seed Corn? Who wants \$500 in gold in exchange for a thought—just a word or two that the decided superiority of this "Nameless" corn?

So little of this strange breed of corn is now in existence that it is not for sale at any price. Orders cannot be filled till 1911. Meanwhile Mr. Salzer is bending every effort toward getting a good name for this extraordinary corn. Only samples can be had.

Tell us now—if you should unexpectedly grow the most valuable of all varieties of seed corn this year, what would you name it? It may be worth many dollars to us. Remember, neither you nor we are to decide. Hon. J. J. Esch, Congressman of Wisconsin, the judges. The name you have in mind may strike the official judges just right. The contest will run only a short time, so enter at once. Win the big prize. You have much to gain by acting on this suggestion immediately. Costs not a penny to enter the contest.

Prof. R. A. Moore, of Agricultural College, University of Wisconsin; Hon. Robert Calvert, U. S. Customs, LaCrosse, are the judges. The name you have in mind may strike the official judges just right. The contest will run only a short time, so enter at once. Win the big prize. You have much to gain by acting on this suggestion immediately. Costs not a penny to enter the contest.

SALZER'S RELIABLE SEED

Plant Salzer's Seed and reap a harvest of gold. Salzer's are more profitable and reliable than other kinds. 35 years on the market. Have helped to make thousands of farmers rich and have yet to prove a source of disappointment to anybody. They never fail; sprout quickly, grow rapidly, and produce heavily. It is a positive fact that Salzer's pedigree oats, barley, wheat, potatoes, clovers and vegetable seeds will increase your yields from 25 to 100%. This has been proven thousands of times by our customers, for Salzer's seeds never fail.

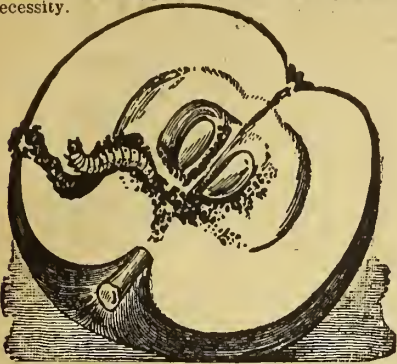
On pages 101-102 of catalog will be found full particulars regarding the most remarkable breed of oats ever sown—"Rejuvenated White Bonanza." Write to-night for the 1910 Salzer Seed, Plant and Tool Catalog. Enclose 4c postage if you want a sample of "Nameless" Corn. Decide now to investigate Salzer Seeds and to try for the big \$500 prize—contest closes soon.

John A. Salzer Seed Co.
124 S. 8th St., La Crosse, Wis.

\$500 FOR A CORN NAME.

SPRAYING FRUIT TREES.

The question of spraying fruit trees to prevent the depredations of insect pests and fungous diseases is no longer an experiment, but a necessity.



Our readers will do well to write Wm. Stahl Sprayer Co., Box 103-B, Quincy, Ill., and get their catalogue describing twenty-one styles of Spraying Outfits and full treatise on spraying the different fruit and vegetable crops, which contains much valuable information, and may be had free.

GOOD SEEDS

BEST IN THE WORLD
PRICES BELOW ALL OTHERS

I give a lot of new sorts for trial with every order I fill. A Grand Big Catalog FREE illustrated with over 700 engravings of vegetables and flowers. Send yours and your neighbors' addresses.
R. H. SHUMWAY, Rockford, Illinois

GARDEN SEEDS FREE!

FIVE PACKETS FOR TRIAL

We have arranged to give to each new customer absolutely free five regular sized packets of our Superior Guaranteed Garden Seed, your selection. Write today for 25c certificate, which entitles you to these free packets and our big 100-page illustrated catalog, so you may make your selection and become acquainted with our seeds. If you give our seeds a trial we are sure you will become one of our pleased customers. Write today for our big 1910 100-page illustrated seed catalog. Address
A. A. BERRYSEED CO., Box 203 Clarinda, Ia.

Hoyt's Evergreens

Grow 30 feet in ten years, 60 feet in 25 years. Cultivated "rooty" stock that has the growing habit. Our methods are correct, as shown by 40 years' success. Order direct from proprietors. Scotch Pine, 18 to 24 in. \$10 per 100, 2 to 3 ft., \$15 Norway Spruce, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25 White Pine, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25 Arborvitae, 12 to 18 in. \$10 per 100, 18 to 24 in. \$15 Other sorts and sizes; also carload lots very cheap. Stock grown at Scotch Grove, Jones Co., Ia. Address Hoyt Bros., Office at Monticello, Ia.

WHITE PEARL SEED CORN

MEDIUM sized, splendid yielder, carefully bred and selected for 30 years. Never fails to mature. Will guarantee to grow. Subject to ten days' test for approval. Price, \$2.75 per bushel. Good grain sack included with order for two bushels or over. Do not go South for seed.

Reference—First National Bank of Steward.
L. D. HEMENWAY, Steward, Illinois.

YELLOW ROSE

THE early corn. Official record, matured in 112 days. Yield, 94 bushels. Test, 62 pounds shelled. Deep grain; small cob. We have also Gold Mine, Silver Mine, Leaning, Yellow Dent, Wisconsin White and many others. Our corn sound. Tests 95%. Prices right. We have every kind of seeds. Illustrated seed book FREE. Write today.

J. B. Armstrong & Son, Shenandoah, Iowa.

TREES THAT GROW

Apple 6c, Peach 5c, Plum 12c, Cherry 15c. Best quality, good bearers, grafted stock, not seedlings. Concord Grapes \$2.50 per 100. Forest Tree Seedlings \$1.00 per 100 up. We pay the freight.

GERMAN NURSERIES & SEED HOUSE
CARL BONDREGER, Pres.
Complete line of Vegetable, Flower and Farm Seeds, our large illustrated catalog free. Also Free Sample packet of "New Corns" Tomato, the best of all tomatoes. German Nurseries Box 14, Beatrice, Neb.

CLOVER

New Crop Iowa Crown Recleaned TESTED

and Inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc., at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free. **IOWA SEED COMPANY, Dept. D1 DES MOINES, IOWA.**

SEEDS FREE--8 PACKETS

To everyone sending 10c. for a pkt. of our Prize-Inker, the best tree tomato grown, we will send free one pkt. each of the following: Beet, Carrot, Cucumber, Lettuce, Onion, Radish and Glorious Mixed Flower Seeds. This 10c. refunded with first 25c. order. Send today before this offer is withdrawn. Our illustrated catalog of Garden, Farm and Flower Seeds is sent free.
J. W. Jung Seed Co., Dept. 15, Randolph, Wis.

Pure Kherson Oats

GUARANTEED. Best by test. Treated for smut. Does not lodge or rust. \$1 per bushel, single bushel lots; 5c cents, 10-bushel lots or over. BAGS FREE. **Aye Bros., Second St., Blair, Neb.**

tree. It is far better to leave the tree alone entirely than to chop off its main branches, causing an injury to the tree and to the appearance of the grounds that can never be restored.

GROWING TOMATOES SUCCESSFULLY.

The tomato combines the best connecting link we have between our fruit trees and vegetables, combining, as it does, the productiveness of a vegetable and the finest table qualities of fruit.

Fifty years ago it was hardly known, while today it is one of the most popular vegetables and forms one of our standard canned goods.

In no other vegetable have greater improvements been made than in tomatoes, and this being the case they will again quickly revert to the original type if great care is not used in selecting the seed, so one of the first steps to success is to get the very best seed. Repeated experiments have proved that tomatoes grown from northern grown seed will not contain near as much seed as that grown from southern raised seed, and who does not want a tomato as nearly seedless as possible?

Tomatoes are a heat-loving plant, and although a cool temperature of about 34 degrees will not kill them, it will check their growth so that they will not do their best.

As early fruits are very desirable, especially if grown for market, the seed should be started in a box indoors or in a hotbed about the middle of March. Cover the seed about one-fourth inch deep and if the temperature is kept around 65 degrees and the soil moist the plants will appear in about ten days. When the third pair of leaves appears they should be transplanted into other boxes or beds of rich soil to stand four inches apart each way so as to give them a chance to grow strong and stocky, also do not forget to give them fresh air whenever the weather will permit, otherwise your plants will be weak and spindling, and the advantage of the early start will have been in vain.

If properly grown these plants should be from six to eight inches tall and about ready to blossom when it is time to set them out into the garden, about June 1st, in this latitude.

Harden your plants off before setting them out in the garden; this can be done by setting them out of doors or taking off the sash the last few days, also give your plants a thorough soaking a few hours before taking them up. You can then lift the plants with considerable soil adhering to the roots and they will not suffer much check from transplanting. For main crop the seed should be started about the first week in April and when the second pair of leaves is well developed they should be transplanted to stand four inches apart each way.

Where earliness is the main factor a rich, sandy soil is to be preferred, but for general purposes almost any soil will raise tomatoes.

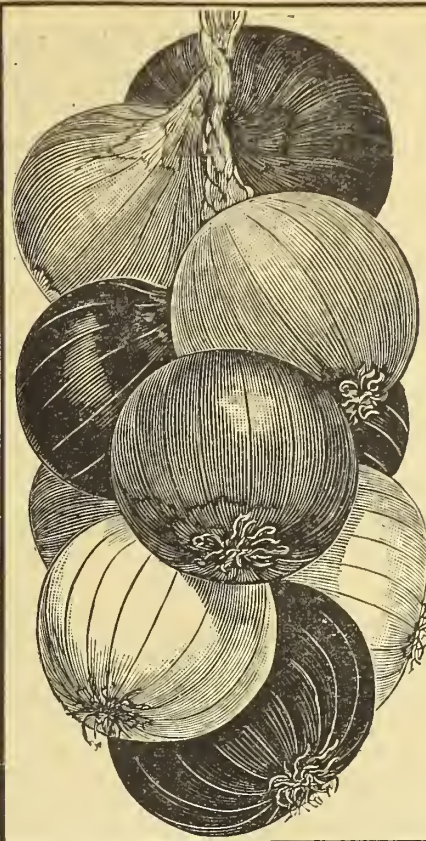
An overrich soil will cause an overgrowth of vines, while one not rich enough will not grow enough vines, so a soil between these two limits will be about right. Set your plants three to four feet apart each way, depending on the variety and the nature of the soil. If possible do the transplanting on a rainy day, otherwise water the plants until well started.

When the plants have taken roots start to hoe or cultivate, thereby encouraging as quick a growth as possible, as one of the secrets in growing tomatoes is to keep them steadily growing from the time they come up until maturity.

When the plants are well along in blossom cut or pinch off all the side shoots allowing only three or four of the main branches to remain, this will make them ripen much earlier and will also increase their productiveness.

Staking or providing a trellis for the plants is desirable, as it will keep the fruits clean and will also cause them to ripen a little earlier, but most people do not have enough time to attend to this.

After the plants become so large that cultivation is no longer possible, cover the ground with straw, marsh hay or fresh-cut grass from the lawn. During dry weather this will help hold



MAULE'S SEEDS

ONCE GROWN ALWAYS GROWN

Is one reason why I can so prominently advertise

Your Money Back if Not Satisfied

Send me your address on a postal, and by return mail I will send you my New Seed Book for 1910, a Catalogue of 192 large pages filled to overflowing with everything good known to the best gardeners in America. Whether you intend to plant 10 acres of onions, or only a small packet of pansy seed, you should have this book in hand before ordering elsewhere.

Wm. Henry Maule

1752 Filbert St. Philadelphia, Pa.



12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruiters, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS of HARDY "BLIZZARD BELT" fruits by next mail. Address
THE GARDNER NURSERY COMPANY, Box 202, Osage, Iowa.

Tested Seed Corn

Guaranteed To Test 94 per cent or Better

I sell it subject to your approval, and ship it ear or shelled. Price \$2.50 to \$3.00 per bu. All the leading varieties, early, medium, and late. Specimen grains for testing, free for the asking. Write for them and see for yourself.

Box 25 **HENRY FIELD SEED CO., Shenandoah, Iowa.**



SEED CORN 153 BU. ACRE

Diamond Joe's Big White—A strictly new variety. None like it. It is the Earliest and Best Big White Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from thoroughbred inherited stock; every stalk bears one or more good ears, because scientifically handled, thoroughly dried and properly cured and had the most rigid examination. Big Seed Catalog FREE. It tells about all best farm, grass, garden and flower seeds grown. Write for it today.
Address, **RATEKIN'S SEED HOUSE, Shenandoah, Iowa.**

PETTY BROS.' PURE BRED SEED CORN

Petty's Early Dent—Yellow
Petty's Eclipse—Yellow
Clay County White
RAISED ON OUR OWN FARMS



10,000 BUSHELS

hand picked, graded and tested from 25,000 bushels, yielding 75 to 90 bushels per acre this year. Tests 98 to 100 per cent.

High Grade \$2 per bushel
Extra Select \$2.75
Crated Ears \$4

PETTY BROS., Box 4, Liberty, Mo.

Clarinda Nursery

seedlings; all buds and scions from twenty-five of the best orchards here; where seven to fifteen acres made the owner more clear money than the rest of the 80 or 160 acres; if you want to plant trees or berry plants of quality, it will pay you to write for catalog or come five hundred miles to see my trees before buying. Address
LEWIS ANNAN, CLARINDA, IOWA.

PURE-BRED, TESTED SEEDS

EVERY lot of seed that we put out is subjected to a vigorous germination test. Write for our catalog, explaining our Breeding and Testing Systems and WHY OUR SEEDS WILL GROW. Ames experts select and test our seeds.
THE SUMMERS SEED HOUSE, Malvern, Iowa.

CLOVER

THE ADAMS SEED COMPANY, Box 1, DECORAH, IOWA.

"PURITY BRAND" is a guaranty of quality. Blue, Plump, Pure; the BEST that money can buy; carefully cleaned and TESTED AT AMES. There is very little clover in the country equal to our NORTHERN GROWN seed. Also TIMOTHY, ALSIKE, MIXED TIMOTHY and ALSIKE and other Field, Grass and Garden Seeds. Catalog Free.

MORE CORN THAN IOWA

Minnesota raised more Corn per acre last year than Iowa, the famous Corn & Hog State. Why? Because Minn. Corn is impregnated with vigor, vitality and productiveness of our cold northern climate and stands more hardships than other corn; further more thousands of bus. of our famous Fairbault grown Seed Corn are planted here every year, which helped to score such high average. Such varieties as Golden Jewel, Silver Jewel, Rice Co. Mammoth, etc. we have bred up for perfectness of type, early maturity and freedom from barrenness and are wonderful yielders. Produce good sized ears and yield from 85 to 125 bus. per acre. No matter where you are located plant our Fairbault grown Corn and produce a big crop. We grow also the earliest kinds for the extreme North, the N. D. Agr. College Golden Dent, 60 day Flint, etc.

On our Fairbault Seed Farms we grow also the best kinds of Seed Oats, Wheat, Barley, etc. from pedigreed Seed Stock.

10 samples of the best kinds of Seed Corn & Seed Grain for... Nursery stock at wholesale prices. Write for large illustrated seed book. **Farmer Seed & Nursery Co.,** Successors to FARMER SEED CO.,

336 8th Avenue,
Fairbault,
Minn.

Beats Burbank a Mile
"Make \$2.00 grow
where \$1.00 grew before"
How? Good Seed!
The Hawkeye Grader
does the business!
send for catalogue
and prices today
The Maytag Co.
Newton Iowa
300 North St.



"MORE POTATOES"
From ground planted secured by use of the KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for catalog, price and full description.
A. J. PLATT, Mfr.,
Sterling, Ill.

GOOD POSITIONS OPEN

THE business of the Brotherhood of American Yeomen is growing by leaps and bounds. It is the most popular fraternal insurance society in the United States. We need more deputies to institute new lodges. We admit men and women; have over 116,000 members and assets aggregating \$1,300,000.00. It's a good Society to work for and it's a good Society to belong to. If you can devote several months to the work of getting new members write to

WILLIAM KOCH, Grand Foreman,
Yeomen Building Des Moines, Iowa.

EODRBRUCKER The high protein **BARLEY**

FIRST premium at Omaha in 1909; first, second, third and fourth in 1909. Without doubt the best barley in America. Get our circular, which tells you all about this good barley. We also grow Swedish Select Oats. Address

Thompson Bros., R. 3, Wadena, Iowa

CLOVER

Now is the Time to Buy.

Seed crop almost a failure. Prices bound to be higher later. Buy before advance. Write today for special low prices and free samples of our Pure New Crop Re-cleaned, Tested Clover Seed. Have Timothy and all grass seed. It is to your interest to get our prices and samples at once. 1910 catalog free.

A. A. Berry Seed Co., Box 103, Clarinda, Iowa

SUNFLOWER BRAND ALFALFA SEED

absolutely the best, Kansas Grown, our specialty. Our Booklet, "Alfalfa" is full of general information valuable to every farmer—its Free—also our Beautiful 1910 catalog.

THE BARTELDES SEED CO.
812 Massachusetts St. Lawrence, Kas.

EVERGREENS

200 Norway Spruce, 3 to 6 in., \$1; 100 Arbor Vitae, 3 to 6 in., \$1. Prepaid by mail. Many other \$1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price list free. HAWARD NURSERY, Box W, HAWARD, ILL.

Strawberry Plants Senator Dunlap, 75 cents per 100, prepaid. Other varieties; circular free. C. J. MACKAY, West Liberty, Iowa.

the moisture and if it should be rainy it will keep the fruits much cleaner than if they were lying on the bare ground. Rot at the blossom end is generally caused by a lack of moisture and if a mulch is applied as directed above it will help check it.

Just before having frosts gather all of the large fruits that have commenced to change color, wrap them in paper and store in a cool, dry cellar. By this method the writer has had ripe tomatoes for his table in December that were of as fine quality as if just picked from the vines.

GARDEN BEANS.

To the Editor of The Homestead:

A great many people seem to think that when land is too poor to raise anything else it may be planted to beans. This is a mistake, for beans in order to produce a satisfactory crop require a rich soil just as much as any other crop.

Beans will come into bearing a little earlier on sandy soil, but the pods will be of finer quality and borne in greater profusion on heavy soil.

Beans are very tender and should not be planted before the ground is quite warm and danger from frost is past. If the soil is not very fertile a liberal dressing of rotted manure should be applied and the ground deeply plowed. The ground may be plowed as early in the spring as the soil can be worked into fine, loose condition, you can then harrow or cultivate it several times before planting the beans and thus kill most of the weeds that are sure to be in the ground. This will save much work later in the season, especially where beans are grown by the acre.

In the garden, plant the beans in rows eighteen inches apart, either having the single plants every six inches or in hills about fifteen inches apart, the writer prefers planting in hills, as you can then hoe them more conveniently. For field culture the rows should be about thirty inches apart so as to permit horse cultivation.

Give frequent shallow cultivations until the blossoms appear, after that cultivation should cease, as the flowers and young pods are very easily knocked off. It is useless to expect a good crop of beans from soil that has been so poorly prepared as to need deep cultivation after planting. Never work among your beans while the plants are wet from rain or dew, as it will cause them to rust and may ruin your whole crop.

Picking the pods as fast as they are large enough will greatly prolong the bearing season. Successional plantings should be made every two weeks until the middle of July to insure a constant supply of fresh, tender pods.

The beans most commonly grown in the home garden are the low or bush form, these have no tendency to grow runners and may be planted quite close.

These are generally grown for snap shorts, i. e., the pods are used while young and tender. During recent years great improvements have been made in these beans, varieties have been produced which are entirely free from strings and tough fiber and are in every way superior to the old varieties.

J. W. Jung.

A New Tomato.

The Iowa Seed Company, of Des Moines, Iowa, are taking special pains to introduce the Ruby Nugget tomato, an illustration of which appears in connection with this article. The Ruby Nugget is developed from the Golden Nugget, a popular English variety of



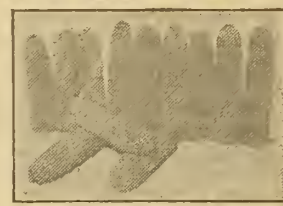
tomato. The originator grew the Golden Nugget in its purity for a number of years. The Ruby Nugget started from a single plant of the Golden Nug-

FREE We Will Send Upon Application to Every Farmer **FREE**
PROF. THOMAS SHAW'S Directions for Planting
Garden, Flower and Field Seeds in our Catalogue of Home Grown Seed
NORTHERN SEED CO., Seed Growers. 16th St., Valley City, N. D.

SEED CORN

We are the exclusive agents for H. J. Goddard's "SILVER KING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern grown seed corn. (Clovers, timothy, alfalfa, mixed timothy and alfalfa, garden seeds, etc. Cat. free. The Adams Seed Co., Box 1, Decorah, Ia.

SEED CORN--THE VERY BEST



HERE is your chance to get it. DO YOU WANT IT? All the leading varieties, either in the ear or shelled and graded. All carefully selected early in the fall. Raised for seed and thoroughly dried. Test it as you please for 10 days; if not satisfactory, return it and get your money back. If interested, ask for my 1910 catalog sent free upon request. DO IT NOW. **H. Z. O'HAIR, Prop.,** GRAND PRAIRIE SEED FARM, BUSHTON, ILL.

GRILL THE SEED CORN MAN ELK POINT, S. DAKOTA HAS GOOD NEWS FOR IOWA FARMERS

I OFFER for sale as long as it lasts: 3,000 bushels 1908 Reid's Early Yellow Dent; fancy ear seed in crates, \$5 per bushel, shelled and graded, \$4 per bushel. 2,000 bushels 1908 Iowa Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 5,000 bushels 1908 Dakota Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 1,000 bushels Early Yellow Murdock; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. This corn has been carefully saved from the year before, in well-aired and ventilated cribs, and I positively guarantee every bushel to test 90% or better, and I believe it will test over 95%. All my corn is raised within 15 miles of Elk Point, South Dakota, and is ten days to two weeks earlier than southern-grown corn of the same varieties. My Guarantee: Every bushel good or every bushel back. I have good 1909 seed corn also. Write today for circular and samples.

L. N. GRILL SEED COMPANY, ELK POINT, SOUTH DAKOTA.

FARMERS!

WE have a large stock of all the standard varieties of field corn, and can make prompt shipment. Our corn is all of high germination; price \$2 per bu. and upwards, cash with order. For particulars, write us. The Waldron Seed Co., Waterloo, Ia.

get which differed from the parent plant in that the fruit was a bright red and a trifle larger than the Golden Nugget. It proved to be a good grower as is shown by the illustration giving the comparative growth of the two varieties. Those who are interested in tomatoes may procure a trial packet of about twenty-five seeds of the Ruby Nugget free of charge by sending a postal card request to the Iowa Seed Company, Dept. D 1, Des Moines, Iowa, taking particular pains to mention this paper. If not otherwise advised a copy of the large illustrated catalog for 1910 will also be forwarded without charge. See page 16.

Seed Corn Certainty.

It is a fact of common knowledge that more than 25 per cent of the 1909 corn crop of Iowa and portions of Illinois remained on the ground during the entire winter. It goes without saying that the germinating power of this corn has been either destroyed or so greatly injured as to render it unfit for use as seed. It therefore stands the farmer in hand to look about for seed of known germinating power. For such we refer our readers to the advertisement of the Farmer Seed & Nursery Co., of Fairbault, Minn., which appears on this page. This firm have for nearly twenty years been producing seed on their farms and have bred the corn up with a special aim toward early maturity and perfection of type. They raise and sell Golden Jewel, Silver Jewel and Rice County Mammoth. Last year they sold thousands of bushels of these varieties to Minnesota farmers and the government statistics indicate that Minnesota produced more corn per acre last year than did Iowa. For prices or more detailed descriptions of these varieties write to the Farmer Seed & Nursery Co., 336 8th Ave., Fairbault, Minn., asking for their 1910 catalog.

Superior Seed Corn.

Mr. F. Bunker, of Kilbourn, Wis., is offering good, fire-dried, tested Yellow Dent seed corn at reasonable prices. Samples of the corn will be sent for ten cents. With reference to this corn Mr. Bunker writes, saying: "We have grown this one breed of corn exclusively on our farm in central Wisconsin for years. It often averages seventy bushels per acre and always ripens. We have a good supply of seed from the 1908 crop that matured seventy-five bushels per acre. This was thoroughly fire dried for sixty days and is superior in strength to seed corn of 1909. Our present test shows above 95 per cent strong germination in every case." See page 19.

1908 Seed Corn.

The L. N. Grill Seed Co., of Elk Point, S. D., have good news for corn growers. They have 3,000 bushels 1908 Reid's Early Yellow Dent, 2,000 bushels 1908 Iowa Gold Mine, 5,000 bushels 1908 Dakota Gold Mine and 1,000 bushels 1908 Early Yellow Murdock. This is all guaranteed to germinate 90 per cent or better. See advertisement on this page for prices.

Nursery Bargains.

See the advertisement of West Side Nursery, Box 12, Postville, Iowa, which appears on this page, for great nursery bargains.

My Trees are Known by Their Fruits

They are of the right kinds; as a practical orchardist I know which fruits are worth growing and which are not. All have full vigor and health; my methods and the soil and climate here take care of that. I have been in business 23 years; and my trees are in bearing all through the Central West. My new catalogue has letters from customers who have bought of me every year. I sell direct; no agents. Buy of me and pay yourself their commission! Write today for catalogue and I'll send you my preferred-list card—entitling you to special discounts for a year, on all you buy of me.

IRVIN INGELS, Prop., Home Nursery
Station 34, La Fayette, Ill.

The Same Persons Have Bought
of Me Each Year for 23 Years

SEED CORN

HIGH yielding, prize winning and sure to grow. Robert's Improved Reid's Yellow Dent won second prize at the International Corn Show at Omaha, 1909. Write today for free corn book explaining how it was raised, full particulars, prices, etc., of seed corn that was the largest yielding yellow corn in the world's class last year. Other varieties also. **E. D. Roberts, R. 1, Red Oak, Ia.**

CORN IS MONEY

YOU can't make it faster than by sorting your seed with Delany's Seed Corn Sorter. Grades perfectly for edge drop or other planters, and better by test than high-priced graders. Price, \$2 and \$4. Write for Circular C to J. F. Delany, Colona, Ill.

SEED CORN Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped subject to your own test. Send for free catalog. **L. C. Brown, LaGrange, Cook County, Ill.**

SEED CORN.

FOR corn that will mature, plant my northern Ill. Grown Reid's Yellow Dent, and Griffith's Early Yellow Dent. Sold on approval. Satisfaction Guaranteed. Write for circular. **W. G. Griffith, R. 2, McNabb, Putnam Co., Ill.**

CLOVER SEED

NICE re-cleaned clover and 1909 crop, at \$9 per bu. Re-cleaned timothy, 1909 crop, at \$1.65 per bu. sacks, extra 25c. Reference—First National Bank. Address **MAHER & SON, PRESTON, IOWA.**

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelior. Send for my Free Illustrated Strawberry Book. **THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.**

Swedish Select Oats

YIELDED on Clover Lawn Farm 53 bushels to the acre and all stood up well. Price re-cleaned, graded and put up in new two-bushel grain bags per bushel 75 cents. Sample free. **JOHN PULS - HARTFORD, WISCONSIN.**

The PLATTE VALLEY RED CEDARS

GROWN from seed, have no equal for wind-breaks; hardy and vigorous anywhere. Write for price list. **L. E. GARLAND, AFTON, IOWA.** Successor to Garland & Fowler.

Mammoth Clover Seed A limited amount for sale this year. Grown on my own farm in Linn Co., Iowa; new crop; re-cleaned and inspected by Pure Food Commissioner. Guaranteed to be genuine Mammoth Seed. Price now, \$10 per bu., including new bags, when two or more bu. are taken. **M. Taylor, R. 1, Road, Center Point, Ia.**

GREAT BARGAINS White Pine and Arbor Vitae, 2 to 3 feet, \$10 per 100; a 1/2 acre orchard for \$16. Send postal for catalog and other bargains. Address **West Side Nursery, B 12, Postville, Iowa.**

IOWA GOOD ROADS CONVENTION.

The governor of Iowa has called a good roads convention which will be held in the city of Des Moines on Tuesday and Wednesday, March 8th and 9th. The following program was prepared by Governor Carroll, in co-operation with the good roads committee of the Des Moines Commercial Club and the state highway commission:

TUESDAY, MARCH 8TH.

1:30 p. m.—Call to order by Gov. B. F. Carroll; music by Woodman quartet; temporary chairman's address; appointment of committees, on credentials, resolutions; "Improvement of Iowa Roads, With Materials and Means of Hand," Prof. A. Marston, dean of division of engineering, Iowa State College; "Road Drainage," Henry Haag, Jefferson; "Fixed Per Cent of the Township Levy for Draining," John W. Foster, Guthrie Center; "Permanent Roads," Harvey Ingham, Des Moines; "Necessity of Trained Supervision," Sen. Frederic Larrabee, Fort Dodge. 7:30 p. m.—Joint meeting of Iowa thrasherman and good roads delegates; music, T. Fred Henry's band; call to order, Pres. J. C. Gunn; invocation, Rev. Harry Keats, Friends' Church; address, President Gunn; address of welcome, Gov. B. F. Carroll; response, J. C. Cottrell, president Iowa Thrashermen's Association; music, "America," address, Lafayette Young, Sr.; address, "What to Do Now," H. C. Wallace; address, "The Thrashermen and the Roads," W. H. Trueblood; address, C. F. Curtiss, Ames.

WEDNESDAY, MARCH 9TH.

9:00 a. m.—"Main Road Approaches in Cities and Towns and the Use of the County Road Fund," Col. W. F. Baker, Council Bluffs; "Organized Road Draining," Wm. Dawson, Parkersburg; "Good Culverts an Essential," George F. Johnson, Hudson; "The Land Owner's Interest," H. G. McMillan, Sioux City. 1:30 p. m.—"Business System as Applied to Road Improvement," James Atkinson, Des Moines; "The County Engineer," Hon. F. A. O'Connor, New Hampton; "Some Iowa Object Lessons," T. H. MacDonald; "Organization of Road Building Under County Supervision," W. R. Lewis, Montezuma; report of committees. 7:30 p. m.—Open meeting of Thrashermen's Association at which Attorney-General Byers will be the principal speaker.

Delegates already have been appointed by practically every county in the state and it is expected that this will be one of the most important road conventions ever held in Iowa. The Homestead will give a full report of this meeting in its March 17th issue.

A northern man, just returning from a visit in the South, says: "The most interesting part of southern farming is the growing of gourds. Gourds, down there, serve for pails, powder-horns, pipe trays, pocket flasks, salt cruets, bird houses, nursing bottles, anything The southern farmers train the growing gourds. Here a little fellow grows round and flat, pressed under a board. He makes a good powder-horn. There a gourd has two handles, and these handles, while very young and tender, were knotted. The result will be a

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$5 per acre; only one-fourth cash, 40 years of balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands, J. J. Snyder, School Land Locator, 505 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15¢ per line. Send 10¢ in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

IF YOU WANT Dakota land, small or large tracts, improved or unimproved. Write for my booklet of bargains, the best in the state. You can't help but find what you want in it. This advertisement will not appear again; save it. F. M. Rourke, Lisbon, North Dakota.

FOR SALE—Improved half section good land in Brown County, South Dakota, only eight miles from good town; close to school. Price, \$27.50 per acre, half cash, balance 6%. This is a snap. Address W. L. Cochran, owner, Aberdeen, South Dakota.

TEXAS FARMS for sale. In unity there is strength. Pool your money and purchase large tract farm land in East Texas, at bottom prices; \$8 per acre. Good for corn, oats, cotton and truck in the rain belt. Dr. Wade, Warsaw, Minnesota.

FULL SECTION, Kiddle County, North Dakota; lies well; good soil; improved farms on two sides; \$11.50 per acre; worth \$16; easy terms. Kane-Kober Company, St. Paul, Minnesota.

SEND US your property; we will put you in touch with 500 parties wanting to exchange. Western Exchange, Suite 311 and 312, Scott Thompson Bldg., Oklahoma City, Oklahoma.

STOP RENTING—Buy a farm in Stanley or Hand County, South Dakota. Prices, \$15 to \$35 per acre. Jay P. Morrill, Palace Building, Minneapolis, Minnesota.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

IF YOU want good and cheap farm lands, write us. We have them. Walter A. Evans & Company, Kiowa and Prior, Oklahoma.

FOR SALE—Two hundred forty acres; also for rent, good farm; all near Austin, Minnesota. E. G. Sachse, Cherokee, Iowa.

fantastic and serviceable water jar. A gourd confined between two laths is growing long and narrow—it will be a vase for flowers. Housewives have small gourds for salt and pepper, and the enormous fellows for corn meal, flour, lard and so forth hold twenty quarts apiece. Gourds, properly shaped in growth, make pretty good fiddles."

Rough on Rats in Outbuildings.

In setting Rough on Rats in outbuildings after mixing it well with any food decided upon, separate into small bits, place on several pieces of boards, and put these here and there under the floors. Close up all openings large enough for Dogs, Cats or Chickens to enter, but leave some small openings for Rats to get in and out. One 25c. box of Rough on Rats, being all poison, will make enough mixture to clear out in one or two nights' setting, hundreds of Rats and Mice. 15c., 25c., 75c., at druggists. E. S. Wells, Jersey City, N. J.

REAL ESTATE.

320 ACRES, Lake County, South Dakota. Seven miles from Madison, county seat, and Normal school. All under plow; rich black loam; small buildings; adjoining farms, \$75 to \$90. Price \$56; \$6,350 will handle this; balance five years; optional payments; 6%. Call, or address owner, Z. A. Poole, Cherokee, Iowa.

FREE government farms. Our official 112 page book, "Vacant Government Land," describes every acre in every county in U. S. A million acres vacant. How to secure 160 acres by entry, 1909 diagrams. All about irrigated farms. Price, 25¢, postpaid. Webb Pub. Co., Sta. 4, St. Paul, Minnesota.

WANT A FARM in Oregon? Of course you do. We claim to have the most complete list of Willamette Valley farms to be seen in the state. Be sure to make us a call when you reach Portland. Write us today for list and prices. Starr & Foster, 1022 Board of Trade, Portland, Oregon.

320 ACRES—Grant County, Oklahoma; 210 in cultivation, balance prairie; woven fence; good buildings; ideal home; grain, alfalfa and stock farm; 100 acres growing wheat; 4 miles from town; 6 miles from county seat; \$42 per acre. C. Y. Davidson, owner, Medford, Oklahoma.

400 ACRE farm, 11 miles from Sedalia, the Stato Fair city; \$32.50 per acre. 94 acre farm; now improvements which are worth \$3,500; 7 miles; for \$1,500. 50 acre chicken and hog ranch, \$1,500. We make a specialty of bargain property. F. Taylor Cain, Sedalia, Missouri.

LAND FOR SALE in the Twin Falls Tract of the famous Snake River Valley of Southern Idaho, where crop failures are unknown. The country for the homeseeker and the investor. For prices and particulars write Graves & Finch, Filer, Idaho.

WANTED—Farms and businesses. Don't pay commissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties free. American Investment Association, Minneapolis, Minn.

READ—200 acres, two miles of county seat; fine home. Write us. 160 acres, 5 miles of county seat; well improved; trade for Western Kansas land. Fine bargains in level wheat land for speculators. Yours for business, Layton Bros., Osborne, Kansas.

HOMESTEADS, timber claims, coal lands in famous Musselshell Valley, Montana. Reasonable location fees. Ranches, farms and business locations for sale. Musselshell Development Co., Musselshell, Montana.

COLVILLE Land Company—Ask us to send you folder, giving description and prices of timothy, fruit, grain and timber lands we have for sale in Colville Valley, Colville, Stevens Co., Washington.

MICHIGAN fruit farms. We list best \$20 to \$40 lands in the famous Frost Proof Belt. Apple orchards net \$300 to \$500 acre. We also plant. Get terms. Fair Oaks Nursery Co., Traverse City, Michigan.

80 ACRES—12 room house; 2 barns, 46x46, 30x25; granary; 2 large hen houses; orchard; telephone; 4 miles Owego; owner away; must go; \$1,800; ½ cash. Hall's Farm Agency, Owego, Tioga Co., N. Y.

BIG BARGAIN—190 acre farm two miles from Willmar, city of 5,500; nearly all under cultivation; mostly fenced; fine buildings; large grove; fine land. Price \$49. A. H. Brown, Willmar, Minnesota.

FOR SALE—To settle an estate, 160 acres best farm land in Lucas County, Iowa, three miles from Charlton, \$100 per acre; also sixty and eighty acre farms cheap. C. W. Ramsey, Oakley, Iowa.

FOR SALE—300 well improved farms in north-east Kansas, at prices from \$50 to \$100 per acre. Write for price list and description to Manville & Bailey, Holton, Jackson County, Kansas.

A BARGAIN—160 acres; new seven room house; good barn and all buildings, highly improved. Must be sold before March 1, 1910. Write at once. German Savings Bank, Chester, Iowa.

100 IMPROVED farms in Central Minnesota; all sizes; cheap prices; easy terms; always a good title. Write for land list No. 32; mention this paper. C. D. Baker, Fergus Falls, Minnesota.

CORN, wheat and all staple crops grow to perfection here in the garden spot of Oklahoma. Prices reasonable. Write for list and descriptive literature. C. E. Pochel, Newkirk, Oklahoma.

TO CLOSE an estate, 280 acres; good improvements; near school and mail; \$55; other land selling \$60 to \$65; easy terms. Near Iowa state line. U. H. Palmer, St. James, Minnesota.

\$35 PER ACRE for 480 acres land in Rocks Co., Kansas; 360 acres in growing wheat; ½ of crop with land. Write for list of 50 farms. C. H. Dewey, Stockton, Kansas.

SO E. Z. TO get a nice farm home in the mild climate of Virginia. May we tell you how? Casselman & Co., est. 20 years, Richmond, Virginia.

200 ACRES; well improved; 3 springs; 2½ miles Niangua; \$5,000, \$2,000 down. Other farms. L. A. Hudson, Niangua, Webster County, Missouri.

EASY MONEY farming in Texas on Palo Blanco Gardens. \$10 per month. Write Street Realty Co. (Inc.), San Antonio, Texas, for free booklet.

500,000 ACRES of good grain land to be had under the homestead act near here; good climate. Address Business Men's Club, Columbus, Montana.

200 ACRES good land, 3 sets of buildings, or 3 farms in one. Price only \$4,400. Lewis Farm Agency, Candor, Tioga County, N. Y.

FOR SALE—80 acres close to Paola; new buildings; high state of cultivation; plenty of water; \$90 per acre. Box 532, Paola, Kansas.

TEXAS Gulf Coast prairie land; good agricultural land; well located; \$17 to \$37.50 per acre. G. T. Reinhardt, East Bernard, Texas.

FARM FOR SALE—Near town, level, plenty water. Information that will surprise you. S. L. Root, De Smet, South Dakota.

CHOICE BARGAINS—80 to 320 acre farms; good quality soil; fine locations. Write for list. J. M. McCown, Emporia, Kansas.

HAVE moved to town, and will sell three quarter section farm, either part or all. M. M. Cook, Monango, North Dakota.

SNAP—Montana choice fruit and agricultural ranches. For particulars, write Millor & Clement, Belfry, Montana.

BOOK of 500 farms and other property to trade, sent free. Graham Brothers, Eldorado, Kansas.

GOOD ALFALFA and wheat lands. Send for lists. Stevens & Ruby, Stockton, Kansas.

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GO TO Western Washington, where land is cheap; where ten acres make a farm; no irrigation needed; no blizzards, cyclones nor droughts. On the Pacific slope our climate is unsurpassed. Plenty of good lunting and fishing. Cheap fuel, coal and wood. Plenty of work the year round at high wages. Dairying, poultry raising, fruit growing and gardening pay. For views and information, write Secretary Commercial Club, Centralia, Washington. We want you to come.

POULTRY.

BENNETT'S Poultry Record and Expense Book. Keeps daily account of all eggs collected, sold, price per dozen; the opposite page a correct record of all money spent and just what for. 25 cents; money back if not satisfied. E. W. Bennett, Box 656, New Britain, Conn.

BARRED Plymouth Rocks—Won 1st cock, 1st cockerel, 1st hen, 1st pen and 2d pullet at the great South Western Iowa Poultry Show, January, 1910, at Shenandoah, Iowa. Send for free mailing list. Get your egg orders in at once. A. D. Murphy, Essex, Iowa.

WHITE WYANDOTTES—The blocky type; with vigor, size and great egg producing quality. Fine strain of winter layers. Low price. Be friendly. Write me your wants today. Mrs. A. A. Berry, Clarinda, Iowa.

RHODE ISLAND Reds. Egg producing strain, splendid, hardy, farm-raised birds. Genuine Red. Not buff or salmon. Low prices. Be friendly. Write me your wants today. Mrs. A. A. Berry, Clarinda, Iowa.

45 BREEDS pure-bred chickens, ducks, geese, turkeys and incubators. Send 4 cents for large poultry book and price list. H. H. Hunkler, Dept 5, Mankato, Minnesota.

R. C. WHITE Orpington cockerels, from best strains, \$2 and up. R. C. Black Minorca cockerels, Northrup strain, \$1 and up. C. G. Englund, Marathon, Iowa.

CORNISH INDIANS exclusively; 30 cockerels, good size, heavy bone, fine plumage. Eggs in season. Mrs. Jno. E. Griffith, Washington, Iowa.

BUFF ORPINGTONS, Imported stock. Columbian Wyandottes; great laying strain. Stock and eggs for sale. J. S. Catterson, Sutton, Nebraska.

S. C. R. I. RED eggs from prize winners at four shows. Cockerels for sale. Herbert Crum, Bedford, Iowa.

FOR SALE—Barred Plymouth Rock cockerels, \$2 and up. Aye Bros., Grant St., Blair, Nebraska.

WRITE ME for Pekin ducks and Toulouse geese. Frank Martin, Clare, Iowa.

HELP WANTED.

WANTED—Railway mail clerks, postoffice carriers, clerks, custom house clerks. Salary \$600 to \$1,500. Steady work, short hours, annual vacations, salary twice monthly. Thousands of appointments during 1910. City and country residents stand equal chance. Common school education sufficient. Political influence not needed. To advertise our schools we are preparing candidates free. Write immediately for schedule showing dates and places of examinations. Franklin Institute, Department P, 26, Rochester, N. Y.

GOVERNMENT farmers wanted. Salary \$75 monthly. Free living quarters, fuel and light. Ee ammunition soon. Let us prepare you now. Write today. Ozment, Dept. 42, St. Louis, Missouri.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination; 100 free scholarships. Write for schedule and free trial lesson. Ozment, Dept. 42, St. Louis, Missouri.

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SEEDS AND NURSERY STOCK.

PURE BRED Gartun, regenerated oats, Swedish Select oats, Oederbrucker barley, Durum wheat, White Flint and Silver King seed corn for sale. Two good men wanted. My farm for sale. Write me your wants. M. O. Myrick, Bristol, Wisconsin.

SEED OATS—Regenerated Swedish Select, Early Kherson, Swedish Select, (Wisconsin No. 4). America's three best oats. Farmers' price. Reclaimed. Sample and circular. Alfred Klein, Lomira, Wis.

250 STRAWBERRY plants, \$1, in three best varieties. Wholesale prices on nursery stock. Catalog free. John F. Dayton, Waukon, Iowa.

BUNKER'S Yellow Dent. Fire dried; tested; high quality; high price. Sample, 10 cents. F. Bunker, Kilbourn, Wisconsin.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

HORSES AND JACKS.

FOR SALE—High grade Shire stallion, nicely built; plenty size and bone; excellent breeder; also good Percheron yearling. Lucrs Bros., Route 4, Sigourney, Iowa.

FOR SALE—Black Percheron stallion, 8 years old; also yearling; both black and registered. Hanford & Kuntz, Granger, Missouri.

CATTLE.

GUERNSEYS—"The Butter Bread"—choice youngsters; both sexes; from official record and advanced registry ancestors. A. H. Hinman, Allen-ville, Wisconsin.

CHOICE Polled Durhams. No scurs. F. Bunker, Kilbourn, Wisconsin.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

DOGS.

FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successful cool, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

POST CARDS.

20 HIGH-GRADE post-cards, birthday greetings, landscapes, Easter and other beautifully colored, sent postpaid for only 10 cents. Address Kusnitz & Co., 944 Chateau Ave., St. Louis, Missouri.

AGENTS WANTED.

WE PAY \$80 a month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bigler Company, X125, Springfield, Illinois.

MISCELLANEOUS.

FOR SALE—One 20 H. P. Northwest plow engine with plow gear and extension rims; one 18 H. P. Minneapolis return flue engine in nice shape, ready to go to work; one 16 H. P. Shepard return flue engine; one 18 H. P. Nichols & Shepard return flue engine. For full particulars, address Chas. N. Maurer, Spencer, Iowa.

MILK BOTTLE Brush that is guaranteed to keep milk bottles clean. Money back if you are not satisfied. Whittier Bros. Brush Factory, 307 Wethersfield Avenue, Hartford, Conn.

ONE SANDWICH cylinder corn shelter, size A, 2, 36-in. drag all in good shape; will sell cheap. Address M. S. Cray, Madrid, Iowa.

WRITE TO King Publishing Co., Cedar Rapids, Iowa, for information describing the best Farmers' Account Book published.

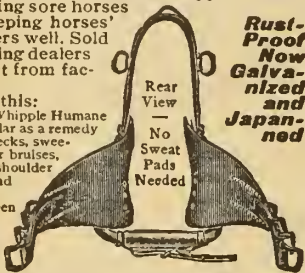


Harvey's Mammoth 2440 is a high-class three-year-old Mammoth jack that sells in the Cloverleaf Valley Jack Farm sale, to be held at La Plata, Mo., on Tuesday, March 15th, by Mr. G. C. Roan, of La Plata, Mo. Harvey's Mammoth stands fifteen and one-half hands high, standard measure, and was got by Walter's Mammoth, a jack that sold for \$1,000 as a colt. See page 46 for Mr. Roan's advertisement and get his catalog.

Find Here How To CURE Horses' Shoulders

READ here what one of the leading veterinarian editors of America advises. Also many others, and Agricultural College letters shown in our free book, telling why 100,000 Whipple Collars are curing sore horses' shoulders well. Sold by leading dealers or direct from factory.

Read this: "This Whipple Humane Horse Collar as a remedy for sore necks, sweats, collar bruises, galls and shoulder stiffness and lameness. For nineteen years I have been the veterinary editor of one of the leading live-stock journals of this country and had thousands of inquiries regarding the treatment of the ailments mentioned. I have also personally seen and treated thousands of cases of these ailments, all of which could have been prevented had the



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been invented and horse-owners have used them. I consider it the only practical device as yet having been invented that will enable horses of all forms of shoulders to exert their strength without danger of causing shoulder lameness, sweats, sore neck and collar bruises. I say this after having given it a three years' severe trial on my farm teams and driving horses."—C. D. Smead, Veterinary Editor for the National Stockman and also the N. Y. Tribune Farmer.



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\$1200 year and upwards can be made taking our Veterinary Course at home during spare time; taught in simplest English; Diploma granted, positions obtained for successful students; cost within reach of all; satisfaction guaranteed; particulars free. **ONTARIO VETERINARY CORRESPONDENCE SCHOOL**, Dept. 10, London, Canada.

A. S. ALEXANDER, V. S.
MADISON, WIS.,
Veterinary Editor The Homestead.

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PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

RINGWORM.

My calves have a circular spot, on head mostly, and most of them about the size of a fifty-cent piece. It has a scabby appearance and is on nearly all parts of their body. Can you give me a remedy?

Scrub and scrape each spot clean and then when dry rub in iodine ointment and repeat the application at intervals of two or three days until well. Also clean up, disinfect, ventilate, sunlight and whitewash the stables.

COW LOSING CUD.

Is there such a thing as a cow losing her cud? If so, please tell me the symptoms.

A cow simply stops chewing her cud when she is sick from indigestion or other cause. Giving an artificial cud is a silly and useless procedure. Usually a full dose of physic will set matters right.

STOCKING—GARGET.

(1) Will you please tell me what I can do for an eleven-year-old mare that has been bothered with her hind legs stocking? This has been bothering her for about six months. We feed her no corn. (2) I also have a young cow that had her second calf the past week, but one of her teats has only a few streams of milk. I would like to know the cause and what can be done for her. Last fall as she went dry a few drops of blood came out of this teat.

(1) Give her a roomy box stall in stable and bandage her legs each time she comes in as soon as the legs have been thoroughly rubbed. (2) The affected quarter has lost its function from a previous attack of garget at drying-off time. Rub the quarter with camphorated oil twice a day and so dry it off.

PROLAPSE OF VAGINA.

I have a full-blood O. I. C. sow whose womb comes out one and one-half inches. She has been that way about two months. She runs at large in a hog pasture and eats well and does well. She farrowed last spring all right. I would like to know what can be done for her.

It is not the womb, but the vagina that protrudes. Keep her out of the hog yard and let her exercise in a clean place, else infection of the everted part may ensue. Sponge part with extract of witch-hazel as often as it protrudes; then return it to place. Put the sow on light, laxative slop and do not feed corn or any constipating food.

BITTER MILK.

I have two cows whose milk is bitter. I have been feeding clover and timothy and some wild hay, also some carrots, beets, ruta-bagas and a few parsnips twice a day after milking; last winter the milk was bitter with the same kind of hay, but no roots of any kind. What is the cause, and is there a remedy?

The food is probably causing the bitterness and it would be well to change to a ration of the clover and timothy hay, bran, corn meal and hominy or gluten meal. The wild hay may be the cause. It may be necessary to experiment with different feeds until the trouble is removed. See that all milk utensils are carefully scalded and sun dried, as bacteria in the vessels are a common cause of such taints in milk.

FITS.

I have forty head of last summer's calves ranging in age from five to ten months old. I keep them in a yard containing about an acre, and they have a good shed. I feed them second crop wild hay about all they will clean up and eighteen gallons of shelled corn to the forty head daily, and always have rock salt. Some weeks ago when we chased them from the shed to the feed bunk one of them had a fit. All at once he rolled over and commenced to kick, and his eyes rolled backward. The spasm continued for a few minutes and he then got up and staggered over to the feed bunk and started to eat. Afterward when he moved around a little, the spasms would occur again. There are now eight affected the same way. They are generally quite bloated and the smallest calves are affected. I notice some blood in the manure passed by them. The veterinarian advised me to give them some salts to physic them, which I did. One calf has died so far,

but the rest of them seem to be getting better, but I notice blood in the manure of some that have not been sick yet. The veterinarian here thought it was a disease similar to blackleg. What do you think is the matter with them?

Indigestion is the cause and it will be less liable to trouble if you can add bran freely to the ration and substitute mixed clover hay or alfalfa hay for the wild hay. Physic each affected calf with castor oil shaken up in milk and repeat the dose at the first symptom of trouble. If bloating persists lessen food and mix equal parts of powdered wood charcoal and hyposulphite of soda in the feed night and morning at rate of a dessertspoonful of the mixture for each calf.

STALL KICKING.

I have a sorrel mare three years old that kicks in the stable and I would like very much to have a remedy for it if you have any. She also has a capped hock. Could you give me a safe cure for this without causing any bad results or blemishes? She has a crack in her right hind hoof and her hind legs swell at night when standing in the stable. Could the kicking cause the crack and the swelling? If so, what would you advise doing for a cure? I think she may have a light touch of blood spavin. She is a large and valuable mare and never kicks only when in the stable. She is in foal and will bring a colt some time in May. I have used no remedies in either case.

Give her a roomy box stall in stable and see that she is worked or abundantly exercised every day. Bandage her legs from feet to knees and hocks each time she comes in. If she persists in kicking when given a box stall attach a ten-inch chain to a strap and buckle it around the pastern of the leg with which she kicks or put chains on both feet if necessary. The capped hock, if long there, will prove incurable. Once daily rub in a little iodine ointment, also give a thorough massage twice a day without using ointment.

ABSCCESS.

One morning about a month ago I went out to milk and found that one of the three-year-old milk cows seemed to be bloated and on further examination I found that it was not gas, but seemed to be solid. I gave her some physic and on the fourth day a knot about as big as my fist came right in front of her left hind leg. By night it had swollen all the way to her front leg about as large as my arm. It kept on swelling and in a week it spread over her side and was about a foot wide. I examined it and found it to be pus. I opened it right behind her front leg and about as near as I could guess about four gallons of bloody, foul-smelling matter ran out. She seemed to have a good appetite, but kept on getting poorer and in two weeks got down and couldn't get up, so I knocked her in the head. I had been feeding wild millet and barley. I would be glad to get any information concerning her and would like to know what to do with another if it should happen to get the same disease.

An abscess formed and possibly came from a bruise. It should have been opened at once for evacuation of pus which became decomposed and caused poisoning from absorption of morbid matters into the system. When an abscess is opened promptly and disinfectants are used recovery usually is speedy and complete.

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Wonderful
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MOON BLINDNESS
and all Diseases of the Eye
successfully treated with
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Money Back if it fails to cure. \$2.00 per bottle postpaid on receipt of price, Visio Remedy Ass'n, Dept. D, 1933 Wabash Av., Chicago, Ill.



WANTED--Farmer or Farmer's Son With rig in every county to introduce and sell family and veterinary remedies, extracts, etc. Fine pay. Woman business. We want salesmen in all states. Write us. **SHORES FARM REMEDY CO., TRIPOLI, IOWA.**

Clip Farm Horses In the Spring



Do it before putting them at the heavy spring work. Take off the thick winter coat that holds the sweat and dirt. You would not care to stand at night with a wet suit. Neither do your horses. Clip them, and it required, blanket them when standing.

Clipped horses dry off fast, rest well, and do more and better work.

**The Stewart No. 1
Ball Bearing
Horse Clipping
Machine**

Costs \$7.50
Only

Every gear in this splendidly made machine is cut from the solid steel bar and is file hard so that it outwears anything else of the kind ever made. Gears are all enclosed and protected from dust and dirt and run in oil. It turns easy and clips fast. Machine is guaranteed for 25 years. Clips a horse in 30 minutes.

Get one from your dealer now or send \$2 to us and we will ship C. O. D. for the balance. Write for big new catalogue showing world's largest line of horse clipping and sheep shearing machines. Now is the time.

Chicago Flexible Shaft Company
234 Ontario St. Chicago



Influenza, Pinkeye, Epizootic Shipping Fever and all diseases of head and throat on horses, sheep and dogs in a surprisingly short time with that reliable **GUARANTEED REMEDY**

Crafts Distemper Cure

Its effect and results are remarkable. So sure— it is sold on a money back guarantee. We prove its merit at our expense if it fails. May be given to brood mares, stallions or colts. Cures when all else fails. If your dealer can't supply you don't take a substitute, send to us. Send for our 3 Free Horse Books.

Wells Medicine Co.,
18 Third Street,
LaFayette, Ind.



Any person, however inexperienced, can readily cure either disease with

Fleming's Fistula and Poll Evil Cure

—even bad old cases that skilled doctors have abandoned. Easy and simple. No cutting; just a little attention every fifth day—and your money refunded if it ever fails. Cures most cases within thirty days, leaving the horse sound and smooth. All particulars given in

**Fleming's Vest-Pocket
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Best veterinary book for farmers. Contains 192 pages and 93 illustrations. Durable bound in leatherette. Write us for a free copy.

FLEMING BROS., Chemists,
210 Union Stock Yards, Chicago, Ill.

KENDALLS SPAVIN CURE

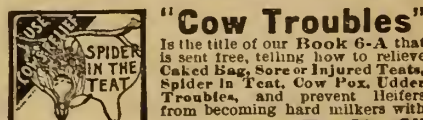
NEVER KNOWN TO FAIL

Noosneck Hill, R. 1, May 4th, 1909. Gentlemen: I keep a number of horses and have used your Spavin Cure for the last eight years. I have never known it to fail in whatever way used. T. W. Babcock.

For Spavin, Ringbone, Curb, Splint, Sprains, Swollen Joints, All Lameness

—Proved by 40 years of use by hundreds of thousands, the best that the medical world affords. The standby for family use also. \$1 a bottle, 6 for \$5. Buy at drug stores and get free book, "A Treatise on the Horse," or write to—

DR. B. J. KENDALL CO.,
Enosburg Falls,
Vt.

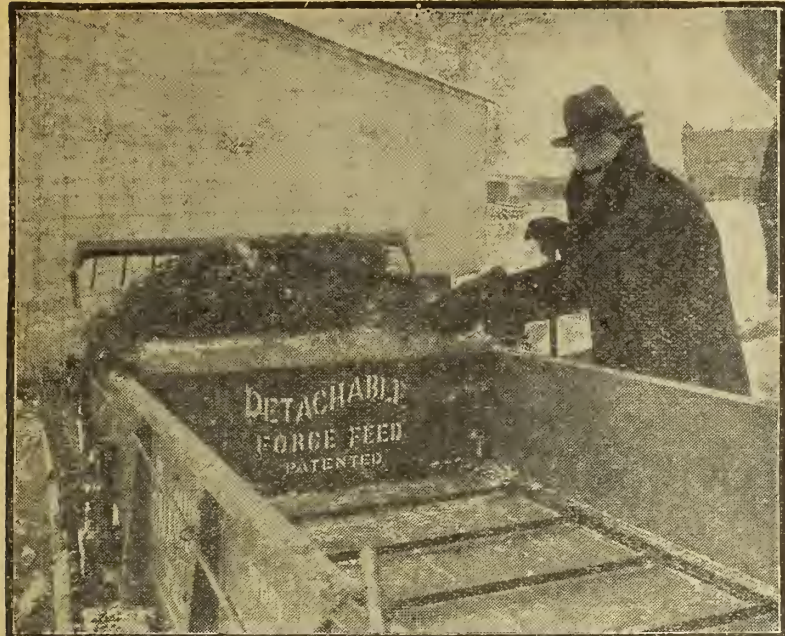


"Cow Troubles"

Is the title of our Book 6-A that is sent free, telling how to relieve Caked Bag, Sore or Injured Teats, Spider in Teat, Cow Pox, Udder Trouble, and prevent Heifers from becoming hard milkers with

"Cows Relief"

HORSES Going Blind, Bury Co. Iowa City, Ia. Can Cure.



See Box Cleaned Out Slick as a Whistle and Uniform to End of Load by My Exclusive, Detachable Force Feed. No endless apron, without this, will work perfectly without driving extra distance.



Here I Stand with 2-Foot Ruler Showing 1 1/2 Tons of Manure Piled 18 Inches Above Box on the Galloway.



Spreading in Snow to Hubs with the Galloway with Only 2 Horses and Manure Piled 18 Inches Above Box. Notice How Easy They Pull It.



Showing Wide, Even Spread with All Machine Working Perfectly Even in Mid-winter—with Snow to Hubs. Fits Any Truck You Already Have.



Every Pound of 1 1/2 Tons of Manure Spread Clean Out Even and Uniform to the End of the Galloway Box by Perfect Principle and My Detachable Force Feed. Worth \$25.00 Extra, but Costs Nothing Extra on the Galloway. Can be had on no other.

This Great Book FREE Now

—Send letter, postal card, coupon below, telephone or wire to me. Ask for my Book of Facts on the Galloway Spreaders. Today, right now, is the best time. Do it before some other thing comes up. Tell me the kind of trial proposition you'd like to have.



STOP—

Get Out Your Pencil—Do This Now to Make Yourself Money

HERE'S a valuable example—a farmer's find—every farmer's gold mine—illustrated here. Snow to the hubs—from actual photographs showing the Galloway—spreading valuable manure in winter and spring days when you can make a lot of money for yourself—for bigger crops—for much more fall cash—a gold mine from manure pile to field—the best paying investment in farm machinery that you can put a small amount of money into and take a big roll of money out of—every year—every crop season—for many years—and guaranteed for 25 years by the actual maker after more than paying for itself the first season.

Over 40,000 Farmers of America will tell you that the Galloway is O. K.—A number 1. And I'll prepay the freight on the size to suit you of 50 to 70-bu. capacity—delivered free—to your station. You to be the judge this way—entirely at my risk—whether there is a manure spreader today, or in all implement history, that can equal the Galloway—or beat it on any test.

What's the use of delaying? You've got the farm to use it on. You've got the manure to spread. Even a boy can use the Galloway easily—with only two horses. Does all the work in half the time—saves labor expense, and every time the wheels go round it makes and saves money for you. It's a real gold mine for bigger crops and as a labor and time saver. No other can equal it.

Never Since Christopher Columbus Discovered America—

No sir, never before in all history have such standard, high quality, superior manure spreaders been sold at such extremely low, wholesale quantity prices. Better machines, mind you, in every way, at only actual cost of material, labor and one very small profit based on this tremendous quantity: 30,000 Galloway Manure Spreaders for this year. Anybody might just as well have one of these machines when they can get in on a wholesale deal of this kind. Be your own dealer, buyer and agent.

Get ready for spring—to start bigger crops on your properly-fertilized fields by using a Galloway. Never was so much manure piled around the barns and feed lots as there is this year. Never, in 15 years, has there been such a need for manure spreaders as there is this Spring. I say, again, are you ready?

Don't put off this manure spreader matter one more day! Don't let it wait over night!

Besides my free catalog Book of Facts I've got a new color-illustrated free book—"Net Results" to send you also. Big as a farm paper—with big, actual photographs and all facts to prove to you on your own judgment. 1.—Why you should buy a manure spreader. 2.—How it will pay for itself easily the first year. 3.—Why it should be a Galloway! Shows everything, point for point, that you want to know. Nothing like this book has ever been published before in manure spreader history. It is absolutely unique, and contains a great deal of valuable information on spreaders and the subject of fertilization which you, as a practical farmer, will appreciate.

With my 2 free books I'll send you my special Proposition Deals and this offer—
—Try My Galloway Spreader 30, 60, 90 or 120 days. If you are not satisfied, I will pay the freight both ways and refund every cent of your money with 6 per cent interest—or try it 12 months and if it does not prove a paying investment I'll do the same.

Just send me your name today—the coupon below makes it easy—or use a postal, a letter, write or telephone me personally—

William Galloway, Pres.

William Galloway Co., of America

Authorized Capital, \$3,500,000

109 Galloway Station, Waterloo, Iowa

Cut Out and Mail this Coupon

2 BIG BOOKS FREE

Here's the best, most practical and honest

Big Catalog of Facts

—Get it and you'll be a judge of all Manure Spreader Values.

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WM. GALLOWAY COMPANY, OF AMERICA
109 Galloway Station, Waterloo, Ia.

Here's my name. Send me your 2 Books on Galloway Spreaders and Special Proposition Deals including 12 months' Trial Offer.

Name.....

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IMPORTANT—Also makers of famous Galloway Gasoline Engines, all powers, and Celebrated Bath-in-Oil Galloway Cream Separators. Catalog Free. If interested—say which books wanted.

Absolutely new —this Big Book

"Net Results Are What Count"

Shows big, actual photographs; is large as farm papers.

NORMAL YIELDS OF GRAIN.

For the first time the statisticians of the agricultural department at Washington give in the December Crop Reporter a calculation to show what a "par yield" of grain in the United States means. Based on the average figures of the past ten years a condition of 100 per cent indicates 17.5 bushels per acre of winter and spring

wheat, 32.6 bushels of corn, 36.8 bushels of oats and 118.1 bushels of potatoes.

A crop of 100 per cent would vary in different states. A corn yield of 100 per cent would be about forty bushels in Iowa, thirty-five bushels in Kansas and Oklahoma and still less in the southern states. There are equal variations in the "par yields" of wheat in

different states. The statisticians of the agricultural department arrive at the "par yields" by taking the average harvest condition of the crop for a period of ten years, in percentage, and applying it to the average yield as finally estimated. Thus the average winter wheat condition in July for ten years was 79.6 per cent; the average yield per acre for ten years was 13.9

bushels. Dividing the latter figures by the former gives 17.5 bushels as the indicated yield of a crop with a condition of 100 per cent.

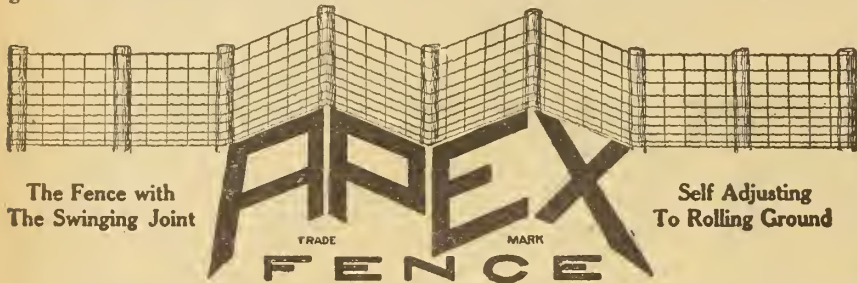
The horseless carriage, the spineless cactus and the odorless onion will soon have to be followed by the coalless stove or there will be some moneyless papas in this vale of tears.



Handiest article you can have about the farm and home. Full nickel plate. Ten feet of best linen waterproof tape. Indelible markings in two colors. Fits any pocket.

All we ask you to do to secure this gift is to write us a postal card request for it, telling us on the card the number of rods of fence you have on your farm.

WE WILL SEND YOU THE TAPE-MEASURE ABSOLUTELY FREE, together with full information about



You are going to buy "Apex" fence sometime, because you are going to get the best sometime. Why not do it now, the very next time you build a fence?

It's no use putting up the wrong fence and then replacing it later with the right one. "Apex" fence is guaranteed to be the most convenient to erect and the most rigid in resistance of any fence made. Adjusts itself perfectly to hilly surfaces.

Write for the tape-measure and information about "Apex" Fence now, while you think of it. Just a postal card request, telling the number of rods of fence you have on your farm.

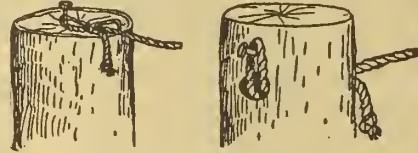
Janesville Barb Wire Co., 200' S. Franklin St., Janesville, Wis.

HINTS-SUGGESTIONS-DEVICES

We extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

HANDY HITCHING POST.

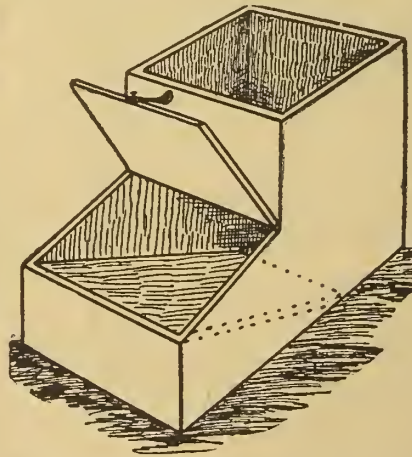
A handy hitching post may be made by either of the methods illustrated herewith. Where a rope halter strap is used it can be passed through a staple driven in the top of a post and the loop passed over a round-headed bolt an inch or so beyond the staple as shown in the illustration. Another method is also seen in a part of the illustration to the effect that the rope is doubled and passed through a hole in the post and then passed up over a round-



headed bolt. Either of these will answer very well for hitching and may be an improvement over some of the poorer plans of tying. There are those who cannot tie a halter rope so it will stay tied.

Coal Bunk.

My husband made for me a coal bunk for my kitchen which I am very proud of, writes a Missouri subscriber. I do not like a leaky coal bucket, neither am I stuck on a leaky cob basket. The coal is pounded up small enough to be suitable for the kitchen range and the hopper is filled from the top by emptying the pails into this chute. The coal falls down into the lower part of the hopper, which

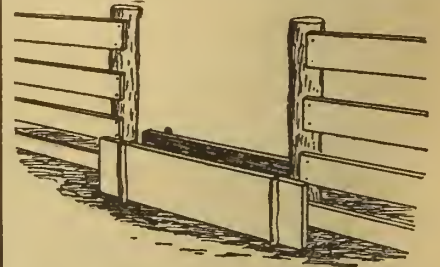


has an incline bottom so the coal can be shoveled out for use when the hopper is full of coal. The lid on the lower part of the hopper is such as to keep coal dust from settling when filling takes place, and I usually keep a cob basket on top of the hopper to hide the coal in that part of the coal box. I like this one very much and recommend it to farmers' wives.

A Hog Gate.

For some time I have had in use on my farm a device for keeping hogs from passing through a gate where I wished the cattle to pass through, and it works all right. About one foot from the gate I have set on either side of the fence two bridge planks on edge about a foot from the fence and made fast there by some stakes driven into the ground to hold them

to place. A hog will not jump over one of these, for he cannot see his way clear to jump over both of them.



He will pass through between the two planks and pass out at the other end none the wiser for his experience. This plan works very well and is one that is easily constructed.

Care of Paint Brushes.

Keeping paint brushes soft without cleaning them out every time after using, was a problem that for a long time confronted us. They would stay soft when put in a can of water, but quite often by the time the brush was wanted again the water would be evaporated, and the brush ruined.

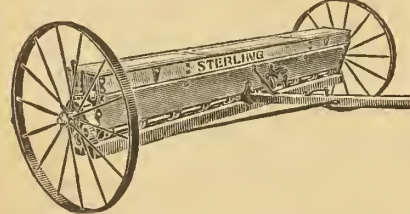
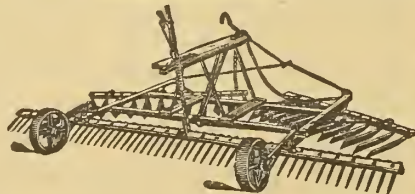
We tried kerosene, writes C. O. Thomas, of Kansas, but that destroyed the bristles, although it did not evaporate much; this gave us an idea. We put the brush in the can and covered the bristles well over with water, then put kerosene on top of this. It didn't take much, but the evaporation was stopped, as the kerosene will always stay on top of the water, it being the lighter.

us an idea. We put the brush in the can and covered the bristles well over with water, then put kerosene on top of this. It didn't take much, but the evaporation was stopped, as the kerosene will always stay on top of the water, it being the lighter.

On Building Barns.

A Fenton, Iowa, subscriber, who intends to build a new barn, asks us the following questions: What is the best ventilating system? Will using a blower to fill the loft with straw cause dust to settle on the shingles and rot them? Is it true that yellow pine will not hold paint and will, for this reason, rot sooner than white pine? As to the ventilating system, the "King" is admitted by most barn builders to be the best. However, many small improvements have been added to the original King ventilating plan, and are called by different names, but the principle is just the same. As to the dust from a blower rotting the shingles, it certainly will. It penetrates every small crack and collects on the under side, preventing the wood from drying out after a rain. But why use shingles? The writer has been building barns for some twenty-odd years, and can say from practical and actual experience that a good brand of composition roofing will outlast shingles two to one and moisture will have no effect whatever on it. Use a composition roof by all means, laid over shiplap, nailed in place with ten-penny nails. As to the hard pine for the exterior walls, it will not last nearly as long as white pine, but as it is practically impossible to obtain good lumber of either kind, do not use either kind. Build a good frame barn with plenty of braces, cover the walls with shiplap, and this in turn with 1x2-inch furring strips. Then plaster with two coats of Portland cement, over wire lath. In many sections this stucco, or cement plaster work, will be found cheaper than pine. It is cool in summer, warm in winter, requires no paint, no repairs, and will last for a lifetime. The interior woodwork being protected from the sun, wind and rain, will also last for a lifetime. If this

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Here Are Two Extra Good Ones-- "STERLINGS"



We Make Force Feed, Wide Track Agitator Feed, Wide Track Narrow Track, Force Feed Write Us Today

Sterling Manufacturing Company, Sterling, Illinois.

RAISED TO PASS HOGS AND HOLD BACK OTHER STOCK

See The Points

They point to the solution of all your gate troubles.

Cyclone Farm Gates

are constructed of special high carbon tubular steel because it is the strongest material that can be found. Cyclone Gates are shipped with malleable hinges, latches and everything necessary, ready to hang to posts. All Cyclone Gates are guaranteed sag-proof. Cyclone frames are not drilled full of holes for fastening the wire fabric. The parts of the frame are connected by our special inside fittings that add greatly to their strength. Let us show you how it will pay you to have these gates on your farm—how it will save you time, trouble and money. We will send catalog free, also our finely illustrated book of Lawn and Cemetery Fencing. The largest and most complete line manufactured.

CYCLONE FENCE COMPANY, Dept. 121, WAUKEGAN, ILLINOIS.

SO LIGHT A CHILD CAN OPEN IT

CLOSED TO HOLD ALL STOCK

Farm Gates

Iowa Gates

hang close to the ground and have barb wire at bottom, so they are hog and chicken tight. You can raise them a little to pass over slight obstructions or away up high enough to let hogs run under or to swing over deep snow drifts. They are made of **High Carbon Steel Tubing**, not common gas pipe, but specially made, double strength tubing that is heavy enough to turn all vicious stock.

Cost Less and Last Longer

Sent on 60 days free trial. Write for free book on farm gates.

JOS. B. CLAY, Mgr. Iowa Gate Company
9th St., Cedar Falls, Iowa.

14 3/4 Cents a Rod

For 22-in. Hog Fence; 15 3/4-c for 26-in.; 19 3/4-c for 31-in.; 22-c for 34-in.; 25-c for a 47-in. Farm Fence. 60-inch Poultry Fence 31-c. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.

KITSELMAN BROS., Box 290 MUNCIE, IND.

ANCHOR Fence

All styles for field and lawn. Best material and construction. Free sample and catalog. Dept. H.

Anchor Fence & Mfg. Co., Cleveland, Ohio.

protected from the sun, wind and rain, will also last for a lifetime. If this



It Will Pay You To Ship Us Your HIDES

YOU can have a warm, serviceable fur coat made from your cow or horse hide that will wear you for years. We tan and make them up into soft and pliable coats, robes and rugs, moth and waterproof and guarantee the work. Write us today for our **FREE BOOKLET** It tells you all about hides.

Des Moines Tanning Co.,
Dept. A Des Moines, Iowa.

Ship us the Hides We do the rest

Get Our FREE Book
This book tells all about Tanning: "How to care for hides," "How to ship," "Prices for tanning and making coats and robes" and "Our iron-clad guarantee." If you are not satisfied you owe us nothing.

COATS AND ROBES
We have made thousands of fur coats and robes for others, so you are absolutely safe in sending your hides to us. Nearly every farmer knows the "Cowboys." Send for free booklet today.

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GLOBE TANNING & MFG. CO.
222 S. E. 1st St., DES MOINES, IOWA.

NORTHWESTERN TANNING CO.,
Box E, Albert Lea, Minn.

References:
First Nat. Bank, Citizens Nat. Bank of Albert Lea.

Honest Work
Moderate prices. Don't sell your hides. It's wonderful what splendid Robes, Coats and Mittens they will make, and so cheap, too. Send for our price list. Read the testimonials from satisfied customers. We tan harness leather. Try us this year. Highest market price paid for hides.

RAW FURS

Hunters--Trappers--Ship your Raw Furs and Hides to us. We pay higher price than others because we are manufacturing furriers. Send for price list and compare it with others. With price list we will send you a proposition whereby you can get pair FUR GLOVES FREE. We also tan hides and make Fur Coats and Robes. M. L. Glickman & Co., Dept. A, 205 Court Ave., Des Moines, Ia.

SHIP YOUR FURS
HIDES and PELTS

To McMILLAN FUR & WOOL CO.
MINNEAPOLIS, MINN.

Illustrated Circular Free to anyone interested in RAW FURS.
Trappers' Guide Free to those who ship to us

BROWN FENCE

For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. We pay freight

The Brown Fence & Wire Co.,
DEPT. 34 Cleveland, O.

Cheap as Wood.

We manufacture **Lawn and Farm Fences**. Sell direct shipping to users only, at **manufacturers' prices**. No agents. Our catalog is free. Write for it today.

UP-TO-DATE MFG. CO. 927 10th St., Terre Haute, Ind.

48IN. FENCE 27c

Best high carbon coiled steel wire. Easy to stretch over hills and hollows. **FREE** Catalog--fences, tools. Buy from factory at wholesale prices. Write today to Box 53 W. H. MASON, LEESBURG, O.

FENCE STRONGEST

en-tight Sold to the user at Wholesale Prices. We Pay Freight. Catalogue Free.

COILED SPRING FENCE CO.,
Box 20 Winchester, Indiana.

subscriber will each season sweep down the dust that collects on the under side of the roof he will have no trouble with same.

A Sled Runner.

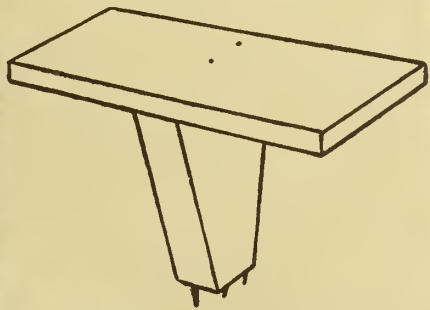
During the past winter we have noticed a good many ways of constructing runners for buggies. About the cheapest and quickest-made runners that we know of are being used here extensively in snowy weather. They are made by the blacksmith, or in the home shop, from gas pipe. One runner for the average buggy takes a piece of gas pipe about 1½ inches in diameter, and 7½ feet long, bent in the shape illustrated. Measurements should be taken of the height of the spindles from the ground, and the pipe bent to conform accordingly; usually two inches lower in front than behind. Threads are cut on each end, and tees



screwed on; these should be as long as the box in the wheel, so that when they are slipped on the spindle, and well packed with leather, that the runners will be good and solid when the axle nut is tightened. The material for a pair of runners costs about \$2. In fitting the runners to the spindles, if the tees used are too large in diameter for the spindles, nipples are screwed inside of the tees, but there should be room left for covering the spindle with leather, as this protects it from roughening. If the tees are too short for the spindles, nipples are also used to make them the proper length.

Milking Stool.

Here is a very handy milk stool which, I presume, is a very common one to most dairy people. Take either a piece of 2x4, either 10 or 12 inches long, or a round stick 3 or 4 inches in diameter. To this nail a board 6 inches wide and 10 or 12 inches long. Be sure to have the top and bottom of up and down piece square at each



end. If you are milking where there is a floor, take four or five six-penny nails, bite their heads off and drive them into the bottom until they stick out only about one-fourth of an inch, to keep the stool from slipping. I have used this kind of stool for thirty years and find after trying all other makes, that there is nothing else so convenient as this one.

In working with rough material around a farm shop it is sometimes necessary to do a little sawing and yet one hesitates to use a good saw. The materials that one has at hand to work in are often sandy and dirty and one cut will frequently necessitate the refiling of the the saw. A subscriber, Mr. C. O. Thomas, of Kansas, says that he has found that it is practicable to convert an old table knife into a saw. Of course it is necessary to file teeth in the knife, thus making of it a miniature saw. The accompanying illustration is self-explanatory and anyone who is at all handy with a file can make this device. Of course, the larger the knife the more vigorous will the saw be, and the better the steel in the knife the more effectively will the little saw take hold.

Ask your neighbor to subscribe for The Homestead.

1 A TRADE MARK THAT GUARANTEES

2 SELF-CONFORMING MIXTURE

3 SELECTED LONG RYE STRAW

3 GREAT POINTS IN

"UNO"

SELF-CONFORMING HORSE COLLARS



Horse collars that have the fitting and wearing qualities of the "UNO" are by all odds the cheapest collars to buy. They wear twice as long and give many times the satisfaction.

"UNO" collars have a heavy facing of Young's Uno self-conforming mixture backed up with selected long rye straw—a facing that adjusts itself perfectly to the shoulders—have double strength throats, giving extra strength where common collars are weak—have smooth, heavy sole leather top pads—are made only from bark tanned leather from best part of the hide—strong rims that will hold the hames in place—all sizes. Save time and expense, and save your horses from painful galls; \$3.75 to \$5.00 apiece, according to size and shape.

Look for the "UNO" Trademark.

BENJAMIN YOUNG, Dept. 55 Milwaukee, Wis.

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The woods are full of cheap, unreliable, short-lived engines that are dear at any price. You can't tell them by their looks always. That's why it pays to know something about who is back of the engine you buy; what goes into it; how it pleases its users, for in buying an engine you expect to buy but once in a lifetime. We have issued **folder No. 230** which tells

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R & V Gasoline Engines

Are the most satisfactory farm engines made. It tells about their

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R & V Engines never disappoint because they are of the highest quality. Be sure to ask for Folder No. 230 to-day. It will pay you to get posted.

THE ROOT & VAN DERVOORT ENGINEERING CO., E. Moline, Ill.

We will give \$100.00 for the 9 best ears of seed corn

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THE APPLETON MANURE SPREADER

bought in 1910. Write today for full particulars, and ask for our **FREE SPREADER BOOK**, which proves that the Appleton Manure Spreader is as strong as steel and oak can make it; so simple that any boy who can drive a team can run it as well as any man; and so effective in operation that it never bunches the manure, but pulverizes thoroughly and distributes evenly from the beginning to the end of the load.

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The Most Sacred Spot

in any community is the last resting place of loved ones, and if only as a mark of respect it should be fittingly kept and made proof against desecration

Cyclone Cemetery Fence and Gates

are designed to harmonize with and beautify the old burying grounds. They last for years, are stock proof and much cheaper than wooden fences. Write for our fine, free illustrated catalogue. Address

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way your name today and let me write you personally and send you my splendid, big color-illustrated separator book right away.

Let Me Send You My GALLOWAY Bath-In-Oil SEPARATOR On My Real 30 Days' Free Trial

YOU can test the Galloway alongside of the highest priced \$85 to \$110 separators sold by anybody today—to prove that my new Bath-In-Oil principle is the greatest invention in separators in history. Gears run in oil like a \$5,000.00 automobile. Dust-proof—no oil-hole. Impossible to heat or wear or put out of commission the splendid mechanism which gets you the biggest profits—all the cream—all the butter-fat. All gears enclosed—handsomest machine made (as you can tell below by the illustration); milk and cream spouts high for cans; lowest revolving milk tank, only 38 inches high; so no high lifting.

The Galloway is the easiest to clean, with few parts, which come out easy and cannot get back out of place; easiest to run; high crank; low tank; no high lifting and no "back breaking" cranking. Gets the finest cream qualities—and all of it. No lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down. Skims closest, in any climate or season, no

matter whether your milk is warm or cold. This handsome machine, compact and substantial, with beautiful finish, cannot be beaten at any price. And you cannot get my new Bath-In-Oil principle on any other separator. Remember, that this is most important. It proves to you why I can afford to give you a 30 years' guarantee because I know that the parts cannot wear this out—get hot—clog—or clash and put the separator out of commission like others do where you have to be remembering to oil them all the time. The Galloway is the only separator into which you can pour oil at the top once a month from your oil jug, or can, and have it oil itself without danger of running dry or ruining it like others. This costs you nothing extra—is worth \$50.00 more than separators built the other way. Remember, that I am an actual manufacturer—not a supply house, catalog house, dealer or jobber. You get the lowest direct factory price from me every time. Write me today for my big separator catalog and let me quote you prices that will astonish you.

Wm. Galloway, President
THE WILLIAM GALLOWAY COMPANY OF AMERICA
103 Galloway Station, Waterloo, Iowa

All Capacities From 200 to 950 Pounds Per Hour

All Gears Encased and Run in Bath of Oil Positive Insurance Against Wear No Oil Cup or Oil Holes No Danger From Getting Caught

Revolving Milk Tank Only 38 Inches High

Highest Crank

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Easiest to Clean

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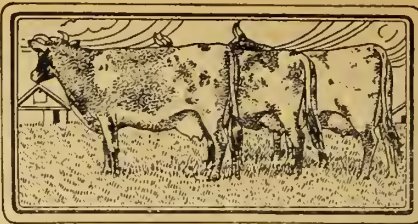
"OK"

Wm. Galloway, President

Friends—

SEND me your name—just tell me how many cows you milk, and I will write you my personal advice so you can try for 30 days free the best Galloway Bath-In-Oil Cream Separator to do your work—over 200 to 950 pounds capacity per hour, according to your needs.

Spend a cent now, this way, for a postal and you can just as easily save from \$25 to \$50 as not. Why pay more when for only \$33.50 and upward, I prepay the freight to you on 30 days' free trial—90 days' approval test, if you say so, and give you my 30 years' guarantee? You cannot get a better offer—to make you more money or save you more money on any separator made—and I will send you the best separator in the world today and you can prove it without any salesmen there to talk you over. Why not send Galloway



ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

RIPENING THE CREAM FOR MAKING BUTTER.

The difficulties and problems involved in the handling of cream for making butter are so numerous and complex, it is little wonder there is a lack of uniformity in the product. The trouble may be due to some one or more of the following causes: Improper handling of the milk before it is skimmed; using the utensils, such as pails, strainers and cans, for other purposes, and not cleaning them thoroughly before they are again used as receptacles for milk or cream; allowing the cream to stand in a warm, ill-ventilated room where it becomes tainted and acquires an off-flavor or becomes too sour.

It is out of the question to make the best grade of butter out of cream that has an off-flavor or is in any way tainted. Do not think because there is a small amount of cream it is not necessary to churn more than once a week, but aim to churn at least twice a week. On a number of farms where butter is made the churning days are Tuesday, Friday, and market day Saturday. It is not essential to follow this rule, but in order to secure a uniform grade of butter it is necessary to churn at least every third or fourth day.

The cold cream, when warmed by additional lots of fresh, warm cream, will sour quickly, and during the collecting period it should be kept as cold as possible with well water. Each new lot of cream should be cooled to that temperature before it is mixed with that previously saved. The following suggestion has been tried and found to work well: For holding the cream have a regular can fitted with a cover through which the handle of the stirrer may project. The second can should be smaller, but of sufficient size to hold all the cream of one skimming. Cool the cream in this can before pouring it into the large can, and it is a good plan to leave the cream in this until the following milking time; but the cooling should begin as soon as the separating is completed, in order to check souring. Stir the cream occasionally while it is cooling. Twenty-four hours before the time for churning, the cream can should be placed where the cream will warm to from 60 to 65 degrees, in summer, and 70 to 75 degrees in winter. Add the starter, using from one to two and a half gallons for every ten gallons of cream. In case the cream has not been kept cold enough to remain sweet, it will not be necessary to warm it for souring. After the starter is added the cream should be thoroughly stirred every hour until it has taken on a sufficient amount of acid for churning. This can be determined by an acid test or by the general appearance. It should be smooth and glossy with a clean acid flavor and aroma. Under favorable conditions, this development of acid is brought about in from six to eight hours. The cream should then be cooled to churning temperature and held for at least two hours in winter and from four to six hours in summer; otherwise, the butter will come soft and mushy with a correspondingly increased loss in the buttermilk.

The following method has been used with success: At the beginning of collecting period or when the first amount of cream is placed in the cream can, a small amount of starter is added to it, usually one-fourth of the amount of cream; in this case the development of acid is going on slowly during the time the cream is collected. No fresh cream should be added later than twelve hours before churning. If the cream is kept cold enough to check an over development of acid, the above method is satisfactory.

Frequently the maker of dairy butter experiences difficulty in completing

churning in the proper length of time. This is usually due to a viscous condition of the cream, caused by using milk from cows that are nearly dry; churning cream that is too thin or too rich in butter fat, at abnormal temperatures; overcrowding the capacity of the churn and churning the cream from the milk of one cow.

The value of the starters in making butter cannot be overestimated, either on the farm or in the well-equipped creamery. While butter can be made from sweet cream, it will not have the same flavor as butter made from sour cream. Souring of cream is most successful when controlled by means of a clean-flavored sour skim milk, or whole milk starter.

THE COW'S RATION.

To the Editor of The Homestead:

Buying grain to feed cows is a matter that takes considerable nerve at the present price on the market. It is a question, too, that takes a lot of thought and study. Many farmers are asking their neighbors this winter what they feed and how much. Farmers of today are putting more thought and study into just such questions as feed and feeding, whereas twenty years ago almost any way and any kind of feed would do. Our dairy schools are of the greatest possible benefit to the practical, everyday sort of a dairyman. Farmers are becoming more and more interested in the live subjects that directly concern them.

The great question of today with the dairyman is what to feed, and how much. It is a question that needs the closest attention. But how shall the man care for his cows under the farm conditions and conveniences that are at the command of the ordinary farmer? When the cow is on full feed of grass, little thought need be taken of her, but this is comparatively a small part of the year, and in fact some practice feeding something the entire year. I am of the opinion that a small amount of grain fed even on the flush of feed will repay the owner. In fact, some farmers practice feeding ensilage also, when on grass. When it comes a little later in the season the weather gets hot and the flies are troublesome. It is absolutely necessary to feed something in connection with pasturage to maintain anything like a full flow of milk. This is of the utmost importance to cows that have freshened in the spring, for if allowed to run down in milk at this time nothing that can be done later will bring them back. Some soiling crop should be fed until the cows go into winter quarters, or onto winter feed, and this should be as soon as cool nights come in the fall. Commence to give the cows winter care and feed, especially the cows that freshen in the fall before they shrink on their milk.

The ration for a cow should be governed, of course, according to the ability of the cow to assimilate her food and convert it into milk. I do not think it is possible to lay down any rules to go by, but feed your cows all they will take and make proper use of. Some contend that eight pounds of grain per day is enough for an average cow, but Mr. Gillett would not have obtained his great record if he had fed only that much. I would suggest as a rational way to feed a cow, to commence when she freshens, with five or six pounds a day, and after one week or perhaps ten days, begin to increase the feed and gradually do so as long as you can increase the flow of milk and are sure that she is properly digesting her food. In this way you cannot make any mistake. It always pays to feed the cow all that she can convert into milk without waste, provided you have a grain ration that balances up on a ratio of 1 to 5.5 or thereabouts. Take your farm-grown grains and buy enough wheat-bran, oil meal, cotton-

seed meal or some of the protein feeds to balance up your ration. What is a balanced ration? It is the proper amount of feed to sustain the animal for twenty-four hours and furnish the nutrients for her to do her work on. But the average farmer is not going to weigh each cow's milk each day and then weigh each cow's ration and make them exactly correspond. It makes some difference as to the individual animals; the breeds enter into this to a certain extent; the condition under which the cattle are kept, etc. To give the dairy cow a working ration, then, we must select such feeds as will contain the necessary amount of protein. Of the grains we raise, oats are the most valuable, barley next, and corn last, so far as the protein content is concerned. Of the fodders, alfalfa hay, clover, oat hay, oats cut when in the milk and cured into hay, red top, millet, timothy, fodder corn, cornstalks and silage. It is impossible to compound a ration of home-grown crops, with a sufficient amount of protein. And to get the best results, it is economy to buy some concentrated feed even at what may seem to be a high price. When it comes to roughage, clover hay is of itself a balanced ration according to the best authorities, but it is impossible to get best results from the cow, or even paying results when fed on roughage alone. And when we take our farm grains and make a mixture, or feed either alone, we throw our ration out of balance. Silage is very low in protein and yet is a very valuable food. In fact, silage has not as much protein, ton for ton, as oat straw. It is valuable because of its succulence, and as an aid to digestion. The silage aids in the digestion of everything the cow eats. We feed our ensilage and grain the first thing in the morning, then do our milking and separating, then at noon feed ten to fifteen pounds of clover and alfalfa hay. The same method is followed in the evening with ensilage and grain. Our ration for strictly fresh cows is one and one-half pounds of oil meal, one and one-half pounds of cottonseed meal, three pounds of corn meal and four pounds of first quality bran. We feed from thirty to forty pounds of ensilage per day in proportion to the cow. We do not depend on grass alone more than ninety days in the year. Then if we have any ensilage left over from winter we feed about twenty to twenty-five pounds per day. If we have no ensilage we sow a small plot of oats and peas and begin feeding as soon as it will do, cutting from the field and hauling to the pasture each day.

J. P. Fletcher.

DEVELOPING A DAIRY HERD FROM COMMON STOCK.

To the Editor of The Homestead:

There are five essential points that should be observed in the selection of cows for the development of a dairy herd from common stock. First, look for a cow with a large, long and capacious barrel, open and rather widely spaced in the ribs, which should spring well downward. Second, look for evidences of refinement as seen in a head inclining to long, a neck long and slim, crops somewhat sharp, and limbs inclining to fine. Third, look for the present evidences of good milk-giving capacity. Fourth, look for evidences of stamina as indicated by good width through the lower part of the chest, by an active carriage and a bright, full eye. Fifth, prefer the cow that has a nice, soft-handling hide and silky coat.

Choose sires from that dairy breed which may be preferred. The straight dairy breeds that stand in the front in this country are the Holstein, Ayrshire, Guernsey and Jersey, named probably in the order of relative size. The Dutch-Belted cattle, not very numerous, are much like the Holstein. The choice being made, don't change the breed from which the sire is chosen, and exercise great care in choosing.

The individual points of a good dairy sire cannot be given in detail here, but I will mention two of these, because they are in a sense indispensable. The first is the evidences of much stamina and bodily vigor. The second is an amplitude of soft skin on the underline in front of the testicles, distinctly traceable milk veins and miniature teats of good size and wide spacing.

The performance of the ancestry of

the bull should be examined. The more good performers in the upward line of his ancestry, the better. Good performance on the part of the ancestral dams means the giving of large quantities of milk, rich in quality and persistence in milk-giving for a long period.

The successive sires should be chosen from the same breed. If chosen from another breed, disturbing factors are chosen. They may not be apparent at first, but will be later. By adhering to the same line of breeding, the improvement should be rapid and continuous, at least for several generations, but the improvement will be less noticeable with each succeeding generation.

No matter what the line of breeding, where a high standard in dairy qualities is to be reached and maintained, there must be culling and discarding with every generation. Evidences of physical inferiority are sometimes so apparent at birth that the decision to discard such specimens may be made forthwith. As soon as it is known that the animals fall below the standard, the eye should not pity nor the hand spare.

Every man will, of course, set his own standard. If he fails to set a standard, he is not likely to reach high attainment in his work. Breeds differ in their capacity to produce milk, hence high grades of these will also differ. With no breed of dairy cattle or their grades, however, should the standard be set at less than 6,000 pounds of milk a year. W. H. Underwood.

DAIRY COW TROUBLES.

To the Editor of The Homestead:

There are many troubles in the dairy herd that require simple treatment and every farmer should be able to apply them without the aid of a veterinarian. Among such difficulties may be mentioned: Choking, bloat, depraved appetite, garget, cowpox, impaction and obstruction of teats. When a piece of beet or other obstruction becomes lodged in a cow's gullet, try first to relieve the situation by giving a little sweet oil or other lubricant and then working the object downward with the hand. If this cannot be done, pass a piece of lubricated garden hose gently down the gullet until the obstruction is reached. Then tap lightly and work the object down gradually.

To relieve bloat in a cow the simplest remedy is to place her in a stall with the front feet much higher than the hind ones and place in her mouth a bit made of a piece of broomstick or tarred rope. If this offers no relief the trocar should be used high up on the flank and well forward toward the ribs, striking downward, slightly inward and slightly forward. Follow with a physic made of one-half pound Epsom salts for each 500 pounds of live weight. This should be dissolved in water given in the form of a drench. To the solution may be added one cupful of blackstrap molasses and one tablespoonful ground ginger. In drenching a cow do not draw the head up and pour the whole drench down at once. This procedure invariably results in the medicine going directly into the lungs, causing mechanical pneumonia or bronchitis. Draw the head straight forward, slightly elevate the nose and give the medicine in small quantities, allowing the animal time to swallow. Thousands upon thousands of cows are killed every year through improper methods of drenching. Given free access to equal parts of salt and slacked lime when turned onto new and flush pastures, the cow will be much less liable to bloat than she would otherwise be. Prevention is far better than cure. A state of chronic bloat may indicate tuberculosis or the presence of foreign matter in the second stomach. Apply the tuberculin test. If there is no response the cow had better be sold for beef rather than take chances on her succumbing to some complication resulting from this chronic state of bloat.

The milking tube is one of the most dangerous instruments used on a dairy farm and yet it is sometimes necessary in relieving udder troubles. On account of the construction of the milking tube it is peculiarly adapted to the holding and transfer of disease germs. Before using it should be boiled, then baked. One of the most fruitful causes

Other Cream Separators Merely Discarded or Abandoned De Laval Inventions

It is interesting and instructive to know that nearly, if not quite, every cream separator that has ever been made, and certainly all that are being made at this time, are merely copies or imitations of some type of construction originally invented or developed by the De Laval Company, and either not used by it because of something more practical or else discarded and abandoned in the course of De Laval progress and utilization of later improvements.

As earlier patents have expired some of their features have one after another been taken up by different imitators, so that at all times, as is the case today, every separator made in the United States or elsewhere in the world, utilizes some type of construction originally owned and developed by the De Laval Company, though some of them have never been commercially used by the De Laval Company because of their inferiority to other types of construction used by it.

The De Laval Company has always been forging ahead, with its many years of experience and the best of experts and mechanics the whole world affords in its employ, so that before any expiring patent might permit the use of any feature of construction by imitators the De Laval Company had already gone so much beyond that type of construction that it was then old and out-of-date in the modern De Laval machines.

All cream separator inventions by others have been of immaterial details or variations, upon which patents have been taken, if at all, more for the sake of the name than by reason of any real value or usefulness attaching to them.

The first practical continuous flow centrifugal Cream Separator was the invention of Dr. Gustaf de Laval in 1878, the American patent application being filed July 31, 1879, and issuing as Letters Patent No. 247,804 October 4, 1881.

This was the original Cream Separator—of the "Hollow" or empty bowl type—and it has been followed from year to year by the various steps of cream separator improvement and development, all De Laval made or owned inventions, the American patent applications being filed and letters patent issued as follows:

The original hand Cream Separator of the "Bevel Gear" type; application filed October 2, 1886, issuing as Letters Patent No. 356,990 February 1, 1887.

The original hand Cream Separator of the "Spur Gear" type; application filed January 17, 1887, issuing as Letters Patent No. 368,328 August 16, 1887.

The original Steam Turbine-driven Cream Separator; application filed December 8, 1886, issuing as Letters Patent No. 379,690 March 20, 1888.

The original "Tubular" shaped "hollow" bowl Cream Separator; application filed April 19, 1886, issuing as Letters Patent No. 372,788 November 8, 1887.

The original "Disc" bowl Cream Separator; application filed May 12, 1890, issuing as Letters Patent No. 432,719 July 22, 1890.

The original vertical curved or interlocking "Blade" Cream Separator bowl, covered likewise by the application filed May 12, 1890, issuing as Letters Patent No. 432,719 July 22, 1890.

The original "Bottom Feed" Cream Separator bowl; application filed July 24, 1889, issuing as Letters Patent No. 445,066 January 20, 1891.

The original "Suspended" bowl Cream Separator; application filed August 21, 1893, issuing as Letters Patent No. 512,203 January 2, 1894.

The original "Star" or "Pineapple Cone" shaped series of cylinders Cream Separator bowl; application filed August 24, 1893, issuing as Letters Patent No. 521,722 June 19, 1894.

The original "Curved Disc" Cream Separator bowl; application filed January 18, 1905, issuing as Letters Patent No. 892,999 July 14, 1908.

The original "Split-Wing" Tubular Shaft Cream Separator bowl; application filed April 29, 1898, issuing as Letters Patent No. 640,358 January 2, 1900—which invention, with a series of later improvements, is the type of bowl construction used in the De Laval machines of today, and still covered by protecting patents which prevent its appropriation by would-be competitors.

The patents thus enumerated are but a few of the more important of the more than 500 original Cream Separator patents owned, controlled and developed by the De Laval Company during its thirty years of creation and development of the Cream Separator industry throughout the world. They are recited because they show in the most illustrative and conclusive manner possible De Laval originality and leadership from 1878 to the present day.

In addition to these patent-protected features, the De Laval machines have within two years been mechanically re-designed and re-constructed in every part, from top to bottom, so that the new and improved line of De Laval machines are today, even more than at any past period, fully ten years in advance of any other cream separator made.

These are the Rock-of-Gibraltar-like separator facts against which the mere "word claims" of would-be competitors fade away like the mists of night before the rays of the morning sun.

THE DE LAVAL SEPARATOR CO.

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An Attachment That Harrows While You Plow

The **Champion Pulverizer** is an attachment for riding plows which was invented by a farmer who wanted to save time in the Spring and Fall of the year when time is very valuable to the farmer, and also to do better harrowing by doing it at the right time.

The best time to harrow is right after the plow when the soil is soft and moist, and where the Champion Pulverizer is used, the surface of the soil is so thoroughly pulverized that all the open spaces are closed and the moisture is kept beneath the surface instead of being allowed to evaporate as is the case when the ordinary method of harrowing is used. Because of this retained moisture, any field where this attachment is used will produce better crops besides saving all the time ordinarily used in harrowing.

It Will Save Its Cost in Two Days' Time

It can be attached to any sulky or gang plow in ten minutes' time, does not add any side draft and can be operated by anyone who can operate the plow.

The blades are made of soft center, plow steel and scour perfectly. It is made in two sizes. No. 1 has five blades and is intended for use on sulky plows. No. 2 has nine blades and is intended for use on gang plows.

When size No. 2 is used on a sulky plow it does the work of two harrowings as it pulverizes each furrow twice. See illustration

Thousands of these Pulverizers will be used this Spring by farmers who used them last year and who, through their use, saved several days' time.

Write today for illustrated circular, prices and testimonials from users.

Union Transfer Company,
Box A Dubuque, Iowa.

Holds World's Record FOR CLEANEST SKIMMING

More prominent, practical dairymen and breeders use and endorse U. S. Separators than all other makes.

These many long-headed, business dairymen use U. S. Separators, not because some blaring advertisement has hypnotized them into buying, because it's "cheap." Sound reasoning of its many superior advantages only persuaded them. The best will always have the best.



THE 1910 INTERLOCKING STYLE U.S. CREAM SEPARATOR

is emphatically the Best and the only Separator to Buy. Because,

- 1st. It skims the cleanest.
- 2nd. It's built the strongest.
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The U. S. defeated all other separators at the Alaska-Yukon-Pacific Exposition, Seattle, on these five essential points and

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Beautiful Illustrated Catalogue No. 81 will give you all information.
VERMONT FARM MACHINE CO., Bellows Falls, Vt.

WHEN BUYING A CORN SHELLER

Insist on Clean Shelling, Thorough Separation, Large Capacity and Lasting Qualities. These are Distinctive Features of

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2-hole and 4-hole Custom and 2-hole Farmers' Positive Force-Feed Shellers

They have Chilled Working Parts and other points of strength and convenience. We make Horse Powers, Wood Saws, Huskers, Farm Trucks, Manure Spreaders, etc. We guarantee our Goodhue Wind Mills for five years.

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of garget is the bare cement floor. Cover the floor with boards and avoid the difficulty. When acute mammitis has developed it must be remembered that the first twenty-four hours decides the course of the trouble. Knead the udder and apply fomentations of hot water continuously. Keep right at it without a stop, for this is the price of success. Unless relieved in twenty-four hours the udder will be permanently ruined although the cow may fully regain its health.

Cowpox is not at all difficult to control. It is contagious and is most commonly spread by the hands of the milker. An afflicted cow should be milked last, or better still, have a special milker. The udder and also the hands of the attendant should be bathed twice daily in a solution of one ounce hyposulphite of soda in one quart of warm water. When the scabs begin to come off, paint the parts with a mixture made of one ounce of glycerin and one dram tannic acid.

For impaction resulting from too heavy feeding upon coarse, dry, innutritious feed or excess of grain when animal accidentally gains access to feed bin, add ten drops croton oil to the usual physic and in an hour or two follow with one to one and one-half pints of castor oil or raw linseed oil.

When tips of teats become sore and clogged they should be opened with a teat bistoury, then soaked thoroughly in a saturated solution of boracic acid and the openings kept dilated with lead dilators until well healed. In very persistent cases it may be necessary to wash the tips of teats with tincture of iodine.

Subscriber.

CARE OF CREAM.

As soon as the cream is separated, it should be cooled to the temperature of the well water. Stir occasionally while cooling in a loosely covered can. Never mix warm cream with cold, but cool each skimming before mixing with the cream already on hand.

Deliver the cream at least three or four times a week in summer and two or three times a week in winter. Do not think because it is sweet that it is in good condition and need not be delivered.

The best cream is usually received when the farmer delivers it himself, and when each farmer's cream is delivered at the creamery or shipping station in separate cans. During transportation the cans should be protected with a cover, a wet blanket in summer and a dry one in winter. If the cream is gathered by a cream hauler and your cream is mixed with your neighbors', see that it is thoroughly stirred before a small sample is taken for testing.

Most farmers would deliver a better grade of cream if they had a suitable place for keeping it until it is delivered. No one should attempt to keep the cream in the cellar or in a large tank of water where the daily pumping is not sufficient to keep it cool. If a suitable place cannot be built in a well-constructed milk house, the following arrangement answers the purpose quite well.

Caring for the cream at the proper time by any of the methods given below will result in very little souring at the end of two days:

Make a small water-tight box of two-inch material and of sufficient size to hold all the cream cans necessary in handling the cream. This box should have a tight-fitting cover, and be divided into sections by means of rods which will prevent single cans from upsetting when left alone in the tank. The best place for this tank is in the milk house. It may be placed between the well pump and the stock watering tank, and in that case another box or small house should be built over it for protection. All the water pumped for the stock should flow through this tank, the inlet discharging near the bottom, which will force all the warm water out first. The overflow pipe should have one-half inch larger diameter than the inlet in order that the water may be freely carried off. The water in the tank should be of sufficient depth to immerse the cans within two inches of the top. Another place that would be suitable for holding cream could be built inside the watering tank, or an ordinary empty kerosene barrel may answer the purpose. Burn out the oil and bore holes for the

water inlet and outlet between the second and third hoops from the top. Make connections the same as for the box, but be sure the inlet water pipe is extended nearly to the bottom. It is a good plan to bore one-inch holes between the first and second hoops from the top and place rods through them, so the cans will not float when partly filled. Shelter this barrel the same as you would the box, remembering to change the water in the box or barrel often enough to have it reasonably cold, so that the cream may be kept at nearly the same temperature as the water from the well.—(Farmers' Bulletin.)

A WONDERFUL PRODUCER OF HUMAN FOOD.

To the Editor of The Homestead:

A Holstein cow owned by the dairy department of the University of Missouri in one year produced more human food in her milk than is contained in the complete carcasses of four steers weighing 1,250 pounds each. This statement, impossible as it seems, is not only true, but does not even do justice to the cow. The solids in the milk which are completely digested and used by the body are counted against the entire carcass of the steer which is only in part edible.

The cow that performed this feat of producing the equivalent of four steers is Princess Carlotta. In the year she produced 18,405 pounds of milk. Below is given the amount of proteids, fat, sugar, and ash contained in this milk and the amount of the same substances found by Dr. P. F. Trowbridge in an analysis made of the carcass of a fat steer weighing 1,250 pounds:

	18,405 lbs. milk	1,250 lbs. milk
Proteid	552 lbs.	172 lbs.
Fat	618 "	373 "
Sugar	920 "	43 "
Ash	128 "	43 "

Total ... 2,218 lbs. 548 lbs.

The total amount of dry matter in the milk was 2,218 pounds, all of which is edible and digestible.

The steer, with a live weight of 1,250 pounds, contained 56 per cent of water in the carcass, leaving a total of 548 pounds of dry matter. In this dry matter of the steer is included hair and hide, bones and tendons, organs of digestion and respiration; in fact, the entire animal, a considerable portion of which is not edible. The analysis of the steer's carcass was made from samples taken after grinding up together one-half of the complete carcass and is not in any sense an estimation of the composition of the carcass.

Princess Carlotta produced proteids sufficient for more than three steers; nearly fat enough for two; ash enough to build the skeletons for three, and in addition produced 920 pounds of milk sugar worth as much per pound for food as ordinary sugar.

These figures show the remarkable efficiency of the cow as a producer of human food. It is because of this economical use of food that the dairy cow and not the steer is kept on high-priced lands. When land is cheap and feed abundant the meat-producing animals predominate, but when the land becomes high in value and feed expensive the farmer turns to the dairy cow.

C. H. Eckles.

Prof. Dairy Husb., Univ. of Mo.

SKIM-MILK BUTTERMILK.

The buttermilk obtained in the old household methods of butter making was highly prized by many as a refreshing and healthful beverage and was considered of especial value in case of persons suffering from fevers. The modern methods of dairying now generally used yield no such product as the old-time buttermilk. There has been, however, a recent revival of interest in the nutritive and hygienic properties of buttermilk, and as a result there is an increased demand for buttermilk of good flavor and wholesome and uniform quality. Attempts have been made to find a process of preparing under modern conditions of dairying a product which would meet these requirements.

John Michels, of the North Carolina Experiment Station, describes in a bulletin of that station a method which he has successfully used for this purpose. This is in brief as follows:

As soon as the skim milk leaves the separator, whole milk is added to it at the rate of one gallon to twenty gal-

lons of skim milk. This gives the mixture a fat content which approximates that of natural buttermilk. A large quantity of pure culture of lactic-acid bacteria (starter) is next added and the temperature brought to 70 degrees F. Enough culture is added to curdle the skim milk in about six hours at the temperature mentioned. When a temperature above 70 degrees F. is employed, there is a tendency for the skim milk to "whey off" after it has curdled.

When thoroughly curdled the skim milk is placed in a churn and churned for forty minutes in the same way that cream is in making butter. The churning process thoroughly breaks up the curd clots, resulting in a smooth, thick liquid which cannot be distinguished from ordinary good buttermilk.

Immediately after the buttermilk leaves the churn the temperature should be reduced below 50 degrees F. to prevent further development of acidity. Ordinary milk and cream coolers with enlarged holes in the distributing receptacle will answer very satisfactorily.

After cooling, the buttermilk should be run through a strainer consisting of one thickness of cheesecloth to remove any unbroken curd clots. As soon as strained the buttermilk is bottled or put in tin cans holding from one to five gallons, after which it is placed in the refrigerator, where it should be held at a temperature of 40 to 45 degrees F. until ready for delivery.

Buttermilk made by this process was sold to drug stores, lunch counters and hotels at five cents per quart in quart bottles and fifteen cents per gallon in cans holding from one to five gallons.

In the larger cities buttermilk sells at a considerably higher price than given above. Thus, for example, the writer found that buttermilk during the past summer was furnished in bulk in Norfolk at from twenty-five to thirty cents per gallon. Considering both its food and tonic properties, buttermilk may be considered cheap at ten cents per quart.

In trying to sell skim-milk buttermilk, it is necessary, in the first place, to explain that this product when made as described above is almost identical with the highest grade of natural buttermilk, both in composition and physical properties, and therefore in palatability and wholesomeness. Indeed, it is not thought possible under average conditions to secure natural buttermilk of as uniform a quality or of as fine a flavor as can be obtained from skim milk. When these facts are explained to dealers and consumers, any prejudice which might exist against this artificial product will gradually disappear.

AIR AS A FACTOR IN DISEASE.

To the Editor of The Homestead:

It is hardly necessary to dwell upon the necessity of pure air. We have only to remember that it is an urgent and regular necessity. One can do without food and water for hours or even days without fatal results, but if deprived of air for a few seconds the conditions become dangerous. The building up and tearing down of tissues within the body is constantly going on and the supply of oxygen and removal of carbon dioxide gas must not in the least be interfered with.

Air is a mechanical mixture of three principal gases: Oxygen, nitrogen and carbon dioxide gas, with traces of ozone ammonia organic matter, mineral salts and a variable amount of watery vapor, the amount of the latter depending upon the temperature and locality. The volumetric composition of air is 78 per cent nitrogen, 20.96 per cent oxygen, 1 per cent argon and 4 per cent carbon dioxide.

Nitrogen constitutes about four-fifths of the atmosphere. It is an indifferent gas and seems to serve chiefly as a diluent for the oxygen.

Oxygen constitutes about one-fifth of the atmosphere. It is the active and essential gas which supports life. Any reduction from the amount normally present constitutes the most serious deprivation. In a closed state the percentage of oxygen has been known to become as low as 20.39 per cent. When the percentage of oxygen is as low as 20.60 the air is very foul.

Carbon dioxide varies between .03 and .05 parts per 100, but varies still more at different elevations and at different times of the year. The proportion is generally greatest at the surface of the earth and decreases as the elevation increases. It is least in winter and greatest in the fall; less during the day than at night; less on the seacoast than inland; less on windy days than on calm. It decreases considerably with rainfall; slightly with fall of snow, and increases considerably during foggy weather. The rela-

tive proportion of carbon dioxide and oxygen is maintained by the conjoined action of the animal and vegetable kingdom. In the animal body oxygen is constantly being utilized in metabolism with the production of carbon dioxide. There are certain plants which take up carbon dioxide from the atmosphere, utilize the carbon and return the oxygen free to the atmosphere. Ammonia is found in minute places not as a normal constituent, but as one of the products of the decomposition of nitrogenous substances. Organic and other suspended matter as fungi, bacteria of many kinds, spores, vegetable debris, pollen of plants, and such inorganic matter as fine particles of sand, dust, etc. There are more organisms in the air in summer than in winter; more in the inhabited places than uninhabited; more before a shower than after one.

One of the foremost effects of an impure atmosphere is a lowering of the vitality and thus decreasing the bodily resistance. Diseases progress more easily, rapidly and fatally and have a tendency to spread from animal to animal in an impure atmosphere. Animals kept under such conditions are predisposed to the infectious diseases generally. Colds and pneumonia are very common.

Augustus Forrest.

GOOD ROADS IN GERMANY.

The construction and maintenance of streets and roads is a matter of great public interest in Germany. From every standpoint—military, agricultural, commercial, hygienic, economic—the question of good roads is deemed of the utmost importance. Every encouragement is given to those experimenting along these lines and many improvements originating there have been adopted in other parts of the world. One of the matters now receiving the special attention of German scientists, highway authorities and engineers is the treatment of streets and roads for the purpose of obviating dust and mud.

While the modern paving of streets and the more solid construction of roads resulting from the use of macadam and other hard materials have largely eliminated the mud and the consequent clogging of traffic in periods succeeding heavy rainfalls, the dust has still remained to plague the traveler and to menace the public health by the absorption and distribution of bacteria.

Various combinations of oil and salt have been used in Germany to sprinkle the streets and roads, but as the effect was only transitory this method was not considered a solution of the problem of maintaining hard, clean and sanitary highways. Experiments have also been made with coal tar, some of these preparations applied to the surface of roads have kept the dust settled for longer periods of time than by former methods. Although recognized as an improvement, the expense connected with the employment of these preparations has stood as an objection to their general use, and experiments were continued for the purpose of producing a more ideal and cheaper composition for treating roads.

One of the results of these experiments is the preparation of the substance mentioned, apokoin, which has been pronounced by some technical observers the best and most lasting road covering yet brought out. The merits of this process were discussed at the recent convention of scientists and physicians held in Salzburg, Germany. The process is secret, but it is known that coal tar oils are the main ingredients. The heavy, penetrating qualities of the oils give great binding power to the composition. This together with the pressure applied produces a formation ironlike in its consistency, making the surface of the road, it is claimed, so smooth and hard that snow and rain water cannot penetrate.—Consular Report.

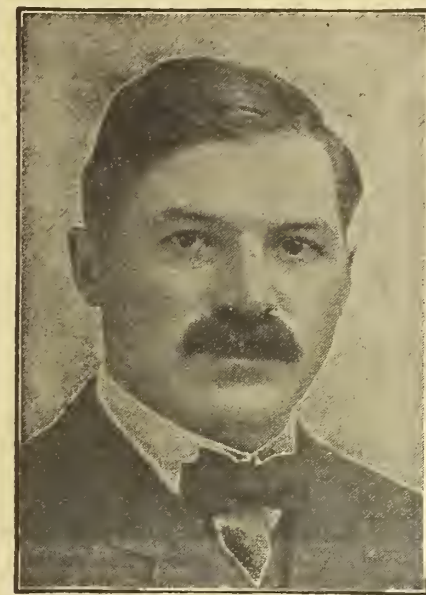
There will be an effort made during the present session of congress to have the oleomargarine law repealed. This law, as it now stands, provides for a tax of ten cents per pound on colored oleo and one-fourth of one cent per pound on uncolored oleo. The chief fight is on the colored product because it can easily be palmed off on the consumer as genuine butter.

Ask your neighbor to subscribe for The Homestead.

SILOS

EARLY BUYERS
SAVE MONEY
EARN ITS COST BEFORE
MONEY IS PAID

HOW? KALAMAZOO SILESCO
MICHIGAN



DR. DAVID ROBERTS
Cattle Specialist

Wisconsin State Veterinarian, 1906-7-8

To Dr. David Roberts is due a full measure of credit for the advancement of the live stock industry of this country.

In addition to his liberal contribution to the many farm publications, his twenty years practice as a veterinarian, and his three years service as State Veterinarian of Wisconsin, he has devoted the greater portion of his time to the education of the stock owners through his many public meetings throughout the country, without remuneration. His common-sense, practical, heart-to-heart talks have gained for him a place in the hearts of the stock owners, and a position of authority with them.

Every owner and lover of stock should not fail to hear him when he speaks in their community.

Dr. Roberts urges all stock owners who have his book, to read it, not only once, but also to make a practice of studying some one disease or ailment each day, and in this way become thoroughly familiar with the proper handling of stock.

The Doctor will send any owner of live stock who has not already received one, a copy of his book, The Practical Home Veterinarian. In this book he gives the symptoms, and describes fully and tells how to treat the diseases every stock owner should know about. These are some of the diseases he urges every stock owner to learn all about:

- Tuberculosis,
- Contagious Abortion,
- Retention of Afterbirth,
- Barneness,
- Paralysis of Bowels,
- Calf Cholera,
- Milk Fever,
- Hard Milkers,
- Bloody Milk,
- Caked Udder,
- Colic,
- Lump Jaw,
- Black Leg,
- Distemper,
- Navel Disease,
- Intestinal Worms.

In addition to the book, every live stock owner who sends in the coupon promptly will receive the Cattle Specialist, a paper devoted to cattle breeding, feeding and treatment, free for one year.

Dr. David Roberts Veterinary Co., 124 Grand Ave., Waukegan, Ill.

I own... cows... horses... hogs... sheep... poultry... swine... and I want the "Practical Home Veterinarian" and "Cattle Specialist" for one year.

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Minneapolis Panel Shrinkproof SILO

We can't begin to tell you all its good points or what they all mean to a farmer and stockman in this small space—but take our word for it, every one of them means a handful of dollars to you. So in your own interest write us NOW before you forget, and ask us to send you our book on Silos, Silage and Economical Feeding. Don't think of deciding on ANY silo until you have read this book and done some thinking about what our exclusive points of merit mean to you.

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SOME HOG STATISTICS.

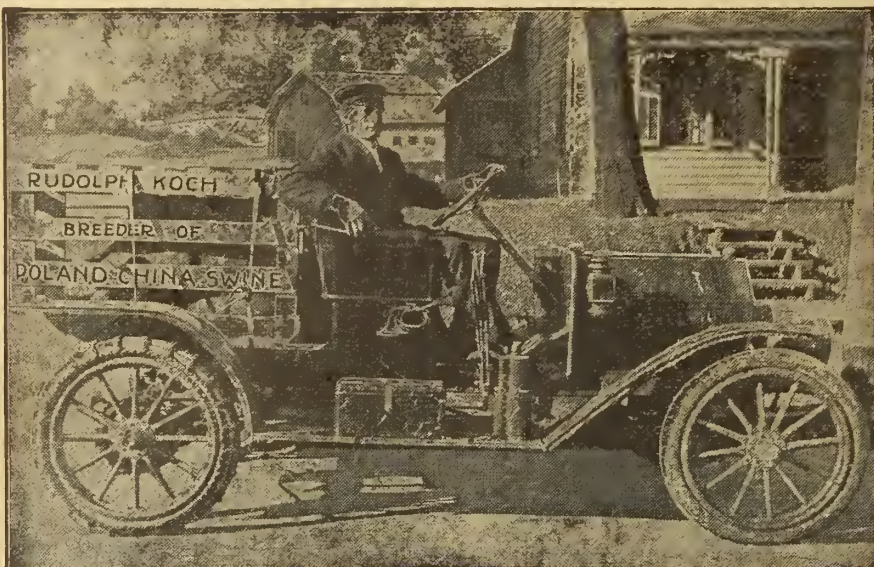
According to the statistics sent out from the office of the secretary of agriculture of the United States, there was, on the 1st day of January, 1910, a shortage of 6,345,000 as compared with the same date in 1909. It would seem that the decrease is common through the hog-producing states. In Iowa, which in 1909 lead all the states with 7,908,000 hogs, the number in 1910 has been reduced to 6,485,000. Illinois comes second in numbers with 3,772,000, then Texas with 3,205,000, Nebraska with 3,201,000. Other states which have 1,000,000 head or over are given in the following order: Missouri, Indiana, Ohio, Kansas, Wisconsin, Georgia, Oklahoma, North Carolina, Mississippi, Michigan, Tennessee and Alabama. Wyoming holds the tail end of the procession with only 21,000; Delaware and Connecticut have respectively 46,000 and 47,000.

In the matter of price Rhode Island and Connecticut head the list with an average valuation of \$12.50 per head, then follow: New Jersey, \$12 per head; Wisconsin, \$11.80; Maine, New Hampshire, Massachusetts, New York, Minnesota, \$11.50; Iowa, \$11.30; South Dakota, \$11.10; North Dakota and Nebraska, \$11; Illinois, \$10.90; Ohio, \$10.70; Vermont, Indiana and Kansas, \$10; Montana, \$10.10; Michigan, \$10.50. All others were below the \$10 figure. Arkansas established the lowest valuation of \$4.80. The average valuation for the United States was \$9.14 per head, as against \$6.55 on the 1st of January, 1909, and \$6.46 the average for a ten-year period. The total valuation of the entire hogs of the United States on the 1st of January was quoted \$436,603,000. Iowa headed the list in values with a total of \$73,280,000. The next nearest competitor in total was Illinois with \$41,115,000. The five states next in order in the matter of total values are Nebraska with \$35,211,000, Indiana \$25,780,000, Ohio \$21,903,000, Missouri \$21,441,000, Texas \$21,153,000. The lowest total valuation was in

Idaho where only \$135,000 worth of hogs were found.

The information is also given out that the entire hog supply in the world is less than 150,000,000 head. After the United States, which supplies more than one-third of this

the purpose. He has learned differently now. There was a small crowd of buyers present; farmers within two miles of his place didn't even know he was to have a sale. His chattels sold at a comparatively low price, and the total amount received from the



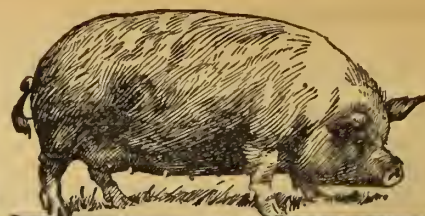
The above photograph illustrates a practical use to which the automobile can be put by a breeder, and demonstrates most forcibly that the automobile on the farm has come to stay. It is probably safe to say that it will soon be considered a necessity on every modern farm. Mr. Koch, a breeder of Poland China swine, at Eldridge, Iowa, uses his machine, as shown above, for delivering hogs in shipping crates at Moline, nine miles away, going through mud that it would seem impossible to most people for any sort of a vehicle. Mr. Koch says he bought his machine a year ago and has not spent a cent for repairs. The Moline is manufactured by the Moline Automobile Company, of East Moline, Ill. See advertisement on page 5.

number, Germany follows second with 22,000,000. Russia has about 11,000,000, France 7,000,000, Hungary 7,000,000, Austria 5,000,000, with no other country producing as many as the last number named.

An Iowa farmer recently held a public sale. He had no use for the newspapers as an advertising medium. He thought a few sale bills would answer

sale was several hundred dollars less than a neighbor received who had spent a few dollars for newspaper space. He saved probably \$2 or \$3 on advertising and lost scores of times \$3.

"The price of meat is so high," a country paper says, "that city people could eat horse meat with a relish." Probably the relish eaten with horse steak would be horseradish.



HOGS AT \$8 ON FOOT

Hogs on foot sold in Chicago and other markets this winter at \$8.00 per 100 lbs. The price of hogs and corn are both good. At any price, hogs are worth too much to allow disease to kill them. "I have fed



LEE'S HOG REMEDY

for years and have not lost a hog," says James Howe, of Missouri. Two dollars for 25 lb. pail, or \$6 for 100 lb. box, makes this medicine an investment profitable beyond estimating.

80 per cent. of the 60 million Hogs in the U. S. are raised in 10 States. Think what the health of your hogs means to the balance of the country, and the price you get for them means to you. Decide for hog health to-day.

Our other Stock Remedies—Lee's Stock Tonic; Lee's Best Conditioner; Flyo-Curo; Lee's Dip. Ask for catalog.

GEO. H. LEE CO.,
1173 Harney St., Omaha, Neb.

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LUMBER DIRECT FROM OUR FOREST TO YOUR FARM-

That's a Money Making, Money Saving Proposition for you.

You get lumber that is **up to grade**, that has not been picked over and re-sorted a dozen times. You cut out all jobbers, dealers and catalog-house profits and get your building material at lowest wholesale price.

We are the largest manufacturers and dealers in lumber, mill work, shingles, roofing and other building materials in the Middle West. We have been in business right here in Dubuque for 30 years--during that time we have saved thousands and thousands of dollars for our customers and have never failed to satisfy them in the matter of grades. Don't take our word for it—we will give you a long list of regular customers that you can write to.

If you want to make a saving of from 10% to 25% on building material, and get a better grade besides, order from us. Come to Dubuque and see for yourself how much better our lumber runs, grade for grade, than that offered you at your local yard. We will pay your round trip fare and entertain you while you are here. The trip won't cost you a cent if you order as much as one car-load. We have only one price, whether you buy ten feet or ten million feet.

Our profit is so small that we can't afford to make this offer of a free trip on small orders, but we can save you money on small quantities, and we guarantee that you will be satisfied with our grading when you order by mail. If you live within 300 miles of Dubuque, the saving you will make by ordering of us will more than pay the freight. You'll save enough on a \$10 lumber bill to be worth while and you will profit still further by securing better material.

If you use roofing, our **DUX-BAK RUBBER ROOFING** will give you perfect satisfaction. It is the result of forty years' experience in the manufacture of ready roofing. It is made of the very best material. The body is pure wool felt. It contains no tar or other substance that will crack, run or peel. It is easily laid on steep or flat roofs, and over old shingles. It is water, wind and spark proof. It does not color or taint the rain water. It is absolutely guaranteed.

Can you beat these prices?

1 ply, 35 lbs. to the square, only \$1.15 per square.	Guaranteed for five years.
2 ply, 45 lbs. to the square, only \$1.40 per square.	Guaranteed for ten years.
3 ply, 55 lbs. to the square, only \$1.70 per square.	Guaranteed for fifteen years.

Cement and large headed nails are packed in the center of each roll. You ought to see this roofing.

We will send you samples. Now don't hesitate to send us **small orders as well as large orders.** It's worth your while.

Write us today for special prices.

PETER J. SEIPPEL LUMBER CO.

Dept. 10 Dubuque, Iowa.

SAW MILL

DAY BY DAY

AGRICOLA

Our county fair officials met the other day to outline the course of action for the next fair. One feature was dropped as if it were a hot potato—the baby show.

Have you ordered your garden seeds yet? It is now time to do this, and there are reliable seedsmen who tell the truth about their seeds in an enthusiastic way. Some of them exaggerate shamelessly, and it is well to let such seedsmen alone.

I see that a bill was introduced in the United States Senate designed to prevent objectionable matter from being shipped into a sovereign state from another state. The "objectionable matter" in mind is catalog house goods.

The feathers of our White Holland turkeys netted forty cents per turkey. Several years ago \$1 was a good price for turkeys, feathers and all. This was when poultry was cheap and Mammoth Bronze the variety of turkey kept. With dressed turkeys twenty-four cents per pound wholesale and the feathers adding forty cents to the value of each turkey all that is necessary to make lots of money is to raise a large number of turkeys, but this is one of the things which is easier said than done.

There was no panic created by the anti-meat-eating boycott. Two things may have worked together to prevent. The railroads found themselves "short" in cars, or pretended to, and so farmers could not rush their stock to market and cause a glut, and the packers could put in cold storage their temporary surplus and not be obliged to sell it at a loss.

The farmers have not been bankrupted by the boycott, but on the other hand the daily market report is so good that they feel like taking it into the parlor every morning and "trying it on the piano."

What would you think of a dairy woman who did not clean and wash her churn and keep it sweet and free from refuse? This is the question a patent medicine man asks, and then he says that the stomach is a human churn and needs cleansing to keep it sweet and in good order, and to accomplish this, take my—

All the premises in this are true and irrefutable. The conclusion is subject to amendment only as to the "medicine" to take. The best medicine known is called "agua" in drug store term. The common name is water. Slush out the stomach and the whole alimentary canal with water, and do it every day.

The quickest way to "catch cold" is to huddle listlessly around a hot stove in a poorly-ventilated room. Those arctic explorers caught furious colds and sneezed and snuffled and wept the moment they reached civilization on their return home—that is, from one-third to one-half of them did—and yet not one of either party caught a cold during the whole of their sojourn in the arctic regions.

Commenting upon this, Dr. Woods Hutchinson says: "The testimony as to the impossibility of catching cold in the open becomes more overwhelming and unanimous every day."

Never say mean things of your neighbor. It is the forerunner of doing mean things.

He who kills time by loafing on the streets kills his better nature just as surely. And what injures the moral part of man is also harmful to the physical part. Be not in haste to retire from the farm and move to town to live in idleness. Work is absolutely necessary to most human beings, not only to preserve health, but to preserve integrity.

Lead the boys to choose good men for their heroes. The boy who pores over yellow novels is led to bad

deeds, and the boy who has noble heroes in his thoughts will himself grow noble.

D. K. Pearsons, the multi-millionaire, has not eaten any meat for four years, and he sleeps twelve hours every day. If every human being followed that example what would hogs be worth?

So far it is unproved that any possible method of propagating potatoes will prevent the variety from "running out," but on the contrary it is not proven that careful selection of the right type from the hill at digging time will not keep the variety "just as good as ever" indefinitely. More time is needed to tell the story.

Light gasoline engines are now in

market for mounting on grain harvesters. All the horses have to do is to haul the machine and the engine does the rest. One great advantage reported is that in heavy down grain the horses can be slowed up and the engine will keep puffing right along and handle the grain with ease, but

when the horses are made to run the binding and elevating machinery, slowing up leads to clogging, and if you don't slow up you overwork the horses. Gasoline engines have been taught to separate milk, churn, wash clothes, milk the cows, saw wood and nearly everything but feed the baby.

Don't buy till you see the

Murray

"Style Book of Vehicles—Harness"

Then you will know which is best—and costs least. Murray invites comparison of all catalogs. We are the oldest big designers in the country. We have the best equipment, use only the finest materials, employ only the most careful workmen, produce large quantities, and sell direct to the consumer. Consequently we can undersell others quality for quality. Save money, get the most for your money, send for the largest, finest and most complete catalog of vehicles and harness ever issued. Our complete lines are fully described and illustrated and is a mine of valuable information for vehicle or harness buyers. We pay the postage. FREE to you. THE WILBER H. MURRAY MFG. CO., 372-378 E. 5th St., Cincinnati, O.



Sold on trial
Guaranteed
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A LEVERLESS RIDING CULTIVATOR

Here's what every farmer has been longing for—a Riding Cultivator with all of the good points of the best walking cultivator you ever saw and with all the bad points and hard work left out.

Study carefully the illustration below. Note that in the "Perfection" there are no confusing levers, chains, trips, gewgaws or contraptions of any kind. You don't have to be an engineer or an acrobat to run it. It's as simple as ABC—and is as effective and easy to work as it is simple.

On the "Perfection" the seat does not go down as the gangs come up, so there is never any danger of knocking your teeth out with your knees from the seat "see-sawing" up and down, as it does on other leverless cultivators. Our simple method of balancing is

what makes it possible to use the "Perfection" as a walking cultivator at will. Simply turn forward the seat when you want to walk.

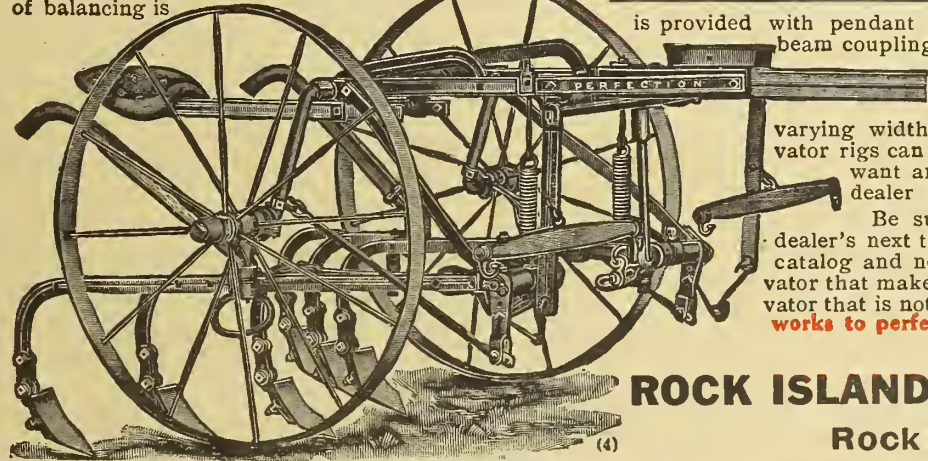
The perfect balance of the "Perfection" with the seat steady makes it "easy as loafing" to jump the stray hills and duck in and out from the row, cutting out every weed. Just a touch of the handles swings the shovels where you want them. The stirrups for the feet enable you to work as deep or as shallow as you please. Every farmer who has tried this cultivator says: "It's the best and handiest cultivator ever made." The

Rock Island

"Perfection" Cultivator

is provided with pendant hitch—draft applied direct to arm of beam couplings, and shovels will always penetrate to an even depth, even in the hardest soil. Axles are equipped with dust proof boxes, and telescope to give varying widths of tread. Almost any style cultivator rigs can be furnished. Simply say what you want and you can have it. The leading dealer in each locality is our agent.

Be sure to see the "Perfection" at your dealer's next time you are in town. Or send for catalog and nearest dealer's name. Own a cultivator that makes the day's work lighter. A cultivator that is not only "Perfection" in name, but that works to perfection!



ROCK ISLAND PLOW COMPANY
Rock Island, Ill.

FREE To You—Let Me Pay Postage On My

Big Book To Your Home and Save You \$26⁵⁰



H. C. PHELPS,
Manufacturer of Split
Hickory Vehicles

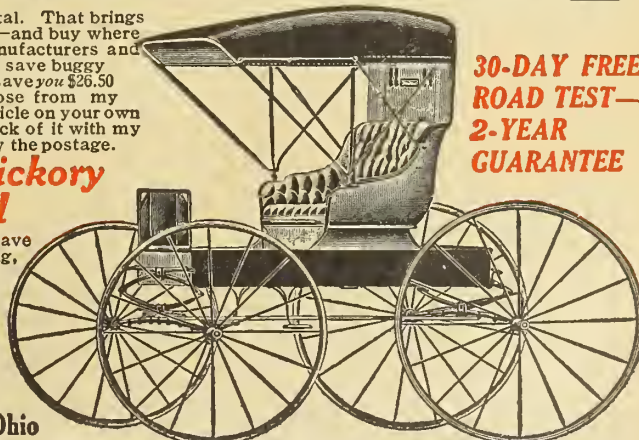
Just send me your name and address on a postal. That brings you my book and prices. Then compare values—and buy where you get the biggest bargain. We are actual manufacturers and sell direct to you. You save all middle profits. I save buggy buyers thousands of dollars each year. Let me save you \$26.50 to \$40 this year on the buggy you want. Choose from my book of 125 styles. Try any Split Hickory Vehicle on your own roads for 30 days. If you keep it, I'll stand back of it with my 2 years' guarantee. Get my book first—I'll pay the postage.

See My 1910 Split Hickory

Auto-Seat Special

This is my 1910 leader—my best bargain for you. I save you at least \$26.50 on it. It is the most dashing, stylish buggy made. Has 125 special features—laminated auto-seats; easy springs; lots of leg-room; extra long waterproof top; Sheldon springs—and everything else needed for style, service and satisfaction. See it in my book—in full colors. It's just a hint of what I save you on any vehicle you buy from me. Write that postal now—send it by next mail. Don't buy a buggy till you get my color-illustrated book.

Ohio Carriage Mfg. Company, Station 31, Columbus, Ohio



30-DAY FREE
ROAD TEST—
2-YEAR
GUARANTEE

Get My Price—FIRST

Freight Prepaid—30 Days' Free Trial



I want to quote you a price that will cause you to sit right up and take notice on the grandest, best plow that ever turned a furrow. I can do it because we are the actual manufacturers, and sell direct to you. We don't have traveling salesmen—don't sell to dealers nor even to catalogue houses. You save those expenses and profits when you order direct from our factory. But that isn't all. You get a better plow. I say to you that the

MONMOUTH Sulky

or Gang PLOW

will prove easier for you to handle, easier on your horses and will do your work better than any plow you can buy, regardless of price. Tell you why the draft is lighter. It's positively the only plow that actually carries the beams on top of the frame. No pressure on bottom of furrow—no friction against bank of land, can't be, for there's no land side. Don't need any. The plows ride on the wheels—wheels, frame and driver can't ride on the plows as they do sometimes with other makes. Besides, we have a Direct Beam Hitch, Single Ball and Horse Lift; and "Point First" action, which is easiest and quickest going into and coming out of the ground. I'll give you a chance to prove every one of these claims, and we'll pay the "damages"—freight both ways—if we "fall down" in a single assertion. I want to tell you all about these plows and our other implements—Walking Plows, Cultivators, Tongueless Disc Harrows, Spike Tooth Harrows, Harrow Carts, Harrow Attachments for Plows, and Farm Gates—all sold at factory prices. Satisfaction guaranteed. Just write a postal for our complete catalog. It's free. Write to me, The Plow Man, with



Get My
Free
Book

Lightest
Draft
Plow
Made

MONMOUTH PLOW CO., 515 South Main Street, Monmouth, Illinois

Let Me Send You a Queen

I am very much in earnest. I want to send you a Queen Incubator to try. If you'll spend a cent in writing for my Incubator Book, I'll spend many times that much in furnishing you to you.

If you'll say you want to try a "Queen," I'll say "Go ahead and use it three months, and here it goes, freight prepaid."

Then I'll go on and say, "Examine the Queen—compare it with all other makes—consider its highest percentage of hatches and the lusty, healthy chicks you get—how perfectly it runs and regulates itself—the oil expense it saves you—its absolute safety—and the 5 year guarantee I give you. You can't get Queen results with anything but a Queen. I want you to learn this at my risk."

That's the fairest, squarest offer I know how to make. Send the postal now that gets my Catalog and Liberal Plan.

WICKSTROM, QUEEN INCUBATOR MAN,
Box 10, LINCOLN, NEB.

\$7.55
140-Egg
Incubator



We Ship quick from St. Paul Kansas City Buffalo or Racine

Ever Made

\$4.50 Buys the Best Brooder

Both Incubator and Brooder, ordered together, cost but \$11.50. Freight Prepaid. The Belle City Incubator has double walls and dead air space all over, copper tank, hot-water heat, self-regulator, thermometer, egg tester, safety lamp, nursery, high legs, double door. The Belle City Brooder is the only double-walled brooder made, hot-water heat, platform, metal lamp. No machines at any price are better. Write for our book today, or send the price now under our guarantee and save waiting.

Satisfaction Guaranteed

Brooder Belle City Incubator Co., Box 52, Racine, Wis.

Victor Incubators and Brooders



Quality tells in the batches. Right principles, right materials, right building, right ventilation, right regulation, means more chicks and greater profit. Victor quality costs but little more and the difference on one or two hatches more than pays it. Write us first. Our book "About Incubators" will be sent free. It has important information for incubator buyers. GEO. ERTEL CO., 171 Kentucky St., Quincy, Ill.

125-Egg Mankato Incubator \$7.25

245-Egg \$9.50

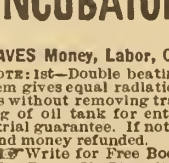
The high-grade batcher now down to bedrock price. Well built of best material. Has double walls, heavy copper hot-water tank and boiler, self-regulator, nursery, high legs, safety lamp, egg tester, thermometer, etc. None better at any price.

Sold direct from factory under binding guarantee and long-term trial. The result of 15 years' experience with incubators and raising poultry.

120-Chick Brooder \$3.75—240-Chick Brooder, \$4.50 Write for big free catalogue, or order direct from this ad.

MANKATO INCUBATOR CO., BOX 827 MANKATO, MINN.

RAYO INCUBATOR



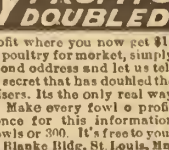
SAVES Money, Labor, Oil. NOTE: 1st—Double beating system gives equal radiation. 2nd—Turn eggs without removing tray. 3rd—One filling of oil tank for entire hatch. 70 day trial guarantee. If not as represented return and money refunded. Freight prepaid. Write for Free Book. The RAYO INCUBATOR CO., Burt St., Blair, Neb.

90% Hatches




from the Cypers—in every country and climate—for old-timers and beginners. For you, CYPERS INCUBATORS and Brooders are non-moisture, self-regulating, self-ventilating. Write for 160-page Catalog. Address nearest City: Cypers Incubator Co., Department 42 Buffalo, N. Y.; New York City; Chicago, Ill.; Boston, Mass.; Kansas City, Mo.; Oakland, Cal.

POULTRY PROFITS DOUBLED



If you want \$2 profit where you now get \$1, either from eggs or poultry for market, simply send us your name and address and let us tell you the real poultry secret that has doubled the profits of poultry raisers. It's the only real way to poultry success. Make every fowl a profit earner. Write at once for this information whether you have 3 fowls or 300. It's free to you. Blanks & Hawk Supply Co., 131 Blanks Bldg., St. Louis, Mo.

ON TRIAL 16 YEARS



Never found wanting. Don't experiment. Countless thousands of other poultry-raisers have made a success with THE SUCCESSFUL Incubator and Brooder. Anybody can operate them and make money. Let us prove it to you. Booklet, "Proper Care and Feeding of Chicks, Ducks, Turkeys," 10c. Poultry paper, 1 year, 25c. Free Catalog. Des Moines Incubator Co., 60 2nd St., Des Moines, Ia.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

SOME POINTS ON TURKEY RAISING.

To the Editor of The Homestead:

I am and always have been a fervent advocate of pure-bred stock. In fact that is my first recommendation. Still I do not wish to shoot over any one's head by claiming that profitable results cannot be obtained with barnyard stock as the foundation, for in fact I know that fairly good results can be had by so doing. However, in all cases where just common stock is to be the foundation, by all means use a pure-bred male to mate with them. Pure blood is always the stronger of the two and is sure to predominate in its transmission to the offspring. It is said the sire is half the flock and even if this were all that is true in regard to the mating up of the stock, it would be a good investment at that, but that only holds true when both sides are equal in blood lines. When all improvement is expected from the sire, as would be the case where pure blood is only on the side of the sire, the sire is a great deal more than half the flock and is a mighty good investment even though you pay a good, round price for him.

Let us figure just a moment. Suppose by the use of a pure-bred gobbler you increase the weight of each of the offspring only two pounds. That I consider a very conservative estimate, and if fairly successful, you ought to raise at least 200 turkeys from the service of a single male. That would be 400 pounds of turkey you would get extra for your investment, and at twenty-five cents per pound—just what they sold for at Thanksgiving time last season—you would get for your trouble a net profit of about \$50. Suppose you have paid \$5 or even \$8, you still have a neat sum for your trouble and you still have the gobbler. If he has proved to be a prepotent one you will not stop with a single year's work with him, but you will use him a second and probably a third year with the same, if indeed not a greater profit.

But as I said, I prefer pure-bred stock on both sides because by this practice you will get a much nicer, even lot that will attract a higher market price and you will be so much more pleased with the attractiveness of the pure blood that you are sure to give them much better care, to say nothing of the extra pleasure in caring for them. In selecting the breeding stock in any line of live stock breeding, that word "prepotency" seems to be a stumbling block to many, whereas it is meant for a stepping stone.

As to the different standard-bred varieties of turkeys, we have seven distinct varieties. Turkeys are not classified as other fowls are. There being not more than one variety in each breed, they are simply divided into varieties. I shall name them in the order that I recommend them: Bronze, Bourbon Reds, White Holland, Buff, Narragansett, Slate. One of the first three breeds would be my preference, the Bronze being the largest of the three at full maturity, and are noted for their great inclination to range.


The Bronze is a longer period in maturing which is a serious objection in many markets. It takes about three years to fully mature a Bronze male and about two years to fully mature the female. The objection to this is that when dressing for Thanksgiving festivities it is an impossibility to finish them off so they will have the nice, well-rounded appearance in the market that the other smaller varieties have. But their extreme hardness has gained for them great favor. The Bourbon Reds are a similar type to the Bronze, only smaller in size and different in color and are fair

rangers and hardy. They are of more recent origin than the other varieties, hence in some instances the young are not likely to be so strong as the other more thoroughly established varieties, owing to the temptation of the fancier to inbreed too closely in order to thoroughly establish them in markings and type, but they are pretty well established now so that good strong stock can be obtained. As to real beauty, there is no variety that appeals to me as they do. Nothing can be more pleasing to the eye of a true poultryman than to see a nice flock of Bourbon Reds scouring the falling autumn leaves for a stray bug or insect that has escaped the early frost. The white tip on the primary and tail feathers, contrasted with the bourbon red of the entire body makes them as

Net Results

—Art What Count—


—In the corn crib—at the threshing machine—in the hay mow—at the bank. This latest new book sent free. Full of actual photographs—big as Farm Paper—showing all kinds of facts on famous Galloway Spreaders. See big ad. on page 21. Write to 109 Galloway Station, Waterloo, Ia.




Breed Prize Winners

We have the stock at right prices—all leading varieties; 100 pens. Write us. Booklet on "How to Raise 48 Chicks Out of 50 Hatched," 10c; Poultry Paper, 1 year, 25c. Catalog Free.


ROYAL POULTRY FARM
Dept. 306, Des Moines, Iowa



LATEST BOOK "Profitable Poultry." Best published. Describes most successful Poultry Farm. 45 Varieties pure-bred poultry, beautiful, hardy and money makers; thousands to choose from. Lowest Price on fowls, eggs, incubators, etc. Send for 4 cents. Berry's Poultry Farm, Box 112 Clarinda, Iowa



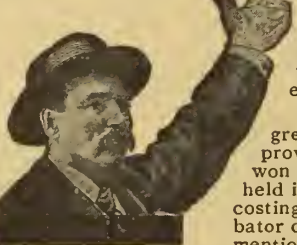
43 Leading Varieties of pure bred Chickens, Ducks, Geese, Turkeys; also Holstein cattle. Prize winning stock. Oldest and largest poultry farm in the northwest. Stock, eggs and incubators at low prices. Send 4 cents for catalog. LARKIN & HERZBERG, Box 13 Mankato, Minn.



50 Best Paying Varieties Pure-Bred Chickens, Ducks, Geese, Turkeys, Eggs, Dogs and incubators. All at low prices. Send 4c. for my Book which gives reliable information worth many dollars to you W. A. WEBER, Box 906 Mankato, Minn.

When writing mention this paper.

52,000 Last Year — 70,000 This!



M. M. Johnson

Old Trusty
Asbestos and Metal Encased
30, 60 and 90 Days' Trial
10-Year Guarantee

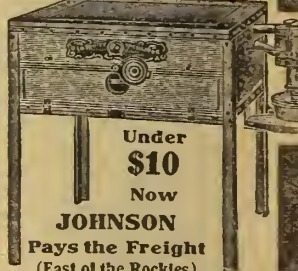
The famous Old Trusty Incubator is the one that guarantees results with either the novice or expert, 80 per cent or better hatches guaranteed, 40 to 90 days' free trial, 10-year guarantee backed by \$200,000 capital. A single hatch makes a profit on the purchase expense.

Have You Got His 1910 Old Trusty Catalog?

350 poultry pictures in the book. Every other page is a poultry sermon—common sense poultry lectures that you cannot find elsewhere. These lectures are Johnson's experience. He made his incubator working capital out of poultry raising, he has helped 225,000 other poultry raisers make money and he can help you. Write today for the catalog. Send a letter, write a postal and send it by first mail. Take Johnson's word for it, you cannot spend a little postage to such good advantage. Address

Book Free

M. M. Johnson, Incubator Man
Clay Center, Nebraska



Under \$10 Now **JOHNSON** Pays the Freight (East of the Rockies)

The Million Dollar Bonded Incubator

There is only one—The Sure Hatch. It is in a class by itself. No other incubator is built of such high grade materials. No other has such a record of results in hatching, nor such a liberal guarantee. Every purchaser of a Sure Hatch Incubator actually receives a \$1,000,000 Surety Bond issued by the great Bankers' Surety Company of Cleveland, Ohio. That bond places the entire resources of this great corporation behind the Sure Hatch Guarantee.

No other incubator is good enough for Bonding Companies to risk their money in backing. The Bankers' Surety Company could not afford to let their name be used, let alone back up our guarantee if the Sure Hatch were not the best incubator on the market. They didn't agree to issue bonds on the Sure Hatch without first looking into the machine, its construction and record.

Now, can you see any chance to lose on an offer like that when we pay the freight and allow you 60 days' Free trial?

Write to-day for complete information about the only bonded incubator and for Free Poultry Book.

Sure Hatch Incubator Co.
Box 16 Fremont, Neb.



Chicago, Ill., Aug. 20, 1909.
"Jan. 1st I had 27 hens. Since then I have hatched over 500 chicks. Sold \$108.00 worth of broilers and eggs and have at least 350 chickens left. I have tried three other incubators but I consider the Sure Hatch best and easiest to run."

MISS L. A. POPE.

The Million Dollar Bonded Incubator

There is only one—The Sure Hatch. It is in a class by itself. No other incubator is built of such high grade materials. No other has such a record of results in hatching, nor such a liberal guarantee. Every purchaser of a Sure Hatch Incubator actually receives a \$1,000,000 Surety Bond issued by the great Bankers' Surety Company of Cleveland, Ohio. That bond places the entire resources of this great corporation behind the Sure Hatch Guarantee.

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Write to-day for complete information about the only bonded incubator and for Free Poultry Book.

Sure Hatch Incubator Co.
Box 16 Fremont, Neb.

a whole a very attractive bird and are sure to gain in popularity.

Next in my favor is the White Holland and in many markets they lead in attractiveness. They being an early maturing variety makes it very easy for the producer to finish them into a well-rounded body which is a strong point in their favor, especially in such markets as New York. They always lead the Bronze in such a market, but for Chicago, or in fact any of our western markets, but little premium is paid for mature, well-rounded stock. Thus the Bronze with their enormous size will pay the grower the best.

An objection is sometimes raised against the Whites owing to the little ones furnishing such an attractive target to hawks, crows, etc., but I think such a claim has but little if any ground for argument. The modern methods employed today to ward off such pests leave but very little room for such claims. I earnestly recommend the White Holland in communities where farms are small and thickly settled. They being the most docile of all turkeys, and not inclined to range as their other sisters do, has given them particular favor in such localities. Of either of the above varieties one can make no mistake in his selection. Enough has been said as to the different varieties so that even the amateur can make no mistake.

Just a word as to the age of our breeding stock. My first preference would be a yearling or a two-year-old hen mated with a good representative young male. Second choice would be the most mature female pullets mated with at least a two-year-old tom. You will no doubt get more eggs from the last named mating, but probably a larger percentage of infertile eggs and also in turn a few more weak poults.

C. E. Matteson.

POINTERS.

—If in need of Single Comb Rhode Island Red cockerels, or eggs of that variety, read the advertisement of Mrs. H. L. Alsop, of Sylvia, Iowa, that appears on page 32.

—The Buff Rock cockerels offered by Mr. J. H. Kelley, of Altoona, Iowa, are something extra. Mr. Kelley has made for himself an enviable name as a breeder of fine poultry and those who buy cockerels from him this year will get top notchers. See advertisement on page 32.

—On page 32 of The Homestead appears an advertisement offering a large number of good cockerels of different varieties of chickens for sale. Mr. I. M. Fisher, of Hastings, Neb., in furnishing copy says that for strong, vigorous cockerels he can please Homestead readers both in price and quality of stock.

—Mrs. Sophia Rader, of Laurel, Iowa, whose new advertisement of Single Comb Rhode Island Reds appears on page 32, writes that she can supply her customers with good eggs in season. However, she states that she must have orders before wanted, as she fills them in turn. Those in need of cockerels should write her at once, as she will close out at bargain prices.

—Mr. J. D. Smith, of Montezuma, Iowa, whose advertisement appears on page 32, wishes all readers of The Homestead who are interested in Silver Laced Wyandottes, Pekin ducks, Bronze turkeys and Embden geese to send for catalog and mating list of his matings for 1910. He has some fine stock from which he will sell eggs at bed-rock prices. Drop a card for catalog. It's free.

—Mr. Franz Bollman, of Wall Lake, Iowa, breeder of Single Comb Brown Leghorn chickens, places an advertisement on page 32 of this paper. With reference to the cockerels offered for sale Mr. Bollman writes: "I have this year not so many cockerels as usual, but those that I have are good birds. Those who buy them will not need to hide them when the neighbors come to look them over."

—Readers of this paper who contemplate buying Barred Plymouth Rock eggs for hatching will do well to consult the advertisement of Mr. John C. Hardman, of Brayton, Iowa, which appears on page 32. Mr. Hardman keeps only the one breed, has expended a great deal of money in good and choice strains of blood, and offers eggs for sale at the lowest possible range of prices. Do not overlook him.

—Mr. Chas. J. Mackey, of West Liberty, Iowa, breeds Single Comb White Leghorns and advertises same on page 32 of this issue. He also has eggs for sale. In his letter ordering this advertisement Mr. Mackey writes as follows: "I have made preparations to take care of early egg orders. My first pen is as good as the best, being headed by a grand cockerel purchased from Mr. D. W. Young, of Monroe, N. Y. This cockerel is sired by a grand show bird that was many times a winner at Boston and Madison Square Garden shows." Mr. Mackey will be pleased to send mating list and circular free to those

readers of The Homestead who write for it. Address Mr. Chas. J. Mackey, Box 523, West Liberty, Iowa.

—Mrs. E. C. McCarthy, of Elliott, Iowa, advertises on page 32 that she is now ready to sell eggs from high-scoring Rose Comb Rhode Island Reds and quotes quite reasonable prices for them. She also has for sale a few scored cockerels. These will be sold at very low rates in order to close them out.

—The attention of our readers is directed to the advertisement of Mr. F. O. Martin, of Floyd, Iowa. Mr. Martin breeds Single and Rose Comb Rhode Island Reds and is offering eggs for sale at the very reasonable prices quoted in his advertisement on page 32. These eggs are produced by fowls that have scored high and been prize winners at prominent poultry shows.

—Mrs. P. L. Carroll, of Hampton, Iowa, in furnishing copy for her advertisement found on page 32, writes: "I have a few choice Barred Plymouth Rock cockerels for sale. They are line bred and of the Bradley Bros. strain. I also have three Mammoth Bronze turkey toms. My hens are now laying and I can furnish eggs for hatching purposes per single sittings, out of pens for either cockerels or pullet matings."

—As there are not very many breeders of Rose Comb Rhode Island Red chickens, the advertisement of Mr. H. E. Huston, Route 4, Iowa Falls, Iowa, as it appears on page 32, will be interesting to those who wish to buy eggs of that breed for hatching. Mr. Huston is selling eggs from high-scoring birds that have established records as layers. He offers these eggs at the very low price of \$1.50 for fifteen, or \$6 per 100. Do not overlook him in forwarding orders.

—We are glad to call the attention of our readers to the advertisement of Mr. R. S. Ketcham, of Boonville, Ind., which appears on page 32. Mr. Ketcham breeds Single Comb White Leghorns of the "Bred to Lay" strain and with the record of having been unsurpassed layers. He sells eggs for hatching at \$1 per sitting, or \$5 per 100, and can handle orders for any numbers. For any other particulars than those given in the advertisement write to Mr. R. S. Ketcham, Box 300, Boonville, Ind.

—Mr. Orlando Jacobs, of Mediapolis, Iowa, breeds Single Comb Brown Leghorns and advertises eggs for sale on page 32. Mr. Jacobs writes concerning his stock as follows: "The eggs that I offer are from good, large, healthy, vigorous stock. Our efforts have been expended in breeding only one variety and doing that well. Our eight years' experience with the Single Comb Brown Leghorn enables us to offer our patrons better values than ever for their money. Our circular and mating list gives winnings at shows and we will be pleased to send a copy of it to anyone who is interested." Note the most reasonable prices quoted in the advertisement. The circular and mating list may be had by writing to Mr. Orlando Jacobs, Mediapolis, Iowa.

—Messrs. C. C. Drake & Son, of La Harpe, Ill., are prominent breeders of Barred Plymouth Rock chickens. At a recent League Poultry Show, at Bushnell, Ill., with eighty-six Barred Plymouth Rocks in line and close competition, Messrs. Drake won first, second and third on cockerel, first and fourth on pullet, first on cock, first on pen and best pair, silk badge for best exhibit of six, silver badge for highest-scoring ten, \$10 gold special for best pen, \$5 gold special for best pair, besides several other minor specials. These winnings were made with an entry of only ten birds, each of which made a winning. Eight of them were placed under the ribbons while the ten only counted on the silver cup. Messrs. Drake have been constant advertisers in the columns of The Homestead and in a recent letter containing remittance on advertising account they say: "The treatment we have received at the hands of the management of The Homestead shows that you are interested in your patrons and their welfare and that you stand by them. At least you have done so during our years of advertising with you. We can certainly recommend The Homestead to anyone for kind treatment to its patrons and as a result getter as an advertising medium. We used five different high-class farm papers and poultry journals, receiving twenty inquiries from one and no sales, seven from another and one sale, six from another and no sales, no inquiries and hence no sales from the fourth paper, but The Homestead sold the stock, making sales for us from 35 per cent of the inquiries received, so we say, hurrah for The Homestead. We will be with you again for the egg trade."

Reforms in Farming.

Reformation in all lines has ever been a matter of slow growth. It has been as true with reference to the methods of farming as in political progress. No new method has been endorsed nor any implement invented but that time alone brought forth its advantages and lead up to universal adoption. This applies perhaps in greater degree to the use of the incubator in the poultry department of the farming business than any other line. Not more than a score of years ago the inventor of incubators began to assert himself in the work of convincing farmers and poultry raisers that there were advantages in the use of an incubator which would produce profits where ordinary methods resulted in losses. The first efforts of the incubator man passed almost unnoticed, but in time the perfection of

Don't Kill The Hen That Lays The Golden Egg

By setting her to hatching chicks. You can't afford it. Keep your hens busy laying and let the Fairfield Incubator and Brooder hatch and raise your chicks for you. They will do it a lot better, easier and cheaper. The Fairfield never leaves the nest in the middle of the hatch like your hens and some inferior incubators do. Its the world's best hatcher—my customers say so. Let me prove it to you at my risk.

I Want You To Try My Incubator Two Hatches FREE

Try the Fairfield first before you buy any other style or make. You can do it if you wish for two hatches free at my risk, in your own home with the money in your own pocket. It's the safest way to test our incubator. The sure way to get what you want.

Write Today For Catalog and FREE TRIAL PROPOSITION—Don't Buy Until You Get It.



My New Fairfield Incubator

Will give you the largest hatches and healthiest chicks. It's the "World's Best Hatcher."

That's what my customers call it! Their experience has proven it to be all that for them and you too. Now isn't that the kind of Incubator you want in your poultry business? Just let me send you a Fairfield to try for two full hatches free in your own home. I guarantee it to give you bigger hatches and better chicks than any other Incubator made, or your money back and I will pay the freight. You can't beat this offer anywhere. You can't beat the Fairfield Incubators and Brooders at any price. Let me prove it to you at my risk. Write for catalog and special free trial offer today.

No Incubator on the Market Like Mine. The Fairfield is made out of California Redwood, Copper Steam and water patented heating system. Perfect regulator. Best lamp in any incubator made. Large roomy nursery and egg chamber. Double doors. Unobstructed top. In every way as good an incubator as you can buy at any price. Our direct-to-you-price saves you one-third to one-half. Write for new catalog and special offer today. Address

Sam Thompson, Pres., Nebraska Incubator Co.
127 Main Street, Fairfield, Nebraska.

Write To Us And Get Acquainted

With What We Have to Offer

A letter or postal—either one will do—then we'll send you our literature and valuable information on raising poultry to make money.

Racine Incubators turn healthy eggs into healthy chicks every time—and give the highest percentage of hatches. They are sure—safe—and simple—made to last a lifetime—sold at prices lower than anybody else will quote you for the same quality—and they make money for you right from the jump and give everlasting satisfaction. Write and get our proposition—our literature is free. Free Trial plan—best ever offered. Don't delay—Write for full information today.

RACINE HATCHER COMPANY, Box 135 Racine, Wis.

125 Egg Incubator and Brooder Both For \$10

Why pay more than our price? If ordered together we send both machines for \$10.00—freight paid east of Rockies. Hot water, double wall, dead-air space between doors, copper tanks and boilers, self-regulating. Nursery underneath the egg tray. Both Incubator and Brooder shipped complete, with thermometers, lamps, egg-testers—all ready to use when you receive them. All machines guaranteed. Incubators are finished in natural colors showing the high grade lumber used—no paint to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money. It pays to investigate the "Wisconsin" before you buy. Send for the free catalog today, or send in your order and save time.

WISCONSIN INCUBATOR CO., Box 105, Racine, Wis.

EVERY FARMER SHOULD START THE NEW YEAR RIGHT

Don't Do Another Thing Until You Investigate the Merits of

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THE FARMERS' COMPANY, PLANO, ILL.

We Want You to Know of the Organization and Working of the Greatest CO-OPERATIVE Enterprise in Existence.

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the machine and the excellence of the results obtained brought about a most general acceptance. Today the incubator has become as necessary on the farm of the improved farmer as is the planter or harvester. It is a completed, perfected, up-to-date harvesting machine and the only question which now receives the attention is as to what part of the make of machine is the more advisable. We will not pretend to answer this question, but will permit the manufacturers to argue their own cases. We are glad, however, to refer prospective buyers to the advertisement of the Cyphers incubator which appears on page 30 of this paper. The Cyphers has so well fulfilled its mission that the manufacturers offer it for sale under conditions that leave no doubt as to its merits. All the facts with reference to the Cyphers may be had by sending for a copy of the catalog, for which address the Cyphers Incubator Company, Dept. 42, Buffalo, N. Y.

Belle City Facts.

The Belle City incubator and brooder advertised on page 30 of this paper is an old friend of most poultry raisers. It has many advantages not possessed by other machines. Not the least of these is that it is manufactured from Paragon fiber board which precludes the possibility of swelling and shrinking to which all wood-made incubators are subject. This improvement seems to have been about the last incident in securing perfection for the Belle City. In all the features of incubator work and management it has for years answered every requirement. We have before us a sheet on which are given hundreds of testimonials from those who have used the Belle City and are well pleased with it. The facts and

DOGS.

SCOTCH COLLIE PUPPIES For sale. \$5 to \$8. Very best breeding; will make fine workers. Write us your wants. T. A. Stevenson, Shinnon City, Iowa.

A Grand Litter of Collies ready to ship; one whelped February 2d; also fine female eight months old. Two fine broken Fox Terrier females, \$10 each. C. H. Drake, Hazleton, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

FOX TERRIERS—king of the rat terriers. Puppies and grown stock for sale. Few choice S. C. Red cockerels. Address Sabot Kennels, Pella, Iowa.

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I Have the Best White Wyandottes I ever raised, now ready for sale. \$10 trio a specialty. Quality stock. J. M. Erickson, Slater, Iowa.

WYANDOTTES

White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. A. L. Anderson, Indianola, Ia.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3.15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

Buff Wyandottes 12 cockerels, 20 pullets, for sale at a bargain if taken at once. A. E. Goodman, Indianola, Iowa.

Buff Wyandottes I have a few good cockerels for sale. Address Mrs. Grant Davidson, R. 5, Scranton, Iowa.

Buff Wyandotte Cockerels, bred from show yard strains, for sale. Also a few pullets. Geo. M. Deyoe, Minson City, Ia.

Silver Laced Wyandotte cockerels for sale; larger and better than ever. Write today. S. R. Young, Greenville, Iowa.

Choice Buff and Silver Laced Wyandottes; cocks and cockerels, \$1, \$2 and \$3 each. Write E. K. Morris, Montezuma, Iowa.

ORPINGTONS.

THE S. C. BUFF Orpington Farm. After March 1st, I will offer eggs by the sitting at \$2.50 or \$7.50 for 50, and by the 100, \$12.50. Will replace all clear eggs if returned express paid. J. T. STADLER, MINDEN, NEBRASKA.

S. C. Buff and Black Orpingtons, best strains. Cockerels, \$2 and \$3 each. Pullets, \$1.50 and \$2. Eggs, \$2 and \$3 per 15; utility, \$6.50 per hundred. E. B. Conable, Box 4, Independence, Ia.

ORPINGTONS S. C. Buff. A fine lot of cockerels, \$1.50 to \$3 each. Eggs in season. Address Han McCarty, Winthrop, Ia.

Single Comb Buff Orpington cockerels and pullets. Eggs in season. Eggs from fine Hondans reasonable. Mrs. Chas. Gutches, Floyd, Ia.

BUFF, White and Jubilee Orpingtons for sale, including eggs very cheap till May 1st, the time we must move. P. N. Dunn, Humboldt, Iowa.

Buff Orpington Ckls. Also a few cocks, grand in color, size and shape. Address Nettie Crane, Blencoe, Iowa.

SINGLE Comb Buff, Black, White and R.C. White. Scored ckls. Scientifically mated breeders. Eggs. Baby chicks, mating list. Dr. Evans, Legrand, Ia.

MINORCAS.

S. C. BLACK MINORCAS EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

BABY CHICKS.

BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

BRAHMAS.

Ottumwa POULTRY YARDS; Light Brahmas have 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

COCHINS.

Buff Cochins Exclusively 50 large framed, bred, well-feathered cockerels at \$2 to \$5. Write W. W. Vaughn - Marion, Iowa.

Advantages given constitute the description of a perfect machine. Merely as a sample of what most of these testimonials say we quote from the letter of Mrs. C. A. Belknap, of Orangeville, Ill., in which she says: "I have had three good hatches and am well pleased with the Belle City incubator and brooder. I would not be without them. My neighbors who have seen them and their results now all admire the Belle City." Readers of this paper who wish to fully inform themselves as to the merits of an incubator should procure a copy of the testimonial sheet above referred to. It, together with descriptive catalog and price list, may be secured by writing to the Belle City Incubator Company, Box 52, Racine, Wis.

A World's Fair Winner.

The Queen incubator has not only won prizes at world's and state fairs, but it has demonstrated its value on the farm, and that is perhaps the best endorsement of all. One of those who use a Queen, Mr. Hugo Lemke, was so pleased with it that he wrote the manufacturers, saying: "The Queen incubators and brooders are the best made. When I hatch chicks in a Queen incubator and put them into a Queen brooder I raise practically all of them. From my experience with other makes I did not believe that this could be done." This experience is not unusual, in fact, it is the rule. Many other testimonials equally as good, together with descriptions of the Queen, prices and special liberal terms may be had by writing to Wickstrum, the Queen Incubator Man, Box 10, Lincoln, Neb. See page 30 for advertisement.

RHODE ISLAND REDS.

FREE TO CUSTOMERS

TEN CENTS TO OTHERS.

Lesson on color, illustrated by sample feathers. How to buy foundation stock and mate for best results.

Who Are Fake Advertisers. Explanation of the Hale score card system. Egg catalog now ready.

Mrs. F. W. McIntyre, R. 5, Red Oak, Iowa. S. C. RHODE ISLAND RED SPECIALIST.

S. C. Rhode Island Reds

TOMPKINS STRAIN

Write for descriptive circular.

P. H. Thiel, Renwick, Humboldt Co., Iowa.

Reds—Single and Rose Comb CHARLES City, 1910; Shanklin, Judge. S. C. won 1st, second pullet, second cockerel, second pen; 4 premiums on 6 entries. Scored range stock eggs, \$5 per 100. Choice yearlings, \$2, \$3 and \$5 per 15. Guaranteed good hatch. F. O. Martin, Floyd, Iowa.

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PRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. M. Finkenhausen, Ellsworth, Ia.

Rose Comb R. I. Red eggs for hatching, from pullets scoring to 92%, cockerels to 93. Splendid layers. Eggs \$1.50 per 15; \$6 per 100. Address H. E. Huston, Route 4, Iowa Falls, Iowa.

Rose Comb R. I. Island Reds. A few scored cockerels for sale. Eggs from high-scoring birds. \$2 per 15; \$3.50 per 30; \$10 per 100. Mrs. E. C. McCarthy, - Elliott, Iowa.

R. C. R. I. Reds. Cherry Red strain. Eggs from 5 pens; also utility yard. Scored cockerels for sale. Harry C. Blake, Maquoketa, Ia.

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EGGS From choice mating; Rose Comb R. I. Reds; great laying strain; best of stock. Address A. L. Sanders, Perry, Iowa.

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Rose Comb Rhode Island Reds. A choice lot of cockerels scored by Todd, for sale. D. E. Witmer - - - Polk City, Iowa.

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POSE and Single Comb R. I. Reds; fine bred; high-scoring eggs, 15 for \$1, 50 for \$3, 100 for \$5. Good laying strains. Mrs. T. A. Gough, Bristow, Iowa.

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S. C. R. I. Red Eggs, \$1.50 for 15. A few S. and R. C. cockerels at a bargain. MRS. SOPHIA RADER, LAUREL, IOWA.

S. C. R. I. Red cockerels for sale; scored and unscored. Eggs for sale. Write for prices. Mrs. H. L. Alsop, Sylvia, Iowa.

ROSE Comb Reds. Trap-nested for great egg production. Beautifully illustrated, descriptive catalog free. Iowa Poultry Farm, Gilmore City, Ia.

S. C. R. I. Reds 12 fine cockerels at \$2 each; eggs, \$1 per 15; \$5 per 100. Address I. C. Welch, Bedford, Iowa.

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ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. From prize-winning and high-scoring stock. Cockerels or hens, \$1.50 each, 6 for \$7.50, \$15 per dozen. Eggs, 100, \$4; 200, \$7.50. 12 years with this breed. R. R. STEWART, R. 2, Charles City, Iowa.

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EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$5; 200 for \$9. T. A. DAVENPORT, BELMONT, IOWA.

S. C. Brown Leghorns Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

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BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketcham, Box 300, Booneville, Ind.

WYCKOFF strain S. C. W. Leghorns; scoring to 95%; special matings, \$1.50; 15 eggs, incubator, \$5, 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. Sunny Slope Poultry Yards, Oskaloosa, Iowa.

Rose Comb Brown Leghorn cockerels; choice birds; prices right. Eggs in season. Address Mrs. Laura Muther, Clarksville, Ia.

ROSE COMB Brown Leghorn cockerels for sale, high-scoring, \$1.25 each. After January 15, 1910, \$1.50. Address Eva D. Tunt, Alta, Iowa.

FIFTY ROSE COMB BROWN LEGHORN COCKERELS \$1.25 each; very choice. J. A. Albertus, Portsmouth, Ia.

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For sale; price \$1. W. T. Griffith, Lorimer, Iowa.

S. C. White Leghorn Cockerels, Young strain; S. C. Buff Leghorn cockerels, Tecktonius strain. John Kearville, Centerville, Iowa.

S. C. B. Leghorn ckls. that are well marked. Large, strong-boned, good-combed, healthy birds. \$1.50 each. F. Bollman, Wall Lake, Ia.

S. C. W. Leghorn eggs; first pen headed by chl. direct from Young. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

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Buff Plymouth Rocks and Black Langshans

Prize-winning birds, scored and unscored, \$1 to \$3.50 each.

C. E. Malone, Atlantic, Ia.

219 Egg Strain B. P. Rocks

AND these birds are Blue Ribbon winners. I have a few cockerels and females for sale, from \$1.50 to \$5 each. Address

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LARGE size and extra heavy bone, with that deep blue, clear barring, not brassy, sired by high-scoring cockerels from hens and pullets weighing from 7½ to 11 lbs. Price \$2 to \$4 each. Write your wants to M. A. Easthouse, Hartley, O'Brien Co., Ia.

BARRED ROCKS

If you want one of those large, very dark, close-barred, heavy-boned ckls., from my \$50 Bradley bird, to head your best yard, write me at once. Descriptive circular for the asking, giving full particulars. Albert A. Foster, R. 2, Russell, Iowa.

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I AM offering choice eggs from the leading strains at \$1 for 13; six sittings for \$5. Write me at once. Address Jno. C. Hardman, Brayton, Iowa.

CHOICE Utility B. P. Rock cockerels; large, good shape, well barred and will please you. Also some very choice S. C. W. Leghorn cockerels. M. E. BIRCHARD, HAZLETON, IOWA.

Buff Rocks Winners of highest awards at Iowa and other leading shows this season. Cockerels for sale; also eggs. Write your wants. C. & C. T. Van Lint, R. 4, Pella, Ia.

150 Bradley and Thompson B. P. Rocks COCKERELS AND PULLETS. Henry Schlatter & Sons, Lawler, Iowa.

BARRED Rock cockerels, bred from carefully selected matings; vigorous, fine, even barring; extra care taken in selecting ckls. to suit customers; from \$2 up. Chas. McCaskey, Route 2, Ogden, Iowa.

WHITE ROCKS Trap-nested, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up. 15 eggs \$3, \$2 and \$1. Address Rev. James A. Slack - Yorktown, Iowa.

White Rock Cockerels \$2 to \$5 each. Few pullets and hens. Also some extra fine Bull Terrier pups. Address F. H. ECKERT, CHARTER OAK, IOWA.

BARRED PLYMOUTH ROCK HENS AND PULLETS FOR SALE. GEO. F. BLAKE, MAQUOKETA, IOWA.

Smith's Buff Rocks. Have a few scored cockerels for sale. Will close out right. Eggs in season. C. F. Smith, Route 5, Griswold, Iowa.

BARRED ROCKS Have some fine pullets, hens and cockerels for sale. Eggs for hatching in season. Mrs. W. S. Kern, Iowa City, Iowa.

Buff and Barred Rocks 85 large, fine cockerels, extra heavy-boned, scoring 88 to 94½; farm raised. E. C. Rice, Gray, Iowa.

SCORED M. B. turkeys; toms, \$5 up; pullets, \$3 up. From high-scoring stock. White Rock cockerels. Sterling Martin, Melrose, Iowa.

BARRED Rock cockerels, Bradley strain, cockerel mating. Choice stock for sale, from 90% to 91½ point birds. H. B. Simpson, Albany, Illinois.

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of choice quality. Address Mrs. M. C. Thompson, Route 2, Atlantic, Ia.

18 B. P. Rock cockerels; strong, vigorous birds, with great size and quality, and narrow, deep barring. Some show birds. C. G. Good, Ogden, Ia.

50 W. P. Rock Cockerels from my laying strain, scoring from 90 to 94. Eggs in season. T. F. Martin, Maxwell, Iowa.

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BLACK Langshans. 20 choice cockerels for sale, \$1 and \$1.50 each. Parent stock scored 94 points. Eggs in season. Farm range. Mrs. J. H. Coats, Vail, Ia.

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Barred, White and Buff Rocks, White and Golden Wyandottes, Black Langshans, S. C. Buff Orpingtons, Rose and Single Comb R. I. Reds. Order now for eggs and baby chicks. Write me for prices and information. I. M. FISHER, Box 11, Hastings, Neb.

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Barred Plymouth Rock, White Wyandotte, Holland cockerels, \$1.50, \$2, \$2.50 each. Hens also. W. C. Frazier, Atlantic, Cass County, Iowa.

PRIZE-WINNING Pekin ducks for sale; never have been beaten where shown. Also S. L. W. ckls. Mrs. Edith Eyabroad, R. 1, Grundy Center, Ia.

Buff Rock cockerels, Pekin ducks and Embden geese. Prices reasonable. Eggs in season. Mrs. Charles Steadman, Lacey, Iowa.

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CHOICE M. B. turkeys, B. P. Rock cockerels and W. Wyandottes; large, heavy-boned stock, finely marked. Mrs. H. J. Hess, R. 6, Waterloo, Iowa.

ROSE Comb Rhode Island Red, White Orpington cockerels; heavy-boned, extra nice large birds. Also Toulouse geese. P. F. Smith, Montezuma, Ia.

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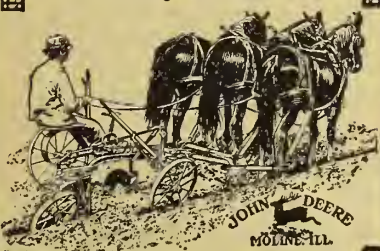
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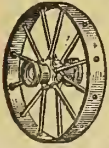
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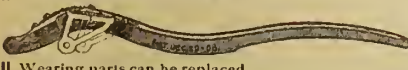


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FARM FUN & PHILOSOPHY



It is not always the loudest-crowling rooster that takes the first prize at the poultry show.

A bill was once presented to the legislature prohibiting anyone from fishing with more than one hook at the same time. Another one should be presented and passed prohibiting any young man from driving a horse with more than one hand when riding out with his dulcinea.

What is more provoking than to see an old hen around clucking in the winter, wanting to set when eggs are forty cents a dozen and chicken feed at the top notch? It ought to make the rooster disgusted—it is an outrage.

Automobile Mis-rules.

Proposed regulations for the guidance of the public in relation to automobiles:

Pedestrians shall not be allowed on the streets or walks except between the hours of 8:00 a. m. and 4:00 p. m. on clear days, and when cloudy or foggy they shall not be allowed to go out of doors at all.

A pedestrian shall have a boy go ahead of him at least twenty rods with a red flag to notify autoists that they must not run more than seventy-five miles per hour until they have passed said man, and another boy to go the same distance behind, walking backwards, to ward off rear-end collisions.

Roads shall be made through the fields in the country, with overhead crossings over each side highway for vehicles of all kinds, including baby cabs, push carts and bicycles, so as to not interfere with the running of automobiles on the highway.

In cities all streets for pleasure driving, push carts, baby carriages, etc., shall be made in the alleys and elevated so as to give access to the second stories of the buildings. This will also tend to elevate the horse.

When the dust of an auto is seen in the distance by the driver of a vehicle, the tugs and lines shall be cut immediately and the occupants of the buggy or wagon shall climb a tree or telephone pole with the rapidity of lightning. Ladders shall be carried by all vehicles for this purpose.

Horses that are blind and deaf shall be trained as carriage horses when practicable, with a view of propagating a race of horses without eyes or ears in the near future.

In case an auto runs over a team or carriage and injures the machine or its occupants, the driver of the vehicle shall be held for the damage, together with reasonable fine for not getting out of the way.

Manholes should be placed in the sewers at each side of the cross streets so that pedestrians can go down and cross under the streets and avoid being struck from the sides. In case the roads are dusty, a street sprinkler shall precede all vehicles, as the dust may obscure the beauties of the landscape to the autoists. All vehicles, baby carriages, push carts, etc., shall be painted a bright, fire red, and a locomotive headlight shall be placed on the heads of all horses in the highway, whether they are hitched or running loose, under penalty of having the horses confiscated and the owner jailed for six months.

All teams shall be broken to jump sideways at least fifteen feet in the clear, and shall be inspected once per week by an expert furnished with the proper instruments for measuring side jumps, at the public expense.

Any autoist who is injured on the public highway, provided he is not running more than 100 miles per

hour, shall have medical attendance furnished at the expense of the county or city free, and if it be proven that a horse or an old woman is within ten miles of him at the time of the accident, he shall also have per diem of \$15 per day, and in case of death the funeral expenses shall be borne by the county, and the widow shall be pensioned at the rate of \$100 per month for the balance of her natural life.

Anyone driving a team at night must let the fences down and drive through the fields, and any farmer objecting to the same shall be held responsible for all damages incurred within three miles of his farm in any direction. In case a team scares and runs away, if it runs so fast that the auto cannot catch it and smash at least one wheel of the buggy, the driver shall be fined at least \$100 for not having a bit on the horse by which he can hold it down to the speed of the auto.

Highway supervisors shall be instructed to build caves at the intersection of all country roads into which all vehicles can be driven night or day to guard against the obstruction of the highways so that automobiles can at all hours speed unvexed from here to yonder. A watchman shall stand on each cave with a red flag by day and a red light by night, and a telegraphic code of signals shall govern the movement of all vehicles at all times, and pedestrians shall stay in the caves at all times when an auto is within thirty miles either way, going or coming.

In case a vehicle shall approach a crossing that cannot be seen, the driver shall open the fence, hitch his team inside and walk to the watchman and stay there until given the signal to move on. He shall then drive only by signals until he is at least 300 miles from the watchman.

No Affinity Needed.

A Kansas woman is advertising for someone to appear and claim her husband as an affinity if they want one. She says: "He grumbles at his meals, he puts his feet on the parlor chairs, and his head on the parlor cushions, he brings visitors home to meals without letting me know in advance so I can have enough cooked for them, and when I ask for Christmas money he wants to know what I am going to do with it? If any woman can see her affinity in him I wish she would come, prove property and take him away."

If the husband had not been somewhat forehanded there would have been no parlor or parlor chairs, and nothing in the house to cook for visitors, and with about six hungry children hanging to her skirts, she would hang to that man closer than a cockle-bur to a mule's tail, and if she saw anyone talking to her husband in a mysterious manner she would sail in to the raven locks of the would-be affinity like a snapping turtle on a June bug.

That woman has had too much prosperity. The faults described are grave ones, but such that any true woman can by a little finesse correct in a week.

Side up to him, madam, and tickle him under the chin with a toothpick, get him by the ear and kiss him as you used to do when you sat out on the lawn chair in the gloaming. Feed him two or three days and pet the brute. He will shave twice a day, keep his feet on the floor, lie with his head on a wooden block if necessary and you could not get him to look at an affinity if you tried.

Go into the affinity business yourself and you will make your old parlor shine like a crystal palace if there is only one chair in it and the stove stands coddled up on three legs.

Corn Is Still King.
It is very doubtful whether there has ever been given so much thought and scientific, practical research to any known cereal crop as there has been to corn. Marvelous results have been achieved in increasing both quality and crop. The manufacturers of corn planting machinery have been doing all in their power to aid in this work, and to them some measure of praise is justly due. The Hoosier Corn Planter is one of the results of this painstaking work. Hoosier Corn Planters can be had in many styles, with and without fertilizer attachments. They can be had with shoe or runner, single disk or twin disk furrow openers. Also in round-hole, flat drop and edge drop plates. No matter what style of corn planter the user wishes to purchase, he can find it in the Hoosier Corn Planter line. The Hoosier Corn Planter has many exclusive features. Every Hoosier Planter is sold under the most liberal of guarantees. The Hoosier must and will do all that the manufacturers claim. They are accurate, very simple, easily adjusted, strong and of light draft. Before purchasing a Corn Planter the farmer should write to the manufacturers, The American Seeding-Machine Co., Incorporated, Richmond, Indiana, for a Hoosier Corn Planter catalogue. Then go to the retail implement dealer and insist on seeing the Hoosier Corn Planter.

I just want you to try it Free for 10 days

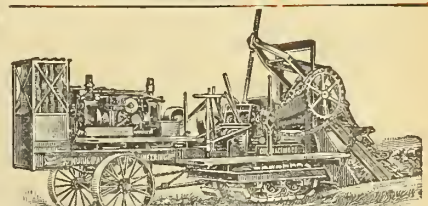
More corn to the acre—and more profits—is what every farmer wants. Plant fertile seed—that's the secret. Don't plant the small, shriveled-up kernels, the kind that die for lack of vitality and the sort that produce the dwarfed, stunted stalks feebly supporting undeveloped ears and sickly nubbins. Grade your seed corn, using

The HURFF Seed Corn Grader

It throws out the defective kernels, delivering four grades of corn. It is a force feed machine, non-adjustable and fool proof. It separates the plump, full kernels—the only kind you should plant. You can easily grade three bushels of corn per hour. No other grader equals the HURFF for perfect work. An hour's use will convince you, but I will ship the machine to you and allow you ten days' free trial, freight paid. Write to me at once; let me tell you how little the machine costs and how quickly it will pay for itself. You can't afford to be without it.

Ask me for my catalog and full particulars—tonight.

L. M. Hurff
103 Maple Avenue
Galesburg, Illinois



PURCHASE AN Austin Tile Ditcher

It will dig from 3,000 to 5,000 lineal feet per day and make you more clear money than the best 160-acre farm in your county. If you have decided to branch out for yourself this year, arrangements should be completed at once, as spring will be here almost before you know it.

The Austin Tile Ditcher is the only ditching machine made that has positively self-cleaning buckets, hence will dig gumbo or sticky clay without clogging.

It is self-propelling and will travel over wet and boggy ground without miring. For further particulars send for Catalog No. 311. Agents wanted in unoccupied territory.

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POPULAR RECIPE

**This Home-Made Cough Syrup
Stops Coughs Quickly.**

Make a plain syrup by taking one pint of Granulated Sugar, add one-half pint of warm water and stir for two minutes. Put two and one-half ounces of pure Pinex in a pint bottle and fill it up with the Granulated Sugar Syrup. Take a teaspoonful every one, two or three hours. Keep well corked and it will never spoil.

The effectiveness of this simple home-made article is surprising. It usually stops a deep-seated cough in twenty-four hours. It is also excellent for colds, whooping cough, pains in the chest, bronchial troubles and similar ailments.

Use the real Pinex in making it, however. It is the most valuable concentrated compound of Norway White Pine Extract, and it is far superior to the numerous pine oil and pine tar preparations. If your druggist does not have it, he can get it for you without trouble.

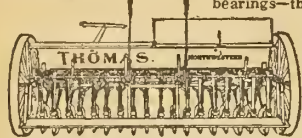
The proportion above suggested makes a full pint of the best cold and cough remedy. The taste is so pleasant that children take it willingly. The total cost is about 54 cents.

Strained honey can be used instead of the syrup, and makes a very fine honey and pine tar cough syrup.

This Drill Has 13 Exclusive Points!

Yes, Sir, 13 separate, superior points not found in any other drill! It's the biggest crop-getter and the easiest handled machine. Investigate the "Thomas" and decide to-day to get bigger and better crops. A postal brings complete book free.

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WITH THE EDITOR.

"Do you know, Mollie, your mother is the only woman who has ever made me feel it was worth while to be just a mother?"

Mollie gave a happy laugh as she said, "She is a dear, isn't she?" Then suddenly sobering she said: "But that's a queer speech, Helen. I don't believe I know anyone else who could have made it. What do you mean by being 'just a mother'?"

As she spoke, Mollie seated herself and drew the mending basket toward her, deftly threaded a needle and picking a torn garment from a basket of freshly-laundered clothes began to patch it. Helen seeing her friend settle for work with the needle proceeded to follow her example—in keeping with her determination to make herself helpful as well as an agreeable guest.

When Helen's needle was threaded and a bundle of hose assigned her, Mollie said again, "What do you mean by being 'just a mother'?"

"I don't know that I can put it into words, Mollie," replied Helen, "but somehow I've never been able to see anything very fine about the ordinary mother. Your mother is different."

"Oh, yes, I know that," murmured Mollie with a contented little sigh.

"If I remembered my own mother I might feel different," continued Helen, "but I don't. Aunt Ellen has been very good to me, as good as to her own children, I think, for we were all like one family. That's one reason I feel the way I do. We've all taken what she has done for us as a mere matter of course. Auntie has not gotten much out of it, though she's worked terribly hard, but then she has not put much into it, either. I see that plainly, since I've known your mother—and the trouble is I've met no one else quite like your mother and so many like Aunt Ellen."

Mollie stitched on and after a moment's silence Helen, who was in reality ten years her friend's senior, though the one was twenty and the other twenty-three, continued: "Most mothers have seemed to me servants who toiled without wages, and while the work took all their time and energy it has not seemed worth much. I don't make it plain, I dare say, it's not very plain to myself, but over and over again when I've seen mothers broken down from overwork, and old mothers who felt themselves a trouble to their families, and been in homes where the mother slaves from morning to night for a commonplace family who take all her labor and devotion as a matter of course, I've asked myself, 'What's the use?'"

"And then I came here where it's all so different. It is simply beautiful to see you all together. Your mother works hard, to be sure, but it's different. I'd never think of pitying her. When washing and cooking and cleaning and mending are all there is, it is drudgery, but when one does these things as your mother does it's like a priest ministering at an altar. When I realize that it is because Jack is her son that he is so manly and so tender and so true, and that it is because you are her daughter that you are so sweet, I see possibilities in the sphere of motherhood of which I'd never dreamed. I wonder how she does it."

Mollie smiled, but her eyes were wet as she remarked: "You think mother is fine, but you don't know half how splendid she is. You've noticed how she and father sympathize with us and how we do everything together. It's always been that way. When we were little tads they read to us and played with us and did everything with us, as well as taught us to work with them. That's why they felt so unhappy when we had to give up school those two years after father went security for Uncle Max. And it made them so dear to us—you can't think how dear. Oh, it was then moth-

er was splendid! But for her we'd never have pulled through that awful time. She gave us all courage. The corn failed that first year, and to make things worse the cholera carried off scores of our hogs, but mother never lost heart. She insisted it would all come out right in the end. It was she who coaxed Jack to follow the course of study by himself and she who encouraged me to keep up my music. As I look back now I can see that those years were a blessing to both Jack and me, but if mother had not been so wise and so brave and so dear, discouraged as we were, they might have ruined us both."

"No, not that," said Helen quickly. "With the training she had given you, you could not have been ruined. That's what appeals to me in your mother's motherhood. She has not just borne and fed and clothed you, she has given herself to you, and in such a way that you have developed into a capable and lovable man and woman who cannot fail to be of service in the world—and a joy to her since you both love and revere her."

"We surely do that," murmured Mollie.

"It must be very sweet to hold the love of a good man like your father, and to have a son and daughter like you and Jack, and to make a home which is the radiant, restful place yours is."

Helen paused and then with rising color she added, "It makes marriage attractive and homemaking inviting."

Mollie smiled delightedly, then shaking her finger at her friend she added roguishly, "Oh, I'm so glad, I believe I'll tell Jack."

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.
Grave on thy heart each past "red-letter day."
Forget not all the sunshine of the way
By which the Lord hath led thee—answered prayers
And joys unmasked, strange blessings,
lifted cares,
Grand promise echoes. Thus thy life
shall be
One record of his love and faithfulness
to thee.

—Frances R. Havergal.

Drop the reins of government occasionally and be a child with your children. These movements of sympathy with their delights will deepen your influence more than severe disciplining and be remembered longer.

CURE FOR BLACKHEADS.

To get rid of blackheads cleanse the face nightly with the following: Tincture of green soap, two ounces; distilled witch-hazel, two ounces. Let this mixture stay on only a few minutes; then wash off with hot water. If the green soap irritates the skin, as it sometimes will, use it every other day. Apply this with the tips of the fingers, and wipe off with a soft towel, then steam for ten minutes, partly dry face and press out the blackheads with an old-fashioned watch key or, what is better, a small instrument made for that purpose. Massage the face for fifteen minutes with a rotary motion, and remember to work up and from the nose outward. Remove the cream with a soft towel and next wipe the face with the towel dampened with orange flower water. Last of all use a good face cream.

NUTS AS FOOD.

Few housewives realize the culinary possibilities of nuts, but a little study along this line will show her that there is no easier way in which to give novelty to a common dish, and they are a most healthful article of diet.

Try a sandwich made of whole wheat or graham bread and chopped nuts, properly salted and slightly moistened with cream, or if the ordinary wheat bread is used, cut it into thin slices, remove the crusts and use a filling composed of chopped nuts, figs and dates, well mixed, and moistened with a little orange juice.

Take a cupful of hickory nuts to a plain molasses cake, and note the difference they make. Nut fritters are also excellent, as well as nut puddings.

These, however, are but suggestions. The progressive housewife can concoct many appetizing and novel dishes by the aid of nuts if she will turn her attention to this and commence experimenting for herself.

HOUSEHOLD HELPS.

To insure a properly-aired house in

The family that eats
plenty of

Quaker Oats

is a healthy, rugged
family.

The most popular
food in the world be-
cause it does most
and costs least.

Packed in regular packages, 10c; also in family size packages, 25c. 54

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The all the year round best beverage for all classes, ages and sexes.
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THE COCA COLA COMPANY, Atlanta, Ga.

SAFE, POWERFUL, ECONOMICAL, DURABLE NEW HUBER Traction Engine

The New Huber Traction Engine will do more farm work on less fuel than any other engine you can buy. And here is the reason. Instead of drawing the heat of the fire through the boiler once as in ordinary engines, the New Huber flues draw the flames and hot gases through the boiler and back again through our special Return Flue, getting just double the steam from the fuel burned. Then our Super Heater, by taking the steam through the hottest part of the fire just before delivering it to the cylinder, gives it the greatest expansive force. This means greater power from less fuel. Let us send you our book, which explains all these details. It will interest you and save you money. Write for it to-day.

THE HUBER MFG. CO., 624 CENTER ST., MARION, O.

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TIRES, Coaster-Brake rear wheels, lamps, sundries at half usual prices.

MEAD CYCLE CO., Dept. C184 CHICAGO

BOWSER SWEEP MILLS

Different from all others. 4 or 2 horses. Geared into 1 or 7 to 1. Grind Corn with shucks or without. And all small grains including Oats and Wheat. (Also make 8 sizes belt mills.)
E. N. P. Bowser Co., South Bend, Ind.

winter, see that at least one window in each bedroom is down a little from the top. Half an inch will be enough to let in fresh air without creating a draft.

When carpets are not taken up they can be greatly freshened by washing over with water to which a tablespoonful of ammonia has been added to each pail of water. This should be done after a thorough sweeping.

An excellent way to remove a spot from a dark woolen skirt is to rub it hard with a piece of soft linen. In nine cases out of ten the spot will be absorbed by the linen without any cleaning fluid being applied.

When cooking spareribs, first boil them, remove the scum, and when practically done, place in a baking pan and add salt and pepper. Bake slowly and do not brown them too much.

If doughnuts are put into the oven and thoroughly reheated before being served they will taste marvelously like pastry which has just been made. The flavor of doughnuts is improved if they are rolled in sugar on being taken from the oven.

For a meat pie crust, take a quart of flour, add three tablespoonfuls of lard, two and a half cupfuls of milk, two teaspoonfuls of baking powder and a teaspoonful of salt. Work all together as quickly and lightly as possible.

AMONG OURSELVES.

Mrs. E. S. M. comes with a little word which I am sure will appeal to many a mother in our circle:

There was one who came to us on New Year's Day a year ago, spent six short months with us and went back to God. I have written a little poem about her and I enclose it, hoping it is not presumptuous to wish that some other mother, whose heart has battled with rebellion as mine did, might see it and take comfort:

A BABE'S MISSION.
How helpless we who watched beside her bed!
How longed the parent hearts to bear her pain,
To still the little, restless, throbbing head,
To cool the fever pulse in every vein.
Then came the calm, and after that
The still, sweet look, the long, deep breath;
The tender, tortured frame at rest—
How merciful was death!

O Infinite! was this the sacrifice—
This little life of helpless innocence?
For our redemption, this the perfect price
Rendered in throes of agony intense?
O broken flower of babyhood,
Be this the purpose of thy pain
That we might see the way of truth,
It hath not been in vain.

With hearts grown tender through thy sufferings,
We pray thy mantle of submission,
Beloved, spread thy snow-white spirit wings;
Thy pain is past, thine earthly work complete.
Bereft, but oh, triumphant thought,
Our own through all eternity.
O death, where is thy sting? O grave,
Where is thy victory?

The sting of loss is softened when we can see good in the loss. Alas, that often tears so blind our eyes we fail to see.

Another mother comes with a problem she would have us help her solve:

I am a constant reader of the Home Department and read with much interest the letters from "Among Ourselves." Ever since last summer I have thought I would present my little tale of woe, hoping some of you might help me ere another summer arrives. I have one little child, a boy seven years old. I do not allow him to go anywhere without me or his father, not even to our nearest neighbor's. My nearest neighbor has five little ones, all under seven. She allows her little girl and two oldest boys to run all over; here one day and there another, but they habitually make for my house; have been to my house every day in a week. After the first week I began to feel imposed upon. My health is not the best and I am home a great deal, so I sent them back home without letting them stay a minute. That doesn't keep them away, and I do not want my little boy to have company every day nor do I want him to acquire the habit of wanting to run to the neighbor's. He thinks because they do I ought to let him. I wanted to drop their mother a little note and explain matters to her, but my husband said, "No, they'll quit after a while." When I ask the little girl why her mother never comes with her she either says she is taking a nap or is going to town. She never asks me to keep her children. She just simply sends them and no thanks. Furthermore, she is not a neighborly neighbor, she never pays me a visit, but will nod if she meets me anywhere. Now it is my aim to get rid of having her children next summer if I have to say something that will cause harder feelings than now exist. I hope to hear from someone who has been tried as I am tried in this case.

Now who will help Mrs. Lula Illinois? Surely some one can propose some remedy for this unpleasant state of affairs. At the same time will some one say something as to the advisability of allowing children to

spend much time at the homes of other children? Is such a practice good for children or otherwise?

"Undecided" comes to us with a young woman's problem, an important problem it is, too:

I am here seeking advice, good advice from someone with experience, if possible. Would it be wise and all right for a girl of twenty-six years old to marry a man of forty-five years? Both love each other. He don't appear old and is a gentleman in every way. The girl is one of the quiet, home-loving kind. The mother of the girl thinks there is too much difference in the ages.

When "Undecided" was born the man who asks her hand in marriage was on the verge of manhood; when she reached the verge of womanhood he had passed on into the mature pleasures and duties of the man nearing forty. Do these facts make their marriage advisable or inadvisable? Theories are good, facts are better. Let us have both. If we can hear from those who have thought and observed, that is well; let us also hear from married persons who are the seniors or juniors of their partners and so make the answers to this request broad and vital.

Meat is so expensive latterly that those who have it to buy seek for substitutes and those who have it to sell are tempted to sell everything, thus also requiring substitutes, so listen to Mrs. A. N. H.:

I have been a reader of this department for many years, but have never written anything for it. I have gained so much good from it that I think the friends can help me again. First I would like to tell the friends Among Ourselves how I cook oatmeal and we think it just right. Put oatmeal in kettle then pour boiling water over and set kettle (if you haven't double boiler) where it will not boil too hard, and boil from three to five hours; the longer oatmeal cooks the better. We often cook ours over night in winter instead of cooking it the day before and reheating it. More oatmeal should be eaten than is. It is rich in food nutrients, as is proved by the fact that Scotch shepherds live on it and thrive.

It was not intended so, but this is really a contribution to the discussion proposed last week. Let the ball go rolling merrily along. We could hardly talk of a subject of greater interest.

Another contribution in this direction comes from Mrs. Otis Brown, who comes to tell us of how to make hominy:

Hulled corn or hominy is an addition to the bill of fare and is easiest kept in cool or cold weather. Take six medium-sized ears of corn, white is nicest, but any other color will do, shell off the tips and throw away; then shell the remainder. Place in the iron kettle and cover with water to the depth of three or four inches then take one heaping teaspoonful of powdered lye to two ears of corn, place on stove and boil about fifteen to twenty minutes then dip out a little into cold water and if tips and hull come off very easily take to the well and wash the lye all out, take the hands and rub the corn until the tips are all removed, then cover with water and drain off the tips. It will require lots of water. If you wish, soak over night in cold water, but if not, boil and drain off twice when it is then boiled until tender. Salt to taste. Place in a stone jar. It can be eaten simply in milk, but is improved by adding two or three tablespoonfuls of cream to the amount wished for one meal. Set it on the stove until it boils, when it is served hot. Try it once and you will be sure to again.

Corn is a valuable meat substitute, especially in cold weather. Let us hear from some one who makes corn bread, which everyone praises, and from some one who makes good mush. These two articles of diet are delicious when properly prepared, but anything but palatable as they are sometimes served.

A friend who is interested in poultry thinks it would be a good thing for us Among Ourselves to give attention to some hints sent out by the poultry department of the Missouri Agricultural School. I agree with her and so gladly give place to the following:

It will pay every farmer who has thoroughbred poultry to select a few of his best-shaped females, his best-colored females, his best layers, and mate them in a pen to themselves with his best male bird, one that is strong in every point where his females are weakest. It will pay them to buy one good cockerel and pay several dollars for him and mate him in this way, than to buy six or eight \$1 cockerels and breed promiscuously. Set the eggs from

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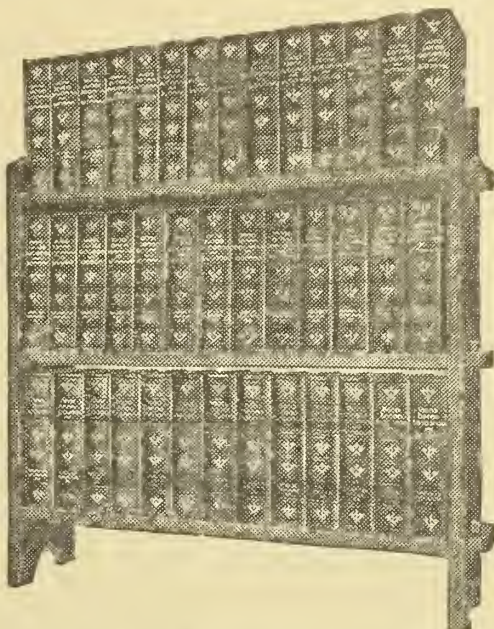
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this pen and you will be surprised to note the splendid results, and much better results can be obtained in this way than from promiscuous breeding from the flock in general. It will pay you to do this even if for only one month each year during the hatching season. A few birds properly mated will produce for you more birds than 100 not properly mated. It gives you more pleasure and more profit. What looks more beautiful than to pass one of our farm houses in the spring or summer season and see the lawn covered with beautiful birds of uniform color, size and shape? What looks more disgusting than to see a lot of old, runty scrubs upon this same lawn, all sizes, all shapes, all colors? Why should any farmer be so mean as to glory in his good horses and his fine cattle and then be content to put his good wife or some member of his family out in the back yard with a lot of old scrubs, and then complain if they do not pay all grocery bills, etc., with the poultry and eggs marketed from such stuff—which has not been bred for either meat or egg production, as most thoroughbreds have. Most of our farmers give us an excuse, that it costs too much to get started with thoroughbred poultry. This is not true, for most of them have enough old iron about their places, if it were gathered up and marketed, which would sell for

enough to pay for a sitting of good eggs or buy a trio of good chickens.

Two other hints we might well heed:

Where you find filth you find vermin—lice and mites. These two things cause a host of diseases, and right here is where the losses begin. Biddy can stand cold better than a draft in her house. She had better roost on the fence or in the trees than to roost in a house with a big crack near the sleeping quarters.

I notice that the poultryman who writes these notes recommends the use of the incubator. Why should not we have some incubator experiences within the next month? So many of our circle are interested in poultry that it is a decidedly interesting topic for discussion.

Through error the date closing the contest articles on "Our Garden" was announced March 20th. It should have been February 20th. The best that can be done now is to make it March 1st, which date it will be. Hurry up your articles.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Fennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson IX.—Matthew VII., 13-29.

February 27, 1910.

FALSE AND TRUE DISCIPLESHIP.

Macaulay says of Pitt that he could pour forth a long succession of statey periods, without premeditation, in a voice of silvery clearness. Perhaps he reached the zenith of oratorical fame in his speech on the abolition of the slave trade. Fox, Gray, Windham, contemporaries and themselves adepts at the art of speaking, agreed that it was the most extraordinary display of eloquence ever heard. Where is that speech? A memory only! We have an American analogue in Webster. There he stood before an entranced congress, his very soul blazing in those deep caverns below his marble brow, as he poured forth his "Reply to Hayne." "His statement was argument, his inference, was demonstration." Where is that speech? Just a memory, though only two generations have passed since its delivery. But some one will say Jesus only borrowed his aphorisms of the rabbi, after all. They will put the Talmudic sayings in parallel column with those of the Messiah, and thus discount his originality. Put those rabbinical maxims back into their context, however, and you almost invariably find them on a lower plane, and often moving in a direction opposite to the teaching of Jesus. Again, if Jesus taught the same truth as the rabbis, why, then, were they offended with him? He may have used the modes of speech current in his day, but it must be admitted also that he made them the vehicle of a diviner meaning. Apart from, infinitely above, the rabbi on the one hand and the Essene on the other, Jesus stands the original and unceasing teacher of the race. He speaks with authority to the universal human heart, illuminating, inspiring, empowering it. He is not a channel through which truth flows, perturbed, perchance, and corrupted with human prejudice and error in its passages. So he could say not only, "I speak the truth," but, "I am Truth." He is the original source, not the transmitter; a foundation, not a conduit! Again, he is not the institutor of a system of doctrine, not the formulator of a ritual. He comes to inspire a life in the soul, to set up a kingdom within, which consists not in the externalities and comparative trivialities of sacrifice and oblation, but in that indispensable righteousness whose concomitants are peace and joy. So he could say also, "The words that I speak unto you, they are spirit, and they are life."

The Teacher's Lantern.

An all-night vigil of meditation and prayer was Jesus' preparation for two supremely important acts: First, the choice and ordination of his apostles; second, the delivery of his most extended discourse. St. Augustine originated the theory of a two-

fold sermon: one on the mount and the other on the plain; one to the church and the other to the masses. The theory is designed to reconcile the accounts of Luke and Matthew, and to cover what seems to some a premature enunciation of doctrine to the people at large. The theory seems a supererogation. No part of the sermon is esoteric or confidential. It is the enunciation of a public program of doctrine and duty for the whole people. And there is a spiritually correct and true harmony between Luke and Matthew. The excellent glory of Jesus' teaching is that he carries the law into the inmost part. He preaches nothing external. He wants the spirit of the law infused into the heart. Nothing short of this constitutes a disciple of Jesus. Objection has been raised against the Sermon on the Mount that it does not enunciate the doctrine of the new birth. True, it does not do so categorically. It does so inferentially, however, and beyond question. The corrupt tree must be transformed, made entirely new, before it can bring forth good fruit. A man must be a new creature before he can begin to exemplify the Spirit Jesus enjoins. Twenty centuries ago a young Galilean rabbi began to speak to an unsynagogued multitude. That first congregation soon disappeared. But it was first of many that were to follow. Each generation has furnished a new audience. So the Sermon on the Mount is no dream of an eloquence now hushed. It lives today. It is in every dialect of earth. Nothing in written speech surpasses it in potency. It is known by heart by millions. It is the rule of life for the human race.

DRESSMAKING—No. 65.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

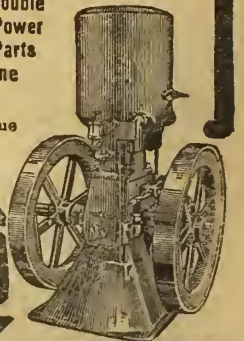
Girls' dresses that are made in jersey style are exceedingly becoming and exceedingly well liked. This one is novel and attractive and can be treated in two quite different ways. As illustrated the skirt is joined to the jersey portion, making a one-piece dress, but if preferred the jersey portion could be finished separately and the skirt joined to a body lining. White serge with yoke of baby Irish lace are the materials illustrated, but all those that are used for girls' dresses are appropriate, for the model is equally well adapted to the dressy frock and to the one designed for school wear. Cashmere is a satisfactory material, plaids and checks are well liked and very shortly linens, piques and the like will be in process of making and the design will be found especially well adapted

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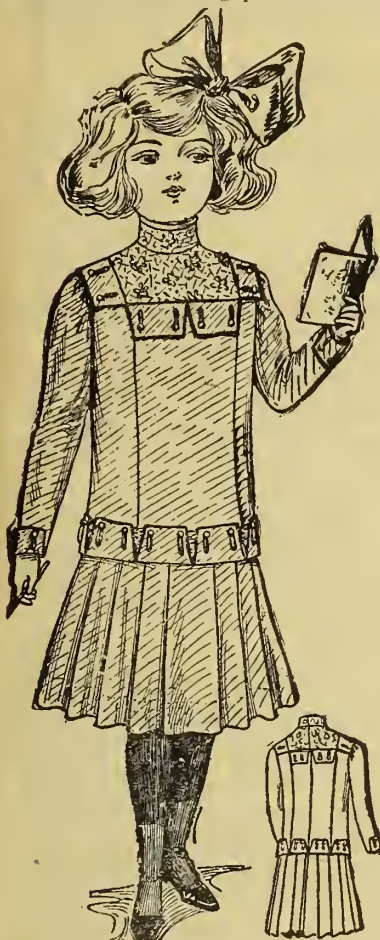
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to them and to other washable materials.

The dress consists of the jersey portion and the skirt. The jersey portion is cut in tabs at the lower edge which are faced and turned over to form the trimming. The skirt is straight and plaited. The trimming portions on the



[6547 Girl's Dress, 6 to 12 Years.]

waist are separate and are attached and the simple sleeves are made with upper and under portions. If the jersey portion is desired separate the skirt can be joined to a second body portion, preferably cut from thin lining material.

The quantity of material required for the medium size (10 years) is 5½ yards 24 or 27, 4½ yards 32 or 3½



[6548 House Gown or Wrapper, 34 to 44 Bust.]

yards 44 inches wide with ¼ yard of all-over lace, ½ yard of silk for piping and trimming.

The pattern 6547 is cut in sizes for girls of 6, 8, 10 and 12 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

The simple plain house gown is al-

ways a practical one. This model is graceful and becoming, yet perfectly simple withal. In the illustration it is made from a pretty dotted challis held by ribbon ties, but it will be found in every way appropriate for washable material and also for the slightly heavier ones of wool. It can be made either with full sleeves or plain and it will be found a most valuable addition to the wardrobe. The straight, slightly full fronts give long and becoming lines and the fitted back is in every way becoming.

The wrapper is made with fronts, backs and side-backs. The turned-over collar is joined to the neck edge. The full sleeves are cut in one piece and are gathered into straight cuffs and the plain sleeves are made with upper and under portions.

The quantity of material required for the medium size is 10 yards 24, 27 or 32 or 6¼ yards 44 inches wide when material has figure or nap; 7 yards 32 or 5½ yards 44 inches wide when it has not.

The pattern 6548 is cut in sizes for a 34, 36, 38, 40, 42 and 44 inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

BE LIVELY ON THE FARM.

In a speech before the homemakers' conference in session at Columbia, Mo., F. B. Mumford, dean of the college of agriculture of Missouri, advised the farmers' wives to urge their husbands to organize for their mutual benefit and social advancement.

"Something is wrong in Missouri today," said Dean Mumford. "When men are able to enjoy a little leisure they move from the farm to town. They give as their reason that they want to educate their children, but in fact, that is only an excuse. They go to enjoy more social advantages than are in most rural communities."

"The farmers ought to mold their community so that they will have that social advantage for themselves and children that is more healthful than many town communities and stay with the country."

"The country churches and rural schools may not be much changed by the improvement of roads. I know of churches already abandoned and the rural school is the same as forty years ago. I favor good roads, but they will not solve all the problems of the farmer."

"Missouri has more farms separated from villages than any other state in the Union. There are 282,000 of them. On these farms is possible the highest type of social life. The farmers are missing their opportunity when they fail to recognize the natural advantages they have."

Miss Alice Kinney spoke about the establishment of playgrounds for country children. Dean Mumford said that town children are more alert than the country boys and girls and are able to enjoy more forms of play. Miss Kinney urged that every schoolhouse yard should be made a playground with proper equipment for the amusement of children of all ages.

Miss Kinney is a successful woman farmer. Although she personally oversees her hundreds of acres, she takes time to go twenty-one miles twice a week to give music lessons free to the children of the public schools of New Franklin, where there is not enough revenue to provide a paid instructor in music.

To the women Miss Kenney said: "It is not work that kills the country woman; it is the monotony of the work. I hope each mother here will make a pledge to become interested in the work for playgrounds for country children and begin a movement that will establish such grounds in the home district."

A Missouri paper prints this information about keeping youngsters on the farm: "The boy who is yanked out of bed by the hair, kicked out to milk and cuffed in to breakfast, as a preliminary to being popped through in the field all day, is not likely to be consumed by his love for the glories of agriculture. Give the boy a fair show, and he'll stay with you till the cows come home. If you are so harsh he can't stay at home, don't you go to your neighbors with a hypocritical snuffle and tell about your boy's ingratitude after you have raised him."

A Kansas farmer can do well at present prices by selling his farm, but the Lindborg News insists that he can do still better by keeping it.



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Every Family Should Have One It is very simple and easy for any reader of this paper to get one of these splendid money-saving Wonder Oil Lamps without its costing a penny. Every family in the land should have this lamp. Made of solid brass—beautifully polished—highly ornamental. You should have one for your family, because the Wonder Oil Lamp is by far the best and most economical illumination in the world. Under my plan you can easily get one free.

Get My Special Free Trial Offer I want you to try the Wonder Oil Lamp in your home at my risk. Use it a week. Read and sow by it. Compare it with your old lamp. Test it in any way you please, and then make up your mind to keep or return it. Write today for my special offer. Send no money, but just your name and address, and I will at once send you, free, full description of the Wonder Oil Lamp, letters from scores of users, proofs of big money made by agents, and

I will tell you how to get the lamp free for use in your own home.

W. H. Hoffstot, President, United Factories Company
Largest Lamp House in America.
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If you had a pair of rubber boots made to order, you couldn't have them made any better than



The Century Boot (Gold Cross Brand)

No matter how carefully they were made, you wouldn't secure a better wearing boot. CENTURY Boots are made of fine rubber—the best rubber produced in the world. The vamp is made extra strong by forcing, under powerful hydraulic pressure, rubber into the best quality of canvas duck. To prevent cracking at the ankle (like ordinary boots) an extra pure gum, no-crack ankle reinforcement is used.

Century Soles are made of the toughest compound known. This sole is so compounded and vulcanized that it will rebound when it strikes a hard substance rather than chip off, as the soles of an ordinary boot would do.

Century Boots Are Cheapest

because best—best in material, best in workmanship, and best for wear. Look for the name Century and Gold Cross on the boot. When you want any high-grade satisfactory rubber boot or shoe, ask for the Gold Cross line. It insures you quality and service.

If you can't secure CENTURY Boots from your dealer, write us and send his name, we will see that you are supplied.

The Beacon Falls Rubber Shoe Co.

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Look for the Gold Cross



Trade Mark

Grow 100 Bu. Corn



BY PROPER PLANTING

with Keller's Rotary Corn Planter Gauge.

You can't go wrong with this device. Just clamp a set of these gauges to the runners of any make of corn planter, and you've got an "Ironclad" guarantee of a bigger corn crop. Where you've been getting 60 to 80 bushels, you'll then get 80 to 100, and do the planting quicker and easier than you ever did before. The gauge wheels make the shoe cut just so deep, no matter what the speed or how uneven the ground. No planting too deep by ramming through ridges, or corn dropped on the ground by sliding over furrows. All your corn will grow because planted just right, and every acre you harvest can be made a hundred bushel acre, by using Keller's Gauge. Price \$5 per set delivered to your nearest railroad station. We want to convince you by the words of scores of corn belt farmers, that Keller's Rotary Corn Planter Gauge has solved the problem of 100 bushel corn. We also want to send you a special and very attractive money-making proposition which will put dollars in your pocket, and yet won't take one hour of your time or work. Free Booklet tells all—get it to-day; no letter needed; just clip this ad and send with name and address to

P. O. KELLER MFG. CO., Waterloo, Iowa

QUEEN GALVANIZED IRON CUPOLA

Gives perfect ventilation in your barn—saves you money—constant up-draft gives fresh air circulation for your stock. Rain and snow cannot beat in and spoil your hay and grain—birds cannot get in. Costs less than wooden cupola; fits any barn; easily put on; each cupola furnished with gold leaf weather vane. Write for full information and prices.

SOBOLIK & PETERSEN,

Dept. 3.

CRESCO, IOWA





THE YOUNG FOLKS

A Young Cotton Picker.

I have five brothers and four sisters, and a brother and a sister dead and gone to heaven. I go to school, where I am in the fourth grade. For pets I have a little black dog whose name is Pat. I enjoy picking cotton and can pick over 200 pounds a day and help my papa and mama do the work. How many of you cousins like to go sleigh riding? I do, for one. I like to go hunting and chase the wolves and Jack rabbits.

Henry Litton.

Saw Her First Indian.

I went to the Buffalo Bill show this fall at Leavenworth. It was fine and I enjoyed it. I saw the first Indians I ever saw, also the first elephants, camels and the finest horse races and fine horseback riding.

Bessie Seltman.

Doesn't Like His Teacher.

I don't like my teacher very much; she is not very good the best of times, and she is awfully hard on Joe, my brother. I am ten years old and in the fifth grade. We walk to school every day and we live two miles from it. I go to school in town. The number of the district is 17. We live one mile and a half from another school that is in the country, but we do not go to that school. We have seven cows to milk and mama milks four and I milk three. We get through milking at eight o'clock. I have to get wood and coal before I go to school. We get up in the morning about half-past five or six, and I start the fire. We have our breakfast eaten about half-past seven and so we get through milking at eight o'clock. Then I help mama separate the milk and then I go to school.

Wylie Bresnahan.

A New Game.

I want to tell you about a new game called "The Fly Family." I think it is such a nice game that I will try and tell you how it is played. We played it one night and all enjoyed it very much. Mama was appointed to introduce each one to the Fly family and Aunt Anne's name was Mrs. Let Her Fly. She held a towel in her hand, one end of which was wet, and she stood at the end of the row. Above her were all the different kinds of flies, such as horse fly, deer fly, firefly, etc., but what amused us most was when mama was introducing each person to the flies, she would always forget little cousin Ruth's name, which was "Butterfly," just to hear her say, "I am Butterfly" and then laugh, for she is not quite four years old yet. So it went all the way down until it came to Mrs. Let Her Fly, and when the person introduced would say, "Pleased to meet Mrs. Let Her Fly," Aunt Annie would up with the wet towel and let it fly at his face until he had enough, for that is the trick in the game. Then that person would take the name of some fly and stand at the head, and so on until all were introduced.

Mamie Garvin.

Never Missed a Day.

I live in the village of Batavia, Wis., on a small farm, and my papa is a cattle buyer. I have four sisters. The baby is a sweet little thing with black hair and blue eyes. I am the oldest. I am ten years old, and go to school every day. Two of my sisters go to school also. I am in the fifth grade. We have about thirty scholars in our room. I have not missed a day of school yet this year and last year I got a nice prize from my teacher for not missing a day. We had a week's vacation. Two of my sisters went down to my grandpa's for a few days and I wanted to go along but I had to stay at home and help mama take care of the

baby. We are not going to have any school today because my teacher's grandma died and she is going to the funeral. I have two grandmas and one great-grandma, but my grandpas are all dead. I go to a German Sunday-school. Camilla Melius.

Duties to Parents.

Well, here I come with an essay on duties which I owe to my parents. First is obedience. There is a law that requires our parents to educate our minds and the same law holds all of us responsible. How can my parents educate me if I will not obey them? We may think there is no law that requires anything on our part, but listen, boys: "Obey your parents in the Lord, for this is right; and again, obey your parents in all things, for parents are not going to tell you anything they know is not right." To disobey a parent is to be guilty of a double crime. It is violating the laws of the household and of God, and now, boys and girls, if your parents are in the ground do not cease to be grateful for all past blessings.

Lynn Davis.

Carlo, the Shepherd Dog.

Carlo is a shepherd dog. He is yellow and white. He likes horses. He will jump in a wagon when it is going. He has long hair and beautiful brown eyes and has a white spot on his head and a ring around his neck. His legs are white which makes him look like he had stockings on. I often play with him. I lead him by a little rope. Carlo will bark when any one comes into the yard. One time he followed papa to Kansas City and got lost and he followed the horse's tracks and when he found papa he was so hungry that he ate a turnip. He likes to follow papa when he is at home. He is eight years old and is two feet tall. He likes to hunt with papa, and catch rabbits. He likes to drive the cows, but papa says he bites them. He likes milk to drink. I made him a bed on the porch the other day when it was cold.

One day last fall my little sister Jewell and I, started into the woods to play in the leaves. We had just got into the woods when we saw a big hog. Carlo ran after him while I got Jewell through the fence. I think Carlo likes me because he won't let anything hurt me, and I like Carlo. We used to have some harness and a little wagon. We had to go about 100 yards to get water and we would hitch Carlo up and put a can in the wagon and go. I went to the well one day and as I was coming back the harness broke and the water was spilled. Carlo looked like he was sorry and put his head down to the ground and came on to the house. Carlo is a good dog.

Ruth S. Layton.

A Horseback Ride.

I am a farmer's girl, thirteen years of age, four feet, ten inches in height, have brown hair and brown eyes and am fair complexioned. Having gained papa's consent I made up my mind to ride a two-year-old horse that had never been ridden before. It acted perfectly gentle while I placed the saddle on, but when I started to get on it began to buck. It started to run just as I got it into the lane. The lane being one-half mile long, it began to slow up before getting to the turning point, though it was a continual jump and run until I reached grandpa's farm. Seeing a crowd of girls skating, I tied the horse up and joined them. Just about the time we had become deeply interested in the sport I caught sight of the animal going at full speed toward home. Of course we all rushed after it but soon gave up the effort to catch it.

Elsie Lacy.

"Shocking Facts" on Lightning

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Investigate "Shrauger" Pure Copper Cable Rods and handsome fixtures, and how we guarantee them to you from the factory.

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Get 10 Bushels More Oats Per Acre Using The New Peoria Drill

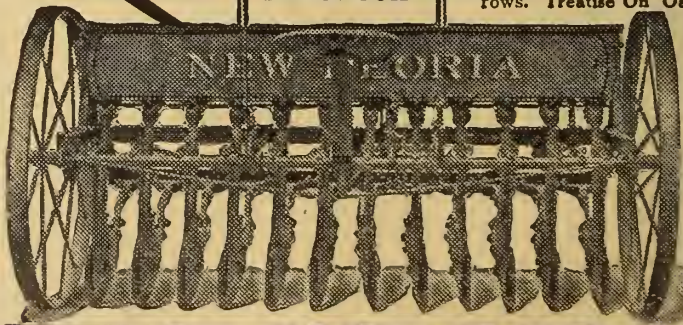
You can get these results, and with a saving of one-third on the seed, because our disc deposits all the seed in the furrow and properly covers it. No seed is left on top, subject to the weather or for the birds to pick up. Every seed sown by the Peoria Drill counts. Send for the proofs.

The Peoria is equally superior to all others in time and labor-saving features. It has two levers instead of only one, making it extremely easy for driver to handle. Levers are handy to the seat, making regulation of depth so simple that a boy can operate the Peoria with ease. It is the only drill with a drop frame, making it the strongest and simplest made. Has fewer parts than any other. We guarantee to furnish free any disc bearings that wear out.

High Wheels—Light Draft—Double-Run Feed—Sows all Varieties of Small Grain; Also Corn, Peas, Beans, etc., Without Injury To Seed.

Other drills have wheels 42 inches or 44 inches high. Ours are 48 inches, with long hub and wide tires. Means easiest pull. Made in 18 sizes—one for every man's needs. The practical size for Iowa and Illinois farmers is the 12-7, which sows 7 feet and covers 2 corn rows; or the 18-7, which sows 11 feet wide, covering 3 corn rows. Treatise On Oats Raising—Free.

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Send postal now for this valuable book, also catalog of Peoria Drills and opinions from men who know by experience what this drill will do. Address

Peoria Drill & Seeder Co.
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Get Wholesale Price on this Ball-Bearing Pitless Scale

A postal gets all facts to prove how much you need this scale on your place every day. Don't let them rob you on weights any longer. You'll save enough in one season to make this scale more than pay for itself. Our book shows how to

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right at the start. Tells about the ball-bearing feature, which gives freedom of movement and prevents binding and clogging. 60 days' free trial and full 10 years' guaranty. No pit to dig—no wood needed except for floor. Write to nearest address today for information and low, direct wholesale price.



INDIANA PITLESS SCALE CO.

Box 15 A New Castle, Ind.
Department 15, Kansas City, Mo., Station A.

10 CENTS A POUND FOR HOGS

Don't sell your hogs for 6 to 8 cents and buy poorly smoked meat from Meat Trust at 20 to 30 cents. Butcher your hogs, salt and smoke the meat yourself, sell the hams and bacon not needed for your use and make 3 or 4 times what you do now, besides having better meat. The extra profit will pay for what you use. No smokehouse necessary.

USE WRIGHT'S CONDENSED SMOKE

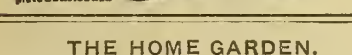
Gives the rich aroma and delicate flavor of hickory smoke to the meat, therefore secures highest prices. Keeps the meat sound and sweet indefinitely, and free from insects. Applied with a brush; twice over is sufficient; entirely absorbed; penetrates meat thoroughly. A 75-cent bottle smokes a barrel of meat. Guaranteed and sold under Pure Food Law, Serial No. 541. Beware of imitations; secure the original and genuine.

Write for illustrated free book, "The New Way." Wright's Smoke guaranteed and backed by our \$250,000 capital. Money back if you want it.

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FREE SAMPLE BOTTLE


Ask your druggist for free sample bottle. If he cannot supply you, send 10 cents and names of five who smoke meat. We will send you, prepaid, sample bottle sufficient to smoke 10 lbs. of meat.



With Water Front For Pressure Water Heating

Body made of charcoal iron. can't break or crack

The Washer That Can Wash a Tub of Clothes Snow White in 1:55 (ONE MINUTE AND FIFTY-FIVE SECONDS)



Lice and Parasites Cost \$175,000,000 a Year

according to the report of the United States Department of Agriculture. What the death loss is, due to poisonous germs of disease, can hardly be estimated.


The cry everywhere is clean up, disinfect, destroy all forms of parasites.

Dr. Hess Dip and Disinfectant

Deodorizes, purifies the air, kills all forms of disease germs in barns, hog pens, cow stables, chicken yards, sinks, drains, etc., simply by sprinkling it everywhere. One gallon diluted makes from 70 to 100 gallons. It also kills lice, mites, sheep ticks, fleas, also sheep scab, mange, eczema and other parasitic skin diseases. Meets the United States Government requirements for official dipping for sheep scab.

If your dealer can't supply you, we will. Write for circular.

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Ashland, Ohio.



BREEZE 7 Handsome Models \$275

Travel the worst roads And Motor Vehicle with ease and comfort Up.

SEND FOR CATALOG "O"

The breeze is strong, simple, speedy and safe. Best motor vehicle built for country roads—mud, deep sand or high hills. 13-18 H. P. engines. Lowest cost of up-keep, least tire trouble. Handsomely finished.

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We Trust Farmers

BECAUSE our goods have merit. Send your address for free circulars of farm implements and handy things for the farm. State how many acres of corn and oats you cultivate.

Wenzelmann Mfg. Co., Galesburg, Illinois.

SHEEP.



SHROPSHIRE EWES

BUYING registered bred ewes pays if you get the largest and most typical, which raise rams good enough to build a trade. We offer young bred ewes that will make you money. Photos and full description. Won champion ewe, champion flock, recent Chicago International, Near Des Moines.

CHANDLER BROS.,
Charlton, Iowa. Shrewsbury, England.

Ewes for Sale

THE IOWA STATE COLLEGE is offering for sale 50 head of pure-bred and grade ewes, mostly Shropshires, at very reasonable prices. Address


DEPARTMENT OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.

Pine Ridge Shropshires One thousand ewes bred to the very best imported rams money could buy. These rams are prize winners, personally selected from the best English flocks last July. Prices reasonable. Write for free booklet, "Hints on Sheep Raising." Address owner, L. M. Hartley, Pine Ridge Farm, Salem, Ia.

Registered Shropshire Rams and Ewes For Sale. The best of breeding and quality. Best imported rams at head of flock. Willard Miller, Anita, Iowa.

LOSING OUT SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. W. C. Frazier, Atlantic, Cass Co., Iowa.

SHEEP



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

PROGRESSIVE FARMERS TAKING UP SHEEP.


To the Editor of The Homestead:

Farmers of today are progressive and are anxious to learn of any new

makes me call certain farmers progressive they are not leaving any little stone unturned. These men are not going into business in a haphazard manner, but have their plans well made for the

ANOTHER BROOKMONT ANNOUNCEMENT.

The Brookmont Farm, at Odebolt, Iowa, places an advertisement on page 48 of this paper that should not be overlooked by any breeder of Hereford cattle, or by any farmer who contemplates making the raising of beef cattle on his farm a special feature. The announcement should appeal to the latter class with considerable force, because the offering is of just that character which in the past has been most productive of the highest results in the production of beef-making animals. The blood lines involved are a guarantee that this feature will be continued in the cattle sold and in their future produce. Of great interest also is the fact that the herd has but just recently undergone another searching test for tuberculosis, under the supervision of one of the most expert veterinarians in the application of the tuberculin test. The eighty cows and heifers and twenty bulls that have been cataloged for this sale have undergone this test successfully several times and are sold under a guarantee to be perfectly free from that dreadful disease. Do not forget this fact in giving consideration to the subject of buying breeding stock. It is of intense and absorbing interest. Lest some readers may have overlooked previous announcements we wish to again give publicity to the fact that this sale is made purely for the purpose of reducing the size of the Brookmont herd to the capacity that now remains. A considerable proportion of the great Brookmont Farm having been sold, the 100 head that will go under the hammer of the auctioneer on March 15th are as good as remain on the farm. With something like 1,000 head to select from, and they possessing a remarkable uniformity, it goes without saying that the consignment will be one of a most pleasing character. A recent sale at which the bulls brought an average of close to \$200 is certainly evidence of the truth of these statements. Those that go into this sale are just as good in every respect, carrying practically the same lines of breeding and are worth just as much money. They, as well as the cows, are many of them the get of that great, old Imp. March On, whose influence throughout the entire Hereford-breeding community of the United States has been second to none. Their sire is good and their progeny have ruled the greatest shows, have assumed the highest position of breeding animals and on the farm of the beef producer have fulfilled every requirement. It was an endeavor to set forth just these requirements that induced Mr. Cook, of the Brookmont Farm, to place unlimited amounts of money in the great March On and other cattle having the same marked tendencies. It should not be forgotten that the Brookmont Farm is one of the greatest sources of Hereford blood in the United States. It has been the home of more than 300 head of the choicest animals imported direct from Herefordshire, England. In addition to this the march of improvement has been kept up by the use of sires imported and home bred, carrying the strongest strains of the most popular blood and having individuality beyond question. Full information concerning this great sale will be given in later issues of this paper. In the meantime, however, copies of the catalog may be had by writing Mr. A. E. Cook, Odebolt, Iowa.



Imp. March On 76035.

methods of management which would benefit them. Great changes are noticeable in our agricultural communities from the conditions which existed but a few years ago; land has raised in value and farmers are endeavoring to get the largest possible return from it. Seed is selected more carefully and crops looked after closely. But permanent agriculture must include more than exclusive grain farming. Mixed farming, which involves stock, is the most successful and permanent system for the corn belt. Attention has been given so much to grain farming because the profit came quickly and in many instances was large.

But there is a part of live stock breeding from which profits come quickly and large; it is raising pure-bred sheep. Many progressive farmers are commencing to breed a few pure-bred sheep because a similar investment in them will yield larger returns than in anything else on the farm. From a winter purchase of bred ewes the wool brings a good income within three or four months and the ram lambs are for sale the following autumn.

I might mention an instance of last winter where one farmer bought \$225 worth of pure-bred ewes. From them there were eight ram lambs and four ewe lambs, also \$32.40 worth of wool. The ram lambs were sold in the autumn for \$140 making a cash income of \$172.40, and four good ewe lambs in less than one year from an investment of \$225. The feed amounted to very little.

Making such investments is what

future. The first investment is of \$100, \$200 or \$300; then the ewe lambs are kept and the ram money is put back into more bred ewes. In a very few years there will be quite a good-sized

pure-bred flock, and there are many in the corn belt today which are yielding an annual income of \$1,000 to \$2,000—all from the first investment of \$100 to \$300. The wool more than pays for the upkeep of the flock. Many young men have been started along the right path in live stock breeding by their first getting a few registered ewes. It is a different proposition than paying \$500 for a pure-bred mare and not getting returns for two or three years. A smaller investment in the ewes would soon buy the mares, some cows, and pigs. In the future more of our farmers will say that a few ewes helped them make their start when young. In the beginning money is not too plentiful and running expenses must be kept down until there is income. Sheep fit in right there; the first cost is not heavy, a flock is easily kept, and good returns come soon. And even the larger successful farmers keep close observation on such things and are learning of the advantages of having a few pure-bred ewes.

Howard A. Chandler.



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A Great Invention

Made for 2, 3, 4, 5 or 6 horses. The HEIDER 4-horse Plow Evener works four horses abreast on gang, sulky or disc plow. Works free, no side draft, all horses pull equal. We make clevises to attach our Eveners to all plows. HEIDER 3-horse Wagon Eveners for wagon, manure spreader, grain drill or any other implement with pole. GO TO YOUR DEALER, if he can't supply you don't accept any other. Write us for catalog and we will tell you where to get them. We also make Wagon Doubletrees, Singletrees, Neck Yokes, etc. Insist on getting HEIDER'S if you want the best in EVENERS.

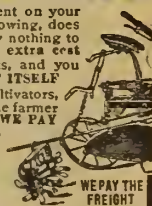
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FREE HARROWING ATTACHMENT

An American Harrowing Attachment on your sulky plow or gang saves one harrowing, does the work better and adds practically nothing to the draft. You can get one without extra cost when buying American Implements, and you SAVE MONEY ON THE IMPLEMENT ITSELF. Our Walking Plows, Disc Harrows, Cultivators, Sulky Plows and Gangs are sold to the farmer at a big saving in price. BESIDES WE PAY THE FREIGHT and every implement is guaranteed on the money-back basis. Write for large Free Implement book and get all the particulars.

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FARM WAGON COVERS

Farmers who have bought them say that they pay for themselves in less than a month. Every farm or needs a 6x12 Slickerine waterproof wagon cover. They only cost \$4.40. Write today.

Peoria Tent & Awning Co., 119 Main Street, Peoria, Illinois.



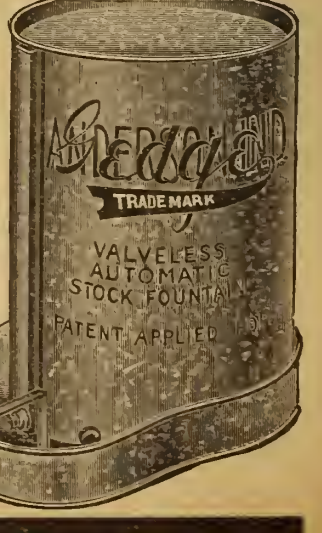
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Learn how pure water increases hog profits—how the Gedge Stock Fountain supplies your small stock with all the water they want—just when they want it. Sure and simple—no valves—no clogging—no dirt—no overflow. Holds enough water for 50 hogs for 48 hours. Get our book which tells what many farmers say about the Gedge. Read reports like these: "Does away with mud holes"—"Hogs do a third better"—"Would not part with it"—"Right watering as important as right feeding"—"Every Stock Raiser ought to have one"—and many others. Mail postal now for book and 15 day Free Trial Offer, no money down. Address—

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SOLD ON THE EASY PAYMENT PLAN
Will pay for themselves in a few years. \$300,000 worth sold in the past six months. We give you the names of 100 who have bought, for reference. Endorsed by the Governor. Refer to local banks. ALTURA FARMS, 210 Ideal Building, DENVER, COLORADO.

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240 ACRES, 80 miles south Kansas City, 7 miles to Nevada, county seat Vernon county, Mo. 3 miles to railroad town, close to school and church; all good land, 100 acres bottom, 40 acres wheat and timothy; good improvements; good orchard; 37 head fine two-year-old steers, 20 tons hay and 300 bushels corn included at the price; immediate possession; only \$50 per acre; good terms. Address owner

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COMPILED by the state, describing industries, crops, live stock, property values, schools, churches and towns of each county, and Minnesota's splendid opportunities for any man. Sent free by
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THE PROGRESS COMPANY,
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EASTERN KANSAS

I HAVE for sale at owners' prices over 300 choice improved farms in Lyon and Colley counties, in the beautiful and fertile
NEOSHO RIVER VALLEY
Fine corn, wheat, alfalfa, timothy and clover. Write for new illustrated descriptive circular. Mention The Homestead when writing. Address
ED F. MILNER, HARTFORD, KANSAS.

RURAL CARRIERS PROTECTED.

While for many years city letter carriers have been protected by federal statute from assault when in uniform and engaged in the performance of service, rural letter carriers have not enjoyed such protection. A new law became effective January 1st, which protects any carrier.

In speaking of the matter recently Fourth Assistant Postmaster-General De Graw said that considering the large number of carriers employed in the rural delivery service and the fact that many of them have to travel for miles over lonely highways, but few cases of assault have been brought to the attention of the department in recent years. The desired protection has been secured by a section contained in the revised federal penal code, which became effective January 1, 1910, which makes it a violation of the law to wilfully or maliciously assault any mail carrier, knowing him to be such, while engaged on his route in the discharge of his duties as carrier or to wilfully aid or assist in any such assault, under penalty of a fine of not more than \$1,000 or imprisonment for not more than three years or both. The enactment of this law and the severe penalties which are imposed are confidently expected to act as a deterrent on malicious persons inclined to assault carriers and reduce assaults to a minimum.

LOW COLONIST RATES TO PACIFIC COAST

Daily from March 1 to April 15
For daily and personally conducted tours, in tourist sleeping cars via the Chicago, Union Pacific & North Western Line.

For full particulars write S. A. Hutchinson, Mgr. Tours Dept., 212 Clark St., Chicago, or ticket agents North Western Line.

Mules like Paris green almost as well as they do sugar. Seventeen of the high-priced hybrids were poisoned in a Missouri pasture recently by Paris green, which was placed on the ground.

Smokers find Lewis' Single Binder 5c cigar better than many 10c brands.

WESTERN CANADA

Prof. Shaw, Well-Known Agriculturist, Says:

"I would sooner raise cattle in Western Canada than in the corn belt of the United States. Food is cheaper and climate better for the purpose. Your market will improve faster than you farmers will produce the supplies. Wheat can be grown up to the 60th parallel (800 miles north of the International boundary). Your vacant land will be taken at a rate beyond present conception. We have enough people in the United States alone who want homes to take up this land." Nearly

70,000 Americans will enter and make their homes in Western Canada this year. 1909 produced another large crop of wheat, oats and barley, in addition to which the cattle exports was an immense item.

Cattle raising, dairying, mixed farming and grain growing in the provinces of Manitoba, Saskatchewan and Alberta. Adaptable soil, beautiful climate, splendid schools and churches, and good railways. For settlers' rates, descriptive literature "Last Best West," how to reach the country and other particulars, write to Sup't of Immigration, Ottawa, Can., or to the Canadian Government Agent.

W. V. Bennett, Bee Building,
Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.
(Use address nearest you.) (8)

A GUIDE TO THE LAST WEST

THE 1910 EDITION IS NOW READY.
Send for a free copy. It describes our 100,000 acres choicest Farming Lands in the Tramping Lake and Houghton Lake districts of

Western Canada

It tells you how to secure a home or to make a profitable investment; tells of the great crops, low prices, easy terms; of the many reasons why you should investigate NOW, before it is too late. Our private car, the "TENZA," goes the 1st and 3d Tuesdays each month. We save you money on Fares, Meals and Berths. Write today for our free "Guide." Don't put it off. Address our Main Office, 240 Germania Life Building, St. Paul, Minnesota.
LUSE LAND & DEVELOPMENT CO., L'D.

GARDEN HOMES IN SUNNY COLORADO

With water guaranteed for all time. We own 16,000 acres within 5 miles of Pueblo, now ready for the plow, in tracts of 10 to 160 acres. Alfalfa, wheat, oats, barley, sugar beets, potatoes, cantaloupes, fruits and berries are grown here abundantly. Big demand for poultry & honey, from this district. On 5 transcontinental railroads. Good markets and shipping facilities. Finest climate in the world. Good schools and churches. Our selling plan and terms are the best. Write for illus. booklet, map, terms of sale and particulars relative to transportation.

The Teller Reservoir & Irr. Co.,
603 C No. Santa Fe Ave., Pueblo, Colo.

Chance of a Lifetime

Excellent farm of 960 acres Western Canada; two miles from good town, 700 acres broken, fair buildings, farm worth \$23,000; to close estate will sell for \$18,000; cash \$3,000, balance as you take it from the farm; a good farmer with good outfit can pay for this farm in five years out of its own profits; immediate possession. Apply at once.

HON. W. H. MONTAGUE,
Late Minister of Agriculture for Canada, 301 Kennedy Bldg., Winnipeg.

THE CHOICEST RELINQUISHMENT IN COLORADO, WELD CO., Greeley District. 14 MILES east and south of Greeley, where you cannot buy land under \$250 an acre. I offer for sale my relinquishment of 480 acres, coming under the best ditch in Greeley district, which will be completed within six or eight months, probably sooner. This land is rolling and lies well. Ideal for irrigating. One mile from railroad, town and postoffice; 62 miles from Denver. On account of other interests am unable to handle properly. Sell for \$7 to \$10 per acre. Divide to suit purchaser. Address immediately Perry C. Gartley, 4117 W. 30th Avenue, Denver, Colorado.

IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advance so rapidly in price. Illustrated literature. Write today. Eugene T. Thomson, Crawford Black, Sedalia, Missouri.

IRRIGATED LANDS In Colorado, under perfect ditch system. Unsurpassed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R. R. Superior local and foreign market. In tracts from 5 to 1,000 acres, at \$100 and up. ORDWAY LAND CO., ORDWAY, COLO.

STOCK FARM FOR SALE CHEAP 321 Acres; good house, barn and other buildings; 1/2 orchard, grove, best of water, well fenced; R. F. D. mail; telephone. Location, East Central Kansas. Price right. Terms to suit. Address owner; M. B. Hubbard, Idana, Clay County, Kansas.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

CALIFORNIA CAPTURES THE COMET

KUHN IRRIGATION PROJECT SACRAMENTO VALLEY

developed for you. Think about it. Fail to do so and you make the most serious mistake of your life. The Kuhns are irrigating 400,000 acres in the Twin Falls Country, Idaho. Following this great success they will irrigate 250,000 acres in the Sacramento Valley. They are spending millions to make little home farms for a million people. Settlers are arriving daily and will plant crops this season. Act promptly. Your eyes will be opened to wonderful possibilities.

H. L. HOLLISTER
DEPT. 1
205 La Salle Street
CHICAGO, ILL.

A BRILLIANT TRAIL OF FAMILY JOYS AND BLESSINGS
HOMES FOR A MILLION WHERE LIVING IS A DELIGHT
NEW TOWNS AND CITIES AND ENDLESS OPPORTUNITIES
LITTLE HOME FARMS THAT FEED THE FAMILY FAITHFULLY
FRUITS AND FLOWERS ALL THE YEAR AND ALL THE LUXURIES OF LIFE

Ask Your Friend

in California what J. S. & W. S. Kuhn are doing in the Sacramento Valley. Ask him to "put you wise." The greatest home-building and general development by irrigation are now under way. The opportunity may mean a fortune to you. The Kuhns are working to make every settler prosperous. We cannot tell all the story here. These are but hints to arouse your interest in the greatest home-making enterprise of the century in one of the most attractive valleys of the world. Send for free information. This project is right in every way,—water, soil, climate, people,—all the best. Study it. Buy now and have the farm home of your life. The Kuhns are irrigating 400,000 acres in the Twin Falls Country, Idaho. Following this great success they will irrigate 250,000 acres in the Sacramento Valley. They are spending millions to make little home farms for a million people. Settlers are arriving daily and will plant crops this season. Act promptly. Your eyes will be opened to wonderful possibilities.

800-ACRE STOCK AND GRAIN FARM

TWO miles two railroad towns; 2 miles to trolley line; 480 acres rich creek bottom and second bottom; black loam soil; does not overflow; best of corn, alfalfa and wheat land; 300 acres fenced hog tight, with good cross-fenced; two sets improvements; would make two good farms; No. 1 seven-room house; three good barns, good condition, room for 54 head of stock tied; never-failing well, soft water; three water tanks; 84-barrel supply tank; plenty bearing fruit trees; good housed stock scales and stock yards; 20 acres good timber, last a lifetime; never-failing supply natural gas to run all machinery, light and fuel. No. 2 improvements; good seven-room house; good water; good barn; barn 30x40, capacity 3,500 bushels grain, 12 tons hay; oat granary; cow shed; some fruit; one-half section pasture land; 200 acres limestone and 120 acres sand stone; grass; suitable to be made into a good farm; fenced with 4 galvanized wire; hedges, posts one rod apart. The natural gas sold from the 800 acres is \$1,000 cash in advance each year and free fuel for house. 175 acres fine growing wheat. The crops for 1909 will show the real value of this farm. It will be priced on good interest paying basis, one-half cash, balance time if desired, to suit purchaser; low interest; 200 registered cattle; 500 head hogs; all stock priced with or without farm. Want to retire from business. No trades considered. Come and see me.

R. M. DOBSON, OWNER, INDEPENDENCE, KANSAS.

RICH SPOT WHERE LAND IS CHEAP
BEAR RIVER VALLEY
We are selling lands in this beautiful section of Southern Idaho at from \$15 to \$45 an acre. This is one of the great land opportunities, as the soil of Bear River Valley has already broken several records in size of yield. We want to show you this land. Please ask us for railroad rates and complete information. Representatives of our company will be at the Chamberlain Hotel, Des Moines, Iowa, and the Merchants Hotel, Omaha, about three days before Homeseekers' excursion dates which are the first and third Tuesdays of each month.
BEAR RIVER VALLEY LAND CO.,
Box 200 MONTPELIER, IDAHO.

PRAIRIE LAND

Colorado Irrigated Land

22,000 acres of irrigated Government land in Southeastern Colorado has recently been opened for entry under the provisions of the Carey act. The State of Colorado has contracted with the Two Buttes Irrigation and Reservoir Company to construct the irrigation works for the reclamation of this tract of land, which is located in Baca and Prowers counties, close to Rocky Ford and other proven districts. Water rights are of incontestable priority and title to land comes direct from the State.

Price of Land 50 Cents Per Acre
Perpetual Water Right \$35 Per Acre
Payable \$5.25 per acre cash, balance in ten annual payments. The tract is nearer Kansas City and Mississippi Valley markets than any other Carey act project. Land free from brush and stone, and soil will average 50 feet in depth. Altitude, 4,050 feet; climate best in State; rainfall 16 inches; crops, all grains, alfalfa, sugar beets, vegetables and fruit; no alkali. Local markets for everything. No agents employed and no commissions paid. Farmers wanted, not speculators. For particulars write,

THE TWO BUTTES IRRIGATION AND RESERVOIR CO., LAMAR, COLORADO.

LAND OPENING

IN the famous Arkansas Valley, Colorado. Our irrigation system is one of the best, and our land as fertile as any in Colorado. A reasonable number of tracts now offered at \$30 per acre, with perpetual water right, on terms without interest. This land will quadruple in value within a few years. Close to R. R. and markets. Your railroad fare refunded if you buy. Write for map and booklet. Acts. wanted. MCKEN & BALCOM REALTY CO., 300 Kirtledge Building, Denver, Colorado.

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also 1/4 section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

with some timber. Best location in Canada for grain and cattle. Good climate. A PROVEN COUNTRY, with railroads, civilization and good markets. This is the place to make money. Come and see for yourself the fine weather, tall grass, big crops. Easy terms. Cheap excursions. Our map and folder explain Canadian conditions with absolute truthfulness. Write SCAND.-CANADIAN LAND CO., 172 Washington St., CHICAGO.

Free Trip To Colorado

THE LAND OF SUNSHINE WHERE APPLE IS KING

DELTA COUNTY shipped more fruit than any other county in the United States in 1909. Now is the time to buy an apple orchard on monthly payments, insuring an income for life. Full particulars about free trip will be sent to any interested person on receipt of coupon filled out.

THE GRAND VIEW MESA LAND AND ORCHARD CO. Lands, Delta County, Colo. Offices, 251-254 Colorado Bldg., DENVER, COLORADO.
Gentlemen: Kindly forward me particulars, about free trip to Colorado, where Apple is King.
Name
P. O. State

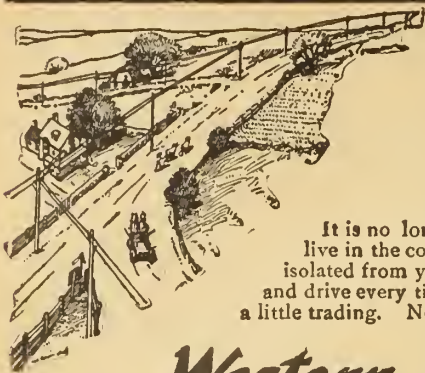
Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana In Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit; truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops. NO IRRIGATION SCHEME, 60 inches annual rain fall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Some thing growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. J. D. LaBRIE, Gen'l Land Agent Pineland Mfg. Co., 533 Keith & Perry Bldg., Kansas City, Mo.

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address
The Allen Co. Investment Co., Longton, Kan.

When writing to advertisers please mention this paper.



The Rural Telephone Brings the Whole Country Together

It is no longer necessary to feel that because you live in the country you must always be more or less isolated from your friends—that you have to hitch up and drive every time you want to chat with them or do a little trading. Nowadays, a

Western Electric Rural Telephone System

brings the whole country together. It puts a telephone on every farm at a cost so low everybody can have one. Less than half a bale of cotton or thirty bushels of wheat will pay for your part.

Everything about the system—putting up the poles—stringing the wires—connecting the telephones—is so simple that you and your neighbors can build the line in a few days. Think what it would mean to have your friends—your doctor—everybody, everywhere around—within talking distance at any time of the day or night.

All that you need do is to send us a postal requesting our free illustrated book No. 30, which explains how you and your neighbors can get all materials and build your own lines in a few days. Address nearest house listed below.



WESTERN ELECTRIC COMPANY

New York, Philadelphia, Boston, Pittsburgh, Atlanta, MONTREAL, WINNIPEG and VANCOUVER
Northern Electric and Manufacturing Co., Ltd.
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Bell Telephone Manufacturing Co.

Saint Louis, Kansas City, Denver, Dallas, Omaha.

San Francisco, Los Angeles, Seattle, Salt Lake City, LONDON
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PARIS
Société de Matériel Téléphonique

"Beats Em All for Making Money"

"I have run..... and many other machines, but the Wolverine beats them all for making money. I have put 216 pounds of dry straw in a bale and 175 pounds of hay." (Abstract from letter received. Name and address of party furnished on request.)

From "stem to stern" the Wolverine Hay Press is RIGHT. There isn't a dishonest or careless spot in its whole make-up. We have the biggest plant in the country devoted exclusively to making Hay Presses. The Wolverine has made an enviable reputation—and it is maintaining that reputation and increasing its facilities every year to take care of the growing demand.

A smooth, even, heavy bale comes from the Wolverine Hay Press. It is a fact that dealers will often pay more for hay put up in nice bales. It eats hay as fast as it can be handled by four men in a mow. It can be depended upon to work every hour in the day without a repair man constantly "tinkering" around. It is built for hard, long service.

Wolverine Hay Press

WOLVERINE CONSTRUCTION DEFIES DESTRUCTION

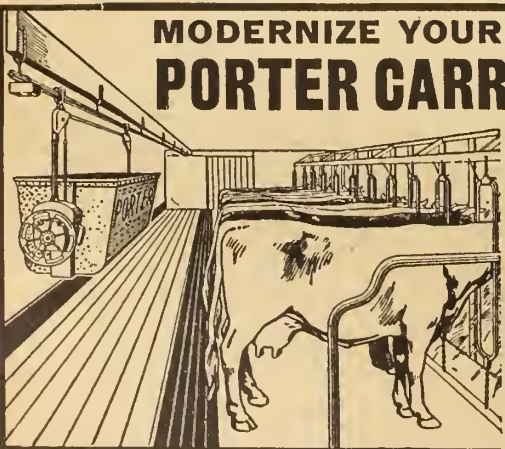
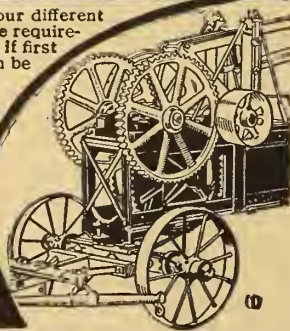
The Wolverine is built both with steel and wood frames, four different sizes, all with double gears, with various equipments to suit the requirements of purchasers. It isn't the cheapest Hay Press made, if first cost is considered, but it is the **cheapest baler in the long run** because there is an absence of repair bills.

Write FOR THE "Wolverine Book"

Every farmer will find many interesting and instructive things in the "Wolverine Book." A postal will bring this book to you. It's worth asking for.

Ypsilanti Hay Press Co. 207 Forest St., YPSILANTI, MICH.
Main Office and Plant
Advance Thresher Co., Des Moines, Ia.
Advance Thresher Co., St. Louis, Mo.
Advance Thresher Co., Decatur, Ill.
Advance Thresher Co., Kansas City, Mo.

AGENTS WANTED
Exclusive Territory — Liberal Terms



MODERNIZE YOUR BARN WITH A PORTER CARRIER

No barn is considered complete unless equipped with litter carriers. Dirty and unsanitary stables are no longer tolerated. The saving of labor, the lessening of danger from fire, immunity of live stock from disease, and the saving of manure, are only a few reasons why litter carriers are growing more popular every day.

THE PORTER LITTER Carrier is the system for the farmer who wants permanency. The quality of material and workmanship entering into their make-up have no equal. As time and labor savers, they excel all other makes. Get our catalog, which tells and illustrates by pictures the many ways our feed and litter carriers can be used.

J. E. PORTER CO.,
OTTAWA, ILLINOIS.

"Knodig" Separator

At Lowest Price Ever Named

Save \$20 to \$40 on this famous high grade Cream Separator. Company has changed hands and to sell 100 separators in 30 days will quote an **amazingly low price** named only in direct letter to you. Here's the greatest opportunity you ever had to own a "Knodig" at **actual factory cost**. Big Free Trial goes with this offer.

You've heard of this great machine; it's known everywhere—fully guaranteed—best—most economical in the world. Write quick for special 30-day bargain price and our famous book, "Cream Profits," free.

National Pitless Scale Co., 2105 Wyandotte Street, Kansas City, Mo.



News of the Sale Ring

THE draft horse must be given a prominent place in the history of the sales held in the grain belt last week, and among these the Percherons were the top liners. The selling of ninety-three Percheron stallions and mares for one individual is an important event and this record was made last week at the sale of H. G. McMillan, of Rock Rapids, Iowa. And on this number the average on all animals sold was between \$500 and \$600. Then there was the sale of Loonan, Glenny & Redenius, held at Waterloo, Iowa, where forty-seven head averaged \$575. These averages were indeed reasonable, considering the present value of grade drafters. The distribution of these pure-bred draft mares through the various states of the corn belt is bound to affect the horse industry of this country favorably in the next few years. The 1,100 or 1,200 stallions imported each year are scarcely a drop in the bucket for our 7,000,000 mares, and this situation creates the most hopeful outlook for the man who has courage to start out with a few pure-bred mares because most of the draft stallions of the future used in this country must be produced here. But if the drafter had the center of the stage last week, the great mortgage lifter of the corn belt, the hog, was a close second, as there were some important Duroc, Poland China and Berkshire sales held during the week. Friends of Mr. J. W. Ogle, the progressive young Berkshire breeder of Ames, will be pleased to learn of the good record he made on his Berkshires last week at his sale. The highest average made last week was in the Durocs, this being \$87.05, made by Messrs. Russell & Moats, at Blair, Neb.

The sale of Mr. C. R. Steele, of Ireton, Iowa, is of more than passing interest, as it meant the dispersion of his splendid herd of Short-horns, while Mr. Steele also sold some Percherons of splendid type. Mr. Steele sold seventy-five head of cattle at an average of a little better than \$100, which shows, on the whole, that there were some splendid bargains. Few men in the entire central West have had more influence in improving the cattle of this area than Mr. Steele. The Holstein-Friesian sale of Mr. H. C. Glissman is worthy of special comment because at his sale last week 125 went through the ring at an average of \$180. This is a figure that shows plainly which way the wind is blowing because it means that the pure-bred dairy cow is increasing in popularity. We commend to our readers the review given below of all sales made during the week:

Brown's Duroc Sale.

Mr. E. J. Brown, of Osceola, Neb., made a Duroc sale on February 11th, surrounded by the most discouraging conditions. A very cold, windy day and a farm sale within two miles kept the farmer crowd away, and when the sale opened but about thirty-five people were present, yet forty head were disposed of at an average of \$38.05, mostly gilts. Seventy-five dollars was the top price, Mr. E. R. Danielson, of Osceola, Neb., paying that price for No. 12, and Mr. Wm. Moderow, of Beemer, Neb., for Lot 6. Mr. Ed Johnson bought several good bargains. Colonel Callahan did the selling. The buyers' names follow: N. J. Nelson, Newman Grove, Neb.; G. E. Samuelson, Osceola, Neb.; Jake Wernsman, Cedar Bluffs, Neb.; W. Randall, Osceola, Neb.; Arthur Als-house, Ulysses, Neb.; T. J. Skidmore, Osceola, Neb.; Elias Timm, Osceola, Neb.; A. W. Johnson, Osceola, Neb.; Clarence Wallace, Wisner, Neb.; Geo. Briggs, Clay Center, Neb.; Wm. Logsdon, Cook, Neb.; Ed Johnson; Warren Jones, Osceola, Neb.

C. R. Steele's Dispersion of Short-horns and Percherons.

On February 9th and 10th, Mr. C. R. Steele, of Ireton, Iowa, dispersed his entire herd of Short-horn cattle and Percheron horses, on his farm four and one-half miles northeast of Ireton, Iowa. The Short-horn offering consisted of seventy-five head, fifteen bulls and sixty cows and heifers. The fifteen bulls made an average of \$127.50; the sixty cows and heifers sold for \$5,800, or \$96.66 per head. The total seventy-five head brought \$7,712.50, or an average of \$102.83, which was not so bad, all things considered, as there were several aged cows and several young heifers and a number of quite young bulls in the offering. The horses sold first class. No. 1 in the catalog was

Mary, a five-year-old mare, bringing \$780 and going to Mr. E. C. Farringer, of Ireton, Iowa. No. 2 in the catalog was a young stallion, coming one year old, selling for \$285, and going to Mr. R. Steele, of Hanover, Ill. No. 3 in the catalog was an eight-year-old mare this coming spring, a daughter of Seducteur. She sold for \$835 to Mr. A. Heller, Alexander, S. D.; he also took No. 4, which was a two-year-old filly, at \$510. No. 5 was a yearling stallion, selling for \$465 to Mr. N. Christianson, of Hurley, S. D. Mr. A. Heller, of Alexander, secured No. 6 in the catalog, an eight-year-old mare, at \$730. No. 7, a two-year-old filly, sold for \$560 to Mr. George Bartlett, of Ireton. No. 9, a seven-year-old mare, went to Mr. F. E. Jackson, of Hurley, S. D., for \$775. Mr. E. C. Farrington secured No. 10, a yearling filly, at \$400. Mr. Steele expressed himself well satisfied with his horse sale, but thought his cattle sold a little too low. Colonels Bellows and Jones were the auctioneers at this sale and did their usual good work. Below is a list of cattle buyers: H. D. Russell, Sibley, Iowa; W. J. McLean, Rock Valley, Iowa; C. Pluenger, Struble, Iowa; J. Thomas, Sioux Center, Iowa; C. M. Gage, Lester, Iowa; F. Taylor, Ellis, S. D.; Thompson Bros., Hurley, S. D.; H. M. Russell, Sibley, Iowa; Walpole Bros., Rock Valley, Iowa; W. F. Sprangal, Beresford, S. D.; John Roghar, Orange City, Iowa; J. Molstead, Moline, Iowa; C. Sloan, Parker, S. D.; A. W. Haggarty, Hammon, Minn.; S. W. Sprangal, Beresford, S. D.

Russell & Moats Average \$87.05 on Durocs.

An unusually large crowd of breeders and farmers attended the dispersion sale of Messrs. Russell & Moats, at Blair, Neb., on February 14th. Forty head, including the two herd boars, Proud Chief and Dusty Critic, averaged \$87.05. The offering was strictly first class in every way and the high average maintained is an indication of what the breeders thought of their offering. The chief attraction was the great breeding boar, Proud Chief, which is now looked upon as one of the greatest breeding boars today in the West. He started with a \$200 bid and rapidly rose to the \$600 point, when several dropped out and it narrowed down to three or four bidders, finally going to Messrs. M. S. Moats & Son, of Missouri Valley, Iowa, at \$730. Proud Chief is one of the greatest breeding boars today living and he will certainly be a valuable acquisition to the Moats herd. It was a clean sale from beginning to end, without any semblance of deals or by-bids, and everything was bought by bidders who came after the hogs. Col. Fred Reppert made his initial appearance at this point and was well received, and much credit of the sale was due to his efforts on the block. Below is a list of buyers: M. S. Moats & Son, Missouri Valley, Iowa; Earl Moats, Macedonia, Iowa; J. M. Wild, DeSoto, Iowa; C. M. Allen, Blair, Neb.; R. A. Hairsline, Missouri Valley; Caine Bros., Kiron, Neb.; Lauren Allen, Missouri Valley; Chas. Warner, Pender, Neb.; W. C. Cameron, Herman, Neb.; N. W. Bardwell, Tekamah, Neb.; Tom Gaines, Kennard, Neb.; T. E. Bly, Brewster, Minn.; C. W. Huff, Mondamin, Iowa; Hans Sals, Elk City, Neb.; Geo. J. Haller, Blair, Neb.; E. W. Burdick, Herman, Neb.; White Bros., Perry, Iowa; Bert Barnes, Petersburg, Iowa; Ben Price, Blair, Neb.; W. J. Cook, Blair, Neb.; Edmonds, Shade & Co., Kingsley, Iowa; Nels M. Jensen, Blair, Neb.; Tom Gosard, Ponca, Neb.; E. H. Carpenter, Fontanelle, Neb.; A. W. Barre, Rosalea, Neb.; Hans Meeves, Bennington, Neb.; Otto Frohm, Ft. Calhoun, Neb.; W. L. Hull, Logan, Iowa; Raymond Benson, Sheldon, Iowa; W. C. Cameron, Herman, Neb.

Francisco's Polands Appreciated.

Mr. H. B. Francisco's sale of Polands, at Hastings, Neb., on the 10th of February, brought out a goodly crowd of breeders who were unanimous in their verdict that it was the strongest offering of the season thus far. Thirty-seven head sold for an average of \$60 per head—mostly gilts. One litter of seven gilts brought \$638, but Mr. Francisco retained the top gilt and sold one boar of the same litter. Mr. Thos. A. Shattuck, of Hastings, Neb., topped the litter at \$107.50 for No. 2. The top of the sale, however, was No. 26, going to Mr. R. B. Baird, of Central City, Neb., at \$120, thus making the fourth sale he has topped this winter. Mr. Henry Dorr, of Remsen, Iowa, was the runner up. Mr. D. W. Winne, of Prosser, Neb., a new man, was a bidder on all the choice things. After the cataloged numbers were sold a September 16th gilt by Great Hadley, pronounced a show prospect, was driven in at the earnest solicitation of several breeders, and sold to Mr. Jno. E. Sipple, of Casey, Iowa, at \$81. Mr. Henry Dorr purchased privately a choice fall male pig by the same sire, as also did Mr. Henry Baltz, of Fremont, Neb., which all goes to show that the class Mr. Francisco is breeding are pleasing to our most critical breeders. Colonel Doty did the selling. The list of buyers is appended: D. W. Winne, Prosser, Neb.; A. M. Johnston, Doniphan, Neb.; W. C. Singer, Hiawatha, Kan.; M. N. Spencer, Maywood, Neb.; W. J. Kellough, Friend, Neb.; Herman Baltz, Fremont, Neb.; Ed Talbert, Hastings, Neb.; J. H. Hamilton

& Son, Guide Rock, Neb.; Jas. Mullen, Hastings, Neb.; Riley Baugh, Hastings, Neb.; J. C. Meece, Ord, Neb.; J. J. Etmond, Roca, Neb.; Fred Walker, Pauline, Neb.; Will Hollaren, Hastings, Neb.; J. Zable, Hastings, Neb.; A. Lininger, Hastings, Neb.; J. C. Wiley, Hastings, Neb.; W. A. Lingford, Dannebrog, Neb.; W. E. Lyons, Hastings, Neb.; J. T. Nash, Minden, Neb.; M. E. Vandenberg, Sargent, Neb.; T. J. Hinds, Holstein, Neb.

H. G. McMillan & Sons' Sale.

Mr. H. G. McMillan held the banner Percheron horse sale of many seasons in the sale pavilion at Sioux City, Iowa, on February 8th and 9th, selling ninety-three head of stallions and mares and making a total average of \$511. The offering consisted of yearling stallions to four years old, thirty-nine head, and fifty-four mares from one to six years of age. The thirty-nine stallions made an average of \$546 per head, and the fifty-four mares an average of \$486. This average surpassed any other average that Mr. McMillan has ever made with such a great number of horses, considering their age, but they were of the Lakewood kind, first class in every respect, and when the Lakewood people put up an offering of Percheron horses you may know that when you come to their sale you will find something good. They had buyers from nearly every state west of the Mississippi, also Illinois, and after their sale was over, on the following day, there were some twenty buyers followed Messrs. H. G. McMillan & Sons to the great Lakewood Farm, looking for more horses. The Lakewood Farm at Rock Rapids is undoubtedly the greatest breeding establishment in America, and their reputation for good horses and their good, clean, business-like principles of selling them have gained them a reputation that is almost world-wide. They expressed themselves very well satisfied with the outcome of their last sale and wished to thank one and all for their attendance and liberal bidding. Below is a list of all buyers: W. H. Hawley, Camden Point, Mo.; J. H. Eberly, Lawton, Iowa; Joe Culbertson, McCool Jct., Neb.; Lee & Prentiss, Vermilion, S. D.; W. A. Sargent & Son, Ft. Morgan, Colo.; F. Barth, Evely, Iowa; J. R. Albert, Glen Elder, Kan.; Aug. Sherrer, McLean, Neb.; Jno. Williams, Lusk, Wyo.; Jno. DeNeui, George, Iowa; W. E. Bateman, Forestburg, S. D.; Jno. E. Marston, Miller, S. D.; L. E. Ausman, Wessington Springs, S. D.; Henry Etmeyer, Belden, Neb.; Jno. Vader, Winona, N. D.; J. C. Larson, Rembrandt, Iowa; Dave Smith, Shelbyville, Ind.; A. W. Haase, Fenton, Iowa; J. S. Johnson, Ellendale, N. D.; H. A. Williams, Otis, Colo.; T. W. Carper, Emerson, Neb.; A. W. Jones, Wynot, Neb.; Edgar R. Vernon, Preshe, S. D.; Alex. Miller, Cresbard, S. D.; J. A. Gifford, Beloit, Kan.; E. E. Petre, Knobnoster, Mo.; A. E. Pattison, Sergeant Bluff, Iowa; E. I. Gunderson, Centerville, S. D.; L. H. Newgarden, Tarkio, Mo.; J. W. Hanna, Tarkio, Mo.; Jno. Hefner, Sioux City, Iowa; J. M. Perreault, Elk Point, S. D.; Downen & Williams, Fairburn, S. D.; Chas. Sharp, Goodwin, S. D.; Aug. Wendt, Turton, S. D.; Jno. Lofgren, West Point, Neb.; Clarence Austin, Winnebago, Minn.; E. Fletcher, Burr Oak, Kan.; I. Ridgley, Ellendale, N. D.; W. S. Corra, White Hall, Ill.; F. A. Cole, Barnard, Kan.; Peter Iverson, Sergeant Bluff, Iowa; J. C. Larson, Rembrandt, Iowa; W. E. Bateman, Forestburg, S. D.; W. H. Sarsfield, Marne, Iowa; Jno. Yueston, Ponca, Neb.; J. S. Athens, Hamburg, Iowa; E. F. Furber, Wynot, Neb.; A. A. Biwer, Tioja, N. D.; E. Fletcher, Burr Oak, Kan.; F. E. Hesner, Hot Springs, S. D.; E. L. Lilly, Macbeth, N. D.

Ogle's Successful Berkshire Sale.

On Friday, February 11th, Mr. J. W. Ogle, of Ames, Iowa, held his first public sale of Berkshire sows, and the handsome average of practically \$65 was a conservative price for the stock offered, breeding and individual merit considered. Those present sale day were treated to a real Berkshire show, in that the offering sold by Mr. Ogle was one of the most uniform and in the best possible condition for the breeder that has been sent through a sale ring this season. Mr. Bert E. McMillan, of Blanchard, Iowa, was a liberal bidder and buyer of the best sorts, securing the splendid daughter of Lord Premier, Premier Queen 2d, at \$102.50. The Farmer Farm, of Farmington, Minn., secured a bargain in Premier Queen's Lady, a daughter of Masterpiece, at \$102.50, and were liberal buyers of the better sorts. Col. Fred Reppert sold the entire offering and was assisted in the ring by Colonels McMillan and Posegate. The buyers: C. O. Freil, Murray, Iowa; Bert Jewett, Ames, Iowa; S. Jennings, Boone, Iowa; J. A. Gregg, Lake City, Iowa; John C. Miller, Harlan, Iowa; Geo. Stopp, Boone, Iowa; E. B. Thomas, Audubon, Iowa; C. F. Curtiss, Ames, Iowa; Frank Hamil, Boone, Iowa; J. H. Woolhiser, Boone, Iowa; W. F. Baker, State Center, Iowa; G. W. Sentell, Bunkie, Iowa; Frank Williamson, Henderson, Iowa; S. Powell, Jefferson, Iowa; J. W. McCarthy, Ames, Iowa; H. C. Davis, Ames, Iowa; Thos. MacDonald, Montezuma, Iowa; G. M. Wiley, Boone, Iowa; W. H. Golly, Zeiring, Iowa.

Holstein-Friesians at Omaha.

Mr. Henry C. Glissman, of Omaha, Neb., held a two days' sale of Holstein-Friesian cattle on the 8th and 9th of February. The 125 head which were cataloged were disposed of at an average of about \$180 per head. An additional number which had not been listed were also sold at prices of a very satisfactory character. There was a

very lively demand and the sale was a snappy one throughout. The top price of the sale was \$300. The excellent average obtained for these cattle is an endorsement of their high quality. Mr. Glissman is to be congratulated on the judgment he has exercised in building up a herd of this character.

The Loonan, Glenn & Redenius Percheron Sale.

The Percherons sent through the ring at Waterloo, Iowa, on Thursday of last week, by Messrs. Loonan, Glenn & Redenius, were more than a surprise to every visitor in attendance. It is doubtful if a better bunch of Percheron mares than this have ever been offered in one sale in the corn belt. They had weight, breeding and quality. A successful advertising campaign resulted in bringing to the ringside about 700 visitors and among that number were some spirited bidders. The appearance in the ring of the great Percheron stallion, Superior 40605, stirred the enthusiasm of every man who likes to inspect a good horse. Many of the mares in the offering were in foal to Superior and this no doubt helped the average because he is without doubt one of the best draft horses in this country. The man who bred him, Mr. W. E. Prichard, of Ottawa, Ill., was present and made a few remarks appropriate to the occasion. Col. Carey Jones did the selling and he never did more consistent work in a sale ring. Mr. Alvin Warren, of Leland, Ill., was one of the heaviest buyers. He was a consistent bidder and landed three of the good ones. Mr. E. C. Ferrin, of Pierson, Iowa, took the highest-priced pair of mares in the sale at \$1,750. Mr. Henry Goodhite, of Manchester, Iowa, got the pair of mares, Sylvia and Myra, at \$1,410. The magnificent seven-year-old mare, Eula, went to Minnesota, Mr. E. H. Emerson, of West Concord, being the buyer. The \$1,000 mark was reached but once, this being on a two-year-old son of the great Carnot, purchased by Mr. George Lubberts, of Parkersburg, Iowa. This stallion was not cataloged, but was put in as a substitute. He was a bargain at the money. The average on forty-seven head was \$574.04. The brood mares, old enough to be bred, in this sale averaged \$604.57. The stallions, which includes yearlings and two-year-olds, averaged \$573.75. The fillies averaged \$470. The three gentlemen who held this sale were Messrs. James Loonan, Waterloo, Iowa; T. F. Glenn, Hudson, Iowa, and H. Redenius, Dike, Iowa. These men received many compliments on the day of their joint sale and in every case these were well deserved. They are all breeders of Percheron horses of the highest class and they are in the business to stay. They have kept the very best of foundation stock and they will be heard from in the future. The buying public was given a square deal at their sale held last week and the members of this firm desire, jointly and separately, to thank their horsemen friends for their patronage on this occasion and to wish every buyer the best of good fortune and good luck with his purchase. A list of the buyers at this sale follows: T. J. Shaw, Mitchellville, Iowa; O. P. Jones, Lamont, Iowa; Mr. Shaffer, Greene, Iowa; H. J. Hess, Waterloo, Iowa; L. H. Broer, Eldora, Iowa; H. C. Clough, Garwin, Iowa; Henry Goodhite, Manchester, Iowa; Geo. Corkin, Louis Goeke, Waukon, Iowa; A. Surtzer, Waterloo, Iowa; W. L. Hunt, N. Thornburg, Waterloo, Iowa; J. E. Kane, Iowa Falls, Iowa; John Harbough, Waterloo, Iowa; G. Bloom, Cedar Falls, Iowa; Mr. Cawelti, Alta Vista, Iowa; J. Hansen, Hudson, Iowa; C. E. Taylor, Independence, Iowa; A. I. Burk, Marcus, Iowa; D. C. Isenlinger, Hudson, Iowa; A. A. Tanruther, Waterloo, Iowa; Henry Muhle, Rockford, Iowa; H. C. Senn, Randolph, Minn.; D. C. Dean, Eldora, Iowa; W. E. Pritchard, Ottawa, Ill.; Fred H. Miller, Finchford, Iowa; George Lubberts, Parkersburg, Iowa; Geo. Harms, Dixon, Ill.; P. Hodson, Minneapolis, Minn.; W. H. McLellan, Clarence, Iowa; Alvin Warren, Leland, Ill.; Hoyman Bros., Stanwood, Iowa; C. L. McLaughlin, Panora, Iowa.

Johnson & McCullough's Cattle Sale.

This sale was held on Mr. McCullough's farm, three miles north of Lester, on February 8th. Forty-seven head were disposed of and made an average of \$83 per head. This was considered by all good judges a very good sale, considering that there were thirty head of the offering one and two-year-old cattle. Messrs. McCullough & Johnson expressed themselves as very well pleased with the outcome. The cattle were presented to the buyers in good, thrifty condition, but not overloaded with fat, and after a bountiful dinner was served, Col. George Bellows started the sale with his usual fine opening address, and after its conclusion the bidding commenced, which was sharp and snappy all the way through. The entire offering was disposed of in a very short time. Following is a list of buyers: C. A. De Vault, Inwood, Iowa; C. M. Gage, Lester, Iowa; E. B. Johnson, Hills, Minn.; J. H. Hoeck, Larchwood, Iowa; H. Damman, Garretson, S. D.; C. Messner, Hancock, Minn.; T. J. Arndt, Steen, Minn.; H. Hulgerson, Hills, Minn.

The O. E. Osborn Sale.

It was a small crowd of breeders that came out to the O. E. Osborn sale on February 11th, and as a consequence the offering did not bring what it was entitled to. The catalog stuff averaged \$35.43, and he then sold a number that were not in the catalog. Below is a list of buyers: W. A. Rankin, Carson, Iowa; Henry Larson, Weston, Iowa;

Kansas Takes 1,000 Overland Cars

Our agents in Kansas have ordered for this season 1,000 Overland automobiles.

Nebraska takes 750—Iowa 1,000—Texas 1,500. Thus has the Overland—after one year's experience—captured the farming states.

It has captured the cities, too. New York City takes 1,000 Overlands this year. Boston takes 500—San Francisco 500—Washington 500—Philadelphia 450.

Our agents have contracted for 20,000 Overlands—for \$24,000,000 worth of Overlands—to supply the demand for this year. That's a larger sale than any other car commands.

Yet, two years ago few had ever heard of an Overland. This sensational success is due to the creation of a remarkable car.

The Simple Car

The success of the Overland is mainly due to its amazing simplicity. A 10-year-old child can master the car in five minutes. Push a pedal forward to go ahead, and backward to reverse. Push another pedal for high speed. There is nothing else to do but steer.

Any man, with the simplest instructions, can run an Overland a thousand miles and back.

There was never a car so easy to care for—so easy to keep in order.

20 Per Cent Reduction

The Overland's success is also due to its price. No other maker ever gave nearly so much for the money.

Yet we have cut our costs this year about 20 per cent through enormous increase in production.

The Overland we sell for \$1,000 this year is better than the \$1,250 Overland last year. It is a 25 H. P. car with a speed of 50 miles an hour.

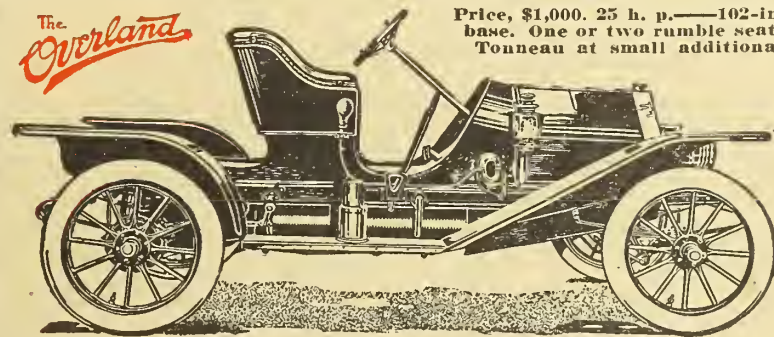
So with the \$1,250, \$1,400 and \$1,500 Overlands. Each offers a fifth more than ever before for the money.

All prices include Magneto and full lamp equipment.

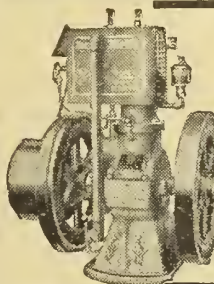
Ask for the Story

The Overland story is one of the greatest business stories ever told. It tells how this car—the creation of a mechanical genius—has in two years reached the topmost place in this field. And it tells all about the car. Send us this coupon today for this book.

F. A. BARKER, Sales Manager, A20 The Willys-Overland Co., Toledo, O. Please mail me the book.



Price, \$1,000. 25 h. p.—102-inch wheel base. One or two rumble seats or Toy Tonneau at small additional price.



Are You a Plumber?

And a steam fitter and a machinist? If so, you can keep an ordinary gasoline engine running part of the time, unless you forget to drain it and have a freeze-up! That puts it out of commission.

The "New-Way" AIR-COOLED

Is not an ordinary engine, and an ordinary man can get a full day's work out of it every day in the year. No water, no tanks, no pipes, no packing, nothing to freeze up or leak. The only air-cooled engine guaranteed for all work. Write for catalog S.

15 Ash Street THE "New-Way" Motor Company LANSING, MICHIGAN, U.S.A.



The Difference Between Fetzter Drills And All Other Grain Drills



You might just as well run your wheat and other seed through a coffee grinder as through some of the (so-called) force feeds of many Grain Drills to-day.



Our Booklet (free) shows the famous Fetzter Feed—one seed at a time—no crowding, crushing, breaking or injuring of any kind of grain. If you didn't see our exhibit at the State Fair, we want you to get our book about the Fetzter Grain and Fertilizer Drills—1st prize winners in England and Germany as well as in America for the past five years. We will also give you a

\$1.00 Certificate Free

if you send the coupon at once. This \$1.00 coupon is money in your pocket—a reduction on the regular price. You'll never make an easier dollar than by sending the coupon now. You'll be surprised how far the Fetzter Drills are ahead of all others. Simply mail us the coupon, properly filled out, or mail us a postal for free Book.

THE WILLIAM FETZER CO.

Springfield, Ill.



SNOW TO THE HUBS

Send name for Galloway's big, new Book—never anything like it—"Net Results." Shows actual photos of Galloway Machines Spreading Manure up to hubs in snow and ice. See big ad., page 21. Write today to 109 Galloway Station, Waterloo, Ia.

RICE DRILLS FERTILIZER DRILLS CORN DRILLS SEEDERS DISC HARROWS TRANSPLANTERS For Tobacco, Cabbage, Tomatoes and other vegetable plants PATENT GATES Self Opening

Christ Christopherson, Weston, Iowa; W. P. Barnett, Weston, Iowa; W. F. Creigior, Underwood, Iowa; Frank Desmond, Atlantic, Iowa; A. A. Larson, Weston, Iowa; F. H. Copeland, Portsmouth, Iowa; R. M. Barnett, Weston, Iowa; S. Stuart Jones, Yale, S. D.; E. M. Stock, Weston, Iowa; Lute Groves, Weston, Iowa; E. M. Stock, Council Bluffs, Iowa; J. H. Dau, Minden, Iowa; Arthur Preston, Weston, Iowa; H. W. Metler, Crescent, Iowa; G. Graebel, Council Bluffs, Iowa; Ernest Huff, Weston, Ia.; W. F. Krueger, Weston, Ia.

DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.

Mar. 10, M. H. Donohoe, Holbrook, Iowa.
Mar. 11, Wm. Cash, Williamsburg, Iowa.
Mar. 16, Breeders' sale, M. A. Martin, Mgr., Wall Lake, Iowa.
Mar. 17, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
May 31, H. J. Hess, Waterloo, Iowa.
June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
June 7, James Williams, Marcus, Iowa.

Short-horn Cattle.

Mar. 15, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
Mar. 16, O. O. Smith, Des Moines, Iowa.
Apr. 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
Apr. 28, Henry H. Kuper, Humboldt, Neb.

Hereford Cattle.

Mar. 8-9, Funkhouser, Gabbert and others, R. T. Thornton, Kansas City, Mo., Mgr.
Mar. 15, Brookmont Farm, Odebolt, Ia.
Mar. 16, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
Mar. 29, E. O. Nervig, Slater, Iowa.
Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
Apr. 16, James E. Logan, Kansas City, Mo.

Duroc Jersey Swine.

Mar. 9, Lien Bros., Platte, S. D.

Jacks and Jennets.

Mar. 15, G. C. Roan, La Plata, Mo.

Percherons.

Mar. 11, P. W. Moir, Mitchell, S. D.
Mar. 22-23, Combination sale, Sioux City, Iowa, J. B. McMillan, Mgr.

FIELD NOTES.

Mr. John Healy, of Gilmore City, Iowa, has a registered Aberdeen Angus bull for sale as per advertisement on page 50 of this paper.

Poland China sows at private treaty are offered for sale by Mr. Herman Baltz, of Fremont, Neb., on page 50. Pedigrees furnished with sows when shipped.

Mr. C. A. Gaer, of Wisner, Neb., has a small herd of Holstein-Friesian cattle for sale. A small portion are registered and a part high grade. His advertisement appears on page 49 of this issue.

The advertisement of Mr. J. S. Brandt, of Clermont, Iowa, who wishes to purchase a car load of high-grade Holstein or Guernsey cows and heifers, will be found on page 49 of this issue.

Mr. O. E. Osborn, of Weston, Iowa, is offering fifteen head of well-bred Duroc Jersey bred sows at private sale, bred to his noted herd boars. Read his advertisement on page 51 and write him at once.

Rupert 285651, a good Scotch bull, is offered for sale by Mr. Barney Drew, of Greenfield, Iowa. He is a son of Prince Missie and out of a Miss Ramsden cow. Mr. Drew is through with the bull and he can be bought right.

Mr. E. O. Nervig, of Slater, Iowa, will hold a public sale of Hereford cattle on the 29th of March. This is a splendid consignment of young animals that will be of interest to every farmer who wants to buy and grow out his own cattle.

Mr. F. Bunker, of Kilbourn, Wis., breeds Double Standard Polled Durham cattle and is offering for sale a number of excellent individuals, both male and female. Many of these are the get of Ruby's Tip, a beef-type bull that was a champion winner at the Wisconsin State Fair, and a sire of animals that have never been defeated in the show ring. See page 19.

Mr. G. M. Scott, of Rea, Mo., is offering for sale a car load of big, black jacks, as well as three good Percheron stallions. These animals are advertised on page 53 of this issue. They are described as of high excellence and valuable animals that will be sold at reasonable prices. They are fully described in the catalog, for which address Mr. G. M. Scott, Rea, Mo.

Mr. W. J. Hartung, of Maxwell, Iowa, is offering for sale a limited quantity of Swedish Regenerated select seed oats. This variety produced on Mr. Hartung's farm last year sixty bushels per acre. He is quoting most reasonable prices. Mr. Hartung is responsible, and any statements he makes with reference to these oats may be depended upon.

Among the younger breeders of Poland China hogs, who start out in a promising manner, we number Messrs. V. Reuh & Son, of Stuart, Iowa. These gentlemen have in their herd of brood sows daughters of Keepsake, T. R.'s Perfection and Grand Chief Jr. These strains of blood are of the sort which cannot fail to attract attention when the individual merit is right. On this point the senior member of the firm assures us there can be no doubt. They are good, big, growthy, well-grown animals of a most promising

character. Their herd boars are Grand Chief Jr. and On the Spot Jr., the latter a son of the much-talked of On the Spot.

Mr. F. Bowman, of Eldora, Iowa, in furnishing copy for his advertisement on page 53 of this issue writes: "The Morgan stud colt I am offering for sale was foaled September, 1907. He is a nice bay in color, has plenty of size for his age, a fine individual, and nicely bred, being a grandson of Meteor 3840, that won first premium and gold medal at World's Columbia Exposition. His dam was a nicely-bred registered Morgan mare and this colt will make a fine horse with plenty of size and be of the Morgan type."

A few days ago a representative of The Homestead visited the Short-horn herd of Mr. O. O. Smith, of Des Moines, Iowa. Mr. Smith will hold his fourth annual sale of Short-horn cattle on Wednesday, March 16th, and later announcements of the sale will appear in The Homestead. The most striking feature of the herd as noticed by our representative is the splendid bunch of lusty, heavy-coated calves. There are a great number of them and they are not only strong and thrifty, but they are of the most excellent conformation. Quite a number of them, together with their dams go into the proposed sale.

Messrs. Lien Bros., of Platte, S. D., will hold a public sale of Duroc Jersey brood sows on Wednesday, March 9th. Forty head have been selected for this consignment. They are the get of King Jester, Dakota Chief and Choice Bredwell. They are bred to King 22305, a son of King Paul. The selection for this sale comes from a very large number on the farm and is, therefore, beyond the average in quality. They are not only very large and growthy, but have length, stretch, good heads and ears and are strong in feet and legs. They include not only mature sows, but fall sows and spring gilts. Catalogs are now ready and may be had by writing to Messrs. Lien Bros., Platte, S. D. See page 51 for advertisement.

Mr. Geo. H. White, of Emerson, Iowa, whose advertisement of Short-horn cattle appears on page 50, writes us that he now has on hand about fifteen bulls old enough for service. These belong to the Missie, Ury, Lovely and other prominent Scotch families. Several others have also some good Scotch top crosses. They are reds, roans and whites. Those of our readers who have seen Mr. White's exhibits at the state fairs need not be told that they are of the highest quality. Mr. White has expended large amounts of money in buying the best breeding animals and his customers will receive the benefit of his broad-minded course in building up the herd. For prices and descriptions write to Mr. Geo. H. White, Emerson, Iowa.

Mr. S. S. Krebill, of Donnellson, Iowa, breeds Duroc Jersey hogs and announces in an advertisement on page 47 that he has for sale some good gilts bred to farrow in March and April. Mr. Krebill writes with reference to these gilts as follows: "I have ten gilts that have been bred right and fed right, they have been kept on grass all their lives." Mr. Krebill's Duroc Jerseys are bred along popular lines. The prices he quotes are quite reasonable for the character of the stock. He is located on the Keokuk and Mt. Pleasant branch of the C., B. & Q. R. R. at its junction with the Keokuk and Western, thirty-eight miles west of Burlington, and therefore has unequaled shipping facilities. For descriptions write at once to Mr. S. S. Krebill, Donnellson, Iowa.

Mr. T. A. Stevenson, of Shannon City, Iowa, writes under recent date saying: "The Homestead has brought many good sales to my herd. During the past few months it has sold every one of my Chester Whites. In fact, I have had to return orders. It has also sold about twenty-five Collie pups. I have yet two black and white female Collies from registered parents that I will close out at bargain prices if ordered soon. I have also a very fine Chester White male coming two years old that I cannot use any longer. He is strictly first class in every way. He is by Balance All 18047, and his dam is Queen Rose 35908. His blood lines, it will be seen, are as good as the best of them. I will exchange him for a strictly first-class March or April gilt, bred to a first-class sire to farrow in March or the first of April. This hog is reasonably worth \$100." Any further particulars may be learned by writing Mr. T. A. Stevenson, Shannon City, Iowa.

Among the younger breeders of Duroc Jersey hogs who promise to step into the front rank at no distant date, Mr. Homer E. Bailey, of River Falls, Wis., occupies a prominent place. While Mr. Bailey has not yet an extensive herd he has recently been buying judiciously a few of the better sort of animals. At the Purdy sale, at Mason City, Iowa, on February 3d, Mr. Bailey bought the splendid brood sow, Fancy Advance, one of the very best things in the sale. Not only is this sow an individual closely approaching the ideal type, but she has proven a rarely good producer and in addition to this has blood lines of the right sort. Her sire, Advance Boy, was a full brother to Proud Advance, Advancer and several others that have won such honors as the sweepstakes ribbon at the Iowa State Fair and other great shows. Her dam was a granddaughter of Improver II., a Nebraska State Fair winner. She was bred to Chief Select, one of the most intensely-bred Col. boars in the West, a prize winner and a descendant of prize winners. Mr. Bailey's other purchases included two good sows at the Balmat sale, at Mason City, Iowa, February 2d. Both of these were daugh-

ters of Iowa Chief and bred to O. T.'s Model, a hog that is a prize winner and a descendant of prize winners.

Six Bulls Sold Since January 1st.

Mr. David W. Williams, superintendent of the Brook Hill Farm, at Genesee Depot, Wis., reports that everything is going on nicely and that he has already sold six Guernsey bulls this season. See page 49.

Bred Sows for Sale.

On page 47 of this week's issue will be found the advertisement of Messrs. White Bros., of Perry, Iowa, who are offering thirty head of choice Duroc Jersey bred sows for sale. These will farrow in the latter part of March and April and they are pricing them reasonable in order to close them out. To anybody taking a number they will make a special price.

Duroc Bred Sows for Sale.

Some excellent Duroc Jersey sows are advertised for sale by Mr. O. E. Osborn, of Weston, Iowa, on page 51. These sows are bred in the purple and there are two daughters of Ohio Chief among the number. They are bred for March and April farrow and as he wants to sell as soon as possible he is therefore making reasonable prices on everything. Kindly mention The Homestead.

Short-horn Bulls for Sale.

On page 47 of this week's issue Messrs. H. Pritchard & Son, of Walnut, Iowa, offer six head of good young Short-horn bulls for sale. Five of these are roans and one red, and four of these are sired by the \$850 Cookson-bred bull, Favorite. The remainder of these are sired by Victor's Roan Duke. They want to sell these bulls and they are making the prices reasonable enough that any farmer can afford to buy. When writing them kindly mention The Homestead.

The Dunham Percherons.

Recent advice from the importing firm of Messrs. W. S., J. B. & E. Dunham, of Wayne, Ill., states that on the 9th of February an importation of forty-six splendid Percheron stallions and mares were received. The statement is made that these really form an extraordinary lot of animals. As will be noted in the advertisement page 53, Messrs. Dunham are offering for sale a selection of Percheron mares, nearly all of which have been bred. They will prove a money-making proposition for the ordinary farmer. Prices or other descriptions may be had by writing for catalog, for which address as given above.

Percheron Stallion for Sale.

Mr. L. A. Matern announces on page 46 that he has for sale a strictly good black Percheron stallion coming three years old. As it is desired that this horse may be disposed of immediately a very reasonable price will be quoted on him. His sire was Ackbar, a horse that weighs 2,200 pounds, and his dam was one of the best mares in Iowa. He himself promises to develop into a ton horse at maturity. In addition Mr. Matern also has for sale a number of straight Scotch Short-horn bulls of high class. They will bear investigation and will be sold at most reasonable prices. Additional particulars may be had by writing Mr. L. A. Matern, Wesley, Iowa.

Pfanders' Long King.

On Saturday of this week, February 26th, don't forget the date, Messrs. J. W. Pfander & Son will sell forty-odd head of Poland China brood sows at Clarinda, Iowa. A very large proportion of these sows carry the blood of Long King, a hog which Messrs. Pfander consider the longest, tallest, widest, biggest-boned Poland China in existence. They quote the figures to support the statement. The entire offering will be strongly bred in the strains which have produced this great hog, as well as others that have gained prominence because of their great size. Do not forget there is no later opportunity to call attention to this sale and that there will be no other chance to buy hogs of the same character this season.

Mondamin Herds.

Messrs. Held Bros., of Hinton, Iowa, breeders of Poland China hogs, Short-horn cattle and Oldenburg coach horses, are still able to supply animals of these various breeds at reasonable prices. They have in particular a few good bred sows, daughters of Thickset 2d and Dark Corrector. A few extra good young Short-horn bulls still remain and bargain prices will be quoted on them. As to the Oldenburg coach horses they still have on hand animals of both sexes, imported and home bred, and these are right up to the ideal of high quality. They range from two to four years old. These horses must be seen to be appreciated at their best. For prices on any of this stock write to Held Bros., Hinton, Iowa. See advertisement on page 50.

Buena Vista Herefords in March Sale at Kansas City.

In the Hereford sale at Kansas City, Mo., on March 8th and 9th, Mr. W. A. Dallmeyer, of Jefferson City, Mo., offers three heifers. They are the get of Beau Donald 7th, a noted son of the great sire and show bull, Beau Donald. Two are bred to Lord Brummel, a worthy son of the famous Beau Brummel, and out of a full sister to the well-known show bull, Dandy Rex. This combination of blood lines should appeal to discriminating pedigree students. The other heifer is not quite old enough to be bred, but is now good enough to make a creditable show in hot company. All have been well grown, are in splendid condition, are a uniform lot and, being young,

have a life of usefulness before them. Look them up. They comprise a worthy contribution from Buena Vista Farm. If you have not a catalog write to Mr. R. T. Thornton, 1309 E. 15th St., Kansas City, Mo., or Mr. Dallmeyer, Jefferson City, Mo., either of whom will gladly supply you. See advertisement on page 48.

Some Good Duroc Sows Bred.

Messrs. Chapin & Nordstrum, of Green, Kan., have a change of advertisement on page 46 in which they offer ten Duroc sows bred and two very choice King of Cols. H. boars. The Chapin & Nordstrum herd is one of America's better herds. They have a herd of strictly high-class sows of the very richest breeding. The sows are bred to the yearling boar, G. C.'s Kan. Col., a phenomenal son of G. C.'s Col., and to Col. C. by Kan. Col. II. and out of Red Princess, the sow Mr. Grant Chapin regarded as his greatest brood sow. These are choice young sows that will make good. They are individually right and the fact that they are in pig to two extremely good Colonel boars adds greatly to their value. They are offered at prices that are right and they should go to men who want good Duroc sows that are bred right and are right. When writing them kindly mention this paper.

Souers' Imported Belgians.

On page 52 Mr. Herbert E. Bray, of Sioux City, Iowa, western manager for the Geo. W. Souers & Sons Importing Co., announces that he has, at sale barns in Sioux City, a splendid lot of imported Belgian stallions. They are all two and three-year-olds, well acclimated and a part of them are from the importation of last August. They belong to the low-down, heavy draft type, have the very best of feet and legs, extra good colors and style. In fact, they are just as good as can be obtained from any barns in the United States. Mr. Bray invites readers of The Homestead to visit the barns, which are located at the stock yards in Sioux City, and examine carefully all the animals offered for sale. Those who are unable to make the trip will be interested in the new catalog for 1910 which contains descriptions, terms and guarantees. This may be secured by writing to Mr. Herbert E. Bray, Sioux City Stock Yards, Sioux City, Iowa.

Imported Percherons.

On page 47 of this issue will be found the advertisement of Mr. John Moran, of Nevada, Iowa, breeder and importer of Percheron horses. At this time Mr. Moran is offering some splendid imported mares, safe in foal, that will suit the most discriminating buyers. There are a number of matched teams, blacks and grays, and they range in ages from yearlings to four-year-olds, and for bone, conformation and quality they are hard to beat. The prices are reasonable, and there is no better time than the present to invest in pure-bred Percherons. The twelve head that he is offering for sale are a uniform lot, having been selected personally by Mr. Moran in France, and they are priced worth the money. Three stallions are also offered for sale, and they are the type that are being sought after by the best breeders and farmers throughout the entire country. Look up this good lot of Percherons and visit the farm at Nevada and inspect this lot of Percherons. Mention The Homestead when writing.

Last Call Sunny Slope Hereford Dispersion.

The dispersion of the Sunny Slope Herefords on March 1st, 2d and 3d marks the passing of one of the greatest herds of Herefords in existence. Mr. C. A. Stannard, of Emporia, Kan., took up the work at Sunny Slope, where the late Mr. Cross left off, and has steadily carried forward the work of improvement. These are, including calves, some 190 head of be sold. Thirty head are bulls, 100 head are cows, sixty of these with calves at foot, and the balance are two-year-old and yearling heifers. The great herd bull, Beau Mystic, and his get, should be appreciated. Not in recent times has such a great herd bull been exposed at public treaty. The other herd bulls, Expectation, Beau Doncaster and Beau Golden, afford excellent opportunities to secure bulls of exceptional merit. All are strongly bred along Anxiety 4th lines and a bull to do service at Sunny Slope had necessarily to be a high-class bull. Each of these bulls is represented in the sale by both sons and daughters. Lord Saxon, Wild Tom, Java and Keep On, four noted sires, had much to do with laying the foundation of the herd, and the infusion of the blood of Anxiety through the great herd bulls used since has made the Sunny Slope herd one that the breeder who desires the modern type may patronize. The entire show herd should command the attention of those who need young things to carry on for this season's shows. There are among the brood cows several that have good show records and have in turn produced winners. Among the sixty or more calves that sell with their dams are many that will make great herd leaders and strong candidates for the best shows. The opportunity afforded should not be treated lightly, as there has not been another such a herd offered in recent times. Any breeder or any one desiring to found a herd may buy at the Sunny Slope dispersion and know that he has cattle that have the individual merit and are as well bred as it is possible to find them. The sale is to be held at Sunny Slope Farm, near Emporia. Every animal goes and Mr. Stannard also offers the

farm, which consists of 970 acres, all highly improved. See page 49 for the last announcement before the sale.

Ensign's Latest Importation.

Mr. S. A. Ensign, of Cleghorn, Iowa, importer of Percheron horses, whose advertisement appears on page 52, has still on hand and for sale a few more of those young Percheron mares that were imported last November. These mares range from two to four years old. They are blacks and grays. The importation came direct from the farming districts of France and was personally selected by Mr. C. A. Pingeon. This gentleman is not only a competent and expert horse judge, but a native of France, and speaks the language fluently. He, therefore, has double advantages in procuring good animals at reasonable prices. Mr. Pingeon is manager of the barns at Cleghorn, Iowa, and will take pleasure in exhibiting the stock to his customers. Those who are unable to make a personal inspection should write for descriptions and prices, addressing Mr. S. A. Ensign, Cleghorn, Iowa.

Messer's Aberdeen Angus Cattle.

Mr. A. G. Messer, breeder of Aberdeen Angus cattle, of Grundy Center, Iowa, places an advertisement on page 50 of this paper. He is offering for sale three choice young bulls and three bull calves dropped in August and September. In the letter accompanying his order for this advertisement Mr. Messer writes: "I have a Queen Mother bull by Pabno 38977 calved in December, 1907, and out of the dam of the sensational Queen Lass of Alta. I have two Alicias both sired by Pabno and out of Alicia of Quietdale. One of these was calved July 4, 1908, and the other in September, 1909. Both are cracking good ones with size and merit. I have an Easter Tulloch Duchess, an April, 1909, calf by Pabno and two Coquettes by Dandy Hayti 62625. One of these is out of Coquette of Quietdale 2d of Lowlander and the other is out of Coquette 6th by Ebony Quietdale. Every one of these calves is a good one. The Queen Mother is extra thick fleshed and desirable from every point of view."

Moir's Percheron Sale.

Mr. P. W. Moir, of Orange City, Iowa, announces a public sale of Percheron horses at Mitchell, S. D., on Friday, March 11th. Sixty head of Percherons have been cataloged for this sale. Twenty-five of these are stallions from one to four years old. The thirty-five mares are from two to six years old. Stallions are of the low-down, blocky, drafty type, many of them promising to become better than ton horses. They have good, flat, heavy bone and the best of feet. They are all thoroughly acclimated, and just right to go out and do good work. Among the mares are many beautiful matched teams of black and dapple gray. Most of them are broken to work. Twenty-five are safe in foal to Toreador, the interstate champion of 1908. The others will have been bred to some of the imported horses in service on the farm. Mr. Moir wishes to assure our readers that no better offering of young mares will go into any sale ring this year. They are of splendid draft type, with plenty of style and action, excellent feet and legs, good disposition, easy to handle and bred as well as any horses in America. They will be found in a sale pavilion at Mitchell a few days prior to the sale, where buyers may personally examine them. An advertisement of this sale will be found on page 47. Catalogs may be had by writing to Mr. P. W. Moir, Orange City, Iowa.

Champlin's Percherons and Belgians.

Messrs. Champlin Bros., of Clinton, Iowa, importers and breeders of Percheron and Belgian horses, as advertised on page 53, advise us that while they have been making remarkably good sales this season, they still have on hand a barn full of Percheron and Belgian stallions which have good bone, good backs, plenty of weight and everything that goes to make up a good draft horse. Among recent sales they mention that of a good four-year-old imported Percheron stallion to the Percheron and Belgian Horse Company, of Mt. Carroll, Ill. The same company took a fine imported Belgian stallion, a three-year-old chestnut that weighed over 1,900 pounds. Concerning other buyers Messrs. Champlin write: "Last year Mr. J. S. Snider, of Linby, Iowa, purchased a fine, dapple gray, imported Percheron stallion from us. Last week he again visited our stables and bought a fine black imported Percheron colt that had extra quality and plenty of weight. Three years ago we sold to a stock farm in South Dakota one imported Percheron stallion and twenty head of imported mares. A few days since we sold and shipped to the same concern five more imported Percheron mares, and we have an order to bring them a few more with our next importation. This is certainly a sign that our stock and prices are quite satisfactory. Among other sales was one imported stallion to the Madison Horse Company, of Madison, S. D.; an imported Belgian stallion to the Chester Horse Company, of Chester, S. D.; an imported Belgian stallion to the Fulton Horse Company, of Fulton, Ill.; a prize-winning Belgian stallion to the Elizabeth Horse Company, of Elizabeth, Ill.; and a home-bred stallion and three imported Belgian mares to Mr. H. M. Meyer, of Denison, Iowa; an imported Percheron stallion to the Sinai Horse Company, of Sinai, S. D.; and a big, bay three-year-old imported Belgian stallion to Mr. Franklin, of Shellsburg, Iowa." It will pay horse buyers to visit the barns at Clinton, Iowa, and examine the stock and get prices before making their selections. For any

other particulars or terms address Messrs. Champlin Bros., Clinton, Iowa.

High-class Scotch Bulls for Sale.

On page 50 of this week's Homestead will be found the advertisement of Mr. S. A. Bixler, of Corning, Iowa, who is advertising some strictly high-class young Scotch bulls for sale. These bulls range from twenty to thirty months in age, are in fine condition and are fit to go out and head any of our best herds. Royal Rex and Royal Rex 2d are two splendid red bulls and are sired by the great breeding bull, Diamond Rex, a son of Imp. Cock Robin. Either one of these bulls is a herd-heading proposition and can be bought worth the money. Mr. Bixler has a twenty-months-old bull by Diamond Rex and out of Imp. Dalmeny Mina 5th that is a good proposition. This bull is a roan in color and will suit the man who is wanting a roan bull. Another splendid red bull is sired by Royal Mina and out of Lady Stamford 2d. This is a Canadian-bred bull and some parties think he is as good a bull as he has in the bunch. We will just say this, however, to the man who is hunting for a herd bull that if he goes and sees these bulls that he will be sure to buy, as these bulls are strictly all right and will make good

MORE BUTTER MONEY

Whether you keep one cow or fifty, you are now losing at least ONE-FOURTH of your butter money. You can't possibly get more than three-fourths of the cream by hand skimming or water separators. You lose enough butter money every few months to more than pay our factory price for the size of cream separator you need. A New Butterfly Jr. No. 1 now costs you only \$14.85 and gets all the cream as soon as the milking is done, just the same as any \$100.00 machine. It purifies the milk for your table, does away with washing dirty pans and crocks, gives warm, fresh skim milk to feed the calves, pigs and chickens; skims 1 quart of milk per minute; runs so smoothly and easily a child can operate it; cleans more quickly and perfectly than any other cream separator. Read why in our free 1910 catalog just printed. Every New Butterfly Cream Separator made in our own factory, shipped direct to you on 30 days' free trial and guaranteed a lifetime. Write for catalog today. It is free. Address

ALBAUGH-DOVER CO., 2196 Marshall Blvd., CHICAGO

\$14⁸⁵

AND UPWARD

A New Butterfly Cream Separator will pay for itself in just a few months. After that it will make \$10.00 to \$15.00 a year extra profit on each cow you own. Five other sizes. Prices from \$14.85 up to \$36.30. Write now for 1910 Catalog.

Hesiod-Earl of Shadeland cow. He has proven a worthy sire and should go to some good herd. Remember this is one of the season's greatest opportunities to buy high-class bulls, and send to Mr. R. T. Thornton, 1309 E. 15th St., for catalogs. See page 48.

Four Great Jack Sales in Four Days.

Commencing with Monday, February 28th, at Mr. W. J. Finley's sale, at Higginsville, Mo., the men who are

mealy points. The Starlight jack, Starlight Jr., will please some critical buyer. Mr. Roan sells also a great string of jennets bred to his stud jack, Mammoth J. C., the sire of Cloverleaf Mammoth. See page 46 for Mr. Roan's advertisement, send for his catalog and kindly mention this paper when doing so.

Last Call for Lakeside Clydesdales.

On Wednesday, March 2d, Mr. Len H. Lamar, of Storm Lake, Iowa, will offer for sale at public auction, forty-five head of imported, Canadian-bred and American-bred Clydesdale mares. Thirty-five of these are good, strong, thrifty mares from three to six years old, weighing from 1,550 to 1,800 pounds and bred to some of the best stallions produced in the United States and Canada. These mares have all been wintered at Mr. Lamar's Lakeside Farm and they are, therefore, thoroughly acclimated and ready for hard work. Many of them have been doing ordinary farm work while raising colts. There are ten head of yearlings and weanlings that will more than double their value in the hands of purchasers. These mares are all big, strong, sound in every way and with good legs and feet under them. They are all young and there are no culls. This is the first Clydesdale offering which Mr. Lamar has made and he wishes to have it thoroughly understood that he is putting up nothing but the very best. He intends to continue in the Clydesdale business and hopes that this sale may be the means of establishing a reputation which shall be capital for him in the future. Catalogs are now ready and may be had on application. They give pedigrees and descriptions, and also mention the especially liberal terms that will be made for this sale. To secure the catalog write to Mr. Len H. Lamar, Storm Lake, Iowa, mentioning The Homestead. See page 53.

Lefebure's Royal Belgians.

There are few importers or breeders of draft horses who have met with such outstanding success as has Mr. Henry Lefebure, of Fairfax, Iowa, whose advertisement will be found on page 47. Mr. Lefebure has been in the business practically all his life. His father established the present farm and began the business of importing at Fairfax, Iowa, in 1888. From that time until today annual importations have been made of such Belgians as could only be found on the very best Belgian producing farms in Belgium. Mr. Lefebure, being a native of Belgium, speaks the language fluently, has a wide acquaintance throughout the horse-producing sections of that country, and in addition has the assistance and influence of relatives who are prominently connected with the horse raisers. In the show rings of state fairs and national expositions Mr. Henry Lefebure's exhibits have always attracted wide attention, and scarcely ever have they left the ring without carrying off a large share of the best ribbons. The latest importation, which included twenty head, arrived at the farm at Fairfax, on the 17th of February. It comprised a magnificent selection of stallions and mares such as will certainly be a credit to the communities to which they go. They are high class. They have true Belgian character, and with all their draftiness carry also stylishness and hence an appearance that makes them highly attractive. This importation added to the numbers already on hand makes the Lefebure barn headquarters for the largest collection of Belgians to be found in America. Five big barns are filled with them. Buyers will find not only imported stock, but an equally fine collection of home-bred animals of both sexes. The buyer who is seeking for something to put into the best show rings may be accommodated. The practical man who wants Belgians purely for breeding purposes will be equally as well suited. There are cheaper animals, too, to answer the purposes of the man who, while feeling the need of improvement, cannot afford to select high-priced ones. Mr. Lefebure has sold horses to hundreds of prominent people in the past and has given them universal satisfaction. He sells every animal under an absolute guarantee that if it should fail in usefulness it may be returned and another equally as good substituted for it. There is no higgling in a case of this kind, but square, fair and honest treatment will be given to every patron. It is a pleasure to recommend our readers to business men like Mr. Lefebure. We know that they will be satisfied in their deals with him. Fairfax is located only a short distance west of Cedar Rapids on the main line of the C. & N. W. R. R. and on the Cedar Rapids and Ottumwa branch of the C. M. & St. P. R. R. It can also be reached over the Cedar Rapids and Iowa City Interurban line. Those who wish to go by the latter route should

NEXT WEEK'S SALE PROGRAM

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| Monday,
February 28 | Jacks and Jennets, W. J. Finley, Higginsville, Mo. |
| Tuesday,
March 1 | Herefords, C. A. Stannard, Emporia, Kan.
Jacks, Jennets and Saddle Horses, L. M. Monsees & Sons, Smithton, Mo. |
| Wednesday,
March 2 | Clydesdale Mares, Len H. Lamar, Storm Lake, Iowa.
Herefords, C. A. Stannard, Emporia, Kan.
Jacks and Jennets, L. M. Monsees & Sons, Smithton, Mo. |
| Thursday,
March 3 | Herefords, C. A. Stannard, Emporia, Kan.
Jacks and Jennets, Petty Bros., Sedalia, Mo. |

herd bulls. Write Mr. S. A. Bixler about these bulls at once and kindly mention The Homestead.

Great Opportunity to Buy Bulls.

The sale of Herefords to be held at Kansas City, Mo., on March 8th and 9th, by Messrs. Funkhouser, Gabbert and others, is going to prove a golden opportunity for the bull buyer, as there are ninety head listed. As good breeding as is found in the herd books is found in the list of animals cataloged. There are also cataloged some of the best productions of each of the good herds represented and a glance at the list of contributors to this sale is sufficient guarantee of the quality of the cattle to be sold. The noted herd owned by Mr. C. W. Armour, of Kansas City, Mo., is represented by eight head of bulls. These are high-class individuals just at two years of age and are the same kind that have enabled Mr. Armour to secure such a high average on stock that he has contributed to former sales. Imp. Majestic, Young March On, Armour Anxiety, Ten Strike and Majestic Southington are the sires represented. The dams are cows Mr. Armour holds above price. Three are imported cows, one a cow Mr. Armour selected from his majesty's herd and is one of the best-bred things ever imported. Mr. Willis, manager of the noted Funkhouser Estate herd, is sending some worthy representatives of the noted March On 6th. In Onward Hesiod and Onward Lad the blood of Hesiod 2d, March On 6th and Anxiety 4th has blended so nicely that the result is two great herd bull propositions, one a bull that is a rare show animal. Two sons of the mighty March On 6th and a few choice heifers complete the Funkhouser contribution. Messrs. Makin Bros.' noted sire of show cattle, Beau Paragon, is well represented and they desire to call special attention to Paragon 23d, a full brother to their noted show heifer, Graceful 2d. They also sell Beau Adventurer, a half-brother to Beau Paragon. He has a creditable show record and is an all-round good bull. Mr. Roht, H. Hazlett sells three extra good young bulls, two by Beau Beauty, one by Beau Brummel 10th. They are intensely bred along Anxiety 4th lines, are the thick-fleshed type with lots of character and like all the bulls Mr. Hazlett permits to leave his herd as bulls, are herd headers. Mr. James A. Gibson contributes five head, all got by Generous 228518, his strongly-bred Anxiety-bred bull that has proven a great breeding bull. The grand sire of three dams represented was Sir Charming, an American Royal winner. Lots 49 and 50 are yearlings Mr. Gibson thinks fit to head good herds. Mr. S. L. Standish sends one bull and five heifers all by his great breeding bull, Onward 4th. The bull is one of the best things Mr. Standish has ever put in a sale. Mr. C. N. Moore is sending to the sale his herd bull, Beau Gallant, one of the few living sons of Beau Brummel. He was bred by Messrs. Gudgeon & Simpson, made the reputation of the Watt herd and has gotten for Mr. Moore a great string of females which he wishes to retain, hence is selling Beau Gallant. Mr. R. T. Thornton also sells in Aguinaldo 216720 a high-class herd bull got by the Anxiety-bred bull, Hero, and out of a

hunting for Mammoth jacks and jennets have in store rare treats in the way of high-class offerings. On Tuesday and Wednesday, March 1st and 2d, the great Monsees & Sons' sale takes place at the famous Limestone Valley Farm, near Smithton, Mo. Special trains runs from Sedalia, Mo., to Smithton, Mo., each morning of the sale and return in the evening after the sale. Thirty mule teams will meet the train at Smithton to convey the crowds to Limestone Valley Farm. The closing day, Thursday, March 3d, is at the Petty Bros.' farm, two miles out from Sedalia. These gentlemen sell last, but those who think they have not the goods will be happily disappointed. Never before in the history of the jack breeding business has there been gathered for sale so many great jacks as are to sell these four days. Each sale has its greatest jack and each sale has several great jacks. It is an opportunity unexcelled to see and to have an opportunity at so great a string of jacks and jennets and all at practically one expense. Arrange to start at the opening sale and stay the four days. You will be amply repaid for the time and expense. You will also find the trip equal to a vacation and trip for pleasure, as these annual events in this section of Missouri are looked forward to by each gentleman interested in the sales as the one time for him to entertain the throngs, and right royally is this part of the program carried out. Remember to be at Finley's sale, at Higginsville, Mo., on Monday, then stay with the party.

Roan's Cloverleaf Jack Farm Sale.

On Tuesday, March 15th, Mr. G. C. Roan, of La Plata, Mo., proprietor of the Cloverleaf Jack and Jennet Farm, will hold a sale of forty-five Mammoth jacks and jennets, the sale to be held on the fair grounds inside the city limits of La Plata. Mr. Roan has bred and handled the Mammoth jack all his life, but has made only one public sale and this proved so satisfactory to him and to those who bought his jacks and jennets that he has decided to make annual sales. For this event Mr. Roan has twenty-five Mammoth jacks and twenty jennets. It is a high-class bunch, all but three being blacks with mealy points and the oldest jack is an eight-year-old. The remainder run from two years up to this age. Mr. Roan says every jack is well broke and the matured jacks have proven getters of high-class mules. There are many jacks in the offering that stand fifteen and one-half hands high. All are the heavy-boned kind with good heads and ears and all are rich in Mammoth breeding. One of the best jacks in the offering is Cloverleaf Mammoth, a great two-year-old got by Mammoth J. C. He is a black with mealy points and stands fifteen and one-half hands high, standard measure. The aged jack, Burk 1644, an eight-year-old got by Bryan, is one of the good ones. He stands fifteen and one-quarter hands high and weighs 1,150 pounds. Someone will get a great mule jack here. Mammoth Bob 2439 and Harvey's Mammoth 2439 are two strictly high-class young jacks. Both were three years old last September and both were got by Walter's Mammoth, one of the greatest jacks ever owned in north Missouri. They have the bone, the head and ears and the blacks with



telephone to the farm from Cedar Rapids and a team will be sent to meet the car at Lefebure crossing. A handsome illustrated catalog will be sent free to readers of The Homestead who write for it to Mr. Henry Lefebure, Fairfax, Iowa.

Walnut Grove Holstein-Friesians.

Mr. Jesse Elliott, breeder of Holstein-Friesian cattle, at Woodward, Iowa, makes a change in his advertisement as it appears on page 49 of this issue. With reference to the stock offered for sale Mr. Elliott writes as follows: "We have still for sale a few extra good young bulls. They are of the dairy type, of fine quality and from A. R. O. dams and sires. We have one from Jorika, a cow with an A. R. O. record of eighteen and one-half pounds of butter in seven days, made under ordinary care and on dry feed. She is the most persistent milker we have ever known and her milk will average over 4 per cent fat. This calf is a year old, a good individual and mostly white in color. We have another good one, ready for service, out of a granddaughter of old Netherland Hengerveld, the cow that held the world's butter record for seven years. While this cow has not yet been tested she will be as soon as she freshens and, barring accidents, will make a large record. Her dam gave over 14,000 pounds of milk in a year and she is a better cow than her dam. When she was ten months old she was giving forty pounds of milk a day in spite of the fact that we were trying to turn her dry. We have another well-bred calf from a thirteen and one-half-pound three-year-old heifer, that will prove a good investment for someone. We also have a number of high-class bull calves from one week to six months old. Many of them are sired by Sir Payne Concordia, the only full brother to the champion butter cow of the world. Their dams are A. R. O. cows with good records." As the demand for Holstein-Friesians is very strong readers of The Homestead who wish to buy bulls should write at once to Mr. Jesse Elliott, Woodward, Iowa.

Wm. Cash's Great Angus Sale.

On March 11th, in the sale pavilion at Williamsburg, Iowa, Mr. Wm. Cash, one of the best-known breeders in the state, will sell fifty-two head of Aberdeen-Angus cattle, and it is an offering that will meet the expectations of the most critical lovers of this great breed of cattle. There will be forty-four cows and heifers and eight young bulls in the offering. The sale will follow that of Mr. M. H. Donohoe and every arrangement will be made to convey and care for the breeders who attend the former sale. At the head of the Cash herd stands the noted show bull, Black King of Homedale 2d, one of the greatest sons of Black King of Woodlawn. His dam is Blackwood 14th, a daughter of Black Monarch of Emerson. As a breeding bull he ranks today among the foremost sires of the breed, and his get in this sale cannot help but make a marked impression on those who attend this sale. This bull was a winner of first prize at the American Royal and first in class and junior champion at the International, and had many friends for grand champion in the same show. He topped the Chicago sale at \$1,725, and since that time has been used with the greatest success in the Wm. Cash herd. His offering is most excellent in point of breeding and is rarely excelled in point of individuality. There will be twenty-one head of Blackbirds in the sale, five Lady Idas, three Trojan Ericas, twelve Prides, including two K. Prides, and the remainder of the offering belongs to the celebrated Queen Mother tribe. Many of these cows and heifers will have calves at foot and a number of them will calve shortly after sale time. A marked feature of the Cash herd is the frequency with which the cows drop calves, indicating that he maintains a breeding herd of high order. His offering will be in excellent condition and he is selling some animals that are not to be excelled in any sale. Among the many good things that he is selling is the splendid four-year-old Blackbird cow, Blackbird of Cherokee 31st, a daughter of the noted Imp. Edward R. that heads the famous herd of Mr. H. L. Cantine. Her dam is Blackbird of Cherokee 13th, a daughter of the noted show and breeding bull, Woodlawn Blackbird 1st, and out of the well-known cow, Blackbird Lucile. She is well along to the service of Black King of Homedale 2d and she will make a most excellent proposition for some breeder to put into a herd. Ida's Beauty 2d is a six-year-old Lady Ida and is a daughter of King of Willowlawn 2d. Her dam is a daughter of Imp. Pretoria. She is safe in calf to the same bull and she is one of the best individuals in the sale. Etruria 2d is

ROAN'S GREAT SALE OF MAMMOTH JACKS AND JENNETS

Cloverleaf Valley Jack Farm, La Plata, Mo., Tuesday, March 15
25 JACKS—A HIGH-CLASS LOT—20 JENNETS

I WILL have in this sale 20 head of jacks all ready for service, a lot of them only 3-year-olds; the big, heavy-boned kind, with lots of head and ear; well broke to serve, with a lifetime of usefulness before them. Will also have 20 head of first-class breeding jennets, the majority of them safe in foal. Sale at Fair Grounds, inside city limits. La Plata is on the main line of the A. T. & S. Fe Ry., 135 miles east of Kansas City; also on Wabash, 40 miles north of Moberly. Write for catalog,

Cols. Cross and Harriman,
Auctioneers.

G. C. ROAN, LA PLATA, MO.



TOO LATE TO CLASSIFY.

WE HAVE HAD A VERY GOOD BOAR TRADE

AND still have a few good Col. males left, and they have plenty of quality. One sired by King Solomon 11., one sired by Tientsin 2d, the State Fair winner; one spring and one fall yearling sired by old Tientsin 17261. I could spare Tokio 79013, one of the best sons of Tientsin, a line bred Tolstoy boar, and has proven himself a splendid breeder, but owing to having so much stuff related to him, will spare him at a reasonable price; in fact, all the boar stuff we have will go at a very moderate price. We have quite a number of August and September Col. pigs. We will sell cheap, so come on and let us fit you out with a Col. boar; prices right. A. L. MOSSMAN & SON, RADCLIFFE, IOWA.

10 GOOD DUROC SOWS BRED 10 ALSO 2 CHOICE BOARS BY KING OF COLS. II

ALL are of our choice breeding. Sows bred to G. C.'s Kan. Col. by G. C.'s Col. and Col. C. by Kan. Col. 11. and out of Red Princess. Write or come and see them. Chapin & Nordstrum, Green, Kan.

sale this season. His dam is Fairyland Blackbird by Querfo, second dam Blackbird of Denison 37th. This calf is a richly-bred Blackbird, uniformly even in his lines, with good head, wide over the crops, good spread of rib, a splendid back and loin, and with a depth of quarter that will recommend him to the breeder who is looking for a good herd bull. There is a nice young Trojan Erica bull, just turned a year old, sired by Laird Ellemere and out of a daughter of Elmar Lad. There is also an extra choice Queen Mother bull in the sale by Black King of Oakville and out of a daughter of the noted show bull, Bobbie Dobbs, that will make a good show proposition for another year. Another good Queen Mother bull is sired by Black Woodlawn and two others by Black Dale, one of the best Blackbird bulls in the state. There is also a good Pride bull in the sale by Black Woodlawn. The female offering in this sale is outstanding in point of breeding and individual merit. Altogether, there are nineteen head in the sale, including females and bulls, that are sired by the celebrated bull, Black Woodlawn 42008, the bull that heads this herd. We seriously question whether there is an Angus bull living that enjoys a better reputation than Black Woodlawn. As a show and breeding bull he has stood in a class by himself, and his get in this sale are uniformly of a high character. Many of the most promising females in the sale are sired by him and there never was a better opportunity to secure some of his get. The Blackcap heifer, Blackcap M., sired by Black Woodlawn and out of the great cow, Blackbird McHenry 66th, is one of the outstanding young things in the offering, and no breeder will buy a better one this year. Another good heifer by Black Woodlawn is out of the noted World's Fair grand champion cow, Blackbird 26th. Among the other good Blackbird heifers by Black Woodlawn is one out of Blackbird Lassie Q., one out of Dolly Blackbird 9th, Blackbird of Cherokee 28th and Blackbird 23d. A breeder would not make any mistake in buying any one of these. Blackbird of Woodlawn 15th by Imp. Prince Ito, with a heifer calf

SANITARY HOG TROUGHS

WE should be pleased to tell you all about our troughs. They will save you money. Write us for description and prices.

THE LEHR AGRICULTURAL CO.,
Dept. "H." Fremont, Ohio.

Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales.

L. A. MATERN, - WESLEY, IOWA.

at foot by Glenmere Star Light, is an outstanding proposition. This cow is bred right and she is a splendid individual. Blackbird Lady 7th by the grand champion World's Fair bull, Prince Ito 2d, and out of Blackbird 23d by Black Monarch of Emerson, is one of the greatest heifers that will be sold in this sale. Blackcap 32d by Prince Ito Lad, and bred to Black Woodlawn, is also one of the choice things in the sale offering. Blackbird Mary, a four-year-old daughter of Brookside Star, is one of the very excellent cows in the sale, and she is bred to Black Woodlawn. She also has a good daughter in the sale by Black Dale. Another good cow is Blackbird McHenry 53d by Imp. Proterus and she is safe in calf to Black Dale. There are several other choice Blackbirds in the sale, there being twenty-two head altogether of this famous tribe. Among the good Trojan Ericas is Ellare, a daughter of the show bull, Western Star, safe in calf to Black Woodlawn. Erica Bride, sired by the well-known bull, Eraste, and out of Imp. Effulgence of Theakston, and bred to Black Woodlawn, is a good cow to go into any herd. This cow will have a calf by sale day. Erona of Alta 2d is a good three-year-old by the Binnie bull, Elmar Lad, and out of Imp. Erona, and she sells with a good calf at foot. Another good three-year-old Trojan Erica is Eunetta by Imp. Earl Erica of Ballindalloch, and she sells with a good bull calf at foot by Enamel's Eric. There are some good Trojan Erica heifers in the sale that are sired by Black Woodlawn and Black Dale. There are also a number of very choice Queen Mothers and Barbaras in the offering, and the entire lot, from one end to the other, is such as should command the attention of the best breeders and lovers of Aberdeen Angus cattle. Write for catalog at once and kindly mention The Homestead. See page 47.

Some Nebraska Draft Stallions.

Messrs. North & Robinson, of Grand Island, Neb., import and breed draft horses as advertised on page 54 of this issue. Under date of February 17th these gentlemen wrote as follows: "We are selling more registered stallions and mares than ever before so early in the season. Last week a two-year-old home-bred Percheron stallion, weighing nearly 2,100 pounds, was sold for \$2,000. We have also sent a number of good ones during the past two weeks. Our sale barns at Grand Island are filled with big-boned, good, ton stallions, both imported and home bred and registered. They are equally divided between the Percheron, Belgian and Shire breeds. Our barns at Cairo are swarming with horses coming one, two and three-year-old registered colts of draft breeds. Among them are about sixty fillies and mares up to six years old, a great many of which will now weigh over a ton each. Anyone visiting our barns will see a collection of fine draft horses rarely found together outside of a public horse show." The advertisers have published a 1910 blue book which is a large attractively-illustrated catalog showing actual photographs of many of their best horses. It will be sent free on request to Messrs. North & Robinson, Grand Island, Neb.



LAST CALL PETTY BROS.' JACK SALE, SEDALIA, MO., ON THURSDAY, MARCH 3D.

THE TWO GREATEST SALES OF THE SEASON OF HIGH-CLASS ABERDEEN ANGUS CATTLE

In Point of Individual Merit and Richness of Pedigree These Two Offerings Have Not Been Equaled in Recent Years. Show and Breeding Cattle Par Excellence. Both Bulls and Females.

M. H. DONOHUE, HOLBROOK, IA.

Sale to be held in new sale pavilion

THURSDAY, MARCH 10, '10

60 Head 51 FEMALES 60
...9 YOUNG BULLS...

22 BLACKBIRDS 9 PRIDES
8 TROJAN ERICAS 10 QUEEN MOTHERS

NEVER before has such a high-class lot of show and breeding cattle been sold from my noted Oakfield herd. There will be 19 head in the sale that are sired by the celebrated show and breeding bull, **Black Woodlawn**, and many of the females will be bred to him. Among these will be some outstanding show propositions. **Blackcap M.**, a daughter of **Black Woodlawn**, is one of the outstanding show propositions. **Brookside Blackbird 11th** by **Black Woodlawn** and out of the celebrated **World's Fair cow**, **Blackbird 26th**, is one of the choice things. **Blackbird of Woodlawn 15th** by **Imp. Prince Ito**, with a heifer calf at foot, will be one of the bargains of the sale. Some outstanding young bulls in the sale, among which is **Blackbird Jack**, a son of **Black Woodlawn**, and he is the choicest bull proposition of the year. Write for my catalog and come to the sale. Address

M. H. DONOHUE, HOLBROOK, IA.

Cols. Igo, Bellows and Jones, Auctioneers.

Wm. CASH, WILLIAMSBURG, IA.

Sale to be held in sale pavilion in town

FRIDAY, MARCH 11, 1910

52 Head 44 COWS and HEIFERS 52
8 BULLS

21 BLACKBIRDS 3 TROJAN ERICAS
5 LADY IDAS 12 PRIDES
2 K. PRIDES

THE remainder of the offering are **Queen Mothers**, a number of which will have calves at foot and others will calve shortly after sale time. Many of the very choice young things in the sale will be sired by my noted show and breeding bull, **Black King of Homedale 2d**, one of the greatest breeding bulls of the present day. There will also be daughters of **Imp. Edward R.**, **Imp. Prince 11th of Braevail**, **Black Woodlawn**, **Woodlawn Blackbird Lad**, **Imp. Earl Erie of Ballindalloch** and other famous sires. **Blackbird of Cloverdale 8th**, a daughter of **Black King of Homedale 2d**, is one of the outstanding heifers in my offering. I am selling 8 young bulls in the sale, three of which are **Blackbirds**. Write for my catalog at once. Address

Wm. CASH, WILLIAMSBURG, IA.

Cols. Igo, Bellows and Jones, Auctioneers.

WHEN WRITING FOR CATALOGS, KINDLY MENTION IOWA HOMESTEAD

Maple Lawn Percherons

60 PERCHERON STALLIONS AND MARES

AT PUBLIC AUCTION IN THE SALE PAVILION AT

Mitchell, S. D., Friday, March 11, 1910

25
STALLIONS
1 to 4
YEARS OLD,
MOSTLY
BLACK;
HEAVY
BONE,
AND
OF THE
TON
TYPE.



—AGRIGOLA 51280.

35
MARES
ages 1 to 6
years; 25 of
them safe in
foal to the
service of
TOREADOR,
the Interstate
Champion,
and other
imported horses
that I have
on
my farm.

THIS will be a grand opportunity to secure a good stallion or a pair of extra good young mares that are fully broken to work, and that are safe in foal to some of the best stallions in America; or a young stallion or a young filly, or a pair of young fillies. They are all blacks and grays, and several well-matched teams that would be a credit to any man to own. This is my third offering of Percheron horses at Mitchell, and is far the best that I have ever offered, from every standpoint. They all have the best of legs, the best of feet, and best of colors, and they are an honest lot of Percherons. Attend the sale and you will not be disappointed in the offering. For catalog, address, mentioning The Homestead,

P. W. Moir, Orange City, Ia.

Cols. F. M. Woods and P. McGuire, Auctioneers.

TOO LATE TO CLASSIFY.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

STALLIONS AND MARES

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog

HENRY LEFEBURE, FAIRFAX, IOWA.

JOHN MORAN

NEVADA, IOWA.

IMPORTER AND BREEDER OF

PERCHERON Stallions and Mares

At the present time I am offering twelve head of grand imported mares and three imported stallions at prices that will look attractive to buyers. If you are intending to buy come and see these stallions and mares. The mares are from yearlings up to four years of age, both blacks and grays, and matched pairs can be selected. For good goods at the right kind of prices I can satisfy your wants. Come and see me.

ORNAMENTAL Herd of Duroc gilts, bred to farrow in March and April; \$25 to \$40. For particulars, write S. S. Krebill, Donnellson, Iowa.

DUROCS

WE are not offering any just now, but watch for us. We have some of the best sows in the country, bred to boars of the same kind. We have a few extra good Red Polled bulls of serviceable age, and will price them right.

"The Always Better Kind."

C. W. Huff, Mondamin, Ia.

6 Short-horn Bulls FOR SALE

We are offering six head of good young Short-horn bulls for sale, five reds and one roan. Good ones and at reasonable prices. Write us at once.

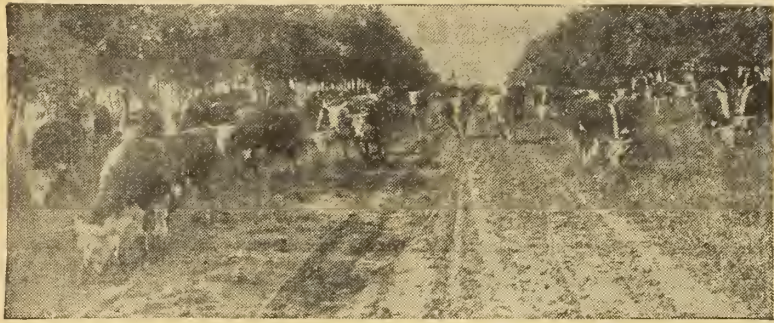
H. Pritchard & Son, Walnut, Iowa.

BRED SOWS

We have thirty head of well-bred Duroc Jersey sows, to farrow in March, April and May for sale, at \$35 to \$50.

WHITE BROS., PERRY, IOWA.

COMING DOWN THE ROAD WITH ANOTHER CONSIGNMENT OF BROOKMONT HEREFORDS AT BROOKMONT FARM PAVILION ODEBOLT, IA., TUESDAY, MARCH 15th



A BROOKMONT SHADY LANE IN SUMMER.

OUR third great sale of high-class breeding cattle will include a splendid selection of one hundred head of Brookmont Herefords—eighty females and twenty bulls. The cows are good milkers and regular producers—no other kind has been permitted to remain on the farm. They range in age from one to four years. They carry such blood as that of Dale, Imp. Chesterfield, Imp. Albany, Imp. March On, Lord Wilton, The Grove 3d, Beauchamp, etc. Those of sufficient age are safe in calf. The bulls are from six months to two years old, and have the same lines of ancestry. Health, thrift and condition are right. All have successfully been subjected to the tuberculin test. Come and see the cattle. Come and see the farm. Come and examine our plans and methods. Free entertainment. Free transportation to and from the farm. Auctioneers—Cols. Woods, Reppert and Tequist. For catalogs address

A. E. COOK, ODEBOLT, IA.

BROOKMONT BULLETIN

Here are a few of the Hereford cows—there will be eighty of them—that are to go into the Brookmont sale of March 15th, as per announcement in the preceding columns.

ETHEL MARCH ON 206519, by the great Imp. March On 76035 and out of Ethel 2d, she a granddaughter of that equally great old The Grove 3d, is one of the best cows and a splendid representative of the March On line. Too much cannot be said for this cow as she must be seen to be appreciated. Her calves will show how she breeds.

GIPSY PRINCESS 210684, by the great Thickset 68785, is a great cow and hard to excel. She is not only a choice individual but a regular producer. She has a calf at foot by Sullivan 294533. One calf from this cow will more than pay for her.

SUMMITT 178003, by Columbus 19h 91366 and out of Stella 89570, is a large, deep cow and almost a perfect type. She is a regular producer of excellent calves and would be a credit to any herd. She has a calf at foot by Imp. March On.

BRAZORIA 267633, by College Militant 136552 and out of Augusta 2d is a good, deep cow, a splendid type and an excellent breeder. She has a calf at foot by March On H. 22067.

IDLEWILD 323639, by Sailor 93833, is a good, deep, thick cow of excellent color and type and characteristic of the great Sailor line. She is a good milker and a regular producer of show stuff. She goes into the sale bred to Brigadier March On 272602.

ABIGAIL SAILOR, by Sailor 93833, and a granddaughter of the great Southington, is one of our best cows, with promise of an excellent career in Hereford history if given proper care.

FLAMINGO 32623, by Prince Rupert 209548, is an exceptionally fine cow, an excellent breeder and one that would make a valuable addition to any herd. Has been bred to Sullivan 294533.

BENTONIA 267623, by College Militant 136552, and out of College Lonsdale 9th, is a characteristic type of the College Militant line. She is an excellent milker and producer of some of our best calves. She has a calf at foot by Glencairn 297839.

CARESS PHILLIPI 161847, by the great Phillipi 61741 and out of Caress 34567, is another of our best cows. She has produced some of our leading show stuff and is an excellent breeder.

These and all others of this grand consignment are more fully described in the catalog for a copy of which address

A. E. COOK, ODEBOLT, IA.

HEREFORD Cattle

Good young cattle, bulls or heifers, for sale. Herd headed by Improver's Hesiod 107727. Blood lines of popular strains.
D. S. O'LEARY - IOWA CITY, IOWA.

LIVE STOCK AUCTIONEERS.



FRED REPERT,
DECATUR, IND.
Live Stock Auctioneer.

Cattle Sales a
Specialty.....

Write for Dates and Terms.

ELWOOD J. PITTMAN
STERLING, ILLINOIS.

Fifteen years' experience
selling live stock.

Write for Terms and Dates.



N. G. Kraschel
MACON, ILL.

Live Stock Auctioneer

I have a wide acquaintance
among pure-bred breeders and
am thoroughly posted in my
vocation.

G. C. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere.
Reasonable terms. Have
pleased others; can please you.

Write for Dates.



PLINY NICHOLS
WEST LIBERTY, IOWA.

Live Stock Auctioneer

SALES made anywhere. Reason-
able terms. I also breed Poland
Chinas and Short horns.



90 BULLS 120--HEREFORDS--120 30 COWS



120--HEREFORDS--120

IN THE FOURTH ANNUAL SALE BY

Funkhouser, Gabbert and Others

TO BE HELD AT

KANSAS CITY, MISSOURI, MARCH 8-9, 1910



90 High-Class Bulls--30 Cows and Heifers

BREEDERS, FARMERS AND RANCHMEN CAN ALL BUY HERE.

Will the SHORTAGE of beef cattle with INCREASED DEMAND, mean HIGHER PRICES? Haven't you had SUFFICIENT WARNING that this country is facing a SCARCITY of beef cattle? Can you afford to raise scrubs or common cattle on HIGH-PRICED LAND and HIGH-PRICED FEED? Answer these questions yourself. To those who have attended THIS annual event, it is only necessary to say, the offering will be STRICTLY up to our STANDARD. To those who have not, we extend an URGENT invitation to attend this sale and be convinced of the well ESTABLISHED FACT that at no place on the GLOBE can such BAR-GAINS in either QUALITY, BREEDING or PRICE in PURE-BRED CATTLE be had as at OUR KANSAS CITY SALES.

Your very truly,

C. W. Armour, Kansas City, Mo.
S. L. Standish, Hume, Mo.
Benton Gabbert, Dearborn, Mo.
S. J. Gabbert, Dearborn, Mo.
C. N. Moore, Lee's Summit, Mo.

J. W. Lenox, Lake City, Mo.
W. A. Dallmeyer, Jefferson City, Mo.
R. T. Thornton, Kansas City, Mo.
Funkhouser Estate, Plattsburg, Mo.

Egger Hereford Cattle Co., Appleton City, Mo.

R. H. Hazlett, Eldorado, Kan.
T. W. Carmichael, Odessa, Mo.
Makin Bros., Grandview, Mo.
Scott & March, Belton, Mo.
James A. Gibson, Odessa, Mo.

For catalogs and further information address

R. T. THORNTON, 1309 E. 15th Street, KANSAS CITY, MO.

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J. L. McILRATH

GRINNELL, IOWA.

Fine Stock Auctioneer

Duroc Jersey and Poland China hogs and Short-horn cattle my specialty. My customers my references. Ask them. Write me.

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Thoroughly posted as to pedigrees and values.
Write for dates. Terms reasonable.

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CLEARFIELD, IOWA.

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Pure bred sales specialty

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Talk English and German. Write me at once.

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Pedigreed Live Stock
Maryville, Mo





DISPERSION SALE

AT
SUNNY SLOPE FARM
EMPORIA, KAN.,
OF



THE GREAT SUNNY SLOPE HERD OF HEREFORD CATTLE

TUESDAY, WEDNESDAY AND THURSDAY, **MARCH 1, 2 and 3, 1910**

250 30 two-year-old heifers in calf, 30 yearling heifers, 100 cows from 3 to 8 years old, 30 bulls, 60 calves of both sexes to be sold with their mothers **250**

Never before in Hereford history has such an opportunity been offered buyers of pure-bred cattle. The entire show herd is included and the four Great Herd Bulls, Beau Mystic, Expectation, Beau Doncaster and Beau Mystic 11th. Beau Mystic, I believe, is the most valuable Hereford bull in America. He was shown two years at the leading fairs of the country and was never defeated but once, and then he walked to the show ring on three legs. I believe he can defeat any bull in the country in next year's show, and I doubt if any breeder can show as fine a lot of cattle as I will show you on sale day by this bull. It is his ability to produce good ones that makes him valuable rather than his show record.

On March 3d I will sell 25 mares and horses, 30 milk cows, 40 pure-bred Berkshire hogs, 12 sheep, farm machinery and household goods.

Sunny Slope Farm is the best advertised pure-bred breeding establishment in America, and is situated from a buyer's standpoint as good as any in America. One hundred thousand dollars will not advertise your farm as well as this one has been advertised. It is for sale. Nine hundred and seventy acres for \$60,000. Land adjoining it is selling for \$65 per acre. The farm will be sold at private sale. Everything else at auction. Write for catalog and remember the dates, March 1st, 2d and 3d. Address



**C. A. STANNARD
EMPORIA, KAN.**

Auctioneers--Cols. F. M. Woods, R. E. Edmonson, Geo. P. Bellows, Thos. Scofield.



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AUCTIONEER JOKER, published monthly at 50c per year. Address: Trenton, Mo., until March 4th, after that date Oklahoma City, Okla.

H.L. Igleheart

Glendale, Kentucky,

Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

CAREY M. JONES,
Live Stock and Real Estate
Auctioneer,

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Phone West 1223.

If you want to buy or sell a Farm, City Property or Subdivision, no matter where located, write for terms and dates.

GEO. B. BUCK
SUNNY HILL, ILL.

LIVE STOCK AUCTIONEER

I AM thoroughly posted on all breeds of live stock. Breeder of Red Polled cattle and Duroc Jersey hogs. Write for terms and dates.

W. K. HENSS, WAYLAND, IA.
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YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

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A. V. LOCK, REMINGTON, INDIANA.
Live Stock Artist. Write me.

JERSEY CATTLE.

**A Serious Case of Milk Fever
DID NOT STOP
Honey Pilotta 181786**

SHE gave in the year just past over 8,000 lbs. milk. Her 6 months bull calf by a son of Golden Fern's Lad, is a real bargain at \$50.
SUNNY PEAK FARM, Elm Grove, Wis.

King Sappho King Jerseys
WE offer a few mature cows for breeding purposes, a few young cows and heifers and a magnificent lot of young bulls sired by King Sappho King 65262 and Loretta D's Champion Son 77002.
J. Q. Emery & Son, Edgerton, Wisconsin.

VALLEY FARM
IS offering a few yearling bulls sired by Blue Bell's Eminent 74774. Also a few bull calves. These are a fine bunch and will be sold cheap. For particulars, write Fred Stunney, Black Earth, Wis.

HOLSTEIN-FRIESIAN CATTLE.

Rock Brook HOLSTEINS

I have a few choice young bulls for sale that are fit to head good herds.

Also a few choice cows and heifers for sale.

HENRY C. GLISSMAN,

Station B,

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HIGH GRADE HOLSTEINS

COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want.

RIVERSIDE STOCK YARDS, ALGONQUIN, ILL.

Registered Holsteins (Established 1876.)

THE two greatest sires of the breed, Paul Beets DeKol and Hengerveld DeKol have more sons and daughters in this herd than any herd in the world. Plenty of stock for sale.

R. E. HAEGER, ALGONQUIN, ILLINOIS.

PURE-BRED HOLSTEIN CATTLE

Read and re-read, and then memorize the following: The champion Holstein cow of the world averaged for 365 days 75.2 pounds of milk and 2.74 pounds of butter fat a day; 19.2 pounds of butter fat a week, totaling 998.20 pounds of butter fat from 27,432.5 pounds of milk in the 365 days. This shows an average for the year of 3.64% of butter fat. This is equal to 13,063 quarts worth \$1,175.76 at the present price of 9c., or 1,164.63 pounds of butter worth \$442.56 at 38c. per pound. This is a true story of one cow. Doesn't it give you a reason for using Holsteins? Remember

"Holsteins are the most profitable cattle."

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HOLSTEIN-FRIESIAN ASSOCIATION

113 American Bldg., Brattleboro, Vt.

NOTICE

50 Holstein Bulls for Sale

20 From A. R. O. dams and rest from dams that are all high-class, registered cows. These bulls are in age from 5 to 14 months; well-grown and first-class individuals, from dams that are kept for profit. These bulls are sired by two sons of Homestead Jr. DeKol, the sire of Grace Fayne 2d's Homestead, world's champion cow. Balance by Johann Rne, Sarcastic Lad, 12 A. R. O. daughters and close up in breeding of Colantha 4th Johanna. Prices low according to stock. Mention this paper when inquiring. For information, address

L. G. LEGLER, JUDA, WISCONSIN.

HOLSTEINS

LAKE MILLS, WISCONSIN

100 HEAD to select from, bred from the leading strains. Parties wanting bulls or females to improve their herds, write us, we can supply you. High-grades in car lots picked up on short notice.

WM. EVERSON & SONS

20 HOLSTEIN BULLS

From two weeks to eight months old. Fashionable breeding, large milking dams. Sir Netherland Cornucopia, whose two nearest dams average thirty pounds butter, and six nearest dams twenty-five pounds in seven days at head of herd. Prices moderate. Send for sale list.

WOODLAWN FARM, STERLING, ILL.

MONONA FARM HERD

Of pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

F. W. ALLIS, MADISON, WISCONSIN.

Registered HOLSTEINS

10 Bulls fit for service.

Cows and heifers any age.

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MAPLE LANE Holsteins

MALES and females for sale. Herd numbers eighty head. Tuberculin tested. We guarantee our stock. T. J. BARMORE, Monroe, Wis.

ELLIOTT'S Holstein-Friesians

YOUNG bulls from A. R. O. dams, for sale. They are our own breeding and will prove money makers for you. Buy the best and succeed. JESSE R. ELLIOTT, WOODWARD, IOWA

Holsteins for Sale Wish to sell small herd, part registered and part high grade. Address C. A. Gier, Wisner, Nebraska.

Wanted A car load of high-grade Holstein or Guernsey cows and heifers. State price. J. S. Brandt, Route 2, Clermont, Iowa.

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Clovermead Polled Durhams for sale. A few bull calves, cows and heifers; quality and prices right. Win. Barrens, Lenox, Iowa.

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FOR SALE Bulls from three to fifteen months of age. Dams have made from four to seven hundred pounds of butter in one year, official test. Send for sale list.

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THE herd numbers about 90 head. We are breeding for production and at this time are offering a few males and females at reasonable prices. If you are interested in Guernseys write or call upon

A. W. and F. E. Fox, Waukesha, Wis.

BONNY BOY GUERNSEYS

I have a few young bulls for sale at this time. They are from some of my best milking dams. Address,
RALPH TRATT, WHITEWATER, WIS.

SUNNY VALLEY GUERNSEYS

Males and Females for Sale

WRITE TODAY.

W. M. JONES, WAUKESHA, WIS.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 9356, a son of Stranford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pluehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls.

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GUERNSEY HEIFERS

They are as good as could be bought on the Island.

Yearlings and two-year-olds, at from \$200 up.

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ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otee and other cows equally well known. Write your wants; we can suit you. A. G. Abney, North Lomp, Valley Co., Neb.

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HEIFERS, cows and bulls. Anything you want at popular prices. Oldest herd of Galloways in Iowa County. Address

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SEAMAN'S Red Polled Cattle, 50 h'd, the equal of any ever sold in Ia. 7 yr. old, 2-yr. old, bulls, 40 to 50 cows and heifers of the greatest milking families known to the breed. Part of the old W. H. Seaman herd, Davenport, Ia. Visitors can be shown 125 head of as good Red Polled as can be found in U.S. (Gis C. Seaman, R. 5, Davenport, Ia. Telephone to farm.

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YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. Fred Tschudy & Sons, Monroe, Wis.

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35 SCOTCH SHORT-HORN BULLS

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Choice Short-horns at Bargain Prices

(CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fame 197980, and bred to my Crutckshank Flora bull, Narcissus King 239586. One extra good bull 16 months old by Royal Fame; 11 younger bulls, mostly by Narcissus King. A choice lot to select from at bargain prices; singly or car load. Address

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Three Pure Scotch Bulls FOR SALE

TWELVE to 16 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Crutckshank Rosemary. All got by Imp. Kinellair Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight.

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A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

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SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

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I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

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TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Brawith Lad. For description and prices, address

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I AM offering a splendid lot of young Scotch bulls for sale, sired by American Goods, a son of Imp. Choice Goods and Baron Kear 3d. Strictly all right and prices reasonable.

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HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

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6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address

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I AM offering one good Short-horn bull and one good Polled Durham bull for sale. I am pricing these bulls where anybody can afford to buy. Address

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FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch.

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Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all red; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live and let-live prices.

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I have for sale several richly bred and splendid individual bulls, reds and roans. The herd is headed by the Scotch bulls, Ringmaster and Choice Prince.

Nine straight Scotch bulls, two Scotch topped, now ready for service. Farm additions town. Address

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Head of High-Class Short-horns.

HELD headed by Champion's Counselor and The Dreamer. I have a number of very choice young bulls for sale. Address

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FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE HENFORD & SONS,

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Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.

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Short-horn bulls for sale, of serviceable age; all good, colors and choice breeding, and well grown. Prices right. Lee & Pendlis, Vermilion, S. D.

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We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices.

SMITH & BARNHART, South English, Iowa.

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SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

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EMANCIPATOR 5TH 821235.

We Are Offering Herefords

MALE OR FEMALE

of the choicest breeding and individuality. We meet anyone in price who will furnish the same quality of goods. Write us your wants.

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Polled Herefords

WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.

Warren Gammon & Son, Des Moines, Iowa. Originators of Polled Herefords.

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I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address

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Polled HEREFORDS

THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

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Am offering for sale the Hereford bull, Duke Jr. 326537, one-year-old. This is an A. No. 1 bull of the low-down type, priced right. Call on or address Geo. T. Knutson, R. 5, Alden, Iowa. (Farm 2½ miles from Buckeye.)

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WE are offering a splendid young Blackbird bull for sale; also one Jilt, one Pride and one Sybil. These are choice and we are pricing them right. Address Isenburger Bros., Battle Creek, In.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, sired by Applehurst Hero 3d and my double bred Trojan Erica bull, Erian's Equester; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

ABERDEEN Angus bulls for sale. We have as fine a lot of young bulls for sale, from 1 to 2 years old, as can be found anywhere. All of the fashionable families, and can suit the most particular buyer or anyone wanting a good bull at a reasonable price. Located 17 miles east of Des Moines on C. R. 1 & P. and I. C. Rys. R. Wilkinson & Sons, Mitchellville, Ia.

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THREE bulls for sale; also three bull calves, dropped last August and Sept. They are sired by ton bulls and out of one of the best cow herds in the state. My cattle have size, breeding, quality. Call on or address A. G. Messer, Grundy Center, Ia.

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Ericas, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

One Registered

Aberdeen Angus bull of serviceable age of good breeding. Address John Healey, Gilmore City, Iowa.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Dammhae, of Holbrook, Iowa, and P. Lenhy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

INVERNESS
ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address,

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HEADED by undefeated Oakville Quiet Lad and Thickset Blackbird. 10 young bulls by Glenfold Thickset, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thickset, priced right for quick sales. Farm in city limits. O. V. Battles, Manaketa, Iowa.

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POLAND CHINA SWINE.

WELLMAN HERD OF POLAND CHINA HOGS
AND SHORT-HORN CATTLE.

25 BRED gilts; 25 May, June and July born; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd headers a specialty. 10 head of choice young bulls, 8 to 15 months old; all deep reds; sired by Masterode 265763, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address

C. F. SHAFFER, R. R. 4, WELLMAN, IOWA.

50 LARGE-TYPE, BIG-BONED POLAND CHINA SOWS

THESE sows are sired by Hadley, P. W. Giant and Jumbo. They are bred to Hadley and Victor (he by Big Victor, second prize aged boar at Nebraska State Fair, 1909). Choice tried sows, 350 to 400 pounds, \$50 to \$75. Fall yearlings, 300 to 400 pounds, bred to farrow March and April, \$45 to \$75. Spring gilts, bred to Victor for April and May farrow, 200 to 260 pounds, \$32 to \$50. They are heavy-boned, smooth, well-grown sows, sired by \$100 and \$150 boars, bred to the same kind, and as good as are grown. Sold 85 boars and sows this fall at an average of \$40. Shipped to eight states. Sold 1,000 for breeders in seven years. Careful selections made for mail orders. Pedigrees furnished at time of sale.

F. W. McINTYRE - R. F. D. 5 - RED OAK, IOWA.

PODENDORF'S BIG-TYPE

Poland China Bred Sows

I AM offering a splendid lot of strictly big-type, with quality combined, Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.

A. J. PODENDORF, LOGAN, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to these boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton.

FIELD BROS., HINTON, IOWA

50 Big-Type, Big-Boned Bred Sows

WE are offering 50 head of extra fine, big-type, big-boned, quality kind. These are sired by our invincible trio of big boars, viz.—W's Major, 45237, Young Look 47722, Pawnee Price 47721, and bred to above-named boars and a grandson of Grand Look and Expansion. Twenty-one sows farrowed 210 pigs in 1909. For size, quality and prolificacy, these cannot be beaten. Guaranteed as described. Priced right. Call or write.

WILLIAMS BROS., Route 3, VILLISCA, IOWA.

Poland China Bred Sows

WE have for sale some choice, tried, aged sows, bred for March and April farrow; also 25 growthy last March gilts, sired by several different herd boars, bred for March farrow. Write for description and prices. Bridgford & Nesbitt, R. 3, Alledo, Ill.

POLAND CHINAS

FORTY BRED SOWS—BIG TYPE

BIG-TYPE Polands with big-type blood lines sired by Napoleon Chief 84169 and bred to Corn Belt Expansion 153155 for March and April farrow. Write for prices and des. C. K. Hanson, Neshua, Ia.

Poland China Bred Sows

I have a few choice bred sows and gilts for sale at private treaty. Address

D. C. LONERGAN, Florence, Nebraska.

PINE VALLEY STOCK FARM

HEREFORD cattle and Poland China hogs. We have sold out of hogs for this year, but have a few extra good bulls sired by March On 16th, Weston Anxiety; other great bulls. Come, see us; write us your wants. Prices right. Schain & Keep, Atlantic, Ia.

Poland China Bred Sows for Sale

I AM offering a choice lot of Poland China sows and gilts for sale at reasonable prices. Pedigrees furnished with sows. Address

HERMAN BALTZ, Fremont, Nebraska.

When writing to advertisers please mention this paper.

CHESTER WHITE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE

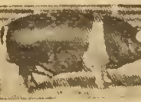


My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

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WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.



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WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.

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STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper.

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HAMPSHIRE SWINE

Some choice Aug. and Sept. fall pigs for sale. Write

GEO. LIPPERT, Magnolia, Illinois



HAMPSHIRE Swine

WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.

25 Head of Spring Boars

5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable.

H. D. DEKALB, DEKALB, IOWA.

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CHESTER WHITE SWINE.

Iowa Herd of Improved Chester White Swine

40 Aged sows for sale, reasonable, sired by such noted boars as Monarch Jr., Jerry S., Captain, Col. Sutton, Chief Commander and Allright. These sows will be bred to White Rock and Christopher 1st; latter won first and champion, Iowa State Fair, 1908; first and champion, Nebraska and Illinois State Fairs, 1909. Also two aged boars and a number of spring males and gilts. If in need of anything in this line, write me today or visit my herd. I ship on approval; if not satisfied, no sale. Mention Homestead. Thus, F. Kent (Successor to Geo. H. Lawshe), R. 2, Walnut, Iowa.

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 2d 5465, champion Iowa State Fair, 1909, and Minnesota State Fair, 1908; and Modeler 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented. W. F. HEMMERLING, DIKE, IOWA.

Mear's Chester Whites

4 fall boars and a great string of pigs by

NEPONSET ED. 16711

Are ready to ship any day. All are strictly high-class. Write or come.

E. L. MEAR, LAMAR, MO.

AMERICAN HERD OF IMPROVED CHESTER WHITES

Thirty choice spring gilts for sale, bred to Attractor 19289, a boar of extra length and bone, for March and April farrow. Call and inspect them or write for prices and descriptions.

ALDEN ANDERSON, RADCLIFFE, IOWA.

25 FALL PIGS FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Alcedo Belle and Delta Girl. These pigs will be priced worth the money.

E. L. NAGLE & SON, Deep River, Iowa.

25 Chester White BRED GILTS

FOR SALE at private treaty. Sired by Neponset Boy, Mear's Medium and Mike by O. K. Mikado. These sows are bred for March and April farrow. Prices reasonable.

D. H. LEWIS, Geneseo, Ill.

BROOD SOWS—Reserving nothing but the aged sows; will let go best stuff I have raised. Bred to such boars as Joker, that has won more premiums than any hog living or dead. A "Triumph" hog that sold for the largest price of any hog of the breed. Weighed at 19 months, 720 lbs., and two extra good young hogs. J. H. Mahannah, North English, Iowa.

SCARFF'S O. I. C.'s

AM offering a fine bunch of O. I. C. males and gilts with extra length and bone, sired by Sweepstakes boar, Norway Chief, and Ohio Chief. Prices \$20 and up. Write for descriptions.

J. T. SCARFF, SALEM, IOWA.

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GROWTHY spring gilts, from prolific families that raise big pigs and lots of them, bred for March and April litters. Price right. Stock shipped on approval. J. S. Kennedy, Bleckton, Iowa.

CROSIER'S O. I. C. BARGAINS

CHOICE bred sows and gilts bred to White Wonder for March, April and May farrow. Also four males. Priced at the bottom. Write now to C. W. CROSIER, JENIATA, NEBRASKA.

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address S. J. Philson, Harlan, Iowa.

O. I. C. WHITES, Sept., Feb., Mar., April boars, gilts, bred sows; stock matured; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

I HAVE A FEW GOOD CHESTER WHITE SOWS safe in pig for sale. Prices very reasonable. Address V. A. Lathrup, Marion, Iowa.

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa.

MEHRING choice O. I. C., strong-boned, smooth, well-quartered gilts for sale; some fine Shropshire ewes; low price. H. C. Mehring, Manson, Ia.

DUROC JERSEY SWINE.

GOLDEN MODEL heads herd, assisted by Advancer 1st. Will sell 8 head Golden Model sows in the Olson Bros. sale at Woodward, Ia., Jan. 31st, bred to Advancer 1st. Five are litter sisters to my show herd of 1909, which won 11 ribbons at Iowa, Iowa Interstate, Neb., Minn., Wis. State Fairs; 4 1st, 3 2d, 2 4th and 2 5th prizes. O. A. Olson, Madrid, Iowa.

Crimson Wonder I Am

SIX winter boars by this great sire now ready to go out. All of them crack-cuts. Three fall boars by American Crimson Wonder. Nothing but show yard quality to offer. U. G. Davidson, Scranton, Iowa.

For Sale—Duroc Jersey Sows and Gilts

Bred for April farrow. L. L. WOODS, GRINNELL, IOWA.

KEAN'S DUROC Bred gilts, popular breeding at moderate prices. Address FRANK KEAN, MT. PLEASANT, IOWA.

DUROC bred gilts, sired by Ponca Chief by Belle's Chief, not large, as I have been short of feed. Priced right. F. A. Ham, Saronville, Nebraska.

DUROC JERSEY SWINE.

Crimson Wonder Again Fall Boars for Sale

SOME great show prospects among these. Also some great herd boars. These are big and smooth, and priced to move. Also some good sows bred to C. W. A. for May farrow.

H. S. ALLEN, RUSSELL, IOWA.

W. J. HARTUNG

MAXWELL, IOWA.

25 DUROC sows sired by S. E.'s Jr. Jim, Advancer IV., Golden Model II., and bred to W. J.'s Colonel by Prince of Colonels, and son of Golden Model II., for March and April farrow. Priced from \$25 to \$50. Swedish Regenerated Select Seed Oats, \$1 per bushel, or 10 bushels for \$9; sacks free. They yielded 60 bu. per acre last year. Write if you mean business.

Do You Want Well Bred Duroc Jersey Sows

I HAVE them and they are good, sired by such noted boars as Crimson Wonder Again, Guthrie Chief, I Am Advance, Golden Model 2d and others. Write me for prices on these sows.

GEO. H. MILLER, CHARITON, IOWA.

Helen's Chief High Notcher

Glad Col. and King's Col. head my herd of Durocs. I will sell King's Col. by King of Cols. Write for price.

M. A. KRASCHEL, MACON, ILLINOIS.

Duroc Jersey

Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

ARTHUR L. PARKS, LELAND, ILL.

10 DUROC JERSEY GILTS

WE have disposed of all our older sows and now wish to sell ten fine spring gilts bred to Cross' Colonel 93027 for May farrow. They are good ones and will be sold right. Address

L. W. Cross & Son, Mason City, Illinois.

I Have 75 Spring Gilts

THAT I am pricing to sell within the next thirty days. Sired by Col. Chief, Fancy Critic and others, and bred for March and April farrow. Prices reasonable. J. P. Peterson, Hermann, Neb.

DUROC JERSEY BRED SOWS FOR SALE

I AM offering 20 head of well-bred sows for sale, bred to my noted boars. Two of these are daughters of Ohio Chief. Bred for March and April farrow. Prices reasonable. Address O. E. Osborn, Weston, Ia.

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banker 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows. VON SEGGERS BROS., WISNER, NEB.

25 DUROC JERSEY BRED SOWS FOR SALE

SURED by King Solomon II., Advancer's Choice; 5 others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once. Address A. Leutz & Son, Piersan, Iowa.

Duroc Jersey Gilts

A FEW choice gilts of good breeding, out of matured sows, and bred to Royal Advance 81963, Royal King and Model Duke (son of Golden Model 2d). C. E. Longnecker, Maxwell, Iowa.

J. D. Wright, West Liberty, Ia.

OFFERS spring pigs of either sex at bargain prices. Fashionable families. Individual excellence to suit discriminating buyers. Write for prices and descriptions or visit herd.

MIDLAND Durocs—8 gilts and 2 sows, bred for April farrow, for sale. The big-boned, growthy kind at moderate prices. S. J. Butts, Mason City, Ia.

FORTY SELECT DUROCS AT AUCTION



WEDNESDAY, MARCH 9TH

AT THE

Lien Ranch, Platte, S. D.



We have selected forty head of choice gilts that are sired by the following sires: The King's Jester 45521, sire Tip Top Notcher, dam the Lad's Goldie; Dakota Chief 81897, sire Chic's Chief, dam Oak Lawn Queen; Choice Bredwell 58559, sire W. L. A.'s Choice Goods, dam Topsy Belle. We have this year added to our herd a noted hog, The King 22305, sire King Pal 17221, dam Mamilla 42416. This hog needs no write-up, as he talks for himself when you look up his breeding. These sows are bred to The King 22305, Choice Bredwell 58559, King of Colonels 86629 and Masterpiece Climax 69335. We consider this as good a line of breeding as can be found in any herd. Catalogs are ready for distribution. Write for one. Purchasers coming from a distance will receive free entertainment at the local hotels. Bids sent to the auctioneer, the field men or to Lien Bros. will be handled with care and to the interest of the buyer.

LIEN BROS., PLATTE, S. DAKOTA, OWNERS

Col. W. R. Ritchie, Marathon, Iowa, Auct. E. T. Parker, Field Man for The Homestead.

DUROC JERSEY SWINE.

25 Duroc Jersey Bred Sows For Sale

I AM offering a choice lot of bred sows and gilts at private sale, bred to Iowa Model 124215 and Fancy Orion 86301. These sows are sired by the leading boars of the breed. Prices reasonable. Write me at once. Address MARK W. EDDY, FONTANELLE, IOWA.

BRIGHTON FARM DUROCS

A LIMITED number of aged sows, fall and spring gilts for sale. Descendants of Tolstoy, Pericles, A Achiever. Bred for March and April farrow to Walter Model by Golden Model 2d and Gen. Moon, a grandson of Crimson Wonder I Am. For prices and further description, write to HOFFMAN & CHAPMAN, WASHITA, IOWA.

Chapin & Nordstrum's Durocs

LITTERS by King of Cols. II, G. C.'s Col., G. C.'s Kansas Col. and Kelley's Pilot Wonder. Dams by Model Chief Again, C. E.'s Col. 2d, W. L. A.'s Choice Goods, Morton's Deeree, etc. Three yearling and 3 fall boars for sale; good ones. Also some bred gilts for fall litters. Chapin & Nordstrum, Green, Kansas.

40 HEAD DUROC JERSEY BROOD SOWS FOR SALE

SURED by Crimson Critic, I Am Advance, Belle's Chief I Am and other noted boars. Bred to Harding's King of Cols., and my other noted herd boars. 12 fall boar pigs for sale that are show prospects. Write me about these at once. Address R. J. HARDING, MACEDONIA, IOWA.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY. Write Your Wants.

King of Cols. Show Boars

WE are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

DUROCS

WE are breeding a string of sows and gilts for our winter sale that you'll like. All the popular blood lines. "Always trying to better the best." Watch this space—we'll tell you more about it.

G. W. HUFF, MONDAMIN, IA.

25 Duroc Jersey BROOD SOWS

FOR SALE at private treaty. Sired by Mammoth Critic, Belle's Chief I Am and Link's Ohio Critic. These sows are bred for March and April farrow. Prices reasonable.

T. J. LINK, Winterset, Iowa.

REEDS'

DUROC JERSEYS

BOARS all sold. We now offer high-class bred sows, sired by Model Chief 94969 and Advancer 28773, and bred to such noted boars as Model Chief 44969, Advancer 28773, the grand champion, Model Chief 2d 53753, and White Hall King 15972.

G. W. & W. M. REED, ROSE HILL, IOWA.

CHIEF'S COL. BOAR PIGS

OUT of the great brood sow, Helen Blazes, and sows by Ohio Chief, Proud Advance and other great boars. Pigs ready to ship. Address for price and description,

H. E. Browning, Hersman, Illinois.

Deyoe Bros., Mason City, Iowa, breeders of Duroc Jerseys. Bred sows for sale. Ohio Chief and Advancer strains; bred to a Col. boar.

BRED sows for sale; safe in pig by Crimson Rambler, Model Chief 9th and Crimson King. Prices reasonable; sows guaranteed. Jno. Justice, Ankeny, Ia.

DUROCS

A LIMITED number of choice gilts, grand-daughters of old Kant Be Beat for sale, bred to Model Chief Gold, a full brother to Model Chief 2d; bred to farrow in March and April; will be priced worth the money. Write

J. W. TROY & BROS., ROSE HILL, MAHASKA COUNTY, IOWA.

The "STAY THERE" Aluminum Ear Markers

are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address

WILCOX & HARVEY MFG. CO., Dept. A, 325 Dearborn St., Chicago, Ill.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

HIGH-CLASS DUROC JERSEY BRED SOWS FOR SALE

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel boar. These are good. Will not hold a sale and am selling them privately. Address

J. D. McDERMOTT, WIOTA, IOWA.

Elder's Durocs

KING OF COLS. II, G. C.'s COL. and 30 of Grant Chapin's best brood sows were purchased and from these I have 125 choice spring pigs. Herd boars and choice breeding sows will be my specialty. Write your wants.

FRANK ELDER, GREEN, KANSAS.

B. & C.'S COL. Grand champion, Illinois and Iowa, 1909, Crimson Wonder III., grand champion, Nebraska, 1908, and McNeil's Model, champion under year, Ohio, Indiana and Illinois, 1907. Sows all sold. A few good boar pigs. Address R. L. Comer, Carlinville, Illinois.

HORSES.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians so we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners. We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

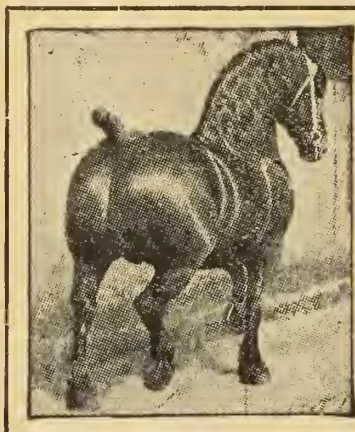
SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES



We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on

yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

PERCHERONS

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

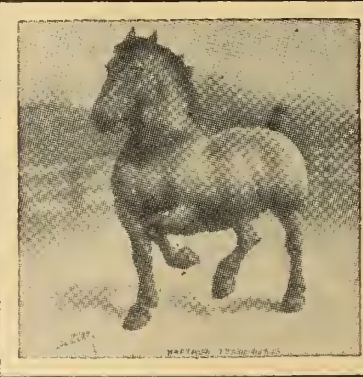
FIFTY stallions and thirty-five mares. We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA. C.O. Keiser, Keota, Iowa

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY

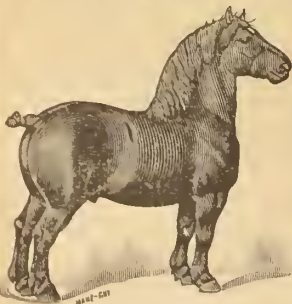


OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

YOU ARE MISSING THE OPPORTUNITY OF A LIFETIME



If you do not send and get **OUR NEW 1910 CATALOG** before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909 and are all in prime condition to go out on the stand and do a big season's business. They are nearly all solid colors, range in age from 3 to 6 years, in weight from 1,700 to 2,300 pounds. They are the big-boned, blocky type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a Government bond. **GET OUR CATALOG.** It is free for the asking.

WATSON, WOODS BROS. & KELLY CO., LINCOLN - NEBRASKA.

GEO. W. SOUERS & SONS, HUNTINGTON, IND.

IMPORTERS OF

PERCHERON AND BELGIAN ...HORSES...

If you want to see the best bunch of Belgian stallions to be found anywhere in the West, come to our Sioux City branch barn. Our guarantee is iron clad and there is no importer in the United States who can beat our terms and prices. A visit will convince you. Write for our 1910 catalog. Barns at the Sioux City Stock Yards.

Herbert E. Bray, Manager, Sioux City, Iowa

The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on imported Clydesdale Stallions and Mares; also a few choicely bred hackneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U. S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C., R. I. & P. Railway, forty miles northwest of Peoria, Illinois.



Ensign's PERCHERONS



OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write

S. A. ENSIGN, CLEGHORN, IOWA
C. A. PINGEON, Sale Manager.

HORSES AND JACKS.

CLYDESDALE MARE SALE

LAKESIDE FARM, Storm Lake, Iowa, WEDNESDAY, MARCH 2, 1910

40 REGISTERED CLYDESDALE BROOD MARES

BRED to the best stallions of the breed, and most of them already heavy in foal. These are big, clean, honest brood mares and every one a work horse. They have been bred and raised to work. They are bred right, carrying the very best blood lines of the breed. In foal to such sires as GARTLY PRIDE 14730, this year's champion of the International and New York Horse Shows, where he sold for \$6,500, and to McQUEEN 3513, the greatest sire of the breed in America. Also quite a number of mares sired by McQueen. These mares bred to good sons of Baron's Pride, too. These mares have all been wintered at Lakeside Farm and are thoroughly acclimated and can be depended upon to foal safely and do a good season's work. Write for catalog now.

AUCTIONEERS---Cols. P. McGuire, W. J. Murphy.

LAKESIDE FARM, Len H. Lamar, STORM LAKE, IOWA.

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.

Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1908 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.



CLYDESDALE MARES

I have 60 head of imported Canadian-bred and home-bred registered Clydesdale mares. All have been wintered in Iowa and are thoroughly acclimated and ready for hard work. Big, strong, thrifty brood mares, three to six years old, weighing 1,600 to 1,800 pounds, and safe in foal. Public sale of 40 head, March 2, 1910. Watch for announcement.

LAKESIDE FARM
Len H. Lamar, Storm Lake, Iowa.

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON,
BATAVIA, IOWA.

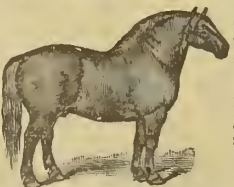


Percheron and Belgian STALLIONS and Mares

Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot, 1/2 mile north of C. M. & St. P. R. R. depot. E. H. Knickerbocker & Son, - Fairfax, Iowa.

Large Heavy Boned Mammoth Jacks

FOR SALE: from 15 to 16 hands high, for \$350 and upwards. Farm located 8 miles west of Cedar Rapids.
JOHN HENRY FAIRFAX - IOWA



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch, and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$650 each.
A. Latimer Wilson, Creston, Iowa.



FOR sale—A Morgan stud colt, coming three years old; color bay; a fine individual and priced reasonable. Come or write F. Bowman, Eldora, Iowa.

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. 1/2 ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

Dunham's Percherons

46 splendid stallions and mares arrived Feb. 9th. These, added to our present stock, afford intending purchasers the finest selection in America. If you want the best horses—horses with bone, quality, action and best breeding; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit Oaklawn. Renowned for nearly 50 years as the best. Catalog shows the place and the horses.

W. S., J. B. & B. Dunham, Wayne, Ill.

DO YOU WANT FRONT ROW?

WE are representing Jack Breeders' Association. They are guaranteed in every way; 14 to 16 hands high, 3 to 7 years old; black, with white points. We represent 100 jacks of the best. Can save you \$300 to \$500 buying from breeders direct.

C. L. MOORE, Bowling Green, Missouri.



Percherons and Belgians

I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.

FAIRVIEW JACK AND JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14 1/2 to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop., EOLIA, MO. Pike Co.



PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Run (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.

Percherons for Sale

Fifty head of imported and home-bred mares, two to six years old, bred to the best sires. Ten head of stallions, one to three years old. They are the right kind and priced right. Come and see and you will buy.

WELCH & PECK, LEXINGTON, ILL.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address GEORGE W. BILBO, CRESTON, IOWA.

Reserved Champions

PERCHERONS AND BELGIANS



2 IMPORTATIONS, 1909, 2

DO you want a first-class stallion or mare? Sound, big bone, size, wide back, true action. PRICES LOWEST. TERMS MOST LIBERAL—GUARANTEE GENUINE. Come and see for yourself GOODS that are a pleasure to show. Trains nearly every hour any direction. Interurban from Davenport, Iowa. Stables in town. For further information, write us.

CHAMPLIN BROS., CLINTON, IA.

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. W. L. DeCLOW, Cedar Rapids, Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.



SHIRE STALLION FOR SALE

WILLIAMS' Moulton Temple 10363, two years old; chestnut sorrel; sound. Price, \$1,200. He was good enough to win three blue ribbons at the Iowa State Fair, two blue ribbons at the Illinois State Fair and three blue ribbons, two silver cups and a championship at the International.

C. C. WILLIAMS, BUSHNELL, ILLINOIS.

HORSES

PERCHERONS, Belgians, German Coaches AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

CHESNUT STUD FARM PERCHERON STALLIONS AND MARES

TEN head of stallions and mares for sale, ranging from 2 to 5 years of age. Home-bred horses, \$500 to \$1,000. Write, or come and see me. Address

L. C. BARNETT, INDIANOLA, IOWA.

Jacks and Stallions AT QUIET GLENN

ONE or a car load of big black jacks, the kind you want and that will do your country good; no small ones among them. Choice of three good young Percheron stallions. Come at once; write for catalog.

G. M. SCOTT, REA, MO.

HART BROS.
IF YOU WANT TO BUY A GOOD
STALLION OR MARE
with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.

PERCHERON MARES
BELGIAN MARES
Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.
C. G. GOOD, OGDEN, IOWA.

Percheron and Clydesdale STALLIONS
I have a splendid lot of three-year-old black Percheron and Clydesdale stallions that are strictly first class and I am making bed-rock prices on them. Address
R. O. MILLER, LUCAS, IA.

FOR SALE AT A BARGAIN
IMPORTED Shire stallion eight years old; fine style; a good performer and a sure foal getter; weight about 1,900 lbs. Must sell. Write
W. H. Hazlet, Secretary, Leon, Iowa.

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. Ben Bohlander, R. 2, El Paso, Ill.

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

Shetland Ponies The cream of Scotland; any kind you want; we sell them reasonable. **CLARKE BROS.,** Auburn, Neb.

BERKSHIRE SWINE.
PRINE FARM BERKSHIRES
Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address
George S. Prine, Oskaloosa, Iowa.

BERKSHIRE BRED SOWS
A FEW extra choice yearling sows, sired by Artful Majestic, and bred to Merger's Star 10th, for Mar. and Apr. farrow. Write, or come and make your own selection. C. S. Buckley, Holstein, Ida Co., Iowa.

Choice Berkshires For Sale
LUSTRE'S Combination J, second-prize boar Iowa State Fair, and gilts sired by him, open or bred; also two tried brood sows at reasonable prices. **ORLANDO JACOBS, MEDIAPOLIS, IOWA.**

When writing to advertisers please mention this paper.

HORSES.

LA FAYETTE STOCK FARM

SPECIAL NOTICE

WE call your attention to our first importation for 1910. **FIFTY HEAD** of stallions and mares just received in fine condition and ready for sale; big-bone drafters with lots of quality and weight. We can show over 200 **HEAD** of Percheron, Belgian, Shire, German Coach and Hackney stallions and mares, a great lot of horses, prize winners in Europe and America.

Come to our farm and let us show you more high-class horses with quality and at **LOWER PRICES** than can be bought any other place. Best guarantee, good insurance and square treatment. Come early while you can get a big selection.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.

HOMewood STOCK FARM

IMPORTERS AND BREEDERS OF—

Percheron, Belgian and Shire
STALLIONS AND MARES

SIXTY head of stallions arrived August 10th. 40 head of Percheron mares arrived on Nov. 5th. We also have a choice selection of American-bred Percheron mares, fillies and stud colts. If in the market for a first-class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. **Our Motto: Prices right, terms to suit, satisfaction guaranteed.** No misrepresentation or disappointment on arrival. Write our home bank for reference. Homewood is on the main line Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly from the city. Bell 'phone Homewood 201.

Don't fail to see our exhibit of 60 head at the coming International.

S. METZ & SONS, HOMEWOOD, ILLINOIS.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

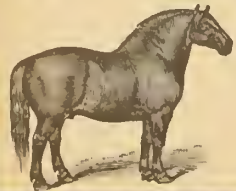
Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

REGISTERED STALLIONS AND MARES
PERCHERONS—BELGIANS—SHIRES

WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - NEBRASKA.**

100 RHEA BROS.' 100
ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

OUR LAST IMPORTATION OF
IMPORTED PERCHERON Stallions and Mares
LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



Shires, Clydes, Belgians, German Coachers

OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing these where every farmer can buy. Come and see us. Address **Laben Harrison & Son, Prescott, Iowa**

HORSES.

FRANK IAMS'

new importation of draft stallions and mares arrived September 20, 1909, by "Iams' own special train" of "ten express cars." They are "business propositions," that "jar the cherries" on a "wide-awake" "horseman's hat." Iams' "Peaches and Cream" stallions and mares are "eye-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. Iams makes buyers

"SIT UP AND TAKE NOTICE"

"Ikey Boys" get into Iams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 27 years' successful business. He bought and sells better horses cheaper than ever. Mamma, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at Iams'. Iams has

200=PERCHERONS AND BELGIANS=200



two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "toppers" at \$1,000 and \$1,400 (few higher), mares \$700 to \$1,000, so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000 SAVED AT IAMS' \$1,000

Ikey, what "a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no stallion salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams' competitors "holler." He is knocking "high prices" out of the Xmas tree. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His \$1,200 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by one-half million dollars.

Write for Million Dollar Horse Catalog, Greatest on Earth
REFERENCES—ST. PAUL STATE BANK AND CITIZENS' NATIONAL BANK,
ST. PAUL, NEBRASKA.

PINE RIDGE PERCHERONS

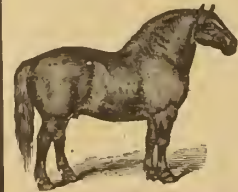


ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST
Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.**

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS



WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

FORD & HARRINGTON, PARKER, SOUTH DAKOTA, FAIRBURY, ILLINOIS.



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see **OUR** Percherons before buying. Telephone service. Their 1909 importation arrived November 15th. Ernest L. Humbert & Son, Corning, Ia.

Percheron and Belgian
STALLIONS AND MARES

OUR third importation arrived January 13th; all with quality, size and action. Stallions from \$500 to \$1,000, a few show horses a little higher. Best mares \$650 in foal. I can save you from 20 to 1,000 per cent on imported horses the way business is done in this country. Every horse is sold with a reliable pedigree and guarantee. Seward is 29 miles west of Lincoln, Neb.

JOSEPH ROUSSELLE & SON - SEWARD, NEBRASKA



HORSES AND JACKS.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

1910 IMPORTATIONS ARRIVED JANUARY 25TH AND FEBRUARY 20TH.

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in THE WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.

IF YOU WANT TO BUY A STALLION

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any banker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. for the asking. Address BOX 68.

Belgians and Percherons

Second importation for 1909, sixty head, arrived August 10th; third importation, thirty head, December 8th

120 STALLIONS AND MARES

Upon my farms; my four barns full. Eight miles west of Cedar Rapids; two railroads; electric car every hour.

SEND FOR NEW CATALOG

HENRY LEFEBURE, FAIRFAX, IOWA.



M. L. AYRES, SHENANDOAH, IOWA

Thirty Years a Breeder and Importer of

PERCHERON HORSES

A FINE selection of young two and three-year-old home-bred stallions for sale. The noted Brilliant bred stallion, BLANDIS 36577, at head of stud. Anyone looking for a herd heading stallion will do well to patronize me. For bone, size and quality our stallions are unsurpassed. 125 to 150 head of horses on the place all the time. Come and see them or write for full particulars, mentioning The Homestead.

SPECIAL PRICES FOR FORTY DAYS

50---IMPORTED STALLIONS AND MARES---50

To make room for an early importation I will make special prices on a stable full of high-class Shire stallions. The weighty sort, 1,800 to 2,050, three and four years, best of legs and feet; no woolly legsonor flabby fat. Write me for particulars. **GEO. E. BROWN, Aurora, Ill.**

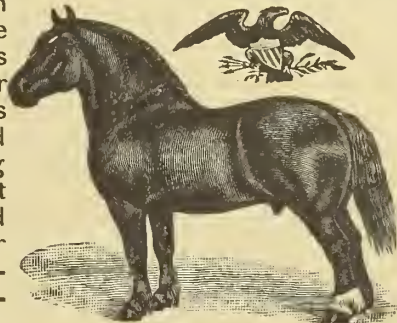
THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October, one in November, another shipment arrived about the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.

A. B. HOLBERT, Greeley, Ia.



IMPORTED PERCHERON MARES

Bred to Carnot 66666, International Champion of 1909.

Imported PERCHERON STALLIONS

2-Year-Olds; 3, 4 and 5-Year-Olds; Blacks and Grays.

If you want horses with lots of bone, quality, style and action I can please you. My January importation is now in my barns. I would like for you to see the mares bred to and heavy in foal to Carnot. Get my prices before buying. Only one yearling stallion of my entire importation is reserved. Come and see my 1910 importation.

S. J. MILLER, Kirksville, Missouri.



New Importation of Percheron, Shire and Belgian Stallions

EXTR weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. **PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.**

When Writing to Advertisers Please Mention This Paper

Investigate the Construction and Work of Avery Undermounted Engines

**The Only Engine
of Its Kind
on the Market**

**Built Like a
Railroad
Locomotive**

Did you know that although all railroad locomotives are now built of the Undermounted Design, that they were at first built Topmounted? That is, with the Cylinders mounted on Top of the Boiler and all other working parts bolted to it? Now, ask yourself this question: Is there not as much reason why a Traction Engine, which is to be used for Pulling, should be Undermounted as that a Railroad Locomotive, which is to be used for Pulling, should be Undermounted? The same principles apply in the construction of one as in the other. There is the same reason for relieving the Boiler of Pulling Strains in order to secure Greater Durability. There is the same reason for Mounting the Cylinders Low Down in order to secure Increased Pulling Power.

Because of these reasons the Avery Company decided to build an Undermounted Traction Engine as shown above. These Engines have been on the market for seven years. Hundreds have been sold and are in successful operation. The test of Actual Use, as well as the best principles of Engine Building, strongly prove the superiority of the Undermounted over the Topmounted Construction.

When you buy an Avery Undermounted Engine you get these four things:

First—You get an Engine with a Design Unequalled by any other for General Traction and Belt Work.

Second—You get an Engine costing less than one-half that of any other method of producing power, considering the horse power you get.

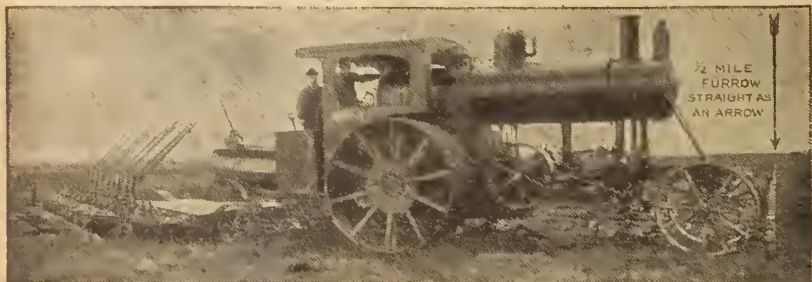
Third—You get Working Capacity proven by test to be twice that of any other method.

Fourth—You get an Engine costing much less for repairs and up-keep than any other, and this cannot be successfully disputed.

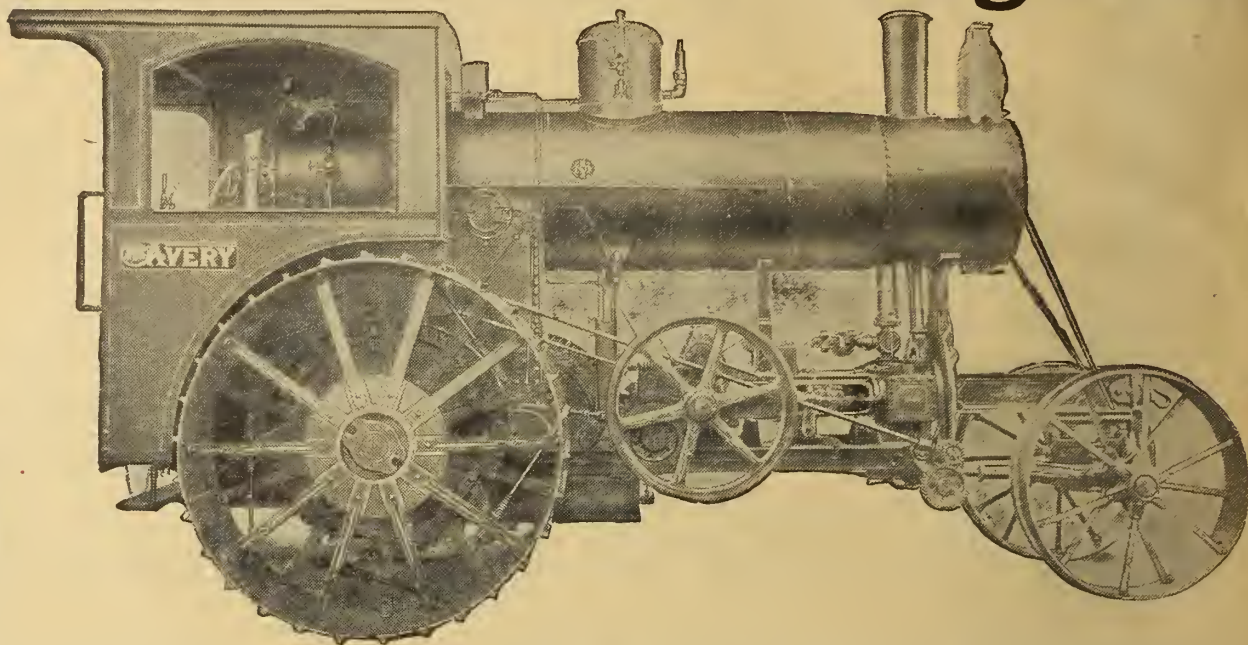


Gold Medal won by Avery 30-H. P. Undermounted Engine at the Brandon, Canada, Motor Contest. Sweepstakes Medal won by Avery 30-H. P. Undermounted Engine at the Brandon, Can., Motor Contest. Silver Medal won by Avery 20-H. P. Undermounted Engine at the Brandon, Canada, Motor Contest. Bronze Medal won by Avery 30-H. P. Undermounted Engine at the Winnipeg, Canada, Motor Contest.

In Competitive Contests the Avery Undermounted Engine has also proven its superiority. This engine was entered in the Motor Contests last July at Winnipeg and Brandon. These were the greatest contests of their kind ever held on this Continent. Every Avery Engine entered won a medal, the 30-H. P. Undermounted Engine winning both the Gold Medal (first prize) and the Sweepstakes Medal, as well, in the Brandon Contest.

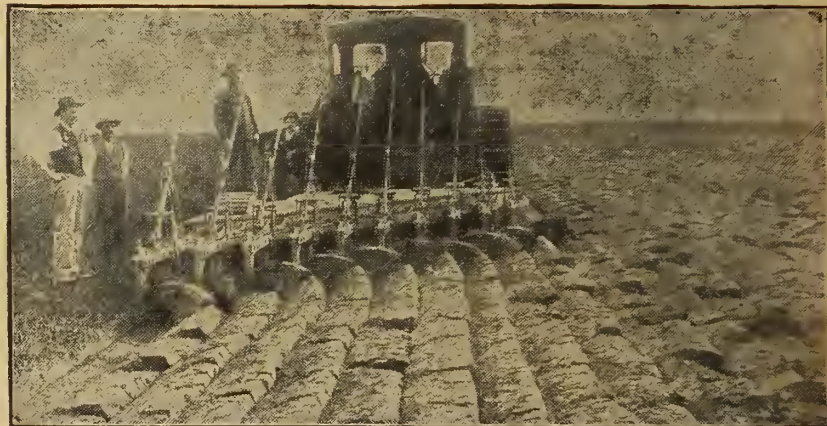


The Avery 30-H. P. Undermounted Engine and Cockshutt-Avery Plow also made the only Perfect Plowing Score at Winnipeg. The above illustration shows the outfit just after finishing the Plowing Test. Other manufacturers used the same plow attachment but it took the Undermounted Engine, coupled to this plow, to make a Perfect Plowing Score.



Avery Undermounted Engines are built in Five Sizes with Nominal Rated Horse Power of 18, 20, 22, 30 and 40-horse. The Actual Brake Horse Power is more than three times this amount.

Wood, Coal, Straw or CRUDE OIL can be used for Fuel.



In PLOWING, an Avery Undermounted Engine and Cockshutt-Avery Plow will turn the ground over at a less cost per acre, everything considered, than any other method, and we are prepared to establish this fact. The Cockshutt-Avery Plow Attachment is furnished in five sizes—5, 6, 8, 10 and 12 Gang, with Interchangeable Stubble or Breaker Bottoms. This plow has successfully met the toughest conditions in plowing.

For HAULING Purposes an Avery Undermounted Engine has shown itself able to reduce the cost of hauling by a large per cent. We also build a number of different styles of Special Traction Hauling Cars for use with this Engine.

As a THRESHING Engine the Avery Undermounted Engine also has many advantages and, with our "Yellow Fellow" Separator, makes a Superior Threshing Outfit.

You should not place your order for an engine until you investigate the Undermounted Avery. Our new catalog, with illustrations of all sizes and complete detailed description, is ready for mailing. Get our catalog and learn more about the construction and work of Avery Undermounted Engines. Send a postal or a letter, at once, for our Free, 64-Page Engine, Thresher and Steam Plow Catalog or use the coupon below.

Avery Company, 169 Iowa St., Peoria, Illinois

(Check below to indicate machinery interested in)

Avery Company, 169 Iowa Street, Peoria, Illinois

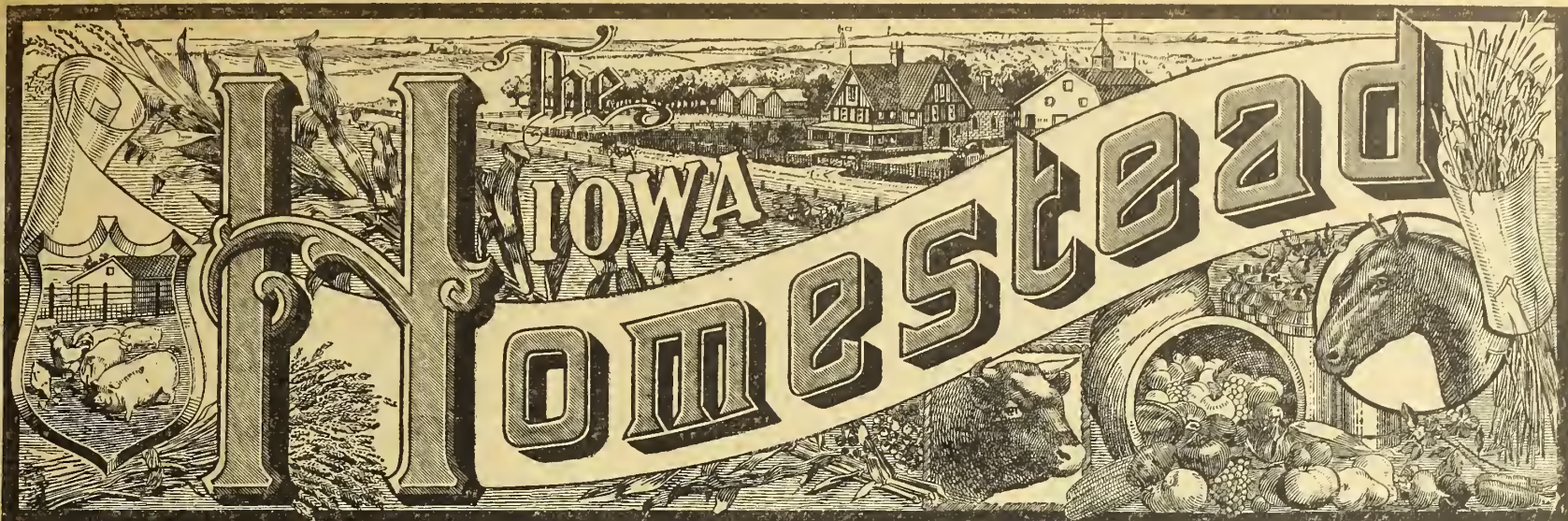
Please send me your 64-page, Free Catalog of Engines, Threshers and Steam Plows. I am interested in—

The Avery Undermounted Engine for	<input type="checkbox"/> Plowing <input type="checkbox"/> Road Building <input type="checkbox"/> General Hauling <input type="checkbox"/> Threshing <input type="checkbox"/> Sawing <input type="checkbox"/> General Belt Work	Cockshutt-Avery Plow	<input type="checkbox"/> 5 Gang <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> 10 <input type="checkbox"/> 12	Avery "Yellow Fellow" Separator	<input type="checkbox"/> X Fill in Approximate Size
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Name.....

Address.....

R. F. D. State.....



VOL. LV. NO. 9

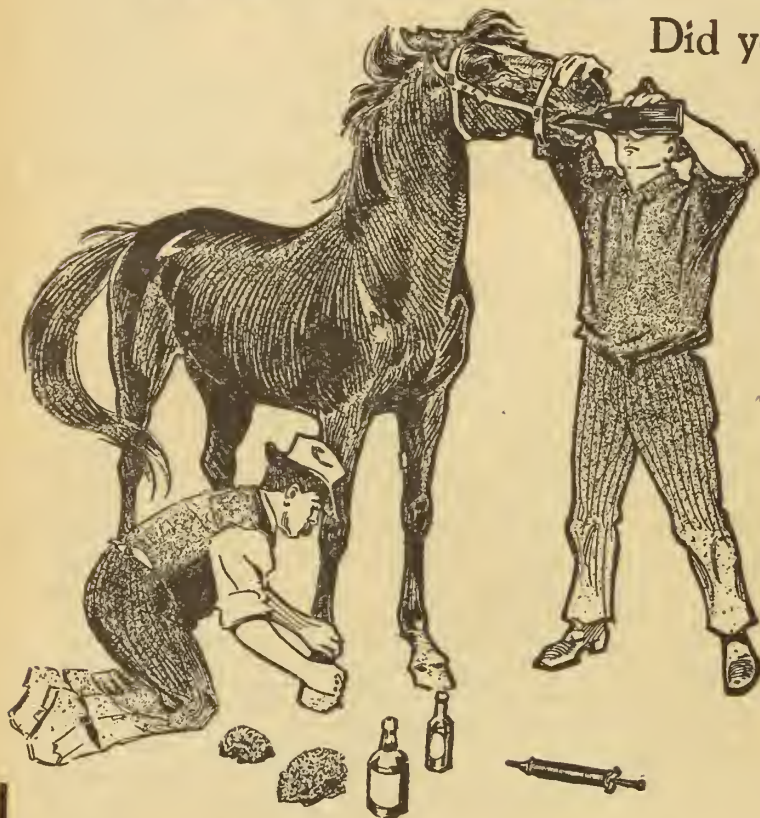
DES MOINES, IOWA, MARCH 3, 1910

WHOLE NO. 2734



LIQUID REFRESHMENTS

Beware the Tricks of Crooked Horse Dealers



Did you ever find a lemon in a horse's nose? How and why did it get there?

What was the meaning of the ears being tied together with a fine silken thread?

Perhaps you are half persuaded to buy a horse because you like his "ginger"? Are you sure it is health and high spirits, or is it ginger---commercial ginger?

Are you sure you could tell the age of a horse by its teeth? Or would your experience be like that other man's, who paid \$3500 for a 17-year-old horse, thinking he was buying a 7-year-old? The horse had been Bis-hoped.

Horse buying and trading offer hundreds of opportunities and temptations to use trickery and sharp practice. There is only one way to meet it.

**Doped and Doctored Horses are sold Every Day.
Be on Your Guard!**

"Horse Secrets" Will Protect You

—make you horse-wise and crook-proof, and save you from being cheated by dopes or tricks when buying, selling or trading. It exposes and makes you acquainted with the tricks, dark and devious ways, and crooked methods of gyps and a certain class of unscrupulous dealers. Many of the secrets of this book are now made public for the first time. No such collection of Horse Trading, Horse Buying, Horse Training and Horse Feeding information has ever before been published. It is impossible even in this large space to give a complete list of the secrets in this sensational and instructive book. Some of the topics of greatest importance are:

Secrets of Hiding Blemishes

Shutting a "heaver."
Plugging a "roarer."
Turpentine and Gasoline tricks.
Unnerving and Cocaine tricks.
Hiding a spavin.
Side Bones.
Concealing sinuses.
"An eye for an eye."
Examining the ears.

Secret Ways of Changing Appearance of a Horse

The tail trick. Making a star.
Making black spots.
Curing the broken crest.
False measuring.

Buying Tricks

Diamond cut diamond.
Making a horse act mean.

Selling Tricks

The "widow" trick.
Landing a sucker.
The winter board trick.

Secrets of Stopping Vicious Habits

Stopping a switcher.
Wedging a cribber.

Secrets of Hiding Age

"Bishoping."
Blowing Air under the skin.

Tricky Sayings

An honest horse dealer.
A horse that was right there.
A sharper's smooth sayings.

Secret Ways of Inducing Action

Gingering.
Getting high knee action.
Keeping horse in the air.
Loose shoe trick.
Galloping past dodge.
Keeping horse on edge.

"Horse Secrets" has been prepared by Dr. A. S. Alexander, the famous veterinarian, who has had upwards of 25 years' experience in Horse-Breeding and Veterinary Science. He is the author of the first stallion service regulation and inspection regulation adopted and enforced in America. He is Professor of Veterinary Science at the University of Wisconsin. There is no more competent authority on horses anywhere.

How to Secure "Horse Secrets"

"Horse Secrets" is not sold separately. It may be obtained only in connection with the following offer:

"Horse Secrets" and subscription to FARM JOURNAL for two years BOTH FOR 50c

Homestead readers who have already subscribed for the FARM JOURNAL may, however, have the book and paper sent to different addresses.

CUT OUT THIS COUPON AND MAIL IT TO US TODAY

FARM JOURNAL, 1023 Race Street, Philadelphia, Pa.

Gentlemen:—Enclosed find fifty cents for a copy of "Horse Secrets" and subscription to Farm Journal for two years beginning January.

Name R. F. D.

P. O. State

FARM JOURNAL—"Unlike any other Paper." You Will Like It.

FARM JOURNAL is the paper taken by nearly every busy, thrifty farmer, the man who wants to know for sure about agriculture. They value it so highly that it is kept year after year and is continually read and referred to. It is a departmental paper with a convenient arrangement for the reader to find what he wants, and it is what he wants when he finds it.

The Farm, the Home, Horses, Swine, Sheep, the Cow and Dairy, Bees, Poultry, Fruit and Garden occupy their proportionate share in every issue. Then there are the less technical and material pages devoted to matters of the home—fashions, housekeeping, recipes, and bright, fresh reading for the younger members of the family.

FARM JOURNAL is a farm paper, but it is far more than this. It is for everybody outside a big city flat; it is equally at home in town, village suburbs, or on the rural routes. It is for "humans," not fat hogs; fat hogs are all right, but they do not come first. Every reader of The Homestead will enjoy and learn to love the FARM JOURNAL as do its nearly 700,000 present subscribers, scattered all over the United States.

FARM JOURNAL need never be carried out of the house with the tongs. The advertising columns receive the most careful scrutiny of our editorial department and the bars are up all the time against medical, deceptive, suggestive or nasty advertising of any kind whatever.

FARM JOURNAL is thirty-three years old, and has grown to be the leading farm and home paper of the world. Its score of editors are men and women who write "with their sleeves rolled up." They know what they are talking about, and can quit when they are through—a rare virtue. FARM JOURNAL is cream—not skim milk.

FARM JOURNAL, 1023 Race St., Philadelphia, Pa.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MARCH 3, 1910.

Blood Counts in Cattle Raising

SOMEONE has said men are losing interest in pure-bred cattle. A few sales have been made where the average ran altogether too low considering the merit of the offering, and it has caused alarm in certain quarters. Possibly the meat boycott scare has been partly responsible for the situation. While the temporary effect of the boycott has disappeared, the ultimate result of it will be far-reaching. Our own faith in the future prospects of the man who raises beef cattle is as big as it has ever been in the past, because cattle raising in the corn belt is fundamental in any sound system of agriculture. Of course we need good cattle for the feed lots, but the supply can only be kept up when the pure-bred retains its popularity, because from that source the improvers of the breed must come.

An article that recently appeared in this paper from the pen of Mr. B. O. Cowan, assistant secretary of the American Short-horn Breeders' Association, has resulted in the receipt of a communication from a well-known breeder of pure-bred cattle, Mr. Warren Gammon, of Polk county, Iowa. What Mr. Gammon has to say will interest those of our readers who are engaged in cattle-feeding operations, as well as those who are raising pure-bred foundation stock. We quote:

"I read with much interest an article in a recent issue of your paper by Mr. Cowan on 'Outlook for Beef Production.' I think that article should be carefully studied by every farmer and breeder of cattle in the country. There are a few additional facts that I desire to call your readers' attention to.

"First, the most discouraging feature of the cattle business in this country today is the disposition on the part of the farmer to force prices down upon pure-bred cattle. If a man will carefully study the Hereford herd book in this country he will be surprised to see that more than ninety out of every hundred men who were engaged in raising pure-bred Hereford cattle eight years ago have been driven out of business by low prices. A very large number of the Hereford cattle breeders within the last three years have been shipping their splendid young heifers that were carrying in their veins the richest blood in America, to the market for beef, simply because the farmers and stockmen would not pay even beef prices for them. But we think that some of the farmers have recently been learning through their pocketbooks and their bank accounts that scrub cattle cannot be raised at a profit on high-priced land and high-priced feed, for they are now beginning to pay a little better prices and are buying better cattle.

"There is no way in which a breed of cattle can be so effectively and completely ruined as by forcing the price down so low that the

breeder cannot afford to use good blood, good feed, care and environment.

"A breed of cattle is just what the breeders make them. It costs to produce good breeding stock. A period of good prices always improves a breed of cattle and a period of low prices always injures a breed of cattle. When the people learn that beef can be produced more cheaply by the use of good blood than by the use of the poverty-producing scrub, then and not until then will we have made great progress in the production of good beef at fair prices.

"Every thoughtful man knows that whenever a man becomes a breeder of pure-bred stock he becomes a public benefactor and that he materially adds to the wealth-producing power of his state and nation. Therefore, every farmer and breeder should be careful to use good animals for foundation breeding stock.

"I have two friends who are farmers and stock raisers. One of them raised during the season of 1909 a bunch of dual-purpose or no-purpose calves. He held a public sale in October and sold them at an average of \$9.75 a head. The other man has been using recorded bulls for many years and he sold his calf crop of forty head to go into the feed lot at \$30 per head. Now there was a difference of \$20.25 per head on the forty head which made \$810. Now the man that uses poor machinery, poor seed corn or inferior breeding stock is cheating himself. There is a marked difference between a good beef animal and a dual-purpose or no-purpose animal. The one, if properly handled, will make the owner a banker; the other, if properly handled, or if handled with ever so much skill and energy will make the owner a bankrupt. Let me call your readers' attention to a few facts in support of this statement. For some years prior to 1890, Iowa had been using a limited number of pure-bred or special-purpose bulls and the census of 1890

as made by the government fixed the value of all the cattle in Iowa at \$21.08 per head. Of course more or less of these cattle had a fraction of pure blood in them. At that time Arkansas had been using little or no pure-bred bulls and the same authority fixed the value of all the cattle in that state at \$11.58 per head. Now during the next seventeen years Iowa increased the use of pure blood by using more pure-bred bulls, and on January 1, 1907, the value of all the cattle in Iowa was found to be \$25.39 per head, while the value of all the cattle in Arkansas was found to be \$10.98 per head. There was \$14.41 difference in the value of the cattle in the two states and on the 5,515,300 head owned in Iowa at that time, there was a difference of \$79,475,473. Now this only applied to the cattle on hand in January, 1907, and did not apply to the many millions of cattle that had been sold during the thirty years or forty years prior to January, 1907.

"Any experienced breeder or feeder will tell us that if the owners of all the cattle in Arkansas were to ship all of their cattle to the feeders in the corn belt and give those cattle to the feeders upon the condition that the feeder feed them ninety days, they could not afford to take them as a gift. Let us hope that the readers of your paper may give this subject some thought."

The figures used by Mr. Gammon carry with them a forceful lesson and as we see it the day has actually arrived when the farmers of the corn belt cannot afford to raise the old-fashioned kind of cattle. At present writing a steer twenty-four months old, sired by a good, thick, blocky, pure-bred animal of any of the beef breeds, would be worth anywhere from \$75 to \$100 if he has been well handled, while under the best of care a steer without beefing qualities at this age would only be a butcher animal, worth possibly \$50. To produce the former class of steers in sufficient

numbers to satisfy the feeders of the great central West, means that we must increase the number of our pure-bred herds in order that the man who raises grades may be forced to believe that as a business proposition he cannot afford to use anything but pure-bred males in his grade herd. We believe that the day is near at hand when farmers, with one accord, will change their attitude toward the pure-bred male and when that time comes the wisdom of those who have maintained the quality and kept up the blood lines of their herd will be justified in a business way. It would not be surprising if within a ten-year period the demand for males to use on the grade herds of the corn belt should double, and even double the second time. Because of that we commend the courage of those who are picking up a few pure-bred cows in the hope of starting a herd. Pure-



THE NOTED PRIZE-WINNING, IMPORTED PERCHERON STALLION, MARATHON, OWNED BY MR. C. O. KEISER, KEOTA, IOWA. SEE ADVERTISEMENT ON PAGE 62.

(Concluded on page 6.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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CATTLE FACTS AND FIGURES.

The cattle of the United States, on the first day of January, 1910, had a total value of \$1,697,761,000. This is an increase of \$131,062,000, over the figure for the same date in 1909.

It is a curious circumstance that although this immense growth in value has taken place, the number of cattle decreased, during the same period, 2,019,000 head. The cattle of the country are enumerated in two classes, under the heads of "milk cows" and "other cattle."

The number of milk cows is given at 21,801,000, being 81,000 more than in the previous year. There has been a steady increase in the value of milk cows per head, which is an indication of the greater interest taken in the dairy industry in more recent years. In 1910 a milk cow was said to be worth \$35.79, while in 1909 the price was \$32.36, and in 1908, \$30.67. An observation of the lively competition for milk cows at farm sales leads to a belief that the figures for 1910 are at least low enough. The total valuation of milk cows is placed at \$780,308,000.

In the class of other cattle there is a somewhat different condition of affairs. These cattle numbered, January 1, last, 47,279,000 head, or 2,100,000 head less than one year before. The price per head for these cattle has shown a much smaller percentage of increase than has been the case in the milk cows. In 1910 the value per head was \$19.41. In 1909 it was \$17.46, and in 1908 \$16.09. The total valuation of these cattle is given at \$917,453,000.

The cattle of the world are estimated at 430,000,000. This is a mere guess, however, as facts are unobtainable in many countries, while in others the information is as much as ten years old. British India leads in the production of cattle with 91,000,000 head. The United States stands second with reference to numbers, which exceed the combined production of the United Kingdom, France, Germany and Austria Hungary.

Turning again to milk cows of the United States we find that but seven states have to exceed one million head each. New York heads the list with 1,771,000, Iowa follows with 1,570,000, Wisconsin 1,506,000, Pennsylvania 1,140,000, Illinois 1,232,000, Texas 1,137,000, and Minnesota 1,125,000. The smallest number, 19,000, is found in Nevada. The highest valuation per head is in New Jersey where the figures are \$47.50. The low extreme of valuation is found in Arkansas, where a cow is supposed to be worth \$22. In the matter of total valuation of milk cows of New York has \$69,954,000 an amount which is nearly 25 per cent greater than in any other state. Iowa has \$56,520,000; Wisconsin \$55,120,000; Illinois \$52,730,000; Ohio \$40,532,000; Minnesota \$37,125,000; Missouri \$31,190,000; Nebraska \$30,765,000; Kansas \$27,195,000.

In the class devoted to other cattle Texas comes to the front with 7,131,000 head, valued at \$109,104,000. Of the other range states the greatest valuation is Colorado with some \$32,775,000 worth. In the agricultural states the figures are as follows: Iowa 3,611,000 head, valued at \$80,

164,000; Kansas 3,260,000 head, valued at \$77,262,000; Nebraska 3,040,000 head valued at \$66,576,000; Missouri 2,165,000 head, valued at \$48,929,000; Illinois 1,947,000 head, valued at \$52,114,000. The highest valuation per head is in Illinois where the price is \$26.40, the lowest is in Mississippi where cattle are valued at \$8.40 per head.

HOW GOOD MACHINERY SAVES LABOR.

An interesting phase of the farm machinery problem is discussed by Mr. David Rankin, of Tarkio, Mo., who has the distinction of being the largest corn grower in the world. Last year his corn acreage was upwards of 18,000 acres. Mr. Rankin has written a brief history of his life which includes an outline of all his farming operations since he started out for himself sixty-four years ago, and among other topics taken up he gives some attention to farm implements. He has this to say regarding the use of labor-saving implements:

A gentleman once asked me how much money I had paid for agricultural implements. Of course I couldn't tell, and I don't believe I could figure out

side of any subject, he undertakes to discuss, and his analysis of the farm implement question is interesting indeed. After all, when one considers how short the season is for doing any particular kind of work, it must be conceded that the man who works with old-fashioned tools or machinery is most seriously handicapped. This is true on the small as well as on the large farm. To reduce the cost of raising farm products to the lowest point in these days, means first, that the operator himself must be a hustling, up-to-date fellow, and secondly, he must have modern implements to work with.

CLEAN UP THE HOG YARDS.

Cleanliness in the environment of the hog goes a long way toward the promotion of health and thrift. Filth is a ready means for the dissemination of disease germs. Aside from those difficulties of the digestive organs, as indicated by scours or costiveness, the dangers to the health of the hogs are due almost exclusively to germ diseases. Any action which may be taken to prevent or lessen the measure of germ distribution, therefore, is a wise one. The

ing water, and keep it covered during the process. Strain and add one peck of salt dissolved in warm water; three pounds of ground rice put in boiling water and boiled to a thin paste, one-half pound of powdered Spanish whiting and one pound of clear glue dissolved in warm water. These should be well mixed, and the mixture allowed to stand for several days. This wash should be kept in a kettle or portable furnace, and when used put on as hot as possible with painters' or whitewash brushes. When the whitewash has been attended to scatter lime freely on the floor. Although whitewash is a germ killer and disinfectant its effects are merely temporary and it is not continuous in its power over later appearing germs from outside sources.

The houses having been cared for, the yards should be carefully cleaned up and every particle of manure, bedding or other accumulations removed to some cultivated fields, meadows or pastures. The yards also would be better for having a liberal supply of lime scattered over them.

One of the best means of freshening up the hog lots is to adopt the plan of every year growing some green crop. This will involve the plowing up of the lot which perhaps is the most of the benefits to be gained. We have noticed that the more successful swine breeders have adopted this plan and that in their herds attacks of disease, as well as inferior health troubles, have been reduced to the minimum. The turning over of the ground brings fresh earth to the surface and also turns under that portion which has been exposed to the filth incident to the hog yard. Oats or rye make a good crop for such lots, as they afford green feed and pasturage at a time when such crops are of material assistance to the growth of younger pigs. The question as to what crop, however, is immaterial if some crop be adopted.

We wish to urge this matter of cleaning up the hog yards as a point of personal interest to every farmer this year. The continued high valuation of hogs makes it worth while to save every pig and bring it to marketable maturity. Any carelessness about the yards endangers the profits of the season's hog raising operations.

INDICT "BEEF TRUST."

The so-called "beef trust," embracing six great packing companies and twenty-one packers, socially and industrially prominent, has been indicted by a grand jury in New Jersey, charged with conspiracy in limiting the supply of meat and poultry. The alleged offense carries with it a maximum penalty of three years in the penitentiary or a fine of \$1,000 or both. The defendants are the National Packing Company, Armour & Co., Swift & Co., Morris & Co., Hammond Packing Co., G. H. Hammond & Co. and high officials in these concerns, prominent in the list being J. Ogden Armour, Louis F. Swift and Edward Morris. The indictment charges the defendants, in effect, with cheating the public by manipulating the food supply through the medium of cold storage and alleges that they did meet and conspire "within the jurisdiction of the court, wilfully, unlawfully and feloniously devising, contriving and intending for their own unjust, immoral and unlawful profit and gain to injure, defraud, prejudice, damage, cheat, impoverish and oppress the public and thereby cornering and limiting the supply of meats and poultry for consumption by the public and the people of said city and said county, so as to produce an artificial scarcity in the supply of said meats and poultry, and to greatly, excessively and extortionately enhance and increase the cost and price thereof." It is also charged that the various leading packing houses have united to form the National Packing Company, which largely controls prices for dressed meats and poultry.

Jim Hill says there are too few people on the farms, that's why the price of food is going up. Another tells us there is a rush back to the soil, that's why the price of land is going up. We might add that there are ten consumers to one producer, that's why everything is going up.

March Creed

I believe in blows and bluster, in snow squalls and fitful weather.

I believe in breaking stalks some sharp morning. **I** believe in fanning

the seed grain, in careful cleaning of the grass seed and in testing every ear of

seed corn. **I** believe in clearing away the winter banking and setting things in

order. **I** believe in the flight of the birds---the winged harbingers of spring.

I believe in the serenity of taking mud as it comes :: :: :: :: :: :: :: ::

within many thousand dollars, the amount I have invested in agricultural implements; but I do know that, in the main, every purchase has proven profitable. You see, I figure this way, whenever I can buy an implement that will reduce the labor or perform the work better than the old-style machine, it pays me to throw the old ones away and get the new ones. I have always been the first, or among the first, to get new improved machines in the different localities where I have lived. In reality, it isn't the cost of a machine that figures much anyway. Let me prove this to you. Now, a good steel plow will turn two to three acres of sod per day, say you use it only thirty days in the year, and it lasts fifteen years, then it has turned 1,350 acres, and cost about \$13.50, which was about one cent per acre. A stalk cutter will cut ten to twelve acres of stalks per day, and do a good job of it, and while it costs about \$30, still you wouldn't try the job nowadays with a hoe. I use three and four-row stalk cutters, also stalk breakers thirty-two feet long. A self-binder will handle from twelve to fifteen acres of grain in a day, and requires an outlay of about ten to fifteen cents per acre, still how much would it require in additional labor to handle the crop? With the single shovel, a man could do a fair piece of scratching, and cover about four acres per day, while with the common single-row cultivator he can do a much better job and do eight acres, and with the modern two-row cultivator he can as easily do fourteen to sixteen acres. I am telling you this to impress you with the fact that the cost of machinery doesn't amount to anything. The two row cultivator will do better work, and cut the cost, too, by lessening the amount of labor, both men and horses.

Mr Rankin has the happy faculty of digging down to the dollars and cents

conditions of the present winter have been such that even the most careful farmer has found it difficult to prevent an unusual accumulation of manure and refuse bedding in and about the premises. As a consequence the spring breaking-up will produce conditions in most hog lots that will be both dangerous and disagreeable. The surroundings afford fine opportunity for the dissemination of disease germs. It is seldom that an attack of hog cholera can be traced to a definite source. It is a disease which is in constant existence and there is, therefore, an ever present danger of spread of the contagion. Under favorable conditions, and such as may readily exist on any farm, cholera germs may survive for a period of three or four months.

Although farm work will come in a bunch it will pay just as soon as the frost goes out to make a thorough and systematic clean-up of the hog houses and lots. No half way measures will answer. Adopt the plan of the housewife when the spring house-cleaning fever gets her in its clutches. Begin by getting everything movable out of the hog house. Clean them. Leave nothing untouched or unswept. Then whitewash so effectively that every crack and crevice will have been flooded. While any whitewash, perhaps, will answer the purpose, that which is called the government recipe is of accepted value. To make it slack one-half bushel of lime with boil-

POPULAR READING MATTER.

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DRAFT HORSE PROSPECTS.

A study of the horse statistics of the United States for a period of a quarter of a century reveals some curious facts. In 1885 the number of horses is given at 11,564,572, and the average price per head \$73.70. From that date until 1895 there was a gradual increase in numbers and a marked decline in value. From 1895 to 1900 the number fell off to 13,537,524 in the year last named. The low point in price was reached in 1897, when the value of a horse was given at \$31.57. From that date the valuation has steadily grown, until on January 1, 1910, it had reached \$108.19. The number of horses while constantly growing since 1900, has not kept pace with the price. The number at the beginning of this year was 21,040,000. It is of considerable present interest to note that while the proportionate increase of numbers since the low period has been close to 50 per cent, the increase in value per head has been but a fraction less than 350 per cent. These facts give ample basis for the belief that the supply and demand are out of balance, and, in

fact, so far out of balance that the present range of prices may reasonably be expected to continue, or even run higher.

The numbers of horses may only be increased through breeding, as the annual importations have at no time reached 10,000 head, and this including those pure-bred animals designed solely for breeding purposes. The outlook, therefore, for the farmer who makes horse raising an incident to his farming operations, is flattering indeed. The commercial conditions of our country, those that are responsible for the demand for horses, are in a course of development that can only be checked by some extraordinary and improbable business revolution. The prevailing methods of agriculture are yearly demanding a greater proportion of horse power on the farm.

And now about the productive capacity of the country. It is estimated that there are in the United States about 7,000,000 breeding mares. At a natural rate of increase, under the most favorable conditions, it must take a decade, under present conditions before a normal proportion as governed by supply and demand is reached.

Another factor involved is the supply of available good stallions. This is a serious matter, for the reason that, while the production of good horses is dependent upon the use of good sires, there appears to be a limited number of suitable ones. Import statistics indicate that something like 1,100 stallions of the draft breeds are brought to this country annually. The number of American farmers and breeding institutions who are producing pure-bred stallions with quality suited to stud service is comparatively small. It is plain, then, that the proportion of stallions to mares is entirely inadequate.

Here comes a condition which threatens a measure of danger to the interests devoted to the production of the most salable class of horses. With the price of horses high, as it is and promises to remain, and a dearth of sires of known producing value, the tendency of many farmers will be to take the chances on such a horse as may be most accessible regardless of his merits. We wish to protest against this ill-considered selection of a stallion. The poorer the mares of the farm, the greater the need for improvement, and therefore the greater need for the use of a stallion of known prepotency along lines of quality for which the markets are paying the best prices.

While the present average price of horses is quite satisfactory, it is so

far below the figures obtained for the higher level of quality as to awaken a suspicion that the other extreme must run down to an inferior sort that does well if it pays cost of production. There is a continuous demand for sires of higher perfection. As in all lines of live stock production, the process of development and improvement is a slow one, involving careful consideration and the exercise of wisdom, while the down-hill course leading to lesser profits or losses is easy.

While it is, of course, wise to use due economy in all expenditures, it will be well to think twice before economizing in the matter of stallion service fee. The saving of one or five dollars in service fees may mean the loss of twenty-five to fifty dollars in quality of the colt when selling times comes.

It is a satisfaction to the writer to note, in his travels about the country, that there has been a marked improvement in the quality of the average farm horse during the last five years.

SEEDING DOWN FOUL LAND.

A subscriber at Beaman, Iowa, sends the following communication:

I would like to see a discussion in your paper upon the question of seeding a field to clover and timothy that is very foul with cockleburrs. What crop should the clover and timothy be seeded with and what quantity of all seeds used would you sow? Do you think it would be advisable to plow shallow in the spring and then wait until one crop of burrs made its appearance so that these could be killed before seeding, or would it be better to sow the first thing in the spring? In answering these questions you may take into consideration that the burrs were all cut last July and August.

We frankly acknowledge in the outset that a more difficult question to answer than this was never formulated in the human brain, for the reason that there is some doubt about the advisability of seeding down land before destroying most of the cockleburrs. Of course it goes without saying that if a crop of small grain is grown it must be seeded early in the spring, and it is therefore impracticable to talk about plowing the land and waiting for the burrs to get a start in order to kill the first crop. One must either sow the small grain together with the timothy and clover early, or not sow at all. If the land is foul with cockleburrs, what will take place will simply be this: The nurse crop will come along in fairly good shape and the timothy and clover, if conditions are favorable, will likely make a fairly good growth before the

nurse crop is cut. After that it will be a neck-and-neck race between the timothy and clover on the one hand and the burrs on the other. The burrs in all probability will be too thick to pull by hand and if the mower is put in at the right time a severe check will be given to the clover and timothy, and should the weather turn out to be unusually dry there is some chance of having the clover at least, killed out altogether.

As to the amount of seed to use nine or ten pecks of the small grain per acre will be sufficient, while four quarts of clover and two quarts of timothy per acre ought to result in a satisfactory stand if the seed bed is reasonably well-prepared previous to sowing.

There is one condition referred to by this subscriber in his inquiry which is exceedingly favorable, because the burrs were destroyed last year and as a result of that destruction, we apprehend that most of the burrs within three or four inches of the surface have germinated and as a consequence they may not show up this year in sufficient numbers to justify the use of the mower, and in that case a little hand work in July or August may answer every purpose so that there will be nothing but clear sailing for the timothy and clover. If the burrs had gone to seed last year there would be a tremendous growth of these pests take place after the removal of the nurse crop, and, as said before, any method of destroying them might greatly injure the timothy and clover.

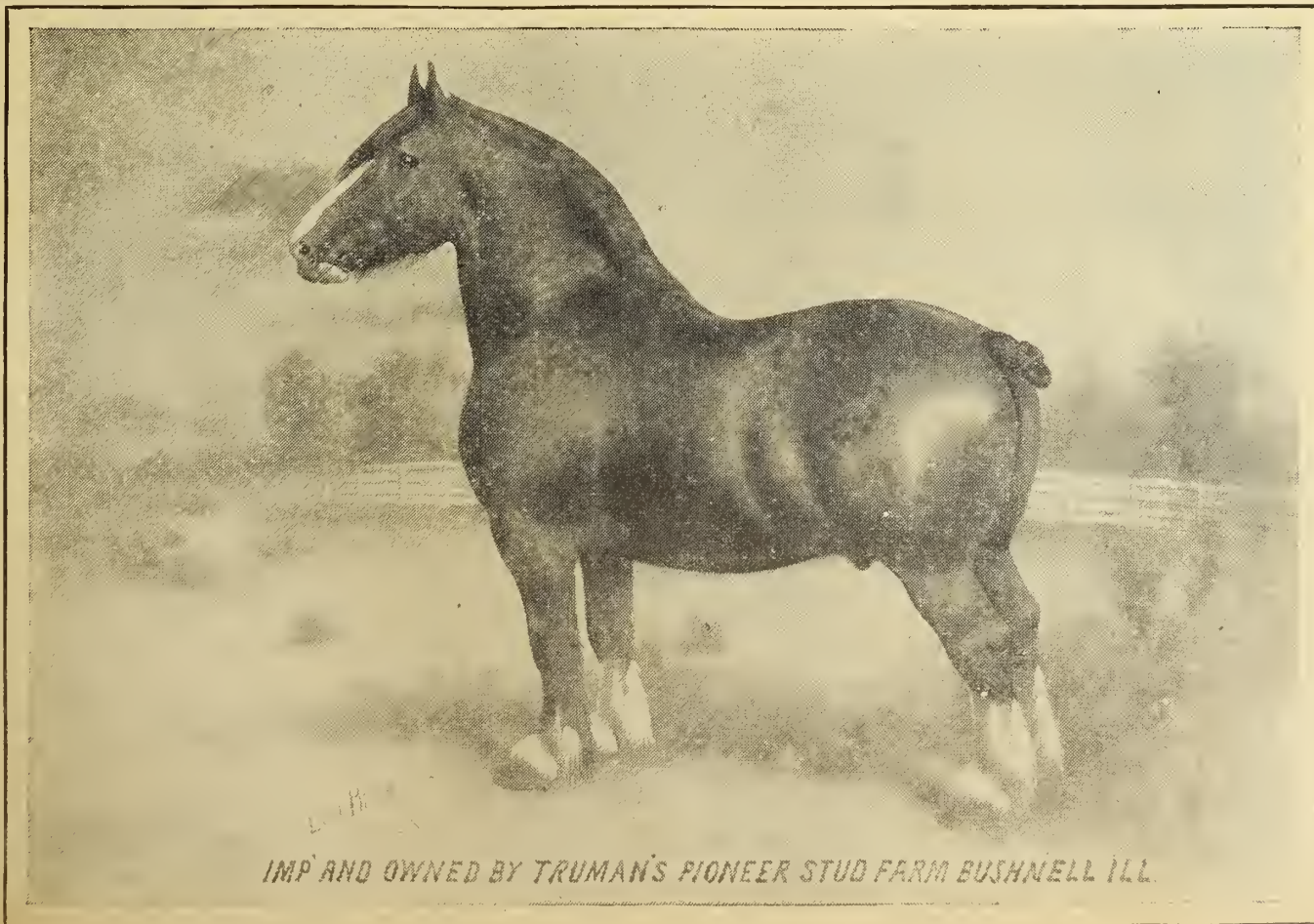
We would like to have the views of a number of our subscribers on this topic, namely, the advisability of seeding a field infested with cockleburrs, to timothy and clover.

READING TO LIVE.

A daily newspaper published a letter from a subscriber who wrote in making the request to stop his paper, saying: "I don't need a paper in my bizness any more." How badly that man needs a newspaper and how badly he needs to read and study that newspaper is apparent on the face of the letter. The point to be made, however, is this: Neither that man nor any other man who wants to succeed in this day and age can afford to be without either a newspaper or a class paper devoted to the work in which he is engaged.

A few days before the beginning of Lent, a clergyman, of the Episcopal church in New York, addressed his parishioners in this manner: "I would advise you all to do without the newspapers during the Lenten period and

to replace their scandals and masses of ill-assorted information with more edifying works." These remarks were called to the attention of the clergyman's superior in the church. He was broad minded and progressive enough to realize that the newspaper of today is not a luxury, but a necessity. He promptly said: "I certainly would not advise my parishioners not to read the newspapers during Lent. Reading newspapers is like eating; we cannot do without either. I believe such advice is ridiculous." The day has passed when newspaper reading is a bar to qualification for jury service. What the courts of justice want today are men intelligent enough to read the newspapers and to form



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opinions for themselves when in possession of the facts. Ignoramuses are no longer wanted on the jury, in the shop, in the office, in the factory or on the farm.

What is true of the newspapers which give the news of the world from day to day is infinitely more true of the papers which are devoted to printing the latest news of a specific profession, trade or employment. The day has passed when things must be done just as our forefathers did them. And in no line of work is more real, rapid progress being made than in farming. The methods which sufficed a quarter of a century ago, even a decade ago, are practically obsolete today. Thanks to the investigations of scientists, the demonstrations of practical farmers, the publishing broadcast of discoveries by station bulletin and agricultural paper and the invention of labor-saving machinery, farming methods have been practically revolutionized within the memory of nine-tenths of the farmers of today. Reading station bulletins and practical, progressive farm papers has become every bit as important as eating. There have come to be two classes of people among readers, just as among eaters: Those who read to live and those who live to read. The farmer is in the ascendancy in the former class, for he has learned that to live right, to get the most satisfaction and the most profit out of life, he must read. The farmer has become a specialist, after the fashion of the city man, and the more he specializes the more he realizes the value of what specialist-editors have to tell him.

The daily newspaper subscriber who did not need a newspaper in his "business" is a fair specimen of a type that is fast disappearing. Already he is conspicuous by his absence on the farm, where the percentage of those who take daily newspapers, practical trade papers and standard magazines is higher than in the city.

EFFECTS OF INBREEDING.

The following communication has been received from a subscriber of Hennepin county, Minn.:

Thirty years of inbreeding of cattle in my father's herd has had some disastrous effects. In order that inbreeding produce good results, it requires skill which is not possessed by the average breeder. Indiscriminate in-and-in breeding is only productive of very bad results. Many claim good results from inbreeding, but it certainly is limited to a very few who can get good results from the practice. True, there are often "freaks" resulting from inbreeding, which are especially good animals, but anyone will do better to line breed. Inbred cattle seem to require much better care than others, and if that extra care is not given, the animals rapidly deteriorate, getting rather large of bone, rough haired, horns become long, and in every way the animals show up badly. But the worst result in the beef breeds is the diminished size. After thirty years of inbreeding Short-horns, the size has diminished from one-fourth to one-third. However, the milking propensities do not seem to have been harmed. I really think animals can be bred up in that particular, but it is at the cost of size and vigor. Furthermore, any weaknesses that mated inbred animals may have in common, are generally greatly

intensified, but if the weaknesses are overshadowed by prominent characteristics which we desire perpetuated, inbreeding can be counted on to produce these results and perhaps not much harm will be done to the constitutional vigor of the animal.

When looking over any kind of stock which has become popular in some community, a marked likeness in certain characteristics is noticed. Especially is this true of horses and hogs. In a community where a good stallion is kept the results are good and when animals so bred are mated well again, the good characteristics are maintained for several generations. Also, on the other hand, when a stallion is vicious, or has defective legs, those peculiarities are nearly always transmitted, and when the offspring of such a horse are mated, the tendencies to throw side bones, spavins or other blemishes are intensified and the result is long in evidence. Hogs suffer more perhaps from inbreeding than any other kind of live stock, and sheep the least. Hogs lose quickly in constitutional vigor and become very susceptible to disease. The result is also very plain in the puny, weakened litters of little pigs.

So the fact remains that if animals that have similar defects are mated, and the progeny again inbred, the result is that the defects become intensified and are almost impossible of eradication. When animals that have no serious defects or outstanding good qualities are inbred and no care taken in selection, the offspring gradually lose in size, fineness and constitutional vigor.

Inbreeding is a subject worthy of every good breeder's attention, but should never be practiced except after a thorough study of the practice, and then only by breeders who have time and money at their disposal.

This outlines the subject in a very satisfactory manner, as applied to the average breeder of pure-bred stock. While inbreeding has played an important part in fixing the type of our various breeds of live stock, yet it is not a practice to be continued indiscriminately. It is not so much the breeders of pure-bred stock that need to have the dangers of inbreeding pointed out to them, as those who are breeding grades. It is a very common practice for men to use a pure-bred hog for example, on a grade herd, and in turn to keep a male from this breeding to be used in the herd in the future. Not only is this repeated once, but we have known instances where the practice has been carried on for several years and in every case it has resulted in the production of a weak, undersized class of hogs. It is true in poultry also, and for that reason we are in favor of the average poultry producer getting new blood in his males every year. Bear in mind that we do not give this advice to the expert, but always concede that the expert is well able to take care of himself; indeed, that class includes such a small number that we do not desire to cater to them at all, and the claim that we make is that the teaching of this paper is adapted to the average man.

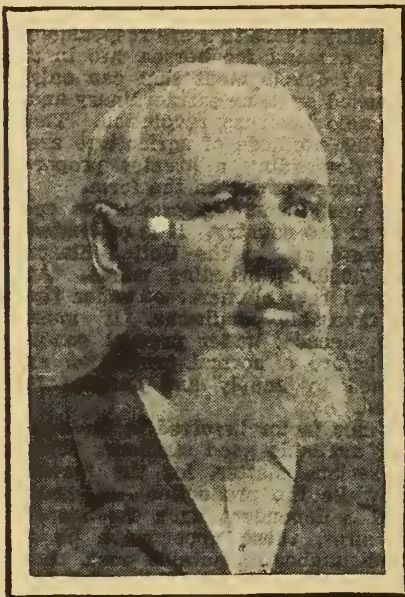
While we desire to discourage inbreeding to the greatest possible extent, on the other hand, we advocate the policy of line-breeding, which simply means the breeding together of animals that trace to a similar origin in some of the ancestors on either the side of the sire or dam. It is not, however, advisable for the average man to get closer than to breed cousins, and

even a more remote relationship is to be preferred to this one.

BLOOD COUNTS IN CATTLE RAISING.

(Continued from page 3.)

bred cattle when properly handled have always been profitable, and while at certain times they have been more profitable than at other times, yet the



WARREN GAMMON.

future looks even brighter than the past, because with hundred-dollar land we have an entirely new situation confronting us, and furthermore it is increasingly necessary to keep more live stock as the fertility supply in our soil becomes reduced.

PROBLEM OF THE UNEMPLOYED.

A minister of the gospel offers the suggestion that city benevolence is largely responsible for the existing high price of foodstuffs. He argues that the unemployed are taken such good care of in towns, when they might be working in the country, that labor becomes scarce and the price of farm products correspondingly high. He says:

The farmers have as hard a time getting help in the winter as in the summer, both men and women. Because they cannot get this help they have fewer products and the prices, necessarily, are higher. There is always work to do on the farm. But there is an army of men who go out in harvest time and get big wages for a few months, then tramp themselves penniless, and then come to the city. These find shelter in our benevolent institutions, where for a pittance and a few hours' work they can get food and comfortable quarters. Some of them will do odd jobs around the city at twenty cents an hour, few being very handy on the job. This is much pleasanter than outdoor work on the farm in the winter. So long as this system is maintained, so long we will have present conditions. Just now every unemployed man in the cities could get work, wages and a good home on some farm.

There is much truth in what he says, yet there are two phases of the subject which he does not mention.

The first is, that city methods of almsgiving have been systematized until the undeserving no longer receive much. Every case is investigated before relief is given and those who will not work are, as a rule, turned away with empty hands. The second phase is this: The city man in the soup line of charity is, as a rule, so utterly useless as a farm hand that he can hardly be considered a factor in the labor problem. The farmer is frequently obliged to hire these city men who know nothing about farming and care little or nothing for the interests of their employer. But they are, as a general thing, shiftless, incompetent and often downright dishonest, in addition to being incapable. A grain-belt farmer who is at the mercy of the labor problem asserts that when he places an advertisement in a city newspaper for a farm hand he invariably gives the one position he has to the dozen or score who apply, content that when the time arrives for the men to report for duty no more than one (if any) will show up.

It is not unchristian-like or uncharitable to look at this matter in this light; these are facts and all the suave talking will not change them. These men would starve in the city if the soup lines and bread lines did not exist. They would not starve in the country, but they would eat up food which might better go to the market and help relieve the need.

The farm wants skilled, experienced farm hands, not the riff-raff of city street and gutter.

A Missouri paper tells of a young man who was to be given a surprise party. But a horse surprised him first by kicking him and breaking his leg. The other surprise had to be postponed.

GLOBE GASOLINE ENGINES

1 1-2 to 16 H. P.

The kind that live up to their name

We want to tell you about the simple, durable, economical, powerful gasoline engine before you buy. It is designed to "stand up" under long and continuous load.

Globe engines have no weak parts and only the best of material enters into their construction.

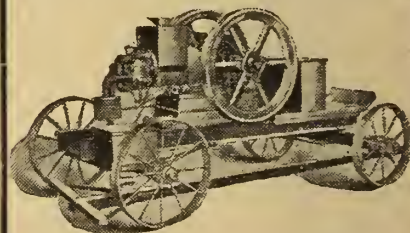


Illustration shows one of our portable types of gasoline engines.

Our catalog describes and illustrates full particulars regarding our full line of Globe stationary and portable gas engines, ensilage and silo cutters, sawing machines, horse powers, etc. May we send you a copy? It's free.

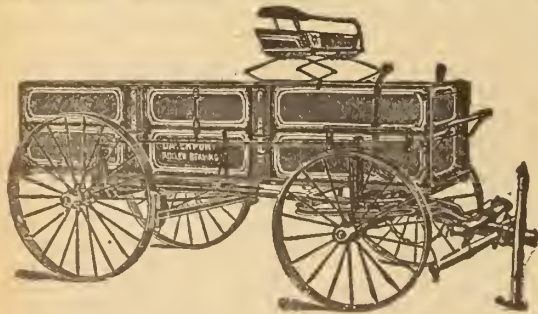
Globe Foundry & Machine Co.
Sheboygan, Wisconsin.

Do You Know a Wagon Bargain When You See It?

You can pay a certain price and get an old style wooden wagon that you and your neighbors have always used.

That will satisfy you as long as you don't know of anything better. But You can pay just about the same price, possibly a little more, and

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Buy this Davenport Wagon and you get a wagon that is practically all steel—a wagon that has double the strength and double the life of your wooden wagon. There are no break-downs, nothing to rot, dry apart or work loose. First cost is the only cost. There are no repair bills. You get the automobile hub with its perfectly protected steel roller bearings. Unlike your wooden wagon, it is impossible for sand, dust, mud or water to enter the bearings. You have the straight instead of the tapering spindle. You oil all four wheels in one half minute. You do it without removing wheels. You get the wagon that is all convenience. You get easy running. You save your horses. Two horses pull as much as three with old style wagons.

This Roller Bearing Makes 30 Per Cent to 50 Per Cent Lighter Draft

Which is the better wagon bargain from you? Would you rather have the old style wooden wagon? Or would you rather pay the same price and get the long-lived, easy-running Davenport Roller Bearing Steel Wagon? Write for Catalog C to give you particulars.

DAVENPORT WAGON CO.

Davenport, Iowa



Success of the Traveling Library



How the Best Books are Being Obtained Free of Cost on the Farm so That the Standard of Education is Being Raised and Knowledge Disseminated Throughout the Entire Land



By Alice S. Tyler, Secretary Iowa Library Commission

THE traveling library idea originated a comparatively short time ago, as a method for popular education. Those living remote from great centers, or even a few miles removed from medium-sized towns, can by means of traveling libraries have access to the best books.

New York state was the first to inaugurate a state system of traveling libraries, and as the plan became known its value was recognized and one after another other states adopted similar methods of book distribution.

About five years after the plan was so successfully inaugurated in New York state, Iowa secured the enactment of a law by which the state (reference) library was authorized to purchase books within the limit of a small appropriation, to be loaned under certain restrictions to any community in the state. Even under the meager provisions of this law, without adequate funds for properly promoting the plan, it was at once recognized as a most wise and helpful enactment.

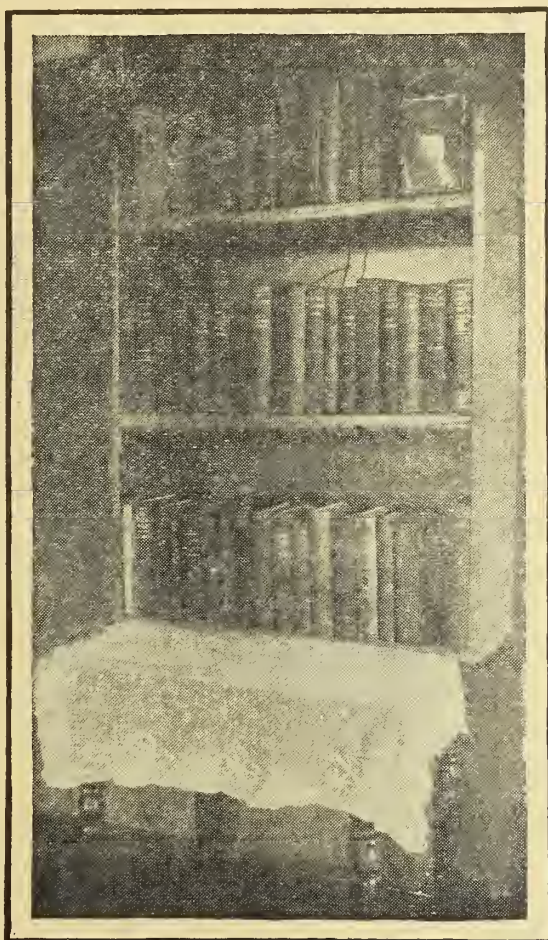
A few years thereafter, during a period when library agitation had been active in the state, a bill was passed by the 28th General Assembly creating a state library commission for the express purpose of advancing the library interests of the state by aiding in the establishment of public libraries, and the strengthening and developing of those already in existence. It was at once seen that the traveling library work would logically have a place in this project, and could be more advantageously developed by an active library extension center, such as a library commission provides for the state in which it exists. It was therefore the logical thing that the next general assembly should transfer from the state (reference) library to the new library commission the traveling library which had but made a beginning.

It is therefore from the year 1902, the date of this transfer, that we count the beginning of the active extension work of the traveling library of the state of Iowa.

What does the traveling library do? It places good books within the reach of every citizen for the same reason that the public school system is made state wide in its operations, in order that the blessings of education may become general and that the intellectual and moral side of our communities may be stimulated. The standards of Iowa citizenship may be raised still higher by providing this opportunity for gaining inspiration, information and recreation from books.

Of what does the traveling library consist? There are about 18,000 volumes in the traveling library collection available for use in all parts of the state of Iowa. These books are distributed in two ways; about half of them are made up into small libraries or groups consisting of fifty volumes, containing books of history, travel, biography, useful arts, fiction, some books for the children, and miscellaneous literature, all proportioned with a view to meet the needs of the average community. These fifty volumes are in fixed groups and are sent in response to a request for books for general reading. The other use of the traveling library is by means of the subject, or open shelf collection, by which material is supplied to suit the special needs of debating societies, farmers' clubs, study clubs or individuals; and the libraries are made up, as to size and selection of titles, to suit the needs of the organization to which they are sent.

Probably no phase of the traveling library work has proved so effective, or shown such great increase in use as this latter plan of lending books



A TRAVELING LIBRARY STANDING IN THE HOME OF A FARMER.

on subjects, and especially in connection with the present awakened interest of the farmers in agricultural subjects. The traveling library is in close touch with the agricultural extension department at Ames, and with the progressive work that is being done by the agricultural and farm journals and the selection of books for the traveling library on agricultural subjects is made upon the advice and judgment of experts in these lines. Books on soils, drainage, crops, animal husbandry, stock judging, etc., written by recognized authorities, are at the service of any who wish to borrow them, and also books on domestic and household science, gardening, poultry raising and various subjects of interest to the household, as well as the books for general reading in the fifty-volume groups are made accessible to any country neighborhood that desires them.

Debating teams, schools and other organizations desiring material both pro and con on the live subjects that are being discussed are provided with adequate material by the traveling library; and women's study clubs throughout the state have found it possible to carry on as thorough study of the subjects assigned by means of the traveling library, though entirely remote from a public collection of books. Graded books suitable for the boys and girls are loaned to the rural schools through the co-operation of the teacher and the school board.

How may traveling library books be obtained? By writing to the Library Commission, State Historical Building, Des Moines, and asking for explanatory leaflet and the agreement cards which are to be signed and returned. These agreement cards are simply the formal application of the organization or the group of taxpayers for the use of the books with the agreement to pay transportation, return the books at the end of three months and make good loss or injury to the books.

There is no cost involved in the use of the traveling library books further than the payment of shipment from Des Moines and return. The state of Iowa furnishes the books, because of the belief in the educational service these books will render to her citizens. Books are not loaned outside of the state.

There is no reason why every neighborhood should not have its collection of books for winter reading for both young and old. The fifty-volume groups are usually shipped by freight, but smaller collections are sent by express and single books frequently by mail.

The constant exchange of books throughout the state and the consequent shifting of the collection, makes it necessary for the librarian of the travel-

ing library to send the best material available on a subject when requests are received, rather than attempt to send out lists on the subjects for checking definite titles, though this is sometimes possible in certain subjects. Every effort is made to give to the people of Iowa, through their traveling library, the best books either for general reading or upon the subject upon which information is sought.

When a group of people in a community desire to secure the benefits of the traveling library, the best method is to organize a library association for this purpose, electing president, secretary and custodian, who shall sign the necessary agreements to secure a traveling library. It is often advisable that the same person shall serve as both secretary and custodian. Where it does not seem possible or desirable to effect a library organization, the signatures of ten taxpayers may be secured to the agreement and a custodian selected.

Where the collection of books in the local library is small, it can be augmented materially by the use of the regular traveling library of fifty volumes, which may be exchanged every three months. In addition to this, after the local library has entered into an agreement with the library commission for the traveling library, additional books may be secured through it for the use of study clubs and individuals.

It is preferred that wherever possible loans from the traveling library should be secured through the local library or through an organization already under agreement. However, if this is impossible, the books may be secured by filing an individual agreement, to be secured of the library commission, which is signed by the person desiring the loan and also by the cashier of a local bank.

In all the above cases, transportation is paid both ways by the borrowers.

The place of pictures in modern education is so fully recognized that there is no longer any question as to their usefulness in library work. The attention is often attracted by presenting through pictures or picture bulletins, a suggestive thought or subject that may arouse a desire for reading and study.

Aside, however, from the suggestive value of pictures in stimulating reading, the pleasure afforded by pictures, as works of art, is of the utmost importance; good reproductions of masterpieces enable us to comprehend in a measure some of the elements of a noble picture and the characteristics of great artists and schools of art.

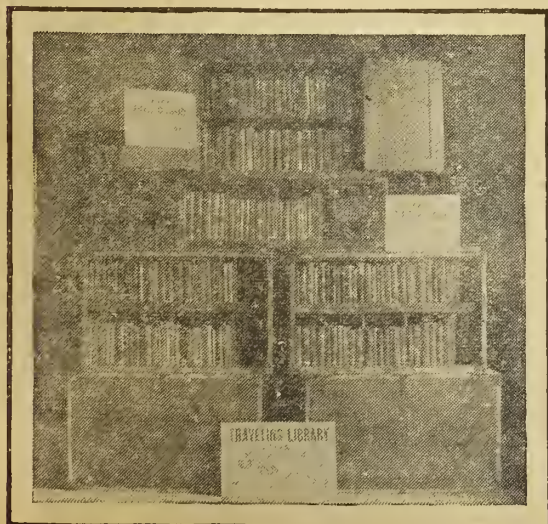
The library commission of the state of Iowa has made a beginning in the circulation of pictures in connection with the free traveling library, both for exhibit purposes and in connection with books on specific subjects.

It is believed that the educational function of pictures correlates with that of books to such an extent as to justify the hope of the library commission to further extend this work.

The collections listed are loaned for a period of two weeks, with the understanding that they shall be exhibited free and that they shall be hung in the public library building, if possible, whenever they are sent to a town having a library. Printed lists for distribution containing names of the pictures, with the artists, are sent with each exhibit.

The only expense is the payment of express charges both ways, but it is of the utmost importance.

(Concluded on page 40.)



THE TRAVELING LIBRARY INSTALLED IN THE POSTOFFICE OF A COUNTRY TOWN.



FREE BOOKS FROM THE TRAVELING LIBRARY FOR HOME, SCHOOL, INSTITUTE OR CLUB.

FARM FURROWS

Turned By a Practical Farmer

A disk harrow should be one of the several tools now used upon the farm. I could not get along without mine, and I do not see how some of my neighbors get along as they do. It is a certainty they do not know the good a disk would do for them, or they would buy for this spring's use.

If those who advise sowing blue grass on the last snow will kindly tell me when the "last snow" occurs, I will be glad to follow their directions.

A corner post and bracing made of v-bar steel is the latest. A bushel of concrete anchors them in the hole, and it is said that all the pulling a fence will ever give will not budge them a fraction of an inch. This sounds good to me.

Whenever I see a man at work with a walking cultivator, if he is doing fine work, I wish for his tool and would like to again be "broke in" to walking all day, but years of riding has spoiled all the leg muscle I ever did have. We are becoming a race of non-pedestrians.

It is said that a bill is before congress to allow the rural mail carrier his horse feed, in addition to his salary. I suppose an allowance of so much would be granted, and if prices continue as high as they are now, I would be in favor of granting it. If \$75 a month looks large to you, try feeding three or four horses and keeping house on the amount, and see. The farmer may not get \$75 a month, as is often claimed, but the farmer raises many things the mail carrier must buy, feed for the teams and many of the supplies for the table, for instance. Besides, carrying mail six days in a week is no snap.

The farmer's hired help hasn't joined the meat boycott. Herein is where the farm hand comes in; he gets his board along with his wages, and in these days of high cost of living, that amounts to a good deal. The average hired man gets pretty good chuck, too.

Every thaw we have turns the corn fields into mud, so when it is warm enough to husk it is too muddy. I guess spring's work will be attended by the preliminary of finishing last year's corn husking. It is going to make some of us hustle.

A salary of \$100 a month doesn't go far in the city, but think of what \$2 a day amounts to, with lay-offs frequently. Farming a patch of gravel, or among the stumps, is better.

Last year convinced me that the man who failed to use a disk cultivator at least a part of the time during the cultivating season misses it. I would not advise their use all the way through, but to clean out weeds and grass, they are certainly ahead of shovels.

The corner telephone pole will hardly hold the sale bills at this season of the year. I saw six tacked up end to end the other day. It seems the older we get as a nation the more restless we are. It makes business for the auctioneers and real estate agents, however.

Will land keep right on going higher? That is a question asked by many, and few care to risk an answer. Three years ago I knew a man who sold out at what he considered a good price, expecting to buy at a decline in a year or two. Land has increased in selling valuation nearly 50 per cent in many cases since then, and the end is not yet, so it seems.

I no longer set posts, except for the corners, but drive them. With a sixteen-pound sledge playing on a sharpened post the job doesn't last long, and the post is firmer than if a hole is dug and the dirt tamped back into the corners. I used to think holes had to be dug and posts set.

A reason why the meat boycott cannot reduce the prices of live stock is

because no other article of food is low in price. The vegetable meal we hear so much about is just as expensive as a meal in which meat is a prominent dish. It looks to me like a case of expensive living for the city folks, no matter what variety they select.

I cannot say just what I think of the concrete floor for the hen house. Those who have them think they are all right, but are careful to mention the necessity of using plenty of litter to keep Biddy's feet warm and dry. Concrete is certainly a stunner for the insects, but I imagine careless folks would have a healthier flock without it.

Seriously consider what the Red Letter Combination offered by this paper means. Trashy papers could be sold cheaper, but none of like quality ever have been offered for so little money before. I never read an issue of this paper without being impressed with its great practical value. The editors and writers are all practical farmers and stockmen, not cheaply hired pencil pushers who get their ideas by cribbing from other publications. Matter that appears in this paper is original. I get many farm papers that are a rehash of what has appeared elsewhere.

A friend just returned from an Ohio city says this is the way the meat boycott was working there: Factory hands would go without meat for breakfast, would get a big meat dinner at a restaurant at noon, then take no meat home to the family at night. The women and children, he said, were the ones going without meat.

The stalk littered corral furnishes a poor quality of manure until decomposition takes place. I have lately seen corrals with two feet of mixed manure and stalks. According to the scientists, to leave this over summer will be to lose a larger per cent of the manurial value, but a man could tear out his appendix and several other minor sections of his anatomy without getting many loads on a spreader in a day. Thank Heaven we have spreaders to unload such stuff.

I haven't very much confidence in the talk that the breed registration companies can be forced to be good by imposing rigid inspection. It will help and help wonderfully, but I mean to say that the reformation has got to work from the inside. Change the character of the officers of any such association and you change the character of the association itself.

Perhaps the one thing more than any other that drives the young people away from the farm is that "the head of the house" is more interested in the work of the farm than he is in the society of his fellows while the opposite is quite often true of the young people. No doubt many of the young people of today will expect their children to do exactly what they are rebelling against, but there seems to be a general awakening along this line.

Cheer up! The season of Kiug drags and lawn mowers is only a few weeks away.

The high cost of living will serve as fuel to keep the political pot boiling during this "off" year in politics.

Many of those who saw signs of an open winter last fall will be liable to waste less time in studying the sign language in the future.

One of the unexplainable things that can be seen quite often is a set of farm buildings where the barns are up to date in every way while the building that serves as a dwelling house looks as though it were about to tumble down.

The farmer is also getting his bumps for being one of the causes of the high cost of living. If the charges

were made more specific there is no doubt but that he could prove that he is innocent.

The thermometer does not seem to be very ambitious about reaching the high places now but we will forget all about it next summer when it begins to climb up and breathe through the top of the tube.

One thing that is needed on our farms are more thinkers who have energy enough to put their thoughts into action.

Many of those who have been testing their seed corn that was picked after the October freeze find that the ears thrown out will pay for the work of testing. Just what the loss would be if these culled ears were planted is hard to estimate.

A close inspection of the bobsleds put out this winter will show that the wood work of many of them is pine including even the runners. A pair of such bobs will not stand hard service nor will they last very long unless they are well cared for.

The introduction of labor-saving machinery should give the busy farmer more time to rest and get acquainted with his family and neighbors. If he buys the machinery then rents or buys more land so as to keep himself and his helpers going at full tilt all the time the labor-saving machinery does not serve its best purpose.

The difference in the price paid to the farmer for his produce and the price paid by the consumer is, in many cases, too great. It is to be hoped that the investigation as to the high cost of living will be able to locate the cause and suggest a practical remedy.

The ease with which the wind can slide the snow into the paths that lead to the barn and other buildings is enough to give anyone the tired feeling. This heaving the beautiful snow with a shovel is not what it is cracked up to be by the poets.

The faint heartedness that caused many of the hog raisers to sell off all their breeding stock last winter and spring is showing itself in the prices of hogs and the selling of corn now. The local markets here are getting shelled corn for the first time in many years. This is not due to a large crop of corn, but to a scarcity of hogs which will last at least till a new crop can be raised.

It is sometimes better to run than to stand still, but run in the right direction.

In 1915, says a reader, we will be trading a beef steer for a good pair of yearling colts. He left out the important part, whether the steer would be unusually high priced or the colts unusually cheap.

A traction engine in mud is about as helpless as a hog on ice. One pulled in on the frozen ground, near my place, this morning, and today's sun is leaving them in the mud.

A good neighbor of mine has bought a small farm close to town, and has hired to a township board to spend most of his time this summer dragging the roads. I wish more of the able-bodied farmers who retire from large farming would retire in this way.

Trundling machinery over the roads is harder on it than the work it does after the neighbor borrows it. This is why I neither like to lend nor borrow. If I borrow from a neighbor, however, it is certainly no more than right to return the compliment.

One of my neighbors bought the highest-priced, best fanning mill he could find, last year. After buying, he gave it out that neighbors were welcome to bring their grain there and use his mill, but the mill would not be let off the farm, because, as he said, the granary door is too narrow to let the mill out.

A man ought to be willing to do as much good to the roads as he does damage. The man who gets out with

a four-horse load soon after a rain, should pay back by doing a liberal amount of dragging as soon as a drag will do the most execution.

The annual tear-up incident to the first of March moving is now at its height. Loads are going east and loads are going west, all over the same road, on the same day. An on-looker cannot keep from thinking what would be saved if a system of "swapping" could be devised.

It is costing as much now to pasture a steer through the summer as it used to cost for the year's keep. I suppose the meat boycotters cannot or will not believe this.

Pasturing stalk fields at this season of the year, unless the ground is frozen or the soil dry, is a losing proposition. It is better to plow under a bushel of corn to the acre than to put cattle out after it in the mud. Corn that was husked in snow has more than usual left in the field, and the temptation is great to put stock out after it.

The two colts that I am going to break into active work this spring will wear soft cloth collars at the start. I believe they will be better for the start than leather collars, although I have never tried them except on older horses. For the horse with a sore neck or shoulder, I can recommend and advise them.

In the matter of testing seed corn this year, the evidence is all on the side of testing. For the small expense of a tester, and the little trouble it takes to test several bushels in this ingenious device, one cannot afford to guess at it and trust to luck.

When near neighbors cannot get along together the thing to do is for each to stay on his side of the fence. Life is so short that it seems childish to fuss and quarrel over the little things that are usually at the bottom of the "falling out" between neighbors, and it is simple and childish, but so it goes in this world.

A GOOD CHANGE. A Change of Food Works Wonders.

The wrong food and drink causes a lot of trouble in this world. To change the food is the first duty of every person that is ill, particularly from stomach and nervous troubles. As an illustration: A lady in Mo. has, with her husband, been brought around to health again by leaving off coffee and some articles of food that did not agree with them. They began using Postum and Grape-Nuts food. She says:

"For a number of years I suffered with stomach and bowel trouble which kept getting worse until I was very ill most of the time. About four years ago I left off coffee and began taking Postum. My stomach and bowels improved right along, but I was so reduced in flesh and so nervous that the least thing would overcome me.

"Then I changed my food and began using Grape-Nuts in addition to Postum. I lived on these two principally for about four months. Day by day I gained in flesh and strength until now the nervous trouble has entirely disappeared and I feel that I owe my life and health to Postum and Grape-Nuts.

"Husband is 73 years old and he was troubled, for a long time, with occasional cramps, and slept badly. Finally I prevailed upon him to leave off coffee and take Postum. He had stood out for a long time, but after he tried Postum for a few days he found that he could sleep and that his cramps disappeared. He was satisfied and has never gone back to coffee.

"I have a brother in California who has been using Postum for several years; his whole family use it also because they have had such good results from it."

Look in pkgs. for the little book, "The Road to Wellville." "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

CURRENT EVENTS

PRESIDENT TAFT has announced that he will insist on the early passage of four of the measures he has advocated ever since assuming the duties of his office, while others of minor importance may of necessity have to be postponed to another session of congress. Those which call for immediate action are the bills to amend the interstate commerce laws, provide for the regulation of the issuance of injunctions, grant separate statehood to Arizona and New Mexico and validate the withdrawals of public lands for conservation purposes. It is considered likely that the presidential influence will swing congress into line on all four policies. The matters of ship subsidy and federal incorporation will probably go over to a later session, but the president is determined that his pledges to the people before election and during his trip across the country last fall shall be kept in the important particulars. Without making any unnecessary show of his strength or influence, the president has been going ahead bringing peace to warring factions and making it clear that campaign promises are sacred. President Taft has a quiet, dignified way about him that brings results in a manner that leaves recalcitrants wondering just how and when they were converted.

SENATOR TILLMAN has been seriously ill for some days past, but is now well on the road to recovery. He suffered a stroke of paralysis which affected his brain, depriving him of the power of speech for several days and arousing the fear that he might never again be able to lift up his voice in legislative halls. Notwithstanding his vitriolic tongue and the vituperation he has heaped on enemies, Senator Tillman is one of the most popular members of the senate. Friends and opponents were equally solicitous as to his condition. Senator Tillman is considered absolutely honest and sincere in his convictions; he is fearless and determined and has always been a champion of the common people as opposed to vested interests.

THAT business methods introduced into national government affairs would result in a saving of \$300,000,000 a year is contended by Senator Aldrich, who has introduced a bill providing for the creation of a commission to reform administrative methods of the government. It is an undisputed fact that the commission form of government has proved a success in towns and cities. More work has been done for less money. Whether the same plan would work as well in national affairs remains to be seen, but it is Senator Aldrich's plan to have a dozen of the business members of the house and senate try to bring order out of what approaches political chaos at times and to run the government as a large employer of labor (say, Mr. Hill of the Great Northern, or the late Mr. Harrison of his system) would do in his own business affairs.

PHILADELPHIA is experiencing serious labor troubles. The employees of the Rapid Transit Company, to the number of several thousand, are on a strike and as a result of the efforts of the company to break the strike by putting non-union men to work riots have broken out, in which several lives have been lost and much property damaged. The labor union problem has become a serious one in the cities, where employers are all too often at the mercy of their organized employees. At the same time, however, conditions are not nearly so bad as they were about twenty years ago—say at the time of the big Chicago railroad strike. Capital and labor have come nearer together within the past five years than ever before, both sides realizing that there is a community of interest and that one cannot prosper

unless the other prospers also. The farmer has his individual labor problems and often finds himself unable to secure the necessary help, but he should be thankful that he is spared the labor-union problem and is not dictated to by any organization of farm hands.

DR. FREDERICK A. COOK, the North Pole faker, has been discovered in South America. He and his wife are traveling, apparently for pleasure, and without much regard to the furore occasioned by the exposure of the polar fraud. Dr. Cook refuses to be interviewed on the subject. He cleared up more than \$50,000 from writings and lectures on the arctic subject and appears to be enjoying spending the money fully as much as earning it. The charitable version of the whole affair is that his mind was unbalanced by the rigors of the arctic climate, but Dr. Cook remains sane enough to travel about, take in the sights and enjoy life. He bids fair to go down in history as the monumental faker and liar of several centuries.

LEROY PERCY, a lawyer and planter of Greenville, has been elected United States senator from Mississippi to succeed the late A. J. McLaurin. Governor Vardaman remained a candidate until the end and was defeated by only five votes. He announces that he will again be a candidate in a couple of years and intends to stay in the race until he is victorious. He has made several notable fights for the honor and is one of the best-known Mississippians. Senator Percy is forty-nine years old and is said to be an eloquent speaker, an astute politician and devoted to the best interests of the state and the entire South.

PRESIDENT TAFT visited Newark, N. J., a few days ago and was given such an enthusiastic reception he took occasion to remark it cheered him up and was recompense for the numerous newspaper attacks made during the year he has held down the presidential chair. "When the newspapers are prone to unite in hammering your administration, it seems sometimes with contemptuous disdain and sometimes with a patronizing friendship, it is hard to overcome the feeling that perhaps you ought to begin all over again," said the president and continued: "In view of all that they have said, the welcome which I have received today gives me a little hope that perhaps all is not wrong and that perhaps the American people are able to see through something of hypercritical questioning." It will be a year tomorrow since President Taft succeeded Theodore Roosevelt and he has been attacked and maligned by a great many newspapers. The fact remains, however, that he has accomplished a good part of what he set out to do; that he has proceeded in a dignified manner conscientiously to do what he thinks best, and that prosperity has continued general throughout the land. Mistakes may have been made, but there is certainly no need for the president to feel discouraged or to quit the hard fight for righteousness and national honor.

RRACE war broke out again at Cairo, Illinois, during the past week, resulting in the killing of one white man and the wounding of several others. A negro was arrested charged with snatching the purse of a white woman. A mob was formed, bent on lynching the negro. The sheriff swore in a number of deputies, among them being a half dozen black men. When the mob settled down to storming the jail the sheriff's posse fired, one member of the mob was killed and several others were injured. Shortly afterwards the militia companies arrived and a semblance of order was restored.

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OAK POLE—NOT PINE
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MALLEABLE FIFTH WHEEL
WHEELS TRACK
ENDLESS APRON
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The Front Truck is set back nearly two feet under the load. The GREAT WESTERN is coupled up short like a wagon. We can do this because there is no half apron to run down under the axles and come in contact with the front wheels in short turns. See the point? Other spreaders cannot be made this way.

Wheels Track Our front wheels track with the rear wheels. Only two furrows are opened instead of four. The wheels track like a wagon because the front axles are the same length as the rear axles and the spreader turns in its own length. This means that the GREAT WESTERN will spread manure on corn ground, straddling two rows of corn.

Simple Ratchet Feed This insures steady movement of the apron. The double dog ratchet works like a two-cylinder engine. The driver changes the feed from the seat—without stopping the team—to spread thick or thin. No worm gears or bevel gears.

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give to this chain that is necessary on any manure spreader to prevent strain and breakage in stopping and starting the horses. **Hood and End-Gate Combined** Prevents choking and throwing out bunches when starting. Acts as a wind shield while spreading. The rake forms a hopper—holds all hard chunks in contact with the beater until thoroughly pulverized. **Simplicity** There are only two levers on the GREAT WESTERN—one raises the hood, locks it and throws the machine into gear at the same time. The other lever changes the feed of the apron to spread thick or thin. Makes it so simple that a boy who can drive a team can handle the spreader.

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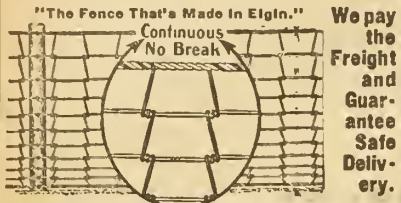
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ed, although conditions were chaotic for several days. Feeling against the sheriff and his black deputies ran high. A Cairo clergyman from his pulpit declared: "No American whose heart is filled with passion for the commonwealth can approve mob law, yet, things have occurred in Cairo, which, if they had not moved Cairo's brave men to deeds, daring and desperate deeds, and Cairo's fair women to tears, would have lowered them to the level of the unfeeling ox which calmly feeds as his comrade suffers or dies." The negro who was the cause of the trouble was quickly indicted, pleaded guilty and was sentenced to fifteen years' imprisonment. The complaint that the law is slow cannot hold in this case, although it is a fact that the delays, technicalities and loopholes of the law are undoubtedly the cause of much mob violence. Something must be done to make justice surer and swifter, else the reign of mob law will become even more general.

A WORD FOR THE SHIRES.

To the Editor of The Homestead:

There seems to be a concerted effort to head off the growing popularity of Shire horses. The old chestnut about bad feet and sore legs is kept alive and now comes the claim that they cannot stand our summer heat. It is true that many Shire stallions with poor feet have been brought to this country, some by unscrupulous dealers, others by inexperienced buyers who were not critical because, having no value in England, they can be bought for any price offered. To say that Shires have proverbially bad feet is absurd and absolutely false; all country roads in England are macadamized and are as severe on feet as city pavements. It is not likely that Englishmen, recognized as the most successful breeders in the world, would continue breeding bad feet.

Greasy legs are the result of over-feeding which is encouraged by the craze for heavy weight and the strife to win prizes. Shires that are judiciously fed are no more disposed to grease than other breeds. It was a common remark among visitors at the late Chicago International, that it was the largest collection of horse beef ever seen there.

Absolutely sound legs and feet can be found in plenty in England if buyers will be critical and pay the price. They have bone, muscle, and good proportions, unequaled by any other breed. In making my selections I choose horses in thin flesh or at most in only moderate condition. I have not a greasy leg in my stable nor a foot that will not stand country roads without shoes.

Answering the charges that they will not stand the heat I will say that is false also. I proved that in my ten years' experience on my Texas ranch. The conformation of first-class Shires is such that they do not require to be loaded with fat to make a good appearance. While there I used imported mares and stallions to do my heavy work; pairs weighing 3,200 would make their twenty-four-mile trips in the hottest weather, hauling two tons, and walk away from common horses hauling half that weight. They worked the season through unshod. Native Texans who had never seen Shires made fun of them at first, calling them "puddin' foots" because of the hair on their legs, but after seeing the fine colts by them and out of little broncho mares they changed their tune; when I was closing out there some men begged me to leave some Shire stallions. All the time I was in Texas I never had a greasy leg, a case of founder, nor a Shire affected with heat.

Everyone connected with horse importing knows that Shires have contributed largely to the success of the other draft breeds, without receiving due credit—some of the methods used would not bear daylight. Every breeder with any experience knows that Shire stallions of the right type, cross on all sorts of mares with more uniformly good results than any other breed, but if a man only cares for "great big colts" and doesn't know the difference between meat and muscle and doesn't care for heavy bone, there are plenty of others that will fill the bill.

George E. Brown.

\$5000 A YEAR AND MORE FROM A TEN ACRE FARM OUT IN THE UNION PACIFIC COUNTRY

That's what the orchardist or fruit grower can make from the land in California. Not every one can do it, to be sure, for the shiftless farmer is in the west as he is everywhere, but the man who buckles down to hard work can make every acre of this agricultural Eden yield more than any three acres he ever tilled in the rocky New England states or the heavy clay soils of the middle west.

The farmer out in the Union Pacific Country figures not on how much land he can get, but on how much can he get out of what land he has. Contrast \$500 an acre with 50c corn at 40-bushel crop, or 70c wheat at 20-bushel crop, and you will soon see why the Californian forges ahead and makes farming a big paying business.

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They are made in many artistic patterns, of rust-resistant materials, and are so strong that they will require no repairs for years.

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And have to fill and empty a big water tank and crank half the morning trying to start a well engine.

Ask the man who owns a "NEW WAY"—he don't have this trouble. We will give you plenty of names. Use judgment. Profit by the experience of others. The only air-cooled engine guaranteed for all work. Write us for Catalog S.

The "New-Way" MOTOR COMPANY
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15 Ash Street.

Testing Corn in Water or Sawdust--Which?

By C. E. Twambley

THE agricultural papers are devoting large space in urging the farmers to test seed corn with homemade sawdust testers; and the system is entirely wrong and the farmer especially in a year like this, is throwing away his best seed and saving his poorest. The necessity of testing is admitted by all. The farmer who plants his corn without testing is very shortsighted; and a farmer who does not do it cannot expect to make a success of corn growing.

There is a better way to test seed corn than by using the pan of dirt or the box of sawdust. These were good in their day, but a better method has been found. Mature corn has a certain marked resistance to cold water and hence the water test has a distinct advantage—in fact it is the only real test. Mature corn has an oily coating around every kernel that is impervious for a considerable time to cold water, while immature corn which is more starchy than mature corn, absorbs cold water readily and immediately starts to swell and sprout, if it contains life.

Nature assuredly knows what it is doing and she has so protected corn, wheat, woods—in fact all seeds, that they can lie in the wet, cold ground and not sprout. Every farmer has seen volunteer oats, corn, wheat, etc., where the seed has lain out all winter. It didn't rot, it didn't sprout. Why? Because nature has supplied a coat or covering for it that protects it from the cold, damp ground. But see how soon it comes up in the spring as soon as the sun warms the ground! The reason is simply this: Warm water will penetrate the coat and hence the seed will sprout. Surely no one will deny that. Hence it is absolutely necessary to have your tester warm and it cannot well be done in a sawdust tester that is constantly drying out.

Now, granted that it must be warm—the next thing to do is to get thorough saturation—get the kernel thoroughly soaked. We will all agree that soaking the corn in cold water will, after awhile, penetrate the coat and soak the kernel; but warm water does it better and more quickly. Now, while cold water will, in two or three times the period required by warm water penetrate the coat, the soft, immature kernels will, even in warm water, take the moisture more quickly than the hard, oily well matured kernels or the kernels containing much fat or feeding value.

The immature, soft or starchy corn is poor in food value. This corn takes up the sawdust or moist ground more quickly than the hard, oily corn, becomes saturated first, and consequently sprouts and starts growing first. By the time the hard, good corn is even thoroughly soaked, the soft starchy, weak corn had a well developed sprout. The farmer comes along, looks at his test, picks out the big sprouts, says that is fine corn and saves it for seed. He thinks it is the best of the lot because it has the biggest sprout. The corn that has not yet sprouted or has but a small sprout he throws away as weak corn while in fact it is the best, the very corn nature prepared to stand a late, cold spring or a cold rain just after planting.

The farmer plants the corn he has selected, the corn with the big sprouts, but in fact the soft, porous, starchy corn. It absorbs the moisture in the ground, even though cold, starts a sprout, possibly even before it gets through the ground a late frost, cold night, or a cold rain kills the sprout and the farmer says his corn rotted in the ground. It didn't rot. Good corn lies out all winter and doesn't rot. The weak, starchy, immature corn started to grow and couldn't stand the climate and, consequently died. Now, had the farmer planted the oily, well-matured corn, the corn nature prepared to withstand just such a condition, it would have lain in the

ground, the water would not have been absorbed, the corn would not have been sprouted and it would not have been killed. As soon as a sufficiently long period of warm weather came so that the moisture could penetrate the hard, oily cover of the corn, it would have sprouted; and, the ground being warm, it would have lived and continued to grow and to bring forth a crop.

To guard against the soft corn getting the earlier start in the soil or sawdust tester, I advocate the water test. With this water process all kernels are kept under water until both the hard, oily kernels as well as the soft, immature kernels are thoroughly soaked, then the water is drawn off and all kernels start to germinate at once giving the hard kernels an even chance with the immature kernels and then the best seed will assert itself. The good, strong corn will naturally grow more rapidly and become larger than the weak, immature, starchy corn; and when the farmer opens his tester and selects the corn showing a good sprout and four good roots, he is saving the very corn he has been throwing away by the sawdust method of testing. In other words, he selects the corn that won by merit and not the corn that cheated by getting two to four days start in the germination box. As long as the corn is entirely under water, it does not sprout at all so the starchy kernels that take in the moisture are held back until the farmer says "Go!" to all of them. You can prove this by dropping a few kernels of corn in a bottle of water.

To prove that the theory that the hard, oily kernels will resist water as nature intended is correct, take twenty kernels out of a thoroughly matured ear of corn where the kernels are hard and flinty, peel off the seed coat over the germ with your knife on half of the kernels then place the entire lot between cloth and dampen with cold water, keeping it damp. After four days, examine it and you will find the kernels that were peeled have a sprout and root system well started while the other kernels are just starting.

This new water process also solves the problem of barren stalks. Barren stalks are caused by lack of food supply. With the sawdust or soil

tester the roots are covered and cannot easily be seen. With this new process where the root system can be seen, there being no sawdust or dirt to cover them, only the strong seed which develops a good root system will be picked out for planting and you will almost entirely eliminate the barren stalks.

It requires only moisture, air and heat to germinate corn and moisture is all that is taken from the ground after planting until after it has sprouted and developed a root system. Certainly no food value can be taken up until roots are supplied to reach out and get it. Nature has stored in the kernel or seed enough food to grow roots and sprout and as soon as these are well developed they take up food from the soil and air. Lay

a few kernels of corn in a saucer for several days until thoroughly soaked, then turn off the water, sprinkle occasionally to keep moist and see if a good root and sprout do not develop during the next few days, without giving it any soil. Also note after the roots and sprout are well developed that the kernel is only a shell, all the

(Concluded on page 13.)

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hang close to the ground and have barb wire at bottom, so they are hog and chicken tight. You can raise them a little to pass over slight obstructions or away up high enough to let hogs run under or to swing over deep snow drifts. They are made of **High Carbon Steel Tubing**, not common gas pipe, but specially made, double strength tubing that is heavy enough to turn all vicious stock.

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Weight in Fence is Strength

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No—You Weigh Them**

USE the same good judgment in buying fence. *Weigh it* and see what you are getting for your money. In Ellwood Fence you will find good value by this test.

The close 2-in. and 4-in. truss-brace mesh of the Ellwood Fence distributes strain over a wider area than do fences of more open construction, making a long-life fence. Also the hinged-joint construction at every second cable effectually protects the cross or mesh wires by throwing the shock upon the heavy cable wires.

F. BAACKES, V. P. & G. S. A.
American Steel & Wire Co.
CHICAGO NEW YORK DENVER SAN FRANCISCO

NOTE.—Dealers everywhere. See the one in your town and have him show you the different designs and give prices. Also get from him booklet entitled "HOW TO BUILD A CHEAP CONCRETE FENCE POST," furnished free for the asking.

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Why Pay for Waste Wire

Do not be misled into counting weight per rod as an accurate measure of strength in a wire fence. The size (gauge) of the wire is the only sure test of its strength.

In a rod of wire fencing (where clamps, wraps or ties are used) there are from 150 to 700 clamps, wraps or ties—each one requiring about 1 1/4 inch of extra material. Consider carefully how much these 150 to 700 inches of wire weigh, and remember, that this extra weight adds nothing to the strength or durability of the fence.

In the "Pittsburgh Perfect" Fence there are no wraps, no clamps, no ties—therefore no waste wire, no dead weight. Take a "Pittsburgh Perfect" and a "wrap", "clamp" or "tie" style fence, each made of the same size (gauge) of wire:—the "Pittsburgh Perfect" will weigh less per rod, or per roll, because there is no waste weight—but will be quite as strong in each wire and stronger as a whole—and it will cost less. The

"Pittsburgh Perfect" Fence

Is One Solid Piece of Steel Throughout

the wires being electrically welded at every contact point. The selling price of the "Pittsburgh Perfect" is lower than the selling price of any other fence made of the same size (gauge) wire because in buying other fences you have to pay for many pounds of waste material—in the clamps, wraps, or ties—which add nothing to strength, but detract from appearance, effectiveness and durability.

Every wire in the "Pittsburgh Perfect" Fence is of open hearth steel—galvanized by our improved process. The weld is even stronger than the wire. 73 different styles for every fence purpose.

Your dealer sells it. Send for free catalog.

PITTSBURGH STEEL CO., Pittsburgh, Pa.

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Wraps

Clamps

Ties

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should have them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

HUSBAND AND WIFE—SURVIVOR'S SHARE.

On January 20th the following question and answer appeared in the legal department of The Homestead:

MARRIED WOMAN'S PROPERTY—WILL.

An Iowa Subscriber.—A and B are husband and wife. The wife inherited eighty acres of land after her marriage and it is now in her name. Neither husband nor wife has children or descendants. (1) In case the wife should die first, what share of her property would her husband be entitled to under the laws of Iowa? (2) Could the wife will all her property to another party?

Answer.—(1) The surviving husband would be entitled to one-half of the wife's property; the other half would go to her parents. (2) The wife cannot lawfully will away all her property. She cannot by will cut off her husband's right to half of it in case of her death. She may lawfully will away one-half of it.

A friend in Bedford, Iowa, has kindly called our attention to an error in said answer. The answer is absolutely correct, excepting the last two sentences. The error consists in the

from debts, and the sixth by descent, subject to debts. The distributive share of one-third, cannot be affected by will, while the one-sixth which is inherited, can be affected or defeated entirely by will. Therefore a married person may lawfully dispose of two-thirds of his or her estate by will.

LAW QUESTIONS CONSIDERED.

FINAL SETTLEMENT OF ESTATES.

A Subscriber, Olathe, Kan.—A man died in Iowa leaving a will which was probated there three years ago. Partial settlement and division of property bequeathed in the will was made at two different times. The heirs are all of age, but the executors of the will do not close the estate and seem careless about it, and a final settlement has not yet been made. (1) Does the law of Iowa limit the time between which final settlement must be made? (2) What steps are necessary to compel the executors to make final settlement and close the estate?

Answer.—(1) The law of Iowa provides that a final settlement of an estate by an executor or administrator, shall be made within three years, unless otherwise ordered by the court. (2) Any heir or person interested may apply to the court for an order requiring the executors to make final settlement.

MANURE ON LEASED LAND.

A Subscriber, Maywood, Ill.—Does the law of Illinois forbid a farm renter from removing manure from the leased premises, when made by his own animals, and nothing is said about it in the renting contract?

Answer.—The statute law of Illinois is silent on the subject, but it is a principle recognized by the courts gen-



The Holstein cow, Starie Mercedes Parthenia, owned by Mr. Albert Babler, Jr., of Monticello, Wis. This cow has a record of better than eighteen pounds and has been a most serviceable breeder. For further information concerning the Babler herd address as above.

statement to the effect that a married woman without issue cannot by will cut off her husband's right to one-half of her estate when she dies, but may dispose of half of her estate by will.

When a husband or wife dies, whether there be descendants or not, one-third in value of his or her estate goes to the surviving spouse, by the law of Iowa. This is called the "distributive share," and the survivor is entitled to it free from the debts of the deceased.

Neither husband nor wife can by will take away from the other, the right to this share. The law provides that the survivor's share cannot be affected by any will of the spouse unless consent thereto be given. If a will be found which gives to the survivor a share different from this, such survivor may consent and elect to take it, in lieu of the distributive share, but cannot be compelled to do so.

Where the deceased husband or wife leaves no descendants the surviving spouse is entitled to the distributive share of one-third—before mentioned—and also to an additional one-sixth of the estate, which descends to the survivor as heir. This one-sixth is subject to the debts of the deceased and the survivor's right to it may be defeated by the will of the deceased. One-third and one-sixth constitute one-half of the estate, the survivor taking the third as distributive share, free

erally that manure made by the animals of a tenant on agricultural lands, from the products thereof, becomes part of the land, and remains with it, and cannot be lawfully removed by the tenant, unless there be an express agreement to that effect.

DIVORCE IN IOWA.

A Subscriber, Dow City, Iowa.—A and B are husband and wife. They were married in Canada years ago, but have lived in Iowa continuously for fifteen years. A has never become a naturalized citizen of the United States. Can B obtain a divorce from A in the state of Iowa?

Answer.—If B has any lawful ground for divorce, she can obtain it in the district court of Iowa, in the county where she and her husband reside. The facts that they were married in Canada, and that her husband has not become a naturalized citizen of the United States, would not prevent her from getting a divorce in Iowa.

TIGHT PARTITION FENCE.

A Subscriber, Weston, Iowa.—A, B and C own farms adjoining each other. A wishes to make the fences around his farm hog tight. (1) Can he compel B and C to make their parts of the partition fences hog tight, and if so, how shall he proceed to do so? (2) Has A a right to put hog wire on the parts of the fences kept up by B and C?

Answer.—(1) The law of 1909 provides among other things as follows: "All partition fences may be made tight by the party desiring it, and when his portion is so completed, and securely fastened to good, sub-

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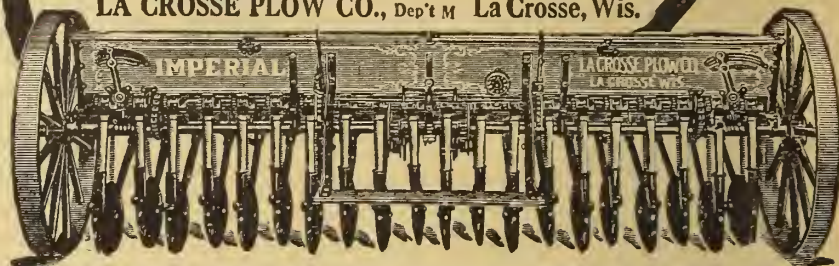
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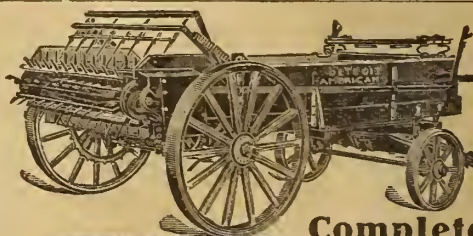
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stantial posts set firmly in the ground not more than twenty feet apart, the adjoining property owner shall construct his portion of the adjoining fence in a like tight manner. * * * In case adjoining owners or occupants of land shall use the same for pasturing sheep or swine, each shall keep his share of the partition fence in such condition as shall restrain such sheep or swine." A can enforce this law against B, by application to the fence viewers. The law provides that upon the application of either owner after notice given, the fence viewers shall determine all controversies arising under this section, including the partition fences made sheep and swine tight. (2) A has the right to put hog wire on the partition fences of B and C where they are along the line of his land.

WIDOW'S SHARE.

A Subscriber, Coon Rapids, Iowa.—A and B were husband and wife. A died without making a will, leaving two houses and lots and \$7,200 in money and credits. A has five children by a former wife and one by B, now his widow. B has already received one-third of the \$7,200. Is she also entitled to the home property valued at \$1,500, and a share in the other property valued at \$500?

Answer.—Besides the allowance set aside for her called the "widow's allowance," she is entitled to one-third of all her deceased husband's property both real and personal, and to remain in, and occupy the homestead, until her share is given to her.

DRAINAGE ASSESSMENT.

A Subscriber, Dallas Center, Iowa.—The board of supervisors established a county ditch and tile drainage for which A and B, land owners, were assessed. B brought suit against the board, claiming that he got no notice and that his land was properly tiled. The court excluded B from the drainage district. A then filed a notice with the board asking to be excluded also, on the ground that his land was not in the district. He had no outlet or branch with which to connect, being so situated that he would have to tile through B's land, taking water from four acres of B's ground, and thence through fifty

could take an appeal to the district court, giving bond to cover costs and expenses of such appeal. The failure of A to take an appeal from the decision of the board probably precludes him from having any legal remedy at this time.

AGREEMENT TO PAY ANOTHER'S DEBT.

An Illinois Subscriber.—While B was working as a hired man for A, he went to C and bought a lot of household goods from him on credit. In bargaining for the goods, B told C that A would stand good for the price of them, but A was not present and knew nothing about it. Afterwards A went with B to get the goods, and then C asked A if B was all right, and A answered that he thought he was. After the goods were loaded on the wagon, C asked A if he would see that the goods were paid for, and A said he thought B was all right and would pay for them. Nothing more was said. Later C sued A for the price, and C and B both swore that A agreed to pay for the goods if B did not, and the justice gave judgment against A for the price. The town has no constable and the justice appointed the town marshal to serve the summons on A. Was this lawful under the laws of Illinois?

Answer.—The justice had no power to appoint anyone to serve the summons instead of a regular constable—but if A appeared at the trial he is probably bound by the action of the court in rendering judgment. However, he should have taken an appeal, because the judgment is wrong. A could not lawfully be held liable for B's debt to C, without agreeing to pay it in writing.

TESTING CORN IN WATER OR SAWDUST—WHICH?

(Continued from page 11.)

inside having gone to supply food or start the sprout and roots. You need no soil or sawdust to germinate corn. Water is all you need and I wouldn't under any circumstances, use any other than the water test.

There is but one thing the sawdust tester does. It picks out the live ears



Imp. Kathleen 2d of Les Howards, another of the aged cows in the Guernsey herd of Mr. Howard Greene, of Genesee Depot, Wis., which has made an envious official yearly record and which is making herself otherwise useful in the Brook Hill herd. See page 56.

rods of C's land before he could connect with a branch of the system; at an expense too great for the benefit which he would receive. A has a half acre of swamp, while B has four acres of water, but A was nevertheless assessed and had to pay \$200, and has no outlet whatever. What can A lawfully do about the matter?

Answer.—When the appraisers or commissioners appointed by the board reported their estimates and assessments on the lands in the district, the county auditor notified the owners of the same, and of the day set for hearing the matter by the board. Objections to such report had to be filed with the auditor on or before that day, and on that day the board heard and determined all such objections, and had power to increase, diminish, annul or confirm any assessment as might appear to it just and equitable, and when the board so decided, any owner aggrieved by such decision,

from the dead ears; and that is all it does. The water tester not only does that but it picks out the weak ears from the strong ears; and enables the farmer to plant the real good, strong corn while the sawdust tester, if it does anything beside picking out dead ears, causes the farmer to plant the weak, starchy corn which while it will grow will not stand a cold, wet spring or a late frost.

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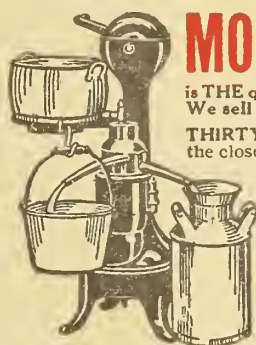
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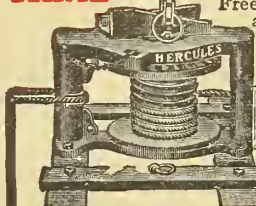
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Horticulture

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

HOTBED VARIATIONS.

Good results are obtained by the use of muslin covers, instead of glass, but the beds cannot be started quite so early, and the cold night protection of mats will need to be a little heavier than when glass is used. For extra early hotbeds some use double glass—that is sash glazed upon both sides. If more heat is desired, increase the slant toward the noon sun, by lowering the front edge of the bed, and raising the rear. This should not be the glass only, but vary the level of the seed bed to correspond. If quick work is desirable, and the weather is bad, giving but little sunshine, use less soil over the heating material below. The degree of heat is quite surely in proportion to the amount to be warmed.

It holds true in the hotbed, as in the outside garden, that to get stocky, strong plants, you must allow plenty of room. Thinning out must be followed persistently. It requires courage to do this, but what seems like a

sacrifice is not so, for in the end there is vastly more satisfaction, and value in twenty well-developed plants, than in a hundred weaklings.

Lettuce is the easiest of all vegetables to grow under glass, the radish coming next. Still there are others which can be forwarded several weeks by starting in hotbeds, and then transplanting. First of these are beets and onions. These both transplant easily, and it is a distinct gain to get the early start. Cucumber growers utilize the hotbed extensively for starting the crop six weeks before the outside temperature will admit planting. As the young plants do not take kindly to removal it is necessary to start the seeds in sods or small boxes. The strawberry box is convenient, and when taking to field it is only to break out the bottom, to drop the plants to place. The hotbed seems destined to still wider use, unless its improved form—the green house—through increased financial ability of the gardening fraternity supersedes it.

Trimming Up the Wood Lot

By W. G. Baxter

TIMBER in the wood lot is an agricultural crop, the purpose of which is to make money for the grower. A well-cared-for wood lot may increase the sale value of the farm \$5 or more per acre, but in this discussion we will consider only the value of the wood when produced.

There are only two conditions under which pruning will pay: First, when the quantity of the lumber per acre will be increased by the pruning sufficiently to give an added profit above the expense of the operation; second, when the quality of the lumber is raised so that it is thrown into a higher grade, giving an added profit. Pruning as it is frequently practiced not only does not raise the grade of the lumber, but it results in the lowering of the grade.

If it costs \$5 per acre to prune a wood lot, it is not enough that an increase of \$5 be returned to use at the end of twenty years. In addition we must have compound interest on the investment. This means that we must get \$13.25 returned to us at the end of twenty years for every \$5 invested, in order to make pruning a profitable operation in the wood lot.

Extensive or heavy pruning in the wood lot will rarely pay for itself. To make pruning profitable it must be done while the trees are small, when the little branches can be clipped off at a small cost per acre.

In setting out a wood lot it is a good plan to set the trees thick enough so that they will prune themselves. When the stand is part grown it will become crowded, and a thinning will be necessary. At this stage the trees will be large enough so that the cord wood removed will more than pay for the thinning. After the thinning the remaining trees are nicely pruned, and the operation has cost us nothing. If the stand is young it is often advisable to go between the rows with a good sharp corn knife and cut off all the limbs as high as one can reach. The branches should be cut quite close to the trunks, but the operation should be rapid and yet not bark the trees or otherwise cause unnecessary injury. The branches that are too large for the corn knife can later be removed with an axe.

The pruning should not be done too early, or it is liable to be heavier than the tree can stand. This was the case with a stand of ash that I recall that was about twelve feet high. All the lower limbs were removed with the result that a large amount of nourish-

ment was thrown into the small top, causing such a rapid height growth of soft wood that the trees were not strong enough to stand. The heavy foliage on the slender stems pulled the trees over until they lay prostrate on the ground. This plantation was on very rich soil, making heavy pruning more inadvisable than if it had been on a poor soil.

In a young, close stand of white pine about thirty-five feet high, all the branches were dead to a height of twenty feet. This stand was so close that the wind and snow was not able to break off the dead branches, which grew so thick that they supported each other and prevented their falling. In such a stand one could go through with a club and clear off all the branches on one side of a tree with a single stroke, making the operation a cheap one.

If these dead branches are left alone they will eventually fall to the ground. A better grade of lumber would result, however, if we aided the process with the club. If the wind does not get at the dead branches of dense growing evergreens, they are liable to hang on until the new wood grows about the rotted stubs, producing loose knots in the timber. Loose knots throw the lumber into a lower grade and reduce its value accordingly.

If big limbs over three inches in diameter are removed from the trunk, the wound rarely heals over quick enough to prevent the formation of a large defect in the wood that weakens and discolors it. A trick is sometimes practiced of trimming out the lower branches of a medium-aged wood lot that is intended for sale. In a few years the old wounds are healed over and the trees appear to contain good, clear timber. Such a stand is best sold on the stump, because when the logs are cut open the wounds will be found to be imperfectly healed, making very defective lumber. In such a stand the lumber would have been 20 per cent better if this late pruning had not been done. Ordinary sound knots then would have been the result instead of loose ones.

If the trees are planted close enough so that a good crown cover is formed, nature will usually do her own pruning far more intelligently and successfully than one who is not used to the operation. Pruning can never be done profitably after the stand has reached middle age. When the trees appear to be crowding each other, it is better to go in and thin out the stand rather than to prune it. Thinnings will us-

Money in Early Tomatoes

One of my customers sold \$102.35 worth of big, red tomatoes from 100 plants in his back yard. Another from 14 plants in her flower garden, sold 312 lbs. during July and August for \$16.70. It's all in the knowing how and in using the right seed. They used my new tomato—

Field's Early June

Earlier than Earliana, as handsome as Stone, as solid as Ponderosa, and a greater yielder than any of them. The greatest new tomato in 25 years. Small pkt., 20c; 3 for 50c; 1/4 oz., \$1. (This for specially selected seed, saved early.) My Garden Manual and Seed Catalog will give lots of pointers and good advice about gardening. It's well worth reading. Get it and see.

Henry Field, Pres.
HENRY FIELD SEED CO.
Box 25 Shenandoah, Ia.

FREE SEED OFFER

If you will write for our big seed catalog at once and send us an order amounting to One Dollar or over within thirty days from the date you receive our catalog, we will send you absolutely free with your order, a large collection of new varieties of seeds, sufficient to grow \$50.00 worth of vegetables and flowers.

Hunkel's Seeds are known everywhere—sow them in 1910 and grow record crops. Our 1910 catalog of Farm and Garden Seeds is bigger and better than ever. Write for catalog today and take advantage of our big \$50.00 free offer.

G. H. HUNKEL CO., Seedsmen
302 Chestnut St.
Milwaukee, Wis.

*Whatever a man Soweth
that shall he also reap
you sure will double
your crop with good
Clean seed*

*The Hawkeye Grader
is what you need
send for catalogue
and price today*

*The Maytag Co.
Newton Iowa
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My Fruits For the Garden

Are like the apples, cherries, peaches, pears, plums, and other fruit trees I grow—just the best that knowledge, skill, soil and climate can produce. All varieties adapted to the Central West.

Strawberries, Gooseberries, Currants, Raspberries, Etc.

My 2nd annual catalogue is now ready. You can have a copy free. If you write today I'll send you also a handsome card making you a member of my preferred list for a year—and that means money in your pocket.

IRVIN INGELS, Prop., Home Nursery
Station 34, La Fayette, Ill.

SEED CORN ON TRIAL

TESTED—GUARANTEED—HIGH GERMINATION

Why plant doubtful seed corn when you can get the best that grows, at a reasonable price. PURE BRED, practical varieties—yields big crops and make good money. We have it. We know it so well that we fully GUARANTEE IT. Test it any way you want and if not fully satisfactory, return at our expense. Fair enough, isn't it? Better buy seed corn of high germination, be sure of your seed and take no chances on doubtful seed.

Wouldn't you like to have some samples of seed corn, suitable for your location and our fine illustrated catalog, telling about our guaranteed seed. All free—write today.

A. A. BERRY SEED CO.
Box 603 CLARINDA, IOWA.

200 Plants \$1.00

100 of that choice new variety Senator Dunlap and 100 of two other choice varieties, and printed instructions with each order on how to grow them.

J. L. TODD & CO.
R. 3, Indianola Ave., Des Moines, Ia.

When writing mention this paper.

10 PACKETS Farm SEEDS 10¢



A great trial collection of farm seeds, composed of 10 packets, the cereal and hay wonder. 1 Silver King Barley, capturing the world prize with 175 bus. per A. 1 Red Bonanza Oats, backed by four fine farms for biggest yields. 1 Billion Dollar Grass, the Ten Ton Grass Wonder. 1 Salzer's hardy, luxuriant Alfalfa, endorsed by Gov. Board as the best on earth and 5 Five other packages. All for 10¢ in stamps or send 1.4c and we add a sample package of Nameless Corn. Try to name our new corn, whether or not you buy a sample packet. Send in a name. Entrance is free. If another sends same (acceptable) name as you, the prize will be equally divided. We offer

\$500.00 IN GOLD

for a name. Write to-day. We are the largest growers of farm and vegetable seeds in the world. Catalogue Free.

JOHN A. SALZER SEED CO.
124 So. 8th St. La Crosse, Wis.

IT PAYS TO SPRAY

The Iron Age 4-row Sprayer gives perfect satisfaction. Puts solution just where needed and in fog-like mist. Pump delivers spray under high pressure, thus reaching every part of vine, effectually killing bugs and preventing blight. Has Orchard Spraying attachment. Write for free catalog illustrating this and other Iron Age tools.

SAVE HIRED HELP

IRON AGE

Four-Row Sprayer

Nozzle Strainer Prevents Clogging

BATEMAN MFG. CO., Box 148 S, GREENLOCH, N. J.

WORLD'S GIANT TOMATO

This King of all Tomatoes is largest and most productive ever offered. Engraving was made from photo of plant grown by J. B. Gilbert. It grew 18 feet high and produced 5 bushels of fruit, very large, smooth, few seeds, solid all through, red in color, ripening very early and continuing all summer.

We want every person who uses seeds to see our Seed Book and test our seeds and we will give sample packet this Giant Tomato, also 3 other great novelties free for trial:

- 1 pkt. 16 Day Radish. Earliest Round Red Radish in the world.
- 1 pkt. Giant Cabbage. Largest heading kind known, from Europe.
- 1 pkt. Wonderful Lettuce. Earliest, largest, tender and crisp any time. Heads often 3 ft. around.

For only 6c. postage and packing we will mail these 4 sample pkts. and big 1910 Seed Book full of novelties. Seed Offers and a coupon, good for a 10c. selection from our Seed Book.

Fairview Seed Farms, Box 122, Syracuse, N. Y.

FERRY'S SEEDS

To grow the finest flowers and most luscious vegetables, plant the best seeds. Ferry's Seeds are best because they never fail in yield or quality. The best gardeners and farmers everywhere know Ferry's seeds to be the highest standard of quality yet attained. For sale everywhere.

FERRY'S 1910 Seed Annual

Free on request

D. M. FERRY & CO.,
DETROIT, MICH.

35 YEARS GROWING EVERGREENS



and Forest trees. Over 38 tested hardy varieties. All Nursery grown. We have over 50 million and ship safely to all parts of the country. Our trees live and grow, because they have good roots. Large as well as small trees supplied. \$4.00 and up per tree.

Our new catalog is a mine of information. You can have a beautiful Windbreak, Hedge, Shelterbelt or Screen with the hardiest of Evergreens at a very low cost. Our Bargain sheet describes 50 bargain lots from \$1.00 per 100 and up. Millions of Nursery grown Forest trees, Shade and Ornamentals, Shrubs, Roses and Vines. Send today for free Catalog and Bargain sheet.

D. HILL Evergreen Specialist
Box 216 Dundee, Illinois

SEEDS FREE 9 LARGE PACKETS

BIGGEST SEED OFFER EVER MADE

Send 10c for packet of our wonderful Earliest Tomato and receive four 10c PACKETS FREE of our latest improved varieties: 1 each Cabbage, Cucumber, Melon and Pepper. Also 25c cash certificate for 5 free packets, your selection, or apply \$0.25 cash order. Send 10c today and receive all above. Our big 100-page catalog free. Address:

A. A. Berry Seed Co., Box 303, Clarinda, Ia.

SEEDS

Platte Valley Fearless Seeds protects planters. Don't buy doubtful seeds when you can get reliable seeds for the same price. Special Offer: 4 pkts Royal Aster, Mammoth Verbena, Giant Pinks, Wonder Orchid Flower, also 10 varieties Annual Flowers and 10 sorts Spencer Sweet Peas, all for 10c. PLANTS: 6 Roses 25c; 6 Geraniums 25c; 6 Begonias 25c; 4 Pelargoniums 25c; 3 Peonies 25c. FREE Catalog and pkt. Giant Pansy

A. C. ANDERSON 1von St., Columbus, Neb.

ually pay for themselves in cord wood. Pruning rarely does this.

ASTERS FOR THE FARM GARDEN.

To the Editor of The Homestead:

There is no reason why every farm home should not be supplied with beautiful cut flowers as well as the city home and no other flower will yield as bountiful a supply of large, handsome flowers as the aster.

These flowers were known in our grandmother's garden as Queen Marguerites. During the last ten years great advances have been made in improving these flowers in beauty, size and perfection of blooms. Persons not acquainted with these advances would hardly recognize these newer varieties when compared to the old sorts; in fact, professional florists have mistaken well-grown asters for chrysanthemums.

These flowers reach their greatest perfection during cool months, so we must plant the seed to have them blossom before or after our hot summer months. For early flowers sow the seed of such varieties as Innocence, Snowdrift or Queen of the Market, indoors or in a hotbed early in March.

When the plants are showing the third pair of leaves they should be transplanted to stand three inches apart each way so as to give them a chance to grow bushy instead of long and spindling. Great care should be used in starting the plants, being careful not to get the soil too wet, as the seedlings are very easily damped off.

When the weather is settled they may be set out into the garden to stand fifteen inches apart each way. If the soil is not very rich a liberal quantity of well-rotted manure should be mixed with the soil. Should the soil be at all dry at the time of transplanting the plants should be watered until well started.

For late or fall blooming (which generally gives the finest flowers) start the seed in a finely-prepared seed bed about the last week in April, sow the seed very thinly and when the plants are about three inches high they may be set out into the garden, but as the later varieties grow larger bushes than the early sorts they should stand about eighteen inches apart.

The size and perfection of your flowers will depend a great deal on the richness of the soil and the attention the plants get. Never allow the soil to become hard or baked, but keep it fine and loose at all times not only to keep down the weeds, but also to preserve the moisture.

If very large blossoms are desired allow each plant to carry only about six of the main buds. All of the rest should be pinched off as fast as they are formed.

HINTS ON STRAWBERRY PLANTING.

Perhaps there was never more general interest in strawberry culture than at the present time. Good prices for the crop, have been the rule for several years, and each season there are thousands of new planters. Nurserymen report very numerous calls for plants for this year's setting. All this shows that the people realize that we are in a new era. There is not now, the danger of overstocking the markets which once was so real. Increase of population, and increase of the fruit-eating habit have changed conditions, making it safer to invest time and money in the production of the most popular fruit.

Everything depends upon getting a good stand of plants. The requirements for this are easily understood, but not always easily attainable. First, a deeply-tilled soil, rich and reasonably free from weeds; second, fresh sound plants carefully set, and third, good common-sense culture. For best results the soil should be mellow, and free from lumps, and it should be in a moist (not wet) condition, when the plants are set. Never set inferior plants, for if they are in bad condition you are only planting disappointment. When you can get the plants you want near home it is the best plan to do so. But in case you have to send far for them, it is safer as a rule to buy of a strawberry specialist, rather than a general nurseryman. This is because the nurseryman handles plants only as a side

FREE We Will Send Upon Application to Every Farmer **FREE**

PROF. THOMAS SHAW'S Directions for Planting Garden, Flower and Field Seeds in our Catalogue of Home Grown Seed

NORTHERN SEED CO., Seed Growers. 16th St., Valley City, N. D.

SEED CORN

We are the exclusive agents for H. J. Goddard's "SILVER KING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern-grown seed corn. Clovers, timothy, alsike, mixed timothy and alsike, garden seeds, etc. Cat. free. The Adams Seed Co., Box 1, Decorah, Ia.

SEED CORN---THE VERY BEST

HERE is your chance to get it. **DO YOU WANT IT?** All the leading varieties, either in the ear or shelled and graded. All carefully selected early in the fall. Raised for seed and thoroughly dried. Test it as you please for 10 days; if not satisfactory, return it and get your money back. If interested, ask for my 1910 catalog sent free upon request. **DO IT NOW. H. Z. O'HAIR, Prop., GRAND PRAIRIE SEED FARM, BUSHTON, ILL.**

Guaranteed Seed Corn

Reid's Yellow Dent, Wimples' Yellow Dent, Early Murdock, Dakota Gold Mine, Clay County White, Minnesota No. 13, Pride of the North, Farmers' Surprise (white) extra early. All South Dakota grown. Booklet B tells all about it, **FREE.** Write for it, do it now.

TOTTEN'S VERMILION SEED HOUSE, VERMILION, SOUTH DAKOTA.

10c FLOWER GARDEN 10c

Our Mammoth Collection. 100 Easy Growing Varieties.

This is without question the grandest collection of flowers ever put up. They will produce a perfect cloud of bloom and fragrance from early summer until the snow falls. New beauties and wonders will open up every day. You can have bushels of blossoms of gorgeous combinations of shades and colors. Here are some varieties included:

Asters, all colors	Prize Poppies	Sweet Alyssum	Portulacas, 10 varieties
Pinks, 10 varieties	Ageratum	Godetias	Love-in-a-Mist
Forget-Me-Nots	Sweet Mignonette	Rose of Heaven	Clarkias
Petunias, 10 varieties	Calendulas	Nasturtiums	Mourning Bride
Sweet Peas, 12 varieties	Ricinus, 12 feet	Everlastings, 10	Joseph's Coat
Cockscombs	Gillias, mixed	Sweet William	Marigolds
Candytuft	Chrysanthemums	Calliopsis	Larkspurs
Four O'Clocks	Job's Tears	Weather Plant	True Ice Plant

This offer can not last long. The mammoth package will be sent for only 10c to prepay mailing packing, etc. Send today. **MRS. L. B. LOWARY, 333 N. 24th Street, Quincy, Illinois.**

100 TRANSPLANTED EVERGREENS \$8 Express Prepaid

These trees have been transplanted and root-pruned, which gives them the large abundance of roots necessary to the life of the tree. They are from 1 to 1½ feet in height and first class in every way. Then they are backed by the fairest guarantee of any nursery in the U. S. and by the reputation of

Iowa's Greatest Evergreen Specialist For Forty Years.

We have 50 special bargains that will surely please you. Our guaranteed hardy fruit trees and small fruits will prove hardy or they cost you nothing.

GET OUR NEW CATALOG FOR FULL DESCRIPTION. Our new catalog is chock-full of bargains on our guaranteed Hardy Apple Trees, Plums, Cherries, Small Fruit, Shade Trees, Evergreens, Roses and Flowering Shrubs.

Bristow Nursery Co., 210 Bridge St., Hampton, Iowa.



SUNBERRY—THE IMPROVED WONDERBERRY

LUTHER BURBANK'S GREATEST CREATION. A Luscious Berry Ripening in Three Months From Seed

SEED 20 CTS. PER PKT. 3 PKTS. FOR 50 CTS. POSTPAID.

This is positively the **GREATEST** new Fruit and the best **NOVELTY** of modern times. These are facts which no one can get away from. The proofs are overwhelming in number and conclusive in character. Grown last year by 350,000 people.

Fruit blue-black like an enormous rich blueberry in looks and taste. Unsurpassed for eating raw, cooked, canned or preserved in any form. This great garden fruit is equally valuable in hot, dry, cold or wet climates. Easiest plant in the world to grow, succeeding anywhere and yielding great masses of rich fruit all summer and fall. The greatest boon to the family garden ever known. Leaves and branches are also used for greens and are superb. Everybody can and will grow it.

Luther Burbank of California, the world famous plant wizard, originated the Wonderberry and turned it over to me to introduce. He says of it: "This absolutely new berry plant is of great interest and value as it bears the most delicious, wholesome and healthful berries in utmost profusion and always comes true from seed."

READ my Catalogue for full description, culture, uses, etc. Also scores of testimonials from well-known and reputable people all over the country. Read the "Crime of the Wonderberry."

THE SUNBERRY is an improved form of the Wonderberry which proved so satisfactory last year. It is greatly superior to the original type, and I alone have genuine seed.

SEED 20c. per pkt.; 3 pkts. for 50c.; 7 for \$1.00. Agents Wanted, \$12,000 in cash offers.

With every packet of seed I send a booklet giving 99 Receipts for using the fruit, raw, cooked, canned, preserved, jellyed, spiced, pickled, jams, syrup, greens, etc. It is superior for any of these uses. Also a copy of my 152-page Catalogue with every order.

MY GREAT CATALOGUE of Flowers and Vegetable Seed, Bulbs, Plants and Rare and New Fruits **FREE** to all who apply. 152 pages, 500 illustrations, and colored plates. I have been in business 35 years and have half a million customers all over the country. Complete satisfaction guaranteed to everyone. Do not fail to see the many great Novelties I am offering this year of which the **SUNBERRY** is the greatest ever known.

JOHN LEWIS CHILDS, Floral Park, N. Y.

P. S. This offer will not appear again. Write for Sunberry seed, and Catalogue at once.

line, while the specialist has but one business, and every facility for prompt handling and shipping.

It is so easy to pack strawberry plants so they will carry safely, that there is no excuse for plants arriving in bad condition. Set plants sensibly, giving roots the natural shape in the ground, and 95 per cent may be expected to grow. If culture is begun as soon as planting is finished, it conserves moisture. A good shower right after planting is an insurance of a stand, but start the cultivator.

CELERY TO THE FRONT.

A subscriber writes as follows:

Our leading grocer told me lately, that our city uses every year about \$10,000 worth of celery. That is the aggregate cost to consumers. Now I have been wondering why this money cannot be kept at home, instead of paying it to the eastern growers and the railroads. I have some land too wet for corn, and have been told that it's just right for celery. Why could I not put ten acres into celery and supply the market? Is there any reason why the Michigan chaps can grow it better than we can west of the Mississippi?

This is an unusual question, and one of much interest and it indicates that people are looking more closely into local conditions. The time was when every one west of the great river was too busy with corn, cattle and hogs to think of such a crop as celery. But times are changing, and intensive culture is coming to the front. Overlooked opportunities are investigated, and there is capital for new ventures.

Celery may be grown successfully wherever water and manure can be supplied. It does better in a cool climate than in the south. It has been supposed that the Michigan swamps were specially fitted for it, but that is only because they have the water. Growers there find it necessary to manure heavily. Possibly the climate over there is a little more moist than ours. But there is not enough difference to make celery growing impossible, or even difficult.

If this subscriber has a soil which will get dry enough to plow in June, and will retain moisture, so that the crop will not dry out, and be dwarfed in August, he can grow good celery without a shadow of doubt. But let the inexperienced celery grower begin the work cautiously. If he has capital enough to fit the land, and plant and cultivate ten acres to celery he can afford to make a trip to Michigan, and study the methods of successful gardeners. Even after doing that we suggest a smaller venture at first. Even two acres of celery means a vast amount of labor, and if well grown a handsome return. By commencing upon a small scale you will learn by experience, and when you come to the larger effort, you would avoid many blunders, costly errors which would otherwise be very likely.

Growing celery is not like any other farm crop, it has to be learned, for the raising of the plants, the culture, and handling of the crop requires special methods. Yet there is no difficulty in learning the business, and any intelligent man may soon pick it up. The Kalamazoo growers, mostly Hollanders, had no experience with it in the old country, but take it up here, because it is the readiest means of getting the dollar.

There are numerous localities in the West where this industry might be started with every assurance of success. But it should be started carefully, with right soil, and right methods. In places where one man cannot venture upon a large scale, a company might be formed, say ten men, each undertaking to grow one acre. The advantage of union is this, the special machinery, like hillers and diggers could be used in partnership, at a great saving of expense. And again in selling the crop, when a large output is handled by one concern, it is easier to control the market, and the work is done at less expense. The great sums—hundreds of thousands of dollars—spent yearly by the west central states might be kept at home. And the toilers here would be better paid than the Michigan gardeners.

Over two-thirds of the cost to the western consumer goes to the carriers, and the dealers, and a very large part of this could be saved to the people. Every inquiry which in-

NOW'S THE TIME After the seed is planted it's too late to change your mind. If it's not good seed you'll not raise a good crop no matter how hard you work. Don't make a mistake—now is the time to decide how many bushels of Corn you want to the acre—then buy Vansant's Seed Corn and get them.

See Ad. on Page 18

PETTY BROS.' PURE BRED SEED CORN

Petty's Early Dent—Yellow
Petty's Eclipse—Yellow
Clay County White
RAISED ON OUR OWN FARMS



10,000 BUSHELS

hand picked, graded and tested from 25,000 bushels, yielding 75 to 90 bushels per acre this year. Tests 98 to 100 per cent.

High Grade \$2 per bushel
Extra Select \$2.75

Crated Ears \$4

PETTY BROS., Box 4, Liberty, Mo.

GOULDS RELIABLE SPRAYERS

GOOD FRUIT

Nowadays but few places get good fruit without using a good sprayer. If you want to spray effectively yet with the utmost economy, don't waste your time with an inferior outfit that some dealer may try to make you believe is "Just as Good" as Goulds.

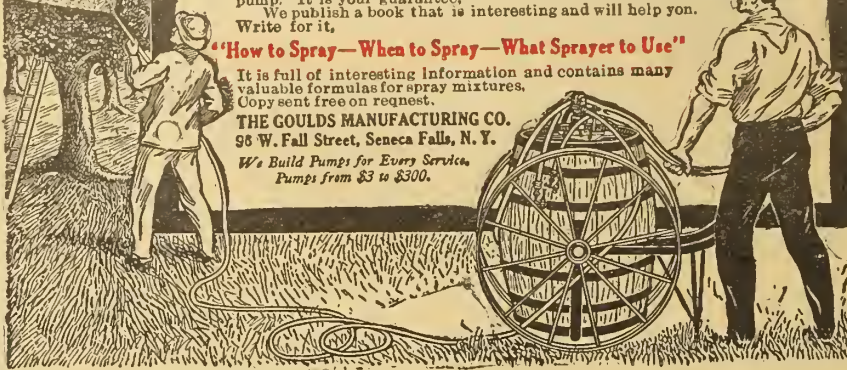
We make over 25 different styles—for hand or power. One of them is specially adapted to do your spraying better than any other outfit. See that the name "Goulds" is cast on the pump. It is your guarantee.

We publish a book that is interesting and will help you. Write for it.

"How to Spray—When to Spray—What Sprayer to Use"

It is full of interesting information and contains many valuable formulas for spray mixtures. Copy sent free on request.

THE GOULDS MANUFACTURING CO.
98 W. Fall Street, Seneca Falls, N. Y.
We Build Pumps for Every Service.
Pumps from \$3 to \$300.



INCORPORATED
1901

Towers' System of Surface Cultivation

SALES
8,940
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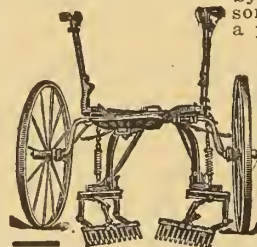
Cultivate the Entire Surface Between Rows

Mr. Corngrower: Are you killing weeds in our "right way" and sparing every crop rootlet—serving yourself and your country well in both results? It is lamentable, that not knowing better, some farmers using the sharp pointed shovel plow are nurturing the weeds and crippling the corn, reducing largely the yield. The Tower System of Cultivation and implements have corrected this sorry method, and produced remarkable results. They provide a perfect seedbed and perfect cultivation for the growing plant.

The Knives of the Tower implements cut the entire surface between rows, kill all weeds, pulverize the soil, making available its nutriment for plant food. Our cultivators instead of stirring a strip of ground too deep (as a shovel cultivator does) stir all the ground, but not deep enough to cut the plant roots. Our System increases the yield of corn, kafir corn, potatoes, sorghum, etc., and is putting many corn growers in the one hundred bushels to acre class. This means profit. Used aright, our implements pay for themselves in one season by increased yield.

People interested, who are not convinced on "surface culture" should write us for our free "Treatise on Corn Culture." Address the original man'f'ers of Surface Cultivators.

THE J. D. TOWER & SONS CO., 40th Street, Mendota, Ill.



153 Bushels of Corn Raised on 1 Acre

This Proves Conclusively that Seed Testing Pays

John Sunberg, President of Iowa Corn Growers' Association, has established a new record by raising 153 bushels of corn on one acre.

It's a great achievement. It demonstrates what a little extra care will do.

It proves conclusively that the majority of corn growers—those who are indifferent—those who rely on their judgment in selecting seed corn and only get 30 to 50 bushels of corn per acre are losing more than they make—two-thirds of their time and labor are being wasted.

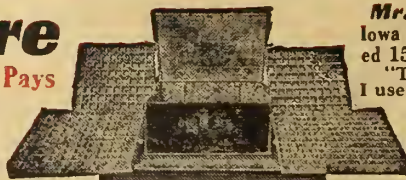
Even if you can't equal Mr. Sunberg's record—you can increase your corn yield 20 to 40 bushels per acre. Hundreds of farmers are doing it. They test their seed corn with

Holden's Ideal Tester

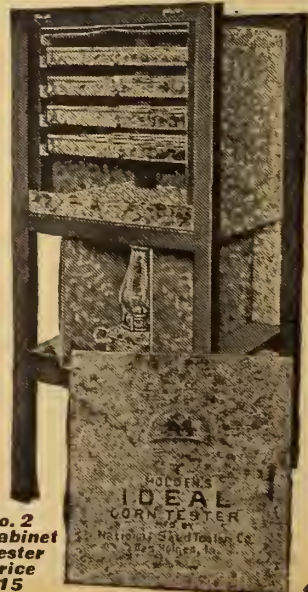
It's the safest and surest because water develops the germinating power of seed corn quicker and more accurately than anything else. By this method alone the strong hard kernels have a chance to absorb the water as quick as the weak starchy kernels—and under these conditions the strong kernels sprout quicker than the weak. By other methods the result is just the opposite. The weak starchy kernels absorb moisture quickest, consequently sprout first, with the result that the kernels from weak ears are planted. The strongest ones being slower in sprouting are discarded as unfit to plant. To be safe—do as the biggest corn growers do—test with HOLDEN'S IDEAL TESTER.

All you have to do is to fill the tester. Take six kernels from an ear and put in first little cup. Mark ear No. 1. Take six kernels from the second ear, put in cup No. 2 and so on until the four trays are full. Put the four trays in the germination box—one on top of another and fill the box with warm water. Place in warm room for 24 hours—then draw off water by pulling plug in bottom of box—replace cover and let stand for three days. On opening, the seed from good ears fit for planting will have sprouted. Save those ears and discard the rest. Seed from poor ears will show very weak sprouts and practically no roots. These are absolutely worthless. Get a tester today.

National Seed Corn Tester Co.,
1179 Walnut St., Des Moines, Iowa.



No. 1, 5 Bushel Tester, \$10



No. 2 Cabinet Tester Price \$15

Mr. John Sunberg, President of Iowa Corn Growers Association, who raised 153 bushels of corn on an acre, says:

"The important thing is the testing. I use the Holden's Ideal Tester, made by the National Seed Corn Tester Co., Des Moines, Iowa. I prefer this kind of tester for the reason that it insures a uniform test and unless every kernel of the sample I test produces at least four vigorous roots I feed the ear from which the sample kernels were taken to the hogs."

Order It Now---

Order your Ideal Seed Corn Tester now. If you are like many—in a hurry—send us \$10 for No. 1 tester, which tests 5 bushels or 400 ears, or \$15 for No. 2 cabinet tester. You take no risk—we are absolutely reliable and refer you to The Homestead, or to any other publication in Des Moines, any bank or business firm. If after testing a batch you are not thoroughly satisfied, we will return your money immediately on receipt of bill of lading showing return of tester.

For further information as to sizes and prices—fill in and send the coupon here shown. Do this today. Time is flying and you are nearer planting time daily.

NATIONAL SEED CORN TESTER CO.,
1179 Walnut Street, Des Moines, Iowa.
Your Name.....
Town.....
State.....
R.F.D.
Enclosed find \$10 for No. 1 tester, or \$15 for No. 2 cabinet tester. I will send you my FILED catalog and book.

SEED OATS

Bred for Large Yields
Northrup, King & Co.'s Lincoln Oat holds the record for the largest and the heaviest yield, 75 to 90 bu. an acre. Early, rust-resistant, strong, stiff straw, thin hull, heavy meat, soft nib, white berry, etc., make them especially valuable.
The Lincoln Oats I bought of you made 80 bu. an acre. Best field in this vicinity.
R. J. Winchester, Winnebago Co., Ill.
Price, bu., \$1.25; 2 bu., \$2.30; 10 bu., \$11.00. Don't sow ordinary oats when getting high grade seed, grown in the far North, may be obtained of us. Read more of our Lincoln Oat in our 26th Annual Catalogue.

Considered the most informing and complete, as well as the handsomest, seed catalogue published in America. Every one of the 140 pages is filled with information valuable to the seed planter. Entirely free from exaggeration both in descriptions and illustrations. No farm or garden is so large or so small that this book will not assist to greater profits. It is expensive and we cannot distribute them indiscriminately, but we send it free to those who wish to buy seeds. Write for it today.

NORTHROP, KING & CO., Seedsmen
477 Bridge St., Minneapolis, Minn.

GARDEN SEEDS FREE!

FIVE PACKETS FOR TRIAL

We have arranged to give to each new customer absolutely free five regular sized packets of our Superior Guaranteed Garden Seed, your selection. Write today for 25c certificate, which entitles you to these free packets and our big 100-page illustrated catalog, so you may make your selection and become acquainted with our seeds. If you give our seeds a trial we are sure you will become one of our pleased customers. Write today for our big 1910 100-page illustrated seed catalog. Address
A. A. BERRYSEED CO., Box 203 Clarinda, Ia.

icates a coming greater diversity of crop production in the West is cheering. It means both greater prosperity, and more population. By all means let us grow our own celery, but begin prudently, with the understanding that we must learn the business from the ground up. We shall, perhaps, make some blunders, and have some failures, but such difficulties will not prevent the development of the business.

SOILS FOR CATALPA.

A subscriber who is interested in forestry inquires if the hardy catalpa is adapted to lowlands. He has planted a few trees in a swampy place, and found them to do well. The catalpa is a native of rich lowlands, and in its habitat it is found in perfection, on the richest bottoms, and close to perennial water. Your wet land, if so drained that the water will not stand upon the surface, is well adapted to this tree.

It has been often noticed that the best groves of the tree in all the Northwest are found where planted upon soil similar to yours. And, on the other hand, the most conspicuous failures have been made where it was planted upon high, and dry land. If you can tile out your slough, or drain it, so that water will not stand upon the surface, you can proceed to plant it with catalpa with the utmost confidence in the result.

But you cannot expect any tree to thrive where water will not drain off. We are unable to tell you just where it would be best to buy the trees or seed. You will find in our columns the advertisements of many nurserymen who deal in them. We have every reason to believe that they will give you a square deal. However, in ordering we would stipulate that they should send you nothing but the speciosa, and get from them a written agreement to refund your money, if the trees proved spurious.

BEST FERTILIZERS.

A valued Missouri subscriber asks an opinion as to the best fertilizer for corn and garden truck.

We could give a clearer answer if we knew exactly what kind of soil our friend is working with. But we will suppose that he has a prairie loam, more or less rich naturally, but now rather exhausted by overcropping. The question of first cost in proportion to expected results must always be considered. The cheapest way to restore fertility to all land that will produce clover is to sow that crop. But when there is not strength enough to the soil for that, prepare for it by plowing under a green crop, of rye or buckwheat, a year in advance. This is the best way to proceed when a large tract of land is to be handled.

But if you have a small tract, and have, or can buy, close at hand, a good supply of barnyard manure, you have the best and cheapest possible application to restore fertility. Preferably let it lay a year before hauling out, and then with a good spreader scatter twenty-five loads per acre. This, when well mixed with the soil, will put it in shape for good crops of garden truck or corn.

If above suggested methods are not suited to your circumstances, you will perhaps have to consider the use of commercial fertilizers. Their use is a most costly method of manuring. But, in order to give safe advice along that line, it would be necessary to have an analysis of your soil.

TIME FOR CUTTING TIMBER.

A subscriber writes for information as to the lasting quality of timber as affected by the season of cutting.

This is a question that we have heard debated at some length, and there are differences of opinion which can hardly be reconciled. Our own observation and experience inclines us to the view that much depends upon the kind of timber, upon the character of the season in which it is cut, and upon the way the timber is handled after cutting. It is well known that most of the soft woods, protected with a close bark, will rot without seasoning, while if the same pieces have the bark removed, they

SEED POTATOES

Clean, clear seed, grown from Red River stock. No scab, no blight. Just such seed as we plant for our large acreage. Guaranteed satisfactory or your money back. Price, \$1.50 per bu.; 5 bu. at \$1.25. Six other varieties, all described in our free catalog. A postal brings it.

J. B. Armstrong & Son, Shenandoah, Iowa.

CORN GROWERS—ATTENTION

Would you pay 12 cents extra per acre for Seed Corn if you knew it would increase your yield from 25 to 40 bushels per acre? Vasant says his Seed Corn will yield that many more bushels than ordinary seed. Some of the world's largest corn growers say so, too.

See Ad. on Page 18

RATEKIN'S 100 BU. OATS

Ratekin's Big Banner 100 Bushel White Oats—The biggest, prettiest, plumpest oat in existence. Side by side with common sorts they yield 100 bushels per acre where other sorts make but 25 to 35 bushels. Strong, stiff straw; sprangled heads; ripens early; never rusts, blights or lodges. There is none like them, and when our stock is exhausted, there is no more to be had. Samples Mailed Free. Also our Big Illustrated Catalog of farm, field, grass and garden seeds. A postal card will bring them to your door.

Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

PURE-BRED, TESTED SEEDS

EVERY lot of seed that we put out is subjected to a vigorous germination test. Write for our catalog, explaining our Breeding and Testing Systems and WHY OUR SEEDS WILL GROW. Ames experts select and test our seeds.

THE SUMMERS SEED HOUSE, Malvern, Iowa.

GRILL THE SEED CORN MAN ELK POINT, S. DAKOTA

HAS GOOD NEWS FOR IOWA FARMERS

I OFFER for sale as long as it lasts: 3,000 bushels 1908 Reid's Early Yellow Dent; fancy ear seed in crates, \$5 per bushel; shelled and graded, \$4 per bushel. 2,000 bushels 1908 Iowa Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 5,000 bushels 1908 Dakota Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 1,000 bushels Early Yellow Murdock; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. This corn has been carefully saved from the year before, in well-aired and ventilated cribs, and I positively guarantee every bushel to test 90% or better, and I believe it will test over 95%. All my corn is raised within 15 miles of Elk Point, South Dakota, and is ten days to two weeks earlier than southern-grown corn of the same varieties. My Guarantee: Every bushel good or every bushel back. I have good 1909 seed corn also. Write today for circular and samples.

L. H. GRILL SEED COMPANY, ELK POINT, SOUTH DAKOTA.

Goldfield, Iowa, Feb. 11, 1910.

Gurney Seed & Nursery Co.,
Yankton, S. D.

Gentlemen:—I am pleased to be able to report that your Minnesota No. 13 yielded at the rate of 95 bu. per acre in my test rows last summer. I had considered the Minnesota No. 13 too small and early for us, but thought I would test it with four kernels per ear instead of three as we generally plant in this country. There was hardly a barren stalk in the field which made possible the high yield.

Your Gurney's Model dent is a good corn for northern Iowa and I think you are altogether too modest in your claims for it. I showed a sample of it at the National Corn Show and won a cora grader.

Yours respectfully,
Miller S. Nelson,
Pres. Iowa Grain Dealers' Association.

OUR 136-PAGE 1910
CATALOG FREE

Gurney Seed & Nursery Company
Box 10, YANKTON, SOUTH DAKOTA.

Hoyt's Evergreens

Grow 30 feet in ten years, 60 feet in 25 years. Cultivated "rooty" stock that has the growing habit. Our methods are correct, as shown by 40 years' success. Order direct from proprietors. Scotch Pine, 18 to 24 in. \$10 per 100. 2 to 3 ft., \$15. Norway Spruce, 18 to 24 in. \$15 per 100. 2 to 3 ft., \$25. White Pine, 18 to 24 in. \$15 per 100. 2 to 3 ft., \$25. Arborvitae, 12 to 18 in. \$10 per 100. 18 to 24 in. \$15. Other sorts and sizes; also carload lots very cheap. Stock grown at Scotch Grove, Jones Co., Ia. Address Hoyt Bros., Office at Monticello, Ia.

You Lose 12 Bushels of Corn--Time--Labor From Every Dead Ear of Seed Corn You Plant



Test Your Seed Corn

Save your corn crop this year by testing every ear of seed corn you plant. Testing this year means hundreds of dollars to you. You can select good looking seed, but you can't tell a live ear from a dead one without testing.

One dead ear of seed means a loss of 12 bushels of corn, so you can figure what it costs you when 50% to 90% of the seed corn this year is weak or dead and will not grow if planted.

Remember that every ear of corn contains enough kernels to plant 250 to 300 hills and if only 10 ears out of every 100 will not grow it means you lose 2,000 to 3,000 hills from an average of 3 stalks to the hill and an ear to each stalk.

Every seed corn expert in the country has been warning the farmers to test their seed corn this year. Don't guess that your corn will grow—be sure of it.

Get a "New Ideal" Seed Corn Tester

The best, most practical Seed Corn Tester ever invented. Tests the seed "nature's own way"—in the same soil as that in the field. The testing capacity of the "New Ideal" Seed Tester is 420 ears to the test, and the kernels from each ear are placed in the same uniform depth of soil so each kernel has an equal chance to show its vitality.

Test blanks, racks for holding ears while a few grains from each ear are being tested in the tester and full directions for operating go with each tester. The "New Ideal" is made of good substantial material and will last for years. It will pay for itself many times the first season; in fact the most profitable investment a farmer can make and especially this year.

Write us today and we will send you booklet giving full particulars and letters from farmers who have used it.

5 DAYS' TRIAL FREE

Cut out coupon below, fill in your name and address—mail it to us today and we will send you catalog and complete information about The Ideal Seed Corn Tester, also our five-day free trial proposition.

If you have seen our Ideal Tester at corn shows or elsewhere and want one at once send us an order and remittance of \$12, which pays for one Ideal Seed Corn Tester complete, including large seed corn rack used for holding ears of corn while a few grains of each are being tested.

Use this Tester five days, test a batch of corn—see how easy and accurately it works—if you then find that it's not satisfactory—if it fails to do all we claim, crate it up and ship it back at once at our expense and we will refund your money immediately.

The Ulbrich Seed Tester Co.,
310 Walnut Street
Atlantic, Iowa.

Cut This Out and Mail Today to
The Ulbrich Seed Tester Co.,
310 Walnut Street Atlantic, Iowa.

Gentlemen:—Please send me your catalog and full information about your "Ideal" Seed Corn Tester. Also your Five Days' Free Trial proposition.

Name.....

Town.....

State.....

Early Seed Oats

FERGUSON'S No. 1 White Early New-market Seed Oats have sprangly, long, heavy heads, large, plump kernels, thin hull. Graded and clean. Weighs 50 lbs. per bushel. Grows a long, stiff straw that stands up well. Ripens two weeks earlier than ordinary oats.

Produced 100 Bu. Per Acre in 1909

We have been breeding this one variety only, on our own seed farms in Canada for five years, and our entire stock is grown from our own seed; consequently we know its pedigree and guarantee every bushel to be as represented.

Read What the Govt. Grain Inspector and Farmers Say About Our Oats

P. L. A. Ferguson Co., Seedsman, City.
Gentlemen—Your Ferguson's White Early New-market seed oats grades No. 1 white, which is the highest grade. They are beautiful in color and unusually heavy, clean and admirably adapted for seed. Farmers could afford to pay a good price for such a quality of seed oats. J. N. BARNARD, Gov. Grain Inspector, Minneapolis, Minneapolis, Minn., Oct. 1, 1909.

P. L. A. Ferguson Co., Seedsman, City.
Gentlemen—We sowed 50 acres of your Ferguson's Early New-market oats this year. You have the best oats I have ever seen; they are all that you represent them to be.

NORTHWESTERN AGRICULTURIST.
P. L. A. Ferguson Co., Minneapolis, Minn.
Gentlemen—Your oats were exactly as you represented them. They threshed 75 bushels per acre and 40 lbs. per bushel. This makes 3000 lbs. per acre by weight. WALTER ROSEN, Kaudyohi, Minn., Dec. 4, 1909.

SPECIAL \$150 PREMIUMS
We will give \$100 in cash for the best peck of oats grown from our seed in 1910, also \$50 in cash for the best photograph of our oats in the field. Send 10c in stamps for large sample. Small sample free. Order at once.

THE P. L. A. FERGUSON CO.
Growers of Seed Oats
510 Nicollet Ave., Minneapolis, Minn.

The FARMERS' GARDEN

A Seed Drill and Wheel Hoe is indispensable—not only in a village garden but on largest farms.

Farmers should grow all manner of vegetables and "live on the fat of the land." Should provide succulent roots for cattle, swine, poultry, and save high priced feed stuff. Great labor-saving tools of special value for the home as well as the market garden. Send for free book.

IRON AGE

Only One of Many Iron Age Tools

The most complete tool made

SAVE HIRED HELP

BATEMAN MFG. CO., Box 148 G, GRENLOCH, N. J.

GOOD SEEDS

BIG SEED BOOK FREE

BEST NEW CROP GROWN SEEDS IN THE WORLD AT FARMER PRICES. In addition we give a whole lot of extra seeds with every order. OUR BIG ILLUSTRATED CATALOGUE OF FARM AND GARDEN SEEDS IS NOW READY. It is FREE to you. A postal card will bring it to your door. Write for it today, also send the address of your neighbors who buy seeds. Address.

RATEKIN'S SEED HOUSE,
SHENANDOAH, IOWA

1/4 CENTURY OFFER

1/4 FLOWERING BECHTEL CRAB FREE

A GEM among flowering trees: A theme for poets. Extra hardy, flowers double-shell pink, delicious wild crab odor. We give it and our beautifully illustrated Nursery Catalogue FREE.

A QUARTER OF A CENTURY in Sioux City! In its honor we make a grand offer to all customers. Four beautiful plants: Bechtel flowering, CrabGrnd Paeony, two rare vines, six superb Cannons. Too good to miss. Catalogue tells all about it, and how to plant, prune and care for trees. Most complete line EXTRA HARDY NORTHERN GROWN trees, shrubs, vines, bulbs, roses, perennials, paeonies, etc., in the northwest. Quality the best. Prices right. Write today for catalog 25.

SIoux CITY SEED & NURSERY CO. Sioux City, Ia.

CLOVER

Now is The Time to Buy.

Seed crop almost a failure. Prices bound to be higher later.

Buy before advance. Write today for special low prices and free samples of our Pure New Crop Reclaimed, Tested Clover Seed. Have Timothy and all grass seed. It is to your interest to get our prices and samples at once. 1910 catalog free.

A. A. Berry Seed Co., Box 103, Clarinda, Iowa

Do You Raise Fruit?

Then You Need Our Price List—

We offer Northern Grown Nursery Stock for Northern Planters. All stock is reclaimed, and we sell direct to the planter, saving you the agent's profit. 56th YEAR.

Special Offer 12 Senator Dunlap Strawberry Plants, postpaid, for 10c; or 1 Concord Grape, 2-year, postpaid, for 10c. Price list and booklet free if you mention this paper. Address KELLOGG'S NURSERY Box 225, Janesville, Wis.

Strawberry Plants Senator Dunlap, 75 cents per 100, prepaid. (Other varieties, circular.) C. J. MACKAY, West Liberty, Iowa.

Do You Raise Fruit?

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We offer Northern Grown Nursery Stock for Northern Planters. All stock is reclaimed, and we sell direct to the planter, saving you the agent's profit. 56th YEAR.

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Strawberry Plants Senator Dunlap, 75 cents per 100, prepaid. (Other varieties, circular.) C. J. MACKAY, West Liberty, Iowa.

will quickly season out and be firm and lasting for years, if used in some dry place.

This hints at the way to make timber last. Facilitate the work of seasoning as much as possible. Put it in a dry, airy shed. It is best to protect it both from sun and rain. The proof has yet to be furnished that there is any noticeable difference in keeping quality, whether timber is cut in summer or winter.

THE LOSS OF SOIL FERTILITY.

To the Editor of The Homestead:

Some farmers pay little attention to the restoring of their soils, while others give it their greatest attention. The principal causes of the loss of soil fertility are: First, the growth and removal of crops without restoring the equivalent of their fertilizing constituents; second, surface washing and undrained soil; third, leachy soils. Most crops contain a considerable amount of fertilizing product which they have drawn from the soil in their growth, and therefore one should not raise his corn or his wheat, etc., and haul it to the nearest market, but should buy animals to eat the crop. He will thus get the manure, which contains the fertilizing product of the crop, to haul back to his ground. He can sell his cattle or hogs or whatever they may be, and get a larger income than if he had sold his crop. A good saying of the farmer is, "To raise more corn to feed more hogs to get more money to buy more land, on which to raise more corn." The effect of surface washing is a common observation and needs no more discussion here.

The loss of soil fertility in drainage is not so well understood, but the loss is supposed to be very large. Any fertilizing products, therefore, should not be put on the ground until the crop is ready to be planted so that most of the benefit will be used up before it seeps away with the drainage water. Muriate of potash will evaporate easily and pass into the drainage water. While these are all possible sources of loss, it is perhaps safe to say that very small amounts of potash, lime or phosphoric acids are lost in the drainage water of the soil. Nitrogen, however, is something that clings very easily to the soil.

This product is not found so extensively in undrained soils, for the simple reason that the air cannot circulate in the wet soil and thus carry the nitrogen to it. Nitrogen is in many respects the most important of all the plant food elements. It is not found in large quantities in rocky soils, but it is in soils where decaying matter is buried. The farmer should, therefore, plow his cornstalks or stubble and not set it afire and allow it to ascend to open world and float in the air. I have found that the best corn grows where a large quantity of weeds or some product has been turned and allowed to decay. Clover is a very good crop to bring back the nitrogen because there are small insects continually eating and causing the roots to decay. As people migrated westward they found the soil very rich and strong, and some believed that it would never wear out. They found, however, that the soil became weak with the growing of large crops and are now convinced that soil will wear out in time.

We may briefly sum up the matter and say that to maintain the fertility of the soil a large amount of the crop must be fed up and the manure returned to the land. David Rankin, the middle West's greatest farmer, says: "Do not sell an ear of corn, but keep the profits yourself in your land."

C. R. Abbey.

Nodaway county, Mo.

How to Spray and When.

The professional fruit grower recognizes the fact that it is absolutely necessary to spray his trees in order that he may get perfect fruit and prevent the ravages of insects and disease. A farmer should be equally as much interested in any means of bringing about these excellent results. The best way to become posted on the subject of spraying, to learn how to spray, when to spray and what sprayer to use, is to get a copy of the book printed by the Goulds Manufacturing Company which illustrates methods of spraying and describes the extensive line of reliable spraying outfits made by that well-known company. The book is sent free to readers of The Homestead who ad-



I will Sell You THE Best SEED CORN in the World for 32 CENTS PER ACRE

No farmer can afford to plant inferior seed. It costs just as much to plant and cultivate corn that only yields 25 to 40 bushels per acre as it does to plant and cultivate the seed we will sell you for 32 cents per acre that will yield 75 to 100 bushels per acre. For over fifty years I have been breeding seed corn—I know the importance of planting good seed. And I know that

Vansant's World's Famous Seed Corn

will make big money for every man who will plant it. Figure it out yourself. The cheap seed costs you 20 cents per acre—yields 25 to 40 bushels; Vansant's Pure Bred Seed Corn costs you 32 cents per acre—yields 75 to 100 bushels—50 to 60 bushels per acre more than the cheap seed. And those extra 50 or 60 bushels will only cost you 12 cents extra for the seed. Can you make money easier or faster than to pay 12 cents per acre for seed that will yield you 50 or 60 extra bushels per acre—with no extra work—at no extra expense—but with a lot of extra profit? You can't afford to plant cheap seed. Our 1910 catalog tells you how our wonderful seed corn is grown, cured and marketed—fill out the coupon and we will send you the book free. Write for it today.

W. W. VANSANT & SONS,
Farragut, Iowa
Box 23

COUPON FOR FREE CORN BOOK

W. W. Vansant & Sons,
Box 23 Farragut, Iowa
Gentlemen: Please send me your 1910 Seed Corn Catalog.

Name _____
P. O. _____
County _____ State _____
Street or R. F. D. _____

CUT OUT THIS COUPON

APPLES, PEACHES, CHERRIES, PLANTS, SHRUBS

Why not have a little fruit of your own; and your front yard decorated with a few hardy, ornamental shrubs and trees? Read every word of this generous offer:

- 2 Duchess apple, 2 years' old.
- 2 Wealthy " " " "
- 2 Mo. Greening apple, 2 years' old.
- 5 Salway peaches, 2 years' old.
- 2 Montmorency cherries, 2 years' old.
- 25 Bubach strawberry plant.
- 25 German Iris—fine.
- 1 Snowball.
- 1 Spirea.
- 5 Norway poplars, 3 to 4 feet.
- 5 Concord grapes.

PREPAID

To all points in Iowa, Illinois, Minnesota, Nebraska, Kansas, So. Dakota and Wisconsin.


PRICE \$4.44

Ask for Bargain Bulletin

Think how much more beautiful your home would be with this collection. All the above stock guaranteed absolutely true to name.

Send us your order in 15 days and we will include with the above: One Dorothy Perkins Rose, one Baltimore Belle Rose, one Hydrangea and one Honeysuckle. Address


IOWA NURSERY COMPANY, Desk 3, DES MOINES, IA.



12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest and heaviest fruited, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS of HARDY "BLIZZARD BELT" fruits by next mail. Address

THE GARDNER NURSERY COMPANY, Box 202, Osage, Iowa.



Clarinda Nursery

seedlings; all buds and scions from twenty-five of the best orchards here; where seven to fifteen acres made the owner more clear money than the rest of the 80 or 160 acres; if you want to plant trees or berry plants of quality, it will pay you to write for catalog or come five hundred miles to see my trees before buying. Address

LEWIS ANNAN, CLARINDA, IOWA.

If you want a part of the best 200,000 hardy Iowa Apple, Peach, Pear, Plum and Cherry Trees, all grown by me, and all standing in the nursery row; all on whole root

CLOVER

THE ADAMS SEED COMPANY, Box 1, DECORAH, IOWA.

"PURITY BRAND" is a guaranty of quality. Blue, Plump, Pure; the BEST that money can buy; carefully cleaned and TESTED AT AMES. There is very little clover in the country equal to our NORTHERN GROWN seed. Also TIMOTHY, ALSIKE, MIXED TIMOTHY and ALSIKE and other Field, Grass and Garden Seeds. Catalog Free.

SEED CORN

Guaranteed first-class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. J. B. Armstrong & Son, Shenandoah, Ia.

The PLATTE VALLEY RED CEDARS

GROWN from seed, have no equal for wind-breaks; hardy and vigorous anywhere. Write for price list.

L. E. GARLAND, AFTON, IOWA.
Successor to Garland & Fowler.

EVERGREENS

200 Norway Spruce, 3 to 6 in., \$1; 100 Arbor Vitae, 3 to 6 in., \$1. Prepaid by mail. Many other \$1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price List free.

HARTVAD NURSERY, Box 14, HARTVAD, ILL.

Kramer's Celebrated
Twentieth Century Pansies

SOUVENIR PANSY POST CARDS

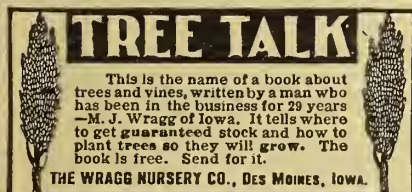
Special Offer—One packet of Kramer's 20th Century Giant Pansy Mixture, price 15c, together with eight of these beautiful cards in colors, for only 14 cents. Order at once. Illustrated Catalogue of everything for the garden, free. Mention this paper.

I. N. KRAMER & SON, Cedar Rapids, Iowa

OUR
1910
PLANTER
is better than ever
after 18 years'
SUCCESS
You can afford
to buy

THE SCHOFIELD POTATO PLANTER

Thousands of satisfied customers. Sold from factory to farmer at special prices. Satisfaction guaranteed. Write today for catalog H

SCHOFIELD & COMPANY,
Manufacturers, FREEPORT, ILL.

TREE TALK

This is the name of a book about trees and vines, written by a man who has been in the business for 23 years—M. J. Wragg of Iowa. It tells where to get guaranteed stock and how to plant trees so they will grow. The book is free. Send for it.

THE WRAGG NURSERY CO., Des Moines, Iowa.

SWEDISH SELECT
Seed Oats

I HAVE for sale a quantity of Swedish Regenerated Select seed oats. Price \$1 per bushel; 10 bu. for \$9; sacks free. These oats have made 30 bushels per acre more than ordinary oats on land equally as good. Please order early. Address

W. J. HARTUNG, MAXWELL, IOWA.

NURSERY
SNAPS

\$1

20 Budded Peach Trees \$1.00, 40 Concord Grape Vines \$1.00, 8 Budded Cherry Trees \$1.00. They are strong, healthy, ready to grow. Catalogue and 25c due bill free. Write now for choice selections. Fairbury Nurseries Box 5 Fairbury, Neb.

CLOVER

New Crop
Iowa Crown
Recleaned
TESTED

and inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc., at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free. IOWA SEED COMPANY, Dept. D, DES MOINES, IOWA.

SEEDS FREE--8 PACKETS

To everyone sending 10c. for a pkt. of our Prize-taker, the best free tomato grown, we will send free one pkt. each of the following: Beet, Carrot, Cucumber, Lettuce, Onion, Radish and Glorious Mixed Flower Seeds. This 10c. refunded with first 25c. order. Send today before this offer is withdrawn. Our illustrated catalog of Garden, Farm and Flower Seeds is sent free.

J. W. Jung Seed Co., Dept. 15, Randolph, Wis.

SEED POTATOES

ARMEN NO. 3—best late, white, yield; better than Rural N. Y., which they much resemble. Save money by buying direct from the grower. 3 bushels or more, 80c bu. Less amounts \$1 bu. S. C. Bug Orplington eggs \$1 per 15. Extra good mating. Address O. J. EARLY, BRISTOW, IOWA.

60 VARIETIES
Strawberry Plants

Send for Catalog.

D. J. HENRY, LaPorte, Ind.

SEED CORN

Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped subject to your own test. Send for free catalog. L. C. Brown, LaGrange, Cook County, Ill.

dress a request to the Goulds Manufacturing Company, Seneca Falls, N. Y.

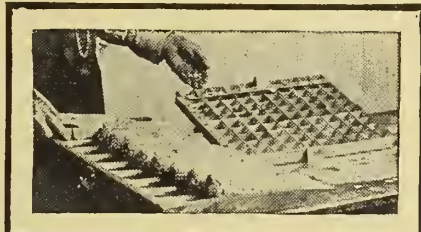
SEEDSMEN AND THEIR CATALOGS

Curious Government Supervision.

Every once in awhile, in nearly any community, there transpires an incident in which means are sought to control the personal actions of an individual, largely for the reason that he insists upon giving away his property, an act which his relatives fail to appreciate. An unusual and national incident of this sort occurred recently when the government of the United States stepped in and said to Mr. John A. Salzer, the noted seedsman, that it would not permit him to give away a number of fine Wisconsin clover farms. Mr. Salzer, with his usual broad-minded way of looking at things, had planned to popularize the growing of his Rejuvenated White Bonanza oats by offering four fine Wisconsin clover-growing farms as prizes to those who should grow the biggest crop per acre from Salzer Rejuvenated White oats. The plans had all been formulated and almost completed when the United States postal authorities asserted their rights and squelched the whole deal on the claim that Mr. Salzer's action would take on the appearance of a lottery. Another proposition which Mr. Salzer makes, that will be of general interest, is that he will give \$500 in cash to the party who will furnish him the best and most appropriate name for his newest breed of seed corn. This proposition, together with all other information usually given in a seed book, may be had by writing for Mr. Salzer's 1910 seed book which may only be had by readers of The Homestead who send to the John A. Salzer Seed Company, 124 South 8th St., La Crosse, Wis., at the same time sending the name suggested for the corn. Mr. Salzer's attractive advertisement will be found on page 15.

The Simplest Way to Test Corn.

Testing corn will be a delicate operation this year. Much of the seed is wholly bad, while a considerable percentage of it is weak, leaving only a relatively small proportion of strong seed. Because of this situation the Holden Tester, manufactured by the National Seed Tester Company, of Des Moines, Iowa, is being used by thousands of farmers to test their seed. With this tester neither earth nor sawdust is used, water and air being the germinating agencies. If the reader will refer to the illustration marked Fig. 1 he will at once grasp the idea of the Holden Tester. This tester is

FIG. 1. PUTTING IN THE KERNELS.
(Cut loaned by National Seed Tester Co., Des Moines, Iowa.)

comprised of a number of movable trays and each tray is divided into little cups. It is simply necessary, therefore, to take a few kernels from each ear, place in the cups, after which the seed is covered with water by the use of a sprinkler as indicated in Fig. 2. The tray is then placed in the box and another one filled in the same manner, after which the lid is put in place and the germination process is at once un-

FIG. 2. WETTING DOWN THE CORN.
(Cut loaned by National Seed Tester Co., Des Moines, Iowa.)

der way. In the course of twenty-four hours the water is drained off and nothing more need be done until the sprouts are long enough to show distinctly which are the poor, which are the weak and which are the good kernels. The Holden Tester eliminates guess work altogether, because when you are through you know just exactly where your good seed is. There is plenty of time yet to test seed corn, but there is no time to delay about corre-

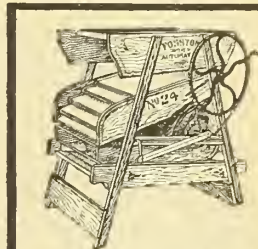
Don't Let 'em Fool You
On Your Seed

Don't let them lure you into buying a cheap Fanning Mill. It won't pay. DON'T YOU EVER BELIEVE IT! Your profits depend upon the size and quality of your crop, and your crop upon the seed you sow. Don't merely "fan" your seed, GRADE IT. Select the best, plump, healthy uniform kernels, whether it be Corn, Wheat, Oats or Barley. Don't guess at it. BE SURE you have the right seed, the kind of seed that the

FOSSTON Automatic Grain
Cleaners & Corn Grader

give you. Here are 2 Machines in 1, and with this machine on your farm, you're foul and poor seed proof. I guarantee it, and will gladly put my separator up beside any Fanning Mill on the market, that you can get to your farm on the same condition WITHOUT COST OR RISK TO YOU. All expenses paid by me. A beautiful, big, illustrated book for the asking, also special introductory prices. Send for it today. Don't select your seed before you learn more about the Fosston. Don't let them fool you on your seed.

Write today for my free book and special introductory prices.
S. N. SORESEN, President Fosston Mfg. Co.
450 Cleveland Ave., ST. PAUL, MINN.



GROW 100 Bushel CORN



Keller's Rotary Corn Planter Gauge

—can be clamped to the runners of any corn planter, and the shoe will cut just so deep, no matter what the speed or how uneven the ground. ALL your corn will grow because planted just the right depth, and YOU can harvest 100 bushels per acre as easily as have scores of corn-belt farmers whose names we'll send you. Price of Gauges \$5 per set. Get our money-making proposition which puts dollars in your pocket, yet won't take an hour of your time or work. FREE BOOKLET tells all—send for it to-day—no letter needed—just send your name and address to

P. O. KELLER MFG. CO., Waterloo, Iowa

VANSANT'S SUPERIOR SEED CORN is planted year after year by more successful corn growers than any other man's seed in the world. Men who raise from 1,000 to 1,000,000 bushels a year—men who wouldn't waste an acre with doubtful seed. It will pay you to plant it, too. See Ad. on Page 18

sponding with the National Seed Corn Tester Company, of Des Moines, Iowa, concerning the purchase of a Holden Tester. See page 16.

Potato Raisers' Club.

Potato raisers, like all others in their lines, have their troubles, and like other troubles these are best taken care of through organized action. Through a mere suggestion farmers in some potato-raising localities have organized potato clubs, the object being, of course, to discuss and bring out those points which should result in greater yields and better profits. As a text-book giving details and enumerating the benefits to be secured we refer our readers to the 1910 "Iron Age" booklet. This booklet together with other circulars and interesting matter concerning "Iron Age" farm and garden tools is sent free on receipt of a request to the Bateman Manufacturing Company, Box 1485 Grenloch, N. J. See page 15.



Thirty-two Cents an Acre. Messrs. W. W. Vansant & Sons, the well-known seed corn men of southwestern Iowa, have a very striking offer on page 18 of this issue. They offer to sell what they claim is the best seed corn in the world for thirty-two cents per acre. This firm have been breeding seed corn for more than fifty years. Mr. W. W. Vansant, the founder of the business, has raised up his seven boys to the same calling. No corn breeders in the corn belt have a better reputation than the Vansant family. They grow every bushel of the corn they have for sale and guarantee it to be all A No. 1. They had a fine crop last year that tests out at a very high percentage of vitality. The October freeze which damaged a large percentage of the corn of Iowa did not affect the Vansant corn. Their 1910 seed corn catalog tells the method used in growing, curing and marketing their famous corn. It explains how they breed up the various varieties to high standards and gives a vast store of other information which every corn grower ought to know. Their catalog is remarkable from many standpoints. The corn shown is from actual photographs and the whole book is entirely free from exaggeration. The prices quoted are also remarkable, being extremely reasonable. We believe that the thousands of our readers will profit by securing a copy of this catalog. This can be done by simply sending your name and address with request for it on a postal card. Address W. W. Vansant & Sons, Box 23, Farragut, Iowa.

SEED CORN

HIGH yielding, prize winning and sure to grow. Robert's Improved Reid's Yellow Dent won second prize at the International Corn Show at Omaha, 1909. Write today for free corn book explaining how it was raised, full particulars, prices, etc., of seed corn that was the largest yielding yellow corn in the world's class last year. Other varieties also. E. D. Roberts, R. I. Red Oak, Ia.

CORN IS MONEY

YOU can't make it faster than by sorting your seed with Delany's Seed Corn Sorter. Grades perfectly for edge drop or other planters, and better by test than high-priced graders. Price, \$2 and \$4. Write for Circular C to J. F. Delany, Colona, Ill.

FARMERS!

WE have a large stock of all the standard varieties of field corn, and can make prompt shipment. Our corn is all of high germination; price \$2 per bu. and upwards, cash with order. For particulars, write us. The Waldron Seed Co., Waterloo, Neb.

ODERBRUCKER BARLEY

The High Protein BARLEY. FIRST premium at Omaha in 1908; first, second, third and fourth in 1909. Without doubt the best barley in America. Get our circular, which tells you all about this good barley. We also grow Swedish Select Oats. Thompson Bros., R. 3, Wadena, Iowa.

PRIZE-WINNING SEED CORN

PURE KHERSON OATS and Field Seeds. Write for catalog and prices. AYE BROS., Second Street, BLAIR, NEB.

SEED OATS

I HAVE choice, re-cleaned seed oats for sale—Champion, Kherson and Swedish Select. For prices write G. GREGORY, Ralston, Iowa. C. & N. W., main line.

CLOVER SEED

NICE re-cleaned clover and 1909 crop, at \$9 per bu. Re-cleaned timothy, 1909 crop, at \$1.65 per bu., sacks, extra, 25c. Reference—First National Bank. Address MAHER & SON, PRESTON, IOWA.

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. THE WILDIAGEN STRAWBERRY BEDS, WATERLOO, IA.

Mammoth Clover Seed A limited amount for sale this year. Grown on my own farm in Linn Co., Iowa; new crop; re-cleaned and inspected by Pure Food Commissioner. Guaranteed to be genuine Mammoth Seed. Price now, \$10 per bu., including new bags, when two or more bu. are taken. M. Taylor, R. 1, Road, Center Point, Ia.

SEED CORN Reid's Yellow Dent, yield 111 bushels per acre; guaranteed to grow. Catalog free. DOBBINS SOY BEANS CEDARVILLE, OHIO.



Running Water in Your Home

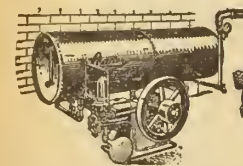
Wherever you live—in town, suburb or country—in a 5, 8 or 12 room house—an adequate, satisfying, lasting supply of water on any floor or in any room every day of every year is now possible. For here is a compressed air system that cannot be frozen out of service—or that no summer's gale can cripple. Will do the work of a thousand pumps for you—saves drudgery, safeguards the family health and protects the home from dangers of fire. A

Leader Water System

consisting of a steel Leader tank in your cellar connected with your well, cistern or spring—a gas engine, wind-mill or hand-pump, and a simple, easy-to-install system of piping is all that is necessary.

Send for Free Booklet, "How I Solved the Water Supply Problem," a timely and helpful booklet, together with graphically illustrated catalogue, and free upon request. No letter required, simply sign and mail the coupon.

Leader Iron Works, 3104 Jasper St., Decatur, Ill. Room 331, 15 William Street, New York City



Sign and Mail This Coupon Today

Without cost or obligation, mail me your booklet, "How I Solved the Water Supply Problem," together with your complete catalogue of Leader Water Systems.

Name.....
R. F. D. or Box.....
Town..... State.....

Hawkeye Lightning Rods

We Want Agents

We want a man in every locality to act as our agent. A man that is thoroughly reliable, has a good acquaintance and wants to prosper.

Our Hawkeye 98% pure copper cable Lightning rods are made of the best material in the world. They are easy to sell.

If you want to get into a good business that will develop into something worth while. Write me at once.

We turn all prospects over to you in your territory.

If you are interested, get our agents' splendid proposition NOW.

Write Us Today. Dept. 3.

Hawkeye Lightning Rod Co. Riverside, Iowa.

GREAT DOUGLAS \$123.75

6 H. P. FARM ENGINE
More power, higher efficiency than you can get in any other farm engine at anywhere near the price. Takes up less floor space than any engine of its size and power built; 14x22 inches. Shipped ready to run; no piping or wiring necessary; mounted on skids, complete with gasoline or water tanks; easily moved from place to place.

2 # \$63.75 4 # \$93.75

No valves—no gears, cams or springs—no cylinder head joints to leak and pack. Every part accessible. Economical with oil and gasoline; marvelously simple. Run any machine that can be run with belt power. Easily adapted to marine use. Works equally well with Kerosene, Gasoline or Distillate. We guarantee it.

30 Days' Free Trial

Write at once and learn how you can test a "Great Douglas" on your own farm for thirty days free. Postal brings full information.

New Belle Isle Motor Co., 17 Motor Boat Lane, Detroit, Mich.

EXCELL IRON and STEEL ROOFING & SIDING

Direct To You from our own factory at lowest factory prices. We are manufacturers and handle no 2nd hand or short length stuff. Every part of our roofing and siding is made in our factory from genuine Charcoal Iron, Double Refined Puddled Iron or Steel. Put on the kind of roof that wears. Ours is guaranteed. It's isn't the best you can buy anywhere, don't pay for it. Easy to lay. No experience needed. Tell us about your building and let us quote you factory prices. Write for Metal Goods Catalog. It is free.

THE UNITED FACTORIES CO. Dept. No. R-28 Cleveland, Ohio.

FOR SALE An early variety of fine white SEED CORN. Write to CHARLES ROWAN, LEXINGTON, ILL.

GROWING LIMA BEANS.

One of the neglected crops in many places, and one which offers an opportunity for profit to people of small capital, is the lima bean. There are hundreds of towns where this vegetable is not used, simply because the people cannot get it. But in all such places let it be furnished until people are educated to its use, and they will use it in great quantities.

It requires a rich, warm and dry soil. Heavy, wet land will never do for the lima. It should not be planted until the soil is fully warmed up, or about the time you would plant melons. Plant just deep enough to insure moisture sufficient for germination, and put the beans in with the germ edge down. This is one of the little things which it is important to observe. The bush varieties may be planted two feet apart each way, but the tall, running kinds should have more room.

The dwarfs are easy to handle, but the running varieties are the best croppers and, as a rule, gardeners who grow limas in a commercial way cling to the old kind.

Poles and strings must be provided in good time, and it is found wise to give the vines a little hand help. The rich flavor of this butter bean is one which, when once enjoyed, will not be readily given up. And it is a far more healthy vegetable than the navy bean. It does not produce the discomfort which often results from the free use of the latter. The profit argument in favor of growing limas is irresistible. You may count on the fingers of one hand the possible crops which will yield as much net cash from a small piece of land. The length of the season of use for the lima is remarkable. As soon as half grown in the pod it is palatable, and the ripe ones may be used all winter, so it is really an all-the-year-round vegetable.

SWEET POTATO PLANTS.

A subscriber asks for information about sweet potato plants, how they are grown, and about how many from a bushel of potatoes. To get early plants the potatoes are bedded the last of March or early in April. A common hotbed with glass covers may be used, or if started a little later the glass may be omitted. Cover the manure in the bed with about three inches of rich soil, and in this place the tubers as closely as they will pack. Then cover with about two inches of dirt.

If the weather is warm, or if you have good bottom heat the sprouts will start in about a week. If the soil is inclined to be dry, and there are no showers, sprinkle with warm water. When the plants are about four inches above the surface, it is the custom to take up the entire bed, carefully break off the sprouts and replace the potatoes, exactly as before. The sprouts if carefully removed will have a fair amount of roots, and the second crop will be as good as the first.

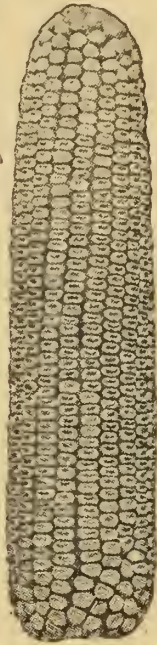
Often growers have losses from the rotting of the tubers after they are bedded, to avoid this you must get a good quality of seed. It is poor economy to buy cheap stock. If started very early, the hotbed should have the sun, and as the plants are tender, they should be carefully shielded from late frosts.

A bushel of tubers will produce from 1,500 to 3,000 plants, according to the size of the tubers, as the small potatoes will produce about as many as the large. But they will be weaker. If plants are started after the ground becomes thoroughly warm in May, the bottom heat of horse manure may be omitted. But for high latitudes the early plants are best.

Cunning of Rats.

Rats are too cunning to be caught, more than one or two in the same trap, too cute for the stereotyped ready-for-use things. You may get a few one time, with phosphorous pastes, but never again. They instinctively avoid the familiar forms of ready prepared for use, catch penny devices. Rough on Rats being a dry, odorless, tasteless powder, and all 95%, poison, with no cheap, inert admixture, can be mixed each time you use it with a different food, thus disguising it in many ways. Rats are smart, but Rough on Rats beats them. The idea! of a dealer attempting to substitute anything for Rough on Rats. 15c., 25c., 75c., at drug-gists.

GUARANTEED SEED CORN



GUARANTEED TO GROW. Repeated tests show 90% to 100% germination. Crop was early matured and picked before damaging storms. The preparation is most painstaking and thorough. Each ear is rigidly examined and every lot carefully tested.

30,000 Bushels 1909 Crop

We have 30,000 bushels, 1909 crop, home-grown, pure-bred varieties, including Reid's Yellow Dent, Early Yellow Rose, Iowa Silver Mine, Snow Flake, Gold Mine, Wisconsin White, Longfellow, Pride of the North and others. Sixteen grand varieties.

Our Reputation is at Stake

For over twenty years we have been shipping only good seed corn. You run no risk buying from us. We are in the business every year and stand back of every shipment of seed corn. Our long experience is at your service. Consult us before you buy. Catalog and samples free.

Prices: Shelled and graded, \$1.50 to \$2.00; crated ears, \$2.25. Every bushel guaranteed. Reference: Iowa Homestead.

J. B. ARMSTRONG & SON, (Seed Corn Growers,) SHENANDOAH, IOWA
RELIABLE---EXPERIENCED---RESPONSIBLE

GROW CORN THAT WILL MATURE

You can't afford to take chances each year. Your high-priced land, your labor make a good crop an absolute necessity. You have tried that "great big" corn and you've had a lot of "big" soft corn as a result more times than you have had a mature crop.

TRY OUR WIMPLE'S IMPROVED YELLOW DENT

the best and surest variety for northern Iowa and a corn that has given grand results as far south as Oklahoma. It matures. No soft corn if you plant Wimple's Yellow Dent. It will ripen from two to three weeks earlier than your native corn, and it yields big crops too. It has gone as high as 100 bushels per acre and you'll have difficulty in getting a corn that's any ways near its equal in yield, that will shell out more to the bushel of sound corn and which is richer in feeding value.



MATURED JULY 26th

Lawton, Okla. Aug. 25, 1909
The O. S. Jones Seed Co., Sioux Falls, So. Dak. Gentlemen—

The seed corn I received from you last spring, was planted on April 30, 1909, six weeks later than our home grown seed, and was fully matured on July 26th, four weeks earlier than our own corn and out of the way of the hot winds.

I believe your corn to be the best we can get for this locality. Sincerely yours, HARRY FURRY

We Have Everything in Field, Grass, Garden and Flower Seeds

Canadian Seed Oats, Dakota grown Alfalfa, etc., seeds of quality at a fair price. We want to do business with you. We know you will be pleased with our seeds and the result they give. Try us this year and you'll come again. Write us today for catalog. It tells all about all our seeds, our big new fire-proof building, one of the finest in the country. No seed company in the Northwest is better equipped for the business. Address all inquiries

O. S. JONES SEED CO., Phillip Avenue North, SIOUX FALLS, S. D.

SEED CORN

Tests 98% or Money Refunded

I GUARANTEE EVERY EAR I SELL. Order my corn today—keep it 10 days—test it. If it is not as represented, return it at my expense.

You run no chances when you buy my high-class seed corn. I take all the chances because I can deliver the goods.

Try my Longfellow (30 Days), you Northern Iowa farmers, or my Wisconsin White or Huron Yellow. Makes 65 bushels and gets ripe. In Central Iowa, plant my Speckled Calico, or my Gold Mine or Silver Mine. I also have Reid's Dent, as fine as grows—sound, ripe and pure. All this corn is early picked, carefully prepared, and shows good germination test.

I PAY THE FREIGHT—I pay all freight charges on either ear corn in crates or shelled corn, sent to all points in Iowa, Nebraska or Illinois.

Our prices, quality considered, are the lowest offered by any reputable seed corn grower, and are as follows:

Ear Corn (in crates), single bushel.....\$3.25; 5 bu. \$3.00 per bu.
Shelled Corn (graded with grader), single bushel.....\$2.75; 5 bu. \$2.25 per bu.

ROME ARMSTRONG, R. F. D. 1, SHENANDOAH, IOWA.

(Reference: Shenandoah National Bank or Iowa Homestead.)

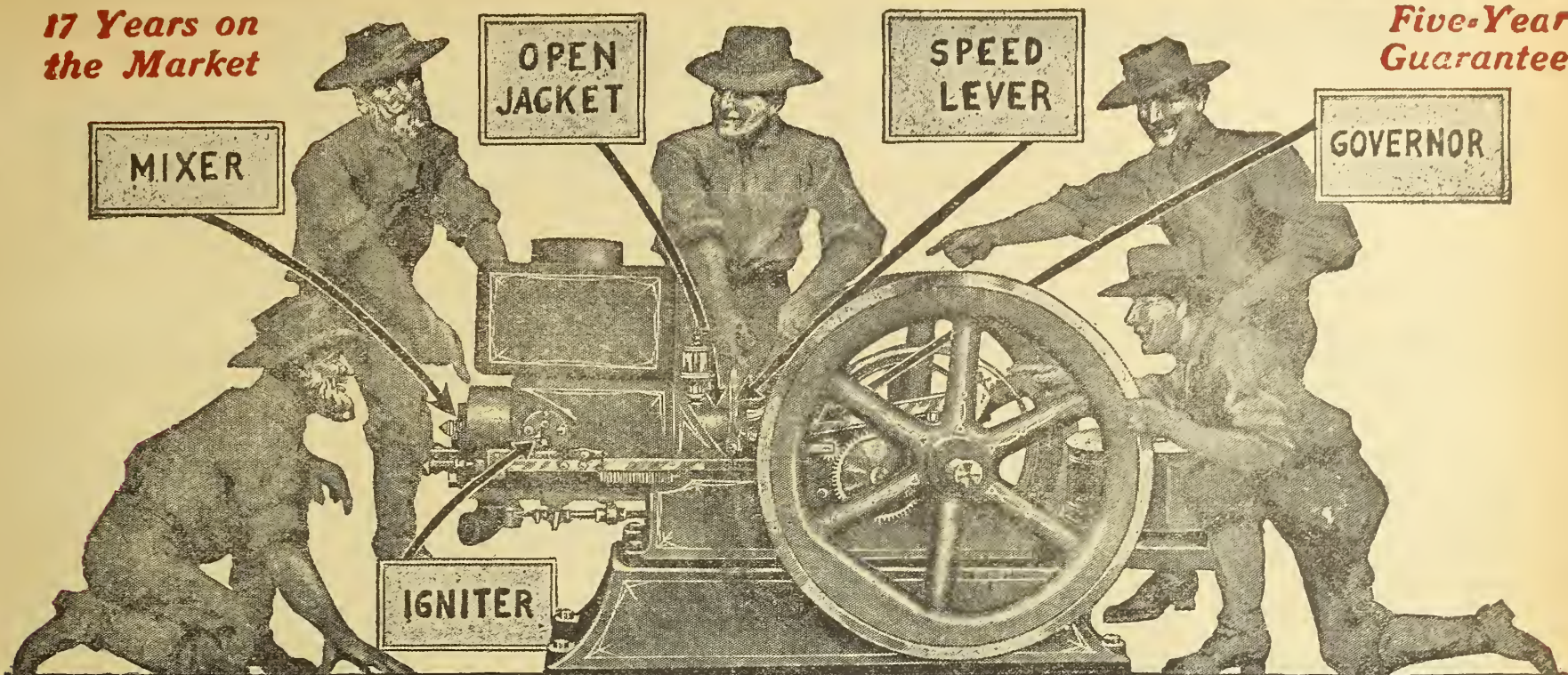


HIGH TESTING SEED CORN means large yielding corn crops. But how are you to know what seed will test high—no time to test it now—planting time's too near. Fifty years of breeding experience is back of W. W. Vansant's Seed Corn—that's a guarantee that makes you safe. See Advertisement on Page 18

When Writing to Advertisers Please Mention This Paper

**17 Years on
the Market**

**Five-Year
Guarantee**



Waterloo Boy Gasoline Engines have all the Good Points that go into any Gasoline Engine!

Superior points of their construction are the open jacket, speed lever, governor, mixer and igniter. Our catalog describes these points fully.

WATERLOO BOY ENGINES are practical and reliable. They have few working parts, are so simple that anybody can run them, extremely economical in use of fuel, develop greater horse power than rated.

WATERLOO BOY ENGINES can be started when thermometer is twenty degrees below zero nearly as easy as in July.

WATERLOO BOY ENGINES are backed up by an iron-clad five-year guarantee.

Waterloo Boy Engines are placed in your hands for an unqualified thirty-day free trial. If they don't suit you, you don't need to keep them. It will cost you nothing for the trial.

These are some of the reasons why the **Waterloo Boy Engines** are the best for farm use.

Implement Dealer or Catalog House, Which?

Best Service

You are thinking of buying a gasoline engine. You want to buy where you can get the best service, fairest treatment, best goods, for the least money.

We sell **Waterloo Boy Engines** through Implement Dealers. Every one of our Implement Dealers is our personal representative on the ground. His business is to see that you get a perfect engine, best service, fairest treatment. He is there to help you get the engine started and to see that it works right not only for thirty days after you buy it, but as long as you keep it. If the engine doesn't suit you after you have tried it he will take it back. If it suits you, **we guarantee it for five long years.**

Isn't it worth something to take the engine home the day you buy it? Have your dealer set it up and help you run it and look after it for you? Isn't it worth something to get your repairs from your dealer at the time you need them? Isn't it worth something to keep your money in your

pocket until you are satisfied with the engine? Can you get better service or fairer treatment anywhere else?

Factory Behind the Dealer

Behind our Implement Dealers stands our factory with its capital of \$200,000, with its reputation of seventeen years' standing and with its five-year guarantee.

We have a factory big enough to build 100 engines a day or 30,000 a year. We do not spend a dollar for the expense of traveling salesmen. We divide our profits with you. Our Implement Dealers are simply our representatives. We name them a price that makes it possible for them to sell a high-grade satisfactory engine at an exceptionally low price. We put our dealers in position to sell you a **Waterloo Boy Engine** at nearly the same price that you would have to pay a Mail Order House for an engine that may not be nearly so good.

You and all your friends know who makes **Wa-**

terloo Boy Engines. Few people know who makes the gasoline engines the Mail Order Houses sell.

Isn't it worth something to know who makes the gasoline engine you expect to buy? Isn't it worth something to know that behind that gasoline engine stands the factory that made it with its reputation to maintain and with its iron-clad guarantee? Isn't it worth something to you to know that even 20 years after you have bought the engine you can get repairs through your local dealer? Isn't it worth something to buy a strictly high-grade **Waterloo Boy Engine** at an exceptionally low price, and have a man on the ground who is your friend, to look after your interests in dealing with the Company from which you buy your gasoline engine?

When we urge you to buy a **Waterloo Boy Engine** through our Implement Dealer we are seeking your best good

If you want the best service, fairest treatment, best goods at the lowest price, write today for our gasoline engine catalog.

WATERLOO GASOLINE ENGINE COMPANY, 179 3d Ave., WATERLOO, IOWA.

LIVE STOCK RECEIPTS FALL OFF.

One contributing cause to the high price of meat, according to a report of the department of commerce and labor is the fact that live stock receipts for 1909 at seven leading interior markets of the United States were the lowest since 1904.

The total live stock receipts for 1909 in these markets aggregated 39,545,725 head.

Particularly did the receipts of hogs for the last year fall off. For each of the four years previous to 1909 the hog receipts had been excess of 19,000,000 head, totaling more than 22,-

000,000 in 1908, falling to 18,834,641 last year.

Cattle receipts in these markets for 1909—9,189,312—while comparing favorably with those of the previous year, fell below the totals for the three years before 1908. Sheep fell below those in 1905 and to 1907 but compared favorably with 1908.

Receipts of hogs at the Chicago market for 1909 show a decrease of 1,627,074 as compared with the year before, or a decline of 19 per cent; receipts at Kansas City decreased 17 per cent, receipts at Omaha 12 per cent at St. Joseph, Mo., 28 per cent,

while the decline at St. Louis was only 4 per cent.

While the total number of cattle receipts at these seven principal markets was larger than the year before, the 1909 cattle receipts at Chicago—2,929,805 head—fell below the 3,000,000 mark for the first time since 1902, constituting less than 32 per cent of the total for the seven primary markets, as contrasted with 36 per cent, the average proportion for the preceding five years.

The annual aggregate shipments of packing house products from Chicago—2,151,663,713 pounds—were below

those reached for any of the previous five years, says the report.

All the items in the grand total, with the exception of pickled beef and pork, show large declines as compared with the figures for the previous years. The largest losses since 1905 appear under the head of canned meats, the loss amounting to about 70 per cent, and of lard, the shipments of which declined about 33 per cent since that year.

The report also shows that grain receipts at fifteen of the principal markets during 1909 were 744,624,068 bushels, which was lower than for any year since 1904.

The Acceptable Jersey Type

Perhaps no class of cattle breeders are possessed of more divergent ideals than are those men who are breeding Jerseys. One group is enthusiastically supporting the refined and delicate type and another is as fervently backing up the stronger and larger animals. We have asked representatives of both classes to express their views upon this important subject. These follow:

GEOGE MARTIN, Lafayette county, Wis.:—I think there is a wide-spreading difference of opinion as to the most useful type of Jersey. The Island type seems to be quite a fad just at present, although a great many breeders pay very little attention to them, and breed for a little more size and stronger constitution. Of course, we do not want anything big and rough. We are not raising Jerseys to see how much hardship they can endure, but are breeding to produce, and I think if the Island cattle are larger producers, that is the kind we want.

J. Q. EMERY, Dane county, Wis.:—You submit the following question: "What, in your opinion, is the true and most useful type of a Jersey?" In answering your question, I have no hesitancy in saying that, in my opinion, the show-ring type is not the true and most useful type of Jersey or of any other dairy cow. It is notorious that the show-ring winners are not the great producing cows of the Jersey breed or of any other dairy breed. The successes of the show ring partake too much of the characteristics of the successes of the lottery to be taken as the true and useful type of the Jersey or any other dairy breed.

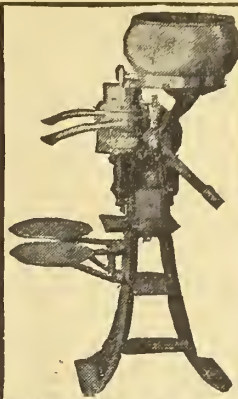
There is a variety of types of Jersey cows, concerning which it would probably be too much to say that any one of them is the true and most useful type, but the beefy type is not included in this variety. Neither will the extremes of coarseness or of refinement be found in this group of types. The true and useful types of Jerseys will be found to be a well-balanced medium between these two, and they will all be possessed of outstanding constitutional vigor. One of these types is well exemplified by Loretta D., the champion cow for

for myself I would rather have the refined Island type, which some might term too delicate, but with me they are the most economical butter producers as a rule, and the most persistent in reproducing themselves. I fail to recall where any of our great cows with enormous records of butter fat have reproduced themselves, and I do know where a son of one of our greatest Jersey cows, as to production of butter, was used in a good herd and produced the most inferior specimen of the Jersey breed I ever saw in a herd of any merit.

If any beginner will select the best of the refined Island type and breeding and give them the care that good dairy cows of any breed should have, he will wake up some morning and find himself on the road to success. The Jersey cow is the real mortgage lifter when properly cared for.

E. E. WYATT, Monroe county, Wis.:—While I have a very decided Jersey type in my mind, I do not know that I can really express it in clear terms. I must say that my ideal is not the small one, neither is it the large overgrown one. I am not one of those middle-of-the-road cusses, either. A cow, if she must work, and that she must, should have all the size it is possible to give her by judicious care and sensible feeding. She must carry that dairy type necessary and all parts must blend together harmoniously, making a cow of good size, capable of caring for a goodly quantity of feed and manufacturing the finished product for which the cow is kept without taxing her constitution beyond the limit.

C. H. ECKLES, University of Missouri:—Upon the subject of Jersey type, as far as breeders are concerned, there is great



THE Business Man's CREAM SEPARATOR

The DE LAVAL is the BUSINESS MAN'S Cream Separator, and the men who use cream separators AS A BUSINESS use the DE LAVAL. Ten years ago there were a dozen different makes of creamery or factory separators in use. Today over 98 per cent of the world's creameries use DE LAVAL separators alone, and no effort is longer made to sell any other kind.

It means a difference of several thousand dollars a year whether a DE LAVAL or some other make of separator is used in a creamery, and users of factory separators have found that they either had to use DE LAVAL separators or get out of business. They could not meet competition otherwise. Thousands of other makes of separators have been thrown onto the scrap heap in consequence.

Exactly the same differences exist, on a smaller scale, in the use of FARM separators. But the farm user doesn't know it. Nine times out of ten he can't tell when he is wasting \$50, or \$100, a year in quantity and quality of product through the use of an inferior separator.

But every FARM user of a separator KNOWS that if it is absolutely necessary to use a DE LAVAL separator with the milk of a creamery it must PAY relatively well to do so on the farm. No amount of argument can get around that unanswerable conclusion.

THE DE LAVAL SEPARATOR CO.

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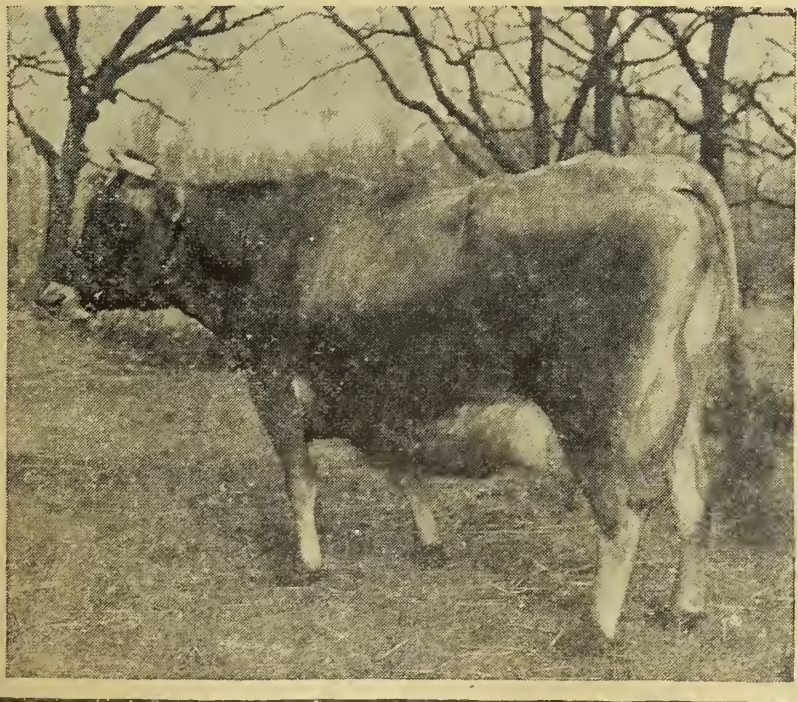
1018 WESTERN AVENUE
SEATTLE

our herd, no matter how well they score, if they are not good producers.

F. H. SCRIBNER, Fond du Lac county, Wis.:—The Good Book tells us "That every kingdom divided against itself is brought to desolation." It is not my intention to

a way that will be of the greatest good to the greatest number, and that in favor of the large producing type.

Our close rival sister breeds, the Guernsey and Holstein, seem to have a universal type, and recognize, which I believe to be a rightful recognition,



LORETTA D.,

Known for her accomplishments at the Louisiana Purchase Exposition in St. Louis.

profit in the world's Columbian dairy contest. Her picture may well be studied as one true and useful type of Jersey. The same may be said of Financial Countess, Rosaire's Olga 4th's Pride, and of Jacoha Irene. Neither one of these marvelous producers can be said to possess an extreme of the delicate and refined, but all are of the roomy sort.

W. S. DIXON, Fond du Lac county, Wis.:—As to which is the most useful type of Jerseys, I should suggest the medium, not the extremely coarse or fine. As

difference of opinion. Each man thinks his type is the only one and anything that might be said along this line by a man in my position might be misconstrued. In general, I might say that we breed Jersey cattle, as well as other dairy cattle, entirely for production of milk and butter and we do not think it is to any great extent a matter of form. We do not reject cows from our herd if they do not have what the score card calls for as a perfect animal. If they produce the desired amount of milk and butter that is what we want. On the other hand, they do not remain in



FINANCIAL COUNTESS

As she appeared at the close of her record-breaking for one year—13,248 pounds of milk, 795 pounds of butter, 943 pounds of actual butter. Note rugged constitution and great capacity.

stir up any controversy that would work harm to the interests of the Jersey breed, which is recognized by everyone, everywhere, as one of the most economical of the dairy breeds.

'Tis a pity, 'tis true, that there seems to be two distinctive types of Jerseys—the so-called show-ring type, and the producing business type. This condition of things seems to exist only in this particular breed, a condition that, although now existing, will shortly be settled, and settled in

that strength and utility are inseparable.

Never did two such judges step into a show ring and give such general satisfaction as at the National Dairy Show at Milwaukee last October in the Guernsey and Holstein classes. I have reference to Messrs. Hope, of New Jersey, and Gillett, of Wisconsin. These men had a distinctive type in mind and stuck to the text like a good Congregationalist. The fellow that was unfortunate enough

to hold one of the smaller, delicate type, knew well enough what he would get after the first two or three animals had been placed. These men are practical breeders and have proven time and again that the type they are working for is the type that wins out at the milk pail and churn.

The work done by Mr. Graves was just the reverse in the Jersey classes, giving the blue ribbons to the refined, delicate type, while the animal of strong constitution and large capacity of barrel and udder, which to the bystander seemed unquestionably to be the large producing kind, were left out of the race entirely. We rather expected different things from Mr. Graves, as the handling of the Jerseys at the great World's Fair at St. Louis fell into his hands, and he knew full well that only the strong type were the ones that saved the day for the Jersey breed.

The real object of pure-bred animals is, and will be for some time to come, to raise sires to help build up and improve the common and grade herds of the country. Such breeders and dairymen are, I think, without exception keeping cows for the profit there is in them. Dairymen are be-

animals that have something to them."

Jacoba Irene could scarcely win out in the show ring with the average Jersey judge because she has something of that coarseness, characteristic of American-bred Jerseys, but no one would question for a moment her wonderful ability to perform, and when we come to compare her with the score card, where could we find her lacking?

I recognize the fact that we must have a type, an ideal to work to, but it does not necessarily follow that because an animal has size and constitutional vigor she lacks in type. Three-fourths of the points of a dairy cow are on the body and udder, the machinery part of the animal, that which shows her productive powers, and this, to my notion, constitutes a good Jersey cow and the kind that suits 95 per cent of the dairymen of the country. To which shall we cater, to the 5 per cent that keep cows for their beauty, or the 95 per cent that keep them for their productive qualities?

It is well for both landlord and tenant to have everything in the lease in black and white. This prevents



JERSEY COW, DOUBLE TIME,

Whose breeder aimed not only to produce cows that gave plenty of milk and butter, but to increase the size of them as well. Some of his cows weighed over 1,200 pounds when in milking condition.

ginning to learn and recognize the fact that constitution and large capacity are important factors in economic production. To be sure, many a little cow has made a big record, and many a little horse has drawn a big load, but how much easier for the animal with greater strength and development.

The type of Jersey that is usually shown at our fairs is really not a good advertisement for the breed, and the remarks we hear from the ring-side are a just criticism, "Too small, too delicate, and too refined; we want

misunderstanding and trouble. It is better to have a point covered in the lease that never arises than to leave a point out that becomes all important before the term of lease expires. Put it all in.

RECEIVER'S SALE The entire Creamery Plant, including the machinery, building and grounds known as the Lone Tree Creamery, Brown County, Minnesota, will be sold by the undersigned receiver at a private sale within the next thirty days. Equipment first class and in clean running order, located in one of the richest farming sections of Southern Minnesota. Address all communications to J. C. Jackson, Receiver, Morgan, Minn.

Will You Spend a Penny to Find Out About Milk Cans That Last Twice as Long?

We have a mighty interesting story to tell users of milk cans. You are interested—it concerns your pocket book. It is a story of money saving for every man who uses milk cans. It will cost you just one penny for a postal to write and give us a chance to tell you about the milk cans that stand rough handling—cans that railroad brakemen and draymen cannot bang up—cans that last more than twice as long as ordinary milk cans.

THE CREAM CITY LINE Atlas Can

The "Atlas" is the most substantial, the most sanitary and the longest-lived milk can ever manufactured. We have succeeded in making that kind of can without any great increase in weight, and without material change in price. Better can steel, better distribution of weight, better making—that's the secret of Atlas superiority and the superiority of the entire Cream City line of milk cans. We are more particular about the body of our milk cans than most manufacturers. We do not use light steel for the body and then make up weight by using hoops that are away out of proportion. We put strong, heavy can steel where it is needed, so the can will have a chance for its life when the can-smasher gets hold of it.

We positively guarantee the Atlas Can to have better materials, better distribution of weight, greater strength, to be... sanitary and to outlast any other milk can manufactured. Do you find your milk can expense a continual drain on your profits? Then write for our book and see how you can more than cut that expense in two. Don't forget that we make the famous Cream City Dairymaid Milk Pail, and Galvanized Water and Stock Pails. All books free. Address **FEUDER, PAESCHKE & FREY COMPANY, 55 15th Street, Milwaukee, Wis.**



THE ONLY QUALITY SEPARATOR BUILT!

We can prove to you that the IOWA DAIRY SEPARATOR is positively the best separator made—that it stands in a class by itself—that there is as much difference between it and other separators as there is between silk goods and cotton goods, or between day and night:

THE IOWA IS ABSOLUTELY THE CLOSEST SKIMMER

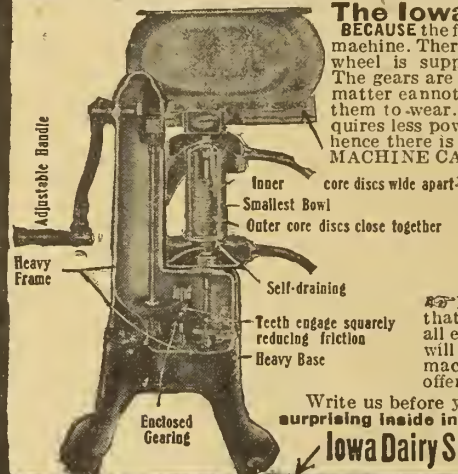
BECAUSE the double core gives a larger skimming surface in our small bowl than in the big bowl on any other machine. The discs on the inner core are wide apart, giving a free and open passage for the thick cream. In the outer part of the bowl, where the last particles of butter fat are skimmed, the discs are close together, dividing the milk in very thin layers, thus giving the largest possible skimming surface. WE SELL YOU THE IOWA SEPARATOR ON A POSITIVE GUARANTEE THAT IT IS THE CLOSEST SKIMMER MONEY CAN BUY.

THE IOWA SEPARATOR IS THE LIGHTEST RUNNING MACHINE

BECAUSE it has the lightest bowl of equal skimming capacity of any machine, and you know it takes less power to keep 3 lbs. in motion than 6 lbs. Our gearing is so arranged that it does away with the old worm principle used on other separators. Note the slant given the wheel which drives the bowl. This eliminates the friction of the old style worm wheel. Each bearing has a reservoir of oil, in which no dust or dirt can collect. This is different from any oiling system used in any other separator. THE IOWA MACHINE HAS PROVEN IN ALL EXPERIMENT STATION TESTS TO BE THE EASIEST RUNNING MACHINE MADE.

THE IOWA IS EASIEST AND QUICKEST CLEANED

BECAUSE it is the only machine in which the skimming device can be washed by centrifugal force. The washing is done by simply running water through the bowl. It has a self-draining bowl and all milk drains out of it at the end of the run. The skimming device consists of only two pieces. The heaviest piece a woman has to lift in washing this machine weighs only 3 lbs., while in other machines she has to lift from 10 to 15 lbs. THE IOWA SEPARATOR IS CLEANED IN JUST ONE-HALF THE TIME IT TAKES TO CLEAN ANY OTHER MACHINE.



The Iowa is the most durable.

BECAUSE the frame is heavier than that of any other machine. There are no overhanging bearings, every wheel is supported by a bearing on each side. The gears are tightly enclosed so that dust or other matter cannot get to them to clog them and cause them to wear. The IOWA bowl being lighter, requires less power to maintain its proper speed and hence there is less wear on the gears. NO OTHER MACHINE CAN LAST SO LONG BECAUSE NO OTHER MACHINE CONTAINS THE ABOVE FEATURES.

We have the largest separator factory in the world and it is a fact that you cannot buy a separator anywhere at any price that will equal the IOWA in all the above points.

If you can find any other separator that will skim to its rated capacity under all conditions as closely as the IOWA, we will make you a present of one of our machines. There are no strings to this offer and it is not limited in any way.

Write us before you buy and we will give you some surprising inside information on separators.

Iowa Dairy Separator Co. 113 Bridge St. Waterloo, Iowa.

Which One Will You Test on Your Farm for Ninety Days? Freight Prepaid

Which will you try, 30 Days' Free or 90 Days' Approval Test?

Any capacity from 200 to 950 pounds per hour, according to your needs, and I'll save you from \$25.00 to \$50.00 on the price.

The only Separator whose gearing runs in a "Bath of Oil" like a \$5,000 automobile—Feature worth \$50.00 alone.

Automatically oils itself—Pour oil at the top, once a month from your oil jug or can—No danger of running dry, or ruining it like others—No oil cups to remember to fill or run up twice a day.

Dust-proof—Danger-proof—All gears enclosed—simple but standard built and absolutely dependable.

GALLOWAY'S New "Bath in Oil"

HIGH GRADE STANDARD CREAM SEPARATORS

Has the only revolving supply tank—worth \$15.00 alone.

Easiest to clean and the few parts come out easy and can't get back out of place.

Easiest to run—high crank—low tank. With no high lifting and no "back-breaking" cranking.

Gets the finest quality cream and all of it—no lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down.

Skims closest in any climate or season, no matter whether your milk is warm or cold.

Is as handsome a machine, compact and substantial, as you ever saw or could find. Beautiful finish.



Only \$33.50 and Up

I'll Save You \$25 to \$50

Let me send you my Big New Separator Book—post paid—Free, so you and your wife and the boys and girls can talk it over and then try one of my separators under my easy plan for you to do it. You'll call it the best if you test it alongside any of the highest priced \$85.00 and \$110.00 separators sold by anybody today—makers—catalog houses—dealers—jobbers or anybody else. Write me today.

Wm. Galloway, Pres. WM. GALLOWAY COMPANY 103 Galloway Sta., Waterloo, Ia.

Blacklegoids

Simplest, Safest, Surest Vaccination for the prevention of

BLACKLEG IN CATTLE

NO DOSE TO MEASURE. NO LIQUID TO SPILL. NO STRING TO ROT.

Just a little pill to be placed under the skin of the animal by a single thrust of the instrument. You cannot afford to let your cattle die of blackleg when a few dollars spent on Blacklegoids will save them. Write for circular.

PARKE, DAVIS & COMPANY
HOME OFFICES AND LABORATORIES, DETROIT, MICH.
NOTICE.—For a limited time we will give to any stockman an injector free with his first purchase of 100 vaccinations.

DAIRYMEN

TAKE a look at the **Strite Governor Pulley**. It's the original and "only thing" for driving cream separators with gasoline engines. Once tried, always used. TRY ONE. Ask your dealer for a "STRITE" or write us direct. Don't take an imitation. **STRITE GOVERNOR PULLEY CO., 227 South 3d St., Minneapolis, Minn.**

SILOS

EARLY BUYERS SAVE MONEY EARN IT COST BEFORE PAID

HOW? **KALAMAZOO TANK CO. & SICO MICHIGAN**

HINTS·SUGGESTIONS·DEVICES

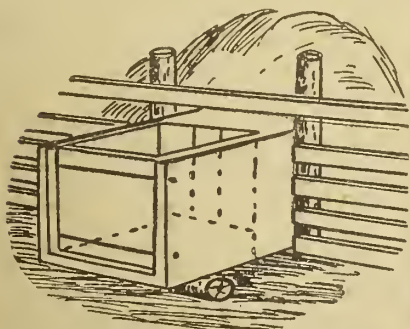
WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A Mail Flag.

The accompanying sketch shows a device that can easily be constructed and which will let people that live quite a distance from their mail boxes know whether the carrier has left any mail for them or not. Fix the device as shown in the sketch. Then bolt a block to the lid of the mailbox to keep the weight from slipping off at the front. This weight should be fastened to the rope that hoists the flag. Now, when the lid of the box is raised, the weight slips off and raises the flag. If the carrier is told of this, he can easily hold the weight from slipping when he takes letters from the box and leaves no mail, and most of them will be willing to do you this small favor. The person who lives some distance from his mail box really never

appreciates the value of a device like this until after it is put in use. During the year lots of time is wasted and miles of ground covered simply going to and coming from the mail box, while this little flag will do all that work for you if it is erected according to the specifications here given. If necessary it can be run up ten or fifteen feet above the mail box, but the height of it depends on how difficult it is to see from the house.

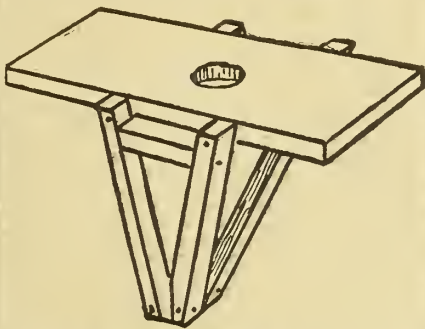
I think I have hit upon a scheme that will almost take the place of a tank heater. My stock tank is made about 12 feet long, 3½ feet wide and about 30 inches deep. It projects through the fence with a place about 2x3 feet for them to drink out of. This opening I have boxed up to within an inch of the bottom of the tank and all but the opening is well covered with litter. This tank is pumped full of water with a gasoline engine and by reason of the small part of the water



which is exposed there is little freezing, and that part not exposed never froze during the coldest days of this winter. I like this plan very well and if I had any other kind of a stock tank I would fix the drinking place in the same way. I have no lid to cover this part of the tank, and do not believe one is needed, but one can be put on if desired. The dotted lines show how the boxing is put in and how it looks from the inside of the drinking place.

I have been a close observer of your illustrations of handy devices and among other things I have seen was a milking stool made with one leg.

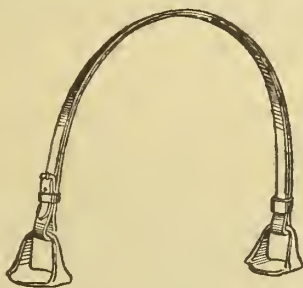
Now that particular stool seems to fill the bill very well; in fact, there is no earthly use for more than one leg to a milking stool. It seems to be difficult for some people to see this. The one-legged stool will enable the milker to lean away or toward the cow as she steps about, which is sometimes the case. And then on a hillside or un-



even place the one-legged stool will perform its work where others will fail. I have made a number of milking stools out of some old barbed wire spools I had lying about the place. I sawed off one end of the spools, assembled the four pieces of material which held the two ends, as shown in the illustration, and I had a nice, light, efficient stool. It was handy for milking cows and was never brought into use when one had a desire to strike a cow, for he very well knew he would break it if he struck a cow.

A Simple Saddle.

This sketch shows a simple saddle which comes mighty handy where

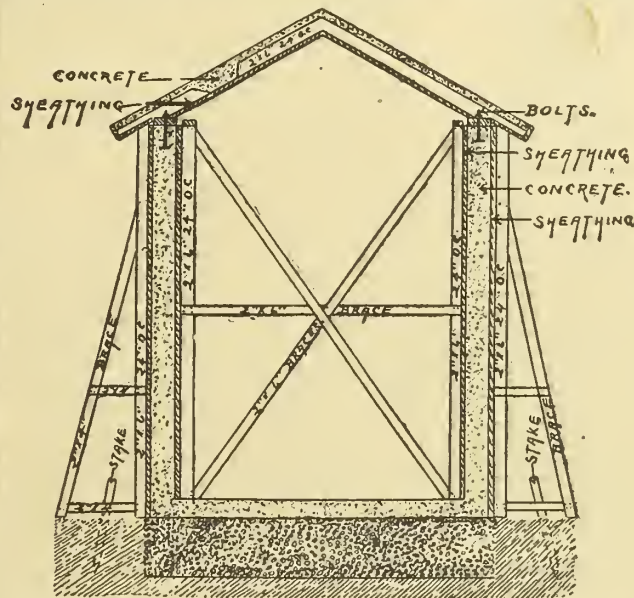


there is no other saddle. Simply buckle a pair of stirrups to a strap, put a blanket on the horse, throw the strap

with the stirrups over this and get into the saddle. Try it. It beats riding bare backed by far.

A Cement Storage Tank.

A subscriber, of Waterloo, Iowa, asks for advice in building concrete storage tanks, and we herewith publish a plan. The illustration is a cross section, showing the manner of building and bracing the forms. In describing this tank our architect says it is much better for the farmer who is not a mechanic, to build the square tank, as it is rather bothersome for an amateur to cut the forms for a round tank. The tank as illustrated, is 6x6 feet square and 10 feet high, will contain 85 barrels of 31½ gallons. The concrete walls are 8 inches thick. Reinforcement of such a tank is possible in several ways, only two of which we mention, namely, the woven wire, and the plain rods. If the rods are used they should be ¾-inch in diameter, placed not farther apart than 14 inches, and at the corners they should be bent to a right angle, and extend from the corner at least 18 inches, with the ends slightly



bent, to give a good bond. However, this architect prefers the wire for reinforcing, as it is much easier to use. While the plan herewith illustrated shows a roof of cinder concrete, of course any roof may be used. In this roof, the sheathing is nailed to the under side of the rafters, and concrete placed between the same, as shown. Nails or blocks are fastened to the sides of the rafters to keep the concrete from slipping down, and a board is nailed in the end of the rafters, extending two or more inches above the top edge. When dry, cover the top

with any good felt roofing. Stud up the gable ends, make your windows and doors, and plaster with Portland cement. The foundation should be excavated at least 30 inches deep, and filled in with broken stone or cinders, and the tank proper built above this. Cinders are used in the roof, because they are much lighter than gravel. Use a mixture for the walls, composed of one part cement, two parts sand and three parts clean gravel or broken stone. When dry, give the walls and floors a coat of cement plaster, composed of one part cement and two parts sand. For the roof, use one part cement, two parts sand and four parts screened cinders. This tank is not expensive and it will provide a cool place for the water. It will also last a lifetime.

KIDNEY WORM IN HOGS.

To the Editor of The Homestead:

When the hog breaks down in the back or begins to drag his hind parts about, you may be assured, if he has not been seriously injured by some accident, that his kidneys are affected.

And more than likely kidney worm is the trouble. First, separate the affected animal from the rest of the herd and feed him but little. Give plenty of water and bathe him with a mixture of turpentine, lard and kerosene across the kidneys. Heat with a hot iron so as to drive the remedy to the desired spot. Be careful not to get the flesh too hot so as to cause the animal greater suffering. Now take a small inch board about a foot long and six inches wide and lay it lengthwise over the kidneys of the hog and tap the board lightly for about five minutes. After a couple of treatments of this kind the hog will get well. Put a few drops of turpentine into the slops.

I have used the above treatment for a number of years and found it a very successful one when the kidneys were affected. It is a harmless remedy and it will pay the farmer with a hog down in the back to try it.

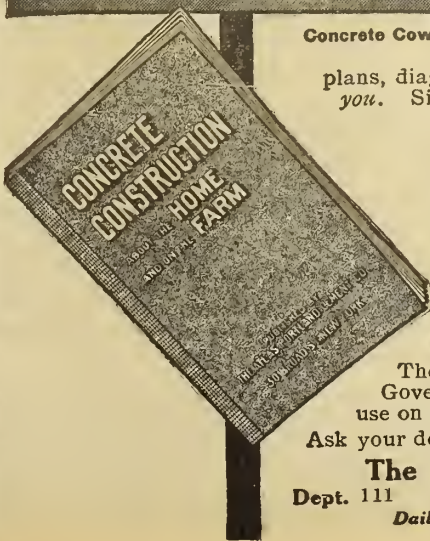
W. D. Neale.

Lewis' Single Binder straight 5c cigar. You pay 10c for cigars not so good.



Concrete Cow Stable

plans, diagrams and specifications. Write for this book today. It is free to you. Simply send your name and address.



This Book Tells How To Make and Use Concrete

Any farmer who reads our concrete book—"Concrete Construction About the Home and on the Farm"—will learn how to build many useful farm structures of concrete. This 168-page book gives directions for making concrete cellars, drinking troughs, piggeries, stables, silos, chicken-houses, fence-posts, barns and other outbuildings. It contains 150 pictures, with

ATLAS PORTLAND CEMENT

Makes The Best Concrete

When you read our book on concrete construction, you will learn why ATLAS makes the best concrete. The proof is there.

ATLAS Portland Cement is made of genuine Portland Cement rock. It contains no furnace slag. There is only one quality of ATLAS manufactured—the best that can be made and the same for everybody.

The largest buyer of ATLAS is the United States Government, which has ordered 4,500,000 barrels for use on the Panama Canal.

Ask your dealer for ATLAS. If he cannot supply you, write to

The ATLAS Portland CEMENT Co.

Dept. 111

30 Broad Street

New York

Daily Productive Capacity Over 50,000 Barrels—The Largest in the World

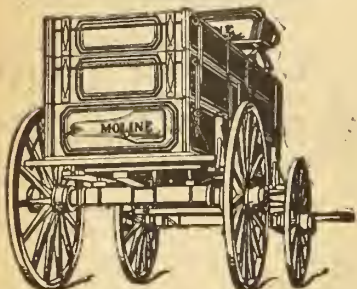


NONE JUST AS GOOD

A New Way of Building Farm Wagons

Every notable idea, every important step forward in farm wagon building, originated with the Moline Wagon Company. Moline Wagons have always been the strongest, most improved, and most durable. And now we have perfected a wagon that is in every way vastly superior to every wagon ever made—a wagon that surpasses the most perfect Moline of former years, with 14 important improvements—all new inventions, and used for the first time in the

JOHN DEERE MOLINE

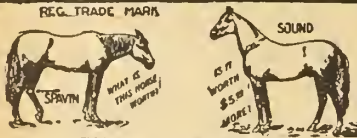


IRON-CLAD

It is made of the same iron-strengthened, weather-cured hickory and oak, which has made Moline Wagons famous for their durability—it is the same light-running wagon as of old—but, its strength and convenience is doubled. Service considered, it is the cheapest wagon you can buy. The expensive wagon is the one that costs a few dollars less now but needs repairs every few days and is all gone to pieces in a few years. If you need a wagon, speak to your dealer at once about the John Deere Moline Iron-Clad. There will be a demand for three times the number of wagons we can build during 1910. If you aren't even thinking of buying a new wagon now, write for our illustrated booklet. Post yourself on this remarkable wagon.

Moline Wagon Company
400 Third Avenue
Moline, Illinois

"SAVE THE HORSE" SPAVIN CURE.



WAR DEPARTMENT,
Office Purchasing Commissary U. S. Army,
Saint Louis, Mo., Nov. 17th, 1909.

Troy Chemical Co., Binghamton, N. Y.
I have great faith in your medicine. I cured a bad tendon on a horse which had been fired and seemed beyond all hope. I also cured a sprained tendon in another horse within two weeks.

CAPTAIN J. N. KILIAN, 3d & Olive Sts., Commissary U. S. Army.

FREEPORT FIRE DEPARTMENT

Troy Chemical Co., Binghamton, N. Y.

Freeport, L. I., Nov. 29, 1909. Enclosed check for bottle "Save-The-Horse." Every horseman around here thought horse was incurable, but don't think so now. Here is what I have done with "Save-The-Horse," and some of these cases were cured two and three years ago, as you know, and no cure to-day. In fact, I am not afraid to undertake any case without the guarantee.

The first case was a gray mare with bone spavin, over three years' standing. So lame everyone thought she would never go sound again. In six weeks' time she did not take a lame step. Let her to the Freeport Golf Club every week day.

The next case was a fine blooded horse with ringbone, belonging to a friend. In two months' time he did not take a lame step.

Also cured a Polo Pony who was hardly able to get out of the stable, both hind legs affected with the worst bone spavin I ever saw. Bought him for ten dollars, and everyone said I would have to saw off his legs and have new ones made. The whole hock was affected. He had been fired and blistered three times. I used "Save-The-Horse," and in ten weeks' time you would not know that he had ever been spavined, except for the marks of the firing iron. Have also cured a fine saddle horse of thoroughbred. Will be glad to see anyone regarding these cases. CARL DARENBERG.

\$5.00 a bottle, with legal written guarantee or contract. Send for copy, booklet & letters from business men & trainers on every kind of case. Permanently cures Spavin, Ringbone, Blisters (except low), Curb, Splint, Capped Hock, Windpuff, Shoe Boil, Injured Tendons & all Lameness. No loss of hair. Horse works as usual. Dealers or Express paid.

TROY CHEMICAL CO., 3 Commercial Ave., Binghamton, N.Y.

DEATH TO HEAVES

Coughs, Distemper, Indigestion
Guaranteed or Money Refunded
NEWTON'S



The Standard Veterinary Remedy
Makes the Horse Strong and Willing to Work.
CURES HEAVES BY CORRECTING THE CAUSE
which is Indigestion. Send for Booklet "Horse Troubles."

Explains fully about the Wind, Throat, Stomach and Blood. Newton's is safe for colic, adult or mare in foal.

A GRAND CONDITIONER AND WORM EXPELLER
\$1 a can at dealers or express prepaid.

THE NEWTON REMEDY CO., Toledo, Ohio

A. S. ALEXANDER, V. S.
MADISON, WIS.

Veterinary Editor The Homestead.
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PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

AILING COW.

I have a dark red cow, five years old, that got her jaw broken a year and a half ago. She was neglected and nothing was done for it and about two months later a lump formed and pus broke out and it has done that way about every six weeks. Some say it has run into lump jaw. Can lump jaw come from such a cause? The lump is hard and right on the jaw, somewhat underneath. The place that breaks is about the size of a dime right in the center and there is a red knot there that looks something like a strawberry. I think she is in calf, and has raised a good calf this year although quite poor. Her hair always looks rough and her eyes are of a somewhat yellowish red color. We are twenty-five miles from a veterinarian and wish to know what you would suggest. The lump is about the size of a large goose egg. Can she raise a healthy calf?

Any wound becoming invaded by the fungous spores of actinomycosis may develop "lumpy jaw." This may have happened in the case of your cow, or there may be diseased bone present at the seat of the old injury. We would advise opening the part freely and then swabbing with sulphuric acid and repeating the treatment as required. As she is thin and thrifty she may have tuberculosis, and in that case the calf will be likely to be small and weak or die at birth from "calf cholera." If possible have her tested with tuberculin.

SWEATING IN STABLE.

I have a black mare eight years old that will break out and sweat while standing in the barn eating. She is in good flesh and eats well and when I turn her out she seems to feel all right. Her hair is long and looks badly. I feed her corn twice a day, have good hay in the barn and they have flax straw to run to through the day. I put her in the barn every night and the barn is well ventilated and without draft. I have done nothing for this

mare but feed her stock food. She has had these sweating spells about two weeks. She is in foal, but will not foal till September. I would be glad to know what to do for her.

Feed oats and bran in place of corn and have her clipped from knees and hocks up to body and along belly to line with breeching strap and strap of breast collar. No medicine should be required. Let her take plenty of outdoor exercise every day and give her a box stall when in stable.

ABSCCESS.

Last September a lump started on the right side of my nine-year-old bay horse, just above the flank. He was working every day. In the mornings the lump was larger than at night and continued getting larger each day until in about three weeks it was as large as a common-sized wash basin. This was opened by a veterinarian and quite an amount of pus was taken. This veterinarian kept it well washed out for one week and then I turned the horse out without treatment for two weeks. Then he was taken care of in the same way for one week. This abscess was opened at bottom inside flank, also top, so as to wash thoroughly. He then ran loose until January 1st without treatment. This matured freely and the lump went away. There is a large cavity between bowels and muscles of leg. The veterinarian gave me a wash, also a medicine to inject to burn this lining, but the disease does not yield to any of the treatments. The horse is not lame nor off feed. I do not know the cause of lump or disease. Please advise me and name disease.

Such abscesses often follow tapping for wind colic. They may also come from a bruise or from puncture by a foreign body. The veterinarian should make sure that there is no foreign body, such as a sliver in the abscess. Then cleanse and dry thoroughly for four or five successive days by packing with antiseptic gauze and when the cavity is clean and dry fill it with melted vaseline containing one

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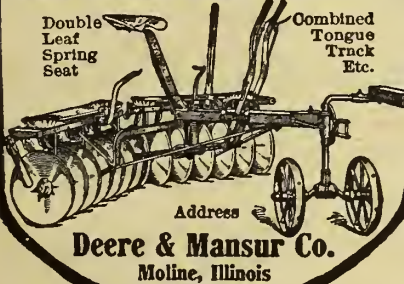
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CALVES DYING.

I purchased forty head of calves in Kansas City in September, brought them home and put them on pasture and when the cold weather and snow came I began feeding them hay and lost several calves. Then I changed feed; began feeding oat straw, and lost several more. I called on a veterinarian and he said they needed change of feed. He opened one and found in its fourth stomach two hard, dry balls about the size of hen's eggs. I then began feeding corn fodder with the corn and I am still losing them. Have already lost seventeen altogether. What do you think about them? Any information you can give will be greatly appreciated.

Nothing in your statement gives a clue to the cause of deaths and at once you should have a competent veterinarian make an examination. Had you described the symptoms shown by the calves when taken ill we might have been able to give a confident opinion.

LAMENESS.

I have a four-year-old, thoroughbred horse that hurt his left front foot last November, on the track. I supposed at the time that he spread his hoof, as the shoe was spread. He was very lame for three or four weeks. I shod him with bar shoe and poulticed his foot, but he is a little lame yet and the hoof seems to have inflammation in it, as it is hot and the other one cold. What is the best thing to do with him? Would you fire his hoof?

Soak the foot in cold water for an hour or two twice a day and at the end of two weeks clip the hair from the hoof-head and blister with cerate of cantharides or other effective blistering ointment. We would not fire the part unless a ringbone is the cause of lameness.

LAME SOW.

I have a thoroughbred Poland China sow almost two years old that became lame in one of her front feet three days ago. The next day she seemed stiff all over and her appetite was poor. I gave her a good dose of a good condition powder which caused her bowels to act well. Yesterday she was unable to get up and seemed in great agony and would eat nothing. She has been suckling her second litter of pigs which are two months old and I took them from her and put her in a warm, dry shed and drenched her with Epsom salts, one ounce, Fowler's solution, twenty drops and a dose of kidney medicine and a hot liniment that I use, and she seemed easier in a short time. I have repeated the dose this morning. She seems better, but will not eat. She has been fed on corn and slop from the kitchen with milk, and part of the time shorts added, and has been in a pasture most of the time. Her house has not been as dry as I liked, so I moved her to a drier bed about a week ago. She is looking well. Please give me your opinion and treatment.

Rheumatism may be suspected and we would give fifteen grains of aspirin three times a day and rub the liniment on the shoulder. Feed light slop of milk and middlings and in it give limewater once a day. Provide a dry, comfortable bed.

ABORTION.

I would like to have some information about my mares losing their colts. There have been so many around here that have lost colts without any known cause. I had one last week that lost her colt. She was due to foal the 9th of March. I have been keeping her up at night and feeding corn and nice oat straw and letting her run out on clover stubble and stalk fields in the daytime. She is fifteen years old and has been well treated all winter and I am quite sure was not hurt in any way. Will there be any danger in her doing the same next year if I breed her again?

Abortion may be induced by any one of a large number of different causes and may also be a contagious disease like that so commonly affecting cows, but without an investigation we cannot say what is the particular cause in your case. We suspect, however, that the trouble has come from pasturing stalk fields and clover stubble where may be found things that would be likely to produce abortion. We refer particularly to moldy foods. The accident is liable to recur; still we would advise having her bred, after due cleansing of the vagina, as for leucorrhea, so often prescribed for here.

LEUCORRHEA—RUPTURE.

(1) I have a mare that raised a colt last season. She has run down in flesh ever since and seems to feel dull. Her legs and tail are covered with stuff from her and she is continually making water. I am a long way from a veterinarian, but suppose it is inflammation of the womb. What is the best thing to give her? (2) I have a four-

year-old draft mare that has a breach on her side about where the tug of harness would come. She is in foal. Do you think there is any extra danger in her foaling by being breached? The breach is as large as a two-quart jar.

(1) Once a day flush out vagina with half a gallon of lukewarm 1 per cent of permanganate of potash and then change to a similar solution of coal-tar disinfectant for another ten days and then to a solution of one ounce of hyposulphite of soda per quart of warm water. Alternate these solutions of periods of ten days each until the discharge ceases. Give them by means of a large syringe or clean hose and funnel. In feed night and morning mix one dram of dried sulphate of iron and two drams of powdered nux vomica. (2) The rupture will be very likely to enlarge during the strain of foaling. At that time put a wide bandage around body at ruptured part to help keep the bowel back.

VOMITING.

I have a young cow that dropped her second calf about two months ago and seemed to be all right, but did not give much milk. About a month ago she commenced to act sick. She would not eat and would stand and moan. Then she got better for a few days and now she has taken sick again. She has an excessive flow of saliva and whenever she attempts to eat or drink she vomits and moans. It seems to pain her as soon as she gets something on her stomach. I have been feeding alfalfa, sugar cane and ground ear corn, mixed with oats and bran, about two parts meal to one part oats, and one part bran. I have never heard of a cow vomiting. Can you tell me what is the matter with her and prescribe treatment? I also have a heifer that was affected the same way, but she has recovered so that she eats some and does not slobber at the mouth. She was running in the corn stalks, but had access to the cane hay. Can it be from feeding the cane fodder?

Stop feeding cane and continue the other foods. See to it that all of the food is of first-class quality. Give her a full dose of Epsom salts as a physic. Follow with two drams of dilute hydrochloric acid in drinking water twice a day. If the vomiting is due to a foreign body having pierced the walls of the stomach there is no chance of recovery. It should be remembered, too, that such cases sometimes are due to tuberculosis.

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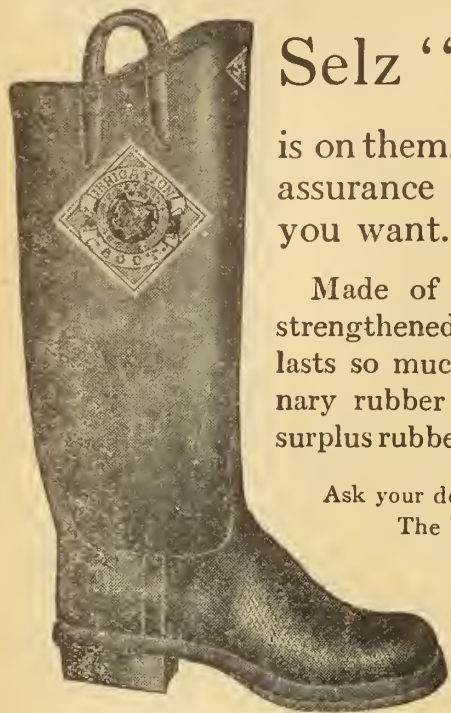
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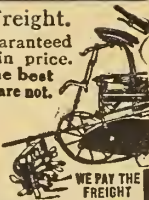
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The Condemnation of Education

By C. M. Fleischer,

Secretary National Association of Live Stock Breeders, Raisers and Shippers.

ONE of the daily exchanges reviews a book recently published by Mr. R. T. Crane, of Chicago, in which a broadside attack is made on education in general and on the kind of education that is especially emphasized at certain institutions.

Mr. Crane attacks the University of Wisconsin and states that it "defrauds the state," belittles the Illinois University, and that the universities and colleges are "curses" and the instructors are "swindlers." He complains that the students are not taught properly. Mr. Crane should learn that our farmers and breeders do not send their children to colleges to learn how to build bridges or make iron pipe, but to learn scientific agriculture and breeding and they learn it. If he would attend our great International Live Stock Show or our great state fairs he would see hundreds of these college students scoring points on animals. All of our fifty-odd agricultural colleges are teaching one of the grandest studies we have in this country and that is practical animal husbandry, in all its branches and

many, invented bovovaccine; Dr. Lorenz, Germany, was, we believe, the first one to use vaccine in swine plague; Dr. Bang, Copenhagen, Denmark, is the inventor of the great "Bang" system.

Our leading authorities who are posted recognize Dr. Peters now with Illinois Biological Laboratory, one of the greatest experts on hog cholera and swine plague; Professor Dietrich, University of Illinois; Dr. Schoenleber, University of Kansas; Professor Reynolds, University of Minnesota; Professor Craig, University of Indiana; Dr. Strange, Iowa Agricultural College, who are all experts in swine diseases. Dr. Ravenel, Wisconsin University, expert on tuberculosis; Professor Good, Kentucky Experiment Station, and Professor Coffey, Illinois University, experts on sheep diseases. In our great dairy cattle interests we have such noted men as Professor Scovel, Kentucky Experiment Station; Professor Van Pelt, Iowa University; Professor Fraser, Illinois University; Professor Willoughby, Georgia Experiment Station; Dr. Cary, Alabama Experiment Station; Professor Van Norman, Pennsylvania University, all of whom have world-wide reputations.

The above list would not be complete if we did not mention a few other prominent men who are today doing so much in these lines including Professor Curtiss, Iowa; Dr. Moore, Cornell; Dr. Glover, Colorado; Professor Mumford, Illinois; Dr. Maines, Nebraska; Dr. Butler, Missouri; Dr. Robert and Professor Moore, Mississippi; Dr. Dinwiddie, Arkansas; Dr. Dalrymple and Dr. Mills, Louisiana; Dr. Van Es, North Dakota; Gen. Charles Wood, Massachusetts (a fighter for pure milk) and Dr. Roberts, Wisconsin.

If space would permit we could fill columns with names of noted men, many living, other deceased, who have made names for themselves in this country in the scientific agricultural and animal husbandry lines.

If Mr. Crane desires to attack agricultural education why does he not go further and claim that all of our live stock shows, state and county fairs, farmers' institutes, live stock associations, the entire agricultural press, etc., are a "curse?" We are all working for the same object as our agricultural colleges.

We beg to inform Mr. Crane that we are not answering his attack to obtain free advertising, as we make no charges of any kind for joining our association. We have 100 leading live stock associations that have joined with us for mutual benefit, co-operation and education. We have over 100,000 members. We are conducting a propaganda to prevent and eradicate animal diseases and we are advocating the passing of strong state and territorial laws with liberal appropriations to stamp out these diseases.

We are favoring a just and reasonable immigration law—we need desirable immigrants to work and locate on our farms. We have during the year of 1909 advocated many suggestions to state fairs and live stock shows in behalf of our breeder exhibitor members and most of them have been adopted. We favor just and reasonable railway laws and we favor the proposed Senate Bill No. 5538 introduced by Senator Lodge in reference to transportation of live stock. We are opposing the increased postal rate on agricultural publications. Continually urging our members to raise more and better live stock and will advocate any reasonable subject for the promotion of the agricultural and live stock industry of the entire country.



C. M. FLEISCHER.

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Does Mr. Crane know that our annual loss to farmers and breeders and to our slaughterers from tuberculosis, in cattle and swine, hog cholera and plague, sheep scab, cattle ticks, anthrax, sheep ticks, abortion, lip and leg disease, black leg, navel ill, mange, foot rot, glanders, and many other domestic animal diseases, in connection with the losses from drouths, severe weather, coyotes, loss in shipping, etc., easily amounts to over \$100,000,000 annually? Thanks to our United States Department of Agriculture, the various agricultural colleges and to our great educational agricultural press we are each year decreasing this amount.

When Mr. Crane belittles our noted professors and doctors he evidently is not very well posted on our great men in the animal husbandry lines. He states a grammar school education is enough, but we doubt if the following gentlemen could have acquired their knowledge in a grammar school. The celebrated Dr. Koch, of Germany, in 1882, furnished us tuberculin; Dr. Von Behring, Ger-



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SAVE YOUR MEAT.

GROW YOUR OWN FENCE POSTS

Strong, healthy seedlings of true Hardy Catalpa—Catalpa Speciosa 100 for \$1.00 Postpaid, or 300 for \$2.50 by Prepaid Express. Safe arrival guaranteed. Seed 25c per oz. or \$2.00 per lb. postpaid. Special Prices on large lots of seed or seedlings.

HENRY FIELD SEED CO., Dept. 25 Shenandoah, Iowa.

HEAVES CURED! A remedy for lung, throat and wind troubles. Cures Heaves, Coughs, Dislemper and Indigestion. Veterinarians use and recommend.

PRUSSIAN HEAVE POWDERS

Druggists will get them. Price 50c at dealer, 60c by mail. Send for Free book.

PRUSSIAN REMEDY CO., ST. PAUL, MINN.

FARM WAGON COVERS

Farmers who have bought them say that they pay for themselves in less than a month. Every farmer needs a 6x12 Slipstream water-proof wagon cover. They only cost \$1.40. Write today. Peoria Tent & Awning Co., 119 Main Street, Peoria, Illinois.

When writing to advertisers please mention this paper.

GRINDING CORN FOR HOGS.

For the past nine years the Wisconsin Experiment Station has been conducting tests to determine whether grinding corn for hogs is desirable. In the tests previous to 1903-4 middlings were fed with the corn. That year corn was fed alone, but the results were so unsatisfactory as regards thrift, appetite, gains and feed consumed per pound of gain that it was not considered desirable to omit the middlings in subsequent years.

The results have varied a little from year to year, but considering the average of all the tests 117 hogs fed dry shelled corn and wheat middlings made an average gain of 96.8 pounds each, while an equal number fed corn meal and wheat middlings gained 110.9 pounds each, the feed required per pound of gain in the two cases being 5.19 pounds and 4.88 pounds. In other words, for each pound of gain the hogs fed shelled corn required 0.3 pound more grain than those fed the corn meal. The saving from grinding, therefore, has amounted to 5.7 per cent. Whether it will pay to grind corn in order to effect a saving will necessarily depend on two factors, namely, the price of corn, and the cost of grinding. When these two factors are known the possible saving from grinding corn for fattening hogs can be learned from the following:

Value of corn per bushel	cts.	cts.	cts.	cts.	cts.	cts.	cts.
45	50	55	60	65	70	75	
Amt. saved by grinding	2.5	2.8	3.1	3.4	3.7	3.9	4.2

When corn is worth only 25 cents per bushel the saving from grinding amounts to only 1.4 cents, not enough to pay for the grinding unless cheap power is available. As corn advances in price it will be noticed that the saving per bushel increases practically 0.3 of a cent with each 5 cents' advance in the price of corn. Should the price of corn be as high as 75 cents per bushel the saving by grinding would amount to a little over 4 cents per bushel.

CURING HOG MEAT IN BRINE.

To the Editor of The Homestead:

There are no doubt many farmers who prefer to cure their hog meat by putting it down in brine. Here is a plan that has been used very successfully, and I can recommend it to those who prefer to cure meat in this manner.

Into fifty gallons of water put twenty-five pounds of the best barrel salt. Add eight pounds of granulated sugar, two ounces of cayenne pepper, and two ounces of saltpeter. Boil until all impurities come to the top, then skim off. After cooling pour into wooden meat barrels. When meat is rid of all animal heat and has been trimmed to the desired sizes, put hams and shoulders into the bottom of the barrel of brine, with middlings on top, and weight down so that no meat projects above the brine. Let it stand for a couple of weeks, then remove the middlings, permitting the hams and shoulders to remain a few days longer, or until just right. If meat happens to be too salty, which can be ascertained by cooking a portion, put it into a barrel of fresh water for a couple of days. Take out and hang over a hickory wood fire until smoked. Then it may be put into sacks, after it has been wrapped in paper on which has been put a layer of paste made of flour and water into which is stirred a liberal supply of cayenne pepper. The joints may be hung to the rafters of the meat house until ready for use without danger of spoiling.

W. D. Neale.

Very many amateur motorists delight in always taking a hill on the high speed, not realizing that this often strains a motor or requires the car to go too fast upgrade over rough places that could be taken with less strain and slower on the intermediate speed.

There appeared in some parts of Indiana last season a small bug with variegated wings which destroyed thousands of potato bugs. A half dozen bugs will quickly kill 100 or more of the potato bugs on a single plant. Specimens have been sent to the government for examination.

Big Strong Calves

mean healthy, profitable herds.

You can't afford to let your calves be stunted with skim milk and slop diet. You can't afford to feed them your profits in the form of whole milk. And it isn't necessary. You can raise four calves on Sugarota Calf Meal at the cost of raising one on whole milk, and get better results. Sugarota Calf Meal is balanced and mixed to meet the actual needs of the growing calf. It has been tested out in actual use on our experimental farm and its value proven; it is always uniform, making a complete dependable ration, preventing constipation and insuring health, vigor and vitality. Sugarota Calf Meal positively contains no dope to stimulate or to create artificial conditions.

It is the Malted Milk for Calves

We guarantee results. Your money back if it does not satisfy. Ask your dealer for Sugarota Calf Meal. Write for our Booklet on Raising Calves Right. It costs only the postal card request, and it is filled with money-saving facts.

Sugarota

DAIRY AND LIVE STOCK FEEDS

are specialized, each for its particular purpose. In addition to Sugarota Calf Meal, our brands include Sugarota Dairy Feed, Sugarota Cattle Feed, Sugarota Horse Feed, Sugarota Swine Feed, Sugarota Sheep Feed, Sugarota Scratch Feed and Sugarota Chick Feed. Every separate brand is balanced for its special purpose, tested out on the animals for which it is made, and guaranteed to be better than any other feed, home-mixed or manufactured. Buy Sugarota Feeds from your dealer. If he doesn't handle them, write us and we will see that you get the feed, for trial on the money-back guarantee basis.

Ask for our Calf Feeding Booklet now.

NORTH-WEST MILLS CO.
519 W. Third Street
Winona, Minn.

SEE That Slot

That's WHY

FENN'S ADJUSTABLE

Post Hole Auger

Does Better Work

Look at its strong construction. No rivets to work loose—no castings to break. Can be adjusted to meet any soil conditions—dry, wet or stony. Handles larger gravel and digs full size hole all way down to bottom. We will

REFUND YOUR MONEY

if it does not do better work in a greater variety of soils than any other auger in the world. The only auger that is a practical success in all soils.

Adjusts to dig different size holes and goes through the toughest sod easier than a spade. Investigate this auger before you buy. Write for prices and name of dealer.

THE FENN MANUFACTURING CO., Box 12, CHARLOTTE, MICH.

WANTED—RIDER AGENTS

in each town and district to ride and exhibit a sample 1910 Model "Ranger" bicycle furnished by us. Our agents everywhere are making money fast. Write at once for full particulars and special offer.

NO MONEY REQUIRED until you receive and approve of your bicycle. We ship to anyone, anywhere in the U. S. without a cent deposit in advance, prepaid freight, and allow **TEN DAYS' FREE TRIAL** during which time you may ride the bicycle and put it to any test you wish. If you are then not perfectly satisfied or do not wish to keep the bicycle you may ship it back to us at our expense and you will not be out one cent.

LOW FACTORY PRICES We furnish the highest grade bicycles. It is possible to make middlemen's profits by buying direct of us and have the manufacturer's guarantee behind your bicycle. **DO NOT BUY** a bicycle or a pair of tires from anyone at any price until you receive our catalogues and learn our unheard of factory prices and remarkable special offer.

YOU WILL BE ASTONISHED when you receive our beautiful catalogue and study our superb models at the wonderful low prices we can make you. We sell the highest grade bicycles at lower prices than any other factory. We are satisfied with \$1.00 profit above factory cost. **BICYCLE DEALERS**, you can sell our bicycles under your own name plate at double our prices. Orders filled the day received.

SECOND HAND BICYCLES—a limited number taken in trade by our Chicago retail stores will be closed out at once, at \$3 to \$8 each. Descriptive bargain list mailed free.

TIRES, COASTER BRAKE rear wheels, inner tubes, lamps, cyclometers, parts, repairs and everything in the bicycle line at half usual prices. **DO NOT WAIT**—but write today for our Large Catalogue beautifully illustrated and containing a great fund of interesting matter and useful information. It only costs a postal to get everything. Write it now.

MEAD CYCLE CO. Dept. D184, CHICAGO, ILL.

ADVERTISING NOTES.

Seed Corn.

Messrs. Petty Bros., of Liberty, Mo., can fill your order for either yellow or white seed corn that tests 98 to 100 per cent fertile. This corn was grown on their own farms and is true to type. See page 16 for their advertisement and address.

A Cream Separator Scare.

The Vermont Farm Machinery Company have just written us advising that no credence need be given to the rumor in circulation that the United States separator had been sold to the International Harvester Company. The United States machine has been so satisfactory to the users and the demand for it has been so great that the manufacturers are devoting all their energies to the production of machines with which to supply the trade. It is stated that the rumor is due to the machinations of envious competitors. The United States is in the market to stay as long as there is a demand for perfect-running cream separators. Our friends who need something in this line will do well to get into correspondence with the Vermont Farm Machinery Company, Bellows Falls, Vt. See page 22.

The Atlas Calendar.

The calendar is a necessity in every home and office. The calendar of the Atlas Portland Cement Company is a practical one. It is a good, plain calendar giving all the information usually presented in a calendar, but in addition there is on each month's sheet some valuable advice concerning the use of cement, the building of concrete troughs and water troughs, chicken houses and farm buildings generally. It tells how and when and where to use concrete. It gives illustrations of dozens of different plans for the use of cement and concrete and shows the immense value of cement as a building material. This calendar, together with complete specifications as to the building of any of the buildings illustrated in it, will be sent free to anyone who writes for it to the Atlas Portland Cement Company, Dept. 111, 30 Broad St., New York City, N. Y., mentioning this paper. See advertisement on page 25.

Opportunities for Young Men.

As it not infrequently transpires that young men of the farm decide to devote their energies to other lines of business, it will be in order to call the attention of our friends to the advertisement of the Wenthe Railway Correspondence School, of Freeport, Ill., which appears on page 42. This school offers a course of study through which young men may equip themselves for many lucrative positions. The school is recognized by railroads of America as one which prepares brakemen, firemen, motormen or conductors in such a manner as to make them desirable and effective employees. So great is the demand for graduates of this school that the managers are able to guarantee positions to all graduates who are mentally and physically up to the requirements. It is stated as a fact that several railroads rely upon this school to supply them with trained men. Additional particulars concerning this school may be had by writing to the Wenthe Railway Correspondence School, Office 355, Freeport, Ill.

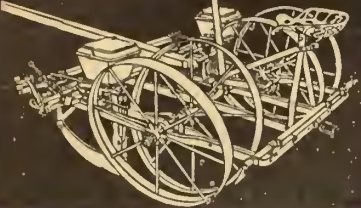
Working Out His Own Salvation.

There will be a natural deterioration of the soil no matter what methods of farming be employed. The farmer has at hand a method in some measure recuperating the exhaustion from the proper application of the manures of the farm by means of a modern and improved spreader. He may not only prevent any serious loss of the productivity of his land, but if correct systems of crop rotation are employed may actually improve its condition and value. As an implement which stands as a most improved feature in this work our readers are referred to the Great Western manure spreader. The Great Western is known as the original endless apron machine. The manufacturers advise us that more than 100,000 farmers use it. They have prepared a large art catalog which gives detailed information concerning the full line of Great Western spreaders. This may be had by writing a postal card request, asking for art catalog No. U-42, and addressing the inquiry to the Smith Manufacturing Company, 158 E. Harrison St., Chicago, Ill. See page 9.

Cheapening Crop Production.

In the case of most manufacturers profits are secured through more economical methods of production rather than from increased prices. The manufacturer succeeds best who, through the introduction of valuable and expensive mechanical aids, is able to produce his goods more cheaply than he who sticks to the old hand-made processes. The same principle applies to the business of farming in even a more marked degree. Conditions today make it obligatory for the farmer on the quarter section of land to confine his hired help to one man and oftentimes to do the whole work himself. This means that he must employ better and more effective machinery. For instance, with one of the most recently-perfected gang plows and four horses he may do a greater amount of plowing than two men and six horses with the old-style walking plow. The method of saving is applicable to practically all other lines of farmers' work. This saving in the aggregate amounts to a large item and, in fact, it may represent the entire profits of operating the farm. These arguments are sound. They are right in line with progress. The savings referred to are due to a great degree to the perfection which has been attained in all sorts of farm machinery and in particular to that

3 TO 5 MORE ACRES PER DAY



You can plant more acres per day with the Hayes than any other planter made. No matter how fast you drive it will always plant your corn in perfect check. It is the easiest handled planter for man and team, the shortest coupled and turns in shortest space.

The Hayes not only saves time and labor but produces a better stand and larger crop of corn.

Because it is the only planter made that will cover all the corn in all conditions of soil. It is the only planter that will plant all the corn at an even depth. It never strings or scatters the corn, nor carries it over in wet or sticky soil. Leaves a ridge over the corn which prevents washouts on hillsides.

THE HAYES Four Wheel PLANTER

drops all shapes and sizes of seed accurately. Never misses, never fails, never cuts or cracks the kernels. Can be depended upon day after day, season after season.

Wheels set at angles, pack dirt at sides, leaving loose ridge on top, allowing young shoots to push through easily. Harrowing levels ridge and saves one cultivation.

Checks with absolute accuracy wherever a team can travel—cross rows straighter than the way you drive. Construction simple. It never gets out of fix.

Get the Hayes. It will save time and repair expense and make your corn crops pay bigger profits. Write for free booklet "F" of planter facts and detailed description of the remarkable Hayes.

Hayes Pump & Planter Co., Galva, Ill.

BEES PAY BIG



and require little care. All the little honey-gatherers and money-makers demand of you is to provide a home for them. They make the honey and you get the profit. What little work you must do can be made 100 per cent easier and your profits 100 per cent bigger if you have the

RIGHT KIND OF SUPPLIES

If you are a bee-keeper or are thinking of going into the bee business you ought to have our beautiful illustrated New Bee Book—just off the press. It's a complete guide to profitable bee culture. Tells you how to buy bees, what kind are best, where to locate the hives, how to care for them summer and winter, how to prepare the honey for market—in fact it tells you all you need to know to make bees highly profitable as a business or a side-line.

SEND FOR THIS FREE BOOK

We sell everything the bee-keeper needs and can save you money whether you keep few bees or many. Buy direct from headquarters at rock-bottom prices. Get our bee book and save money. Write now for a copy as the edition is limited.

BLANKE & HAUK SUPPLY COMPANY
230 Blanke Building
ST. LOUIS
MO.



YOU DRIVE, The Digger Does The Work!

Here is a wonderful potato digger that you ought to know about. Just ask us on a postal and you may have, postage prepaid, our new catalog. The first buyer in your neighborhood will get a special discount. So write to-day and be the first.

Our elevator digger is the "Hallock O. K." type, famous for many years. We bought the Hallock patents outright 3 years ago, added new improved features, and now it is called the FARQUHAR O. K. ELEVATOR Potato Digger.

It's a "snap" to dig potatoes with this implement. You just boss the job—the digger does the work. Piles potatoes in a row behind you in the best possible condition for marketing. A marvel of simplicity—easy to handle, easy to pull, easy to pay for on our good plan. Write now—to-day—and get our Plan, Price and Catalog.

The "Success Jr." Plow Digger is the one for small potato yields. Our Catalog tells about it.

A. B. FARQUHAR CO., Ltd.
Box 207 York, Pa.



THE CLIPPER

will cut tall grass, short grass and weeds, and do all the trimming along the fence, walks and drives.

If your dealers do not keep them, let us know and we will send circulars and prices.

Clipper Lawn Mower Co.

Dixon, Ill.

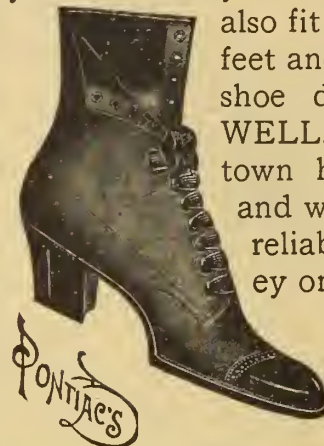


Do You Know



High-Grade Medium Price Shoes For Women, Misses and Children

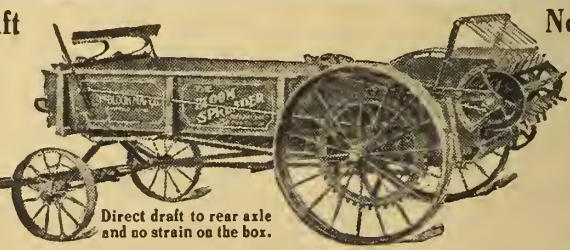
The name, PONTIAC'S WEAR WELL, means just what it says. THEY DO WEAR WELL. They also fit well and look well. Save your feet and save your money. Ask your shoe dealer for PONTIAC'S WEAR WELL. If there is no dealer in your town handling PONTIAC'S, write us and we will put you in touch with a reliable dealer who will save you money on your shoe bills. Our name is on the carton and stamped on the sole.



Pontiac Shoe Manufac'g Co., Pontiac, Illinois.

At Last a Perfect Spreader—The Bloom

Direct Draft
Endless Apron
Regulated from the Seat
All Steel



No Spring
No Gearing
Low for Loading
Simple Durable

The Bloom Spreader has absolutely every feature worth while, and none of the disadvantages of other manure spreaders are combined in the Bloom Spreader. That sounds strong, doesn't it? But it's true. Listen to this—direct draft to rear axle, extremely low for loading, endless apron, practically all steel, apron regulated without moving from driver's seat. No springs or gearing; direct beater drive.

The Bloom is the lightest, yet the strongest spreader made. It is built for quick, active service and long life. As one buyer said, "It's like my thoroughbreds, and differs from the other spreaders just like my thoroughbreds do from heavy, clumsy scrubs."

You will find genuine satisfaction in the Bloom Spreader, and will delight to tell your neighbors of its simplicity and durability.

Sold under our liberal guarantee. Write today for our free catalog.

BLOOM MANUFACTURING COMPANY, NASHUA, IOWA.

YOUR CORN PROFITS will depend upon the quality of the Seed you plant. Just one way to insure the quality of the Seed—that's to buy it of the seed corn man whose success has been built on "quality" alone—that man's W. W. Vansant, the world's most extensive seed corn breeder and grower. **See Advertisement on Page 18**

which is manufactured by the Rock Island Plow Company, of Rock Island, Ill. The Rock Island goods are sold by dealers almost everywhere. Should any dealer not have a stock on hands our readers may secure a descriptive catalog by writing direct to the Rock Island Plow Company, Rock Island, Ill. An advertisement of this firm appears on page 41.

Electric Steel Wheels.

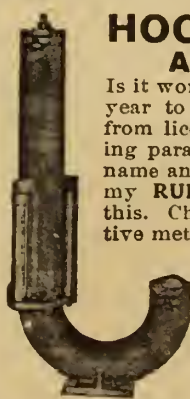
It is a duty which every farmer owes to himself to employ those implements and vehicles which will save any portion of the energy usually expended in the performance of the farm work. Not the least of the saving in this direction can be made through the use of a low-wheel wagon, such as that manufactured and sold direct to farmers by the Electric Wheel Company, whose advertisement appears on page 27. A low,



broad-tire wagon is one of the handiest things on a farm. It saves work, saves time, saves cutting up fields when the ground is soft, and in a dozen ways has advantages over the old narrow-tire, high-wheel wagon. The illustration which appears herewith shows one of the labor-saving times which will be appreciated by everyone who has been obliged to haul corn fodder this winter. This company not only sell steel wagons complete, but sell electric

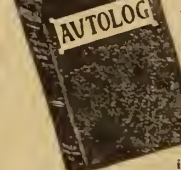
HOG RAISERS, ATTENTION!

Is it worth 4 cents per head per year to have your hogs free from lice and other profit-eating parasites? Send me your name and let me tell you how my RUBRING POST will do this. Cheapest and most effective method in use. No labor required. Works the year 'round. Not dangerous to heavy brood sows. Write for price and description.



S. B. WASSON,
413 S. Washington Street,
PEORIA, ILLINOIS.

How to Save Money In Running An Automobile



Write us the name of your automobile and we will send you FREE the most beautiful, complete and useful book of automobile information ever published.

The Autolog

is FREE. Two hundred pages of useful information which every autoist should have. A copy of "The Autolog" is waiting for your name; just write, giving the name of your car.

KANSAS CITY AUTO SUPPLY CO.,
1501 Grand Ave., Kansas City, Missouri.

When writing mention this paper.

wheels which may be used on any old gear, thus converting it into a handy wagon. For a book giving illustrations, testimonials and other information concerning the electric wheel write to the Electric Wheel Company, Quincy, Ill.

Pansy Post Cards Free.

Messrs. I. N. Kramer & Son, of Cedar Rapids, Iowa, have an offer on page 19 that will please many lovers of flowers. They offer to sell one package of Kramer's twentieth century giant pansy seed mixture for fourteen cents and to give free with it eight beautiful cards of pansies in color.

Ninety-eight Per Cent Corn Or No Pay.

Mr. Rome Armstrong, of Shenandoah, Iowa, has a very interesting advertisement on another page of this issue. He sells seed corn at a very reasonable price and guarantees that it tests 98 per cent or he will refund the purchaser's money. He also pays freight to all points in Iowa, Nebraska or Illinois. See the advertisement of Mr. Rome Armstrong, R. F. D. 1, Shenandoah, Iowa, on page 20 of this issue.

Wholesale Prices on Harness.

The H. & M. Harness Co., of St. Joseph, Mo., make a very attractive offer on page 39 of this paper. They manufacture harness and sell direct to the farmer at wholesale prices, prepaying the freight. They issue a large, free catalog illustrating their full line of harness. Look up the advertisement and address them for their catalog as follows: H. & M. Harness Co., 509 Illinois Ave., So. St. Joseph, Mo.

The Globe Gasoline Engine.

The Globe gasoline engine which is advertised in another column of this paper is making a name for itself among users of gasoline engines. It is designed to stand up under long and continuous loads. This is just the point that the man who has had experience with engines appreciates. The engine has no weak parts and only the best of material enters into its construction. For catalog address the Globe Foundry & Machine Co., Sheboygan, Wis. See advertisement on page 6.

Adjustable Post Hole Digger.

Special attention is called to the advertisement of the Fenn Manufacturing Company on page 29. This company are advertising an adjustable post hole digger which makes different sized holes and works equally well under any condition whether the soil be dry, wet or stony. It handles large gravel very satisfactorily. It has no rivets to work loose or castings to break. More about it can be learned by reading the large advertisement of the Fenn Manufacturing Company, Box 12, Charlotte, Mich.

Good Roads Book Free.

A postal card will secure for any of our readers a book which tells about all a farmer wants to know about good roads, how to make them quickest, at least cost, and what bad roads cost and good roads save. It also tells how to keep roads in the most perfect condition and shows accurate photographs of what machines to use. Put your name on a postal card today and send to the Glide Road Machine Company, 312 E. St., Minneapolis, Minn., for a copy of this book. See their advertisement on page 38.

Cadillac Auto the Cheapest.

The manufacturers of the famous Cadillac automobile submit some very interesting figures in another column of this issue. They tend to show that this machine costs less for upkeep than any other automobile. The figures are a record compiled from the experience of seventy-five Cadillac "Thirty" owners in New York who have driven their cars 398,884 miles at a total cost for mechanical repairs of \$53.21, averaging seventy-one cents per car. The distance is equivalent to sixteen times around the world. An advertisement giving full details will be found on page 38 of this issue.

A Two-Man Hay Press.

Pretty nearly everybody who bales hay knows about the Admiral hay press, an advertisement of which will be found on page 44. The popularity of the Admiral is due to the effectiveness of its work in the past. Recent improvements, however, have added greatly to its effectiveness. The self-feeder and condensing packer cheapen hay baling by doing away with the man at the bale chamber and making the Admiral a successful two-man press, the only help required being a tier and pitcher to fork the hay into the hopper. The Admiral excels in the neatness of its bales, its big capacity and the fact that the machine can easily be moved by one man and a team in ten minutes. For special prices and descriptions of the latest Admiral write to the Admiral Hay Press Company, Kansas City, Mo.

Do Not Have Soft Corn.

The O. S. Jones Seed Company, of Sioux Falls, S. D., call the attention of our readers to the fact that no farmer should take chances on high-priced land in growing corn. Many farmers they claim have tried the "great big" corn and have gotten a big soft corn, as the big corn did not have time to mature. Our readers will have no soft corn, Mr. Jones says, if they plant Wimple's Improved Yellow Dent. This corn ripens from two to three weeks earlier than native corn and yields big crops. It has gone as high as 100 bushels per acre. Note the advertisement on page 20 of this issue. More information will be secured by writing the O. S. Jones Seed Company, Sioux Falls, S. D., for their catalog than can be given in the advertisement. This company also handle everything in field, grass, garden and flower seeds, making a specialty of Canadian seed oats and

Dakota-grown alfalfa of high quality at a fair price.

An Auto Built for Farmers.

The Victor Automobile Manufacturing Company, of St. Louis, reports that they had such a large sale among farmers last year that they have added a new model to their output this year, especially designed to meet the needs of the rural user. This car when used for pleasure is a double-seated rig, either of the surrey style or with doors—a classy, stylish auto in every sense of the word. In an advertisement on this page of this issue will be found an illustration of this car. Look it up and write the Victor Automobile Manufacturing Company, 905 Boyle Ave., St. Louis, Mo., for catalog and full particulars.

The Best Separator Built.

The manufacturers of the Iowa Dairy Separator claim they can positively prove that their separator is the best made and it stands in a class by itself, that there is as much difference between it and other separators as there is between silk goods and cotton goods or between day and night. A few of the claims they make for it are as follows: That it is absolutely the closest skimmer, the lightest running, the most durable and quickest separator to clean. For more information about this wonderful separator look up the advertisement on page 24 of the Iowa Dairy Separator Company, 113 Bridge St., Waterloo, Iowa.

Queen City Plows.

Our readers who contemplate buying plows for spring work will no doubt be interested in the Queen City line made by the Sioux Falls Plow Company, of Sioux Falls, S. D. Farmers have found the strip mold boards to give good satisfaction, and many experienced men who have used both the solid mold boards and the rod breaker and strip mold boards invariably prefer the latter for an all-purpose plow. The Sioux Falls Plow Company will be glad to send free to our readers their new catalog showing complete line of walking, sulky and gang plows, made in solid and strip mold boards. Their catalog contains illustrations and full descriptions of the Queen City line of hay tools, harrows, portable corn cribs and other implements. A postal card will bring their catalog and we suggest to those interested to write for it at once. Please mention this paper. See page 49.

The Monarch Separator \$29.75.

The Lisle Manufacturing Company, manufacturers of the Monarch cream separator, are making a special offer to quick buyers which they claim will save the purchaser from \$20 to \$25 on each machine. The Monarch is a well-known machine and has had an extensive sale throughout the central West for a number of years. It is noted for its high quality and should not in any way be confused with the many low-priced and cheap machines on the market. To prove its quality the manufacturers will sell it on thirty days' free trial. If the buyer does not find it the closest skimmer, easiest to run and best all-round separator in his neighborhood he may send it back at the company's expense. This machine is sold under an unlimited guarantee to do all the factory claims for it. Write today to the Lisle Manufacturing Company, 445 Main St., Clarinda, Iowa, for their book on dairying. See advertisement on page 13.

Northwestern Missouri Farm Lands.

Near Chillicothe in northwestern Missouri are to be found some of the most reasonably-priced lands in the corn belt. Mr. Bazel J. Meek, of Chillicothe, is advertising on page 40 of this paper several farms owned by him in this section. The prices given cannot fail to interest the farmer who wants good soil and attractive location near a county seat town. The climate of this section is temperate—live stock not be-



BAZEL J. MEEK.

ing housed in winter. A failure from drouth is also unknown. Missouri taxes are low compared with other states. Schools are very high grade. Mr. Meek would like to hear from any

readers of this paper looking for a desirable location. He feels sure that no one will be disappointed if he will go and see the land he has for sale in Livingston and adjoining counties.

Horse-Trading Tricks Exposed.

Now that the value of horses has reached such a high figure traders and tricksters will use all their arts and deceptions to work off worthless horses on farmers who are not posted on horse secrets. "Horse Secrets" is, by the way, an exhaustive book on horse subjects which is published by the Farm Journal, of Philadelphia, Pa. It tells all the facts concerning the breeding, raising, breaking, doctoring, buying and selling of horses. Anyone who reads it carefully may be protected from the wiles of the horse trader and at the same time learn many valuable things in connection with the horse-raising business. The book is sent free to all subscribers of the Farm Journal who send \$1 for a five-year subscription to that publication. Orders should be forwarded to the Farm Journal, 1023 Race St., Philadelphia, Pa. See page 2.

Guaranteed Seed Corn.

Mr. James Armstrong, of Shenandoah, Iowa, the well-known, reliable and responsible corn grower, has more than 30,000 bushels of 1909 seed corn, home grown of pure-bred varieties, including Reid's Yellow Dent, Early Yellow Rose, Iowa Silver Mine, Snow Flake, Gold Mine, Wisconsin White, Longfellow, Pride of the North and others. This seed corn he says will grow and repeated tests show 90 to 100 per cent germination. Every ear is rigidly examined and every lot carefully tested. The crop matured early and was picked before damaging storms hurt the seed. Mr. J. B. Armstrong has been in business in Shenandoah for twenty years and has won a reputation for shipping only good corn. His hard-earned reputation of years is at stake and he could not be expected to be deceiving the public this year. Write today for catalogs and samples which will be sent

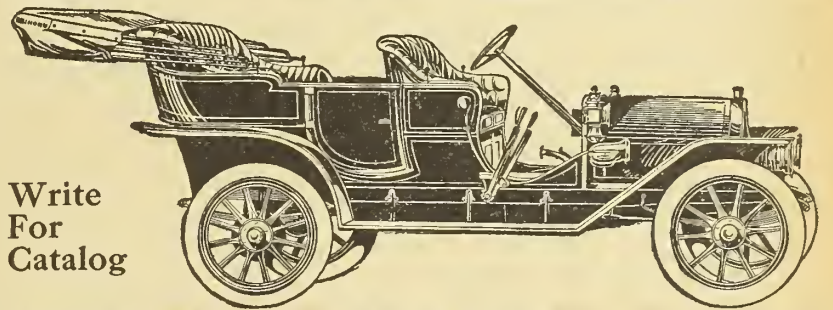
free. For more information see advertisement on page 18.

The Story of Majestic Glory.

This is the title of a book. It is not a novel. It is not a scientific dissertation. It is just a good, interesting, intelligent description of the advantages of the Majestic range which is advertised on page 46. While the farmer's wife will be interested in all the things that the Majestic does and that may be done with it, the farmer himself will take a good deal more interest in the fact that the Majestic is made of the very best of charcoal iron which gives it a wearing quality that will outlast three ordinary ranges. Being made of malleable iron it will not crack nor break nor rust. But what's the use to enter into further descriptions? Get a copy of the book and learn all about it first hand. It won't cost anything if you send a postal card request to the Majestic Manufacturing Company, Dept. 45, St. Louis, Mo., mentioning this paper.

The Advantages of Co-operative Action.

There is no denying the fact that the expense incurred in the buying and selling of goods, between the time they leave the hands of the manufacturer and that at which they reach the hands of the ultimate consumer, are so great as to vastly increase costs. As a means of reducing these costs to a minimum the United Factories Company, of Cleveland, Ohio, have adopted a plan which promises to become effective. This company manufacture among other things, paints, stoves, vehicles, steel wheels, sewing machines, metal and composition roofings, incubators, harness, fence, manure spreaders, gasoline engines, fireless cookers, buggy tops and trimmings, and a variety of agricultural implements. The complete list, with descriptions, is included in catalog, which may be had without charge by writing to the United Factories Company, Dept. No. R-28, Cleveland, Ohio. The prices which it will name will certainly look good to buyers. See page 20.



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For
Catalog

STRENGTH ... SIMPLICITY ... UTILITY

RUNABOUTS, SURREYS AND TOURING CARS \$725 TO \$1,500

Shaft or Double Chain Drive; Selective Gear or Friction Transmission; Solid or Pneumatic Tires, 2 to 4 Cylinder Motors.

"I have just finished a week's trip over some of the worst roads in my territory, in a Victor Automobile, and must candidly admit it is the best machine I have ever seen." O. H. Roessel, representing Simmons Hdwe. Co.

"I have been over hills, through mud, sand and clay and have never had to stop five minutes so far as the machine was at fault. In four months I have traveled 2,865 miles at a total cost of \$30.50." R. C. Sutton, representing Wm. Walke Co., St. Louis.

VICTOR AUTOMOBILE MFG. CO., 905 Boyle Avenue, ST. LOUIS, MO.

EVERY FARMER SHOULD START THE NEW YEAR RIGHT

Don't Do Another Thing Until You Investigate the Merits of
THE INDEPENDENT HARVESTER CO.
THE FARMERS' COMPANY, PLANO, ILL.

We Want You to Know of the Organization and Working of the Greatest CO-OPERATIVE Enterprise in Existence.

We want to show you how through Co-Operation of farmer, dealer and manufacturer, we are breaking the shackles of trust despotism—insuring your freedom from trust dictation.

Cut Out and Mail to PLANO, ILL.

INDEPENDENT HARVESTER CO.,
Box 6, Plano, Illinois.
Send me complete information about the Farmers' Co-Operative Machinery Co.
Name.....
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We want to show you that through our Co-Operative plan we are saving thousands of dollars every year to farmers and dealers everywhere.

Don't delay, but get in immediate communication with this great Farmers' Company, and learn of the liberal inducements received by becoming members of this great enterprise.

Own Your Own Factories—Manufacture Your Own Machines

Fill Out the Little Coupon and send to

The Independent Harvester Co., Plano, Ill.
The Farmers' Company NOT IN THE TRUST

One Gallon of Oil For a Hatch

One filling of the lamp; no heat waste; no danger with the

X-RAY INCUBATOR

Thermometer always in sight. Eggs need not be removed during entire hatch. Other incubators require frequent filling and consume three times as much oil as the X-Ray. We absolutely guarantee to hatch 100 chicks with one gallon of oil. The X-Ray controls the flame—burns high or low; generates just enough heat to maintain hatching temperature. Absolutely no waste. Others always use a strong flame and allow the surplus heat to escape.

The X-Ray Heats to Hatching Temperature in 15 Minutes
Others require 6 or 7 hours. Ventilation complete. Simply raise the lid—all hatching fumes rise instantly. The only really different incubator. Enamelled-steel-covered; rosewood finish. Glass doors on top; lamp in center; flame control. Write now for free book and know the greatest of all incubators. Address
X-RAY INCUBATOR CO., 18th St., Wayne, Neb.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

KEEPING THE CHICKS HEALTHY.

To the Editor of The Homestead:

Soon the incubators will be started for the early hatches. Some, perhaps the majority, will be successful as far as hatching the chicks is concerned, but when it comes to raising them in the brooders there will be numerous disappointments. We have had some failures in hatching, most of them due wholly or in part to lack of care, but as a rule our incubators hatch a satisfactory percentage of the fertile eggs. Our troubles begin when the chicks are placed in the brooder house. Perhaps one brood will be carried through without loss, while the next with like feed and care, droop and die one by one from no apparent cause. This is not so much the case now as formerly, for from our numerous failures and less numerous successes we have learned something of the causes of mortality among very young chicks and how to prevent, or greatly lessen it.

"Bowel trouble" is usually given as the cause of great mortality among brooder chicks. Probably it is, but what causes the bowel trouble? It seems strange that in all these years we have really learned so little along this line. It only emphasizes the fact that the poultry industry is yet in its infancy, but with practical men at work the next few years will see a great advance in all branches of poultry culture.

Bowel trouble results from numerous causes, one of the most frequent

being unsanitary quarters. Unless brooders are cleaned frequently they soon become filthy and a breeding place for disease. If food is thrown upon a foul floor the chicks are almost certain to eat some filth along with their food, with the probable result of disturbing the digestive functions. No matter how clean the brooder is kept, it is unwise to throw feed upon the floor except when it is covered with chaff or cut straw. Some small grain should be scattered to induce the chickens to scratch. Narrow, shallow troughs are best for feeding both grain and soft food. We have had better success since the use of soft food was discontinued. Finely crumbed corn bread the first week and mixed grains thereafter have given best results. A little sweet milk is also fed daily. At first it is necessary to feed the chicks four or five times a day, but later grain may be kept before them all the time. Lettuce is our best and cheapest green feed, and may be fed freely. An inch layer of sand on the brooder floor makes cleaning easy. The droppings may be readily raked out daily and fresh sand put in as required. Outside the brooder is where chicks should be through most of the day and a layer of cut straw on the floor will keep them busy and contented. There should also be a box of fine, dry earth for a dust bath. We use grit and charcoal boxes and drinking fountains in the brooder, also the feed troughs.

Uneven temperature and exposure

Buy the Sure Hatch Bonded



INCUBATOR

It is best to buy this Bonded Incubator because you are absolutely certain to be satisfied with it and with the results it produces

Sure Hatch Incubators

are sold on 60 days' Free trial. They are fully guaranteed and the guarantee is not only backed by the total resources of the Sure Hatch Incubator Company, but also by the Bankers' Surety Company of Cleveland, Ohio, with \$1,000,000 capital and surplus. This Company issues a Guaranty Bond on every Sure Hatch Incubator, insuring the owner that we will live up to our liberal guarantee and this bond is actually sent to every purchaser of a Sure Hatch Incubator.

Order a Sure Hatch to-day. We pay the freight. Ask for our Free book.

Sure Hatch Incubator Co.
Box 16 Fremont, Neb.

100 EGG

Triple wall, copper tank, clear top, full height incubator. Dependable regulator, nursery, chick drawers and double glass in door. It is 26 inches long, 21 inches wide and 31 inches high. The \$10 price includes complete incubator, with thermometer, funnel and instruction book, all delivered at any R. R. station east of the Rockies. With brooder the price is \$15. Catalog of larger machines free. Geo. Ertel Co., 171 Kentucky St., Quincy, Ill.

SHOEMAKER'S BOOK on POULTRY

and Almanac for 1910 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chickendom. You need it. Only 15c. C. C. SHOEMAKER, Box 679, Freeport, Ill.

LATEST BOOK "Profitable Poultry." Best published. Describes most successful Poultry Farm. 45 Varieties pure-bred poultry, beautiful, hardy and money makers; thousands to choose from. Lowest Price on fowls, eggs, incubators, etc. Sent for 4 cents. Berry's Poultry Farm, Box 112 Clarinda, Iowa

\$7.55 Buys the Best 140 Egg Ever Made Incubator

\$4.50 Buys the Best Brooder
Both Incubator and Brooder, Ordered Together
—Cost You Only \$11.50—Freight Prepaid

WHY PAY MORE? Investigate—send your name and address today, the easiest way, by postal or letter. I tell you the prices right here—and how my machines are made. You can have 30 or 60 days' trial on both incubator and brooder—and I'll send all money back if you return the machines to us as unsatisfactory. Be sure to send for my illustrated, free booklet, "Hatching Facts." But, if in a hurry, you are perfectly safe in ordering right now from this ad. Thousands do this way every year. I guarantee to ship all orders sent from this ad on day received—from warehouse nearest you, freight prepaid.) No disappointments.

Order a Complete 140-Chick Belle City Hatching Outfit. Send only \$11.50

BELLE CITY Incubators and Brooders

I've always given my customers more for their money than any other incubator manufacturer in the world—that's why we do so much business.

Belle City Incubators will hatch more chickens—under the same conditions—than any other incubator made, or your money will be refunded. This I guarantee. Double walls—dead air space all over—copper tank and boiler—hot-water heater—best regulator—deep, roomy nursery—strong egg tray—high legs—double door—and everything that's any good on an incubator—all in the Belle City. High-grade thermometer—egg tester—burner and safety lamp included. The Belle City Brooder is the only one having double walls and dead air spaces. I guarantee it to raise more healthy chicks than any other Brooder made. Hot-water top heat—large, roomy, wire runway yard, with platform—metal safety lamp and burner.

Complete Hatching Outfit Only \$11.50

Over 50,000 machines in use—all doing perfect work. The Belle City should be your choice. Send your order now or send postal for "Hatching Facts" booklet and full particulars. Don't pay more than my price. No machines, at any price, are better hatchers or brooders.

J. V. ROHAN, President
BELLE CITY INCUBATOR COMPANY
Box 52 Racine, Wis.



We Ship Quick from
Buffalo, Kansas City,
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140-Egg
Belle City
Incubator
Only \$7.55



140-Chick Belle City Brooder Only \$4.50



125-EGG WISCONSIN INCUBATOR AND BROODER—BOTH FOR \$10

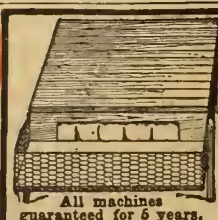
If ordered together we send both machines for \$10.00—freight paid east of Rockford. Hot water, double walls, dead air space between, top has three walls, double glass doors, California Redwood, copper tanks, boilers; self-regulating Nursery underneath egg-tray. Both Incubator and Brooder shipped complete, with thermometer, lamps, egg-testers—all ready to use when you receive them. Incubators finished in natural wood showing exactly the high grade lumber we use. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money. It pays to investigate the "Wisconsin" before you buy. Read the letters below—they are actual proof from users, showing the success they are having with our machines. This is the most convincing evidence you could get. Send for the free catalog today or send in your order and save time. Ask the publisher of Farm Journal or The Commercial and Savings Bank of Racine, Wis. about our responsibility.

Thos. J. Collier, Mgr., WISCONSIN INCUBATOR CO. Box 105, Racine, Wisconsin

Wm. Inc. Co.
Dear Sirs:—We received the incubator and brooder in good time, and to our surprise, not having any experience with incubators, the first hatch was 94%, the second was 96% and the third, 98%. We did not know anything about operating incubators, but old, experienced poultry men say that is a good record.
J. P. BELTZ, Prop. Ideal Farm.

Wis. Inc. Co.
Dear Sirs:—We are well pleased with the incubator which we bought of you. We obtained good results with it. From 455 fertile eggs we got 416 chicks. I think it was a good hatch. I do not think any incubator can heat that.
JOHN DOUGLASS.

Wis. Inc. Co.
Gentlemen:—I had good success with your incubator. I got 93 chicks from 97 eggs and 97 chicks from 103 eggs. I think the Wisconsin is a fine machine. There may be others as good, but I don't think there is any better. I have neighbors who will send for one this winter. They are so well pleased with mine.
HECTOR DENNISON.



All machines
guaranteed for 6 years.

to drafts are prolific causes of bowel trouble. The brooder house need not be kept at as high a temperature as the brooder, in fact it is not desirable, but if there is too great a difference the chicks will become chilled when they come from the hover out into the room. We find it best to use a small heating stove in the brooder house through March and part of April, in addition to heating each separate brooder with a lamp. Ninety degrees under the hover is the proper temperature the first few days, then gradually lower it to 80. The room in which brooders are kept should be about 70 degrees. Be sure there are no cracks to admit cold currents of air. Sometimes there is a draft under the door. It is apt to be unnoticed and may do much harm, being close to the floor where it is certain to strike the chicks.

Usually brooder chicks are free from lice, but occasionally the pests are introduced in some manner and are apt to spread among the chicks before their presence is observed. Watch the chicks closely, examine their heads and bodies, and if any lice are found, grease every chick at once with lard or carbolated vaseline, applying lightly.

There are various other causes of sickness among chicks. They are very easily affected during the first three weeks and every precaution should be taken to keep them in good health. See that they get plenty of exercise. Have the brooder house well lighted. Keep a supply of small grit handy. Above all, don't house the chicks in filthy quarters. Keep the brooders sweet and clean. Feed carefully and observe the chicks closely, removing any that show signs of sickness. If these details are attended to faithfully, success may be reasonably counted on. There will be some failures and disappointments of course, but with increased experience will come better result

HATCHING AND REARING CHICKENS.

To the Editor of The Homestead:

To hatch a large quantity of chickens the first consideration must be about the hens in stock. They must be well cared for and carried through the winter in warm quarters. They

should be fed a warm mash composed of bran, milk, ground feed and cayenne pepper and a small quantity of salt, with wheat scattered in coarse straw at noon and parched corn at night, and of course an abundance of fresh water with the chill taken off at all times. Always see that they have plenty of grit in the form of sand or ground oyster shell. A weak solution of limewater is also very good for hens, which provides good, strong shells for the eggs. I find meat or scraps of some kind assist in producing large quantities of eggs. If you live where rabbits are numerous and destructive you would find several rabbits a week quite an addition to your rations and a great help in filling the egg basket.

Now, if possible, have all cracks in the hen house stopped up and the building well banked up. I find the cheapest and best way is to place a load of straw at the back of the chicken house clear to the eaves and on the ends, providing the building has a south front, which I think is the best position for a chicken house.

Supply one rooster for every twelve hens during late winter and early spring, then the eggs will show a strong per cent of fertility. Later in the season when the hens are on free range one rooster for every twenty hens is sufficient. Gather the eggs often each day when there is danger of them chilling, especially if you are gathering them to set. If you have brooders set the incubators as early as the first of January, but if you must depend on hens for mothers necessity demands that you wait until your hens are in the notion.

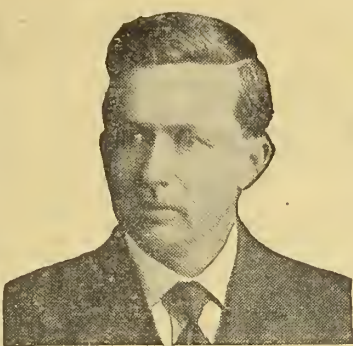
I find the prepared chick feed the best for the first two weeks of the young chick's life, and I also like to have plenty of sand on hand. But if you have other feed handy and do not care to buy I think hard boiled eggs, whole wheat and ground corn make a fine substitute. Feed all feeds dry, giving drink in the form of milk or water or both, in separate vessels, and have everything perfectly clean. After the chicks are a few days old scatter their feed in clean, dry straw and you can almost see them grow. They never peep around when it is cold and damp when cared for in this way. Discard your coops if possible and use part of the hen house, or have a brooder house built especially for your use, in which case rains, storms, cold or any kind of inclement weather cannot affect your flock and you will not find a bunch of your finest chickens piled up in one corner smothered to death some sultry night.

In the fall I cull out the roosters to sell and have the pullets in winter quarters without any moving, and they will lay earlier in the winter by not being changed. Do not allow the hens to be disturbed by dogs or strangers or the children, for instead of making the hens lay better they will nearly always stop laying if disturbed.

Villisca, Iowa. Subscriber.
CRATE FATTENING THE SURPLUS POULTRY.

To the Editor of The Homestead:
Many times we find the poultry the poorest kept of all the farm animals, simply because we think them too small to actually pay for any real care. There are no figures to show that they are unprofitable to the farmer, but, nevertheless, the fact remains that a large number of us neglect them simply because we have never investigated the possible profits.

The general farmer running eighty to 160 acres of land has no time to become a fancier and cater to the fads of the show or spend his time rearing broilers for the early market. However, it does seem that it is profitable to raise 300 to 400 chickens each year under farm conditions. Part of these are kept in the flock for the next year, but there are culls and roosters that must be sold on the market. It is to this class, and this class alone, that crate fattening applies on the farm. During the past fall three buyers have passed through this district picking up the surplus poultry. The numbers they were able to secure were very large, simply because these buyers would come to the farm, pay cash, and haul the poultry away. It is a quick and convenient method of selling poultry, but why should they be marketed in this way



SPECIAL WORD to Homestead Folks

Don't kill the hen that lays the golden eggs. Keep your hens busy laying and let the Fairfield hatch your chicks for you. It will do it better, easier and cheaper. I will guarantee it.

Did you ever try to watch thirty setting hens at one time? If you did you know you have got a job on your hands. Now my Number 1, 100-egg capacity Fairfield will raise more chicks for you in one season than thirty setting hens. It never leaves the nest. It don't take any more time or trouble to watch than one hen.

Do you want strong, healthy chicks ready for next winter's market?

Then buy a Fairfield early this year and put it to work. It will earn you a lot of money by fall. Remember, folks, I make a lot of strong claims about my Fairfield Incubator. You can't buy a better machine anywhere. Then I just say to you, try it for yourself—Two hatches free. It's got to please you and make you money or I don't want you to keep it.

Yours truly,

Sam Thompson.



3 Sizes
100, 150
200 Egg
**Sold Direct
From Factory
To You**

The New Fairfield

The "World's Best Hatcher." Freight
Prepaid on a 2-Hatch FREE TRIAL

SAM THOMPSON SAYS

I Want to Send My 1910 FREE Incubator Book and Special Offer to All The Homestead Readers

I just want to tell you how you can make a lot more money out of your chickens this year than ever before. My new illustrated 1910 Incubator Book is chock full of chicken-raising facts. It's worth 50c to \$1.00 of anybody's money and I will send it to you free any time you say so. I want to tell you all about my new 1910 Fairfield Incubator and Brooder. My customers call the Fairfield the World's Best Hatcher. That's what their experience has proven it to be. I claim it's the best incubator on the market.

Then I say to you, don't take my word for it. Be your own judge. Just send for the Fairfield and try it in your own home—two hatches free with the money in your pocket if you wish. That's the best proof I can offer you that the Fairfield will do all and more than I claim for it. It must make good in your poultry business or I don't want you to keep it. Isn't that fair? Get my catalog telling all about it.

About My Incubators

The Fairfield is well made from start to finish. Always has been and always will be. We use Calif. Redwood in our construction. Its patented steam and water circulating heating system guarantees the biggest hatches of healthiest chicks ever raised in an incubator. Our double disk regulator works perfectly. No better lamp in any incubator. Large, roomy nursery and egg chamber. Double doors. Unobstructed top. An incubator without a rival. That is what my Fairfield is.

My 2-Hatch Free Trial

I have a lot of confidence in my Incubator being just the machine you want. If I didn't I would never make you this sort of an offer. I will ship you, freight prepaid, a Fairfield Incubator and Brooder and let you try them in your home, two full hatches free, entirely at my risk. It's got to please you or of course you won't keep it. If it don't please you ship it back and I will pay the freight. Now take me up on this offer before you think of buying anybody else's incubator or brooder. I will treat you square.

About My Brooders

You want a good Brooder to go hand in hand with your Incubator. Now I claim the Fairfield to be a good all round common sense Brooder. It's a hot air, overhead heater with plenty of room. I make them in three sizes, 100, 150 and 200 chick capacity. They are self regulated and will keep your chicks comfortable until large enough to take care of themselves. My Brooders are sold on the same plan and guarantee as my incubators. Let me ship you one along with your incubator.

I Pay the Freight

Thompson pays the freight on his Incubator to your town. I don't care where you live, my prices to you will include the freight paid to your station. You can't take any risk when you buy one of my machines. I pay the freight to start with and if they don't please you I will pay the freight back and give your money back if you have paid me any in advance. Now that's Thompson's way of doing business. He ships his incubator out on the strictly "make good" plan, you to be judge. There couldn't be a fairer offer than this.

Cut Out This Free Coupon

And Send To Me Today

I want to send you my 1910 catalog free. I want you to know all about the Fairfield Incubators and Brooders and my new plan of selling them on a 2-hatch free trial. All you have got to do to get this book which contains a lot of chicken-raising facts in it is to fill in, cut out and mail this free coupon to me today. I will send my catalog to you by return mail. I am going to send you at the same time the greatest proposition ever made by an incubator manufacturer. I have a straight business proposition to make you that will help you get your incubator partly or entirely free. It's a proposition I know that you will want to accept because there's money in it for you. Sit down right now while you are thinking about it and just write me a postal or letter telling me the size incubator you want or just say "Send me your new catalog" and you will get them by return mail. Address

**Free Book
Coupon!**

To Sam Thompson
127 Main Street,
Fairfield, Nebraska.

Please send me your new 1910 Free Incubator Book and Special Offer, telling me how I can get my machine partly or entirely free, by return mail.

Name.....

Town.....

State..... R. F. D. No.....

SAM THOMPSON, Pres.
Nebraska Incubator Company
127 Main St., Fairfield, Neb.

when three weeks' feed and a little care in marketing would increase their values 35 to 50 per cent.

In crate fattening, the close confinement makes it necessary to have healthy poultry and to use the strictest rules of cleanliness in the feed and care of the birds. Place the crates in convenient rows in a dark but well-ventilated room. A number of very good crates can be used, but probably the best in regard to size and shape is one six feet long, eighteen inches wide and two feet high. The length is divided into three apartments of equal size. The top, back and bottom are made of slats running lengthwise. These slats are two inches wide and are set two feet two and one-half inches apart. The front is also of slats, running vertically. These, however, should always be nailed two and one-half inches apart. The doors for removing the birds are made by leaving two false slats in each pen. The feeding trough runs along the entire front and should be light, easily removed and easily emptied.

For feed, buckwheat meal mixed with milk seems to be the best, but on account of the high cost it is impractical. A mixture of barley, corn meal and oil meal mixed sloppy with skim milk seems to be the most satisfactory when both gains and cost are considered. Feed the birds four times a day. Let them eat all they will in fifteen to twenty minutes, then remove all that is left so they will not get off feed.

In three weeks of such feeding two and one-half to three and one-half

pounds of fat can be put on each fowl. The close confinement softens the harder flesh of the older animals so that the whole carcass is more desirable and brings a higher price. Since the above plan works out on a profit basis, why should the poultry be marketed in a half-fat condition when we all know that a little feed would return big profits?

M. W. O'Donnell.

Story county, Iowa.

SOME INCUBATOR REMINDERS.

To the Editor of The Homestead:

Don't forget to fill the lamp and turn the eggs.

Don't monkey with the incubator any more than necessary. It is not a plaything, and while it cannot peck or flop you like a hen might do, it gives better returns when it is undisturbed.

The thermometer may vary a good deal, but if the machine has been doing a good business, don't worry. Give it time and all will be well.

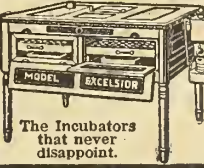
After eggs are hatched, remove the trays. This will give more room for the new brood.

Don't fail to get a permit from the insurance agent or company to use an incubator in your house. Some companies refuse to grant the permit. A change of policy is the only remedy for this.

At end of the seventh day all unfertile eggs are perfectly clear while the fertile ones show dark spots which radiate red spidery lines. Remove all infertile eggs from the incubator. At end of fourteenth day a test may show some of the germs that began

Hatch Chickens By Steam

Make the hatching of your 1910 chicks sure and easy. Stahl's Excelsior or Wooden Hen Incubators are not experiments. They are so sure that a fertile egg means a live, healthy chick. You get real incubator value in either machine. Equip



early, and grow and market your early-hatched broilers when prices are high. Early money is the biggest. Write to-day for free catalog.

GEO. H. STAHL,
Box 7 V Quincy, Ill.

THIS 120-EGG HATCHER \$7.50

SAFE
SURE
FREIGHT PREPAID
BIGGEST value of the year.
Get new low, delivered prices on all sizes of famous

Ideal

Incubators. Metal-covered all round, self-regulating and ventilating. Safest and surest. Delivered free east of Missouri River and north of Tennessee. Write for delivered prices to points beyond. Lowest prices on Brooders, too. Send for free book today.
J. W. MILLER CO., Box 306, FREEPORT, ILL.

Send Your Name for Free Book

43 Leading Varieties of pure bred Chickens, Ducks, Geese, Turkeys; also Holstein cattle. Prize winning stock. Oldest and largest poultry farm in the northwest. Stock, eggs and incubators at low prices. Send 4 cents for catalog.
LARKIN & HEPPNER, Box 13 Mankato, Minn.

50 Best Paying Varieties

Pure-Bred Chickens, Ducks, Geese, Turkeys, Eggs, Dogs and Incubators. All at low prices. Send 4c. for my Book which gives reliable information worth many dollars to you.
W. A. WEBER, Box 906 Mankato, Minn.

to develop have died. Remove such eggs without delay.

If eggs lack moisture, it may be supplied by sprinkling them with water at 95 degrees. Shallow pans of water set under the egg trays, a wet sponge placed in the incubator, or even moist sand will supply necessary moisture to eggs.

Twenty-four hours after chicks have been hatched, they should be removed. The brooder that is to receive them should be thoroughly prepared before the chicks are put into it. The temperature should be ninety-five at first, gradually dropping to seventy.

Subscriber.

POINTERS.

—Light Brahma eggs, fifteen for \$1.45, are advertised by Mr. Frank P. Healy, of Bedford, Iowa. See page 35.

—Buff Wyandotte cockerels are advertised for sale by Mrs. Grant Davidson, of Scranton, Iowa, on page 35.

—Toulouse geese and Barred Plymouth Rock hens are advertised for sale by Mrs. James Cockerton, of Whiting, Iowa, on page 35.

—Mrs. L. F. Alison, of Quincy, Ill., is quoting prices on eggs from Single Comb Rhode Island Reds in his advertisement that appears on page 35.

—Mr. L. L. Woods, of Grinnell, Iowa, can furnish Homestead readers with Buff Plymouth Rock eggs at very reasonable prices, as per advertisement found on page 35.

—Barred Plymouth Rock eggs from the very best strains are advertised for sale by Mr. John C. Hardman, of Brayton, Iowa, at \$1 for thirteen or six sittings for \$5. See advertisement on page 35.

—Rev. E. S. Swensen, of Alta, Iowa, quotes prices on a number of popular varieties of poultry in his advertisement appearing on page 35. He will guarantee all eggs to be strictly fresh and true to name.

—Mr. A. O. Lokken, of Alta, Iowa, has bred Barred Plymouth Rocks exclusively for the last ten years. He announces in his advertisement on page 35 that he will quote the lowest price on fowls and eggs.

—Mr. Martin Johnson, of Cambridge, Ill., is advertising eggs from high-scoring White Plymouth Rocks, the kind that win the blue and fill the egg basket, on page 35 of this issue. Write him for prices, kindly mentioning The Homestead.

—Mr. S. T. Bussard, of Essex, Iowa, is offering eggs from Single Comb Rhode Island Reds on page 35 of The Homestead. Look up his advertisement and write him.

—Mr. J. L. Todd, of Des Moines, Iowa, the great Barred Plymouth Rock and Golden Wyandotte breeder and grower of strawberry plants, has had printed at The Homestead office a fine twenty-eight-page catalog which is sent free to all Homestead readers. Write for it. It's a daisy. See page 35.

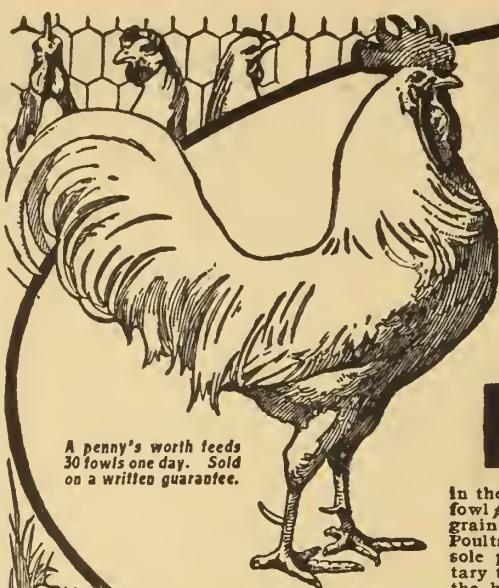
—Mr. F. A. Ham, of Saronville, Neb., is offering eggs for sale from high-scoring Rose Comb White Leghorns at reasonable prices in an advertisement on page 35 of this issue. If in the market for eggs of this breed you will find it to your advantage to write Mr. Ham, kindly mentioning The Homestead.

—Mr. J. M. Reeder, of Earlville, Iowa, breeder of Barred Plymouth Rocks exclusively, writes: "My flock consists of large, well-barred hens and pullets, mated with the largest and best lot of males I have ever owned, the flock is very thrifty. Kindly book your orders early." See advertisement on page 35.

—Mr. H. S. Fain, of Emmetsburg, Iowa, breeds Rose Comb Rhode Island Reds exclusively, as advertised on page 35. He is now offering eggs for hatching at very reasonable prices. These are from stock which have scored from 90 to 93½ points and have been prize winners at good show rings. Do not buy eggs without writing for further particulars. Address Mr. H. S. Fain, Emmetsburg, Iowa.

—Mr. F. Dorrell, of Luther, Iowa, announces on page 35 that he is now prepared to furnish Barred Plymouth Rock cockerels, Single Comb Rhode Island Red cockerels and pullets, Rose Comb Rhode Island cockerels and Kellerstrass White Orpington hens, pullets and cockerels. Mr. Dorrell was very successful in showing his Rhode Island Reds and White Orpingtons at the Iowa State Fair and also at the Madrid Poultry Show. They are of the same strains that have been winning at all the big shows. For prices or descriptions write to Mr. F. Dorrell, Luther, Iowa.

—Mr. R. H. De Vault, of Bloomfield, Iowa, breeds the finest Single Comb Rhode Island Reds. Without regard to cost he has introduced the very best blood into his flock. His birds are large in size, long bodied, excellent in shape and of that beautiful, even, rich red color so much sought by Rhode Island Red breeders. They are red right to the skin and fairly glow with health and vigor. His birds are from stock that won first at Chicago and other leading shows and he has many birds in his yards that have won wherever shown. His birds have been especially bred for egg production and cannot be excelled as winter layers. He offers this season from prize-winning and high-scoring stock at a very reasonable price. Those who want high-



A penny's worth feeds 30 fowls one day. Sold on a written guarantee.

YOU Can Make Poultry Culture Pay

It's not so much a question of any one particular breed, as *how you handle the breed you have*. If you possess a flock of "blooded" birds—well and good. But if yours are only "barnyard" fowls, don't be discouraged—they will pay you handsomely if you keep them healthy, happy, hearty and prolific by giving a regular daily portion (small) of

DR. HESS Poultry PAN-A-CE-A

In the soft feed. The effect of this preparation is almost marvelous. It gives the fowl perfect digestion, and that means the maximum nutrition is extracted from grain and "mash" and sent through the blood to make growth and eggs. Dr. Hess Poultry Pan-a-ce-a is a tonic—not a stimulant, not a condiment, not a food. Its one sole purpose is to make food available; and that it does this is the voluntary testimony of thousands of satisfied users who are coining money in the hen business. This method of feeding is known among poultrymen as "The Dr. Hess Idea," and is endorsed heartily by medical men who know the value of the elements of which Poultry Pan-a-ce-a is composed. It brings young chickens to early maturity; it helps old fowls to fat quick and tender. Pan-a-ce-a also cures Gapes, Cholera, Roup, etc.

1½ lbs. 25c; small or express 40c; 5 lbs. 60c; 12 lbs. \$1.25; 25 lb. pall \$2.50.

Except in Canada and extreme West and South.

DR. HESS & CLARK, Ashland, Ohio

Send 2c for Dr. Hess 48-page Poultry Book, free.

DR. HESS STOCK FOOD

If you are a farmer and own farm stock, Dr. Hess Stock Food is a necessity in your business. It's a tonic—acting directly on the digestive organs. A small dose in the grain ration, twice a day, maintains a regular, healthy action of all bodily functions in all animals receiving it. It increases appetite and at the same time gives the digestive organs power to carry the increased load. Thus it makes more milk in the cow; more flesh on the steer; and greater spirit in the horse.

SOLD ON A WRITTEN GUARANTEE

100 lbs. \$5.00. 25 lb. pall \$1.60. Except in Canada and extreme West and South.

Smaller quantities at a slight advance.

Send 2c for Dr. Hess Stock Book, free.

INSTANT LOUSE KILLER KILLS LICE

DOGS.

THREE FOX TERRIER MALE PUPS

READY for shipment. These pups are perfect beauties, nicely marked, are from hard working and great ratter parents. These pups will make fine ratters and good watch dogs. Shipped on approval at the very reasonable price, \$10 each. First orders here for them gets them. Order quick.

S. HARR, Riverside, Iowa.

SCOTCH Collie pups, sable, black and white, over two months old, from trained parents; eligible males, \$7; females, \$7. F. Bollman, Wall Lake, Ia.

Great Collie Sire at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

FOX TERRIERS—king of the rat terriers. Puppies and grown stock for sale. Few choice S. C. Red cockerels. Address Sabot Kennels, Pella, Iowa.

Try Mine FREE

I still have a number of my fine QUEEN Incubators to put out on trial. Drop me a line. I'll send you my new Incubator Book for you to pick out the size you want. I want to show you the incubator that outshines them all and that's so well made. I prepay the freight and guarantee it for 5 years. Wickstrum, Queen Incubator Man, Box 10, Lincoln, Neb.

Poultry Supplies



As we are the largest as well as the oldest dealers in poultry supplies west of the Mississippi River we can offer many items of interest to poultry breeders. We also handle thoroughbred poultry and EGGS FOR HATCHING. Don't fail to send for a copy of our new illustrated price list. Complete catalog of seeds, plants, etc., also free if you mention this paper. Write at once. Iowa Seed Co., Dept 1 Des Moines, Ia.

class Reds that are really red should read his advertisement on page 35 and send at once for his egg circular.

—Mr. T. F. Martin, of Maxwell, Iowa, who breeds the famous laying strain of White Plymouth Rocks, is offering eggs now at very reasonable prices to Homestead readers. Parties should write to him at once and improve the laying qualities of their flocks. See advertisement on page 35.

—Mrs. Chas. Murphy, of Dexter, Iowa, is advertising eggs for sale from Barred Plymouth Rocks, at very reasonable prices, on page 35 of this issue. The stock she is handling is high scoring, with heavy bone, small combs and clear, narrow barring, and has farm range. Look up her advertisement and kindly mention The Homestead when writing.

—Mr. E. H. Bodley, of Newton, Iowa, proprietor of the Square Deal Poultry Farm, breeder of Single Comb Rhode Island Reds and Barred Plymouth Rocks, writes that he has a number of first-class cockerels to dispose of immediately. They are good enough to head the best pens. He also has Mammoth Bronze turkeys for sale. Write him for catalog after reading his advertisement on page 35.

Ask your neighbor to subscribe for The Homestead

RAYO INCUBATOR

The lamp is where it ought to be—underneath. No wasted heat or oil. One gallon of oil, at one filling, makes complete hatch. Eggs cooled and turned without removal from machine. Automatic blower regulator. Double glass, binged cover. Eggs, thermometer and chicks always visible. Lamp heats to hatching point in 12 minutes. If not satisfied, return and money refunded. We pay the freight.

Free Trial

Saves Labor, Money, Oil

Free Book

RAYO INCUBATOR CO.

Burt Street, BLAIR, NEB.

SPECIAL PRICE ON



LICE PROOF NESTS

—KNUDSON'S GALVANIZED STEEL—At Almost the Cost of Raw Material. Greatest Poultry Appliance ever invented—lice will not go near metal nests and they last a lifetime. Each nest has separate door for shutting in setting hens or closing at night to prevent roosting in them. Hangs on three nail heads, and to clean—simply lift off and dump contents out of open back. Can hang other nests—one above the other or endwise. If you use one—you'll want more. Free Illustrated Catalog.

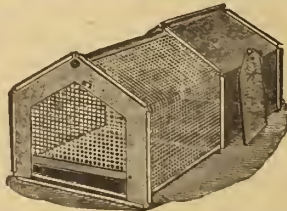
Send \$3.50 For Full Size Set of 6 Nests—Regular Price \$3.90. 3 Complete Sets \$10. Knudson Mfg. Co. Box 115 St. Joseph, Mo.

Inoculation New to Chickendom

"OCULUM," a scientific treatment. Cures and renders fowls immune forever to Cholera, White Diarrhea, Roup. Deaths reduced 80%. Successful as vaccination. Doubles egg yield. \$1 inoculates 400 fowls, 600 chicks. Guaranteed. HANCOCK INOCULATUM CO., Inc., Box C, SALEM, VIRGINIA.

The GLUCK'S IDEAL BROOD COOP

\$1.50 Sold Direct \$2.50



FROM manufacturer to the farmer; no middle-man's profit. Protect your chicks. This is absolutely the only up-to-date Sheet Metal Coop on the market today that will answer to the following in the most perfect manner. Points to be considered: All the following points, which make up a perfect Brood Coop, are found in this photograph. We invite your criticism. It does not rust. It does not become damp. It does not become foul from use. It does not require painting to keep the lice out. It is louse proof. It is mite proof. It is rat, cat and mink proof when closed at night. It can be folded and put away for the winter. It can be taken apart and cleaned. It gives perfect ventilation, either when yard is opened or telescoped. It will last a lifetime. When used with telescoping yard left open, the chicks are free from danger. Write for descriptive circular and special prices on orders calling for three or more coops.

STOVER GAS MACHINE MFG. COMPANY FREEPORT, ILLINOIS.

90% Hatches

from the Cyphers—in every country and estate—for old-timers and beginners. For you. CYPHERS INCUBATORS and Brooders are non-moisture; self-regulating; self-ventilating. Write for 160-page Catalog. Address: Nearest City. Cyphers Incubator Co., Department 42 Buffalo, N.Y.; New York City; Chicago, Ill.; Boston, Mass.; Kansas City, Mo.; Oakland, Cal.

When writing to advertisers please mention this paper.

The City Man Says

eggs cost more each year. This is true, yet thousands and thousands of city folk keep poultry to produce the family supply. The raising of poultry and the production of eggs increases each year. The demand grows faster than the production. Result—

THE PRICE GOES UP

The poultry industry has greater possibilities than ever before and it's profitable on either small or large scale. Geo. H. Lee has been a poultry raiser for 25 years and invented appliances he couldn't buy. The same mechanical means that he perfected are used by successful poultrymen everywhere. Lee's "Chicken Talk" is a book written by him. Valuable. Free copy, and 1910 Incubator, Brooder and Poultry Supply Catalog mailed postpaid. Ask for it to-day.

Geo. H. Lee Co., 117 Harney St., Omaha, Neb.

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For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Colled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. We pay freight. The Brown Fence & Wire Co., DEPT. 34 Cleveland, O.

Send Us a Postal for a Price

Just your name and address on a postal brings special low prices on all sizes of RACINE Incubators and Brooders—guaranteed to hatch highest percentage of eggs. Liberal Trial Plan. Best Incubator Proposition on the market. Postal brings all printed matter and special prices at once. Address RACINE HATCHER COMPANY Box 195, Racine, Wis.



LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 12 years with this breed. Eggs: Peas 1 and 2, 15, \$3; 30, \$5. Seared flock; every bird with score card by Shellabarger, Holden or Shank. In 15, \$1; 50, \$3; 100, \$5; 200, \$9.
R. R. STEWART, R. 2, Charles City, Iowa.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$5; 200 for \$9.
T. A. DAVENPORT, BELMONT, IOWA.

S. C. Brown Leghorns Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

Single Comb White Leghorns

BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketchum, Box 300, Boonville, Ind.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5, 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. Sunny Slope Poultry Yards, Oskaloosa, Iowa.

Rose Comb White Leghorn eggs for hatching; 15 for \$1; 30 for \$1.75; or 100 at \$4. Address F. A. HAM, Sharonville, Nebraska.

SINGLE COMB WHITE LEGHORNS. Eggs, 15 for \$1.25, \$5 per 100. S. C. Rhode Island Red eggs, 15 for \$1.50. Star Poultry Farm, Eddyville, Ia.

Rose Comb Brown Leghorn cockerels; choice birds; prices right. Eggs in season. Address Mrs. Laura Mather, Clarksville, Ia.

FIFTY ROSE COMB BROWN LEGHORN COCKERELS \$1.25 each; very choice. J. A. Albertus, Portsmouth, Ia.

Rose Comb Brown Leghorns; prize-winning cockerels for sale. Also eggs in their season. For prices address Mrs. E. L. Claypool, Spencer, Ia.

S. C. B. Leghorn cks. that are well marked. Large, strong-boned, good-combed, healthy birds, \$1.50 each. F. Bollman, Wall Lake, Ia.

S. C. W. Leghorn eggs; first pen headed by ckl. direct from Young. Send for circular. C. Is. J. Mackey, Box 523, West Liberty, Iowa.

ORPINGTONS.

S. C. BUFF ORPINGTON and Buff Rocks, also Light Brahmas, scoring 92 to 94, best of matings, all birds are high-scoring. Eggs \$3 for 15, half price after June 1st. Prices quoted on 100 lots. C. E. MINER, RUSSEY, IOWA.

THE S. C. BUFF Orpington Farm. After March 1st, I will offer eggs by the sitting at \$2.50 or \$7.50 for 50, and by the 100, \$12.50. Will replace all clear eggs if returned express paid. J. T. STADLER, MINDEN, NEBRASKA.

S. C. Buff and Black Orpingtons, best strains. Cockerels, \$2 and \$3 each. Pullets, \$1.50 and \$2. Eggs, \$2 and \$3 per 15; utility, \$6.50 per hundred. E. B. Conable, Box 4, Independence, Ia.

ORPINGTONS S. C. Buff. A fine lot of cockerels, \$1.50 to \$3 each. Eggs in season. Address Dan McCarty, Winthrop, Ia.

Single Comb Buff Orpington cockerels and pullets. Eggs in season. Eggs from fine Hondans reasonable. Mrs. Chas. Gitchies, Floyd, Ia.

BUFF, White and Jubilee Orpingtons for sale, including eggs very cheap till May 1st, the time we must move. P. N. Dunn, Humboldt, Iowa.

Buff Orpington Ckls. Also a few cocks, grand and shape. Address Nettie Crane, Blencoe, Iowa.

SINGLE Comb Buff, Black, White and R.C. White. Scored cks. Scientifically mated breeders. Eggs. Baby chicks, mating list. Dr. Evans, LeGrand, Ia.

S. C. BUFF ORPINGTONS Cook strain direct. Eggs, \$2 per 15; \$10 per hundred. B. S. Long, Little Sioux, Iowa.

WYANDOTTES.

White Wyandotte Eggs Free

THE Homestead readers who will give me their order for two sets, 15 eggs to the set, at the regular price, \$1.50 per set, will get one set free with order from my great laying strain. This offer expires March 15th; otherwise, the price will be \$1.50 per 15 straight, or \$7.50 per 100, making 7 sets. Order the eggs at once and have me send them later. A few fine White Wyandotte cockerels and pullets for sale. S. HARR, RIVERSIDE, IOWA.

I Have the Best White Wyandottes I ever raised, now ready for sale. \$10 trio a specialty. Quality stock. J. M. Erickson, Slater, Iowa.

WYANDOTTES White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. A. L. Anderson, Indianola, Ia.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3, 15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

White Wyandotte Eggs \$3.00, \$1.50, 75 cents per 15. Circular free. Otto Peterson, Jr., Axtell, Nebraska.

Buff Wyandottes I have a few good cockerels for sale. Address Mrs. Grant Davidson, R. 3, Scranton, Iowa.

Buff Wyandotte Cockerels, bred from show yard strains, for sale. Also a few pullets. Geo. M. Deyoe, Mason City, Ia.

Silver Laced Wyandotte cockerels for sale; Larger and better than ever. Write today. S. R. Young, Greenville, Iowa.

MINORCAS.

S. C. BLACK MINORCAS

EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

DUCKS.

INDIAN Runner ducks; imported stock. Orders booked for eggs at \$2 per 15. Pure fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

PLYMOUTH ROCKS.

Buff Plymouth Rocks and Black Langshans

Prize-winning birds, scored and unscored, \$1 to \$3.50 each.

C. E. Malone, Atlantic, Ia.

BARRED PLYMOUTH ROCKS

COCKEREL pens headed by first-prize winner at Des Moines Poultry Show, 1908, and birds of equal merit. Females consist of pullets sired by the State Fair first-prize cockerel and the hens that produced them. Pullet pens are Blue Belle strain, and contain first-prize hen, State Fair, 1909; second-prize hen and pullet, Des Moines Poultry Show, 1909. Eggs, special pens, \$5 for 15; others, \$2.25 for 15. E. M. CATHCART, CHARTER OAK, IA.

219 Egg Strain B. P. Rocks

AND these birds are Blue Ribbon winners. I have a few cockerels and females for sale, from \$1.50 to \$5 each. Address W. A. HARTMAN, Box 242, Winterset, Iowa.



Barred Plymouth Rock Eggs

FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weigh 10 to 12 lbs.; Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guarantee good hatch and safe delivery. Catalog free. S. V. LATCHAM, MONTEZUMA, IOWA.

Eggs For Hatching

FROM farm range stock; Barred Plymouth Rock, Buff Plymouth Rock and Single Comb Brown Leghorn. Prices reasonable. Circular free. C. E. MATTESON, Pewaukee, Wisconsin.

LIBERTY POULTRY FARM

FOR 10 years breeder of Barred Rocks exclusively. Choice quality. Lowest prices on fowls and eggs. Address A. O. LOKKEN, ALTA, IOWA.

Barred Plymouth Rock Eggs

I AM offering choice eggs from the leading strains at \$1 for 13; six sittings for \$5. Write me at once. Address Jno. C. Hardman, Brayton, Iowa.

Barred Rock EGGS from high-scoring, farm-range stock, with heavy bone, small comb and clear, narrow barring. Twelve years' experience; satisfaction guaranteed; pens, \$1.50 per 15; range flock, \$1. Mrs. Chas. Murphy, Dexter, Ia.

CHOICE Utility B. P. Rock cockerels; large, good shape, well barred and will please you. Also some very choice S. C. W. Leghorn cockerels. M. E. BIRCHARD, HAZLETON, IOWA.

BUFF ROCK EGGS

From a strain of fine winter layers, \$1.50 per 15; \$1.50 per 50; \$3 per 100. L. L. Woods, Grinnell, Iowa.

150 Bradley and Thompson B. P. Rocks COCKERELS AND PULLETS.

Henry Schlatter & Sons, Lawler, Iowa.

WHITE ROCKS Trapped, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up. 15 eggs \$3, \$2 and \$1. Address Rev. James A. Slack - Yorktown, Iowa.

White Rock Cockerels \$2 to \$5 each. Few pullets and hens. Also some extra fine Bull Terrier pups. Address F. H. ECKERT, CHARTER OAK, IOWA.

BARRED PLYMOUTH ROCK

HENS AND PULLETS FOR SALE. GEO. F. BLAKE, MAQUOKETA, IOWA.

WHITE P. ROCK EGGS, Fishel strain, direct; score 95%, heavy layers, prices low. Write Martin Johnson, Cambridge, Iowa.

B. P. ROCKS only. Large boned, well bar., good layers, high scoring, prize win., thrifty birds, fair deal. Eggs, \$6, \$1.25; 100, \$3. J. M. Reeder, Earlville, Ia.

BARRED Plymouth Rocks and Golden Wyandottes, and Choice Strawberry plants. Catalog free. J. L. Todd, R. 3, Indianola Ave., Des Moines, Ia.

Eggs From our famous laying strain of White Plymouth Rocks are plentiful and at right prices. Address T. F. MARTIA, - - Maxwell, Iowa.

BARRED ROCKS Have some fine pullets, hens and cockerels for sale. Eggs for hatching in season. Mrs. W. S. Kern, Iowa City, Iowa.

Buff and Barred Rocks 85 large, fine cockerels, extra heavy-boned, scoring 83 to 94%; farm raised. E. C. Rice, Gray, Iowa.

BARRED Rock cockerels, Bradley strain, cockerel mating. Choice stock for sale, from 90% to 91% point birds. H. B. Simpson, Albany, Illinois.

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of choice quality. Address Mrs. M. C. Thompson, Route 2, Atlantic, Ia.

18 B. P. Rock cockerels; strong, vigorous birds, with great size and quality, and narrow, deep barring. Some show birds. C. G. Good, Ogden, Ia.

BARRED ROCK COCKERELS—Scored and Unscored Mrs. J. A. Campbell, R. 3, Maanag, Iowa.

BUFF ROCK Cockerels; 20 choice birds left. Will sell cheap. Fine birds; healthy and vigorous; kept separate. J. H. Kelley, Altoona, Iowa.

BRAHMAS.

Ottumwa POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

COCHINS.

Buff Cochins Exclusively 50 large-framed, shapely, even-colored, well-feathered cockerels at \$2 to \$5. Write W. W. Vaughn - - Marian, Iowa.

BABY CHICKS.

BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

RHODE ISLAND REDS.

S. C. Rhode Island Reds

TOMPKINS' strain. America's finest. Large, long-bodied, vigorous birds. Red to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$3 per 100. Circular free. R. H. DE VAULT, BLOOMFIELD, IOWA.

S. C. Rhode Island Reds

TOMPKINS STRAIN Write for descriptive circular. P. H. Thiel, Renwick, Humboldt Co., Iowa.

Reds—Single and Rose Comb

CHARLES City, 1910; Shanklin, judge. S. C. won first, second pullet, second cockerel, second pen; 4 premiums on 6 entries. Scored range stock eggs, \$5 per 100. Choice yearlings, \$2, \$3 and \$5 per 15. Guaranteed good batch. F. O. Martin, Floyd, Iowa.

R. C. Rhode Island Reds

EXCLUSIVELY. Eggs for hatching from stock scoring 90 to 94%. Write for prices and show record. H. S. Fain, Emmetsburg, Iowa.

S. C. R. I. REDS

BRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. M. Finkenbagen, Ellsworth, Ia.

Rose Comb R. I. Red eggs for hatching, from pullets scoring to 92%, cockerels to 93. Splendid layers. Eggs \$1.50 per 15; \$6 per 100. Address H. E. Huston, Route 4, Iowa Falls, Iowa.

Rose Comb R. I. Island Reds. A few scored cockerels for sale. Eggs from high-scoring birds, \$2 per 15; \$3.50 per 30; \$10 per 100. Mrs. E. C. McCarthy, - Elliott, Iowa.

Single Comb Rhode Island Reds; eggs for hatching; good stock; fine winter layers. Eggs, \$1, \$1.50 and \$2 per sitting; \$4 per 100 from utility flock. L. F. Alison, R. 2, Quincy, Illinois.

SINGLE COMB RHODE ISLAND REDS Pen, \$3; range, \$1.50; 15 eggs, \$1. S. T. BUSSARD, BOX 143, ESSEX, IOWA.

R. C. R. I. Reds. Cherry Red strain. Eggs from 5 pens; also utility yard. Scored cockerels for sale. Harry C. Blake, Maquoketa, Ia.

EGGS From choice mating; Rose Comb R. I. Reds; great laying strain; best of stock. Address A. L. Sanders, Perry, Iowa.

S. C. Rhode Island Reds A choice lot of scored birds for sale; eggs in season. Lee Nichols, R. 4, Woodward, Ia.

Rose Comb Rhode Island Reds. A choice lot of cockerels scored by Todd, for sale. D. E. Witmer - - Polk City, Iowa.

ROSE and Single Comb R. I. Reds; fine bred; high-scoring eggs, 15 for \$1, 50 for \$3, 100 for \$5. Good laying strains. Mrs. T. A. Gough, Bristow, Iowa.

S. C. R. I. Reds Exclusively. Stock for sale; scored or unscored. Eggs in season. J. T. Nicholson, Bellevue, Iowa.

S. C. R. I. Red eggs from high scoring stock, that are proven winter layers; perfect type and color; \$1.25 per 15; \$5 per 100. C. W. Kellogg, Knierim, Iowa.

S. C. R. I. Red Eggs, \$1.50 for 15. A few S. and R. C. cockerels at a bargain. MRS. SOPHIA RADER, LAUREL, IOWA.

S. C. R. I. Red cockerels for sale; scored and unscored. Eggs for sale. Write for prices. Mrs. H. L. Alsop, Sylva, Iowa.

S. C. R. I. Reds 12 fine cockerels at \$2 each; eggs, \$1 per 15; \$5 per 100. Address I. C. Welch, Bedford, Iowa.

LANGSHANS.

EXTRA Big-boned, high-scoring pullets and cks.; Black Langshans, Rhode Island Reds; also eggs. Mrs. H. Osterfoss, Hedrick, Iowa.

COCKERELS. Black Langshans for sale. Single bird \$1.25, six for \$1.00 each. Joseph Kappes, Jr., - - Ashton, Iowa.

TURKEYS.

50 White Holland Turkey toms, extra choice birds. Prices reasonable. Address Mrs. H. A. Sexsmith, Greenfield, Ia.

For Sale M. B. turkeys. Have bred them fifteen years; size, markings and a square deal our motto. Mrs. Harry Davidson, Adrian, Mo.

Mammoth Bronze Turkeys Choice young toms, \$7. J. Nissen, Meservey, Cerro Gordo County, Iowa.

M. B. Turkey toms scoring 93 to 95%, \$6 to \$10; good bronzing, markings and weight. White Rock cks. Sterling Martin, Melrose, Iowa.

MISCELLANEOUS.

COCKERELS

25 SINGLE Comb Rhode Island Red cockerels. 50 Barred Plymouth Rock cockerels. A good many of these are suitable for heading your best pens. Also two mated trios of M. B. turkeys and two pairs of Pekin ducks. I want you to have my egg catalog. Send me your name. E. H. Bodley, Newton, Iowa.

FREE TO CUSTOMERS

TEN CENTS to others. Lesson on color illustrated by feathers. How to mate for best results. Who are fake advertisers. Egg catalog free. Foundation stock from the best eastern and southern strains.

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ROUTE 5. RED OAK, IOWA.

"Both Combs" Rhode Island Red Specialist.

For Sale S. C. Br. cockerels, \$1 each. Rhode Island Red cockerels, \$1 and \$2 each. Address John M. Hall, Williams, Iowa.

MISCELLANEOUS.

249 GOOD COCKERELS

Barred, White and Buff Rocks, White and Golden Wyandottes, Black Langshans, S. C. Buff Orpingtons, Rose and Single Comb R. I. Reds. Order now for eggs and baby chicks. Write me for prices and information. I. M. FISHER, Box 11, Hastings, Neb.

MAMMOTH BRONZE TURKEYS AND PEKIN DUCKS

From Prize-Winning Stock for Sale. George M. Grinstead, Mitchellville, Iowa.

1910 CATALOG FREE

Illustrates and gives prices of 45 varieties land and water fowls and eggs. This book should be in the hands of every person interested in poultry for profit. Address S. A. Hummel, Box 56, Freeport, Ill.

There is Money in Eggs

START right. Get the laying and winning kind. Single Comb White Leghorns, Indian Runner ducks, large White Holland turkeys. Egg catalog free. Mary Culver, R. 1, King City, Missouri

FOR SALE

30 Standard-bred Barred Rock cks., weight 7 to 9 lbs., Shellabarger strain. Price, \$1.50 to \$3 each. 10 large-boned, well-marked M. B. turkey toms; Mo. King strain. Price, \$5.50 to \$7 each. 5 old turkey hens, \$1 each; 1 yr. tom, \$7.50. M. V. Leeper, Redfield, Ia.

Light Brahma Eggs

FIFTEEN for \$1; 45 for \$2.50; 100 for \$5. I guarantee a fair hatch or send another order at half price. I also breed Shetland ponies. Some young colts for sale. Frank P. Healy, Bedford, Iowa.

White H. Turkeys Barred, white; P. Rocks, S. C. W. Leghorns, Pekin and Indian R. ducks, Toulouse geese. Stock and eggs for sale. We won 110 prizes and four silver cups the past year. W. M. Shaw & Co., Monroe, Iowa.

Barred P. Rock cockerels, sired by the cockerel winning first at Cedar Rapids, 1909, and first cock at Oelwein, 1910. Egg and chick circular of Rocks, Reds, W. Cochins, Bantams, S. C. W. Leghorns, Toulouse geese. C. H. Drake, Hazelton, Ia.

"BIRDS THAT LAY AND PAY" R. C. R. I. Reds exclusively; pen 1, trapped, 15 eggs, \$2; pen 2, 15 eggs, \$1.50; incubator lots, \$6 per 100. Bourbon Red turkey eggs, \$5 per 12. MRS. CLIFF SAID, EMBERTON, IOWA.

EGGS for hatching. White Langshans, \$2.50 for 15; White Rocks, \$2 for 15; Buff Cochins, \$3 for 15; Houdans, \$3 for 15; Toulouse geese, \$3 for 10. I guarantee eggs strictly fresh, true to name; carefully packed. Rev. E. S. Swenson, Box 61, R. 2, Alta, Ia.

48 Breeds chickens, ducks, geese, turkeys. Fowls, eggs, and incubators at low prices. America's greatest poultry farm. Send 4c for the 30-page 1910 Annual Poultry Book. R. F. Neubert, Box 807, Mankato, Minn.

FOR SALE—W. P. ROCKS AND S. C. W. LEGHORNS COCKERELS and cockerels \$2 and up. Hens \$1 each or \$10 dozen. Mrs. Jennie P. Irvin, Montezuma, Ia.

ROUEN DUCKS For sale. Show birds or good breeding stock. Good B. P. Rock cockerels; large-boned, nicely-banded. Prices reasonable. J. H. Haworth, Moulton, Iowa.

BUFF COCHIN B. P. Rock cockerels, and White Holland toms, sired by a 35 lb. tom, and Pekin ducks. For good birds at a low price address Mrs. J. E. Baxter, Walnut Grove, Minn.

BARRED PLYMOUTH ROCKS Have some choice hens of leading strains. Also 35 Toulouse geese, best of stock. Mrs. James Cockerton, Whiting, Ia.

CHOICE B. P. ROCK COCKERELS M. B. turkey toms; B. P. Rock eggs for hatching. Address Mrs. P. L. Carroll, Hampton, Iowa.

FOR SALE Barred Rock cockerels; S. C. R. I. Red cks. and pullets, R. C. cks., Kellestrass, W. Orpington hens, pullets and chicks. F. Dorrell, Luther, Iowa.

EGGS—All varieties; Leghorns, R. I. R., Orp's, Wyandottes, Moricas, Rocks, ducks, geese, turkeys. Cat. free. Wm. Koell & Co., Box M, Hampton, Ia.

MAMMOTH Bronze turkeys. Large, heavy-boned birds. Some B. Langshan cockerels; also W. Wyandottes. Mrs. A. Kitson, R. 2, Audubon, Iowa.

Choice W. Wyandottes and Mammoth Pekin strain. E. S. DYAS, BELLEVUE, IOWA.

Choice Silver Laced Wyandottes and Pekin ducks; scored; unscored. Prices right. Mrs. F. R. McLaughlin, Manning, Ia.

Barred Plymouth Rock, White Wyandotte, Houdan cockerels, \$1.50, \$2, \$2.50 each. Hens also. W. C. Frazier, Atlantic, Cass County, Iowa.

PRIZE-WINNING Pekin ducks for sale; never have been beaten where shown. Also S. L. W. cks. Mrs. Edith Eygabroad, R. 1, Grundy Center, Ia.

Buff Rock cockerels, Pekin ducks and Embden geese. Prices reasonable. Eggs in season. Mrs. Charles Steddon, Lacey, Iowa.

B. P. Rock cks., \$1.25 to \$3 each; and a few Rouen drakes for sale at \$1.50 each. Also booking orders for eggs. Robt. Hunt, Earlville, Iowa.

ROSE Comb Rhode Island Red, White Orpington R. cockerels; heavy-boned, extra nice large birds. Also Toulouse geese. P. F. Smith, Montezuma, Ia.

WHITE HOLLAND turkey toms, Black Langshan cks. and S. C. B. Minorca cks. for sale. Best of stock. Mr. H. A. Wohlsdorf, Lawler, Iowa.

White P. Rock hens and Pekin duck hens, \$1 each. White Holland toms and Embden ganders. S. M. Compton, Route 3, Newton, Iowa.

BARRED ROCK S. C. RHODE ISLAND COCKERELS For sale cheap. E. E. HEALY, Bedford, Iowa.

BLACK and W. Langshans, Buff Orp's, R. C. R. I. Reds, Light Brahmas, scored or unscored. Prices right. Mrs. S. E. Newell, L. G. Audubon, Iowa.

EGGS for hatching from leading varieties of chickens, ducks, geese, turkeys. Write for catalogs. Ervin & J. W. Trettin, Grafton, Iowa.

THE FARMER A BUSINESS MAN.

The modern farmer must plan his campaign years ahead so that he may carry on such a rotation of crops that his soil fertility may be built up while at the same time he is obtaining the most profitable yields from his land. He must know that corn, for instance, exhausts the nitrogen from the soil, while alfalfa consumes the mineral elements. He must plan accordingly so that his farm shall not be used up. Extreme care must be taken all this time so that the rotation shall not put the farm some year into crops that cannot profitably be produced. He ought to keep cost sheets so that he shall know, for example, whether he can buy his corn more economically than he can produce it.

In deciding on what live stock to maintain he must have cost figures so that he may know just the most profitable number of sheep or hogs that he can raise. If he is keeping cows he ought to have data to enable him to decide whether it is better for him to sell the whole milk and deplete the fertility of the soil, or to dispose only of the butter, feeding the skim milk to hogs and building up soil fertility.

Happily agricultural information is now so abundant and so systematized in the United States Department of Agriculture and in the state agricultural colleges and experiment stations that every farmer may receive expert advice on any problem of farm management that is likely to arise. This information would be at the disposal of any man from town who should decide that a life of comfortable independence on the farm was preferable to his present job. The city dweller who flees to the land need have no fears that farming will not absorb all the mental energy he owns. The good farmer is a real captain of industry.—Kansas City Star.

A WORD FOR THE PURE BRED.

To the Editor of The Homestead:

We believe that the day of the "scrub" in cattle raising is fast coming to a close, especially so in the "beef breeds." Here in Iowa where land is worth from \$100 to \$150 per acre and considering the price of feed during the last few years, the farmer is fast finding out that there is no money in raising a "scrub" when a pure-bred will not cost any more in production and will bring, at the very least, 50 per cent more when it comes to selling them. We have been taking note this winter of a herd of pure-bred Short-horn cattle with a few scrubs mixed in. All have had the same care and feed and yet any one with no experience whatever can walk among those cattle and pick out the pure breeds. Even the cows that have been suckling calves in better condition than the scrubs with no calves to care for. The time is coming and coming fast when the greater majority of farmers will awake to the fact that it takes a pure bred to win out. With two million cattle short in the United States there is bound to be

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

RESOLVE that in this year, 1910, you will start out for yourself, and buy a farm in the Hampden district of North Dakota, where great crops of wheat quickly pay for the land. Think of it, choicest improved and unimproved farms, \$20 to \$35 an acre, on easiest terms. Write for interesting, illustrated descriptive literature. See what a little money will do. Active selling agents wanted everywhere. The Shipley Investment Co., Box 303, Hampden, Ramsey Co., North Dakota.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$3 per acre, only one-fortieth cash, 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands, J. J. Snyder, School Land Locator, 505 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

DENVER garden homes, with advantages of city life and income assured. Four miles southeast of state capital, post office and Denver city market. Unlimited demand for fruit and garden truck. Water, street car facilities. Write today for folder, map and plan to secure five acre tract at your own terms. Park Hill Heights Realty Co., 1759 Stout Street, Denver, Colorado.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 10c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traier, Iowa.

FREE GOVERNMENT farms. Our official 112 page book "Vacant Government Land" describes every acre in every county in U. S. A million acres vacant. How to secure 160 acres by entry, 1909 diagrams. All about irrigated farms. Price 25c postpaid. Webb Pub. Co., (Sta. 4.) St. Paul, Minnesota.

300 ACRES. 4 dwelling houses. Main one 18 rooms, finished in black walnut and chestnut, heated by steam, 3 barns, carriage house, plenty alfalfa, 8 acres orchard, on macadam road. A gentleman's farm. Price \$30,000; terms. Hall's Farm Agency, Owego, Tioga Co., New York.

GOLD VALLEY, North Dakota, farm for sale. Contains eight hundred acres, 250 acres will be cropped this year, two sets improvements. All fenced and cross fenced, all tillable. Bargain at \$25 per acre, no trades. McMahon, Endicott, St. Paul, Minnesota.

FOR SALE—Improved half section good land in Brown County, South Dakota, only eight miles from good town; close to school. Price, \$27.50 per acre, half cash, balance 6%. This is a snap. Address W. L. Cochran, owner, Aberdeen, South Dakota.

KANSAS FARMS, Kansas farms, Kansas farms, Layton Bros., Goodland, Kansas, have large list of farms for sale. Write for list and descriptions. Buy a home. Be independent when old.

FULL SECTION, Kiddle County, North Dakota; lies well; good soil; improved farms on two sides; \$11.50 per acre; worth \$16; easy terms. Kane-Kober Company, St. Paul, Minnesota.

HARPER CO. 160 acre farm, good house and stable, good corn and alfalfa land. Price \$35 per acre. Write for description. Jas. W. Lysor, Route 1, Anthony, Kansas.

OKLAHOMA. Custer Co. 320a grain and stock farm; 2 miles railroad town. Good improvements, well watered. \$30.00a. C. A. Fisher, (Owner), Custer, Oklahoma.

STOP RENTING—Buy a farm in Stanley or Hand County, South Dakota. Prices, \$15 to \$35 per acre. Jay P. Morrill, Palace Building, Minneapolis, Minnesota.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

GOOD improved and unimproved farms for sale right in the celebrated fruit belt in Michigan. Write me. James Greacen, Kalkaska, Michigan.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

IF YOU want good and cheap farm lands, write us. We have them. Walter A. Evans & Company, Kiowa and Prior, Oklahoma.

BARGAINS in farms and school leases, good soil, fine climate, short winters. Circulars free. A. J. Haskins, Hunter, Oklahoma.

FOR SALE—Two hundred forty acres; also for rent, good farm; all near Austin, Minnesota. E. G. Sachse, Cherokee, Iowa.

a demand equal to, or greater than ever before. F. B. Gerard. Montgomery county, Iowa.

REAL ESTATE.

FOR SALE—640 acres of the finest western Canadian wheat land. One mile from Girvin, Saskatchewan. Four hundred acres cultivated, forty acres meadow, balance prairie. Canadian and American farmers on surrounding farms. Six-room frame house, barn and granary; eight head of stock and a complete outfit of farm implements. Terms: Small cash payment, balance yearly crop payments. Write the Walsh Land Co., 517 Union Bank Building, Winnipeg, Manitoba.

SNAP in 160 acres hard maple land; good clay soil with fine spring, lots of cord wood, set of log buildings and 10 acres chopped off; close to good railroad town in Polk county, Wisconsin. Splendid dairy country. Only 60 miles from the Twin Cities; \$14 per acre, \$500 down, balance on long time at 6 per cent. Owner, O. C., Lock Box "A," St. Croix Falls, Wisconsin.

GET A HOME in Kimball county Nebraska, good climate, crops and soil, best place to buy a home in easy reach of the center, best place to invest. I own 4,400 acres there, can sell you good level farm lands \$8 to \$12. Grazing land \$4 up, easy terms. Improved farms \$18 up, 3 to 12 miles of town. C. E. Lockwood, Albion, Nebraska.

FOR SALE—400 acres highly improved farm, 275 acres ready for crop; buildings worth \$3,500; best water in country; best soil; 5 miles from new town; telephone. Price, with full line machinery, including large threshing outfit, \$16,000; \$6,000 cash. M. P. Christensen, Route 1, Kensal, North Dakota.

WANT A FARM in Oregon? Of course you do. We claim to have the most complete list of Willamette Valley farms to be seen in the state. Be sure to make us a call when you reach Portland. Write us today for list and prices. Starr & Foster, 1022 Board of Trade, Portland, Oregon.

160 ACRES, level black loam, 75 acres in cultivation, all fenced and cross fenced; house, barn, 1 mile school, 5 miles Goodwell; \$1,750; have cheap relinquishments and farms to rent; will be glad to mail circulars and pictures free. Address Wood Clopton, Goodwell, Oklahoma.

FOR SALE—Two adjoining, well improved farms of 160 acres in Redwood county; good soil, all tillable; big groves, good orchard and school; rural route and telephone; 5 miles to good market. \$55 per acre. Write to owner, Geo. H. Moll, Springfield, Minnesota.

THE RICHEST farms where everything grows large in Southeastern Kansas, 120 miles south of Kansas City and 30 miles west of Missouri; prices away below their value; maps and printed information; no trades. Thos. D. Hubbard, Erie, Kansas.

LAND FOR SALE in the Twin Falls tract of the famous Snake River Valley of Southern Idaho, where crop failures are unknown. The country for the homesteeker and the investor. For prices and particulars write Graves & Finch, Filer, Idaho.

READ—200 acres, two miles of county seat; fine home. Write us. 160 acres, 5 miles of county seat; well improved; trade for Western Kansas land. Fine bargains in level wheat land for speculators. Yours for business, Layton Bros., Osborne, Kansas.

HOMESTEADS, timber claims, coal lands in famous Musselshell Valley, Montana. Reasonable location fees. Ranches, farms and business locations for sale. Musselshell Development Co., Musselshell, Montana.

NORTH DAKOTA LANDS on ten years' time, crop payments at 6 per cent interest. Stutsman Co. Rich soil. Map and particulars on request. Address Frank L. Kellogg, Cleveland, North Dakota.

CORN, wheat and all staple crops grow to perfection here in the garden spot of Oklahoma. Prices reasonable. Write for list and descriptive literature. C. E. Poehel, Newkirk, Oklahoma.

4,480 ACRES rich, smooth valley land near two R. R. Two miles from LaVale. \$3 per acre, \$1,000 cash, balance four annual payments, \$5. Niela Dunson Realty Co., LaVale, Texas.

FOR SALE—Land. 400, 120, 160, 160, 280 and 320 acres, all in Becker county, Minn. All more or less improved. Little good; easy terms. Write J. J. Breuer, Osage, Minn.

\$5 PER ACRE for 480 acres land in Crooks Co., Kansas; 360 acres in growing wheat; 1/2 of crop with land. Write for list of 50 farms. C. H. Dewey, Stockton, Kansas.

ROBERTS COUNTY, South Dakota farm for sale; 324 acres. Snap at \$50 per acre. Deal direct with owner; no commission. Address O. B., care of this paper.

WE HAVE fine Colonization lands for sale in Texas and Old Mexico for farming, fruits and stock raising. James Greacen, Kalkaska, Michigan.

EASY MONEY farming in Texas on Palo Blanco Gardens. \$10 per month. Write Street Realty Co. (Inc.), San Antonio, Texas, for free booklet.

500,000 ACRES of good grain land to be had under the homestead act near here; good climate. Address Business Men's Club, Columbus, Montana.

200 ACRES good land, 3 sets of buildings, or 3 farms in one. Price only \$1,400. Lewis Farm Agency, Candor, Tioga County, N. Y.

SNAPS! SOUTH DAKOTA, North Dakota, Montana. Write us your wants. Lists and maps free. P. I. Neister & Co., Sioux Falls, S. D.

FOR SALE—Farm and ranch lands in famous Judith Basin, Montana. Write me for particulars. H. M. Johnson, Lewistown, Montana.

FOR SALE—80 acres close to Paola; new buildings; high state of cultivation; plenty of water; \$90 per acre. Box 522, Paola, Kansas.

TEXAS Gulf Coast prairie land; good agricultural land; well located; \$17 to \$37.50 per acre. G. T. Reinhardt, East Bernard, Texas.

FARM FOR SALE—Near town, level, plenty water. Information that will surprise you. S. L. Root, De Smet, South Dakota.

HAVE moved to town, and will sell three quarter section farm, either part or all. M. M. Cook, Monango, North Dakota.

SNAP—Montana choice fruit and agricultural ranches. For particulars, write Miller & Clement, Belfry, Montana.

FOR EXCHANGES, quick sales and large list, address Room 6, Continental block, Omaha, Neb.

BOOK of 500 farms and other property to trade, sent free. Graham Brothers, Eldorado, Kansas.

GOOD ALFALFA and wheat lands. Send for lists. Stevens & Ruby, Stockton, Kansas.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

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FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successful coon, wolf and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

POULTRY.

50 VARIETIES, fine pure bred chickens, ducks, geese, turkeys, Northern raised hardy, the greatest winter laying and prize strain in America, 5,000 prizes. Fowls, eggs, incubators, poultry and bee supplies, at lowest price. Send 4c stamp for our Big Illustrated Book. It tells all, worth dollars. Ziemers Poultry and Bee Farm, Austin, Minnesota.

BARRED Plymouth Rocks, the kind that win. Large boned, vigorous, stylish, farm-raised birds, with narrow blue bars to the skin, and bred for heavy egg production. Am giving one rare bargain. Write me your wants. Mrs. A. A. Berry, Clarinda, Iowa.

GOLDEN BUFF Leghorns. None better. O. K. every way. Fresh eggs shipped weekly, 30 for \$3.00. Each order, whenever sent enclosing my advertisement from this week's paper, gets valuable premium of eggs. Agnes Smiley, Braddyville, Ia.

WHITE ROCK cockerels; big boned, vigorous, farm-raised birds to head your best pens. Wonderful egg producing strain. Be friendly. Write me your wants today. Mrs. A. A. Berry, Clarinda, Ia.

BARRED and **BUFF** Rocks, R. I. Reds and Partridge Wyandottes; eggs \$2 and \$3 per 15. Fine birds, none better anywhere. C. S. Eastwood, Heron Lake, Minnesota.

S. C. BUFF Leghorn cockerels from laying and prize winning strains. Prices reasonable, also eggs in season. E. R. Thomas & Son, Nashotah, Wis.

KNAPP'S S. C. Brown Leghorns have quality. Four pens mated for exhibition females. Send for my mating list. M. W. Knapp, Aurora, Iowa.

BUFF ORPINGTONS, imported stock. Columbian Wyandottes, great laying strain. Stock and eggs for sale. J. S. Catterston, Sutton, Nebraska.

ROSE COMB Rhode Island Red eggs from pen scoring 90 to 93; 100 \$5; 50 \$3; 15 \$1.25. Wm. Graham, Kirkman, Iowa.

R. C. B. LEIGHORN, exclusively. Cockerels for sale, \$1.00 each. Prize winners. Mrs. J. J. Griffith, Lorinor, Iowa.

S. C. R. I. RED eggs from prize winners at four shows. Cockerels for sale. Herbert Crinn, Bedford, Iowa.

WHITE ROCKS—Prize-winning stock. Cockerels scored and unscored. George Blake, Oelwein, Iowa.

FOR SALE—Barré Plymouth Rock cockerels, \$2 and up. Aye Bros., Grant St., Blair, Nebraska.

SEEDS AND NURSERY STOCK.

EARLY SEED POTATOES. A northern grown, white, flat-eyed, round shaped potato, excellent keeper, grows in the North for market in 70 days, yields from 15 to 25 bushels from one bushel, price \$1.00 a bushel, sacked. Wm. Buehler, R. 4, Medford, Wisconsin. Save address.

PURE BRED Gartin, regenerated oats, Swedish Select oats, Oederbrucker barley, Durum wheat, White Flint and Silver King seed corn for sale. Two good men wanted. My farm for sale. Write me your wants. M. O. Myrick, Bristol, Wisconsin.

SEED OATS—Regenerated Swedish Select, Early Kherson, Swedish Select. (Wisconsin No. 4). America's three best oats. Farmers' price. Recleaned. Sample and circular. Alfred Klein, Lomira, Wis.

250 STRAWBERRY plants, \$1, in three best varieties. Wholesale prices on nursery stock. Catalog free. John F. Dayton, Waukon, Iowa.

BUNKER'S Yellow Dent. Fire dried; tested; high quality; high price. Sample, 10 cents. F. Bunker, Kilbourn, Wisconsin.

HELP WANTED.

"I MADE \$2,400 in about two months," writes one man a few months after becoming my representative in my big co-operative real estate business. No experience necessary. This man had none. I will teach you the business by mail and appoint you my Special Representative. You can work all or part of the time. A splendid opportunity for men without capital to become independent. Write for my offer and free book. H. D. Hurd, Pres., Dwight building, Kansas City, Missouri.

GOVERNMENT farmers wanted. Salary \$800 yearly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42 F. St. Louis, Missouri.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination; 100 free scholarships. Write for schedule and free trial lesson. Ozment, Dept. 42 R. St. Louis, Missouri.

WANTED—Good farm hand. Good wages. No family except myself and wife. One other hand. L. H. Pettit, Danvers, Minn.

CATTLE.

GUERNSEYS—"The Butter Breed"—choice youngsters; both sexes; from official record and advanced registry ancestors. A. H. Hinman, Allen-ville, Wisconsin.

REGISTERED cattle wanted in exchange for quarter section. Wisconsin sugar beet land; close railroad; clear of encumbrance. R. H. Dosh, Stuart, Iowa.

DEHORN properly by buying a 2 year old Double Standard Polled Hereford bull, of M. B. Waters, West Liberty, Iowa.

CHOICE Polled Durhams. No scurs. F. Bunker, Kilbourn, Wisconsin.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. A. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Clerks in Washington. Send description of invention for free opinion.

AGENTS WANTED.

WE PAY \$50 a month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bigler Company, X425, Springfield, Illinois.

HORSES AND JACKS.

FOR SALE—Black Percheron stallion, 8 years old; also yearling; both black and registered. Handford & Kuntz, Granger, Missouri.

POST CARDS.

FINE EASTER and Birthday Post Cards, send 10 cents for 30 samples. German American Post Card Co., Dept. 5, Burlington, Iowa.

MISCELLANEOUS.

PIANO and **ORGAN** playing made easy. On receipt of 50 cents we will mail you one of our Ideal Chord Charts, enabling you to play all chords on the piano or organ without the aid of a teacher. Ideal Chord Chart Co., Box 445, Marion, Indiana.

SHETLAND ponies, poultry, pigeons, ferrets, pheasants, rabbits, guinea pigs, goats, cats, dogs, incubators and brooders. 4 cent stamp for circulars. Address Col. Joseph Leffel, Springfield, Ohio.

LADIES make shields at home, \$10 per 100. Work sent prepaid to reliable women. Particulars for stamped envelope. Eureka Co., Dept. 32, Kalamazoo, Michigan.

WRITE to King Publishing Co., Cedar Rapids, Iowa, for information describing the best Farmers' Account Book published.

FOR SALE—Share Standard Poland China Record and nine vol. First draft of \$25 gets them. C. H. Pendleton, Essex, Iowa.



LORD BRUMMEL NO. 1742

Lord Brummel, a noted Anxiety-bred Hereford bull, will furnish much good stuff for the sale of Herefords to be held at Kansas City, Mo., on March 8th and 9th by the following breeders: C. W. Armour, Kansas City, Mo.; S. L. Standish, Hume, Mo.; Benton Gabbert, Dearborn, Mo.; S. J. Gabbert, Dearborn, Mo.; C. N. Moore, Lee's Summit, Mo.; J. W. Lenox, Lake City, Mo.; W. A. Dallmeyer, Jefferson City, Mo.; R. T. Thornton, Kansas City, Mo.; Unkhouser Estate, Plattsburg, Mo.; R. H. Hazlett, Eldorado, Kan.; T. W. Carmichael, Odessa, Mo.; Makin Bros., Grandview, Mo.; Scott & March, Belton, Mo.; James A. Gibson, Odessa, Mo.; Egger Hereford Cattle Co., Appleton, Mo. For catalogs address Mr. R. T. Thornton, 1309 E. 15th St., Kansas City, Mo.



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

ROUND WORMS IN SHEEP.

Dr. Melvin, chief of the national bureau of animal industry, points out that in experiments relative to the prevention of parasitic infection in lambs, it was found that infection with nodular worms was entirely avoided by keeping the lambs and ewes separate in adjacent pastures, with a bare earth pen between, into which the lambs until weaned were frequently turned with the ewes for suckling, the animals being returned to their proper

pastures after each suckling period. At the age of twelve months the weight of the lambs averaged eighty-two pounds, which was twelve pounds more than the average weight of other lambs at thirteen months which had occupied the same pasture as their mothers. The former, when killed at the age of about one year, were found to be very slightly infested with stomach worms and hookworms and entirely free from infection with nodular worms as already stated, while of the latter some died at the age of six to

eight months heavily infested with stomach worms, and the survivors, when killed at the age of about one year, were all infested in a moderate degree with stomach worms, hookworms and nodular worms.

In another experiment, lambs and their mothers were kept together, but changed at intervals to different pastures, and the lambs when weaned were placed finally in a pasture separate from the ewes. At the age of one year these lambs showed a slight infection with stomach worms, hookworms, and nodular worms. Their weight averaged seventy-eight pounds, or eight pounds more than that of the lambs mentioned above which were kept with their mothers in one pasture without change.

These experiments have shown that the degree of parasitic infection in lambs can be reduced by changing the flock at intervals to fresh pasture, and that the suckling-pen method gives almost perfect protection from infection with internal parasites.

Experiments in which tobacco was

fed to lambs during a period of several months indicated that this remedy, which has been more or less highly recommended during the last two or three years, is inefficient against stomach worms. At the close of the experiment there was no appreciable difference in the condition of lambs which were fed tobacco and of those which were not, stomach worms being fully as common in the former as in the latter.

\$7.50

Buy the World's Best

Horse Clipping Machine

Farm horses need clipping occasionally. Horse experts say and prove that. They work better, sleep better, and keep in better condition when the thick coat of hair is removed. They are less liable to catch cold after a hard day's work as they dry out quicker. \$7.50 is for the Stewart No. 1 complete, ready for use, and includes six feet of highest grade flexible shaft and the famous Stewart One-nut Tension Knife.

CLIP YOUR HORSES WITH A STEWART

If you want a low priced machine we can sell you one for \$5.00. This is the best machine made except the Stewart No. 1. If you want the BEST VALUE you NEED the STEWART No. 1 BALL BEARING Horse Clipping Machine.



Complete for \$7.50

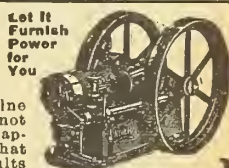
We have made the Stewart so that any person can clip horses by guiding the knives over the horse while the crank is turned. We have made the Stewart durable enough to last a lifetime by enclosing working parts away from dirt and dust, and cutting the gears from the solid steel bar and making them file hard. We have made it of so few parts that we can sell it for \$7.50, the lowest price ever made on a truly good clipping machine.

Order from your dealer or send your order and \$2.00 to us and receive machine C. O. D. for balance. Catalog on request.

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Getting the most engine for your money does not mean buying the cheapest—but an engine that will give reliable results year in, year out—speed, steady and uniform—absolute interchangeability of parts—actual power, equal rating. Every requirement of the man who wants a simple, reliable engine is met by the

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Sold Under Our Absolute Guarantee

Will lighten the labor of pumping, grinding, shelling and all kinds of farm work.

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SHEEP.

Ewes for Sale

THE IOWA STATE COLLEGE is offering for sale 50 head of pure-bred and grade ewes, mostly Shropshires, at very reasonable prices. Address

DEPARTMENT OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.

Registered Shropshire Rams and Ewes For Sale. The best of breeding and quality. Best imported rams at head of flock. Willard Miller, Anita, Iowa.

CLOSING OUT SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. W. C. Frazier, Atlantic, Cass Co., Iowa.

When writing to advertisers please mention this paper.



BROOKMONT FARM, ODEBOLT, IOWA.

LOOKING AROUND THE NOTED HEREFORD FARM—

The Brookmont Farm, at Odebolt, Iowa, is one of those institutions whose magnitude and importance, although of the first order, fail to receive general recognition. It is of sufficient interest, however, to have induced, a few years ago, a visit from a delegation of German noblemen who were making a tour of the United States for the purpose of investigating agricultural methods at their best. The Brookmont Farm was the one private farm in the state of Iowa which was considered worthy of a visit. The illustrations on this page show many sightseers on the farm. The engravings, however, are merely suggestive, as the points of interest

that are well worth the investigation of all farmers are so many that they could not be reproduced in many times the space which we have devoted to this. The Brookmont Farm includes something like 7,000 acres of what is perhaps the choicest of Iowa lands. The equipment has been kept at a high standard. The system employed has called for the accompaniments of large herds of cattle and hogs, and the plans followed have been just such as would be most successful for the ordinary farmer on a quarter section. Success has been gained at every point. Mr. A. E. Cook, the proprietor, is thoroughly interested in his farm. He is also

interested in the advancement of agriculture. With the hope that he may be of some service he makes a general invitation to the public to come to Brookmont, March 15th and 16th, and devote the time to an investigation of the farm, its buildings and the manner in which it is conducted. Incidentally a large draft of pure-bred Hereford cattle will be disposed of on each day of the days mentioned. Abundant time, however, will be offered in the forenoon of each day to make a thorough investigation. Mr. Cook will entertain all visitors without any cost to them and give them a cordial welcome beside. See advertisement on page 55.

Cadillac costs less for upkeep than any other automobile

Remarkable record submitted by 75 Cadillac "Thirty" owners in New York metropolitan district who have driven their cars 398,884 miles at a total cost for mechanical repairs of \$53.21, averaging 71 cents per car.

Equivalent to 16 times around the world—398,884 miles—at a total repair cost of \$53.21!

That is the amazing record revealed by statistics just compiled from the experiences of 75 Cadillac "Thirty" owners in New York City and vicinity.

It is doubtful if the entire history of travel and transportation—steam, electric or gasoline—can show a case of parallel economy.

There was in this instance no special striving to attain a minimum.

The 75 owners went their separate ways with their 75 Cadillac "Thirty" cars, each without reference to the other.

They took no special precautions, but drove where they pleased, when they pleased, how they pleased, without the slightest idea that their experience was to be made a matter of record.

At the close of 1909 statistics were collected and compiled from the signed statements of the 75 users.

It was found that the 75 cars had traveled a total distance of 398,884 miles, or a distance equivalent to 16 trips around the world.

Forty-six of the owners had no repair cost whatever—not a single penny—in spite of the fact that some of them had driven their cars as much as 18,000 miles.

The highest individual repair charge for the entire year was that of one user, whose car cost him—for special reasons which did not reflect upon the construction in any way—\$10, the distance it carried being 9,000 miles.

Eleven of the others expended during the year from 25 cents to 50 cents. The average distance traveled was 5,318 miles per car, yet the average repair expense was less than 71 cents each.

The signed statement of these 75

users showed further that the average gasoline consumption for the touring car was one gallon for each 15 miles of travel and one quart of oil for each 17½ miles of travel. The Demi-Tonneau car showed an average of 17½ miles for each gallon of gasoline and 200 miles for each quart of oil. Some users obtained 20 or more miles for each gallon of gasoline, but the figures first given are averages.

There is no disguising the fact that this record has proven a revelation, even to automobile manufacturers themselves.

It proves beyond a doubt what the Cadillac company has always maintained, that the elements in motor car construction which are absolutely necessary to economy and immunity from repairs are, scientific design, standardization, accuracy of workmanship and correct alignment. Also that necessity for repairs is the result of poor design, inaccuracy of workmanship, ill-fitting and incorrectly aligned parts.

A year or more ago they proved before the Royal Automobile club of London that three Cadillacs could be torn down; all the parts thrown in a pile; a portion of these parts discarded and new ones substituted, and the three cars built up again from the heap of parts to run with absolute sweetness and without so much as an iota of looseness.

For this the Cadillac was awarded the Dewar Trophy.

And now comes another demonstration which simply emphasizes the fact that the convictions of the Cadillac company as to the essentials of a long-lived, serviceable and economical car are correct.

Cadillac measurements are finer in a greater proportion of essential parts than those of any other car in the world—finer than the costliest cars made.

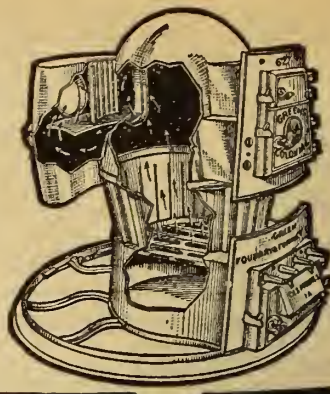
HARVESTING MACHINERY FOR SMALL FARMERS.

To the Editor of The Homestead:

In this day, when many people are trying to find out what is the matter with the farmer, I, too, would like to offer a few words about farm machinery, particularly harvesting machinery. So far, inventive energy has almost all been expended to furnish machinery to do things on a big scale; in other words, to cater to the big farmers' wishes and requirements. Why can't harvesting and thrashing machinery be made on a small scale so that the little or common farmer could stand some show? A self-binder like \$30 or \$40, on the order of the mowing machine, even if it didn't cut over a three-foot swath, would encourage the small farmer to raise small grain. Also, some simple, practical machine of small capacity, I should think, could be made that would thrash the grain, even if it didn't thrash over fifty bushels a day. Look what it would mean in clover seed alone. Even should a farmer raise five or ten bushels of clover seed, he couldn't get it hulled (that is, in my community), for love or money. If he could thrash it himself and others could do the same by owning a cheap, practical machine, even if small capacity, it would not be long until \$10 and \$12 a bushel clover seed would be a thing of the past. I could name twenty-five small farmers in my neighborhood who raise little or no small grain, to three or four who do, simply because it is out of the question to get it harvested. They cannot own a \$125 self-binder, and they cannot depend on any one here for one, and it is next to impossible to gather up a lot of hands and get a thrasher to pull in for a small amount in the fall.

I will give you my experience two years ago. I live in Andrew county, Mo. I farm eighty acres (or try to). I sowed ten acres of oats in the spring, for which I paid fifty cents a bushel for the seed. I expected to have trouble in getting it cut, so I went early to a neighbor owning a binder and asked him if he would cut my oats. He merely promised conditionally, that is, he gave me to understand that he didn't want to, but if conditions were just right and he got his own grain cut and had time, etc., he might cut mine, but not to depend too much on him. So I was a little leery and went to a neighbor farther away who had a binder, with about sixty acres, all told, to cut. I said, "Mr. L—, will you cut my oats for me when the time comes?" "Well," he answered, "I don't want to cut out this year, but if you can't get anyone else, maybe I can manage to." So I had to be content with these promises. The time came on for cutting, the oats had done fairly well, would average about twenty bushels, I guess, if I had saved them. I went to see the last mentioned man first. He told me it was impossible, as haying was right onto him. I then went to the first one. He hesitated, but finally, as he was going to pull right by my house to cut a little grain for a relative, after I almost got on my knees and begged, he said he would cut them. I waited; the oats were getting ripe and going down. I went twice to see him, and finally, one afternoon, he pulled into the field at one o'clock and pulled out again at sundown. I furnished two horses and after supper I gave him \$7.50, or seventy-five cents an acre, for the job, and for you know, he has hardly spoken to me since. Besides, I lost quite a little grain that was down, by waiting so long. I could have cut them with a mower for feed, but I waited to get my seed back, anyway. When fall came I saw a thrashing outfit going through the neighborhood and they said they couldn't pull down (three-quarters of a mile) to my place to thrash so small an amount, but if I would haul it up to T—'s when they thrashed there they would thrash it. I spoke to T— about it. He began to make excuses and said he didn't see how we could figure on the help, etc. Out of patience, I gave up in disgust and went home and fed my oats out of the sheaf.

Now my land is worn in places. I haul all the manure I have on it, but



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Is the most economical. The easiest of operation—a fuel and labor saver. The Green combines all the good features of the rest, with many exclusive features which are the result of 24 years of furnace manufacturing. In 24 years the Green has successfully solved every heating problem. Constant experimenting and energetic research have added new features until today it is known as the most nearly perfect furnace made. The grate is composed of four bars, any one of which may be turned at a time or all as may be required. The Green burns all fuel to a clean ash. No clinkers remain. The Green is a quicker heater. The hot air chamber has a greater capacity owing to its shape, than the ordinary furnace, giving a greater quantity of air to change to heat.

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We will send you the name of the dealer who handles the Green in your town so that you can go and see it for yourself. This big catalog explains all about heating, installing furnaces and how the Green is made. How each individual part is tried, tested and fitted before the furnace leaves the foundry. It's yours for the asking.

OUR GUARANTEE:

Every furnace is guaranteed to be perfect in material and workmanship and to work right if installed properly.

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Big Profits from Cheap Lands in Eastern Colorado

Eastern Colorado—the wonderful cattle country, great because of great crops of nutritious grasses and fine water. Better results are obtained in the feed-lots of Eastern Colorado than from any other district.

The best and strongest horses are raised solely on native grasses without prepared food, and bring fancy prices for cavalry purposes and general use.

Conditions are ideal for sheep raising. Mild winters—plenty of sunshine—abundant pure water, rich grasses, alfalfa, cow peas, kaffir corn, broom corn, milo maize and cane through all the year.

Hogs thrive—no cholera or other diseases that attack swine in lower altitudes. Hogs raised on alfalfa, fattened on corn raised on the same farm, cost \$4 per head (including first cost of parent stock) and sell readily at top prices.

The climate of Eastern Colorado is the healthiest in the world for man and beast. Good churches, good schools and splendid markets.

Let me tell you more about Colorado and other sections along the Rock Island. I want to point you to success. Send me your address, tell me the kind of farming you prefer, and I will tell you about others who have quit paying rent and now are living in healthy happy homes of their own. Write today.

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Who weighs the products that you buy and sell? If you use somebody else's scales, you're going more or less "by guesswork." Install an Osgood Scale of your own and KNOW your weight—get full value for everything. Many styles to select from. Prices within your reach.

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Two Perfect Tools In One

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The most useful device on the farm. A perfect hoist for light work. Double strength. Equipped with patent adjustable lock for various-sized ropes—the only hoist made operating with one rope entirely. Movement to right or left engages or disengages the load. Heavy chains of extra length for use on large corner posts. Wire grips that will hold any wire. Provided with 1 1/2-inch pure Manila rope. Look for the trade mark. Write today for our Clincher Free Trial Offer.

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Mail postal at once to get the book that tells just what you want to know about good roads—how to get them quickest—at least cost; what bad roads cost and what good roads save; how to keep roads in most perfect condition; shows accurate photographs of what Glide Road Machines have done. Send your name in now on a postal. Book tells about the most practical and economical

GLIDE ROAD MACHINE
Cuts dirt from high places and carries it to low ones. Works equally well at any time and levels permanently. Turns dirt from edges back to center. From two to four-horse lighter draft than others. The only perfect one-man, two-horse road machine made. Does work better and cheaper than any other machine—no matter how large or expensive. Blade of high-grade steel—reversible and adjustable 6-inch shoe-runners, flanged, prevent skidding. Lowest-priced good-road machine on the market. **We Pay Freight.** Write postal for book—Free Trial proposition and guarantee.

GLIDE ROAD MACHINE CO.
312 E STREET, MINNEAPOLIS, MINN.



Information About Corn Planters.

Recently there appeared an article in this paper under the heading, "Improvements in Corn Planters." Since then it has been thought advisable to give a clearer description of the Superior Corn Planter. This machine is both edge drop and round-hole drop, both kinds of plates being furnished without extra cost. The user can put an edge drop plate in one hopper and a round-hole plate in the other, and thus demonstrate to his entire satisfaction which does the best work. Right here let us say that seed corn should be graded, and then plates of the size holes best adapted to the work selected. The more uniform the size of kernel the more accurate the work. This Superior Corn Planter has what is termed a "start and stop" motion, which gives the cells in the plates ample time to "fill" properly. The planter stands high enough from the axle to the ground to enable it to pass over stumps or stones. The runner heels can be adjusted one independent of the other, thus insuring the corn being kept in perfect check. The seed spout is of solid, smooth steel, insuring an immediate drop of the seed without scattering the kernels unduly. When the furrow openers are lifted out of the ground the marker is automatically lifted up to enable the user to turn around. The planter is short-coupled and so arranged that it can be "backed up" at will without danger of springing the frame. The corn hoppers, as well as the fertilizer hoppers, tip over completely, thus providing a means of instant examination or change of plates without emptying the hoppers. Our readers should write the manufacturers, The American Seeding-Machine Co., Incorporated, Springfield, Ohio, for their Superior Corn Planter booklet, because we cannot tell about it here. After getting the information wanted, go to your local dealer and insist on seeing the Superior Corn Planter.

it needs crop rotation, and if I could get hold of machinery like I speak of I certainly would never bother a neighbor. And right here let me say that a neighbor never came to me for a favor that I didn't accommodate him if in my power to do so. But you can hardly blame the big farmer for not wanting to cut out for people. These machines are costly and it is hard on them to move them about. They lose time from their own work and cannot afford to do it. On my farm I have fifty acres in cultivation. I have to corn it year after year, as I can't see my way clear yet to own an expensive binder to cut perhaps eight or ten acres of grain a year. Clover seed is almost out of reach. Besides, it takes lots of help and lots of horses, which I do not have. Now I think that if the United States Department of Agriculture wants to do something to help the common farmer, they would do well to look into this matter of practical, one-man harvesting machinery. I would like to see the matter taken up with the implement manufacturers. I believe if we had the little farmer fixed so he could help himself in this respect, it would mean the raising of many thousands more acres of small grain a year, and that is something the country needs to bring prices of living down. This exclusive program of hogs and corn, corn and hogs, year after year, is what is doing the mischief to our farms and the country. Do you think that I will venture again to put in small grain after the trouble I had, until conditions are different? Not by a long shot. And some of my ground is already worn too thin to grow good corn. I, for one, want to see small grain raising made possible and profitable, but it never will be under present conditions of big farms, high-priced binders and arrogant, independent thrashing machine outfits. Put the poorer or great middle class of farmers where they can help themselves by means of the right kind of harvesting machinery and we will see a mighty big change in conditions. We have machinery that fits the small farmer's needs and pocketbook in nearly everything except harvesting machinery. Now, let's have that. Don't think for a minute that all of us farmers are riding in \$3,000 automobiles even if our city cousins are giving us that reputation. I can assure them that most any of them would be ashamed to ride back to town in mine if they came out to see me.

M. S.

CLEARING OUT STUMPS.

A valued correspondent in Illinois asks how best to get rid of soft maple stumps. We think the best and cheapest way depends upon the size of the stumps. In case of small trees, six or eight inches in diameter, cut two feet from the surface, put a strong chain about it near the ground, then bring up the chain giving it a bearing across the top of the stump. Attach a heavy team, and cut any roots that show on the opposite side. By this method small stumps are removed very rapidly.

When it comes to larger sizes, and the trees have been cut quite close to the surface other plans must be made. With very large stumps dynamite is used. And it will successfully split the stump, and loosen the ground, but it leaves much afterwork. In clearing off the stumpage of the old pine forest of Michigan powerful stump pullers are used, and they do the work, at an expense of ten to twenty dollars per acre, according to the density of the original forest.

But such machines can only be used profitably where there are heavy jobs. Where there are but a few to remove, bore an augur hole, six or eight inches deep in the center of stump, and fill it with kerosene oil. Use a two inch augur, and after putting in the oil, insert a small plug at the top to prevent evaporation. Examine it a week later and if the oil is all absorbed, fill it again. At the end of a month, the stump will be so saturated, that when a fire is built over it, it will burn out so deeply that it will no longer bother the plow.

Any of these methods are less laborious than grubbing them out with spade and hoe. But even if you resort to this familiar plan it is best to

The Most Successful Farmer Is a Harriman

How did he convert the Union Pacific from a bankrupt property into the most profitable railroad in the world? By investing money in improvements instead of spending it in repairs. He tore down the wooden bridges and built them of steel and concrete. That saved renewals, wrecks and insurance. He leveled the tracks and reduced the cost of hauling. That saved power. In a few years the Union Pacific Railway was hauling twice the tonnage it did—at one-half the cost.

Farm Profits Are Increased Likewise

by building up the efficiency of the plant. Good farms are too valuable to let run down. But up-keep is expensive. Repairs eat up profits. The solution is cement. Build everything of concrete. It is everlasting. Never needs repairs, paint or water proofing. Is fire-proof. Saves your insurance.



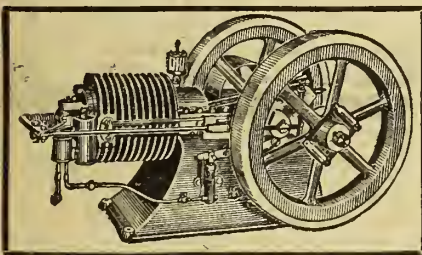
Why Universal Portland Cement?

Because it is fine and uniform in quality—and of granite-like strength. Do not let any dealer offer you a substitute for Universal. Write us if you cannot get it at once. We will also send you regularly our illustrated magazine "Farm Cement News" for the asking. It is full of building hints for the farm. Write to our nearest office.

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even from other air-cooled gasoline engines. We have no dangerous fans requiring power to run and expense to keep in repair. The Gade has no water to freeze or oil to clog. Our patented device draws fresh, cool air directly into combustion chamber, thus keeping the engine cooler than by any other method.

THE GADE GASOLINE ENGINE.

by special arrangement of valves, saves one-third the gasoline. It starts as easily in cold as in hot weather. GUARANTEED to develop rated horse power and remain cool, not for a few hours, but for three or four days' steady run. FREE TRIAL OFFER—Sent on 30 days' free trial. Test for yourself on your own farm. No papers to sign or money to deposit. We pay freight both ways if not satisfactory. Absolutely no risk. Address GADE BROS. MFG. CO. 25 Main St., IOWA FALLS, IA.

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TRY a pair of the only improved collars 12 months at my risk. Save money, time and bother. Cure and prevent sore necks and shoulders. No hames, sweat pads or straps. When not at dealers I sell direct. I call my collar the

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Lightest Draft.
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LET US MAKE YOU A PRICE FREIGHT PREPAID DIRECT TO YOU

Greatest of all handy wagons—tremendous capacity, 2 1/2 tons up. Practically indestructible—lighter in weight than old-style wooden wagons. Investigate before buying any wagon.

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If you pay more for Harness than our price you will pay too much and get no better Harness. You cannot afford to do it. We sell Harness and Saddles direct to the user at wholesale prices, saving him all the middleman's profits. Besides that



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We put the finest quality leather and workmanship in our goods

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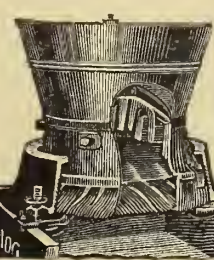
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You can't afford to invest your money in a gasoline engine until you are absolutely sure of making the right selection. For your wife's sake you ought to send today for our Folder No. 130. There's something of interest in it for her, too.

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Two-horse mill has 24-ft. grinding burrs (two set) all grinding at once, and grinds from 25 to 50 bu. per hour. Four horse mill grinds from 60 to 80 bu. per hour.

30,000 Bu. with one set of burrs.—I have ground with one set of burrs more than 30,000 bushels of corn with my Mogul No. 1 Mill, and the burrs are still in good condition.—F. F. Craig, Mt. Carroll, Ill.

Two complete mills in one; has double the capacity and double the durability. Absolutely no friction or gearing. Will earn cost price in three days. The largest ears of corn to these mills are like popcorn to other mills. We manufacture the most durable and fastest grinding line of mills sold, including our Famous Iowa No. 2 for \$12.50. Send for our free catalog.

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have a team ready, to hitch on as soon as you have uncovered a main root.

SUCCESS OF THE TRAVELING LIBRARY.

(Continued from page 7.)

tance that the pictures should be handled with care and packed carefully for return shipment and that some individual shall be responsible in personally supervising this matter.

"Gallery of Masterpieces." This is a collection of forty-eight photo-mezzos, tinted, artistically mounted for wall display, the explanatory text being mounted with each picture. This collection comprises reproductions of some of the best works of the most famous painters previous to the year 1800.

"Venice of Today." This consists of color prints and black and white prints of the pictures by F. Hopkinson Smith for the folio volume entitled "Venice of Today." The text is now reprinted in a small volume entitled "Gondola Days." This collection of forty pictures is suitably mounted for exhibit purposes and is accompanied by a Traveling Library on Venice, when desired.

"Louvre Gallery." Selection has been made of forty of the photo-gravures and colored typogravures contained in the folio volumes entitled "The Great Masters of the Louvre Gallery" and these have been mounted on heavy gray-toned mats. The pictures in the National Museum of the Louvre represent many schools of art with examples of the great masters and the pictures are numbered to be grouped by the school of painting.

"President of the United States." The official portraits of the presidents of the United States, selected from time to time for the walls of the White House, have been reproduced in this series of engravings. Most of them were painted by order of congress, some of the artists being well known, while other portraits cannot be identified as to the artist. An appreciation or review of the life and administration of each president accompanies each portrait, being mounted on the same display card.

TWO LITTERS WITHIN ONE MONTH.

To the Editor of The Homestead:

Did you ever hear of a sow that farrowed two litters of pigs within a month? My neighbor, Charles F. Bessler, has a Duroc sow weighing about 250 pounds, apparently in perfect health and in a good, thrifty condition. On the 20th day of January, 1910, she farrowed seven pigs. They were fully developed, but, as they had no protection and it was a cold night, they chilled to death. On February 11, 1910, the same sow farrowed six pigs. These are fully developed and are doing fine. I would like to know if any of your readers have a sow that can beat this. The male hog was turned in in the fall and ran with the hogs. I have never heard of anything like this before, and wondered if some of your readers could give us a little light on the subject.

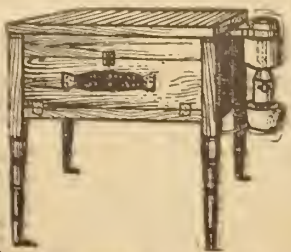
P. F. Schwimley.

A Great Incubator and a Great Offer. The Fairfield incubator, which is advertised on page 33 is a finished product. The manufacturer, Mr. Sam Thompson, believes that an incubator can only accomplish the purposes for which it is built if it is thoroughly made and finished inside and out. The Fairfield is made of California red wood, has a patent steam and hot water circulating system, with double disk regulator, a large, roomy nursery and egg chamber, and the lamp is the best that can be made. Mr. Thompson knows that the Fairfield is right. He proves this by offering to send one to any reader of this paper on a thirty-day trial, and agrees to refund the money to anyone who is not fully satisfied and pleased. The catalog and poultry book which will be sent free gives full particulars of



Sam Thompson.

made. Mr. Thompson knows that the Fairfield is right. He proves this by offering to send one to any reader of this paper on a thirty-day trial, and agrees to refund the money to anyone who is not fully satisfied and pleased. The catalog and poultry book which will be sent free gives full particulars of



Thompson's Incubator.

which will be sent free gives full particulars of

LANDS AND HOMES FOR SALE

RICH SPOT WHERE LAND IS CHEAP

BEAR RIVER VALLEY

We are selling lands in this beautiful section of Southern Idaho at from \$15 to \$45 an acre. This is one of the great land opportunities, as the soil of Bear River Valley has already broken several records in size of yield. We want to show you this land. Please ask us for railroad rates and complete information. Representatives of our company will be at the Chamberlain Hotel, Des Moines, Iowa, and the Merchants Hotel, Omaha, about three days before Homeseekers' excursion dates which are the first and third Tuesdays of each month.

BEAR RIVER VALLEY LAND CO.,
Box 200 MONTPELIER, IDAHO.

SUNNY ALBERTA'S VALLEYS, CANADA

SECURE a farm direct from the Railway Company, in one of these rich valleys, at \$9 per acre up, on most liberal terms. Best climate; mild, open winters, plenty rainfall. Millions acres to select from; close to railways, good towns, well settled districts. Next excursion, Tuesday, March 15th. Round trip rate, \$29. Write at once for booklets, maps and reservation in Canadian Pacific private car, "Calgary." **COLONIZATION DEPARTMENT, CANADIAN PACIFIC RAILWAY,** Gundy & Gundy, General Representatives. Fleming Bldg., Des Moines, Iowa.

MINNESOTA CORN LAND

We have a number of choice farms for sale in Lyon and Murray counties; well improved and the best of soil, at from \$40 up. Terms reasonable. If interested, write **THE WESTBEE, MOORE LAND COMPANY** - - - - - **BALATON, MINNESOTA.**

PRAIRIE LAND

with some timber. Best location in Canada for grain and cattle. Good climate. A PROVEN COUNTRY, with railroads, civilization and good markets. This is the place to make money. Come and see for yourself the fine weather, tall grass, big crops. Easy terms. Cheap excursions. Our map and folder explain Canadian conditions with absolute truthfulness. Write **SCAND. CANADIAN LAND CO.,** 172 Washington St., CHICAGO.

MR. FARMER:

Did you ever own a farm in the blue grass, corn and clover belt? Did you go a little too far? If so, write me. I have corn, clover and blue grass land in northwest Missouri, temperate climate, good improvements, 365 acres, rich soil, fine home, modern improvements, water system, barns and corn cribs, scales, hog-tight fencing. All extra good. Three and one-half miles from town. Possession now. Easy terms. 367 acres, grain farm, rich soil, 7-room house with cellar, three porches. Two large barns, large corn crib, scales, other outbuildings, hog-tight fencing, 3 1/2 miles from town. Easy terms, 5 1/2 per cent interest. Schools and churches paid for, low taxes, good market towns and railway facilities. State and soil map free. For full particulars write, **BAZEL J. MEEK, Owner,** Chillicothe, - - - Missouri.

BEST 880-ACRE STOCK AND GRAIN FARM IN SUNNY KANSAS.

100 Miles south of Kansas City. Climate and soil never failing; short feeding season; water and convenience to transportation, combine to make this an ideal stock farm. Two-thirds fine wheat, corn and alfalfa land. Clover, blue grass and prairie pastures, tame prairie meadows. Some timber, new stone residence, tenant house, large barn, large shed and feed lots. Farm fenced and cross-fenced; five miles of woven wire. Price, \$40 per acre. Also 80 acres, improved, near railroad junction, Nodaway County, Mo.; \$3,600. 89 acres, all tillable, improved, 5 miles to railroad; Livingston Co.; \$6,000. 160 acres adjoining above; all tillable; \$5,800.

OWNER, WILLIAMS.

344 RIDGE BLDG., KANSAS CITY, MO.

LAND OPENING

IN the famous Arkansas Valley, Colorado. Our irrigation system is one of the best, and our land as fertile as any in Colorado. A reasonable number of tracts now offered at \$30 per acre, with perpetual water right, on terms without interest. This land will quadruple in value within a few years. Close to R. R. and markets. Your railroad fare refunded if you buy. Write for map and booklet. Agents wanted. **MONSON & MALCOM REALTY CO.,** 300 Kirtledge Building, Denver, Colorado.

The State of Washington

OFFERS unequalled opportunities to the industrious, enterprising homeseeker. Are you interested? If so, write for "Resources of Washington," a 200-page book with 96 beautiful, full-page illustrations. Issued under state authority and sent to any address on receipt of seven cents postage. Address **State Bureau of Statistics and Immigration,** Olympia, Washington.

Farms for Rent

80, 120, 160, 240, 480 acres, Iowa; 338 acres, Whiteside County, Ill.; 2,319-acre ranch, Hayes Co., Neb. **Northern Iowa Land Co.,** Independence, Ia.

Buy Corn Belt Lands In the Famous Montevideo black loam prairie district of S. W. Minnesota. \$30 per acre and up. Free pictorial and descriptive price list. Address E. H. Crandall, The Land Man, Montevideo, Minn.

LADY WANTED To represent us in every township in every county. You can earn some money in your home neighborhood. **Floyd Land & Immigration Co.,** Paoli, Kan.

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also 1/4 section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

this offer. Write for it at once to Mr. Sam Thompson, president Nebraska Incubator Company, Fairfield, Neb.

Irrigated lands in the greatest valley of Colorado are advertised by the Ordway Land Company, of Ordway, Colo., on this page.

A GUIDE TO THE LAST WEST

THE 1910 EDITION IS NOW READY. Send for a free copy. It describes our 100,000 acres choicest Farming Lands in the Tramping Lake and Houghton Lake districts of **Western Canada**

It tells you how to secure a home or to make a profitable investment; tells of the great crops, low prices, easy terms; of the many reasons why you should investigate NOW, before it is too late. Our private car, the "IENZA," goes the 1st and 3d Tuesdays each month. We save you money on Fares, Meals and Berths. Write today for our free "Guide." Don't put it off. Address our Main Office, 240 Germania Life Building, St. Paul, Minnesota. **LUSELAND & DEVELOPMENT CO., Ltd.**

WRITE FOR ILLUSTRATED BOOK ABOUT COLORADO

Fruit, Garden and Poultry Tracts adjoining Denver, under the Antero Irrigation system. The best, surest and safest investment on the market. Denver is the best market in the world.

5, 10 AND 20-ACRE TRACTS

SOLD ON THE EASY PAYMENT PLAN Will pay for themselves in a few years. \$300,000 worth sold in the past six months. We give you the names of 100 who have bought, for reference. Endorsed by the Governor. Refer to local banks. **ALTURA FARMS, 210 Ideal Building, DENVER, COLORADO.**

IOWA FARMS

OUR 1909 new illustrated catalog of improved farms in Iowa and other states is ready. Be sure to send for it if you want to buy or exchange for land. Also have some good income and other property for sale and exchange. **NORTHERN IOWA LAND COMPANY,** Independence, Iowa.

BEST BARGAIN Ever Offered

500 ACRES near McCook, Nebraska, in Republican Valley, near school, siding two elevators. Large, new house, tenant house, new stables; 400 acres in cultivation; 125 in alfalfa, 100 of fall wheat, absolutely choice, level land, strictly alfalfa soil. Price, \$65 per acre; easy terms. **A. A. Pitzman, Owner,** Omaha, Nebraska.

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address **The Allen Co. Investment Co.,** Langton, Kan.

IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advance so rapidly in price. Illustrated literature. Write today. **Engene T. Thoman,** Crawford Black, Sedalia, Missouri.

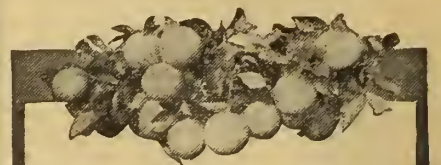
IRRIGATED LANDS In Colorado, under perfected ditch system. Unsurpassed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R. R. Superior local and foreign market. 1/2 tracts from 5 to 1,000 acres, at \$100 and up. **ORDWAY LAND CO., ORDWAY, COLO.**

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Virginia Farms and Timbered Lands

FOR SALE. We have a large list of excellent farms for sale at reasonable prices. Write for descriptive catalog of farms. **Jeffrey, Hester & Co., Inc., Real Estate Agents,** Chase City, Mecklenburg Co., Va.



\$1,500 Yearly from a Texas Orange Orchard

We Plant and Care for the Trees While You Make Easy Monthly Payments—20 Cents a Day per Acre!

Owners of bearing orchards in the famous Alcoa district of the Texas Gulf Coast are making \$300 to \$500 per acre from oranges and figs.

The celebrated Satsuma Orange ripens 30 to 60 days earlier than California fruit and brings higher prices. Magnolia Figs mature with amazing rapidity, and preserving plants will take all that can be grown.

A small cash payment and easy terms, secures you a five-acre orchard now, that should return half your purchase price the first commercial bearing year. We plow the land, set out trees and cultivate for three years after planting. At the end of the contract period you receive a guaranteed scientifically developed orchard. Alcoa lies midway between Houston and Galveston; 2,000 miles nearer great eastern markets. Unsurpassed shipping facilities. 45 inches rainfall—no irrigation.

Write today for our Free Illustrated Booklet of facts, photographs and figures. If you are looking for an exceptional investment opportunity and a delightful home, investigate now. (10)

Kent Realty Development Co.
132 Stewart Building Houston, Texas

WESTERN CANADA

Senator Dolliver, of Iowa, says: "The stream of emigrants from the United States to Canada will continue."

Senator Dolliver recently paid a visit to Western Canada, and says: "There is a land hunger in the hearts of English speaking people; this will account for the removal of so many Iowa farmers to Canada. Our people are pleased with its government and the excellent administration of law, and they are coming to you in tens of thousands, and they are still coming."

Iowa contributed largely to the 20,000 American farmers who made Canada their home during 1909. Field crop returns alone during year added to the wealth of the country close to **\$170,000,000.00**

Grain raising, mixed farming, cattle growing and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts; 160 acres pre-emption at \$5.00 per acre within certain areas. Schools and churches in every settlement, climate unexcelled, soil the richest, wood, water and building lumber plentiful. For particulars as to location, low settlers' railway rates and descriptive illustrated pamphlet, "Last Best West," and other information, write to Sup't of Immigration, Ottawa, Can., or to Canadian Gov't Act.

W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 215 Jackson St., St. Paul, Minn.

YOU

Can make more money in the Real Estate business, with less capital than anything else. We teach you The Real Estate Business through our instruction department and then appoint you our agent in your territory and work with you. Live men make **\$3,000 to \$10,000 a Year**

If you are ambitious and want to get into a good business for yourself, write us today and we will send you our FREE booklet telling you HOW we teach you "The Real Estate Business."

Instruction Department,
MORDEN LAND AND LOAN CO.,
583 Palace Bldg., Minneapolis, Minn.

OREGON

1910 Is the Time

Railroad Development the Reason

FREE Richly Illustrated Booklets from all parts of Oregon, telling of FRUIT GROWING, FARMING, DAIRYING and other opportunities.

ASK QUESTIONS

PORTLAND COMMERCIAL CLUB
PORTLAND, OREGON

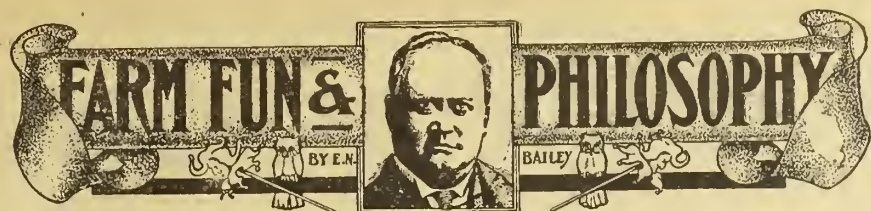
IS THE PLACE FOR YOU

Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana In Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit; truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops. **NO IRRIGATION SCHEME.** 60 inches annual rain fall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. **J. D. LEBRIE, Gen'l Land Agent Pine Land Mfg. Co.,** 633 Keith & Perry Bldg., Kansas City, Mo.

A Fine Grain and Stock Farm

IN Atchison County, Kansas, 70 miles from Kansas City, Mo., 25 miles from Atchison, Kan., 1 1/2 miles from Muscotah; we have a square mile of fine dirt, nicely located near a good town. It is excellent corn, wheat, alfalfa, clover, timothy and blue grass land; abundance of good water; plenty of timber to use for years; improvements fair. This farm can be had for less than it is worth if taken in the next 30 days. We also have two or three 160-acre farms. **HILDEBRAND & GRAY,** 439 Midland Bldg., Kansas City, Missouri.



Keep the Boy on the Farm.

An anxious farmer writes: "My boy is seventeen years old and inclined to be a little fast. What would you advise?"

You should shoe him with long toe calks and tighten his suspenders. This will tend to curb speed and also tend materially to regulate his ambition.

A young man when first turned loose on the world is like a bull yearling in flytime, inclined to be speedy and promiscuous. Put a pair of wooden shoes on him and let him pull cockleburs. If he has a desire for recreation, take him to see his grandmother's grave. Don't trammel him as to company—have him attend the undertakers' convention and teach him to be an embalmer. This will make him sociable and give him a cheerful disposition.

A boy must have perfect freedom. Let him dig post holes and clean the cistern out while you go to town with the top buggy. Many a boy has been spoiled by compelling him to ride in a carriage behind a spirited matched team. It is not natural for a boy to pull on the reins.

Get you a new automobile and bore a two-inch hole through the door of the garage so the boy can look at it. He will spend hours in this way which he might spend otherwise in riotous living. Don't be penurious with your boy. Give him a dollar every six months and be sure and tell him how to spend it. Many a boy has gone wrong from worrying about how to spend his money given him while on the farm.

Should a circus come along, be sure and have your boy see the street parade. The contaminating influences of a circus are all on the inside. You should see these and tell your boy about them. One of the brightest gems of fond recollection is the relation of an old man, at one time, of the wonders he saw in a circus.

Don't ask your boy to wear wooden shoes to church. Get him a pair of nice cowhide boots with red tops and thick soles. He might meet a snake and want to kill it.

You should pick out an old maid with a farm and a bank account for your son to marry, and teach him the frivolity and foolishness of ribbons and bright colors.

This is about all your boy needs. He has been handicapped, which has given him a sort of "coal-oil Johnnie" disposition. By giving him greater freedom he will lose his disposition to fly without pinions. If you could get him to work all night once in a while it will tend to shorten his gait, and by changing teams on him twice a day for a spell when harrowing soft ground you will soon get him so he will not step too high.

Many boys go wrong for the lack of this tender solicitude and parental anxiety for their welfare, as well as the mature reflection so necessary to judge as to the propriety and suitability of the work that will best fit him for the battle of life untrammelled by the machinations of the evil one. You have been too hidebound with your boy; you should limber up and be more progressive.

Trouble With Twins.

A young farmer who has put in all of the present winter giving his best girl sleigh rides has got himself into trouble. His horse had about all it could do to handle the business and then the girl's twin sister came. It is impossible to tell them apart and one or the other is always waiting to take a ride and he don't know whether it is the same one or the other and he gets behind and can't get caught up.

He has driven nights until his horse became a nightmare, but in spite of all he can do one of the girls always meets him at the door ready to take another sleigh ride. If they were triplets he would have to buy a livery stable.

He has sent for his twin brother

to come and thinks now perhaps they can get along until spring, when they will buy an automobile, so they can all ride at the same time. He wants to marry one of them, but don't know which one and is afraid that if he asks one the other will refuse him and should he get a license to marry one ten chances to one the other one would be the one to meet him at the altar. He is going to have his brother try and get one out of town while he marries the other one.

Tinkering with the Old Clock.

Have you an old clock in the garret that has not run for years? If so, here is a rainy day's job for you in experimenting. Of course, it is not worth fixing (the jeweler will tell you that) so you have nothing to lose. Take the clock out on the lawn and sweep it off with a window brush, then take the works out by loosening the screws at the back of it. Take the pendulum and verge off and let it "purr." Then remove the hair, cotton batting, feathers and lint until you can see the wheels. You will find that they are of a circular nature with notches in them. Don't try to file the notches out—they were made that way for a purpose.

Have a kettle of clean water boiling on the stove and dump the clock in. A little toilet soap will do no harm. Boil it an hour, rinse in cold water and put it in the oven to dry, where it is not too hot. Touch each journal with the tiniest drop of typewriter oil and put it back in the case and start it. Sometimes it is best to pour gasoline in it first to loosen the dirt and gum. Try this some time on an old clock and see it run as well as when it was new.

An eight-day clock that was pronounced worthless fifteen years ago and thrown aside was cleaned in this way ten years ago and runs as well now as it did thirty years ago when it was new.

The Misery of Money.

I am in deep trouble and wish your advice. I am a young man of good habits, of cheerful disposition and sanguine temperament as a general thing, but at present I hardly know what to do. I have an uncle who wants to give me a million dollars in cash without reserve. Shall I take it?

Anxiously yours, Roderic.

You are entitled to the sympathy of the public in your great perplexity, dear Roderic, for if you take the money you will require at least ten secretaries to answer the begging letters that will be sent to you every day. If you give any of these anything the public will say you are a fool and perhaps use an adjective as a prefix, and if you do not they will say you are a miser, a humbug and an old octopus. If you invest it yourself you will lose all of it in five years, and if you don't you will lose it in five months. If you put it in government bonds they will say that you are a coward and a tax evader.

You will have to get a private detective to see that you are not kidnaped, and a guard armed with a maxim gun to keep the beggars from mugging up your raiment, and live in a bomb-proof cellar far from the maddening throng.

If you keep an automobile the boys will fill your roadway with carpet tacks and barbed wire, and if you don't, people will say you are too stingy to enjoy life.

Can't you persuade your uncle to keep it a few years longer and use your best endeavors to prolong his life? He is probably hated now as badly as he will be, and being used to it does not mind it much. If you can get your uncle to live long enough so you can raise a daughter and then marry her to a duke, things will gradually adjust themselves, Roderic, and you will save yourself a whole lot of trouble.

Ask your neighbor to subscribe for The Homestead.

An All-Purpose Plow!

Think of this—one single plow, suited for all soils, all conditions, all purposes—a Universal Plow. Implement makers for 40 years have tried to make it and failed. WE HAVE SUCCEEDED. A year of field testing has proved it to ourselves and hundreds of enthusiastic farmers.

Think of this—a plow that will turn over SOD without kinking—turn under STUBBLE of any kind and not leave a bit of trash showing—turn under CORN-STALKS with the same perfection, every stool covered—which will turn a 2-inch slice with 18 inches of weeds and cover every spear, or an 8-inch slice under the same conditions equally well.

And, furthermore, will do this in ALL SOILS—sand, clay, waxy bottom, gumbo—stony or gravelly—and leave a perfect furrow with the bottom clean as a floor. No dirt spilled over into the furrow or slopped forward onto the land.

It will not only do all the work just described, but do it with less draft than any other gang plow built, cutting the same width of furrow.

Performance Guaranteed

We absolutely guarantee the satisfactory performance of this plow. We have proven it under all conditions—by field tests from the wheat fields of Canada to the cotton fields of the South, and from the sands of California to the waxy gumbo of Arkansas. It makes one plow do the work of a dozen or more, and if more than one plow is owned, makes every one of use where the need is imperative. No wonder farmers get enthusiastic about it.

ROCK ISLAND UNIVERSAL (C.T.X.) BOTTOMS

Now Ready on our Liberty Gang Plow

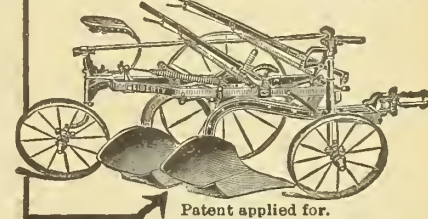
Our wonderful invention has already started to revolutionize the plow business, and in side of a year or two there won't be a plow in the country which will not be equipped with this modern miracle of mechanics. We shall eventually equip all our plows with this bottom.

Our celebrated Liberty Gang Plow is already equipped. It has kept us so busy filling orders for this that we haven't been able to get to the others. The Liberty Gang has become so well known for ease of operation, easy draft and wonderful durability during the years it has given satisfaction in all parts of the United States, that no description is necessary, further than that it has all the good points of all gang plows with their weaknesses and disadvantages overcome.

If you can use a Universal—all-purpose plow, which in one implement will do better work than all the plows you have put together, you must ACT QUICKLY. Our mammoth factory is already clogged with orders—it's a case of first come, first served. So order from your Dealer NOW for delivery as soon as possible, or when you need it—either one. Don't be put off—don't even look at anything else. There is NOTHING just as good or a hundredth part of it.

Write us if you want descriptive circulars and nearest dealer's name. Will answer promptly, so the delay won't count against you. (17)

Note the peculiar corkscrew, auger-like twist of the mouldboard. A slice of any thickness spreads out evenly over the surface without crimping, and turns clear over, burying all trash completely. No spilling over into the furrow or slopping forward onto the land. We control the shape of the mouldboards. They cannot be used by any other manufacturer without infringement.



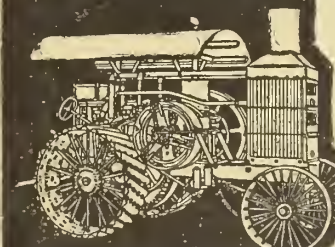
Patent applied for.

ROCK ISLAND PLOW COMPANY

Rock Island, Ill.

A Kerosene Plowing Engine

WILL SAVE MONEY FOR THE LARGE FARMER



Our Plowing Engine does the work of 18 to 20 horses, and eats nothing when standing idle. It is also suitable for discing, seeding, harvesting, threshing, corn shelling, shredding, grinding, road grading, hauling, etc. Hundreds in successful operation.

The Ideal Farm Power—Oil Cooled—Frost Proof—Uses Kerosene, Gasoline or Alcohol. Ask for Illustrated Catalog.

HART-PARR CO., 228 LAWLER ST., CHARLES CITY, IOWA

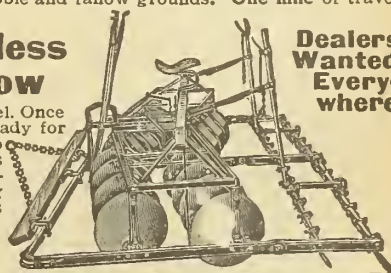
This Tool Saves Plowing

Four times as rapid as the plow and makes just as good a seed bed. Disc and harrow combined—the great 2-in-1 combination for corn, stubble and fallow grounds. One mile of travel by the team means one acre ready for seed.

Naylor 2-Row Tongueless Disc and Spike Harrow

Discs cultivate and stir, spikes pulverize and level. Once down the field completes a strip 8 feet wide—ready for seed. Discs and spikes can be set at any angle to work deep or shallow. Only front row of discs work in unbroken ground. Write for full description and Special Introductory Offer. Something good for first one writing from each town. Address

THE NAYLOR MANUFACTURING CO. Box 142, La Grange, Ill.



Dealers Wanted Everywhere

2 IN ONE HARROW AND WEEDER

4 HORSE CUTS 22 FEET



Ware's Combination Steel Lever Harrow and Weeder

TWO IMPLEMENTS FOR THE PRICE OF ONE.

The only steel lever harrow made with bars running with the team and teeth that cut and turn the soil instead of breaking through by sheer force. Weighs about the same and draws as light as the Boss Wood Harrow. New Style Mould Board Tooth and Great Clearing ability makes implement Perfect Weeder for working corn, etc. Write for large cuts and Harrow Circular. Sent free on request. HACKNEY MANUFACTURING COMPANY, 406 GERMANIA LIFE BLDG., ST. PAUL, MINN.



"KODAK on the Farm"

is the title of a beautifully illustrated little booklet that not only tells of the pleasure and profit there is in owning a camera in the country, but explains the simplicity of the Kodak method of picture taking. There's no dark room now for any part of the work—no heavy plates. *Anybody can Kodak*—but send for the book. *It's free by mail or at your dealers.*

EASTMAN KODAK CO.
392 STATE STREET
ROCHESTER, N. Y.

Marlin
Model 1894
Repeating Rifle

This rifle is built for settled districts, where good range and killing power are desired, with safety to the neighborhood.

The *Marlin .25-20* is a light, quick-handling, finely-balanced repeater, with the solid top, closed-in breech and side ejection features which make *Marlin* guns safe and agreeable to use and certain in action.

It is made to use the powerful new high velocity smokeless loads with jacketed bullets as well as the well-known black powder and low pressure smokeless cartridges, and is the ideal rifle for target work, for woodchucks, geese, hawks, foxes, etc., up to 300 yards.

This rifle and ammunition, and all other *Marlin* repeaters, are fully described in our 136-page catalog. Free for 3 stamps postage.

The Marlin Firearms Co.,
135 Willow Street, NEW HAVEN, CONN.

Steel Wheels



WITH GROOVED TIRES
4 in. wide. The Groove protects the heads of spokes from wear, which makes wheel good and strong till tire is worn out. We make plain tire wheels in other widths. We make wheels to fit any thimble skein or straight steel axle. Get our free catalog of Steel Wheels and Low Down Handy Wagons.

HAVANA METAL WHEEL CO.,
Box 47 Havana, Ill.



LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

"Cruelty to animals is one of the distinguishing vices of the lowest and basest of the people. Wherever it is found it is a certain mark of ignorance and meanness, an intrinsic mark which all the external advantages of wealth, splendor, and nobility cannot obliterate."

One day this week as I passed down an unfrequented street in town, I noticed, a block away, quite a large crowd of people out in the middle of the road. It was in the direction in which I was going. As I neared the spot a man approached and I asked, "What is the matter?" "Nothing serious," he said; "only a horse fallen and he seems unable to rise." Just then a woman came from the direction of the crowd. She seemed very angry and she stopped and said, "Is it not terrible? The man drove the poor beast so furiously that it fell from sheer exhaustion."

Later in the day I learned that not long ago the same man—he lives some distance from the city—struck his horse with a cordwood stick, dealing it such a blow that it fell as if dead and lay stunned for some time. And this is a civilized country in which there are laws for the protection of animals, societies for teaching kindness and churches and Sunday-schools which supposedly are leavening society with the spirit of the loving, pitiful Jesus. It is evident that more, or at least more effective, agencies are needed to protect dumb creatures from the wicked tempers of cruel men.

Much unkindness comes from pure thoughtlessness. It was only last summer that, out walking one evening, I met a mother and daughter carrying a basket. As we stood chatting there was a mewing sound and the little girl said, "Mama, we must hurry; the kitties don't like being covered up in the basket." "Are you going to give your kitties away?" I asked thoughtlessly. "No," the child replied, "we can't get anyone to take them so we're just going to put them down somewhere."

Think of it! Put little motherless kittens too young to seek food or shelter for themselves "down somewhere"—and that mother calls herself a Christian and is a member of a society for converting the heathen.

The thermometer has been away below zero recently in a good many places where this paper is read. I wonder how many of the stables and barns would bear inspection. I wonder how many poor dumb creatures have stood in drafty stalls while the wind whistled around them? I wonder how many have been careful to blanket the horses while they shopped after driving briskly to town? I wonder how many have seen to it that the horse which took them to church was sheltered while they sat warm and snug during service? I wonder—oh, about many things.

One of the things I wonder most about is that parents do not see the wisdom of devoting more attention to teaching children to be kind. If parents only knew it they can give their children no better key with which to unlock the doors of happiness and success than by training them to sympathy and kindness. Love in the heart is the spring of all manner of beautiful things in the life. The boy or girl who is taught to be loving and thoughtful, considerate and kind, develops such qualities and graces as make friends everywhere. The success of such an one is sure. And nowhere will the returns be greater than in the home.

As a matter of fact, important as is the education of the mental faculties that of the heart is even greater. Once let men truly learn to be kind, let them learn to consider others, let them learn to practice the Golden

Rule, laid down by the great master and life would be revolutionized. And more can be done at home than is realized. Children may and should be taught to be considerate of each other and kind to their pets. The latter is more easy of accomplishment from the fact that animals are rarely unkind or ungrateful as human beings so often are. And yet how often we see children wantonly torturing a kitten or thoughtlessly making life a burden to a dog, while parents laugh and let the matter go without reproof. Could they but know it they themselves are likely to suffer from the thoughtless or cruel temper they are permitting to develop unchecked.

There is another way in which parents may help in the forming of kindly habits. They may call the attention of the teachers of their children to the necessity for systematic teaching along the lines of humane education. A copy of "Black Beauty" or some other of the little stories issued by the Humane Society, books which may be purchased for a dime, placed in a schoolroom has been known to bring about wonderful results. Children's hearts are tender and impressionable; it is for their elders to lead them into ways of kindness and train them in habits of thoughtfulness. A child taught by reading "Black Beauty" will never be cruel to a horse. And the kindness shown to animals will react, sweetening his disposition and making him kind to everyone.

So many gods, so many creeds,
So many paths that wind and wind,
While just the art of being kind
Is all the sad world needs.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

When your harvest seems all stubble,
And success a broken bubble,
Don't hold out your hands to trouble
And pet it—just forget it!
Don't be forever linking
A chain of anxious thinking,
It will crumble in a twinkling
If you'll let it—just forget it!
Put your failures all behind you.
They can have no strength to bind you;
Go ahead! Success will find you
If you'll let it—don't forget it!
—Arthur Chamberlain, in Spare Moments.

Wailing over defeat or failures is not profitable. Only success interests the world. It was a wise woman who said: "Laugh and the world laughs with you; weep and you weep alone."

KINDNESS TO ANIMALS.

She was a wee scrap of a thing just three years old, but with the soul of a heroine shining out of her great brown eyes. It was her first visit to the zoo, and the babel of queer noises and rows of strange beasts might well have daunted her baby heart. But she scorned to seem afraid. Only when they approached the towering form of the elephant did she draw back. "I'm not goin' too close, papa," she whispered; "I might scare him!"—Woman's Home Companion.

MY BED IS A BOAT.

My bed is like a little boat;
Nurse helps me in when I embark;
She girds me in my sailor's coat
And starts me in the dark.

At night I go on board and say
Good night to all my friends on shore;
I shut my eyes and sail away
And see and hear no more.

And sometimes things to bed I take,
As prudent sailors have to do;
Perhaps a slice of wedding cake,
Perhaps a toy or two.

All night across the dark we steer;
But when the day returns at last,
Safe in my room beside the pier
I find my vessel fast.
—Robert Louis Stevenson in "A Child's Garden of Verses."

A SUMMER YARN.

Hue—"Charlie was kissing you in the hammock."
Prue—"No, he wasn't. Those smacks you heard were when he killed mosquitoes."—From Judge.

BEAUTIFY THE FARM YARD.

Looking at the grounds surrounding the farm and suburban homes through

How often do you eat this food?

A short time ago there appeared in the columns of one of the prominent magazines an article on building brain and muscle by the proper selection of the foods you eat.

A good many people were surprised to find oatmeal placed at the top of the list of foods recommended; but if the article had appeared in an English or Scotch paper every reader would have expected to see first place given to good oatmeal.

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FRANCIS BANNERMAN, 601 Broadway, NEW YORK

the country, the lack of well-planned and well-cared-for driveways is noticeable; or where kept in good condition they far too often lead to the barn by the most direct line of approach, with no apparent care for the effect they have on the place as a whole.

Granting that every foot of unnecessary driveway represents added labor, and admitting that it must be well cared for, or take from rather than add to the beauty of the place, brings one to the same fact that must be faced in securing anything worth having—it means work.

Viewed from the standpoint of labor involved, there is no denying that it requires more to lay out and make a long driveway than a short one and, too, the longer one must be a wider one, or look like a streak through the sod.

When, however, the work of making has been done that of keeping in good condition is not proportionately greater for the reason that in the curving, endless driveway, a home-made scraper, a steady old horse, and a careful driver will do the work with no greater outlay of time and strength than would be required to keep the shorter and narrower one in order by the power of the "man behind the hoe."

FOR THE COOK.

Canned Beets.—Boil two dozen beets about the size of large marbles, or while small and tender, being careful not to break the skin. When done, drop them into cold water and remove the peel. Put one-half cupful of sugar into one quart of vinegar, adding a small bag of spices if desired. Let come to a boil and pour over the beets which have been put into a glass jar. Add a piece of horseradish to keep the vinegar clear and then seal.

Oatmeal Drops.—One cup each sugar and butter, creamed together, two eggs, two cups each flour and rolled oats, five tablespoons milk, one teaspoon cinnamon, one-half teaspoon each salt and soda sifted with the flour, one cup each of raisins and English walnuts finely chopped. Mix nuts and raisins before putting through the chopper. Drop the dough by half teaspoons, a couple of inches apart, on inverted pans or rimless tin sheets and bake in a moderate oven.

Baked Bacon.—Your thin slices of breakfast bacon can be cooked quite as well in a baking pan in a moderately quick oven, as in a frying pan on the range top. They will not only do more evenly by this method, whether preferred crisp or merely tender, but you also save your kitchen atmosphere from the greater part of the fat smoke, yourself the trouble of turning the slices, and you gain valuable space on the top of the range, especially if a large number of slices are wanted at the same time. But while in the oven the bacon must not be out of your mind for a single moment, as, after reaching a certain point, it burns very readily. A little experience will make you able to time it almost as exactly as if it were a boiling egg.—Aldis Dunbar.

AMONG OURSELVES.

A woman's club in which I am interested has decided to make a study of "Les Miserables" for the first six of its next season meetings. Thinking of this reminded me that somewhere in the Home Department cold storage cupboard there should be a book talk upon this Hugo masterpiece. To remember was to look, and to look was to find, so we shall consider "Les Miserables." By the way the title being French (translated it means "Unhappy Ones") is very frequently mispronounced. Les is sounded like our word lay and Miserables as if spelt Mee-ser-ahbles:

If but one of the many novels now existing were left for us to read, that one might well be "Les Miserables." To read it once is but a foretaste of the pleasure one may gain from studying it. We may gain from it ideas on many subjects and the whole mind is broadened and enlightened by its perusal. As we read it, humanity in many phases passes before us; the low criminal, the innocent child, the laughing maiden, the galley slave, the gamin of the streets, the priest, the holy sisters and many others. In all these Victor Hugo goes beneath the exterior and shows that each has a soul. As a work of history "Les Miserables" is very exact, going into causes of movements as well as details of events. The best description of the battle of Waterloo in existence is found in this book. As a sociological work it has high value. It shows how great an influence for good or evil a human being may exert over his fellow man; how a moment's kindness and trust may change a mean, ignoble life into one so great and noble that its influence for good reaches far and near. It also shows how a few moments of thoughtless pleasure may bring to a fellow creature a life of misery and even crime. With all this it teaches sympathy for the tempted and sinner, and gives hope to the sinner. Victor Hugo says in effect, "Ever strive to do right. Then, if you fall, it is only a fall to the knees. Get up and try again." Finally, we are taught not to expect rewards for our good deeds, not to seek for pleasures which flee away, but to look upon life as a battlefield where we meet and conquer our meaner selves.

This sketch should whet the appetite

for "Les Miserables." I promise that it will repay any and all who read it.

A minister's wife will present some thoughts about "shut-ins."

I have been thinking for some time of writing a little article upon the subject of "shut-ins." I have read numerous articles in different periodicals upon the negative side of this question. I have never yet read an article where they have taken up their own pen in their own defense. I take this as proof positive that they are patient and long suffering, for how many articles do we read in nearly every paper—religious, domestic and even political—advising them to be more patient and less complaining, that they strive to be less of a burden to their friends. It seems to me that it would surely brighten their lives a little to sometimes read a little advice given showing these friends how the strong and well may cheer and brighten the lives of poor, lonely "shut-ins." Being a minister's wife I am thrown a great deal among people and hear many things. I will relate one happening: After visiting a certain "shut-in," and while sitting with her, condoling with her regarding her ailments, a woman calls on several neighbors on her way home, saying to each, "Mrs. — is going insane, all because she does not try to control herself." She adds how sorry she is for poor Mr. —, for it takes all that he makes to pay the doctor's bill. I also call on the invalid. I sit down near the invalid's bed, look straight into her eyes, express sympathy for her sickness, tell her of all the bright and lovely things in God's creation that I can think of, tell her of a few kind remarks friends have made about her in my presence. She grows quiet and I slip away.

Probably we have all had occasion to deplore the lack of tact and the bad taste of some of those who call upon the sick. There is no place where tact and good taste are more necessary. It is not enough to be kind. A kind but blundering neighbor called upon a woman who lay very ill of typhoid while the body of her son, who had succumbed to the disease, lay in another room. "Too bad you could not speak to Harry before he died," she said, thinking to comfort the mother. "Harry dead?" shrieked the mother and straightway swooned. She revived, but desire to live was gone and within a few days she had followed her son—victim to the tactlessness of a visitor.

A letter from S. A. C. comes next. It reopens a matter discussed not long since, but nevertheless deserves attention:

I would like to write a little of my experience in hopes that it may help someone. I have read many letters of wives, mostly young, and so many were afraid their husbands were growing cold and didn't love them any more, and how their heart was starving for his love. I believe I have found the reason and the cure. I was married at a little past seventeen, ten years ago, and I loved my husband better than my soul. I believe he loved me, too, but it is not his nature to be kissing and saying so as much as it was mine. I was more like a child and probably I bothered him with too much of my affections. There was another thing that I want to write about and cry out against, and that is the love stories, whether in paper or book. Oh, that people could realize the harm of the influence that these have on young lives. Don't think that you could have made me believe there was harm in anything that I liked and that seemed so harmless. When men made fun or told me that they weren't good I said they weren't any worse than tobacco and whisky. But now I think they are not much better than either. In the first place a woman expects her husband to be like the hero in the stories, whether she knows it or not, and when he doesn't act like love stories represent she is disappointed and sometimes jealous without a cause. And this is the way they poison the mind. Besides, those stories are nothing but a pack of lies made up to sell for the writer's profit. Now I will tell you how I was cured. When fourteen years of age I was converted in a revival meeting. After that I always wanted to be a Christian, but didn't know how, and not being satisfied, because I thought he didn't love me, I was always trying to find something to satisfy my hungry heart. While I searched, one day I happened to hear this truth at church. The preacher was telling how some people would like to have religion, but they didn't have any room for it because of being so full of everything else. To illustrate his point he said we were like a little boy with a big, red apple in each hand and his mouth full, crying for a piece of cake or something else. Then he said the thing we needed was not something more, but to go and empty our hands and mouth and then we would have room for religion, or what God wanted to give us. I felt that meant me and the story paper was the first thing that I started to empty. I wrote stopping fifteen. And I now have religion and love and joy and peace.

Good bread is the staff of life, but bad bread makes dyspeptics, a moderate amount of food is necessary to health, but too much food burdens the

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digestive organs, cumbers the alimentary canal and produces serious disturbances. S. A. C. was undoubtedly in need of conversion where story reading was concerned, and probably the best thing for her to do was to "swear off" entirely, especially as the class of stories she read seems to have been trashy. Now to return to the point she makes as to love stories of a certain type working harm to the women who read them, she is absolutely right. When the average, normal man goes courting he is not in the least like the lover of the story paper, and the girl who feeds on that sort of thing is laying up unhappiness for herself. Even if the young fellow meets her expectations before marriage, the honeymoon over he is almost certain to disappoint her. Women are apt to be too demonstrative, men not demonstrative enough, some think. However that may be, affection is the oil which keeps the domestic machinery in good condition, it should not be bottled up and kept hidden away for use on special occasion; it should be used freely every day—by husband and wife alike.

A kitchen matter comes next on our program. Mrs. C. G. comes to tell of tested methods of drying and canning beef:

I have gotten lots of information from the Home Department columns. I feel it my duty to help someone. Mrs. N. I. asks how to dry and can beef for summer use. I have a recipe that I have tried for several years and a good many of my friends have tried it. I received a letter last week from a lady I gave it to. She said it was fine. I have never heard of one that had a failure with it. We like the canned beef better than the dried. I canned twenty-five quarts again this winter.

For dried beef: Put the beef in brine nine days, then hang up and let drain off well, then smoke lightly, wrap up in paper and lay away in dry place. For canned beef: Cut in pieces just large enough to go in glass fruit jars, season and cook just as if you were going to serve it right away. Put lots of fat or tallow in kettle with meat to make a rich broth. When tender put the meat in jars, press down, fill with the boiling broth and seal. When cold the tallow should come to the top and a jelly form in the bottom. If there is any thin juice in bottom when cold, it will have to be reboiled. Don't add any water to the jar of meat to finish; put enough water in kettle on the start to make sufficient broth to cover meat. Don't put any bones in jars. On opening jars set in hot water up to rim of jars till thin enough to pour out. The broth is fine to season a kettle of cabbage.

That meat extract should also be just the thing for soup. By the way, in England a soup or stock pot stands on the range all the time. Into it goes every scrap of leftover in the way of meat, bones, gravy, vegetables, etc. And the delicious soups concocted by the cook form the staple of the midday meal in many a home. I wish we might have something here Among Ourselves from housewives who serve soup frequently.

DRESSMAKING—No. 66.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Skirts that give long lines at front and back are very generally becoming. This one includes that feature and also the panel effect at the sides that is so smart and so much liked. It will be found adapted to all seasonable materials. In the illustration it is made from serge with simple tailor stitching but the style suits linen and materials of the sort, which many women make up in midwinter, quite as well as it does woolen ones. In fact, the skirt is one of the smartest and latest to have appeared and can be made very generally useful.

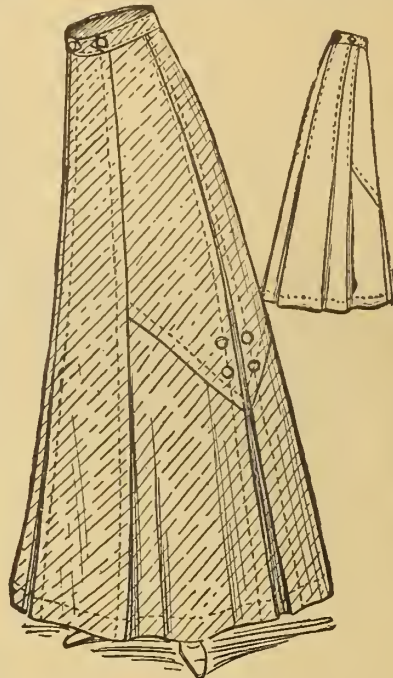
The skirt is made in eight gores and those at the front and back are extended to full length and overlaid to give a box plait effect. The side panels are made in sections and are lapped over the narrow center gores to form plaits which provide becoming flare while at the same time perfect slenderness over the hips is preserved.

The quantity of material required for the medium size is 7½ yards 27, 4¼ yards 44 or 52 inches wide, when material has figure or nap; 6½ yards 27, 4¼ yards 44 or 3½ yards 52 inches wide when material has neither figure nor nap. The width of the skirt at the lower edge is 3¼ yards.

The pattern 6552 is cut in sizes for a

22, 24, 26, 28, 30 and 32 inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

Such a dainty, pretty dress as this one is sure to find favor with every girl. It can be made either with the



[6552 Eight-Gored Skirt, 22 to 32 Waist.]

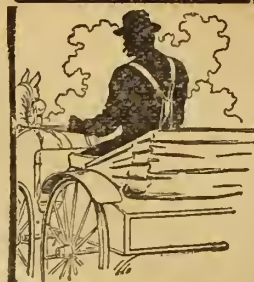
pretty round neck and short sleeves illustrated or as shown in the back view, and it can consequently be utilized both for the evening and daytime wear. It will be found adapted to all the soft, fashionable materials that tuck so successfully. It is exceptionally graceful and attractive, yet it is quite simple. The waist and skirt are joined in semi-princess style and any girdle or sash can be worn in combination; or the belt can be made of trimming and be complete in itself. In this case chiffon is trimmed with banding and with ribbon bows.

The dress is made with waist and skirt portions. The waist is made over a fitted lining and consists of the full portions that are finished by trimming bands and the little frill, or tucker, above them. The short sleeves are in



[6549 Misses' Dress, 14 and 16 Years.]

one piece, but the long sleeves are cut with upper and under portions and fit the arms snugly. When the high neck is needed the lining is faced to form the yoke. The skirt is made with front, back and side portions. The front and back portions are tucked and cut in



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Send me 25 cents for one year's subscription to The HOME INSTRUCTOR and I will send you a copy of my big fashion book, free, postpaid, as a premium. I will agree to furnish you any pattern you want thereafter at 5c each. This I do, not because I care to make money off the patterns, but because I want your subscription to my magazine. This fashion book has cost me a lot of money and I can not afford to give it away except with yearly subscriptions. I would advise you to send in before the supply is exhausted. Better send today. Address, A. OTIS ARNOLD, Dept. H QUINCY, ILL.

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All other groceries and general merchandise proportionately low, saving you 35 to 50 cents on the dollar. We pay freight to any city east of the Rockies, when full amount of cash is sent with order. **INLAND MERCANTILE CO.,** 5245-5247-K, Green Street, Chicago, Ill.

ADMIRAL 2-MAN PRESS

3 FEEDS TO THE ROUND SELF FEEDER CONDENSING PACKER ADMIRAL HAY PRESS CO. KANSAS CITY, MO. ST. LOUIS, MO.

sections, but the side portions are plain and the trimming is arranged to give a tunic effect. The closing is made invisibly at the back.

The quantity of material required for the sixteen-year size is 9 1/4 yards 24, 7 1/2 yards 32 or 5 1/2 yards 44 inches wide with 12 yards of banding, 1 1/2 yards of ribbon and 1/4 yard of chiffon

for frill; 1 1/2 yards of all-over lace for yoke and long sleeves.

The pattern 6549 is cut in sizes for girls of 14 and 16 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson X.—Matthew VIII., 2-17.

March 6, 1910.

JESUS THE HEALER.

It was not matter of caprice that Jesus went to Capernaum. It was the center of population. There were nine large cities in immediate proximity. And the combined population of the district approximated three million souls. Comparatively remote from the ecclesiastical center of Palestine, the prejudice to the new teacher and his doctrine was correspondingly less. There Jesus reached the masses. There was an irresistible attractiveness in Jesus. Men flew to him like iron filings to a magnet. He drew men to himself. He could not be hid. He is still the most attractive character in all history, as he is the most conspicuous personage. Having been lifted up, he is drawing an ever increasing multitude to himself. But each must determine for himself whether this attraction shall result in a permanent attachment to the master. Alas, for Capernaum! It was for the most part curiosity, or mere bodily healing, or loaves and fishes that brought the populace to Jesus. And so a city exalted to heaven is brought down to hell. One leaky boat floats where once a goodly fleet rode at anchor. Jesus' words, "Woe unto thee, Capernaum!" seem to wake the echoes of the solitude. It is as if the whole healing ministry of Jesus is compressed in a single paragraph. On the dark background of human misery the pity and power of the master shine resplendent. Sympathy in each instance flowers into helpfulness. Leprosy, palsy, and fever fly at his rebuke. The spell of demons is broken. Evil spirits are exorcised. And then, as if further specification is impossible, it is all summed up in the saying, "He healed all that were sick." The account closes with a choral strain from the prophet, the most appropriate possible. "He took our infirmities and bore our sicknesses."

The Teacher's Lantern.

The scene of Jesus' tireless activity is at once transferred from the publicity of the synagogue to the sweet privacy of the home of the chief of his apostles. What Peter has just seen of the master's power emboldens him to call his attention to an instance of sickness in his own home—a low, consuming, fatal fever. This domestic miracle will produce no such sensation as that wrought in the synagogue, but love for his disciple and a desire to confirm his somewhat unstable character, as well as sympathy for the sufferer, leads Jesus to give the word and touch of power. What God does is well done. No tedious convalescence succeeds the breaking of the fever. As a token of gratitude the sick woman instantly rises from her couch and prepares a savory meal. All unconsciously she gives a convincing evidence of the perfection of her cure; at the same time she refreshes the master after the toils of the day and fortifies him for the overwhelming exactions of the early evening. For scarcely was the meal finished before the street in front of Peter's house was converted into a hospital. The miracles of the day had been a silver chime whose notes of hope had sounded in every shadowed home. In obedience to the encouraging call, when the setting sun had absolved the people from their overstrained notions of Sabbath observance, they came with confidence to him whose sovereign power had had such a conspicuous simplification. From one sufferer's mat to another Jesus walked in that hastily

extemporized lazar-house under the stars. Nor did he desist as long as there was a tiny sufferer left on any gentle mother's bosom. Now we know how Capernaum was lifted to heaven in point of privilege. No other city had such perfect exhibition of Jesus' power. In a single night every malevolent demon was expelled, every diseased person was made whole. The sun went down upon a sick and suffering city. It rose upon one healed and happy. Yet see once more the inveterate power of sin. Those mighty works produced no general or lasting faith in Jesus. Capernaum's doom was deserved. One fairly hears the master's stern words still waking the echoes of her desolation. "Thou shalt be brought down to hell!" In Hans Holbein's Dresden Madonna the babe in his mother's arms seems struck with deadly sickness. In the foreground stands a child whose radiant health makes sharp contrast with that of the puny babe. It is a picture of the legend that Jesus even in his infancy took upon himself the infirmities of others.

ELECTRICALLY CURED MEAT.

About ten years ago James M. Mauldin was testing out an electric motor, and using a vat of salt and water as a makeshift rheostat, as electricians sometimes do. One of the electrodes in the vat was weighted down with a brick. After the test Mauldin took the brick from the vat. It crumbled in his hand. The electricity had driven particles of salt clear through it. "Why couldn't electricity be made to drive salt into cured meats?" thought Mauldin.

As a concrete result of that thought, Mauldin now has finished an electric meat curing plant, which is a great time saver, says a Detroit newspaper. Since the art of curing meat by salt was discovered, meat has been cured in this way. A pickle is made of salt, sugar, saltpeter and water. The salt and saltpeter preserve the meat. The sugar flavors it. The meat is placed in this pickle and allowed to remain there from twenty-five to 105 days, according to the meat. Every once in a while the pickle must be changed and sterilized.

By the new process meat is put into a vat with the same sort of pickle. Electrodes are places at each end of the vat and between them alternates an electric current at the astonishing rate of 7,200 times per minute. And this drives the ingredients of the pickle thoroughly into the meat, just as it drove the salt into Mauldin's brick ten years ago. Besides this the pickle does not have to be changed or thrown away, as the electricity purifies it automatically. The process is completed in from three to twenty-five days, according to the kind of meat.

A piece of electric-cured bacon was sent to Doctor Wiley, at Washington. He put it under a glass case with a handful of skipper flies.

The skipper flies used their big eyes diligently trying to find a place which showed signs of incipient decay. One and all they failed. Not to be balked, they laid their maggot-inclosing eggs anyway. The eggs waited a spell for decay and when it did not appear they rolled off the meat disgustedly. This went on week after week with the same results. No decay nor maggots.

Doctor Wiley was delighted. The electric-cured meat was the only meat to stand such a test.

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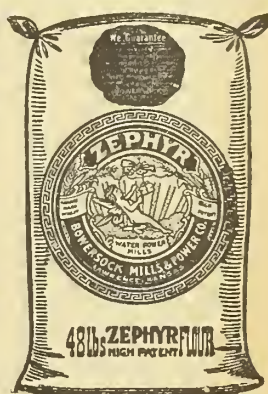
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Here is the richest, most glutenous Kansas hard wheat flour. Users of it tell us they get from 5 to 10 loaves more from Zephyr flour than from any other they ever used and far better quality, too. Think what money saving that means in your own particular case. The only guaranteed flour is



Zephyr Flour

Light, tasty bread, pies, cake, biscuits, pastry, etc., result from use of Zephyr flour because it is made from Kansas hard wheat, which is richest in gluten, the bread-making part of the grain.

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Zephyr flour must produce greatest number of loaves possible for any flour. It must fully satisfy you as to quality.

Or your grocer will refund all your money after you have used one-half of the 48-pound sack. You can't lose—we take every risk of fully satisfying you.

Insist on getting Zephyr flour—it has 30 years' experience back of it and it is worth your while to positively refuse to take any other flour. Begin a new baking era today. Bowersock Mills & Power Co., Lawrence, Kan.

We Guarantee

every sack of Zephyr Flour. It will satisfy you and it will produce as many loaves of bread per sack as any flour, or your grocer will refund your money.

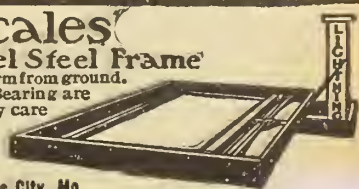
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(5)

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New Pattern. Solid Channel Steel Frame

Channels are seven inches which is the height of platform from ground. Levers are octagon in shape giving greater strength. Bearing are Toolsteel. This Scale will last a life time with ordinary care. Equipped with compound Beam Free. Furnished absolutely complete except platform planks. Guaranteed accurate and tested to more than its capacity. Write for prices and description before buying. KANSAS CITY HAY PRESS CO., 126 Mill St. Kansas City, Mo.





THE YOUNG FOLKS

A SUBJECT TO WRITE ON.

The editor of the Young Folks' Department believes that it would be interesting to have the numerous boys and girls who are sending in letters and articles from week to week tell just exactly how they like living on the farm and what part of farm work they like the best. The boys will probably write about outdoor things and the girls about housework, attending to the chickens and such details. There will doubtless be a great number of varying opinions as to what work about the farm and farm home is the nicest and which is the hardest and most monotonous. Let's get together on this subject and have some interesting, personal letters. It might do to make this the subject: "What I Like Best About Farm Work." Let the letters be a hundred or two hundred words long, plainly written. The writers' names will be printed and so the circle of young folks will get better acquainted and good will result. Send the letters in before March 15th, to Young Folks Editor, The Homestead, Des Moines, Iowa.

A Bright Farm Girl.

I am a little girl twelve years old. I go to town school and am in the seventh grade. My teacher's name is Miss Walker and I like her very much. We have a nine-months school. There are three rooms and twelve grades. Our school begins in September and closes the last of May. I have two sisters, Blanche, aged sixteen, and Grace, aged nineteen, and one brother, Harry, aged twenty-one. We live on a farm of 160 acres, one-half mile from town. My papa has seven head of horses and six head of cattle. My mama raises chickens every summer. Last summer she raised over two hundred. We have a pond in our pasture which in the winter time is covered with ice and makes a nice skating place. I have for pets a white Eskimo dog and three cats. The town near which we live is Garden Plain. This is a small town of about three hundred inhabi-

tants. It is settled mostly by German Catholics, there being but few Protestants. We have two churches here, the Methodist and Catholic. We attend the Methodist church. We have Sunday-school every Sunday and church every other Sunday.

Bessie Pierce.

Our Dog Carlo.

When we eat he will come along and sit up straight and beg for something. He will shake hands when you tell him to. I like to play with him and he likes to go in the woods with me in the summer. Wherever I go he wants to go, too. When I come home from school he always comes to meet me and he will be so happy. He is very fond of my papa and likes to play with him. His color is black and white. When he sees one of our cats he will chase after her as hard as he can. He is afraid of a gun and on the Fourth of July he is afraid when we shoot caps. When papa goes anywhere and Carlo cannot go, he will put his forepaws on the window sill and look out.

Frances Modi.

Studying the Poets in School.

I am twelve years old. I am getting along fine in school. We are studying about our good poets that we had a few years ago. We are reading in the Brooks' third reader and are pretty near through it now. I like it very well. When I am at home on Saturdays I help mama with the work. I have one sister who will be fourteen years old soon, but I have no brothers. My folks work quite hard every day, so they get tired when night comes. My home is on a farm and I am a farmer's little daughter. We have a few cows and two horses. Sometimes I have such fun with my playmates and I laugh like everything. My friends are good to me and I like to be good to them. I like to go to school because I like to learn many things. Teacher has not been mad at me yet because I always do what she tells me to.

Signa Leinum.

A School Entertainment.

One evening there was an entertainment at our school. I spoke a piece of twenty-six verses and took part in several plays. The upper grades sang "Tattle Tale." The girls came upon the stage dressed in white and wearing sweaters. They sang the verses and chorus and then the boys

came in dressed in sweaters and sang the chorus, pointing at the girls. When we got through the audience cheered us back and when we came back we sang the chorus and pointed at the audience.

Blodwen J. Davis.

Jennie Taylor.

Before Captain Taylor started for Cuba with his company, he had said to Jennie, his ten-year-old daughter, "My brave girl must take good care of mamma and the baby," and she had answered, "All right, papa, I'll do the best I can."

A month had passed and nothing unusual had occurred, when one stormy night she was awakened by her mother calling, "Jennie, oh, Jennie, come quick!" She hastened to her mother's room in great affright. She found her mother bending over the baby with a frightened look. When Jennie came into the room her mother said, "Oh, Jennie, I am afraid the baby is dying and there is no one here to go for the doctor." Jennie went over and looked at her little sister, and said, "Never mind, mother, I am not afraid to go out in the storm. I will go for help." She put on her warm cloak and hood and started for the nearest neighbors. The wind was blowing and the roads were very muddy, but Jennie never thought of them. In twenty minutes she was at the nearest neighbors, knocking for admittance.

When Mr. Brown came to the door and saw her all dripping wet with rain, he exclaimed, "Why, Jennie, what brings you here at this hour, and in such a storm?" In a few minutes she told him why she was there, and he told her to come in while he went and called his wife. Then he hurried to the barn to get his horse and buggy, and Mrs. Brown and Jennie rushed back to the home of the latter, while Mr. Brown went for the doctor.

They found the baby just as she had been when Jennie left home, and Mrs. Taylor wringing her hands in despair. They tried every remedy to restore the baby, but failed. The village where the doctor lived was about two miles from Taylor's, so it was only a short time before the doctor arrived. The doctor worked over the baby nearly an hour before she slowly opened her eyes. He gave Mrs. Taylor a few directions and said he would call in the morning and hurried away. For two weeks the baby was very sick, but after that time she began to recover. Jennie was a faithful little nurse while the baby was sick, and as soon as the baby was well again Mrs. Taylor wrote to her husband and told him what a brave little girl Jennie had been.

About a month after this Jennie received a letter and a package from

her father. Upon opening the package she gave a scream of delight, for there in a red velvet box lay a tiny gold watch with Jennie's name on the cover. She ran and showed it to her mother and then they both read the letter. It was a kind, loving letter to his brave little Jennie, and she was the happiest little girl in the world.

Dora Mailahn.

An Adventure With a Wolf.

Harry Hanson lived on the prairie where there were few trees of any kind. Only here and there were any bushes to be seen and near Harry's home there was not even a bush and the tall grass and wheat fields stretched on as far as the naked eye could see. In the winter there were no wheat fields nor green grass, but the prairie was covered with a white blanket of snow.

One bright winter morning Harry and his older brother Will went out to hunt rabbits or such game as they could find. They had walked a mile or more from their home when there appeared in the snow before them the track of some animal.

"Oh, Will!" cried Harry, who was the first to notice the track, "here is our game."

Will looked all around but could see nothing.

"Where?" he asked. Harry pointed to the tracks.

"Look," he said, "are they not the tracks of a rabbit?"

"No, indeed. Come on. They mean nothing," said Will, but Harry was determined to follow the track and see where they went to. Will, however, did not want to, so he left Harry and started off in another direction. Harry walked fast, whistling as he went, but kept in the track. He did not have to go far before he saw his game. A few yards away from him there stood a large prairie wolf. He walked up quite close to it before it saw him. It then turned around and looked at him. Harry did not have any rifle or gun, but he was not afraid. They stood looking at each other a few minutes, neither wishing to run away. The wolf at last took a few steps toward Harry, who also went back a little, but without turning around. Again the wolf went quite close to him, but he did not move this time, but called at the top of his voice:

"Will! Will! Come quick!"

He did not receive any answer, so he called again. This time Will heard his cry and ran quickly to him. He saw the wolf, and taking careful aim at him, fired. The wolf fell down stone dead. After that Harry found it wisest to do as the older people said.

Bert Perry.

Ask your neighbor to subscribe for The Homestead.



With High Movable All Copper Reservoir

A Perfect Baking Fuel Saver

The Range with a Reputation



Hundreds of Thousands of them in Use, Each One Giving Complete Satisfaction

These Prosperous Times Warrant The Best

of everything for the farmer—and the farmer's wife. You would not for a minute think of reverting to your grandfather's method of reaping grain with the scythe and cradle. Why then should your good wife suffer the annoyances and inconveniences of an old style cook stove, or cheap range. The best binder, mower, plow, or cultivator is none too good for your use—the best Range that money can buy is none too good for your WIFE.

The Great Majestic Range is indeed worthy of your most careful consideration. It is a Range with a reputation built on HONOR of the best materials—and while the first cost of a Great

Majestic may be more than some others, it out-wears three ordinary ranges, and its Fuel Saving, Baking and Water Heating qualities make it much cheaper in the end. Here are the reasons: The Majestic range is made of Malleable Iron, and Charcoal Iron. Charcoal Iron won't rust—Malleable Iron can't break. They are put together with Rivets (not bolts and stove putty) making them absolutely Air Tight like an engine boiler. No heat escapes or cold air gets into the oven, thus needing only half the fuel used in other ranges. Heat, causing expansion and contraction is what loosens the stove putty, opens the joints and cracks the cast parts of cheap ranges. All joints in Majestic Ranges are riveted, (no stove putty used) are airtight, and stay that way. The Majestic isn't lined with asbestos, paper covered with steel, but is lined with guaranteed pure asbestos board

The Great and Grand MAJESTIC Malleable and Charcoal Iron RANGE

one quarter inch thick, covered with an iron grate, put there to stay—you can see it.

The reservoir is all copper, heated like a tea kettle through copper pocket (stamped from one piece of copper) setting against left hand lining of fire box. It boils 15 gallons of water, and, by turning lever, the frame and reservoir moves away from fire. This feature is patented and is used only on the Majestic.

Remember these three important features: The material the Majestic is made of—the way it is put together—the reservoir—then glance at a few of the other features possessed by the Majestic that follow:

All doors drop down and form perfect and rigid shelves. Malleable oven racks slide out, automatically holding anything they contain. Open end ash pan prevents shoveling ashes out of ash pit. Ventilated ash pit prevents floor from burning. Ash cup catches ashes that would otherwise fall on the floor.

No springs anywhere to weaken or get out of fix. It's the best range at any price, and should be in YOUR kitchen. It is for sale by the best dealers in nearly every county in 40 states. If you don't know who sells them in your vicinity, write us and we will tell you, and send you our booklet "The Story of Majestic Glory." Every farmer's wife who contemplates buying a new range should first read this booklet.

Majestic Manufacturing Company,
Dept. 45 St. Louis, Mo.



With Pouch Feed, and Right Hand Fuel Reservoir

Pure Asbestos Lining

It should be in your Kitchen



With Water Front For Pressure Water Heating

Body made of charcoal iron, can't break or crack

FILTHY SWILL BARRELS.

Where refuse, grease, milk, whey and other things that go to make up swill are left in the barrel day after day, bacterial growth develop, fermentation occurs, and chemical changes take place which often more than counteract by their detrimental action any value that the swill might have.

Such filthy barrels are the most natural breeding places for disease germs. Scours is often caused by such uncleanness. A breeder with a filthy swill barrel need not consider it an act of providence if his pigs suddenly sicken and die. It is his own wilful act that is responsible. A filthy swill barrel is not alone unsightly, but dangerous. It should not

have a place on any farm. Boiling water and an old broom applied once a week will do much toward keeping it sanitary, and to an extent presentable.—From Coburn's "Swine in America."

Summing up the meat boycott the Lexington, Mo., Intelligencer says: "Other articles of food, such as eggs,

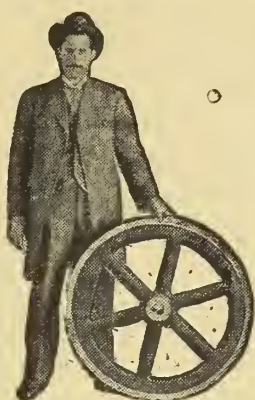
milk and butter, should be included in the boycott. And then all articles of clothing of woolen texture are exorbitant in price. Let's include them in the list. Cotton and linen goods have responded to the advance in woollens. Add them, also, and we are reduced to fig leaves. And here we find that even figs pay tariff toll and are controlled by a trust."



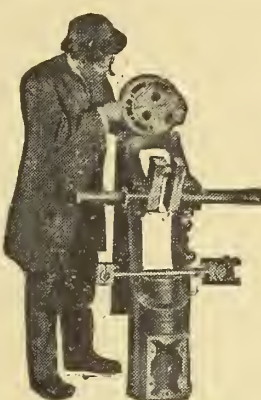
Connecting rod, turned from solid steel, not drop-forged as used in so-called standard engines. Bushings made of phosphorous bronze, perfectly adjustable and last a lifetime.



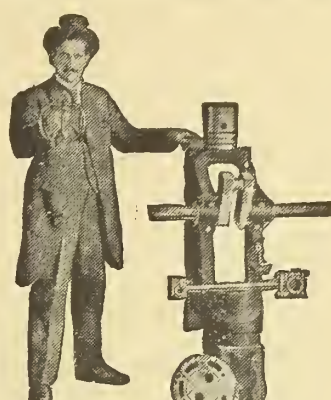
Here's a very important point. Our crankshafts are milled from solid steel. Not drop-forged. There is not one engine in a hundred has this high quality feature.



Heavy Flywheels on the Galloway made from the very best pig-iron. Perfectly balanced. Makes engines run like a silent dynamo. Turned out by special automatic machinery.



Cylinder head, showing how perfect a water circulation you get in the Galloway and yet frost proof. Every drop drains out instantly by simply opening the valve.



Here is the piston—in my right hand the piston rings. Made with finest automatic machinery—perfect in every way and as carefully made as the pistons of a \$5000 automobile.



Look here! This is the main frame of our engine showing the smooth, perfect bearings used on the Galloway. You will find on careful investigation that our bearings are tested down to one-tenth of an inch.

Nobody Else Will Show You These Points

READ these ten short points with photographs on high quality of materials and workmanship—which make the Galloway the simplest but most permanently satisfactory gasoline power engine in America today—guaranteed for five years.

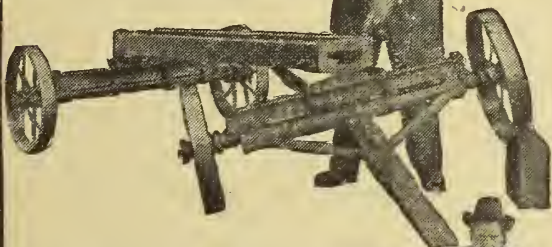
No other maker ever stripped his engines apart like this and photographed them, to explain their quality in his advertisements to you. And my free catalogs go into these points much more fully—with large photographs that you can examine like the engines themselves.

Thousands of my customers will tell you these facts—recommend Galloways above all others—at even more than twice my prices—for price, simplicity, dependability, durability and the many kinds of work they do on any place—winter or summer—safe and reliable and ready under all conditions, night or day.

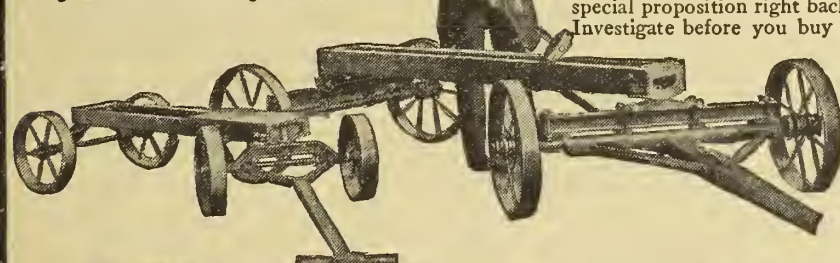
And they are the most economical on oil, and gasoline cost. They don't eat their heads off when not working. Pay better returns on investment for one Galloway than you'd make on several horses. And you can sell your poorest horse and get a 5-Horse Power Galloway at only \$119.50 which would cost you \$250 and more from other makers through local agents or dealers.

Why waste your cash then before writing me to investigate? It won't take but two or three days for you to get all facts—books—figures—photographs and my special proposition right back to you from me if you send me your name today. Investigate before you buy and then take my offer to send you your choice of my—

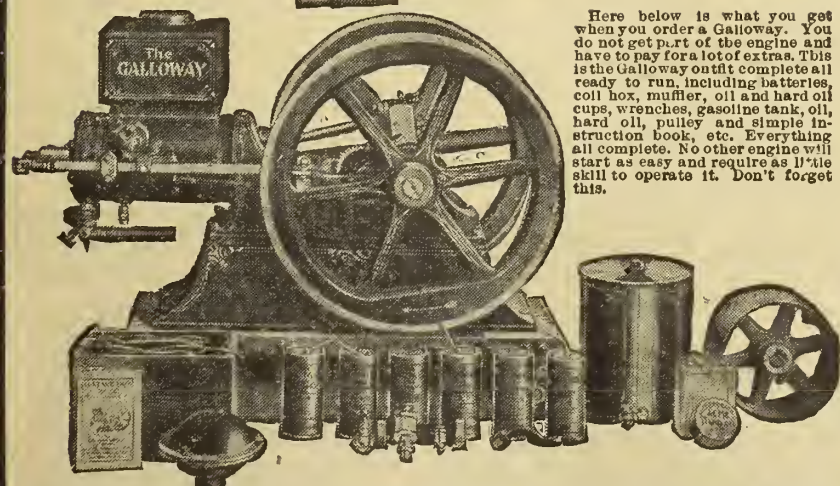
Look at this all-steel flexible horse Portable Truck. Made of heavy steel channels and "I"-beams. No wood except the tongue. Will last a lifetime. Worth twice the average portable truck offered by so-called standard manufacturers. Put it right side by side with theirs and make your own comparisons. We defy competition on this truck.



Here below is our hand portable at the left. Made on same plan as above, only smaller. These are both something new in portable trucks. You can pound these truck frames all day with a sledge hammer and you could not break them. Like all Galloway goods, they are built to stand hardest tests and to sell more goods. That is the secret of our great and tremendous engine trade.



Here below is what you get when you order a Galloway. You do not get part of the engine and have to pay for a lot of extras. This is the Galloway outfit complete all ready to run, including batteries, coil box, muffler, oil and hard oil cups, wrenches, gasoline tank, oil, hard oil, pulley and simple instruction book, etc. Everything all complete. No other engine will start as easy and require as little skill to operate it. Don't forget this.



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I'll write you personally and make you an offer so your Galloway Engine can pay for itself. Pick out the Galloway you want to try for 30 Days Free on your work, from my New Gasoline Engine Book for 1910, illustrated in actual four colors.

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NEWS OF THE SALE RING

THE Duroc Jersey hog has been the chief center of attraction since the report of public auction sales was made in last week's issue. Very satisfactory averages have been made on the whole, although we have to record a few instances where full value for breeding animals was not received. The high-water mark on the average was made by Stemen & Son, of Middlepoint, Ohio, their average being \$77.75 on all animals sold. The top in that sale was \$400. In the cattle ring interest was divided between the Short-horns and the Holstein-Friesians. The sale of Mr. George H. Burge, of Mt. Vernon, Iowa, was a notable success, as nine of his young bulls averaged \$331, while all animals sold placed the average about \$200. The Holstein sale held at the University of Wisconsin, at Madison, was an event of more than ordinary importance as indicated by the uniformly satisfactory prices received. At that sale eighty-one head sold for an average of \$151.97. That average was attained without any boom prices, because the top was \$330.

Stemen & Son's Duroc Sale.

On Saturday of the Ohio Sale Circuit Messrs. E. C. Stemen & Son, of Middlepoint, Ohio, made a good sale. The average of all animals sold was \$77.75. The highest priced sow of the year at auction was sold in this sale to Mr. C. B. Ross, of Blanchester, Ohio. She was a daughter of Muncie Chief and sold at \$400. Mr. H. E. Browning being the contending bidder. Mr. Ross secured most of the good ones and was the heaviest buyer at the sale. Colonels Igleheart and Reppert worked hard for the success of the sale. Below we give list of buyers: L. M. Barnes; O. F. Fuson, Lewistown, Ohio; Albert Barnes, Van Wert, Ohio; L. C. Raubottom, Elida, Ohio; W. R. Davis, Venedocia, Ohio; Wm. Kolthoff, New Bremen, Ohio; Frank Osmus, Haskins, Ohio; C. V. Wright, Ada, Ohio; C. B. Barnes; Omer Small, Meadow, Ohio; A. R. Cleland, Macy, Ind.; C. V. Wright, Ada, Ohio; R. W. Daily, Craigville, Ind.; E. H. Young, Sidney, Ohio; G. S. Nuding, Mendon, Ohio; T. T. Jones, Venedocia, Ohio; F. Schoonover, Kentland, Ind.; W. C. Swirt, Gallion, Ohio; W. H. Breneman, Elida, Ohio; J. F. Garrison, New Weston, Ohio; O. P. Blue, Hamler, Ohio; Thos. Johnson & Son, Columbus, Ohio; C. S. Stanfield, Van Wert, Ohio; Isaac Stewart, Ada, Ohio; J. C. Barney, Coldwater, Mich.; H. G. Keesler, Casopolis, Mich.; O. P. Shoots, Marion, Ohio; Walborn & Son, Van Wert, Ohio; L. E. Haffline, Van Wert, Ohio.

Frank Elder's Sale of Durocs.

The sale of Duroc bred sows held by Mr. Frank Elder, of Green, Kan., at Clay Center, Kan., on February 17th, proved an exceptional sale at which to get some as good brood sows as are found. Mr. Elder also included G. C. Col., one of his great Col. herd boars, and as buyers for boars were absent he went down at the low price of \$100. Messrs. Grant Chapin, of Green, Kan.; Thompson Bros., of Garrison, Kan.; and Geo. Hammond, of Manhattan, Kan., being the buyers. These gentlemen appreciated his value as a breeding boar and took him in order that each might get a few litters by him. Mr. W. T. Hutchenson, of Cleveland, Mo., secured four sows, topping the sale with Lot 3, Red Princess, one of the great sows of the breed. The selling price was \$125. Mr. Grant Chapin took four good sows and was a liberal bidder on the mature sows. Mr. Elder demonstrated that he knows how to grow them, that he has the boars and sows that produce good ones, and while the general average of

\$53.71 on the one boar and thirty-five bred sows looks good, it does not represent the value of the stock as breeding stock. Colonels McCulloch and Brady conducted the sale. Following is a list of all buyers: Chapin, Thompson Bros. & Hammond; Grant Chapin, Green, Kan.; W. T. Hutchenson, Cleveland, Mo.; J. E. Joines, Clyde, Kan.; C. C. Hagenbuch, Morganville, Kan.; G. W. Carney, Ulrich, Mo.; F. J. Miller, Wakefield, Kan.; Geo. Hammond, Manhattan, Kan.; Thompson Bros., Garrison, Kan.; Samuelson Bros., Manhattan, Kan.; B. F. Harris, Guthrie, Okla.; A. J. Sweet, Clifton, Kan.; E. P. Flannigan, Chapman, Kan.; C. E. Lankford, Creighton, Mo.; J. Riek, Elder, Kan.; Dr. B. Norman, Frankfort, Kan.; L. E. Kretzmeyer, W. E. Shafner, Chapman, Kan.; A. B. Skadden, Frankfort, Kan.

Burge's Successful Short-horn Sale.

One of the most successful Short-horn sales of the entire season in the middle West was that held by Mr. George H. Burge, at Mt. Vernon, Iowa, on Thursday, February 17th. The bulls, nine in number, sold for an average of \$331, and ranged in age from two years down to nine months, and were the best lot of bulls, the production of one man's herd, that has gone through an auction ring in many years. Mr. C. O. Greve, of Lyons, Iowa, topped the sale, securing a splendid yearling son of Hopeful Knight at \$510. Mr. M. E. Slemmons, of Iowa City, Iowa, secured another son of this great bull called Royal George, at \$500. Cols. Griff Johnson and E. S. Johnston sold the offering and were ably assisted in the ring by Colonels Fagin and Brock. An average of over \$200 was made on the entire offering. The list of buyers follows: J. N. Dunn, Central City, Iowa; Emil Western, Norway; C. E. Benson, Harris; W. R. Hakes, Williamsburg; Carl Burge, Mt. Vernon; Emmett Camp, Marion; Wm. A. Hale, Anamosa; Wm. Herkleman, Elwood; A. Muench, Ogden; G. H. Whitman, Lisbon; Held Bros., Hinton; C. E. Kohl, Mechanicsville; Lien Bros., Platte, S. D.; J. J. Sinkey, Walker; S. K. Slemmons, Iowa City; E. M. Hanna, Anamosa; H. G. Bosch, Haverhill; J. W. Dobson, Garwin; S. W. Wright, Belle Blaine; R. S. Richardson, Jefferson.

The C. W. Huff Sale.

A rather bad day interfered with the C. W. Huff sale at Mondamin, Iowa, on February 16th, but notwithstanding this and delayed trains a good crowd was on hand and the entire offering was disposed of at an average of \$37. No. 3, a daughter of J. D. Improver, topped the sale at \$140, going to Mr. John R. Tupper, of Woodbine, Iowa. She was bred to the noted sweepstakes boar, B. & C's Col., and she was a good bargain at that figure. Colonel Reppert cried the sale. Below is a list of buyers: Fairchild & Stevenson, Onawa, Iowa; W. L. Hull, Logan, Iowa; D. P. Erickson, Mondamin, Iowa; O. S. Larson, Logan, Iowa; John Hartigan, Ute, Iowa; Henry Johnson, Pisgah, Iowa; E. B. Ryan, Neola, Iowa; Caine Bros., Kiron, Iowa; J. P. Garner, Mondamin, Iowa; T. E. Bly, Brewster, Minn.; W. W. Scholes, Onawa, Iowa; W. S. Kelly, Mondamin, Iowa; Perry Livingood, Castana, Iowa.

Buck & Miller's Duroc Sale.

Messrs. Geo. B. Buck and Geo. L. Miller sold a splendid consignment of Duroc Jerseys at Sunnyhill, Ill., on Thursday, February 10th. There was a large crowd of farmers and breeders present. Mr. J. A. Smith, of Victor, Iowa, topped the sale, securing a splendid sow bred to Defender, the grand champion boar, at \$137.50, and Mr. Ernest Pancake, of Ransom, Ill., secured a daughter of Ohio Chief bred to Crimston Wonder 3d at \$137. Cols. Fred Reppert, C. C. Plumley and Nelson Krachel sold the offering in a highly satisfactory manner. An average of \$43 was made on the entire offering. List of the buyers follows: H. E. Browning, Hersman, Ill.; Jay Casteel, Cambridge, Ill.; Gus Lauson, Crampton, Ill.; S. E. Eakle, Prophetstown, Ill.; W. A. Fell

Cambridge, Ill.; Chas. Holland, Coal Valley, Ill.; L. White, Monmouth, Ill.; J. H. Denheart & Son, Neenah, Wis.; Oscar Bremer, Orion, Ill.; Wm. Ash-town, Port Byron, Ill.; Massey Bros., Jerseyville, Ill.; Moorehead & Son, Blue Grass, Iowa; W. P. Childs, Princeton, Ill.; Carl Schmidt, Coal Valley, Ill.; Chas. Sheppard, Muscatine, Iowa; Fred Schrader, Coal Valley, Ill.; Archie Neville, Osco, Ill.; John Bailey, Coal Valley, Ill.; Hanks & Bishop, New London, Iowa; Zimmerman & Kays, McNabb, Ill.

Mahan Bros.' Sale.

One of the good Duroc Jersey sales of the year was that of Messrs. Mahan Bros., at Osborn, Ohio. The average of all animals sold was \$70.10. Mr. C. E. Ross, of Blanchester, Ohio, secured the two top sows of the sale at \$275 and \$250 respectively. The local crowd took a large part of the offering at good prices. Colonels Igleheart and assistants did the selling in their usual effective manner. Below we give list of buyers: Unger & Alter, Forest, Ind.; S. M. Hawk, Osborn, Ohio; Whitehall Farm, Yellow Springs, Ohio; A. Gerlaugh, Osborn, Ohio; J. A. Middleton, Shelbyville, Ky.; W. S. Wright, Newark, Ohio; Chas. H. Drury, Irvington, Ky.; W. E. Everhart, Mechanicsburg, Ohio; Watt & Foust, W. H. Glasser, Lebanon, Ohio; C. C. Neff, Osborn, Ohio; O. P. Brandenberg, T. A. Roulson, Tippecanoe City, Ohio; Henry Nieporte, Osborn, Ohio; Thos. Johnson, Columbus, Ohio; Walter Abernathy, Liberty, Ind.; O. M. Fell, Lynchburg, Va.; Mahan Bros., Osborn, Ohio; Dwight Lincoln, Milford Center, Ohio; Geo. W. Balda, Bryant, Ind.; I. J. Lorton, Union City, Ind.; Wm. H. Link, Remington, Ind.; H. E. Heron, Hartford City, Ind.; Wm. Levan, Xenia, Ohio; C. C. Folch & Son, Osborn, Ohio; Jones & Van Keys, Franklin, Ind.; Geo. B. Johnson, Osborn, Ohio; E. C. Stemen & Son, Middlepoint, Ohio; W. F. Smith, Springfield, Ohio; Geo. C. Voge, W. Alexander, Ohio.

Lon Hodson's Duroc Sale.

The last sale of the season in Indiana was held by Mr. Lon Hodson, at his farm near New Castle, Ind., on February 16th. It was very satisfactory to the seller. The average of all animals sold was \$53.10. Below we give list of buyers: J. W. Stark, Rushville, Ind.; Swain & Zeublin, Pendleton, Ind.; J. H. Tarkington, Kokomo, Ind.; Carl Scott, Selma, Ind.; A. C. Lowry, New Castle, Ind.; E. W. Cummings, Brownsburg,

Ind.; A. B. Barnard, New Castle, Ind.; G. O. Bartley, Fisher Station, Ind.; Eli Archer, New Castle, Ind.; R. Sanders, Carthage, Ind.; H. D. Brown, Campbelltown, Ohio; J. B. Greenstreet, Lewisville, Ill.; O. P. Cramer, Summitville, Ind.; W. Thompson, Letts, Ind.; M. McCormick, New Castle, Ind.; Chas. Hoover, Middletown, Ind.; S. H. Hill, Arcadia, Ind.; Ned Johnson, Kennard, Ind.; J. Radcliff, New Castle, Ind.; L. E. Houser, Garrett, Ind.; E. B. Swartz, New Castle, Ind.; E. H. Bond, Char-lottsville, Ind.; G. V. Beamer, Wabash, Ind.; T. F. Shetterly, Lapel, Ind.; Brownberg Bros., Anderson, Ind.; A. Butler, Spiceland, Ind.; C. M. Wise, New

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SEED CORN

GROWN from Pedigreed Stock Seed by Expert Seed Corn growers. Critically hand selected, each individual ear being examined carefully, Graded for edge dropping and thoroughly Tested, so that we know that it will grow and give satisfaction, if conditions are favorable. The per cents stated show what the various sorts have grown in our tests. There is a great demand, and supply will soon be exhausted. Order quick if you want it, and should it not please you in any respect, send it back within ten days and we will return your money.

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	Matures.	Per Bu.	2 Bu.	10 Bu.
Iowa Silver Mine. Most productive variety in existence; its pure white; has large ear; deep kernel; tests 92%.....	95 days	\$3.00	\$5.80	\$27.50
Prosperity. Large and perfect-shaped ear; bright yellow; deep grained and an immense cropper; tests 94%.....	95 "	3.00	5.80	27.50
Farmer's Reliance. Medium-sized, good-shaped ear; very early; tests 96%.....	90 "	3.00	5.80	27.50
Legal Tender. Large, long ear; somewhat late; tests 92%.....	110 "	2.75	5.20	25.00
Early Yellow Dent. We recommend this as good-sized ear; quite early, and believe it would make a good crop anywhere in Iowa. Tests 94%.....	95 "	2.50	4.70	22.50
Profit. Very deep grain and the really profitable corn for cattle feeders; tests 88%.....	100 "	3.00	5.80	27.50
Pride of the North. Earliest of all; tests 95%.....	90 "	2.75	5.20	25.00
Star Leaning. An improvement on the old Leaning and a favorite for main crop; tests 94%.....	100 "	2.50	4.80	22.50
Iov. a Yellow Dent. A cheap kind, popular with customers who simply want something which will grow. Tests 90%.....	100 "	1.75	3.20	15.00

Price includes bags. Sample and Descriptive Catalog free. Speak quick if you want it.

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Never was so much manure piled around the barns and feed lots as there is this year. Never in 15 years has there been such a need for manure spreaders as there will be this spring? I say again, are you ready? You've been seeing my ads this year, last year and the year before. Never wrote me yet, did you? Just because I advertise you have often wondered if Galloway was really giving the value-the quality.

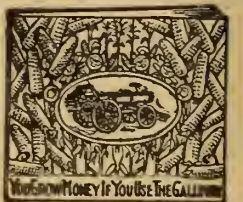
Say! Do you know that that is the reason I sell so many, just because I tell the people about them. All there is to selling the Galloway is simply telling the people about them. That's how I have got the biggest spreader factory making wagon box and complete spreaders, 100 a day, more on mighty short notice. I'm ready. Are you ready?

Don't put off that manure spreader matter one more day. Don't let it lie over night. Rouse out your pencil and drop me a card for my spreader catalog. Get it and investigate. Its full of live facts. You can't tell how good and valuable it is till you see it. Make yourself acquainted with the biggest thing in Manure Spreader History. That is the Matchless Galloway Wagon Box and Complete Spreaders. Made in enormous quantities in my own factories at Waterloo, Iowa. Priced right, guaranteed absolutely. What I say to you is in black and white. I write it in the contract. Whatever promises, claims or challenges I make, I write it in the contract. No verbal promises go with you. I put it up to you unreservedly. There are no strings to my promises to you.

Here's a sport: "Try my Galloway Spreader 30, 60, 90 or 120 days. If you are not satisfied, I will pay the freight both ways and refund every cent of your money with 6 per cent interest."

NOW GET your letter, postal card, telephone or wire into my office. Ask me to send you my Book of Facts on the manure spreader. Today, right now, is the best time. Do it before some other thing comes up. Write me now for my Manure Spreader Catalog. Write me the kind of trial proposition you'd like to have.

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There is going to be the hottest rush for manure spreaders this spring that ever happened in Manure Spreader History, and I am prepared for it. I had the bunch 6 months ago. It's not too late now for you to write me and it isn't a moment too soon. Do it then while you have it in mind, today. Get my special prices and proposition NOW.

Castle, Ind.; J. S. Nicholson, Springport, Ind.; David Trice, Lewisville, Ind.; H. G. Keesler, Casopolis, Mich.; C. Davis, New Castle, Ind.; L. J. Baker, Carthage, Ind.; Val Gold, New Castle, Ind.

The Madison Holstein Sale.

The Gay Stock and Dairy Farm sale of Holsteins, at the University pavilion, in Madison, Wis., on February 19th, attracted buyers from Iowa, Minnesota, North Dakota, Wisconsin, Illinois, Indiana and Michigan. The average on all animals sold was \$151.97. The females were in strong demand and brought good prices without much coaxing from Auctioneer Kelly, of Syracuse, N. Y. The bulls were less sought after and in consequence brought down the average of the sale. Madison Diamond, a nice, roomy five-year-old, topped the sale at \$330. Mr. Frank Fargo, of Lake Mills, Wis., started the cow at an even \$200, but she was much wanted by several others. Mr. Christian Sprecher, of Plain, Wis., outdistanced an Iowa bidder who had designs upon her. A list of buyers is hereby given: Ed Freese, Cornell, Wis.; C. L. Sprecher, Plain; J. P. Bischoff, Delphi, Ind.; J. H. Wall, Elkhorn; F. W. Kendall, Sun Prairie; Wm. Moore, Verona; F. B. Fargo, Lake Mills; Wiechtmann Bros., Bell Center; H. H. Hadler, Goodhue, Minn.; Wm. Everson, Lake Mills; Chas. Kaste, Cream; Renner Nettesheim, Waukesha; L. J. Miller, Turkey River, Iowa; Howard T. Evans, Eau Claire, Mich.; A. K. Kendall, Madison; S. C. Stanfield, Fond du Lac; Frank Eckstein, South Madison; Levi Jones, Endeavor; J. P. Davis, Barneveld; Ralph Harvey, Evansville; W. B. Loveland, Janesville, Iowa; Carl Fell, Deerfield; John Konz, Fairchild; F. E. Bloker, Janesville, Iowa; P. A. Lien, Stanley; A. Paddock & Sons, Salem; J. W. Condon, Pewaukee; A. K. Reindahl, Madison; Harry Stanz, Fond du Lac; Christ Beingold, Vernon; M. B. Persons, Plum City.

The Moats Duroc Sale.

The first sale ever made by Messrs. M. S. Moats & Son, at Missouri Valley, Iowa, brought out a good crowd and they sold forty-seven head at an average of \$45.06. The top was \$101, paid by Mr. Roy Mason, of Missouri Valley, Iowa, for Sunlight, a daughter of Glendale Critic. The prices were uniform and were very satisfactory. Colonels Reppert and Luther were the auctioneers. Below we list the buyers: C. W. Huff, Mondamin, Iowa; J. W. Deal, Missouri Valley, Iowa; C. C. Brannon, Missouri Valley, Iowa; E. B. Ryan, Neola, Iowa; W. Allen Jones, Missouri Valley, Iowa; R. W. Blackman, California Jct., Iowa; A. Lentz & Son, Pierson, Iowa; W. L. Hull, Logan, Iowa; Wm. M. Jones, Missouri Valley, Iowa; Max Hast, Arion, Iowa; W. S. Gier, Missouri Valley, Iowa; Miss Carry Moats, Missouri Valley, Iowa; T. E. Bly, Brewster, Minn.; R. W. Harvey, Missouri Valley, Iowa; E. Z. Russell, Blair, Neb.; J. F. McGovern, Missouri Valley, Iowa; E. M. Golden & Son, Glidden, Iowa; R. W. Mason, Missouri Valley, Iowa; W. D. Earnest, Logan, Iowa; Reynolds & Schwery, Defiance, Iowa; J. G. Sarvey, Missouri Valley, Iowa; Theo. Wick, Arion, Iowa; J. E. Jones, Missouri Valley, Iowa; C. A. Warrick, Blair, Neb.; J. A. Darling, Missouri Valley, Iowa; Joseph Johnson, Missouri Valley, Iowa.

Tupper Averages \$53 on Durocs.

One of the largest crowds of the season attended the sale of Mr. John R. Tupper, at Woodbine, Iowa, on February 17th, and thirty-seven head of hogs were disposed of at an average of \$53. It was a most excellent sale and considering the uniform range of prices it must be put down as one of the best sales held this season. Colonel Reppert cried the sale with Colonels Kraschel and McMurray in the ring. Following is a list of buyers: Geo. Kauffman, Woodbine, Iowa; Otto Stiehl, Woodbine, Iowa; E. J. Logan, Woodbine, Iowa; M. H. Baker, Woodbine, Iowa; E. C. Shriver, Glidden, Iowa; John Hood, Woodbine, Iowa; C. W. Holton, Woodbine, Iowa; Frank Tupper, Woodbine, Iowa; A. J. Shinn, Woodbine, Iowa; Woolson Craft, Vail, Iowa; J. E. Shepherd, Woodbine, Iowa; Clay McKenzie, Woodbine, Iowa; H. H. Turton, Woodbine, Iowa; J. W. Mincey, Woodbine, Iowa; L. S. Matter, Woodbine, Iowa; O. S. Larson, Logan, Iowa; E. B. Ryan, Neola, Iowa; A. P. Alsin, Boone, Iowa; Geo. Kauffman, Jr., Woodbine, Iowa; A. Lentz & Son, Pierson, Iowa; E. E. Handley, Carroll, Iowa; Henry Thomas, LaFontaine, Ind.

Keasey and Campbell's Poland China Sale.

Messrs. E. D. Keasey and A. R. Campbell held a public sale of Poland China brood sows at the farm of Mr. Keasey, near Wiota, Iowa, on the 17th of February. Fifty-one head were disposed of at an average of \$31.01 each. The range of prices was rather lower than the quality of stock was deserving of. Some animals possessing actual show-bird merits were sacrificed at around \$40 per head. The crowd, however, did not seem to be looking for quality and finish as much as for coarseness and big bone. The top price of the sale was \$57.50. This was paid for the yearling sow, Lady Osborne, by Osborne's Chief, dam an Expansion-bred sow. This sow was purchased by Mr. M. Davin, of Clinton, Iowa. A list of the buyers includes the names of Oscar Ostrus, Wiota, Iowa; Wm. Watters, Wiota, Iowa; E. N. Bowen, Madison, S. D.; H. P. Dasher, Wiota, Iowa; C. Oakes, Adair, Iowa; J. F. McGovern, Atlantic, Iowa; Tom Sellers, Vinton, Iowa; Wm. Keenan, Wiota, Iowa; R. R. Bell, Wiota,

Iowa; Jas. G. Long, Harlan, Iowa; Henry Duden, Wiota, Iowa; C. F. Nichols, Wiota, Iowa; T. F. Connor, Wiota, Iowa; A. Stevenson, Adair, Iowa; and E. O. Ehrman, Wiota, Iowa.

The Hager Duroc Sale.

Quite a good crowd attended the August Hager sale on February 12th, and forty-three head were disposed of at an average of \$33. There were no high prices paid, but the offering was all taken readily by those attending the sale. The offering should have brought a little more money, but Mr. Hager said sell sows and the entire lot were disposed of at the above average. Below we list the buyers: Earnest Bockert, Avoca, Iowa; C. E. Veak, Essex, Iowa; P. H. Martin, Griswold, Iowa; Bert Orth, Shelby, Iowa; A. Meredith, Avoca, Iowa; F. H. Gromer, Minden, Iowa; Henry Bloomer, Shelby, Iowa; W. O. Rink, Shelby, Iowa; Louis Hagadorn, Avoca, Iowa; J. W. Warner, Hancock, Iowa; H. W. Miller, Walnut, Iowa; W. L. Smith, Avoca, Iowa; A. Gries, Avoca, Iowa; Fred Kay, Minden, Iowa; A. J. Menefee, Adair, Iowa; Theo. Nelson, Harlan, Iowa; H. Reiner, Minden, Iowa; Frank Laird, York, Neb.; G. W. Hockett, Manning, Iowa; O. H. Wonder, Shelby, Iowa; S. Schuester, Shelby, Iowa; W. W. King, Carson, Iowa.

Walker's Polands Sell Well.

Messrs. Thos. F. Walker & Son, of Alexandria, Neb., made a very good sale at Fairbury, Neb., on February 9th, selling forty head for an average of \$49 per head. The fact that they were driven over rough roads from depot to sale barn made several lame and hurt the sale considerably. The top sow of the sale was Lot 1, Blue Valley Model, a great yearling show prospect, going to Mr. Wm. Lentz, of Ankeny, Iowa, at \$172.50. Col. Z. S. Branson did the selling. The buyers' names follow: W. A. Prewitt, Asherville, Kan.; M. E. Vandenberg, Sargent, Neb.; Phil Dawson, Endicott, Neb.; J. C. Fields, Fairbury, Neb.; W. E. Epley, W. E. Long, Ozawie, Kan.; J. T. Wolf, Deshler, Neb.; Geo. Smith, Fairbury, Neb.; H. H. Hess, Surprise, Neb.; Joe Henne, Williamsburg, Kan.; Chas. Hansen, Edgar, Neb.; O. E. Rector, Lincoln, Neb.; W. A. Mubard, Fairbury, Neb.; George Brown, Elk Creek, Neb.; Thos. Rachburn, W. F. Proett, Alexandria, Neb.; J. H. Hitch, Geneva, Neb.; J. Thos. Rathburn, Fairbury, Neb.; Eli Schultz, Fairbury, Neb.; W. F. Buchheim, Leocompton, Kan.; Geo. Walker, Wigwam, Colo.; Louis Jensen, Fairbury, Neb.

Eakle's Duroc Sale.

On Tuesday, February 8th, Mr. S. E. Eakle, of Prophetstown, Ill., sold an excellent consignment of bred Duroc Jersey sows from his well-known herd at an average of practically \$45. On

account of a railroad wreck many of the buyers were not able to get to the sale. Otherwise the average would have been considerably higher, as the stock merited more money. Mr. Peter Streit, of Lamolite, Ill., topped the sale, securing the splendid daughter of Gold Cloud and Helen Blazes 2d at \$72.50. Mr. Ernest Pancake, of Ransom, Ill., secured the daughter of Model Chief at \$70, and she was certainly a bargain at the price. Cols. C. C. Plumley and Geo. B. Buck sold the entire offering and were assisted in the ring by G. F. Devenney and L. H. Olton. The buyers were: Simon Jacquot, Prophetstown, Ill.; R. Sibley, Prophetstown, Ill.; Frank Belt, Lyndon, Ill.; Geo. B. Buck, Sunnyhill, Ill.; Geo. L. Miller, Coal Valley, Ill.; H. E. Browning, Hersman, Ill.; Irvin Stevens, Prophetstown, Ill.; D. W. Pollock, Polo, Ill.; Zimmerman & Kays, McNabb, Ill.; A. S. Newlin, Prophetstown, Ill.; Mr. Williams, Prophetstown, Ill.; W. H. Moody, Cordova, Ill.; E. H. Chantham, Erie, Ill.; Frank Seaman, Prophetstown, Ill.; J. T. Winkler, Prophetstown, Ill.; Lewis Olton, Rock Falls, Ill.; Geo. Mabley, Prophetstown, Ill.; L. Beagle, Prophetstown, Ill.; James Lowrie, Prophetstown, Ill.

Carey Cameron's Bred Sow Sale.

Forty head of Duroc Jersey spring gilts all bred by Mr. Carey Cameron, of Herman, Neb., and sold in his sale on February 21st, averaged \$56.41. It was a good sale from start to finish and it was a splendid offering. When you consider that there was not a yearling nor an aged sow in the sale you will fully realize how good this sale was. No. 31, a daughter of Russell's Choice, topped the sale at \$110, going to Mr. R. J. Wyland, of Canistota, S. D. We submit a list of buyers herewith. Col. Geo. P. Bellows cried the sale: H. G. Clark, Craig, Neb.; Chas. Warner, Pender; E. C. Pilcher, Blair; G. L. Tucker, Blair; Elsie King, Herman; Chris Christensen, Herman; John Hansen, Herman; F. E. Fletcher, Herman; S. L. Wilson, Walt Hill; O. S. Langswisch, Hooper; Jean Burdick, Herman; Antoine Peterson, Herman; C. R. Gray, Herman; G. W. Hungate, Herman; J. Stokes, Herman; Sam Holstein, Herman; Fred Flake, Herman; John Cameron, Herman; Frank Rohlf, Arlington; Ole Olson, Herman; Harry Erickson, Herman; Walter Warner, Pender; John Hilgencamp, Arlington; Will Behrnt, Herman; E. Z. Russell, Blair.

The W. L. Hull Duroc Sale.

The first public sale of Mr. W. L. Hull was held at his farm near Logan, Iowa, on February 18th, and forty head made an average of \$44. Col. Reppert cried the sale. Below is a list of buyers: M. A. McWilliams, Wall Lake, Iowa; J. Lyons, Logan; J. J. Armstrong, Logan; Geo. Coffman, Woodbine; C. W. Holt, Woodbine; C. R. Hardy, Logan; Otto Stiehl, Woodbine; H. Claussen,

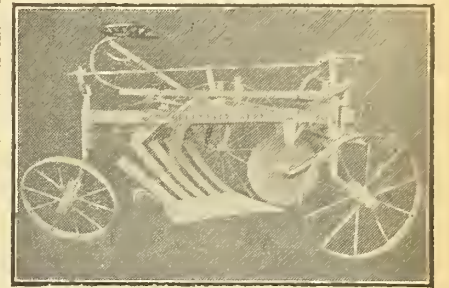
Logan; O. S. Larson, Logan; L. C. Coon, Logan; John R. Tupper, Woodbine; M. S. Moats, Missouri Valley; W. M. Putman, Tecumseh, Neb.; C. W. Huff, Mondamin; E. B. Ryan, Neola; Frank Hill, Logan; Floyd Knapp, Redfield; J. W. Hudson, Logan; Geo. Johnson, Essex; W. M. Mahoney, Logan; J. A. Lyons, Logan; E. M. West, Logan; Claus Helm, Logan; Theo. Nelson, Harlan; John Goddard, Harlan.

Hitch Makes Great Poland Sale.

For the first sale, Mr. J. H. Hitch, of Geneva, Neb., had one of the strongest sales of the season on February 14th, making an average of \$57.50, with but four sows in the offering. The top price paid was \$117.50, paid by Mr. Jacob Pflug, of Exeter, Neb., for Lot 1, Belle's Echo, a choice sow bred to Hadley Chief for an early litter. The top price for gilts was paid by Mr. W. J. Hather, of Ord, Neb., for Lot 23, a choice gilt by Hadley Chief. The local farmers were strong buyers and the sale was snappy from the outset. A day like

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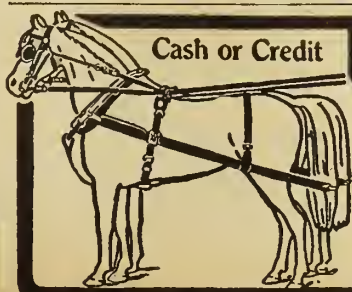
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Country telephones are safe at last! Get Shinn Telephone Lightning Arrester at your dealer's. Have him adjust it on the outer wall of your home. Then you are absolutely safe in using the 'phone during the worst storms! And you

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derstorm Machine. It shows just how and why lightning strikes and how Shinn Rods protect your family and property.
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Mr. W. C. Shinn, the Conqueror of Lightning, has written a mighty interesting book—"Lightning and How to Control It." It tells plainly all nature's lightning laws in a fascinating way; how houses and barns take fire, and how people and stock are killed; why water drains, stoves and iron beds are very dangerous during thunder and lightning storms; explains fully how and why Shinn's Copper Cable Lightning Rods prevent strokes absolutely. This book is free for the asking.
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spring served to swell the attendance. The names and addresses of the purchasers that paid \$30 or more are here appended: R. F. Brown, Geneva, Neb.; J. F. Reinke, Deshler; M. S. Frantz, Geneva; J. C. Diedrich, Geneva; John Riel; Jackson Walden, Strang; Geo. Johnson, Geneva; Henry Bauer, Geneva; Wm. Longley, Lexington; H. L. Voight, Davenport; Blair Bros., Geneva; C. H. Beeth, Elk Creek; Jas. Huston, Fairmont; Thos. F. Walker, Alexandria; I. C. Jennings, Geneva.

Wheeler's Mastodon Dispersion.

The most important event in Poland China circles of the year and, in fact, of recent years, was the final dispersion of the Wheeler Mastodon herd of Poland China hogs which took place at Harlan, Iowa, on Thursday, February 24th. The occasion was one of recognized importance and therefore brought together a delegation of prominent breeders from all over the hog-producing section. Many others who were unable to be in attendance were represented by mail bids. The sale was opened by Col. H. S. Duncan, who presented an able argument for the Mastodon and conducted the sale in a manner at once creditable to himself and satisfactory to his patrons. The leading point of interest in the sale was the disposal of the principal herd boar, A Wonder 107353. He was started out at a \$100 bid by Colonel Duncan and after a little preliminary skirmishing the fight for him settled down between Mr. H. Fessenmeyer, of Clarinda, Iowa, and Mr. Geo. F. Marshall, of Monroe, Iowa, the latter being represented by Mr. Carlin, of The Homestead. Mr. Fessenmeyer finally secured the hog at \$345, which was generally acknowledged to be a sum much less than his actual value. Three other boars were disposed of. No. 1 in the catalog, Columbia Chief 2d, went to Mr. Floyd Gillette, of Hampton, Iowa, at \$125. Mr. E. W. Kreischer, of Mt. Vernon, Iowa, secured Mastodon Chief 129083 at \$150, while Mr. Ed. Hickey, of Gretna, Neb., got King Mastodon 134125 at \$105. The average on these boars was \$181.25. The average on the entire consignment was \$126.31, thirty-eight head being sold. There was a lively competition for the females throughout the entire sale. Lady Wonder 5th 272648, a five-year-old sow, went at the top figure of \$345 to Mr. Lee Gross, of Nodaway, Mo. Mr. J. Frischkorn, of Ansley, Neb., took Lady Mastodon 1st 306326 at \$225. Mr. Ed. Hickey also got Lady Mastodon 6th 306328 at \$195. Mr. John W. Noll, of Winchester, Kan., got Lady Mastodon 14th for \$147.50 and Mastodon Maid 3d at \$115; Mr. Timm Neuhofel, of Central City, Neb., Lady Mastodon 18th, \$145; Mr. Chas. H. Schram, Newcastle, Neb., Lady Mastodon 20th, \$160, Mastodon Maid 26th, \$140; Mr. Frank Myatt, of Harlan, Iowa, Beauty C, \$102.50, Mastodon Maid 7th, \$92.50, Mastodon Maid 9th, \$70; W. L. Hoff, Harlan, Iowa, Miss Wonder 4th, \$135; Mr. A. H. Krumme, Arapahoe, Neb., Lady Mastodon 9th, \$160; Mr. E. M. Bourne, Madison, S. D., Long Price 2d, \$120; Mr. W. A. Burke, Millgrove, Mo., Long Price 4th, \$175; Mr. John Sullivan, Panama, Iowa, Nelson's Surprise 4th, \$105, Mastodon Maid 48th, \$82.50; Mr. James M. Parsell, Jerseyville, Ill., Nelson's Surprise 6th, \$110; Mr. Herman Schultz, Rushmore, Minn., Nelson's Surprise 5th, \$90, Mastodon Maid 31st, \$60, Mastodon Maid 46th, \$75, Mastodon Beauty 2d, \$67.50, Mastodon Maid 30th, \$52.50; Mr. Nels C. Jensen, Exira, Iowa, Nelson's Surprise 7th, \$80, Lady Ideal 3d, \$60; Lee Gross, Nodaway, Mo., Mastodon Lady 96th, \$195; Mr. E. W. Merriman, Irwin, Iowa, Mastodon Maid 36th, \$90; Mr. John Laubscher, Mediapolis, Iowa, Mastodon Maid 33d, \$127.50, Mastodon Princess 2d, \$87.50; Mr. S. S. Olds, Deer Creek, Okla., Ideal Lady, \$100; Mr. R. O. Davis, Persia, Iowa, Mastodon Maid 42d, \$60; Frank J. Sweeney, No. Buena Vista, Iowa, Mastodon Beauty, \$90; Mr. W. F. Fulton, Waterville, Kan., Mastodon Maid 47th, \$55; Messrs. G. D. and T. L. Wolfe, Mt. Vernon, Iowa, Mastodon Maid 18th, \$160.

Pfanders' Giant Poland China Sale.

Messrs. J. W. Pfander & Sons, of Clarinda, Iowa, held one of the most highly successful Poland China sales of the season on Saturday, February 26th. Thirty-eight head of sows were disposed of at an average of \$73.61 per head. The range of prices was from a top of \$175 down to \$36. While the local attendance was rather light owing perhaps to the counter attractions of a dairy train and a good roads convention, breeders from a number of states were present and made the bidding lively from start to finish. Mr. Leslie McCormick, of Laddonia, Mo., bought No. 1, Anna Prospect 2d, for \$175. Mr. H. Fessenmeyer bought the next highest-priced sow, No. 6 in the catalog, at \$125. Mr. Mark Stuart, of St. Paul, Neb., paid \$115 for No. 8 in the catalog, a September yearling, while Mr. E. H. Chilcote, of Conway, Iowa, paid \$105 for a litter sister. Messrs. B. Whistler & Son, of Litchfield, Neb., captured Model Giantess for \$109. Mr. E. D. Keasy, of Wiota, Iowa, secured No. 5 in the catalog, Blue Ribbon, one of the very best-looking things in the sale, for \$101. Mr. Ed. Hickey, of Gretna, Neb., paid \$107.50 for the March yearling sow, May King. One of the sensations of the sale was the litter of five April 24th gilts. The top of this lot went to Mr. J. I. Dripps, of Mt. Vernon, Iowa, for \$102.50, while the lowest of the lot went for \$51. Other buyers at the sale were G. F. Marshall, Monroe, Iowa; Ray L. Morgan, Sham-hai gh, Iowa; Joe A. Kerr, Ashby, Mo.; C. B. Powers, Aurora, Neb.; W. H. Moore, Genoa, Neb.; C. S. Munhall, Callaway, Neb.; E. H. Simpson, Bedford, Iowa; O. A. Sunderman, Madison, Neb.; H. Schrader, Greenfield, Iowa; J. W. Edwards, Sumner, Neb.; J. G. Long,

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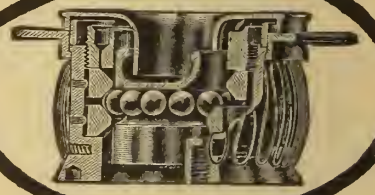
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Avoid the separator that will mean hard work twice a day—above all, avoid the machine that is almost impossible to clean. Empires are the sanitary separators; kept perfectly sweet and clean without effort, because bowl parts are few, simple and smooth.

Look out for bowl parts with cracks, corners, slots and crevices, in which bits of milk or cream will stick, regardless of washing. First grade cream and highest price depend on cleanliness. Choose an Empire and be sure of top prices, also a big saving of work and time twice a day, every day, for years to come.

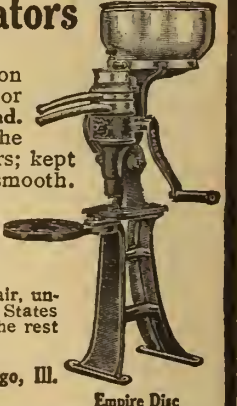
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Holt's Berkshire Sale.

For the first sale Mr. W. R. Holt, of Falls City, Neb., made a fairly successful sale on the 15th of February. A feature which hurt the sale with the breeders was that of a great many of the sows bred, no accurate dates had been kept. The average of \$43.35 was very satisfactory to Mr. Holt. Sales at \$30 or more will show who were the strongest buyers: Ray Shalbe, Falls City, Neb.; Thompson & Benedict, West Point; J. A. Bowman, Falls City; Max Harden, Falls City; H. F. Erdley, Hiawatha, Kan.; N. L. Jarves, Lyons; E. Crook, Falls City; C. Cowan, Oregon, Mo.; H. R. Coffey, Savannah, Mo.; Muirhead & Gordon, Pawnee City; F. A. Scherzinger, Nelson; Jake Scherzinger, Nelson; E. F. Sharts, Warsaw, Mo.; M. E. Frances, Holdrege.

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DATES FOR LIVE STOCK SALES.

Aberdeen Angus Cattle.
 Mar. 10, M. H. Donohoe, Holbrook, Iowa.
 Mar. 11, Wm. Cash, Williamsburg, Iowa.
 Mar. 16, Breeders' sale, M. A. Martin, Mgr., Wall Lake, Iowa.
 Mar. 17, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 7, James Williams, Marcus, Iowa.
 June 8, Stanley Pierce and John Evans, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Palmyra, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 20, C. M. Russell, Carroll, Iowa.

Short-horn Cattle.
 Mar. 15, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Mar. 16, O. O. Smith, Des Moines, Iowa.
 Mar. 29, Earl Moharg, Audubon, Iowa.
 Apr. 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
 Apr. 12, Thomas & Ellison, Rushville, Ind.
 Apr. 28, Henry H. Kuper, Humboldt, Neb.
 May 20, W. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 2, J. G. Biller, Hartington, Neb., at Crofton, Neb.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 21, Jesse Binford & Sons, Liscomb, Iowa.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranzi, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Hereford Cattle.
 Mar. 8-9, Funkhouser, Gabbert and others, R. T. Thornton, Kansas City, Mo., Mgr.
 Mar. 15, Brookmont Farm, Odebolt, Ia.
 Mar. 16, W. C. McGavock, Springfield, Ill., at South Omaha, Neb.
 Mar. 29, E. O. Nervig, Slater, Iowa.
 Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 Apr. 16, James E. Logan, Kansas City, Mo.

Duroc Jersey Swine.

Mar. 9, Lien Bros., Platte, S. D.

Jack and Jennets.

Mar. 15, G. C. Roan, La Plata, Mo.

Percherons.

Mar. 11, P. W. Moir, Mitchell, S. D.
 Mar. 22-23, Combination sale, Sioux City, Iowa, J. B. McMillan, Mgr.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

Fred S. Larkin, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address 2525 Erskine St., Omaha, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Hereford bulls are advertised for sale by Mr. A. F. Hager, of Avoca, Iowa, on page 57.

Some excellent Scotch bulls are advertised for sale by Mr. C. C. Norton, of Corning, Iowa, on page 57.

Some extra choice Bates bulls are offered for sale by Mr. O. M. Healy, of Bedford, Iowa, on page 57.

Duroc Jersey bred sows are advertised for sale by Messrs. White Bros., of Perry, Iowa, on page 58.

Some good Angus bulls are advertised for sale by Mr. Will L. Coleman, of Corning, Iowa, on page 57.

A few Polled Durham bull calves are advertised for sale by Mr. Wm. Barrans, of Lenox, Iowa, on page 56.

A small herd of Holstein-Friesian cattle is offered for sale by Mr. C. A. Gaer, of Wisner, Neb., on page 56.

Percheron and Clydesdale stallions are advertised for sale by Mr. R. O. Miller, of Lucas, Iowa, on page 59.

High-class Duroc Jersey bred sows are advertised for sale by Mr. J. D. McDermott, of Wiota, Iowa, on page 58.

Some extra choice young Hereford bulls are advertised for sale by Messrs. Schain & Keep, of Atlantic, Iowa, on page 57.

Mr. R. J. Harding, of Macedonia, Iowa, has a splendid lot of Duroc Jersey bred sows for sale which he is advertising on page 58.

Mr. John E. Griffith, of Washington, Iowa, breeder of Aberdeen Angus cattle, is offering some splendid young huids for sale. Full particulars will be given in our next issue.

On page 35 of The Homestead will be found the advertisement of the Star Poultry Farm, at Eddyville, Iowa, offering eggs from Single Comb White Leghorns and Single Comb Rhode Island Reds. Their Rhode Island Reds are from high-scoring birds and are good winter layers. Their cockerels are from

the Wyckoff strains and score from 92 to 94 points. They are prepared to give orders prompt attention.

Six splendid young Short-horn bulls are advertised by Messrs. H. Pritchard & Son, of Walnut, Iowa, on page 57.

Some good Holstein-Friesian bulls and females are advertised by Mr. Henry C. Glissman, Sta. B., Omaha, Neb., on page 56. Mention The Homestead when writing for prices.

Mr. A. G. Abney, of North Loupe, Neb., is offering some choice Galloway bulls and heifers of the most famous blood of the breed and choice individuals. Get his prices before buying. See page 56.

It will pay anyone interested in Buff Orpingtons, Light Brahmas or Buff Rocks to read Mr. I. E. Miner's offer on page 35 of this issue. He writes that he has some of the best stock in his line.

Messrs. Jos. Rousselle & Son, of Seward, Neb., are offering some very choice Percheron and Belgian stallions and mares at prices considerably below those usually asked for horses of like quality. Their announcement appears on page 61.

Mr. Z. T. Kinsell, of Mt. Airy, Iowa, has a splendid lot of young Hereford bulls for sale which he is advertising on page 57. These bulls are strictly first class and they can be bought right. Among the number are several that are good enough to head the best of herds.

Mr. Geo. H. White, of Emerson, Iowa, the well-known breeder of Short-horn cattle, has a most excellent lot of Scotch and Scotch-topped bulls for sale and some of these will make good show bulls when grown out. Write or go and see Mr. White and mention The Homestead.

If in need of a good bred Duroc Jersey gilt write Mr. C. C. Cushman, of Chillicothe, Ohio, manager of the Sugar Loaf herd. He has some fine gilts out of a Col. S. dam, bred to Ohio Chief's Banner, that are right and will be priced right. See page 58 and write for description and price.

Duroc Jersey hred sows and gilts are advertised for sale at private treaty by Mr. O. E. Osborn, of Weston, Iowa, on page 58. There are a few Ohio Chief sows among the number and he is making reasonable prices on all of them. Write him about these and send him an order, as they are going fast.

Mr. H. C. Mehring, of Manson, Iowa, breeds O. I. C. White hogs and advertises them on page 57 of this issue. He has for sale some July boars that are of strictly good breeding. They will be sold at reasonable prices. He also has a few Shropshire ewes left. For prices write to the address above given.

Shires, Clydesdales, Belgians and German Coaches are advertised for sale by Messrs. Laben Harrison & Son, of Prescott, Iowa, on page 59. Their last importation was the best that they have ever brought over and they are certainly offering some good ones for sale and at the most reasonable prices. It will pay you to see this firm if you are on the market for a stallion.

Fine stock breeders throughout the country will be interested in the advertisement of Col. C. C. Keil, of Grinnell, Iowa, which appears on page 55. Colonel Keil is an old-time breeder of Duroc Jersey hogs, as well as an auctioneer of many years' experience. He is equally as well posted in other lines of live stock industry, has a wide patronage as an auctioneer and solicits dates. For terms or open dates write to Col. C. C. Keil, Grinnell, Iowa.

Mr. C. G. Good, of Ogden, Iowa, has for sale a number of imported and home-bred Percheron and Belgian mares. These are of excellent quality, of lines of breeding which insure future reproduction of quality and will be sold at very reasonable prices. Mr. Good is a farmer under ordinary farm conditions, so these mares are all broken to work and have done their share of work on his farm. His place is close to the fair grounds at Ogden and may be reached without any loss of time. Any further particulars as to price or descriptions may be had by writing to Mr. C. G. Good, Ogden, Iowa. See page 59.

Messrs. Thomas & Ellison, of Rushville, Ind., announce a sale of Scotch Short-horns to be held at their farm on April 12, 1910. At this time the above gentlemen will sell sixty head of pure Scotch cattle of such families as Victoria, Luster, Mary Ann of Lancaster, Buchan Lassie, Duchess of Gloster, Lovely and Eliza. Every animal sold will be Scotch. This will be one of the few sales held in recent years where there will not be a plain-bred one cataloged. It is a dispersion sale, as Mr. Thomas is at an age where he cannot give the cattle his attention and Mr. Ellison is changing his location. Get on the mailing list for catalog.

The advertisement of Mr. E. M. Cathcart, breeder of Barred Plymouth Rocks, at Charter Oak, Iowa, will be found on page 35. Mr. Cathcart is now offering eggs for sale at the prices named in the advertisement. The birds in his breeding pens are of prize-winning ancestry and possess a high degree of Plymouth Rock perfection. The females are sired by a first-class prize cockerel at the state fair. The cockerel pens are headed by a first-prize winner at the Des Moines Poultry Show in 1908 and birds of equal merit. The pullet pens are of the Blue Belle strain and contain the first-prize hen at the state fair of 1908 and second-prize hen and second-prize pullet at the Des Moines Poultry Show, 1908. Mr. Cathcart is responsible in every particular and satisfactory treatment of patrons

is guaranteed. Forward orders to the address named in the advertisement.

Mr. Chester Bloom, of Bridgewater, Iowa, is offering some good Chester White sows and a Hereford bull for sale on page 54 of this issue. These sows will weigh from 300 to 400 pounds, according to their age, and are in pig to a splendid, large, smooth boar. The three-year-old Hereford bull which is offered for sale is a good individual and will suit discriminating buyers at the price. Kindly mention The Homestead when writing.

Mr. Franz Bollman, of Wall Lake, Iowa, whose advertisement of Collie dogs appears on page 34, writes us that he has for sale sable and black and white pups over two months old. These are sired by Handsome Towser 136089, he a grandson of Wellesbourne Conqueror that was at one time one of the best dogs in the United States. Mr. Bollman says that these dogs are healthy, lively, well marked and bred from well-trained parents. At the prices named in his advertisement they cannot remain unsold very long and buyers will, therefore, do well to at once forward their orders to Mr. Franz Bollman, Wall Lake, Iowa.

Mr. W. R. Gates, breeder of Holstein-Friesian cattle, at Ft. Atkinson, Wis., makes a change in his advertisement on page 56 of this issue. In his letter ordering this change he writes: "I have ten very choice bulls now ready for service and part of them are from dams with records of twelve to twenty-six pounds of butter in seven days and a record of 106 pounds of milk in one day. I have, in addition, a number of very fine cows and heifers that I will dispose of at reasonable prices." As will be noted from the facts given the herd is one of high merit and in which buyers will find something to suit their requirements. For additional particulars or prices write to Mr. W. R. Gates, Ft. Atkinson, Wis.

Mr. Sterling Martin, of Melrose, Iowa, breeder of Mammoth Bronze turkeys and White Plymouth Rock chickens, places a new advertisement on page 35. The prices quoted on the high-scoring Mammoth Bronze turkey toms will be recognized as very low when quality is considered. Mr. Martin writes concerning this stock as follows: "I am well satisfied with the results of my advertising in The Homestead. I have no more Mammoth Bronze turkey pullets left, but have about eighteen well-marked, large-boned toms scoring from 93 to 95% and weighing up to twenty-seven pounds. These birds have excellent bronzing, especially on breast and front part of back. I have still a few White Plymouth Rock cockerels."

Homestead readers intending to purchase Barred Rock eggs for hatching should look up the advertisement of Mr. S. V. Latham, of Montezuma, Iowa, on page 35 and write him for catalog. Mr. Latham writes that the birds making up his yards are of the very best of blood and that there are many prize winners among them, the results of fifteen years' breeding. The following is a sample of the many letters which he is constantly receiving: "Please send to my address your poultry catalog and advise me as to the price of your Barred Plymouth Rock eggs. I purchased eggs of you five years ago and have found none better since. Let me hear from you by return mail.—Mrs. W. D. Ashcraft." The post-office address will be furnished any interested party upon request.

A recent note from Mr. E. L. Mear, a breeder of Chester White hogs, at Lamar, Mo., whose advertisement appears on page 58, says: "Please change my advertisement and state that I am all sold out of brood sows of any age. I just sold two to an Iowa breeder from my own reserve for \$175. I have been doing this until I will have nothing left for myself if I do not stop all inquiries of this nature. I have one extra good boar of last March farrow that I will sell at \$60. This is a fine pig in every way and ought to go into some good herd. His breeding cannot be beaten and as an individual he is No. 1. I have also five boars of July farrow that are first class which I will sell at \$30 each. I have never known such a great demand for bred sows no matter what price may be asked for them." Our readers who may be interested in the boars offered will do well to write to Mr. E. L. Mear, R. F. D. 1, Lamar, Mo.

Mr. L. F. Atwater, of Bangor, Wis., breeder of Duroc Jersey hogs, has recently been making some important additions to his herd. At the Balmat sale, at Mason City, Iowa, on the 2d of February, he bought a valuable sow by Model Improver, a hog whose pedigree traces to some of the most prominent western state fair winners. At the Purdy sale, also at Mason City, he bought a very fine March gilt by Duroc Wonder, bred to Chief Select. This gilt is one of the most fashionable and attractively-bred Duroc Jerseys. Her sire traces directly to a line of Crimson Wonder blood that has produced sweepstakes winners at the Iowa and Nebraska State Fairs repeatedly. Her dam was a daughter of Advancer, a sweepstakes winner at the Iowa State Fair, full brother to sweepstakes winners, and he a son of old Advance, a hog that produced probably more prize winners at the Iowa State Fair than any other Duroc Jersey sire. Chief Select, the hog to which she has been bred, belongs to the Col. family and without doubt his pedigree represents a greater number of sweepstakes winners at state fairs than does that of any other sire. Mr. Atwater is to be congratulated on the character of the sows he has been buying. His herd already, however, is a very strong one, containing sows by Red Wonder, Sen-

sation and other hogs of note. We shall expect to hear from him prominently another year.

Mr. Henry Strampe, of Paullina, Iowa, was one of the best buyers of Hereford cattle at the recent dispersion of the W. W. Wheeler herd at Harian, Iowa. He bought seven of the best cows in the sale and secured such a foundation as probably no breeder in Iowa has started with. This has reference to the lines of blood involved. There is a stronger infusion of the strains represented by those grand old bulls, The Grove 3d, Lord Wilton and Anxiety 4th, than is carried by any like number of cows in anybody's herd. Mr. Strampe has shown remarkable judgment in the selection of these cows. A number of them are, of course, somewhat advanced in years, but they are certainly a splendid investment at the price paid for them. Mr. Strampe may be heard from as a prominent breeder later.

Pedro's Golden Fern, the herd bull of Mr. D. W. Howie, at Elm Grove, Wis., is a son of Golden Fern's Lad. This bull was one of the most celebrated ever produced upon the Island of Guernsey. He has more highly-commended animals (for the numbers registered) in the Jersey Herd Book and more champion and first-prize winners to his credit than any other bull. His son, Flying Fox, sold for \$7,500. His son, Eminent 2d, sold for \$10,000. His eight-months-old bull calf, The Sensational Fern, sold for \$10,200 and in the same sale his grandson, Stockwell, sold for \$11,500. His daughter, Golden Fern's Sensation, won first prize at the National Dairy Show, Chicago, 1907, and won second prize at the great St. Louis Show, 1904, and was sold at auction for \$2,250. His daughter, Golden Sultane, won third prize at the great St. Louis Show, September, 1904, and sold in the ring for \$2,350. Ten of his get have been sold at an average of \$4,560 each. His five tested daughters averaged eighteen pounds five and one-half ounces each. His son, Eminent 2d, has ten tested daughters averaging twenty pounds four ounces each, and many more to come. His son, Flying Fox, has five tested daughters averaging seventeen pounds four ounces each. His son, Carnation's Fern Lad, has six tested daughters averaging sixteen pounds one and one-half ounces each. Golden Fern's Lad's best daughter in the public butter test is Freedom, two pounds ten ounces butter in twenty-four hours at Tring Show Ring, England, being 140 days in milk. Gold Mine, another daughter, won gold medal at Tunbridge Wells, England, two pounds seven ounces butter in twenty-four hours, being in milk 150 days. For a number of years the blood of Golden Fern's Lad has dominated the show and sale rings. The climax was reached in 1907 when nearly every winning of any consequence at all the principal fairs of America, England and the island was made by a son or a daughter, or a near descendant of Golden Fern's Lad. The record price at auction (\$11,500) was made for a grandson of Golden Fern's Lad and an eight-months-old bull calf by him brought \$10,200. At the National Dairy Show, Chicago, the grand champion and junior champion females were daughters of Golden Fern's Lad. The grand champion bull was a grandson and out of a granddaughter of Golden Fern's Lad. The four prizes for bull and get (the most important of all prizes) all went to Golden Fern's Lad and his close descendants.

Wisconsin Ayrshire Men Choose Tschudy.

Mr. Fred Tschudy, of Monroe, Wis., was chosen as the president of the recently-formed Wisconsin Ayrshire Breeders' Association. This statement is significant—it tells how this breeder is ranked by his fellows. To learn more of Mr. Tschudy's Ayrshires see page 56.

Hart Bros.' Stallions.

If you are wanting Choice Percheron, Shire or Belgian stallions or mares don't overlook Messrs. Hart Bros., of Osceola, Iowa. They have a barn full of them and they are good and it will certainly pay you to make them a visit and inspect their horses if you are on the market for any of the above breeds. See advertisement on page 59.

Blue Bell Jerseys.

The advertisement of Mr. Fred Stubley, of Black Earth, Wis., appearing on page 56 of this issue, will interest every reader who is looking for well-bred Jerseys. The young huids which the Valley Farm manager is offering for sale were sired by Blue Bell's Eminent, one of the best bulls which has ever left the "Island" to come to America.

King Sappho King.

To a Jersey breeder the name of King Sappho King is almost synonymous with excellence of every sort. It means ruggedness, great production, sufficient refinement—in short about all we would care to combine in a Jersey bull. He has proven to be a great sire and his daughters are beautifully measuring up to all expectations. See advertisement of J. Q. Emery & Son, Edgerton, Wis., on page 56.

How to Buy Feeding Cattle.

It is the general impression of men who are posted in the cattle business that although markets now look high they are certain to go higher. This leads to the inference that men who buy good steers now for feeding out for May and June markets will be making a good investment. Kansas City is the logical market for feeders and the Kansas City Live Stock Commission Company, at 277 Live Stock Exchange Building, Kansas City, Mo., will be glad to give any of our readers reasons why

they can supply feeders at prices that promise a future profit. Read the advertisement on page 57 and write to the address named.

Cluck's Ideal Brood Coop.

A brood coop which will not rust, does not become damp, is louse, mite, rat, cat and mink proof at night and can be folded up and put away for winter will certainly appeal to the poultry raiser. Cluck's Ideal brood coop will do all this and more. Look up the advertisement of the Stover Gas Machine Manufacturing Company, Freeport, Ill., on page 34 and write them for descriptive circular.

Imported Percheron Mares and Stallions.

Buyers of Percheron mares should see the January importation made by Mr. S. J. Miller, of Kirksville, Mo. Several of these mares are bred to the celebrated Carnot, champion stallion at the International show last fall. Mr. Miller also bought a great string of young stallions that are the sort that please the stallion buyers of today. See page 61 for Mr. Miller's advertisement and address.

Many Pontfacs in the Herd.

In building up his large and excellent herd of Holstein-Friesians, Mr. F. W. Allis, of Madison, Wis., has purchased only the best cows and sires from the very best producing families. These he has carefully mated and as a result their excellencies have been intensified and perpetuated. The Monona Farm herd now contains animals which are known in every Holstein center in the United States. Several of the cows are qualifying with excellent records in the Wisconsin cow contest. See advertisement on page 56.

Fifty Large-Type Brood Sows.

On page 55 of this week's issue will be found the advertisement of Mr. F. W. McIntyre, of Red Oak, Iowa, who is offering fifty head of big-type Poland China sows for sale at private treaty. These sows are strictly good in every respect and Mr. McIntyre is pricing them where they ought to move readily. If our readers want a few good sows and want them at reasonable prices then write Mr. McIntyre at once and send him your order. Kindly mention The Homestead when sending him your order.

Duroc Jersey Bred Gilts.

In an advertisement on page 58, Mr. C. E. Longnecker, of Maxwell, Iowa, announces that he has for sale some extra good spring gilts, bred for March and April farrow. Mr. Longnecker has in his herd the more prominent lines of breeding as represented by leading show animals, and he has taken pains to cull out closely those of a less valuable character. The Homestead is glad to recommend him as a safe man from whom to buy. For descriptions and prices of these gilts write to Mr. C. E. Longnecker, Maxwell, Iowa.

Barmore's Holsteins Are Winners.

Maple Lawn Holsteins have seldom been seen at the fairs and expositions, but whenever the owner, Mr. T. J. Barmore, of Monroe, Wis., has exhibited a herd he has never failed to win some of the very choicest ribbons even in the keenest competition. The reason is that he has been breeding the kind the average judge likes to see, namely, the large and roomy sort. Illustrations of a number of Mr. Barmore's cows have appeared in the columns of The Homestead during the past few months and many of our readers have been favorably impressed with the Barmore type. See page 56 and remember that Mr. Barmore guarantees his stock.

Holstein Aristocracy.

If so democratic a breed as the Holstein-Friesian maintained an aristocracy two of the "first families" would be the Homestead and the Ormsby. Both have won their laurels by dairy accomplishments and when the two families have been merged the resulting offspring have generally combined much of the excellencies of both strains. Reka Ormsby Duke, the sire at the head of the herd of Mr. Albert Babler, Jr., of Monticello, Wis., is a grandson of Homestead Jr. De Kol and Duchess Ormsby and consequently is a combination of two of the greatest families of the breed. Mr. Babler has a number of young sons of this splendid sire for sale and is quoting attractive prices. We often hear it said and we have no reason to doubt the statement that the bull is half of the herd. Why not buy the best and breed better? A good bull is none too good.

Lien Bros.' Last Call.

Messrs. Lien Bros., of Platte, S. D., will sell Duroc Jersey hogs at public auction on Wednesday, March 9th, as advertised on page 58 of this paper. They have selected for this sale forty choice gilts of last spring's crop of seventy head. They are daughters of King Jester Dakota Chief and Choice Bredwell. A portion of these gilts have been bred to our recently-purchased hog, The King, he by King Paul, said to be one of the best young boars that has been introduced into South Dakota this year. He has all the qualifications and breeding that go to make an outstanding Duroc Jersey. Others of these sows have been bred to Choice Bredwell, King of Cols. and Masterpiece Climax. Messrs. Lien Bros. are among the best breeders of Duroc Jerseys in South Dakota. They have spared neither time nor money to secure the best blood and they have culled closely so that their herd represents the best of character. They have size, quality and breeding. The gilts in this sale are litter sisters of the boars which they sold last fall which were highly appreciated by buyers. Those who are unable to attend

this sale may forward bids to Mr. E. T. Parker, representative of The Homestead, who will be in attendance. Catalogs are now ready and may be procured by writing to Messrs. Lien Bros., Platte, S. D.

Carrying Coals to Newcastle.

For more than a generation horsemen of Kentucky have boasted the prestige of their splendid horse products. It is, therefore, like "carrying coals to Newcastle" that Kentuckians have actually gone to the International Stock Food Farm, at Minneapolis, Minn., in their world-wide search for trotting-bred horses. Only a few days since two prominent breeders from Kentucky visited Minneapolis and took possession of American Patch, a promising son of Dan Patch, the world's champion harness horse. One of these gentlemen, Mr. J. R. Knuckolls, of Kevill, Ky., won the colt by being successful in the contest recently put on for the dealers of International Stock Food Company, of Minneapolis. In this he had to compete with thousands of men and women all over the United States and in every country of the world. Both gentlemen were highly enthusiastic over their visit to the International Stock Food Farm and expressed the belief that they had never before seen so many beautiful horses as were in the International stables. One of them is quoted as having said: "We may be the first

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while to purchase breeding stock from men whose reputations are without blemish. We cheerfully advise any of our readers who are in the market for Clydesdales to visit or communicate with Messrs. McWay. They will serve you right. See page 61.

Rhea Bros.' Home-Bred Percherons.

If you want a home-bred acclimated Percheron stallion don't overlook the advertisement of Messrs. Rhea Bros., of

NEXT WEEK'S SALE PROGRAM

Tuesday, March 8	{ Herefords, Combination Sale, R. T. Thornton, Mgr., Kansas City, Mo.
Wednesday, March 9	{ Duroc Jerseys, Lien Bros., Platte, S. D. Herefords, Combination Sale, R. T. Thornton, Mgr., Kansas City, Mo.
Thursday, March 10	{ Aberdeen Angus, M. H. Donohoe, Holbrook, Iowa.
Friday, March 11	{ Aberdeen Angus, Wm. Cash, Williamsburg, Iowa. Percherons, P. W. Moir, Mitchell, S. D.

men to come from Kentucky to Minnesota for harness horses, but when our people know what they have up here we will not be the last." One of the gentlemen picked out two Creseus colts which he intends to take to his Kentucky farm. See page 64.

An Iowa Auctioneer.

We direct the attention of breeders of fine stock, who make public sales, to the advertisement of Col. W. K. Henss, of Wayland, Iowa, which appears on page 55. Colonel Henss is not only an auctioneer of energetic action and rare judgment, but he is also a breeder of cattle and hogs and his experience with pedigrees covers so long a period and wide range that he is fully posted on all points of interest with reference to breeds. He compiles catalogs and sells any breed of cattle, hogs or horses. He has given eminent satisfaction at a great many sales, makes quite reasonable prices and solicits dates anywhere or any time. For any further particulars write to Col. W. K. Henss, Wayland, Iowa.

Lake Mills the Center of the Black and White Belt.

Messrs. William Everson & Sons, of Lake Mills, Wis., are in position to supply parties with car-load lots of high-grade Holsteins. Write them at any season of the year and depend upon it they either will have what you want or can get it upon short notice. Lake Mills is the original Holstein center of the West and several large herds are located conveniently near the town. The Milwaukee-Madison branch of the Chicago & Northwestern railway passes through Lake Mills and the Everson dairy barns are just across the street from the depot. There is not a herd in Wisconsin which is more easily accessible. The transportation facilities to and from Lake Mills are all that could be desired, there being a number of trains each way every day. For further particulars write Messrs. Garth or Frank Everson, Lake Mills, Wis.

They Specialize in Clydesdales.

When starting out to buy a Clydesdale mare or stallion it is well to remember that there is a firm in the middle West who make a specialty of raising and importing Clydesdales and that the two members of this partnership are known wherever the breed is known for their absolute fairness and square dealing. Messrs. McWay Bros., of Janesville, Wis., are the American Clydesdale specialists. They do not raise nor import representatives of any other breed. They firmly believe in the merits of the Scotch drafter and for years have been foremost among the American supporters of the breed. In fact none have done or are doing more to increase the popularity of the Clydesdale in this country than Messrs. McWay. Their horses have repeatedly appeared at the leading fairs of the middle West and have generally captured the bulk of the best premiums. Mares and stallions have been purchased from the Rock Prairie studs and have, as a rule, proven excellent dams and sires. Buyers have always found the proprietors of Arngibbon and Maple Lawn ready and willing to back up their horses. It is certainly worth

Arlington, Neb., on page 61. They have over 100 on hand and you will be astonished at the price at which you can buy a good horse from these gentlemen. No middlemen, no commissions, and the handling of their horses by themselves on their own farms is the secret. By all means see these men and you will be able to buy a stallion at a price that will surprise you. Kindly mention this paper when writing them.

Guernseys For Sale.

Mr. William M. Jones, proprietor of the Sunny Valley Guernsey herd, at Waukesha, Wis., has four bulls and one cow for sale at this time. Three of the bulls were sired by Lord Waukesha, which has been a consistent winner at leading state fairs and dairy shows since 1906. He has shown unusual prepotency in transmitting excellent qualities to his progeny. The cow, Odette, which is also listed for sale by Mr. Jones, was dropped September 16, 1898, and was sired by Melrose F. She has been bred to Lord Waukesha and is therefore doubly valuable. See page 56.

Humbert's Percherons.

The farmer or the company that is thinking of buying a Percheron stallion should not overlook Messrs. E. H. Humbert & Son, of Corning, Iowa, and should inspect their horses before buying, as they have some of the very best stallions for sale that are to be seen in the West. Their last importation was considered one of the best that crossed the Atlantic last fall, and judging from the class of horses that this firm have previously had in their stables we can assure our readers that it will pay them to go and see what they have before buying. They have some of the best two and three-year-olds that we know of and this firm have always priced their horses where the farmer could buy them. Write this firm at once and then go and see their horses and take our word for it you will be sure to buy. Kindly mention this paper when writing them. See page 61.

Shoemaker's Poultry Book.

Mr. C. C. Shoemaker, of Freeport, Ill., whose advertisement appears on page 32 of this paper, publishes what is probably the most complete poultry almanac and poultry book that has come to our notice. It includes more than 200 pages of good, solid information on every phase of the poultry-raising subject. Mr. Shoemaker is a competent writer on all matters in connection with poultry raising. Something like twenty-five years ago he started out in a small way on his own farm. Having been especially adapted to the business of raising chickens, and having in addition unusual business capacity it was not many years until his business outgrew the facilities of his home and it was necessary for him to build offices, buildings and otherwise increase the facilities to take care of the immense trade that came to him. The almanac is replete with handsome colored engravings showing ideal specimens of Barred Plymouth Rocks, Buff Plymouth Rocks, Silver Laced Wyandottes, Single Comb Brown Leghorns, and, in fact, all ordinary breeds of poultry in their natural colors. These pictures alone, as a mat-



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ter of true information, are well worth the price of the almanac which is fifteen cents. Aside from these, however, there are pages and pages devoted to the care, breeding and general treatment of poultry. The book should be in the hands of every farmer. Send fifteen cents to Mr. C. C. Shoemaker, Box 679, Freeport, Ill.

A Shetland Pony Auction.

Messrs. Clarke Bros., of Auburn, Neb., announce on page 59 that on March 16th they will make a public sale of imported Shetland ponies. This sale will include forty head of registered animals of that breed. One of the attractions will be the five-year-old stallion, King of Transy 9714. This is a heavy-bodied, good-boned pony with heavy mane and tail. He is a good actor. He was in service in one of the best herds of Scotland for two years. He is kind and gentle and it would be hard to find his equal in America. Another attraction will be a beautiful three-year-old gelding, Pageant, a very handsome pony about forty-one inches high, kind and gentle and right in every way. The sale will also include numerous mares safe in foal. These gentlemen do not expect long prices at this sale, as it is the first sale of true Shetlands in the West. Catalogs are now ready and may be had by writing to Messrs. Clarke Bros., Auburn, Neb.

The Retirement of a Master.

The ranks of live stock breeders met with a most decided loss when Mr. W. W. Wheeler, of Harlan, Iowa, disposed of his herds of Hereford cattle and Poland China hogs and decided to devote his business energies to other lines. While Mr. Wheeler made his mark as a breeder by making advancement in his favorite breeds that made the rest of the breeding world sit up and take notice, he was none the less a broad-minded, far-seeing, liberal business man. His business transactions were always of a sort which satisfied his patrons and gave them added confidence in him. Mr. Wheeler's table-backed Herefords became known over the entire United States, and his farm became a source from which the seeker after high-class animals might always secure that for which he sought. The pastures on which these cattle grazed were a revelation in their richness and profusion that rivaled even the boasted blue grass lands of Kentucky. When the Wheeler Herefords were closed out the occasion brought an interest which had not been displayed for years and a range of prices obtained that were so greatly in advance of those of other sales as to make the sale an epoch in Hereford history. Last week when the Poland China herd was sent under the hammer of the auctioneer, a like stir was in the air. All the swine-breeding belt was represented, and the stamp of approval was set upon Wheeler's Mastodons by an average of \$126 per head, a figure so far in advance of the prices of the seasons sales as to have a world-wide influence. Briefly stated, we may say that Mr. Wheeler's operations in

live stock have been a wonderful advertisement for Harlan and the county in which it is located. It may be said fairly that they have been the means of increasing the valuation of the farm lands of the county as much as \$10 per acre, an equal amount per head on the Herefords of the county, and a decided factor in the added valuation and popularity of the Poland China hog of the entire West. The Homestead joins with its readers in a most sincere regret that Mr. Wheeler sees fit to retire from the active work of forwarding agricultural and live-stock interests. He has established a higher plane in the conduct of the live-stock business, and, though he will be greatly missed, he will have taught many important lessons to those who remain. We fling our oldest shoe at his retreating form.

The Woodlawn Farm Company.

The Woodlawn Farm Company, of Sterling, Ill., breed Duroc Jersey hogs of the choicest strains. Their herd carries prominently the blood of Orion, Crimson Wonder, Tip Top Notcher and others which have made the breed famous. At the present time, as will be noted by the advertisement on page 58, they have a number of young gilts weighing from 160 to 180 pounds, and bred for April and May farrow, which they will sell crated and delivered on board cars at \$22 each. They will sell one or a dozen at this price. As the figures are extremely low buyers will do well to forward the \$22 without delay to the Woodlawn Farm Company, Sterling, Ill.

J. E. Rees' Durocs.

A Homestead representative recently called on Mr. J. E. Rees, of Grand Ridge, Ill., and found him with a nice lot of bred gilts to offer the public at private treaty. Mr. Rees has been a buyer of only the good sorts and has always paid good prices for his herd material. The boars in service in this herd are J. E.'s Chief by I. J.'s Chief by Winchester Chief. I. J.'s Chief was first in class at the Indiana State Fair, 1905. Another good boar in this herd is Investor by S. & M.'s Proud Chief by Ohio Chief out of a Kant Be dam. The latest addition is Ridge Wonder by the great Prince Wonder, out of Helen Blazes III., the \$1,200 sow in the Pancake herd. The sows in the herd are sired by King of Cols., J. E.'s Chief, Kant Top Notch, James Butler and tracing to Top Notcher Again, the World's Fair winner. The gilts Mr. Rees is offering are sired by J. E.'s Chief and are a good bunch. They have bone, quality and size, weighing from 250 to 300 pounds. They are bred for March and April farrow to the two great boars, Investor and Ridge Wonder. Both these boars will be shown next fall and a litter of pigs by either of them will be worth owning. Mr. Rees has a good herd of hogs and is constantly aiming to get them better. If any of our readers need a bred sow we would advise you to write Mr. Rees at once. When writing kindly mention this paper. See advertisement on page 55.

Smith's Annual Short-horn Sale.

Mr. O. O. Smith, of Des Moines, Iowa, announces on page 54 that he will hold his fourth annual public sale of Short-horn cattle on Wednesday, March 16th. Forty-eight head have been cataloged for this sale, forty females and eight bulls. The female consignment includes a lot of excellent working cows which, while a little thin in flesh can explain that thinness by the brigade of lusty, glossy-coated calves that go with them into the ring. There will be a lot of extraordinarily good Scotch breeding in this bunch. For instance, there are Queen of Beauties, Missies, Lavenders, Nerissas, Emmas, Princess of Dalmenys, May Ferrys, Marr Bessies, Duchess of Glosters and Spleneworts. These cows are daughters of such sires as that grand old Duke of Oakland 2d, Royal Prince of Maine Valley, Strawberry Lad, Bessie's Gauntlet, Count Commodore, Gloster Marshall, College Farewell, King Gloster, Highland Chief and Imp. Prince Oderic. All except six of these females will have calf at foot or will have been bred to excellent Scotch bulls which will later be referred to in these columns. The American-bred females are Young Marys, Miss Hudsons, Mazurkas, Daffodils, Dulcibellas, Fashions, Belinas, Fisher Roans and the like. These latter mostly carry four or more good Scotch top crosses. Among them will be found daughters of such sires as Crown Prince, Gloster Marshall, Imp. Lord Mount Stephen, Fitz Eustace, etc. The bull consignment, notwithstanding the fact that only eight head are to be sold, is one of unusual merit. Lot 1, Star Goods, just two years old, belongs to the Ury family and is a double grandson of that grand old world's champion, Imp. Choice Goods. His second dam was a daughter of Imp. Evening Star and the third dam of Morning Star. It will, therefore, be seen that his blood lines are not open to any criticisms. They represent Campbell and Cruickshank breeding back to their very beginning. Star Goods is a solid red, with excellent lines, of good proportions, symmetry and style. He should certainly be looked after by those who need a really good bull. A younger bull, but one of highly attractive character, is Red Marshall, Lot 9 in the catalog. He is a very smooth, sappy, squarely-built fellow with a prospect of wonderful development. His sire was the Harding-bred bull, Gloster Marshall, he a son of that noted grand champion, Whitehall Marshall. His dam was Imp. Bessie 4th, and she a direct descendant of seven generations of Marr-bred Bessies. A representative of The Homestead who inspected these cattle was particularly attracted to this young bull. Certainly his pedigree is

without blemish and equally certain he is a later prospect. All the bulls, however, are strictly good. Additional details will be given in later issues of The Homestead. Catalogs are now ready and may be had upon application to Mr. O. O. Smith, Urbandale, Des Moines, Iowa.

Cattle Owners, Attention.

For several years the first issue in March of this paper has carried the first advertisement of the annual advertising campaign in the interest of cattle raisers by Parke, Davis & Co., the celebrated manufacturing chemists, of Detroit, Mich. Their preparation known as Blacklegoids is generally recognized as the simplest, safest and surest vaccination for the prevention of blackleg in cattle and is very popular among cattle men of the West. Also in this issue will be noted the first advertisement of the year for Kreso Dip, manufactured by this company and sold extensively throughout the entire cattle-raising districts of the United States, as well as other countries. These advertisements will be found on pages 24 and 53 of this issue.

White's Short-horn Herd.

Messrs. White Bros., at Centerville, Iowa, have one of the most extensive herds of Short-horn cattle in that part of the state. They have been breeding for a number of years and having a large area of good pasture land they have permitted the herd to grow in numbers without making any special effort to dispose of surplus. Now, however, they find that the numbers are getting up pretty close to the limit of the accommodations of the farm and for that reason they will sell both bulls and females. They invite correspondence or inspection of these cattle. The blood lines which the cattle carry are recognized as of the highest value. On this point, however, information may be received by writing Messrs. White Bros., Centerville, Iowa. See their advertisement on page 57.

A Draft From Dr. Logan's Sunset Herefords.

Dr. Jas. E. Logan, of Kansas City, Mo., will, on April 16th, at Kansas City, Mo., make a sale of Hereford cattle in which the get of Mr. Logan's great Beau Brummel herd bull will play an important part, as the thirty young females listed are either by him or are bred to him. The thirty or more bulls are mostly by him and from these some great herd bull propositions can be selected. There has never been a son or a daughter of this bull fitted for show that did not get inside the money at the leading shows. Four of Dr. Logan's show herd are listed and from the offering buyers can pick many that should be carried on for the coming shows. Every animal listed is young, the females are all settled in calf and just ready to enter a career of usefulness. Further particulars will appear in due time, but for catalogs and advance information address Mr. Logan and kindly mention this paper.


Maplelawn Percheron Sale.

For the last time we call the attention of our readers to the splendid offering of Percheron stallions and mares of Mr. P. W. Moir which will be offered at public auction at Mitchell, S. D., on March 11th, as advertised on page 61 of this paper. About thirty-five of these will be mares from two to six years old, and a very large majority of them will have been bred to the interstate champion, Toreador, or one of the imported horses. In the lot there will be several evenly-matched teams of blacks and grays that have been broken to work together and that will prove especially attractive to those who are looking for high-class mares with the double purpose of work and raising colts. Twenty-five young stallions have been cataloged, from one to two years old, that are extra large and of good quality, mostly black in color. Mr. Moir says that although this is his third sale of Percheron horses at Mitchell, it will far surpass the other two in quality and size. The stallions are broken to halter and the mares are broken to harness. These horses will be at Mitchell for several days prior to the sale and prospective buyers may make personal inspection of them. Catalogs may be secured by writing to Mr. P. W. Moir, Orange City, Iowa.

Some Remarkable Shires.

Of course everybody knows about Trumans' Pioneer Stud Farm, at Bushnell, Ill. A new advertisement of this institution will be found on page 63. A recent letter from the manager is quoted as follows: "One of the most important transactions from a draft horse standpoint that has taken place this season occurred yesterday when we sold to Messrs. W. A. Wiegand & Sons, of Biggsville, Ill., the imported Shire stallion, Carlton Greystone. The deal is important from the fact that Messrs. Wiegand are the owners of the grand champion, champion and reserve champion Shire mares at the last International Exposition. It will be remembered that they purchased these mares at our December sale. Carlton Greystone is one of the greatest draft colts we have ever imported. He has a fine head and neck, very strong back and loins, oblique shoulders, with good depth of rib, is wide at both ends and stands on the best of feet with thirteen and one-half inches of bone below the hock. His sire was purchased at a long price by the Iowa State College of Agriculture. His grandsire was twice a champion horse of England." It goes without saying that a horse possessing all these merits could only be secured through the payment of a very large price. Messrs. Truman have still on their farm a great many horses of high excellence, not only Shires, but Per-

FOR ALL KINDS OF LIVE STOCK
STANDARDIZED
OFFICIAL FOR SHEEP
1-72



KRESO DIP No. 1
KILLS LICE MITES TICKS KILLS

**ERADICATES MANGE ON ALL ANIMALS.
HEALS LEG AND LIP ULCERATION.
KILLS DISEASE GERMS.**

FOR SALE BY DRUGGISTS EVERYWHERE. SEND FOR FREE DESCRIPTIVE BOOKLETS.

PARKE, DAVIS & CO.
Department of Animal Industry, DETROIT, MICH., U. S. A.

cherons and Belgians and others. These, however, are fully described in a new illustrated catalog for which address Trumans' Pioneer Stud Farm, Bushnell, Ill.

Crouch's New Announcement.

The new advertisement of the La Fayette Stock Farm will be found on page 63. It announces that Messrs. J. Crouch & Son have in their barns a grand lot of big-boned draft horses of the Percheron, Belgian and Shire breeds, as well as German Coachers and Hackneys. With reference to these horses Messrs. Crouch write saying: "Our importation of fifty stallions and mares which arrived some weeks ago have done well. They are certainly a splendid lot of high-class animals combining plenty of bone with weight and quality. We offer the entire lot at very reasonable prices and feel sure that anyone desiring a horse of superior quality at the right price and under a good guarantee and terms may be accommodated at our barns." Messrs. Crouch & Son are old-time and prominent importers and breeders and solicit correspondence concerning their stock. In particular the terms and guarantees are attractive. For full information concerning them write to Messrs. J. Crouch & Son, La Fayette, Ind.

Roan's Great Jack Sale.

The sale of twenty Mammoth jacks and twenty jennets from Mr. G. C. Roan's Cloverleaf Jack Farm, of La Plata, Mo., will be held on the fair grounds, inside city limits of La Plata, Mo., on Tuesday, March 15th. Mr. Roan is not a new man in the jack breeding business, as he started in as a boy assisting his father in the management of the farm. Later when he had assumed full management and the ownership of the farm he purchased the great breeding jack, Mammoth J. C., paying \$1,200, and at a time when jacks were selling very cheap. This jack has developed into a great, big, sixteen-hand jack that is making a record as a breeder. Fifteen hundred dollars was recently refused for one of his colts, many have sold at prices ranging from \$800 to \$1,000 and in this sale are several of his colts that should be appreciated. The jennets in the sale are bred to Mammoth J. C. which adds greatly to their value. The blood of old Starlight, Mammoth and old Monarch is found throughout the offering. The jacks are all well broken, are jacks that Mr. Roan knows are good mule jacks and will do good service wherever they go. Mr. Roan wants to send you a catalog and will if you will send him your name and address. See page 59 for his advertisement and when writing him kindly mention this paper.

Herefords in the Funkhouser, Gabbert and Others Sale.

In the sale of Herefords to be held at Kansas City on March 8th and 9th by Messrs. Funkhouser, Gabbert and others, are ninety bulls and thirty females that the contributors to this sale feel are so good a lot that breeders will find this a rare opportunity to select herd bulls and choice females to add to their herds. Last week mention was made of several consignments, and we now desire to call attention to others. The Egger Hereford Cattle Company sell four bulls and four cows. Two of the cows were sired by Imp. Pluto, two by Salisbury, he by Imp. Salisbury. These cows have scale and quality. Two sons of Onward 33d and a son of Prime Lad 2d are bulls Mr. Egger says are in fine condition and have lots of quality. Mr. C. N. Moore, of Lee's Summit, Mo., sends his herd bull, Beau Gallant 152152, one of the best sons of Beau Brummel, and five females all strongly bred along Anxiety lines. Beau Gallant is sold as Mr. Moore's young cows are all by him. Mr. T. W. Carmichael sends four bulls and four females. Columbus Graft, Lot 92 of the catalog, is a four-year-old that has proven an excellent breeding bull. The other young bulls are strong in Anxiety breeding, two being grandsons of Beau Brummel. Three of the cows are by Erling's Lad, two have calves at foot by Paragon 4th by Beau Paragon. Mr. J. W. Lenox sends nine bulls from ten to twenty months old and two two-year-old heifers. Simoon, one of the good sons of Beau Brummel, and Dandy Andrew, an intensely-bred Anxiety-bred bull, are the principal sires represented in the Lenox offering. These breeders each year send such cattle as they are satisfied will please

those wanting good Herefords and they ask that all who are interested come to the sale and see the cattle. Send to Mr. R. T. Thornton, 1309 E. 15th St., Kansas City, Mo., for catalog.

Holstein Cows and Heifers.

Holstein breeders are enjoying a splendid demand for their surplus and present prospects seem to indicate only a brilliant future for the breed. The facts are that the "black and whites" are making history these days. For two successive months Holstein cows have lead in the Wisconsin dairy cow competition. During January the heifer, Daisy Queen Netherland 2d Piebe, produced 1,591.1 pounds of milk, testing 4.54 per cent of fat, and was given a credit of 85,238 pounds of fat for the month. Another Holstein, Leland Sunbeam, produced 2,246 pounds of milk, testing 3.33 per cent, and won a credit of 85,191 pounds of fat for the month. Such records speak well of the breed and will, undoubtedly encourage many a farmer to take up its breeding. Only a comparatively limited number of the breeders have females for sale. Mr. W. R. Gates, of Fort Atkinson, Wis., makes a specialty of supplying prospective breeders with cows and heifers and generally carries a good stock of both on his farm which is located in the Holstein belt of Wisconsin. His address is Ft. Atkinson, Wis. See page 56.

Last Call for Wm. Cash's Great Angus Sale.

In last week's issue of The Homestead we called our readers' attention to the sale of Mr. Wm. Cash, at Williamsburg, Iowa, on March 11th, and we again want to impress Aberdeen Angus men with the importance of this great offering. With twenty-one head of Blackbirds, five Lady Idas, three Trojan Ericas and twelve Prides, this sale must be regarded as one of the best that will be held this year. It is an offering that stands in a class by itself and Aberdeen Angus men from all sections should arrange to attend this sale. The get of Mr. Cash's noted show and breeding bull, Black King of Homedale 2d, and the cows and heifers bred to him should certainly be an attractive proposition for lovers of Angus cattle. In the bull offering will be eight head—three of which will be richly-bred Blackbirds. Black Ivor is a June calf and was sired by Black King of Homedale 2d, out of the great cow, Blackbird of Inverness, which in turn is a daughter of the great show and breeding bull, Woodlawn Blackbird Lad, and she will also be sold in the sale. This young bull will make a good herd bull for somebody when grown out and it is to be hoped he will fall into good hands. Another good young bull is Blackbird Influence, sired by the same bull and out of Dolly Blackbird by Imp. Prince 11th of Braeval. He is also a splendid proposition for a herd bull. Then there are several other good young bulls that he will offer in this sale that should be seen to be appreciated. The female offering in the Cash sale is certainly very strong and the breeding of the cows and the heifers and the individual merit will commend them to the most critical lovers of Angus cattle. We spoke in detail in our last week's issue of such good cows as Blackbird of Cherokee 31st, Blackbird of Inverness, Ida's Beauty 2d and other great cows and while it is unnecessary to again go over their breeding, we will say that nothing better nor more profitable will be offered this season. The heifers in this sale are a most desirable lot, and such a heifer as Blackbird of Cloverleaf 8th, a daughter of Black King of Homedale 2d, is not often found in a public sale. She is one of the best heifers that will be sold in any sale this year. Angus breeders are requested to look this heifer over on sale day. Then there is Blackbird of Cloverleaf 9th, a daughter of Black Woodlawn, and Etruria of Cloverleaf by Imp. Earl Erica of Ballinalloch that will also appeal to the most critical lovers of this great breed. We might go on indefinitely enumerating the choice things in the Wm. Cash sale, but when we say to our readers that they will find one of the most select offerings that will be sold this year they can depend upon it that they will find what they are looking for in his sale. The great bull at the head of this herd—Black King of Homedale 2d—is one of the great bulls today of the breed, and anybody buy-

ing any of his get or a cow or neifer bred to him can feel safe in thinking that they have secured as good as the breed affords. This bull has made his record in the greatest show rings in this country and now he is making good as a breeding bull and the number of calves now on the farm and in this sale will prove that he is one of the recognized sires of the present time. You can't go wrong if you attend the Wm. Cash sale on March 11th. Write for his catalog and be sure to be present on sale day. Kindly mention The Homestead when writing Mr. Cash. See advertisement on page 56.

Huckstep Has Some Great Jacks.

Mr. J. C. Huckstep, of Eolia, Mo., has on hand a great string of Mammoth jacks that range from two to six years of age that will please the most discriminating buyers. They are all blacks with mealy points, have good heads and are a great-boned lot. They are furthermore jacks that Mr. Huckstep can stand squarely behind with as good a guarantee as is possible to give and his guarantee is as good as a gold bond. See page 59 for Mr. Huckstep's address and when writing him kindly mention this paper.

Bellows Bros.' Short-horns June 14th.

Messrs. Bellows Bros., of Maryville, Mo., have selected June 14th as the date for their annual sale of Short-horn cattle. As in former offerings these gentlemen will have cattle that will uphold the standard of excellence set by them in their breeding operations. They this winter purchased the shown young show bull, Missie's Sultan, shown by Mr. Thos. Johnson last year as a senior calf and he should prove a worthy assistant to the two great Choice Goods herd bulls, Good Choice and Best of Goods. Remember this date, as Messrs. Bellows Bros. will have a treat in store for lovers of the red, white and roans.

Scotch Bulls for Sale.

The readers of The Homestead who want to buy a good Scotch bull should read the advertisement of Mr. W. H. McLaughlin, of Shelby, Iowa, on page 57 and write him or go and see him at once. He has several choice young bulls on hand that are sired by American Goods, a son of Imp. Choice Goods and Baron Kear 3d. One of these is out of the great cow, Imp. Miss Low, and another is out of the dam of the \$605 heifer by Cumberland's Last that sold in the Sonnenland sale. Then he has a richly-bred Duchess of Gloster bull, as well as several others of Scotch and Scotch-topped breeding. Now is the time to buy a bull of Mr. McLaughlin and buy him right, and the first man who gets there will get his pick of the bunch.

Related to the Leader of the Iowa Cow Contest.

The Richmond Guernsey herd, owned by Messrs. Ben Clark & Son, of White-water, Wis., has been tested annually for tuberculosis for the last fifteen years. In all this time it has been kept free from disease. Since its establishment in 1887 the herd has been bred with but one purpose in view—uniform individual excellence. The herd, with the exception of the sires which have been purchased by reason of their inherent merit, has had a common origin—one old cow which Messrs. Clark believed combined the excellencies they were seeking to establish. Results have demonstrated the wisdom of their choice. Just at present they are not offering any of their females for sale, but are listing a number of the young bulls. Read what is said about them on page 56.

Seed Corn That Stands the Test.

Our readers who buy seed corn of Messrs. Petty Bros., of Liberty, Mo., are running no chances in the way of getting a corn that is true to type, a corn that is a heavy-yielding corn and corn that is standing the test. These gentlemen test their corn thoroughly for germinating and have not found a test that has run below 97 per cent. Every bushel of shelled corn is carefully graded through a high-class grader so that an evenness of stand will be assured. Their yellow corn that matures early is a large variety that does well in every latitude. Their other varieties of white and yellow mature in 100 to 115 days and are as hardy varieties as are found. See page 16 for Messrs. Petty Bros.' advertisement and address and remember that they deliver a corn that gives results.

Inhumane Treatment of the Horse.

It is a fact well appreciated by livery men and others who use large numbers of horses that the clipping of the heavy coat of the horse in springtime has a tendency to lessen the uncomfortable-ness that follows the first warm weather work done. The most of these clip the coats of their horses quite early in the spring and find it highly advantageous to do so for numerous reasons. Farmers, however, have not learned this lesson as completely as they should. It is well worth while for every reader of The Homestead to fully inform himself as to the advantages to be gained by clipping the coats of his horses before beginning the season's campaign. By reference to the advertisement of the Chicago Flexible Shaft Company, on page 37, it will be seen that one of their Stewart No. 1 ball-bearing horse clipping machines may be had at a cost of only \$7.50. This machine is simply made, highly durable and designed for farm work. It is sold under a guarantee to be good for twenty-five years. By its use a horse may be clipped in thirty minutes. It would seem that thirty minutes could not be more profitably expended in any use of farm work, nor in as humane a use as this. For additional description concerning the clipper write to

the Chicago Flexible Shaft Company, 234 Ontario St., Chicago, Ill.

Open Sale Dates.

Col. Geo. P. Bellows has a few choice open dates during April, May and June that he would be pleased to submit to any who contemplate holding a public sale of pure-bred live stock. Colonel Bellows' address is Maryville, Mo. See page 55 for advertisement.

White Wyandottes and Fox Terriers.

Mr. S. Harr, of Riverside, Iowa, breeds high-class White Wyandotte chickens and fox terrier dogs. His advertisement on page 35 contains detailed information concerning the White Wyandotte eggs which he is offering for sale. These are from a great laying strain of this breed of fowls. The prices named are quite reasonable and in addition Mr. Harr offers as a premium to those who order two sittings, one set extra, free of any additional charge. Read the advertisement carefully and note his extremely reasonable prices on large numbers of eggs. The advertisement on page 34 offers for sale three fox terrier male pups. These Mr. Harr says are perfect beauties, nicely marked and from parentage that are great ratters. They will be sold at \$10 each. Orders for either chickens, eggs or pups should be sent to Mr. S. Harr, Riverside, Iowa.

H. A. Briggs and A. R. Ives.

Few men have done as much and very few have done more to improve the character of Percheron horses raised in this country than did Mr. H. A. Briggs, of Delavan, Wis. His ideals were high and his business sense was so well developed that he had unusual opportunity to leave his impress upon the great horse breeding industry of the middle West. The Wisconsin Agricultural College recently sought to suitably recognize his excellent services in the improvement of agriculture by singling him out for special honors in connection with its recent farmers' course. A Walworth county breeder who for many years has lived neighbor to Mr. Briggs and who has studied the business of horse raising under the veteran importer is Mr. A. R. Ives, also of Delavan, Wis. The farms of the two while not adjoining, have been sufficiently near to permit of active co-operation and now that Mr. Briggs has been forced, by reason of his much impaired health, to give up all breeding operations, Mr. Ives has enlarged his stud and is largely taking care of the trade which goes to Delavan. The two breeders have always had much in common. Both have believed in and exploited the merits of the farm-type Percheron. See page 59.

Last Call for the Donohoe Angus Sale.

March 10th, at Holbrook, Iowa, promises to be a red-letter event in Aberdeen Angus circles, when Mr. M. H. Donohoe, one of the most noted breeders in the West, will sell fifty-nine head of the very best of the breed. It is an offering that is seldom, if ever, equaled, and rarely excelled, and to those who are interested in the great breed of cattle we urge them by all means to attend this sale. In point of individuality and richness in breeding the offering must be recognized as one of the best that has been offered at public sale in recent years. In the first place there will be nineteen head of sons and daughters of the mighty Woodlawn in this sale and many of the females will also be bred to this noted bull. This in itself should be attraction enough for one sale, but that is by no means all of the good things that will be offered at this time. There will be daughters of the world-famous bull, Imp. Prince Ito, and also the grand champion World's Fair bull, Prince Ito 2d, as well as daughters of Imp. Proteros, Imp. Earl Erica of Ballindalloch, Bion, Elmar Lad, Western Star and other noted sires. Quite a number of the females in the sale will be bred to Bermerton, the two-year-old son of Prince Ito 2d, and no breeder will make any mistake in selecting a cow bred to this bull. He is a richly-bred Blackbird bull, descending from the second branch of this noted tribe. There are some rare plums in the way of Black Woodlawn heifers in this sale. The Blackcap heifer, Blackcap M., out of Blackbird McHenry 66th, is certainly one of the best propositions to be offered, and we hope she will go to some good herd. Blackbird Lady 7th by the World's Fair grand champion bull, is also an outstanding heifer, and another very choice thing is the Black Woodlawn heifer out of the World's Fair grand champion cow, Blackbird 26th. There are many more of these that deserve equal recognition, but as we made a somewhat extended mention of these in our last week's field note, we leave it to the breeders to send for the catalog for further particulars regarding these young things. Among the many great cows to be sold is Blackbird of Woodlawn 15th, a daughter of Imp. Prince Ito, and she sells with a nice young heifer calf at foot by Glenmere Starlight. She is one of the best daughters of this famous sire that has gone through a sale ring in recent years. Blackbird Mary, one of the most richly-bred Blackbird cows in the sale, and an outstanding individual and breeder, sells bred to Black Woodlawn, and she has a splendid June heifer in the sale sired by the excellent bull, Blackdale. Blackbird McHenry 53d by Imp. Proteros, is another splendid cow, bred to Blackdale, and another choice Blackcap heifer is Blackcap 32d by Prince Ito Lad. There are twenty-two head of these Blackbirds in the sale, and no breeder has ever sold a better lot. The eleven head of Trojan Ericas that he is offering are just as richly bred and as good individually. Among these is a five-year-old daughter of the Hooker

PUBLIC SALE OF WALNUT HALL SHORT-HORNS

TO BE HELD ON MY FARM AT URBANDALE
DES MOINES, IOWA,

WEDNESDAY, MARCH 16

Take Urbandale Car at Waiting Room to End of Line,
Which Stops at Corner of Farm.

THIS consignment includes **34 HEAD** of the best cattle in my herd, and **14 HEAD** from that of R. G. McAvoy of Valley Junction. It is a good lot of breeding cattle, six bulls and 42 cows and heifers. All but eight or ten of the females are of breeding age, and are either safe in calf or have lusty calves at foot by Scotch bulls of fashionable breeding. We are proud of these calves. They show the real value of the cows. Nearly one-half of the entire number of Scotch breeding, belonging to such popular families as the Lavender, Queen of Beauty, Duchess of Gloster, Missie, Mysie, Secret, Miss Ramsden, Emma and Nerissa. The others are Young Marys, Miss Hudsons, Mazurkas, and like old-time American favorites. Four of the bulls are Scotch, of the Ury, Marr Bessie, and Duchess of Gloster tribes. They are right every way. Sale on the farm, near end of Urbandale car line. Catalogs are now ready, and may be had on application to address given below.

O. O. SMITH, DES MOINES, IA.

Col. Geo. P. Bellows, Auctioneer.

TOO LATE TO CLASSIFY.

CARLOAD Angus Bulls

Sired by Scottish Hero 52494 and Glen's Prileno 591606. In ages from 10 to 20 months, in good, useful condition for the buyer. If you want bargain prices on bulls write me.

JOHN E. GRIFFITH, IOWA.
WASHINGTON

Percherons and Belgians

THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY." Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.

W. J. BUTLER, OTTAWA, ILLINOIS.
Long Distance Phone.

FIVE full yearling Chester White recorded sows, due to farrow Mar. and Apr.; \$35 each. Large 3-yr-old Hereford bull, \$100. C. Bloom, Bridgewater, Ia.

capsule of color; we prefer to eat ours without paint." That is, the majority do, but some of them take the capsule of color and mix it in the oleo in the sanctity of the back kitchen.

Did you ever try oat hay to see how you like it, or rather how your cattle like it? Cut just at the right time it makes splendid feed, and a good way to test it is to run the seeder twice around every piece of oat ground so as to seed it twice, then cut this strip for hay.

Venison is deer meat and bacon is deer meat.

Not to be out of fashion, taxes also are high this year.

Agricola kept the same currant patch doing business at the old stand for a score of years by simply mulching generously with straw. The neighbors who did not mulch failed to have much fruit.

House plants need sunshine. So do housewives. So do children and calves and every other animal with red blood in its veins.

DAY BY DAY.

By Agricola.

Do you remember the great political war cry about "the crime of '73"? If you do or if you do not many of us should remember the crime of '09, when we failed to pick seed corn in time, or the crime of cropping ground year after year without proper rotation.

The more you stroke a cat the more she humps herself. I do not know just what political significance lies in this fact.

Users of oleo in this locality say, "Thank you, I do not care for the

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WEEKS' TERM WILL OPEN APRIL 4TH, AT OKLAHOMA CITY, OKLA. The
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**ODEBOLT, IOWA, TUESDAY AND
WEDNESDAY, MARCH 15-16, 1910**

**THE GREAT TWO-DAY SALE OF
BROOKMONT HEREFORD CATTLE**

AT WHICH WE WILL UNRESERVEDLY SELL
200---CHOICE BULLS, COWS AND HEIFERS---200



GROUP INCLUDING SOME OF THE YOUNG BULLS IN THE SALE.

THIS CONSIGNMENT includes cattle by Imp. March On, Imp. Albany, Imp.
Chesterfield, Thickset, Columbus 19th, and other good ones that are close up
to Lord Wilton, The Grove 3d, Dale, etc. The cows are from one to four years old
and of the true Hereford type. Part are tried breeders and all that are old enough
are safe in calf to one of our herd bulls. The bulls cataloged are a choice lot, many
of them with strictly first-class herd heading qualifications. It has taken thirty

years of expensive purchase and close culling
to get the great merit we are now putting before
buyers. It is foundation material that may save you
thirty years of effort and expense. Send for our
catalog and learn what superb breeding is here. We
are prepared to entertain all out of town parties both
days. Auctions.—Cols. Woods, Reppert and Tequist.

A. E. COOK, ODEBOLT, IOWA.

TO A. E. COOK, Odebolt, Ia.

I expect to be with you on March 15
and 16, 1910.

Signed _____

Town _____

State _____

Homestead _____

LIVE STOCK AUCTIONEERS.

W. K. HENSS, WAYLAND, IA.

LIVE STOCK AUCTIONEER.
YEARS of experience selling pure-bred stock
for noted breeders. Terms reasonable. Write
for dates. Catalogs compiled.

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TOO LATE TO CLASSIFY.

DUROC JERSEY BRED SOWS

EIGHT March gilts sired by J. E.'s Chief, bred to Senator and
Ridge Wonder by Prince Wonder for March and April farrow;
weight 250 to 300 pounds. Price, \$40 to \$50 to quick buyers. I will
also sell J. E.'s Chief. Write for description at once; mention paper.

J. E. REES, GRAND RIDGE, ILLINOIS.

50 LARGE-TYPE, BIG-BONED POLAND CHINA SOWS

THESE sows are sired by Hadley, P. W. Giant and Jumbo. They are bred to Hadley and Victor (he by
Big Victor second prize aged boar at Nebraska State Fair, 1909). Choice tried sows, 350 to 400 pounds,
\$50 to \$75. For yearlings, 300 to 400 pounds, bred to farrow March and April, \$45 to \$75. Spring gilts, bred
to Victor for April and May farrow, 200 to 250 pounds, \$32 to \$50. They are heavy-boned, smooth, well-
grown sows. Bred by \$100 and \$150 boars, bred to the same kind, and as good as are grown. Sold 85 boars
and sows this at an average of \$40. Shipped to eight states. Sold 1,000 for breeders in seven years.
Careful selections made for mail orders. Pedigrees furnished at time of sale.

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If you want to buy or sell a Farm, City Prop-
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I AM thoroughly posted on all breeds of live stock.
Breeder of Red Polled cattle and Duroc Jersey
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THE TWO GREATEST SALES OF THE SEASON OF HIGH-CLASS ABERDEEN ANGUS CATTLE

In Point of Individual Merit and Richness of Pedigree These Two Offerings Have Not Been Equaled in Recent Years. Show and Breeding Cattle Par Excellence. Both Bulls and Females.

M. H. DONOHUE, HOLBROOK, IA.

Sale to be held in new sale pavilion

THURSDAY, MARCH 10, '10

60 Head 51 FEMALES 60
...9 YOUNG BULLS...

**22 BLACKBIRDS
8 TROJAN ERICAS**

**9 PRIDES
10 QUEEN MOTHERS**

NEVER before has such a high-class lot of show and breeding cattle been sold from my noted Oakfield herd. There will be 19 head in the sale that are sired by the celebrated show and breeding bull, Black Woodlawn, and many of the females will be bred to him. Among these will be some outstanding show propositions. Blackcap M., a daughter of Black Woodlawn, is one of the outstanding show propositions. Brookside Blackbird 11th by Black Woodlawn and out of the celebrated World's Fair cow, Blackbird 26th, is one of the choice things. Blackbird of Woodlawn 15th by Imp. Prince Ito, with a heifer calf at foot, will be one of the bargains of the sale. Some outstanding young bulls in the sale, among which is Blackbird Jack, a son of Black Woodlawn, and he is the choicest bull proposition of the year. Write for my catalog and come to the sale. Address

M. H. DONOHUE, HOLBROOK, IA.

Cols. Igo, Bellows and Jones, Auctioneers.

Wm. CASH, WILLIAMSBURG, IA.

Sale to be held in sale pavilion in town

FRIDAY, MARCH 11, 1910

52 Head 44 COWS and HEIFERS 52
8 BULLS

**21 BLACKBIRDS
5 LADY IDAS**

**3 TROJAN ERICAS
12 PRIDES**

2 K. PRIDES

THE remainder of the offering are Queen Mothers, a number of which will have calves at foot and others will calve shortly after sale time. Many of the very choice young things in the sale will be sired by my noted show and breeding bull, Black King of Homedale 2d, one of the greatest breeding bulls of the present day. There will also be daughters of Imp. Edward R., Imp. Prince 11th of Braevail, Black Woodlawn, Woodlawn Blackbird Lad, Imp. Earl Erie of Ballindalloch and other famous sires. Blackbird of Cloverdale 8th, a daughter of Black King of Homedale 2d, is one of the outstanding heifers in my offering. I am selling 8 young bulls in the sale, three of which are Blackbirds. Write for my catalog at once. Address

Wm. CASH, WILLIAMSBURG, IA.

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WHEN WRITING FOR CATALOGS, KINDLY MENTION IOWA HOMESTEAD

LIVE STOCK ARTISTS.

A. V. LOCK, REMINGTON, INDIANA.
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AYRSHIRE CATTLE.

Ayrshire Cattle

YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. Fred Tschudy & Sons, Monroe, Wis.

GUERNSEY CATTLE.

**BROOK HILL FARM
Pure-Bred Guernseys**

FOR SALE Bulls from three to fifteen months of age. Dams have made from four to seven hundred pounds of butter in one year, official test. Send for sale list.

David W. Williams, Supt.,
GENESEE DEPOT, WISCONSIN.

**WAUKESHA
GUERNSEYS**

THE herd numbers about 90 head. We are breeding for production and at this time are offering a few males and females at reasonable prices. If you are interested in Guernseys write or call upon

A. W. and F. E. Fox, Waukesha, Wis.

**BONNY BOY
GUERNSEYS**

I have a few young bulls for sale at this time. They are from some of my best milking dams. Address,
RALPH TRATT, WHITEWATER, WIS.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 9356, a son of Stranford's Princess A. R. 189, with 725 lbs. fat. He is a half brother to Dairymaid of Pinehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale. Ben Clark & Son, R. 1, Whitewater, Wis.

When writing to advertisers please mention this paper.

GUERNSEY CATTLE.

**SUNNY VALLEY
GUERNSEYS**

Males and Females for Sale
WRITE TODAY.

W. M. JONES, WAUKESHA, WIS.

GUERNSEYS

FOR SALE—I am overstocked and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

JERSEY CATTLE.

**A Serious Case of Milk Fever
DID NOT STOP**

Honey Pilotta 181786

SHE gave in the year just past over 8,000 lbs. milk. Her 6 months bull calf by a son of Golden Fern's Lad, is a real bargain at \$50.

SUNNY PEAK FARM, Elm Grove, Wis.

King Sappho King Jerseys

WE offer a few mature cows for breeding purposes, a few young cows and heifers and a magnificent lot of young bulls sired by King Sappho King 65262 and Loretta D's Champion Son 75002.

J. Q. Emery & Son, Edger, Wis.

VALLEY FARM

Is offering a few yearling bulls, sired by Blue Bell's Emblem 74774. Also a few bull calves. These are a fine bunch and will be sold cheap. For particulars, write Fred Stubleby, Black Earth, Wis.

RED POLLED CATTLE.

SEAMAN'S Red Polled Cattle, 50 h'd, the equal of any ever sold in Ia. 7 yr. old and 2-yr. old bulls, 40 to 50 cows and heifers of the greatest milking families known to the breed. Part of the old W. H. Seaman herd, Davenport, Ia. Visitors can be shown 125 head of as good Red Polls as can be found in U.S. Gus C. Seaman, R. 5, Davenport, Ia. Telephone to farm.

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

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Rock Brook HOLSTEINS

I have a few choice young bulls for sale that are fit to head good herds. Also a few choice cows and heifers for sale.

HENRY C. GLISSMAN, Station B, OMAHA, NEBRASKA.

HIGH GRADE HOLSTEINS

COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want.

RIVERSIDE STOCK YARDS, ALGONQUIN, ILL.

Registered Holsteins (Established 1876.)

THE two greatest sires of the breed, Paul Beets DeKol and Hengerveld DeKol have more sons and daughters in this herd than any herd in the world. Plenty of stock for sale.

R. E. HAEGER, ALGONQUIN, ILLINOIS.

NOTICE

50 Holstein Bulls for Sale

20 From A. R. O. dams and rest from dams that are all high-class, registered cows. These bulls are in age from 5 to 14 months; well-grown and first-class individuals, from dams that are kept for profit. These bulls are sired by two sons of Homestead Jr. DeKol, the sire of Grace Fayne 2d's Homestead, world's champion cow. Balance by Johanna Rue, Sarcastic Lad, 12 A. R. O. daughters and close up in breeding of Colantha 4th Johanna. Prices low according to stock. Mention this paper when inquiring. For information, address

L. G. LEGLER, JUDA, WISCONSIN.

HOLSTEINS

LAKE MILLS, WISCONSIN

100 HEAD to select from, bred from the leading strains. Parties wanting bulls or females to improve their herds, write us, we can supply you. High-grades in car lots picked up on short notice.

WM. EVERSON & SONS

20 HOLSTEIN BULLS

From two weeks to eight months old. Fashionable breeding, large milking dams. Sir Netherland Cornucopia, whose two nearest dams average thirty pounds butter, and six nearest dams twenty-five pounds in seven days at head of herd. Prices moderate. Send for sale list.

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MONONA FARM HERD

Of pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

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Registered HOLSTEINS

10 Bulls fit for service. Cows and heifers any age.

W. R. Gates, Fort Atkinson, Wisconsin.

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MALES and females for sale. Herd numbers eighty head. Tuberculin tested. We guarantee our stock. T. J. BARMORE, Monroe, Wis.

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YOUNG bulls from A. R. O. dams for sale. They are our own breeding and will prove money makers for you. Buy the best and succeed.

JESSE R. ELLIOTT, WOODWARD, IOWA

Holsteins for Sale Wish to sell small herd, part registered and part high grade. Address C. A. Gaer, Wisner, Nebraska.

Wanted A car load of high-grade Holstein or Guernsey cows and heifers. State price. J. S. Brandt, Route 2, Clermont, Iowa.

GALLOWAY CATTLE.

ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otee and other cows equally well known. Write your wants; we can suit you. A. G. Abury, North Loup, Valley Co., Neb.

GALLOWAYS

HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address

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Clovermead Polled Durhams for sale. A few bull calves, cows and heifers; quality and prices right. Wm. Barrans, Lenox, Iowa.

Ottumwa W. B. Bonfield, Ottumwa, Iowa, breeder of Double Standard Polled Durhams. Bulls and heifers for sale. Fair prices.

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Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J. M. H. and Mike Dounhoe, of Holbrook, Iowa, and C. P. Leahy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jan and Morning Star 2d. We can supply any class cattle desired. Come o Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

INVERNESS
ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, - IOWA CITY, IOWA

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HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfold Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thicket, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Hardsman.

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THREE bulls for sale; also three bull calves. Dropped last August and Sept. They are sired by ton bulls and out of one of the beefiest cow herds in the state. My cattle have size, breeding, quality. Call on or address A. G. Messer, Grundy Center, Ia.

ABERDEEN Angus bulls for sale. We have as fine a lot of young bulls for sale, from 1 to 2 years old, as can be found anywhere. All of the fashionable families, and can suit the most particular buyer or anyone wanting a good bull at a reasonable price. Located 17 miles east of Des Moines on C., R. I. & P. and I. O. Rys. R. Wilkinson & Sons, Mitchellville, Ia.

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I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equester; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

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Ericas, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

One Registered Aberdeen Angus bull of serviceable age of good breeding. Address John Healey, Gilmore City, Iowa.

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EMANCIPATOR 5TH 821235.

We Are Offering Herefords

MALE OR FEMALE

of the choicest breeding and individuality. We meet anyone in price who will furnish the same quality of goods. Write us your wants. CARROTHERS BROS., RYAN, IOWA.

Polled Herefords

WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.

Warren Gammon & Son, Des Moines, Iowa. Originators of Polled Herefords.

HEREFORD BULLS

I AM offering six young Hereford bulls for sale; good, blocky fellows with good colors and heavy bone. Will price these bulls right. Address

A. F. HAGER, AVOCA, IA.

15 HEREFORD BULLS

FOR SALE, from 12 to 30 months old, sired by Advance 125531 and McKinley 95219. Address Z. T. KINSELL - - MT. AYR, IOWA.

HEREFORD Cattle

GOOD young cattle, bulls or heifers, for sale. Herd headed by Improver's Hesiod 107727. Blood lines of popular strains. D. S. O'LEARY - IOWA CITY, IOWA.

B. W. GREGORY, HARLAN, IA.
Breeder of HEREFORD Cattle

I have a few choice young bulls for sale at private treaty. Write, or come and see me.

FOR SALE Am offering for sale the Hereford bull, Duke Jr. 326537, one-year-old. This is an A. No. 1 bull of the low-down type, priced right. Call on or address Geo. T. Knutson, R. 6, Alden, Iowa. (Farm 2½ miles from Buckeye.)

HEREFORD CATTLE.

Polled HEREFORDS

THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd. J. W. WYANT, BLYTHEDALE, MISSOURI

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STEERS FOR SALE

NOW is the time to buy feeders. May and June markets certain to show big advance. Don't delay. They look high now, but they're going higher. Take our word for it. We can furnish you with feeders at right price. Write or wire us.

Kansas City Live Stock Commission Co., 277 L. S. Exchange Bldg., Kansas City, Mo.

SHORT-HORN CATTLE.

35 SCOTCH
SHORT-HORN BULLS

FOR SALE—From one to two years old, of the blocky, beefy type; herd headers also. 25 heifers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address

L. BARR & SON, DAVENPORT, IOWA.

WHITE BROS.
CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

SCOTCH
BULLS

I HAVE 5 excellent young Scotch bulls for sale. I sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.

Three Pure Scotch Bulls
FOR SALE

TWELVE to 16 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight.

T. A. DAVENPORT, BELMONT, IOWA.

S. H. THOMPSON'S SONS
IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

SHORT-HORNS and
PERCHERONS

We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices.

SMITH & BARNHART, South English, Iowa.

Wildwood Scotch and Scotch-Topped
SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Brawith Lad. For description and prices, address

W. W. VAUGHN - MARION, IOWA.

SUMMIT HERO OF SHORT-HORNS

20 Short-horn bulls for sale, of serviceable age; all good colors and choice breeding, and well grown. Prices right. Lee & Prentiss, Vermilion, S. D.

Six Short-horn Bulls for Sale

WE are offering six head of good young Short-horn bulls for sale, five reds and one roan. Good ones and at reasonable prices. Write us at once. H. Pritchard & Son, Walnut, Iowa.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd. S headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

SHORT-HORN CATTLE.

Choice Short-horns at Bargain Prices

CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fame 197980, and bred to my Cruickshank Flora bull, Narcissus King 239586. One extra good bull 16 months old by Royal Fame; 14 younger bulls, mostly by Narcissus King. A choice lot to select from at bargain prices; singly or car load. Address

R. J. COX, GRINNELL, IOWA.

Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all reds; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live-and-kill prices. R. M. Young, Cook, Johnson Co., Nebraska.

SCOTCH BULLS

I have for sale several richly bred and splendid individual bulls, reds and roans. The herd is headed by the Scotch bulls, Ringmaster and Choice Prince. Nine straight Scotch bulls, two Scotch topped, now ready for service. Farm adjoins town. Address G. H. GEORGE - MONTICELLO, IOWA

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns.

HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address

GEO. H. WHITE, EMERSON, IOWA.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.

W. J. HATHER, ORD, NEBRASKA.

POLAND CHINA SWINE.

WELLMAN HERD OF POLAND CHINA HOGS
AND SHORT-HORN CATTLE.

25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pigs not akin. Herd headers a specialty. 10 head of choice young bulls, 8 to 15 months old; all deep reds; sired by Masterlode 265765, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address C. F. SHAFER, R. R. 4, WELLMAN, IOWA.

PODENDORF'S BIG-TYPE

Poland China Bred Sows

I AM offering a splendid lot of strictly big-type, with quality combined, Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.

A. J. PODENDORF, LOGAN, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thicket 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. HELD BROS., HINTON, IOWA.

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HEREFORD cattle and Poland China hogs. We have sold out of hogs for this year, but have a few extra good bulls sired by March On 16th, Weston Anxiety; other great bulls. Come, see us; write us your wants. Prices right. Schain & Keep, Atlantic, Ia.

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I AM offering a choice lot of Poland China sows and gilts for sale at reasonable prices. Pedigrees furnished with sows. Address

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FORTY BRED SOWS—BIG TYPE

BIG-TYPE Polands with big-type blood lines sired by Napoleon Chief 84169 and bred to Corn Belt Expansion 153155 for March and April farrow. Write for prices and des. C. K. Hanson, Nashua, Ia.

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I have a few choice bred sows and gilts for sale at private treaty. Address

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Aluminum Ear Markers

are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample log, catalogue and prices mailed free. Ask for them. Address

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Aristocrat of Hogs

A \$50 sow that produces a litter of 8 pure Berks, two of which sold for \$67.50, is a good sow to the up to.

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This is a type of Morgan Farm hog flesh—all purebred Berks. Morgan Hogs win laurels everywhere. Hardy and best of breeders. Command highest prices and biggest profits. 50 Bred Sows now ready for sale. Be sure and write before buying.

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PRINE FARM
BERKSHIRES

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address

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Good Scotch Bulls for Sale

I AM offering a splendid lot of young Scotch bulls for sale, sired by American Goods, a son of Imp. Choice Goods and Baron Kear 3d. Strictly all right and prices reasonable. W. H. McLAUGHLIN, SHELBY, IOWA

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SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Plain View Stock Farm

GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address GEO. A. HANS, - NEWTON, IOWA.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Wm. M. Smith & Sons, West Branch, Iowa.

I AM offering a splendid lot of strictly big-type,

with quality combined, Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.

A. J. PODENDORF, LOGAN, IOWA.

AMERICAN HERD OF IMPROVED
CHESTER WHITES

Thirty choice spring gilts for sale, bred to Attractor 19289, a boar of extra length and bone, for March and April farrow. Call and inspect them or write for prices and descriptions.

ALDEN ANDERSON, RADCLIFFE, IOWA.

25 Chester White
BRED GILTS

FOR SALE at private treaty. Sired by Neponset Boy, Mear's Medium and Mike by O. K. Mikado. These sows are bred for March and April farrow. Prices reasonable.

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BROOD SOWS—Reserving nothing but the aged

sows; will let go best stuff I have raised. Bred to such boars as Joker, that has won more premiums than any hog living or dead. A "Triumph" hog that sold for the largest price of any hog of the breed. Weighed at 19 months, 720 lbs., and two extra good young hogs. J. H. Mahannah, North English, Iowa.

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AM offering a fine bunch of O. I. C. males and gilts with extra length and bone, sired by sweepstakes boar, Norway Chief, and Ohio Chief. Prices \$20 and up. Write for descriptions. J. T. SCARFF - SALEM, IOWA.

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GROWTHY spring gilts, from prolific families that raise big pigs and lots of them, bred for March and April litters. Price right. Stock shipped on approval. J. S. Kennedy, Blackton, Iowa.

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CHOICE bred sows and gilts bred to White Wonder for March, April and May farrow. Also four males. Priced at the bottom. Write now to C. W. CROSIER, JUNIATA, NEBRASKA.

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address S. J. Philson, Harlan, Iowa.

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CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa

Mehring Choice O. I. C., strong-boned, smooth, well-quartered July-bred sows for sale. Some fine Shropshire ewes. H. C. Mehring, Manson, Ia.

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CHESTER WHITE SWINE.

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 2d 5165, champion Iowa State Fair, 1909, and Minnesota State Fair, 1908; and Modeler 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented.

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Mear's Chester Whites

4 full boars and a great string of pigs by

NEPONSET ED. 16711

Are ready to ship any day. All sold out of bred sows of any age. Write or come.

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25 FALL PIGS
FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Aledo Belle and Delta Girl. These pigs will be priced worth the money.

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My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

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WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.



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MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock of both sexes for sale. Address, mentioning paper.

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WE have for sale young boars, ready for service. Pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.

25 Head of Spring Boars

5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable.

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KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY. Write Your Wants.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. MORTON & CO., Camden, Ohio.

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DUROC JERSEYS

BOARS all sold. We now offer high-class bred sows, sired by Model Chief 94969 and Advance 25773, and bred to such noted boars as Model Chief 44969, Advance 25773, the grand champion, Model Chief 2d 53753, and White Hall King 15977.

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CHIEF'S COL.
BOAR PIGS

ONE of the great brood sows, Helen Blazes, and sows by Ohio Chief, Proud Advance, and other great boars. Pigs ready to ship. Address for price and description.

H. E. BROWNING, HERSMAN, ILLINOIS.

GOLDEN MODEL heads herd, assisted by Advance 1st. Will sell head Golden Model sows in the Olson Bros. sale at Woodward, Ia., Jan. 31st, bred to Advance 1st. Five are litter sisters to my show sows of 1909, which won 11 ribbons at Iowa, Iowa Interstate, Neb., Minn. Wis. State Fairs; 1st, 3rd, 2nd and 2nd prizes. O. A. Olson, Madrid, Iowa.

Crimson Wonder I Am

SIX winter boars by this great sire now ready to go out. All of them champions. Three fall boars by American Champion Wonder. Nothing but show yard quality color. L. G. Davidson, Scranton, Iowa.

Deoy Bros., Mason City, Iowa, breeders of Duroc Jersey, Duroc Jersey, bred sows for sale. C. to Chief and Advance strains, bred to Col. boar.

REEDS' sows for sale safe in pig by Crimson Ram. Model Chief 9th and C. to Chief. Prices of blood sows guaranteed. Jno. Justice, Ankeny, Ia.

DUROC JERSEY SWINE.

Crimson Wonder
Again
Fall Boars for Sale

SOME great show prospects among these. Also some great herd boars. These are big and smooth, and priced to move. Also some good sows bred to C. W. A. for May farrow.

H. S. ALLEN, RUSSELL, IOWA.

Helen's Chief
High Notcher

Gladiol Col. and King's Col. head my herd of Durocs. I will sell King's Col. by King of Cols. Write for price.

M. A. KRASCHEL, MACON, ILLINOIS.

Duroc Jersey

Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

ARTHUR L. PARKS, LELAND, ILL.

DUROC JERSEY BRED SOWS FOR SALE

I AM offering 20 head of well-bred sows for sale bred to my noted boars. Two of these are daughters of Ohio Chief. Bred for March and April farrow. Prices reasonable. Address O. E. Osborn, Weston, Ia.

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banner 6457, out of Junior Jim, Ohio Chief and Kant Be Beat sows.

VON SEGGERN BROS., WISNER, NEB.

25 DUROC JERSEY BRED SOWS FOR SALE

SURED by King Solomon II., Advance's Choice; others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once. Address A. Leitz & Son, Piquette, Iowa.

Duroc Jersey Gilts

A FEW choice gilts of good breeding, out of A. matured sows, and bred to Royal Advance 8263, Royal King and Model Duke (son of Golden Model 2d). C. E. Lonsucker, Maxwell, Iowa.

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OFFERS spring pigs of either sex at bargain prices. Fashionable families. Individual excellence to suit discriminating buyers. Write for prices and descriptions or visit herd.

MIDLAND Durocs—8 gilts and 2 sows, bred for April farrow, for sale. The big-boned, growthy kind at moderate prices. S. J. Butts, Mason City, Ia.

FORTY SELECT DUROCS AT AUCTION



WEDNESDAY, MARCH 9TH

AT THE

Lien Ranch, Platte, S. D.



We have selected forty head of choice gilts that are sired by the following sires: The King's Jester 45521, sire Tip Top Notcher, dam the Lad's Goldie; Dakota Chief 81897, sire Chic's Chief, dam Oak Lawn Queen; Choice Bredwell 58559, sire W. L. A.'s Choice Goods, dam Topsy Belle. We have this year added to our herd a noted hog, The King 22305, sire King Pal 17221, dam Mamilla 42416. This hog needs no write-up, as he talks for himself when you look up his breeding. These sows are bred to The King 22305, Choice Bredwell 58559, King of Colonels 86629 and Masterpiece Climax 69335. We consider this as good a line of breeding as can be found in any herd. Catalogs are ready for distribution. Write for one. Purchasers coming from a distance will receive free entertainment at the local hotels. Bids sent to the auctioneer, the field men or to Lien Bros. will be handled with care and to the interest of the buyer.

LIEN BROS., PLATTE, S. DAKOTA, OWNERS

Col. W. R. Ritchie, Marathon, Iowa, Auct. E. T. Parker, Field Man for The Homestead.

DUROC JERSEY SWINE.

WE HAVE HAD A VERY GOOD BOAR TRADE

AND still have a few good Col. males left, and they have plenty of quality. One sired by King Solomon II., one sired by Tientsin 2d, the State Fair winner, one spring and one fall yearling sired by old Tientsin 17261. I could spare Tokio 79013, one of the best sons of Tientsin, a fine bred Tolstoy boar, and has proven himself a splendid breeder but owing to having so much stuff related to him, will spare him at a reasonable price; in fact, all the boar stuff we have will go at a very moderate price. We have quite a number of August and September Col. pigs. We will sell cheap, so come on and let us fit you out with a Col. boar; prices right. A. L. MOSSMAN & SON, RADCLIFFE, IOWA.

10 GOOD DUROC SOWS BRED TO

ALSO 2 CHOICE BOARS BY KING OF COLS. II

ALL are of our choice breeding. Sows bred to G. C.'s Kan. Col. by G. C.'s Col. and Col. C. by Kan. Col. II. and out of Red Princess. Write or come and see them. Chapin & Nordstrum, Green, KAN.

25 Duroc Jersey Bred Sows For Sale

I AM offering a choice lot of bred sows and gilts at private sale, bred to Iowa Model 24215 and Fahey Orion 56301. These sows are sired by the leading boars of the breed. Prices reasonable. Write me at once. Address MARK W. EDDY, FONTANELLE, IOWA.

BRIGHTON FARM DUROCS

A LIMITED number of aged sows, fall and spring gilts for sale. Descendants of Tolstoy, Pericles, A. Achiever. Bred for March and April farrow to Walter Model by Golden Model 2d and Gen. Moon, a grandson of Crimson Wonder 1st. For prices and further description, write to

HOFFMAN & CHAPMAN

WASHTA, IOWA.

40 HEAD DUROC JERSEY BROOD SOWS FOR SALE

SURED by Crimson Critic, I Am Advance, Belle's Chief I Am and other noted boars. Bred to Harding's King of Cols. and my other noted herd boars. 12 fall boar pigs for sale that are show prospects. Write me about these at once. Address R. J. HARDING, MACEDONIA, IOWA.

DUROCS \$22 EACH

WE are not offering any just now, but watch for us. We have some of the best sows in the country, bred to boars of the same kind. We have a few extra good Red Polled bulls of serviceable age, and will price them right.

"The Always Better Kind."

C. W. Huff, Mondamin, Ia.

The Sugar Loaf
Duroc Jersey Herd

Col. S. and Ohio Chief's Banner

HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

HIGH-CLASS DUROC JERSEY
BRED SOWS FOR SALE

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel boar. These are good. Will not hold a sale and am selling them privately. Address

J. D. McDERMOTT, WIOTA, IOWA.

Elder's Durocs

KING OF COLS. II. G. C.'s COL. and 30 of Grant Chapin's best brood sows were purchased and from these I have 125 choice spring pigs. Herd boars and choice breeding sows will be my specialty. Write your wants.

FRANK ELDER, GREEN, KANSAS.

B. & C.'S COL. Grand champion, Illinois and Iowa, 1909. Crimson Wonder II., grand champion, Nebraska, 1908, and McNeil's Model, champion under year, Ohio, Indiana and Illinois, 1907. Sows all sold. A few good boar pigs. (Ed. A. Baxter, Pawnee, Illinois. Address (R. L. Camer, Carlinville, Illinois.

DUROCS

A LIMITED number of choice gilts, granddaughters of old Kant Be Beat for sale, bred to Model Chief Gold, a full brother to Model Chief 2d; bred to farrow in March and April; will be priced worth the money. Write

J. W. TROY & BROS., ROSE HILL, MAHASKA COUNTY, IOWA.

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WE have thirty head of well-bred Duroc Jersey sows, to farrow in March, April and May for sale, at \$35 to \$50. White Bros., Perry, Iowa.

KEAN'S DUROC Bred gilts, popular breeding at moderate prices. Address FRANK KEAN, MT. PLEASANT, IOWA.

ORNAMENTAL Herd of Duroc gilts, bred to farrow in March and April; \$25 to \$40. For particulars, write S. S. Krebil, Donnellson, Iowa.

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Fifty head of imported and home-bred mares, two to six years old, bred to the best sires. Ten head of stallions, one to three years old. They are the right kind and priced right. Come and see and you will buy.

WELCH & PECK, LEXINGTON, ILL.

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$650 each. A. Lattimer Wilson, Creston, Iowa.



FOR sale—A Morgan stud colt, coming three years old; color bay; a fine individual and priced reasonable. Come or write F. Bowman, Eldora, Iowa.

HORSES AND JACKS.

ROAN'S GREAT SALE OF MAMMOTH JACKS AND JENNETS

Cloverleaf Valley Jack Farm, La Plata, Mo., Tuesday, March 15
25 JACKS—A HIGH-CLASS LOT—20 JENNETS

I WILL have in this sale 20 head of jacks all ready for service, a lot of them only 3-year-olds; the big, heavy-boned kind, with lots of head and ear; well broke to serve, with a lifetime of usefulness before them. Will also have 20 head of first-class breeding jennets, the majority of them safe in foal. Sale at Fair Grounds, inside city limits. La Plata is on the main line of the A. T. & S. Fe Ry., 135 miles east of Kansas City; also on Wabash, 40 miles north of Moberly. Write for catalog,

Cols. Cross and Harriman,
Auctioneers.

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SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1909 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

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Shires, Clydes, Belgians, German Coachers

OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing these where every farmer can buy. Come and see us. Address **Laben Harrison & Son, Prescott, Iowa**

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PERCHERON Stallions and Mares

At the present time I am offering twelve head of grand imported mares and three imported stallions at prices that will look attractive to buyers. If you are intending to buy come and see these stallions and mares. The mares are from yearlings up to four years of age, both blacks and grays, and matched pairs can be selected. For good goods at the right kind of prices I can satisfy your wants. Come and see me.

CLYDESDALE MARES

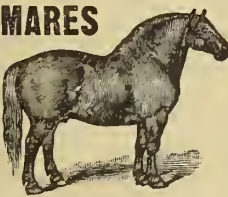
I have 60 head of imported Canadian-bred and home-bred registered Clydesdale mares. All have been wintered in Iowa and are thoroughly acclimated and ready for hard work. Big, strong, thrifty brood mares, three to six years old, weighing 1,600 to 1,800 pounds, and safe in foal.

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Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

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I have a splendid lot of three-year-old black Percheron and Clydesdale stallions that are strictly first class and I am making bed-rock prices on them. Address

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PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rinn (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. **CHAS. IRVINE, ANKENY, IOWA.**

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. **Ben Bohlander, R. 2, El Paso, Ill.**

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. **A. Latimer Wilson, Creston, Ia.**

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IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. **W. L. DeCLOW,** Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.



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WILLIAMS' Moulton Temple 10363, two years old; chestnut sorrel; sound. Price, \$1,200. He was good enough to win three blue ribbons at the Iowa State Fair, two blue ribbons at the Illinois State Fair and three blue ribbons, two silver cups and a championship at the International.

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HORSES PERCHERONS, Belgians, German Coachers

AND AT LOW PRICES.

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Jacks and Stallions AT QUIET GLENN

ONE or a car load of big black jacks, the kind you want and that will do your country good; no small ones among them. Choice of three good young Percheron stallions. Come at once; write for catalog.

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BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales.

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New Importation of Percheron, Shire and Belgian Stallions

EXTR weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. **PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.**

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IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit **Hart Bros., Osceola, Iowa.** We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse for \$500 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.



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Artificial MARE IMPREGNATORS

We GUARANTEE you can get from 2 to 6 mares in foal from one service of stallion or jack. Increase the profits from your breeding stables by using these Impregnators. No experience necessary to use them successfully. Prices, \$3.00 to \$5.00 each prepaid.

Popular SAFETY IMPREGNATING OUTFIT, especially recommended for impregnating so-called barren and irregular breeding mares, \$7.50 prepaid. Write for CATALOGUE which illustrates and describes our Impregnating Devices, Breeding Hobbles, Stallion Bridges, Shields, Supports, Service Hooks, Etc.

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I AM a native of Flanders, Belgium, import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

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40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and bred big mules. They are Missouri jacks—the best that grow—14½ to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop., EOLIA, MO. Pike Co.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address **GEORGE W. BILBO, CRESTON, IOWA.**

Dunham's Percherons

46 splendid stallions and mares arrived Feb. 9th. These, added to our present stock, afford intending purchasers the finest selection in America. If you want the best horses—horses with bone, quality, action and best breeding; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit Oaklawn. Renowned for nearly 50 years as the best. Catalog shows the place and the horses.

W. S., J. B. & B. Dunham, Wayne, Ill.

AT AUCTION MARCH 16, AUBURN, NEB. 40 IMPORTED SHETLAND PONIES

Mares in foal, fillies, stallion and geldings, from yearlings to 6-year-olds; well bred and good individuals; personally selected by M. J. Clarke, from the best herds in Scotland and Shetland. Send for catalog. Col. Woods and others, aucts. **R. C. Boyd, clerk. Clarke Bros., Auburn, Neb.**

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON,
BATAVIA, IOWA.

Percheron and Belgian STALLIONS and Mares

Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot, ½ mile north of C. M. & St. P. R. R. depot. **E. H. Knickerbocker & Son, Fairfax, Iowa.**

Large Heavy Boned Mammoth Jacks

FOR SALE; from 15 to 16 hands high, for \$350 and upwards. Farm located 8 miles west of Cedar Rapids.

JOHN HENRY FAIRFAX - IOWA

FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. 7 ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

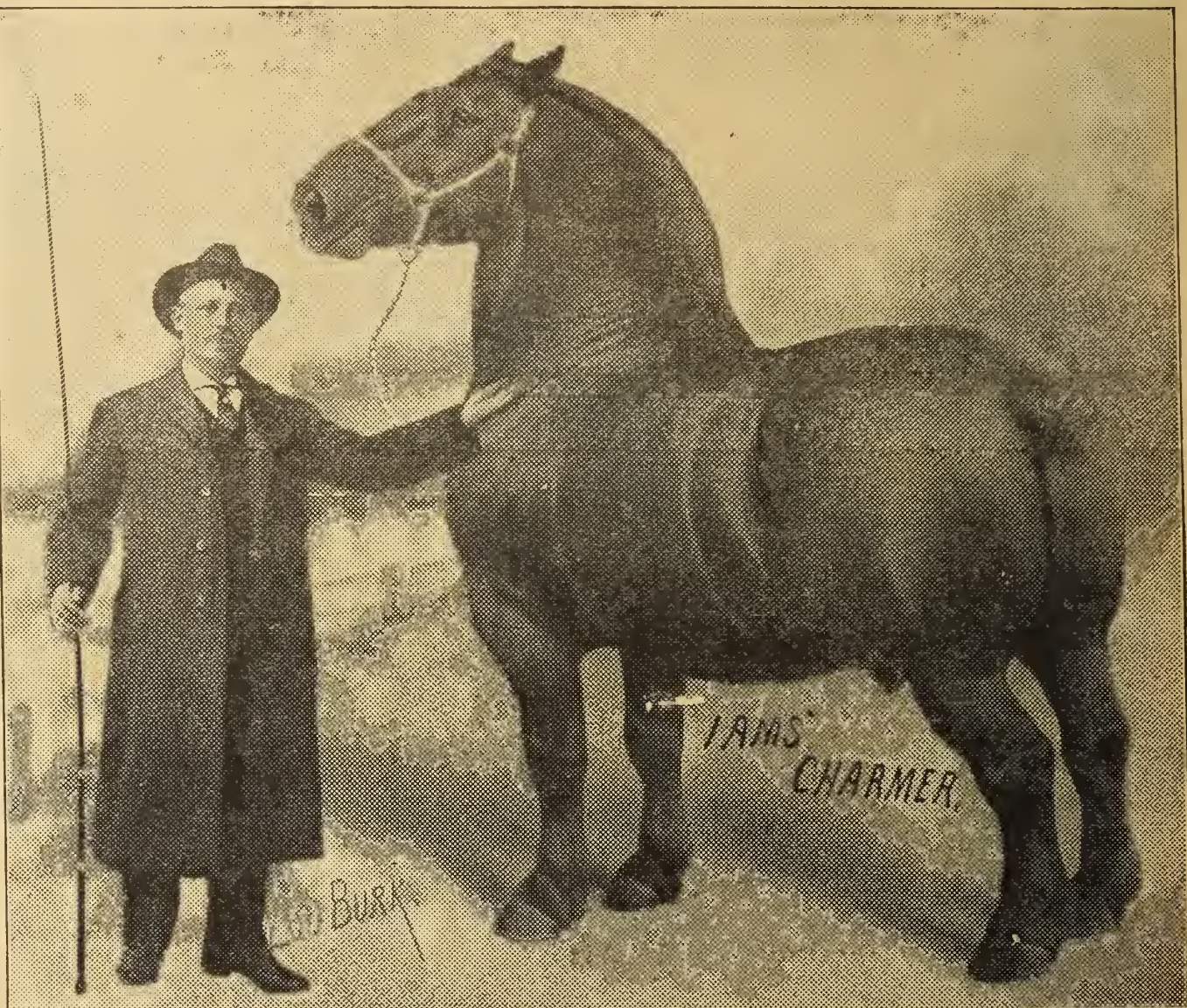
BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. **Frank L. Stream, Creston, Iowa.**

FRANK IAMS' 1910 STALLIONS

"Peaches-and-cream" imported stallions and mares are "rosy ripe," in the "pink of condition," and all must positively be sold. Get on to "Iams' money-saving game." Buy stallions and mares today. Get stallions ready for "spring business." "Ikey Boy," be the "early bird." They get the business and choice of Iams' "top notchers." "Leave your happy home," visit the "peaches-and-cream" stallion man, and save \$1,000. Every day is "bargain day," a "horse-show day," and a day of "profit and pleasure" at Frank Iams' "Stallion and Mare Emporium" and largest in the United States at St. Paul, Neb. You will positively see here more imported stallions and mares, "top notchers," "Medal winners," "ribbon grabbers," and every-day "business" horses, than at any "horse plant" in the United States, and double all others in Nebraska. Iams backs up his "ads" and catalog with a "\$500 bonus" (no others do this). He gives five of the best banks in Nebraska for reference. Iams'

170 KINGS AND QUEENS OF PERCHERONS AND BELGIANS

are all "top notchers," no international "tail ends," no "auction stuff," no "pick-ups" or "peddlers' horses," but the best bunch of big-boned, big drafters of quality and finish in the United States, and in the "pink of condition." Iams is a "big fly in the ointment" in the "horse business." He "sets the pace" for all competitors. Iams leads the procession. "Ikey Boy," buy an imported stallion and two mares of Iams, the horseman that "does things." Get into Iams' Band Wagon; don't be "side tracked" by any "hammer knockers." "Ikey Boy," "waltz me around once again" and land me at Iams' "four importing barns" and box office filled to the roof with big "black boys and girls" at bargain prices. Iams is the only horseman that really has "the goods" as advertised. 1910 promises to be the most prosperous year in history. Mr. "Stand Patter," "come on down town."



All The World Knows IAMS, THE BIG HORSEMAN

He has a loving feeling for horse buyers. He sold sixty imported stallions and mares to "Iowa boys" in 1909, and 150 "top notchers" to the boys with brains in other states. Iams sells \$4,000 imported stallions at \$1,000 and \$1,400 (some higher), imported mares in foal, 1,700 to 2,400 pounds, at \$700 to \$1,000; many medal winners. Iams sells the "wide-as-a-wagon" kind that don't need to be "peddled" or put on the "auction block" to "catch suckers." Iams is a horseman in a class by himself. He is selling more horses yearly. Ikey Boy, don't be the lobster; "be the wise guy, after all." Try Iams, the "peaches and-cream" stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a "warm spot" in his heart for all stallion buyers.

He Saved \$300,000 to Stallion Buyers

in 1909 by selling stallions direct to the people, saving all middlemen's profits. Iams is an expert horseman. He knows the "top notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin'-and-a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick stallion salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 or \$4,000. "Son Ikey," form your own "stallion company." Visit Iams' town of barns filled to the roof with big, "black boys," the "best ever," "Iams' kind." His 170 stallions and mares, two to six years old, weight 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent ton horses, are a horse show better than the "International."

Iams' 1910 Horse Catalog is an "Eye Opener"

a "bunch of gold," the "book of books" to stallion and mare buyers. It is full of truths, facts, "business propositions," and 115 illustrations of the best and largest imported stallions and mares in the United States, "true to life"—the "wide-as-a-wagon drafters," the real "peaches and cream" stallions. It shows the "tricks" of "stallion peddlers" and "auction block" salesmen. It is the finest, most elaborate, and original, up-to-date book in the world. Iams' twenty-eight years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on honor. A boy or lady can buy as cheap as a man and get a better horse of Iams, the "square-deal" horseman. If you visit him and don't find every statement in his advertisement or catalog as represented, you can get the \$500 that he hangs up. Iams guarantees to sell you a

Better Stallion at \$1,000 and \$1,400

(few higher) than are being sold to farmers' stock companies at \$2,500 to \$4,000, with 60 per cent breeding guarantee, with freight and fare paid by Iams. He can furnish buyers \$1,500 insurance. You say, "Why can Iams sell better stallions at half the price of others?" Iams buys and sells every stallion himself. He buys stallions by special trainload, 200 at a time. He speaks the languages, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick" salesman \$100 to \$1,000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions. He sells stallions by "hot" advertising and having "the goods" to make every statement good. Iams sells stallions so good that they do not need a "slick" peddler or the "auction block" to sell them.

IAMS WILL SAVE YOU \$1,000 IN COMMISSIONS

and middlemen's profits. "Papa, dear," buy me a pair of imported mares of Iams. They will raise me colts at six months old that will sell for \$500, and be good for twenty years. Iams has the kind that lay these "golden eggs." Don't let one of these "auction men" "hand you a lemon" with one of these so-called American full bloods with questionable breeding. Iams' "selling clothes" fit all buyers. Write for Iams' million dollar horse catalog. Iams' guarantee is backed by a half million dollars. Reference: Omaha National and First National Bank, Omaha; Citizens National, St. Paul State Bank, and First State Bank, St. Paul, Neb.

ST. PAUL, NEBRASKA.

HORSES.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

STALLIONS AND MARES

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog

HENRY LEFEBURE, FAIRFAX, IOWA.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of
PERCHERON HORSES

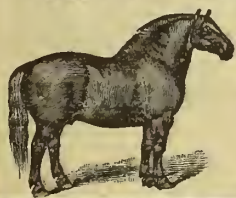
Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - NEBRASKA.**

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS



WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

**FORD & HARRINGTON, PARKER, SOUTH DAKOTA.
FAIR OLY, ILLINOIS.**

A CLYDESDALE SPECIALIST CATALOG

If you have or ever expect to own a Clydesdale, or if interested in this firm, send today. As, ultimately, you will want to come to the headquarters of the breed to buy, it will be to your gain to come now.

OUR BOOK WILL SHOW YOU WHY

McLAY BROS., JANESVILLE, WISCONSIN.

Percheron and Belgian STALLIONS AND MARES

OUR third importation arrived January 13th; all with quality, size and action. Stallions from \$300 to \$1,000, a few show horses a little higher. Best mares \$650 in foal. I can save you from 20 to 100 per cent on imported horses the way business is done in this country. Every horse is sold with a reliable pedigree and guarantee. Seward is 23 miles west of Lincoln, Neb.

JOSEPH ROUSSELLE & SON - SEWARD, NEBRASKA



When Writing to Advertisers Please Mention This Paper

HORSES.

Maple Lawn Percherons

60 PERCHERON STALLIONS AND MARES

AT PUBLIC AUCTION IN THE SALE PAVILION AT

Mitchell, S. D., Friday, March 11, 1910

**25
STALLIONS
1 to 4
YEARS OLD,
MOSTLY
BLACK;
HEAVY
BONE,
AND
OF THE
TON
TYPE.**



**35
MARES
ages 1 to 6
years; 25 of
them safe in
foal to the
service of
TOREADOR,
the Interstate
Champion,
and other
Imported horses
that I have
on
my farm.**

THIS will be a grand opportunity to secure a good stallion or a pair of extra good young mares that are fully broken to work, and that are safe in foal to some of the best stallions in America; or a young stallion or a young filly, or a pair of young fillies. They are all blacks and grays, and several well-matched teams that would be a credit to any man to own. This is my third offering of Percheron horses at Mitchell, and is far the best that I have ever offered, from every standpoint. They all have the best of legs, the best of feet, and best of colors, and they are an honest lot of Percherons. Attend the sale and you will not be disappointed in the offering. For catalog, address, mentioning The Homestead,

P. W. Moir, Orange City, Ia.

Cols. F. M. Woods and P. McGuire, Auctioneers.

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.**

IMPORTED PERCHERON MARES

Bred to Carnot 66666, International Champion of 1909.

Imported PERCHERON STALLIONS

2-Year-Olds; 3, 4 and 5-Year-Olds; Blacks and Grays.

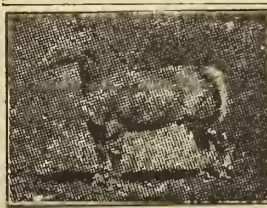
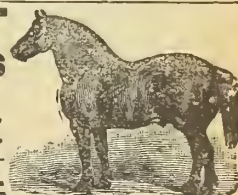
If you want horses with lots of bone, quality, style and action I can please you. My January importation is now in my barns. I would like for you to see the mares bred to and heavy in foal to Carnot. Get my prices before buying. Only one yearling stallion of my entire importation is reserved. Come and see my 1910 importation.

S. J. MILLER, Kirksville, Missouri.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares

LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 18th. Ernest L. Humbert & Son, Corning, Ia.

When Writing to Advertisers Please Mention This Paper

HORSES.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians so we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners.

We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

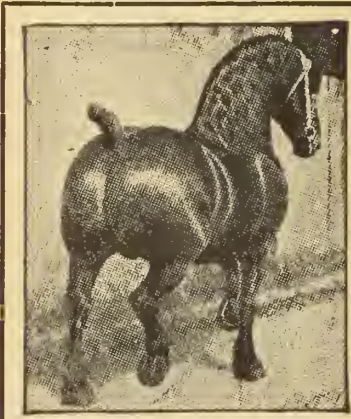
SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES



We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on

yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

PERCHERONS

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

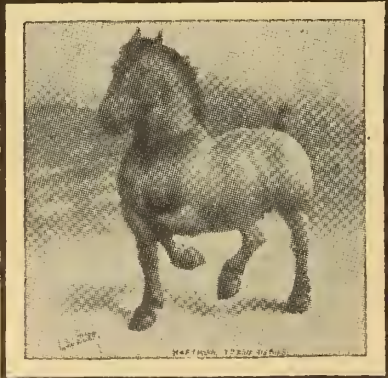
FIFTY stallions and thirty-five mares. We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA. C.O. Keiser, Keota, Iowa

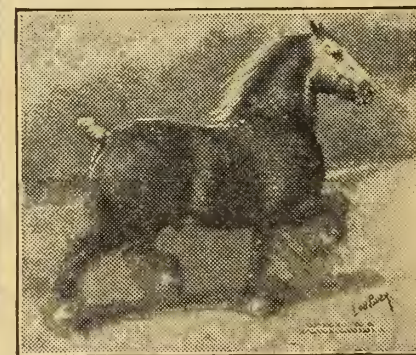
Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY

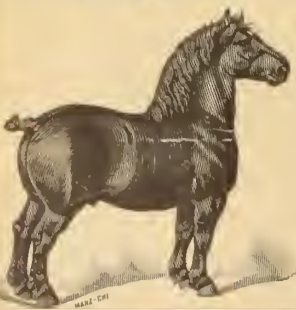


OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of **Belgians** and **Percherons**, with a few **Shires** and **Coachers**, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

YOU ARE MISSING THE OPPORTUNITY OF A LIFETIME



If you do not send and get **OUR NEW 1910 CATALOG** before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909 and are all in prime condition to go out on the stand and do a big season's business. They are nearly all solid colors, range in age from 3 to 6 years, in weight from 1,700 to 2,300 pounds. They are the big-boned, blocky type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a Government bond. **GET OUR CATALOG.** It is free for the asking.

WATSON, WOODS BROS. & KELLY CO., LINCOLN - NEBRASKA.

GEO. W. SOUERS & SONS, HUNTINGTON, IND.

IMPORTERS OF

PERCHERON AND BELGIAN ...HORSES...

If you want to see the best bunch of Belgian stallions to be found anywhere in the West, come to our Sioux City branch barn. Our guarantee is iron clad and there is no importer in the United States who can beat our terms and prices. A visit will convince you. Write for our 1910 catalog. Barns at the Sioux City Stock Yards.

Herbert E. Bray, Manager, Sioux City, Iowa



The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on **Imported Clydesdale Stallions and Mares**; also a few choice bred hackneys, sired by the Loudon champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U. S. Our show yard record will convince you that **we have the goods.** Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C., R. I. & P. Railway, forty miles northwest of Peoria, Illinois.



Ensign's PERCHERONS



OUR importations of prize-winning mares, ages from two to four years, arrived at our barn at Keota, France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write

S. A. ENSIGN, CLEGHORN, IOWA
C. A. PINGEON, Sale Manager.

HORSES AND JACKS.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

1910 IMPORTATIONS ARRIVED JANUARY 25TH AND FEBRUARY 20TH.

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in THE WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

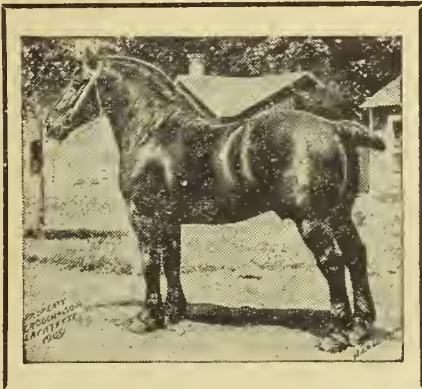
TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

BEFORE YOU BUY A STALLION

Be Sure to See What Is
Offered By The

LA FAYETTE Stock Farm

Where
Quality and Quantity
Are Assured



A grand lot of big-boned Drafters, with the desired weight—**PERCHERON, BELGIAN, SHIRE, GERMAN COACH** and **HACKNEY STALLIONS** and **MARES**—a place where you can be suited in a horse at the right price, terms and guarantees.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

**W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM,
CEDAR RAPIDS, IOWA.**

Special Announcement of Our Second Annual 30-Day Sale
ON

STALLIONS and MARES

WE can show you a grand lot of imported horses—Percherons, Belgians, and Shires—that landed here last Aug. They are now in excellent breeding form, all dark colors, 2 to 4 years old, weighing from 1,800 to 2,100. Also a choice lot of American-bred Percheron stallions of serviceable age, yearlings and stud colts. Our importation of Percheron and Shire mares is now ready for sale. With them we can show you a grand lot of American-bred Percheron mares and fillies. All mares of breeding age in foal. Over 100 head of stallions and mares to select from. Every animal goes on the bargain counter. All International winners included. Nothing reserved. Write us your wants today; we will tell you if we can please you. Car fare refunded if you find we have misrepresented anything to you. Remember, every animal guaranteed a satisfactory breeder. If you want a real bargain in a first-class animal of either sex, come at once and get your choice. Our Motto: Prices right; terms to suit; satisfaction guaranteed; no misrepresentations or disappointment on arrival. Write our home bank for reference. Homewood is on the main line of Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly. Bell 'phone, Homewood 204.

S. METZ & SONS, Homewood, Ill., or Abilene, Kan.

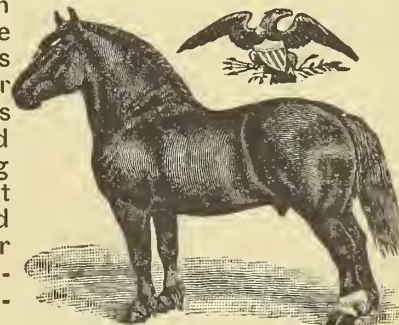
THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October, one in November, another shipment arrived about the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.

A. B. HOLBERT, Greeley, Ia.



IF YOU WANT TO BUY A STALLION

—EITHER—

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any banker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer.

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. for the asking. Address BOX 63.

MOVING PICTURES

OF DAN PATCH 1:55 MAILED STOCKOWNERS FREE WITH POSTAGE PAID.

THIS IS A SENSATION OF THE WONDERFUL WORLD CHAMPION AND GREATEST TRIUMPH IN THE MARVELOUS AND REALISTIC MOVING PICTURE ART.

It is a New Invention that you can carry in your pocket and show your friends instantly day or night, either once or a hundred times and without a machine, curtain or light. It is the most Attractive Novelty and most pleasing Dan Patch Souvenir ever Invented and shows Every Motion of Dan Patch 1:55 in pacing one of his Marvelous and Thrilling World Record Miles and it is Absolutely True To Life.

A MILE OF THRILLING RACE PICTURES,

2400 MOVING RACE PICTURES OF DAN PATCH 1:55

and every one of the 2400 pictures shows the King of all Horse Creation as plainly as if you stood on the track and actually saw the mighty Dan Patch 1:55 in one of his Thrilling Speed Exhibitions for a full mile. Just think of it! 2400 Moving Pictures Taken Of Dan in 1 min. and 55 sec. means 21 pictures taken for every second all of the way around the entire mile track from the back seat of a high power automobile.

You Can See Dan Shake His Head To Let His Driver Know That He Is Ready And Then You Can Watch Every Motion Of His Legs As He Flies Through The Air With His Tremendous Stride Of 29 Feet. As A Study Of Horse Motion Alone This Is Better Than If You Saw The Actual Speed Mile Because You Can See Dan Patch Right Before You For Every Foot Of The Entire Mile And Not A Single Motion Of His Legs, Body Or Head Can Escape You.

You can see his Thrilling Finish as he strains every nerve and muscle to reach the wire in record breaking time, you can see his driver dismount and look at his watch while thousands of people crowd around, you can see his caretaker force his way through the crowds, uncheck Dan and then throw a beautiful woolen blanket over him to prevent catching cold and

MY NEW, POCKET MOVING PICTURES MAILED FREE TO ALL STOCKOWNERS

With Postage Prepaid--If You Are A Farmer, Stockman Or Poultry Raiser I Require A Correct Answer To These Three Questions.

1st. In what paper did you see my Moving Picture Offer? 2nd. How many head Each of Horses, Cattle, Sheep, Hogs and Poultry do you own? 3rd. How many acres of land do you own or how many acres of land do you rent? I Personally Guarantee, Free To You One Of These Marvelous Moving Pictures, If You Write Me Today. You cannot buy them for \$5.00 each. -- Signed, -- **M. W. SAVAGE**

IF YOU ARE NOT A STOCKOWNER AND WANT THE PICTURES SEND ME TWENTY-FIVE CENTS FOR POSTAGE,

Packing, etc., In Silver or Stamps and I will mail you this wonderful Moving Picture of Dan Patch 1:55, the fastest harness horse the world has ever seen. -- If you send me Twenty-five Cents in Silver or Stamps--EVEN if you do not own any stock or land, I will mail it to you postage prepaid. It costs Thousands of Dollars to have these made.

Write At Once to -- M. W. SAVAGE, Minneapolis, Minn.

I OWN THE 5 FASTEST WORLD CHAMPION STALLIONS EVER OWNED ON ONE FARM IN THE HISTORY OF THE WORLD.

TWO WITH RECORDS BELOW TWO MINUTES.

On my "International Stock Food Farm" of 700 acres I own Dan Patch 1:55, Minor Heir 1:59½, Directum Jr. 2:10½, Arion 2:07¾, Roy Wilkes 2:06½ and also about 200 head of Young Stallions, Brood Mares and Colts and they eat "International Stock Food" every day. I will be pleased to have you visit my farm at any time and see my horses and their splendid condition. I feel sure that you never saw their equals at any Fair or Horse Show. **ACTUAL TEST IS WHAT PROVES EVERYTHING IN THIS WORLD.** If "International Stock Food" gives paying results for the highest priced horses in the world on my farm it certainly will pay you to use it for all of your stock. Remember that if it ever fails to give your Horses, Cattle, Sheep or Hogs, better assimilation and digestion, purer blood and perfect health with quick growth and fattening that it will not cost you a cent no matter whether you have used one hundred pounds or five hundred pounds and you are to be not only the user but also the sole judge of results. I will leave the entire matter for you to decide and accept your own statement. How the United States Government backs my claims that "International Stock Food" is strictly a medicinal tonic, blood purifier, etc. During the Spanish-American War, United States officials made a special examination and decided that "International Stock Food" was strictly medicinal and I paid \$40,000.00 patent medicine war tax. Can any honorable man deny this evidence? "International Stock Food" and label design is registered in Medicinal Department as a Trade Mark No. 52791 giving it commercial standing and rights as a distinctive

"TRADE NAME" FOR A MEDICINAL, TONIC PREPARATION The United States Government issued me a Trade Mark No. 22885 on the world famous lines, 3 Feeds for One Cent -- as showing how cheaply International Stock Food can be mixed with the regular grain feed -- My label shows a list of the medicinal ingredients used and 250,000 Dealers have sold "International Stock Food" for over 20 years as a medicinal tonic preparation.

Write to M. W. SAVAGE, Minneapolis, Minn.

18 Acres of Floor Space

Covers Over A City Block



INTERNATIONAL STOCK FOOD FACTORY LARGEST IN THE WORLD OVER 800 EMPLOYEES

International Stock Food
International Poultry Food
International Compound Absorbent
International Pheno-Chloro
International Distemper Remedy
International Foot Remedy
International Colic Remedy
International Lice Killer
International Lice Paint
International Gait Heal
Silver Pine Healing Oil
International Heave Remedy

Dan Patch Stable Disinfectant
Dan Patch White Liniment
International Worm Powder
International Hoof Ointment
International Sheep Dip
International Cattle Dip
International Hog Dip
International Harness Soap
International Gopher Poison
International Worm Remedy
International Healing Powder
International Quick Blisters

ASK YOUR DEALER FOR ANY OF THESE PREPARATIONS and insist on having what you ask for. Beware of many cheap and inferior substitutes and imitations. High Class Dealers Sell My Preparations on my Spot Cash Guarantee to refund your money if they ever fail.

PRESENT SALES LARGEST IN THE HISTORY OF THE BUSINESS Signed, **M. W. SAVAGE**, Owner of International Stock Food Co. -- and also -- International Stock Food Farm.

DO YOU EXPECT TO SEE THE DAY WHEN THESE WONDERFUL DAN PATCH 1:55 RECORDS WILL BE EVEN EQUALLED?

DAN PATCH 1:55 HAS PACED

1 MILE IN	1:55
1 MILE IN	1:55½
2 MILES IN	1:56
14 MILES AVERAGING	1:56½
30 MILES AVERAGING	1:57½
45 MILES AVERAGING	1:58
73 MILES AVERAGING	1:59½
120 MILES AVERAGING	2:02½

DAN HAS BROKEN WORLD RECORDS 14 TIMES

In addition to all these records Dan Patch is proving to be one of the Greatest Sires of both pacers and trotters in all horse history -- Look up his large official list of Standard Performers.

Dan Patch 1:55 has gone more Extremely Fast Miles than the Combined Miles of All The Trotters and Pacers That Have Ever Lived. Be sure and remember these facts when you think of any Horse equalling Dan's Wonderful Performances.

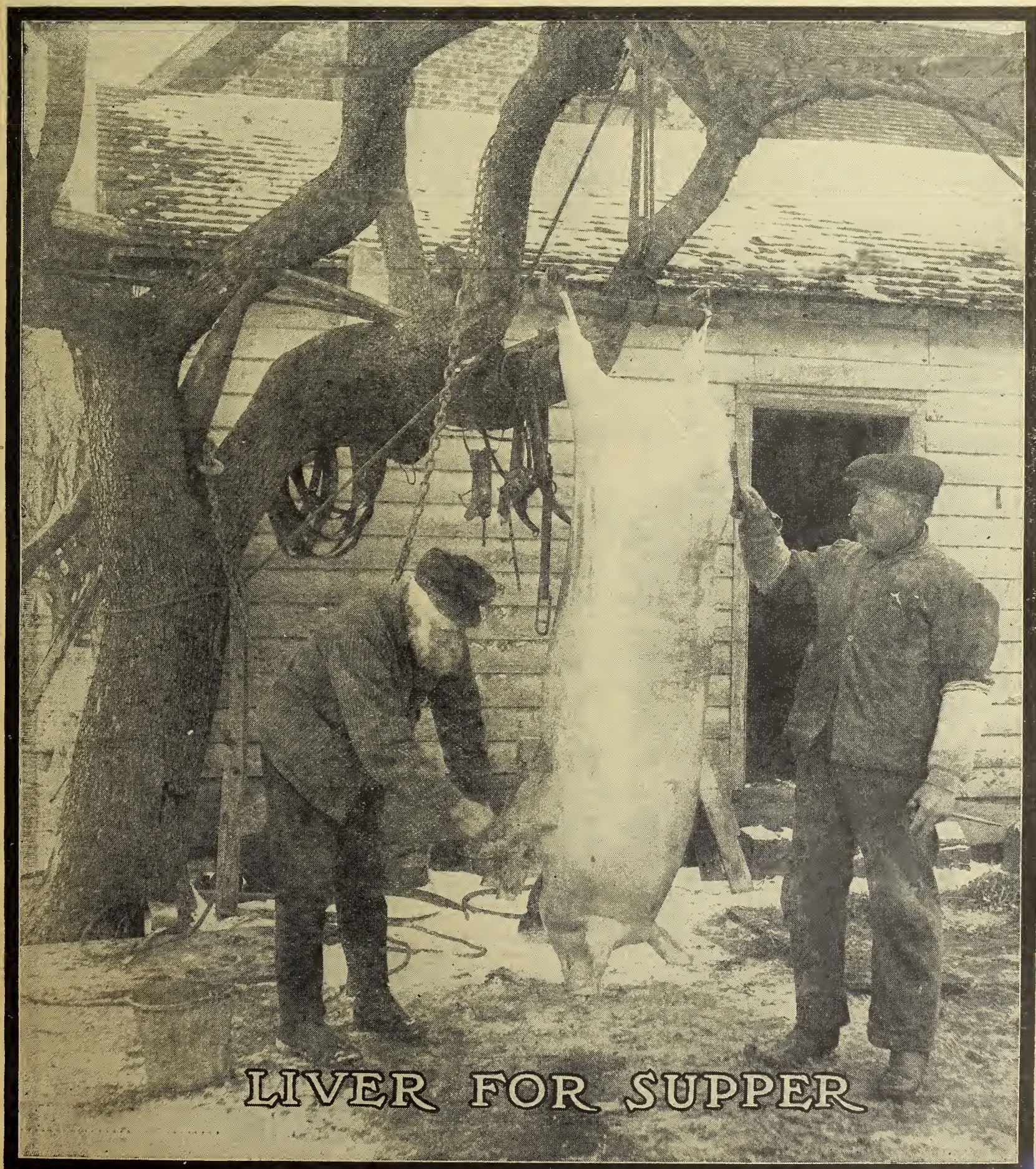
For Seven Years Dan Patch has eaten "International Stock Food" every day mixed in his regular grain feed. It has given Dan Purer Blood, More Strength, More Endurance, More Speed and Perfect Health. It is constantly used and strongly endorsed by over Two Million Farmers and Stock Breeders, as the Greatest Animal Tonic, and has been for 20 years. No other preparation has such strong United States Government and practical Stock Breeders Endorsement, as has International Stock Food.



VOL. LV. NO. 10

DES MOINES, IOWA, MARCH 10, 1910

WHOLE NO. 2735



LIVER FOR SUPPER

How I Made a Million Dollars Farming

I farm 26,000 acres of good land; 18,000 acres of it is in corn. I use a double row cultivator like the one shown below and it saves me \$20,000 a year

My name is David Rankin. Perhaps you know of me through hearing about my big farm at Tarkio, Mo. I've been a farmer and stock feeder since I was 11 years old and my specialty has been corn. I've made a million dollars out of corn indirectly.

I mention these things merely to show that I know something about corn, and about corn growing and about the machinery that gives most help in raising corn.

It's about the cultivator I use that I want to talk to you. I think I built the first one row cultivator myself in 1853. The two row machine that I make, now called the David Rankin Two Row Cultivator, is just like it except that there's some 57 years of improvement on it.

Will Save You Man and Horse

I save on my farm \$20,000 a year with this cultivator, that's about \$1.11 per acre.

If you are now using more than one of the single row cultivators, it will save you \$1.11 per acre.

It will save you the whole time of one man and one horse.

You see it does the same amount of work as two single row machines in the same time—with one less man and one less horse. If you grow 80 acres of corn, for instance, this two row cultivator will pay for itself and save you from \$40 to \$50 cash over and above its price the first year.

It Will Do Better for You Than for Me

It will do better than that probably and here's the reason why. My farm is so big that I can't watch all of my men all the time. They will short cut on corners and won't go close to the fence and will skip over spots now and then.

That costs me money—I keep close tab on these things, so I know. I operate 125 of these machines all the time.

But you will probably operate the machine yourself or personally oversee those who do, and you will get all those places that I miss. You can cultivate as close to a fence with this cultivator as you can with a single row plow—you can work on side hills as well as with the one row—you can plow straight or crooked rows on smooth or humpy land. There isn't anything it won't do as good as a single row machine.

Easiest Handled

Everybody says it's the easiest

handled machine they ever saw. There's no doubt about that. It is very light draft, too.

Outside of all the saving you can do with one two-row cultivator, it costs less to buy than two one-row riding cultivators.

But you don't want to figure the cost of a machine by the price tag on it.

Divide the price by the number of acres you have and then subtract the average of what the machine has saved others per acre. The difference is the profit per acre the machine will make for you. It's the right answer, too.

Helps Toward Intensive Farming

The only way you can make your present size farm pay bigger profits is to reduce the cost per acre of production. If you can save \$1.11 per acre on the cost of production of your corn through the use of this machine, it's as good as adding \$1.11 per acre to the yield, isn't it?

It makes your present farm pay better and that's what you want. That's a step toward intensive farming and intensive farming has got to come in this country.

A Word About Successful Farming

I regard whatever success I've had as due mainly to the fact that I have always used labor saving machines, even if I had to borrow money to buy them with. I had to borrow to buy my first plow.

If I bought a plow one season and saw a better plow the next year I didn't hesitate a minute, I threw

away the first one, if I couldn't sell it, and bought the better one. Many manufacturers who are getting out new machines send them to me before putting them on the market and ask me to try them out. They know I'm a crank on farm machinery and that I can give them actual figures on the real value of the machines.

You've got to work fast to make the most out of your farm, and the only way you can is with good machines.

Single row cultivators get on my nerves with their slowness. You never see one around my place.

You ought to have a two row—if I am any judge of how to make money out of corn—and you ought to have this particular two row cultivator because it is the original two row cultivator and the best cultivator I have ever seen, and I guess I've seen them all.

My Personal Money-Back Guarantee

I have such unbounded confidence in this cultivator that I personally guarantee it.

If any man uses a David Rankin Two-Row Cultivator for two weeks

on his farm and does not feel that all that is claimed for it is true, he can send it back to Tarkio and I'll buy it right back at the full price and freight. I'll see that every cent he paid is refunded, including the freight both ways.

That's what I think of the David Rankin Two Row Cultivator.

There are a great many of these cultivators in use on large and small farms, and I want to say right here that the small farms need them most because they most need intensive farming.

If you raise as little as forty acres of corn you need this cultivator.

Only One Profit in My Price

I don't want any more than a fair profit on this cultivator, and I don't sell through your local dealer, so you keep the money he'd make. You get a better cultivator at a lower price when you get one of these direct from me than you can anywhere else that I know of.

But let me send you the catalog that tells all about the cultivator in detail, then you can decide for yourself. Send your address on this coupon.

D Rankin
(1) President.

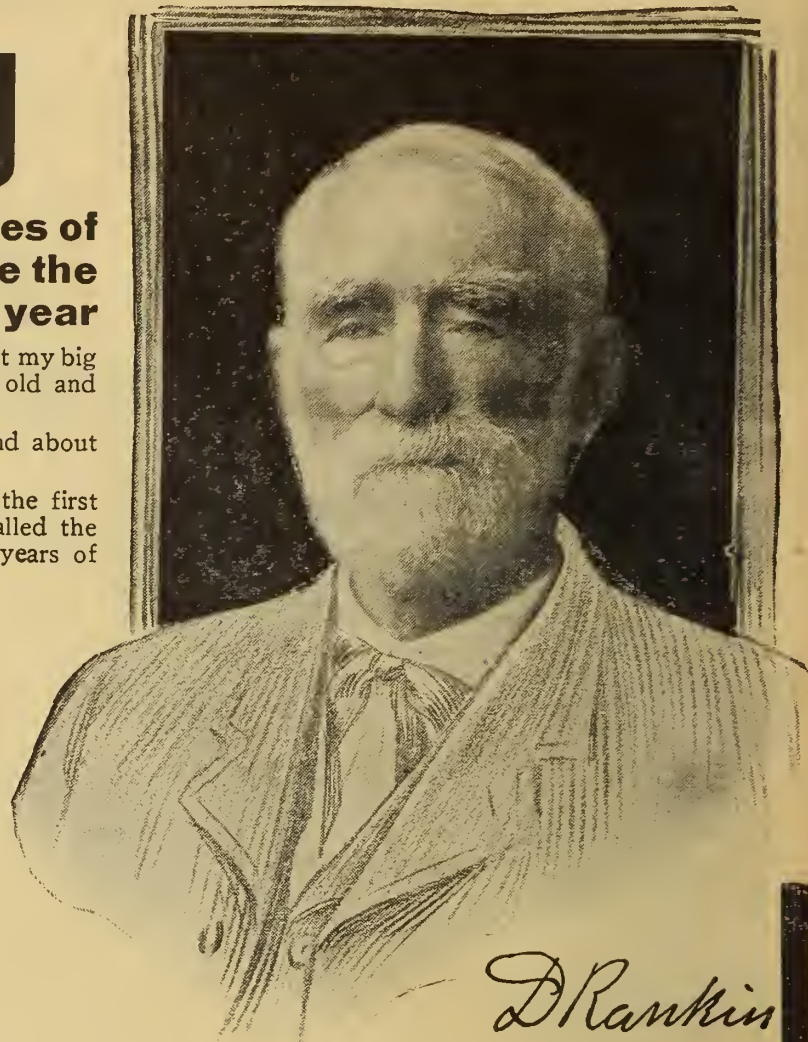
Cut Out as a Memo to Write David Rankin this way:—

David Rankin,
Box 120, Tarkio, Mo.

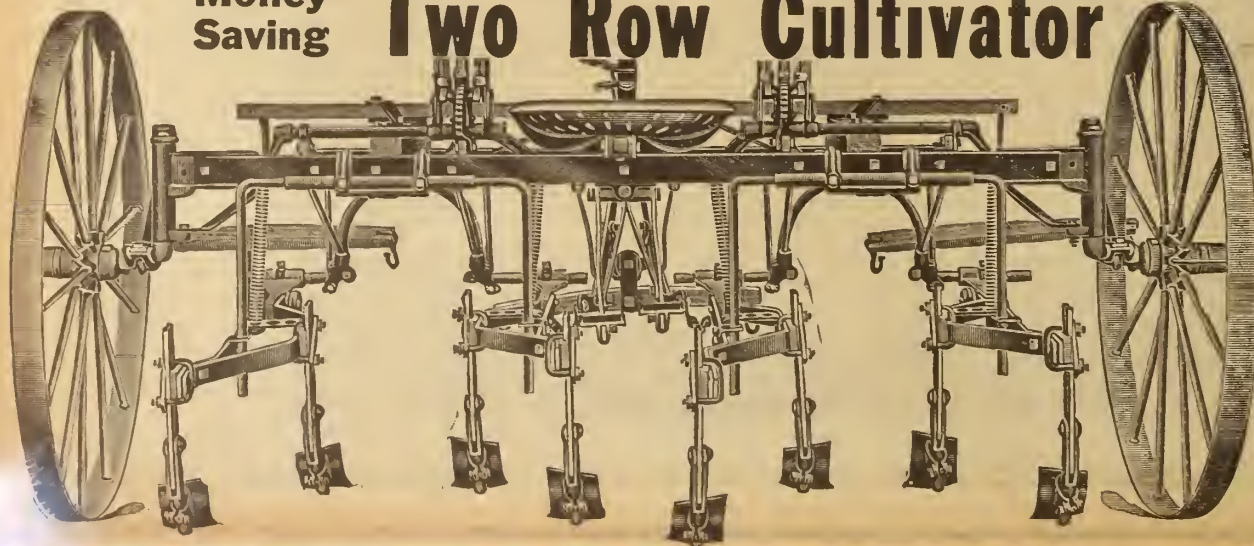
I'd like to read all about your Cultivator, so send me full information.

Name

Address



David Rankin's Money Saving Two Row Cultivator



The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MARCH 10, 1910.

THE VALUE OF GOOD SEED

By O. M. Olson

MANY do not recognize that the use of good seed will in some ways offset a lack in some of the other essentials to a good crop. To a certain extent a deficiency in soil fertility, an improperly-prepared seed bed, neglected care during the season and adverse climatic conditions are overcome by a use of good seed. However, farmers should not draw the conclusion that by the use of good seed they may neglect some of the other essentials of crop production. If good seed is good for neglected conditions it is doubly so under good conditions.

The two chief requisites of good seed are variety and condition. In choosing the variety of any particular crop to be grown it is emphatically essential to choose one that will ripen or mature under the normal climatic conditions. The production of a crop is beset with pitfalls enough without inviting complete failure by planting a crop requiring a longer season to mature than is usual in the locality.

Probably the second consideration of importance in the selection of a variety is the choice of one known to be a good yielder and at the same time a marketable grain. Certain wheats are known to be good yielders and yet do not produce a wheat that is desired by the market. In a like manner the purity of a variety is essential. Not only does the market object to a mixed grain, but it is also objectionable from the standpoint of successful harvesting. Purity should also include its freedom from objectionable weed seeds.

In this connection emphasis should be placed on the importance or necessity of using only the best part of the grain. As cereals come from the thrashing machine they invariably contain a considerable percentage of small, chaffy seed and in some cases there is a considerable quantity of large, light grain. Both of these should be separated out by the free use of the fanning mill. There is no one thing that will so quickly and effectively improve cereal crops as by the more general introduction of fanning mills accompanied by their sensible use. It is not an uncommon thing in certain grain-growing sections to find men who grade their grain not only once or twice, but even as many as seven or eight times. It is possible to take wheat, for instance, that weighs sixty pounds per bushel as it comes from the thrashing machine and make it weigh sixty-three or sixty-four pounds. The advantage of sowing this heavy grain is apparent without any explanation, because the young plants start strongly from heavy seed and very often a good start is enough to make the difference between a paying and non-paying crop. A number of the experiment stations have dem-

onstrated that it is not only possible to maintain the standard of a given variety by free grading, but that it is possible to improve it. The Ontario station has been carrying on work along this line for a period of fifteen years, and as a result of the free grading of grain they have succeeded in increasing the yielding ability of several important varieties that have been grown that length of time. This manner of grading the grain is fundamental and it seems as though the time has arrived when the necessity for handling grain in this way is self-evident without further need of agitation. The same laws are in effect in the vegetable world as are in vogue in the animal kingdom, and every man knows how much can be accomplished in a given period of time by the judicious selection of the sire and dam in every generation.

A final consideration in the choice of a variety might be termed an inherent resistance to climatic conditions, disease and insect pests.

It is in view of some or all of these considerations that certain varieties should be chosen. And this, in the face of the fact that the writer believes that by proper methods of selection and care the standard of any variety may be materially made better. But the lack of time and a definite knowledge of the best manner to effect improvement makes it a part of wisdom on behalf of most of us to purchase the accomplishment of others. It looks the part of folly for us to spend years endeavoring to effect an improvement when a small additional price per bushel will give us the desired result immediately, and leave us free to exert our energies to maintain or better the improvement. In this connection it might also be said that farmers who make no effort to maintain the standard of

the grain they grow will gain by the purchase of reliable seed each year, while others who practice a rigid selection of their seed have little or nothing to gain in purchasing from other sources.

The second and most vital consideration of good seed is its condition. We say this because we feel that in a great many cases with the accustomed varieties grown in a locality, a rigid observance of sowing only seed of a vigorous vitality there could be made a decided increase in the returns per acre. Too often the farmer gives no heed to the germinating power of his seed and but little attention to the grading of the same. He has too often a fixed rule as to the quantity sown per acre with but a little regard for its quality. Very frequently they are rigid in the selection of their breeding stock and disregard the same reproductive law in their seed selection.

The two physical indications of condition in seed are its weight and color. By its weight per bushel we have a good indication of its maturity and development and the comparative value of heavy and light-weight seed needs no repeating. Weight is also an indication of its preservation. Color is, however, a more conclusive indication as to its preservation and age. Bleached, discolored and bin-burned grain has a weakened vitality and should not be used for seed except in extreme cases, and never until a germination trial has been made.

In fact, a germination trial is the only reliable test as to the vitality of any seed and should be used more frequently than it is. Not only should this test be applied to our corn and grass seed where a good stand is of vital importance, but to our small grain as well.

I am not a stickler for any special method of ascertaining the germinating quality of seed, because I think that is a matter where each man should use whatever method appeals to

him most. Our experiment stations have advocated the plan of testing corn between wet cloths, and with proper care that method may be used to great advantage. One has to be very careful, however, to note that his soil or sawdust is uniformly wetted, otherwise certain kernels will not germinate because they are not surrounded with sufficient water, and he may conclude that they lack vitality, whereas they may be the very strongest corn that he has. If either sand or sawdust is used it should be thoroughly soaked for several hours before putting in the seed, as that gives it time to become uniformly saturated. By making the germination medium a little warm by the addition of warm water the process may be greatly hastened, and in that way the time required to test a given amount of seed will be reduced



MODEL OF 160 IMPORTED "PEACHES AND CREAM" PERCHERON AND BELGIAN STALLIONS AND MARES THAT POSITIVELY MUST BE SOLD BY FRANK IAMS, ST. PAUL, NEB. SEE ADVERTISEMENT ON PAGE 61.

(Concluded on page 6.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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PUBLISHED EVERY THURSDAY

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IMPORTANT PLACE FOR SILO.

One of the most extensive feeders of ensilage in the central West has computed the value of the roughage from a fifty-bushel crop of corn at \$13.67 per acre. This means that in putting corn into the silo at the proper time you not only get the full value of the grain, which in this supposed instance is fifty bushels per acre, but you get an additional food value of \$13.67. If the crop is not cut, but husked out in the ordinary manner the stalks are probably worth \$1 per acre. As practically one-third of the corn in the central West is still in the field, it means that even the stalks have not been pastured this winter so that the fodder part of the corn crop has been practically a total loss. As a result of this state of affairs roughage has reached that point in value where it cannot be fed out at a profit.

Men who have been feeding ensilage during the winter are the only individuals who are not soured against the live-stock proposition. They find that they have been able to take their breeding cattle and their young cattle through the winter at a minimum cost on ensilage, and a gain has been made every day rather than a loss. Imagine, on the other hand, the actual loss incurred on a bunch of cattle as a result of carrying them through in the yard, as has been the case in most instances this year where they have been fed a maintenance ration of straw or hay. Such cattle have possibly lost anywhere from ten to twenty-five pounds every month, per head, and it will take a greater part of the summer to get it back.

This winter's experience has taught many a man a bitter lesson and it will no doubt result in making the silo more possible than ever. Roughly speaking the feeding value of a given acreage of corn can be increased 40 per cent by putting it in the silo, as compared with our present slipshod methods of handling the crop. One advantage of the silo is that it furnishes storage where feeding is most convenient, and by the use of ensilage one man has been known to take care of 300 and even 400 steers. Under most any other system of feeding one man will be kept very busy if he handles seventy-five steers.

It is the common belief among those who are best posted on values that grain, particularly corn, will gradually appreciate in value until it is on practically the same basis as wheat, and that being the case, we cannot see how it is going to be possible to feed out steers in the old-fashioned way and make a profit out of them. The situation can only be met by utilizing say five or six tons of grain and roughage from an acre of corn, instead of one and one-half or two tons as has been the case in the past.

Possibly those of our readers who are engaged in feeding steers would be interested in a statement made by one of the most extensive feeders of ensilage in this country, Mr. Humphrey Jones, of Ohio. In addressing an Iowa convention some time ago, Mr. Jones said:

Fifty bushels of corn to the acre will make about ten tons of ensilage as it comes from the field, and about eight tons as it comes out of the silo. There is a weight of about 3,000 pounds of

corn in that, which you see is about 20 per cent of the total weight as fed to the cattle; and the steer will eat about fifty pounds a day, which contains ten pounds of corn, and he is getting it in a form that he digests and utilizes every pound. If you add to that two to five pounds of cottonseed meal, all our information upon that matter is that it has a feeding value of about two and one-half times shelled corn; so that if you give a steer five pounds of cottonseed meal he is getting an equivalent of ten pounds or more of corn, in addition to the ten pounds of actual corn fed in the ensilage. If he digests and utilizes every pound of twenty pounds of corn, either in the form of cottonseed meal or shelled corn, he will do well, if he has all the good roughage he wants. In addition to that, this ensilage puts him in the shape that he is when he is on grass. It is a succulent, cooling food that keeps his hair in the same condition as when he is on grass, and it finishes him up evenly. Our experience has been that they finish up more uniformly on the ensilage than on the dry feed. These gains, as you can see, if they are made as rapidly on the ensilage, hay and cottonseed meal as they can be made in any other way, must be made much more economically because you are utilizing there the stalk and the leaves and the husks of the corn plant, which, as I have said, counting the corn worth forty cents a bushel, and fifty bushels to the acre, is worth two-fifths as much as the ears; so you are feeding about \$12 or \$13 worth that you are wasting in the ordinary way of feeding.

Of course, prices have gone up almost 50 per cent since the above assertion was made, and this increased value applies to the roughage even more than to the grain part of the crop, because at the present time roughage is relatively higher than grain, so that instead of getting a feeding value of \$12 or \$13 per acre out of the fodder part of the corn crop, those who are feeding from silos now are really getting anywhere from \$18 to \$20 worth of fodder from every acre of their corn.

VALUE OF COLLEGE EDUCATION.

The editor of an eastern magazine declares that a young man studying agriculture for four years in the practical, next-to-the-soil courses of one of the state colleges or universities of the middle West would be sure of his life work and on graduation would step out into a job. "That is more than the average graduate of an eastern college can do in the overcrowded Atlantic coast cities," he adds, and proceeds to cite what he terms typical instances of agricultural opportunities. "The dean of Wisconsin State University received by mail in one day—a typical day—a request to fill three positions and was unable to do so because none of his pupils were at that time in shape to take the jobs. The first was \$1,000 a year for an assistant in dairying; the second was \$1,200 a year for an assistant in agronomy; the third was \$1,800 a year for an assistant professor in agronomy. Last year there were \$50,000 worth of positions which he was unable to supply. These were college positions. There were also something over 100 farm positions as wage-earners, whose total value was \$30,000 in salaries."

To the eastern man who graduates from college and then hunts and hunts for a position all this appears very remarkable, but the magazine editor has in reality hit on the least important and least profitable result of practical education in agriculture in the next-to-the-soil courses in the state colleges and universities of the grain belt. It is not the few who secure college positions that prove the worth of this education, but the many who return to the farm, and in daily work practice what they have been taught, who are making every dollar invested in the teaching of agriculture return a hundredfold. The magazine editor is impressed by the fact that the University of Wisconsin might have turned out practical farmers who would have earned \$80,000 a year in salaries. But supposing that the university had turned out 100 graduate farmers and that instead of taking positions bringing in \$30,000 a year in salaries these men took over the farms of any one county in any one state of the grain belt. These men would be in a position to increase the corn crop from the average yield of thirty bushels per acre to thirty-five bushels, by putting into actual practice the knowledge they had secured at college. This increase of five bushels to the acre in any one county of any state in the grain belt would mean an increase in the corn crop of from \$200,000 to \$275,-

000 in one year. In comparison with this the \$30,000 in salaries cited is meager and paltry.

The function of the agricultural college is not to educate college professors or station directors, but to make better practical farmers who will return to the farms and exemplify what they have learned. The moment they begin to educate away from the farm, that moment the colleges of agriculture will cease to be of their present great value and will cease to have the support and the well wishes of the great body of citizens. There is vastly greater profit from studying agriculture and returning to the farms to practice it than there is in remaining in college to teach others. It is necessary, of course, that some who learn should remain to teach, but they are few as compared with the many who must go back to the farm to make farming more profitable and farm life more attractive and satisfying because of what they have learned. If the magazine editor wants to prove the superiority of practical courses in the next-to-the-soil colleges let him get access to the bank books of the student-farmers. He will have a story before which his present one will shrink into utter insignificance.

IMPORTANCE OF SETTLED CROP ROTATION.

Upon the maintenance of a correct crop rotation depends in a great measure the continued prosperity of the farmer of the corn-producing West. While this is probably true in all agricultural sections of the earth, it is, to our mind, of much greater importance to those lands which are particularly adapted to corn culture.

The price chaser is the bane of agricultural industry. The immediately attainable high price is his guiding star and in the haste of his chase he does not hesitate to break in upon and destroy well-established crop rotations. As an instance of the consequences following his misguided energies, the present situation with reference to hay and corn may be cited.

A few years ago, when a continuous upward tendency in the market price of corn became marked, public attention was attracted in an unusual degree to the subject of corn culture. There has been an intense interest in and extended discussions of improved methods of production looking to higher quality and greater yield per acre. While this agitation did not materially increase the acreage of corn, it does seem to have been responsible for a material reduction in the area devoted to pasture and hay production. Statistics for the state of Iowa show a decrease of a round million acres of such pasture and meadow lands since 1905. It may fairly be inferred that a like decrease has taken place in other corn states. The good old pastures have looked good to those who were looking for the readiest means of procuring an increased yield per acre of corn.

This withdrawal of one-fourteenth of the area of sod land is responsible for the falling off in hay products. Hay is scarce, so scarce that at farm sales the ruling price, where the only competitors were farmers aiming only to supply their own needs, has been around \$17 per ton. Instances are not uncommon in which the figure has reached \$25. It is evident that the interest in other crops has had the effect of disturbing the ordinary balance of supply and demand by shortening up the supply. Some consideration should of course be given to the unusual condition of affairs during the winter which have rendered unavailable the roughness of the corn fields. A greater proportion of hay has been fed on farms than has been done in past winters. The main deficiency in the hay crop, however, may be attributed to the lessened acreage.

It may reasonably be inferred with reference to corn, that a fair proportion of the responsibility for the large area of corn which was down at husking time was due to troubles resultant from continuous corn cropping. Soil which has been devoted to successive crops of corn may naturally be expected to produce a stalk subject each year to a gradual lessening of strength. Add to this tendency to weakness, the injuries inflicted by

the corn root worm, in land on which corn has been continuously grown, and we have serious consequences.

A well planned crop rotation will serve the double purpose of recuperating the corn-producing powers of the soil and effecting the destruction of the corn root worm.

We are pleased to give to our readers some excerpts from a letter written by a friend who stands as an example of a successful farmer. Speaking of his pastures, he says:

Naturally the maintenance of a good sized herd of Short-horns has necessitated a large amount of pasture and about 65 per cent of my entire farm is in grass. I have about 150 acres in blue grass—the excellence of which you have frequently noted. This is permanent pasture and is top dressed with manure from the barn, mostly in the winter season, of course, the manure being taken direct from the barn daily and spread at once over the pasture. I keep these fine pastures in just this manner, seldom, if ever, plowing up a blue grass pasture.

The crop rotation practiced on this farm is one that has been worked out from practical experience, and on this point the gentleman says:

Each spring when I sow my oats I sow at the same time half and half each of timothy and clover—one peck to the acre. I then usually take off two crops of hay; first clover, next timothy, then two or three crops of corn and revert to grass again.

Our friend is one of the pioneers in the use of silage, and his remarks on the corn crop with the silo in view are of value. We therefore quote them in full:

Usually I farm 120 acres of corn. My silo holds 250 tons and the corn I intend to use for that I plant five kernels to the hill. On good land, with proper cultivation, twenty to twenty-five acres will fill the silo, leaving me around 100 acres of corn. By this method in use, my land grows as much corn to the acre as it would forty years ago and I have permanent pastures that I have used for thirty years. With the treatment they have had they seem to grow better each year. However, I am very careful not to overload the pastures, having long known that it is better to have enough grass for two, and pasture one on it.

The success of this man, in a plan of operations that is practical on the average farm of the country, is unqualified. It is doubtful if it has been equaled by any farmer who has devoted his attention to striking the high markets of the various farm products. The basis of all farm prosperity is the productive capacity of the soil. That method of farming is best which maintains or improves that condition. Hit or miss farming can do neither.

THOUSANDS PRAISE OFFER.

"I would not be without The Homestead for the price of the whole list contained in the Red Letter Subscription Offer and I am sure all of them are worth more than twice the money. I think The Homestead is the best farm paper published in the United States."

"I have been a subscriber to The Homestead for upwards of twenty years and make it a point to read it on Sundays. To the business man as well as to the farmer The Homestead is invaluable."

"I certainly cannot afford to be without The Homestead for the small amount it costs, especially as farming is getting to be more of a science."

"I could not get along without The Homestead. I consider it the best farm paper and also the best advertising medium printed."

"I have been reading The Homestead for so many years and cannot do without it, especially as it is getting better every year. The Red Letter Offer is splendid."

These are specimens of the letters of commendation which are pouring into the office by the thousand every week. The Red Letter Subscription Offer is taking the grain belt by storm. No better offer was ever made. It is simply this:

Remit \$1.50 to The Homestead, Des Moines, Iowa, and the following six splendid papers will be sent to your address one entire year: The Iowa Homestead, The Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and National Swine Magazine.

February, being a short month, did not have enough days to suit the auctioneers, and more than the usual number of March sales are being held.

PLANT MOLASSES CANE FOR FORAGE.

The conditions of the present winter have given many a stockman the care of his life. Tens of thousands of men all over the corn belt had planned on using their cornstalks for roughage during at least three months of the winter, only to find that they were in the predicament of not having their corn husked out and consequently could not use their fields. They have, therefore, been feeding roughage all winter, not only to the cattle they are trying to finish, but also to the stock cattle and as a result you can buy grain almost as cheap per ton as hay. Nothing will help us over the pinch this year, but the experience ought to be a lesson to most of us. We must have more roughage. One of our subscribers strongly endorses the use of sugar or molasses cane. This is what he says:

I believe it is a good plan for the farmer to plant some molasses cane for a feed for cows and horses in the winter. While it may be a little harder on the land than the ordinary crops, it is claimed that one shock of molasses cane is equal to four shocks of common corn fodder as a feed for milk cows or horses.

I visited one farmer who was using the molasses cane during the winter. He also had some corn fodder. He told me that he had tested the two feeds, and that he had found one shock of cane equal to four or five of fodder, the shocks of cane and fodder being sixteen hills square. He also said that his stock liked the cane better and would even chew up all the stalks. The stock kept in better flesh while using the cane. The cane had been cut when the seed had begun to ripen and the stalks were still green.

Some farmers sow the cane seed broadcast and cut it with a mowing machine just before the cane heads out. One farmer who does this year after year told me that he had hauled the dried cane to his barn lot and ricked it as if it were hay. His cows, horses and sheep almost lived on this feed during the winter. As this farmer handled a great number of sheep, he found the cane a most excellent feed for them. So I believe it will pay the farmer to plant some cane seed for a forage crop on a few acres of land each year.

We strongly endorse the sentiments expressed in this communication. While cane is a southern crop, it has been found practical to grow it as far north as the Canadian line. It is not

advisable, however, to sow it until the soil has become well warmed up. After that, growth is very rapid and under ordinary conditions the yield is very large. We have in mind one case where cane produced twenty-three tons of green fodder per acre, and this when cured weighed out a little better than eight tons per acre. That of course is an enormous yield and yet it is not more than a good soil will produce on an average year. It will not only produce a large yield but it is one of the best crops in the whole list for smothering out weeds. If a soil is stirred occasionally during April and May and cane is seeded about the first of June, it will practically destroy any perennial plant like quack-grass, thistles or morning-glories that we are troubled with. No man can go too far in saying good things about cane as a forage crop.

SOWING CLOVER IN PASTURES.

The following communication has been received from an Illinois subscriber, Mr. O. F. Taylor:

There is a constant drain of fertility from permanent pastures and how to meet this drain and at the same time get the benefit of the pasture is one of the farm problems. I have made some experiments with clover in that direction that may possibly be of interest. About twelve years ago grubworms badly injured the blue grass in a small pasture I have for horse and cow. I gave it a light sowing of medium red clover about the 10th of March. It happened to be one of those years that clover catches if any seed is sown. The clover on that blue grass lot that year was the surprise of the neighborhood. I pastured the lot as usual and filled a good-sized mow with clover hay from it which was cut where patches were not eaten down. Since then I have sowed some clover on this patch nearly every year. I have never got such results as from the first sowing until last year, but I always got some clover and sometimes a good deal. I had been sowing medium red. In the winter of 1907 and 1908 I sowed alsike. Again it happened to be one of the extra good clover years. On quite a little of the lot I had a good stand. In the season of 1909 I pastured the lot as usual and could have cut a pretty good crop of hay in addition from much of it. My experience has been that in dry seasons clover sown on this blue grass sod would not do very much, but would improve pasture enough to pay for seed and sowing. In moister seasons it would do much better and in very fa-

vorable seasons on much of the ground the stand would be good. The growth is small the first year and unless examined with care little clover will be seen. I have never sowed more than one-fourth as much seed as would usually be sowed on wheat ground. I think if the blue grass sod were harrowed or disked lightly late in the fall and a bushel of seed to five or six acres sown much better results than I have got would be secured. The lot is a hill side sloping to the south and west, a tenacious clay on limestone, the limestone coming close to the surface.

There is no question but what the amount of forage can be greatly increased on an old sod-bound blue grass pasture by sowing some red clover in the spring in the manner described by Mr. Taylor. Our experiment stations strongly endorse this plan and manufacturers of drills have so recognized the necessity for supplementing pastures in this way that they have fitted their drills with special attachments for sowing clover on sod ground. Where a drill with these attachments is not available the ordinary disk may be used to very great advantage. Even a harrow will sometimes tear the surface enough to give a seed a strong start, and will in no sense injure the grass.

TILE THE LOW PLACES.

An Illinois subscriber sends the following communication:

I never realized the value of tile draining until one day a farmer whom I was visiting took me out to a field, a part of which he had tiled. He pointed out the lowland that was almost always saturated with water, and he said: "That piece of ground was practically worthless until I tiled it. This year it produced thirty bushels of wheat to the acre."

Then I came to the conclusion that it pays to drain the low places by tiling when there is no overflow. If soil is saturated with water at all times, it is practically worthless for producing a crop of any description. Wet soils are cold and lifeless, and it will pay the farmer to tile such soil if thereby he can make it productive. The first year's crop will more than pay the expense of tiling.

Too much cannot be said in favor of tile draining land that is at all inclined to be sour on account of an excessive moisture. There are thousands of farms in the central West that by no means need thorough tiling, but their productive capacity would be

greatly increased by a few lines of tile in the low spots with an occasional lateral skirting the hillside. It was our privilege in 1909 to make a close study of many fields that were tiled the year before, which tiling was badly needed. About one year in three this land produced a fair crop and two years out of three the seed was scarcely returned. In 1909 this land produced seventy-six bushels of corn per acre on part of the area, and fifty bushels of oats per acre on the balance. The oat ground was seeded down and we have never seen a more perfect stand of clover and timothy, and the nearer one approached the line of tile the more vigorous was the stand.

We have said before, and we expect to repeat it many times in the columns of this paper, that if there is ever a case where a man is justified in straining his credit to the sticking place, that case has to do with the tiling out of land. When one can borrow money at anywhere from 6 to 8 per cent, he is not using the foresight that nature intended him to use when he wastes his time trying to crop wet land, particularly so, if there is anything like a satisfactory outlet for the water.

PIG-EATING SOW.

The following communication has been received from a subscriber at Creston, Iowa:

I had three sows farrow last week and every one of them ate their pigs. I had the pens well bedded and the sows were kept in separate pens. I have a number of other sows and I would like to ask your advice as to how to handle these so that I would not have this experience with the balance of the herd.

There are tens of thousands of little pigs lost in the central West every spring in this way, and yet in our opinion it can be prevented if the matter is taken in time. The unnatural appetite that causes a sow to eat her pigs is caused by the feeding of a ration that is not properly balanced. We have never known a sow to have this appetite if fed for at least two months before farrowing on a mixed ration such as oats, bran and corn; corn and oil meal; or corn and tankage, or mill feed and corn, half and half, or any other good common-sense mixture of grain. On the other hand, we have known many instances where sows fed too heavily on corn have acquired this habit and of course when a sow once acquires it she is not a profitable animal to keep over another year.

If we had a bunch of sows and we found that the first ones to farrow had this appetite we would without delay take drastic measures to satisfy their cravings. Possibly tankage will do it quicker than any other food, though oil meal is fairly satisfactory. We would by no means feed brood sows all the oil meal or all the tankage they could consume, but we would start in on about half a pound a day and gradually increase it until they were getting a pound or even two pounds. This would be for sows that are to farrow in a week or two, but if one had a bunch of sows that were not due to farrow for a month or six weeks they could gradually be shifted from a corn ration to one composed of say one part of tankage to ten or twelve parts of corn, or one part of oil meal to eight or ten parts of corn.

There are some who use the old-fashioned plan of feeding sows "salt pork" and as a matter of fact there is something in that theory, but salt pork just at the present time is rather high in price so that for a large number of sows it would be somewhat expensive to use it. We wouldn't hesitate to use it, however, for sows within a week of farrowing if we had reason to believe that they would follow the example of the sows that did eat their pigs.

The government has its own troubles. No sooner has it decided what is whisky than it is confronted with the question, "Is a hen a bird?" Upon the solution of this question much depends, for birds' eggs are free of duty. An importer has appealed to the treasury to say whether "eggs" at five cents a dozen is not contradicted by the placing of "birds' eggs" on the free list.



Imported by H. LEFEBURE, Fairfax, Ia.

IMPORTED PRIZE-WINNING BELGIAN STALLION OWNED BY MR. HENRY LEFEBURE, AT FAIRFAX, IOWA. SEE ADVERTISEMENT ON PAGE 61.

WHEN MEAT EATING WAS UNLAWFUL.

Few people are aware that a law once existed in England absolutely prohibiting the common people from eating meat. The purpose of the law was to conserve the meat supply for the nobles. The law was passed by the English Parliament in 1336, under Edward III., and is given by the historian, Froude, as follows:

Whereas, heretofore through the excessive and over-many sorts of costly meats which the people of this realm have used more than elsewhere, many mischiefs have happened to the people of this realm; for the great men by these excesses have been sore grieved, and the lesser people, who only endeavor to imitate the great ones in such sorts of meats, are much impoverished, whereby they are not able to aid themselves nor their liege lord in time of need as they ought; and many other evils have happened, as well to their souls as their bodies; our lord, the king, desiring the common profit as well of the great men as of the common people of his realm, and considering the evils, grievances and mischiefs aforesaid, by the common assent of the prelates, earls, barons and other nobles of his said realm, and of the commons of the same realm, hath ordained and established that no man, of what estate or condition soever he shall be, shall cause himself to be served, in his house or elsewhere, at dinner, meal or supper, or at any other time, with more than two courses, and each mess of two sorts of victuals at the utmost, be it flesh or fish, with the common sorts of pottage, without sauce or any other sort of victuals. And if any man choose to have sauce for his mess he may, provided it be not made at great cost; and if fish or flesh to be mixed therein, it shall be of two sorts only at the utmost, either fish or flesh, and shall stand instead of a mess, except only on the principal feasts of the year, on which days every man may be served with three courses at the utmost, after manner aforesaid.

The good people of America who recently entered into an ill-advised meat boycott would consider themselves the most abused and outraged people in the world if a law were passed depriving them of the meat which they gave up voluntarily. They would never for a moment, simply in order to secure for themselves a reduction in the high cost of living, listen to a return of the days when such a law was in effect.

The fact of the matter is that the standards of living have been raised so high that the conditions of today cannot with justice be compared with the conditions of yesterday. It is no argument against forty-cent butter and fifty-cent eggs to call attention to the fact that fifteen or twenty years ago these staple articles of diet were selling for only one-half what they sell for today. Wages, salaries and profits were also less. It would be as logical to call attention to the fact that in the reign of King Edward III. meat sold for a few pence a pound, overlooking the fact that a few pence then had the purchasing power of several dollars today and that the people were so downtrodden and overruled that they were by law refused permission to eat meat.

PRESIDENT STORMS RESIGNS.

During the past week the resignation of Dr. A. B. Storms, president of the Iowa College of Agriculture and Mechanic Arts, was received and accepted. Dr. Storms has been president for seven years. His successor will not take office until the first of September, entering upon the work of the new year. President Storms has not made public his plans for the future, but it is highly probable that he will return to the ministry, in which work he has won a high reputation.

Dr. Storms was born in Michigan in 1860 and now, in his fiftieth year, is in the very prime of his life. He was graduated from the University of Michigan in 1884 and in 1893 took his master's degree. He was called to the ministry of the Methodist Episcopal church and occupied various charges in Michigan until he became pastor of the First Methodist church of Madison, Wis., where he remained eight years, becoming familiar with university work. In 1900 he became pastor of the First Methodist church of Des Moines, leaving this charge in 1903 to accept the Ames presidency.

Dr. Storms is a man of high ideals and practical ideas, and during his incumbency the Iowa State College has prospered and progressed. No public opinion is assigned for his resignation, but it is taken, as conviction on the part of Dr. Storm, that he can accomplish greater good in the ministry.

He is a forceful, eloquent speaker, carrying conviction with every word. It is a foregone conclusion that in whatever business he engages Dr. Storms will become a dominant figure. He is one of the men of the grain belt who are big in body and in brain, and to whom the grain belt looks for great things in the years to come.

KEEPING BOYS AND GIRLS ON THE FARM.

The argument that the boys' and girls' interest in the farm will be awakened and maintained by allowing them to feel a sense of proprietorship is borne out by an actual incident reported from Kansas City. One of the daily newspapers states that a middle-aged woman went into a clothing store, followed by two robust boys of about twelve years of age. The woman told a clerk she wanted to buy some clothing for the boys. The clerk began laying out various patterns of cheap grades, but none of them appealed to the woman or to the boys. Each sample was carefully inspected by the woman, who laid them all aside again without so much as inquiring the price, until she came to a blue serge. The price mark read \$20. A look of interest now lighted up the woman's features. The rest of the story is best told by the newspaper reporter, as follows:

"How do you like this one, boys?" she asked.

"Just the stuff, ma," they said.

"Now, madam, we have that same thing in a little better quality," from the clerk. He took a few more blue serge samples from the case and placed them on the counter before the three.

"What's the price of this?" she asked, holding one of the coats up toward the light.

"Twenty-three fifty, but if you take two of them I'll make it forty-six even. Now what else for the boys? Shoes?"

"Yes, fit them up with something pretty heavy that will stand the wear. These boys are so hard on their shoes."

After the clerk had added up the bill,

which, besides the two suits, included two pairs of shoes, two hats and two shirts, the total was \$58.40.

"Well, boys, you have fifteen cents left for candy," the mother said. "You see, clerk, the boys' father had two little runt pigs that he thought would sure die, so he gave them to the boys to raise. They sold these pigs yesterday."

"Boys, if you hadn't cut off their tails for markers you would have had enough money to get you a fancy vest apiece," the clerk said.

This story might be duplicated in practically every section of the grain belt if parents adopted the liberal policy of allowing their boys and girls to have a certain tract of land or a certain animal as their own. One of the best prizes offered in any corn contest the past year was won by a school boy whose father had allowed him a half-acre of ground on which to experiment. The lad surpassed his father in the yield of corn and carried away one of the prizes for which many adult farmers were competing. Many a boy has paid the expenses of a trip to the city, has added to his well-thumbed library or has secured some long-desired treasure, while many a girl has found herself able to buy some knick-knack or personal adornment, through his or her efforts in bringing to market condition hogs or poultry which had been given them to raise or by tilling to the best of their efforts some tract of ground, however small. When a majority of the farmers of the grain belt come to realize that no better way can be devised to keep the boys and girls on the farm than this system of letting them have their own ground or animals and the profits therefrom to spend exactly as they want, one of the most serious and far-reaching of the problems of the grain belt will have been solved. It does not cost the farmer anything and it pleases the boy and girl and awakens a proprietary interest in the homestead which otherwise would be hard to develop. It is a good investment and one which brings large returns, both directly and indirectly.

Methods of Farm Advertising

By J. Clyde Marquis, Madison, Wis.

ADVERTISING is now recognized as an essential part of the management of a successful, up-to-date farm. In the days of the self-sufficing agriculture there was little need of publicity since commercial methods were not followed by farmers. With the growing competition in the production of farm crops, live stock, etc., some well recognized method of disseminating information relative to what a certain farm has for sale must be adopted by every successful farm manager.

An important need for advertising by the young farmer is in establishing a reputation and gaining a patronage. He must, of course, first, have the article to sell and the means for distributing it before he can expect to conduct an advertising campaign. Many fail to get results from advertising because they do not take into consideration that the advertising simply attracts the attention and calls the inquiry from the prospective buyer and that making the sale is a subsequent process for which the advertising is seldom responsible. Of course, there is one type of advertising which is designed to make sales and not merely attract inquiries, but its usefulness is limited and confined to a short period.

When the various methods of advertising which the farmer may practice are classified they fall roughly into (1) local, (2) circulating, (3) periodicals and (4) shows and exhibits.

Local advertising may well begin with the roadside billboard. An attractive board fitted with a sash to protect the notices from the weather furnishes a cheap and effective method of gaining the attention of those who pass the farm. Its usefulness is limited, however, since only those who who pass the place are reached and usually these same people may be reached by neighborhood news which is quite as effective. The farmer who lives upon an important highway in the vicinity of a large city will find such a billboard, costing only \$5 to

\$10, an excellent publicity servant provided he keeps up-to-date notices upon it of the crops, seed, stock, etc., which he may have for sale.

The attractive advertising upon an envelope or letter head is a matter of great importance and should not be overlooked by any farmer since it costs so little. A good illustration that actually illustrates, showing yield of farm of a selected specimen of live stock or grain is valuable. A poor illustration and stock cuts should be carefully avoided. Make your letter head exclusive, showing stock which reflects your standard in farming. Do not use too much printers' ink, confine yourself to facts which will be of interest to your purchaser. Your letter head is a personal representative. Your prospective customer will size you up by your letter head the same as he will measure you by your personal appearance should you meet him face to face.

What has been said of letter heads, also holds true of catalogs. The main things are quality and accuracy, incorporating only such facts as are of interest to the deal, leaving out superlative adjectives which always arouse doubt in the mind of the prospective buyer.

The fields of periodical advertising is extensive and is a subject worthy of attention of the brightest minds, since fundamental principles of advertising in the periodicals are by no means established. Laying aside the largest display advertising placed to attract farmers, some of them already dealers in live stock, seeds or other farm products, we merely wish to emphasize the value of the smaller advertising which is generally known as the classified advertising to the average farmer. The advantage of periodical advertising is that you place yourself before an immense audience. If you had a quantity of a new and improved seed for sale imagine what an opportunity it would give you to have assembled in one room 10,000 farmers who in one way or another are interested in such seed. If you could stand

upon a platform and tell those men in two or three sentences what you had for sale, you will not deny that it would be a great opportunity and worth considerable cost.

This is just what you do when you place an advertisement in an agricultural paper which has a circulation which may aggregate 50,000 or more readers. Not all of these readers are interested in your product, but if it is a matter of general importance such as improved seed corn, one-tenth or possibly one-twelfth of this list may be interested in what you have to sell. It is therefore worth something for you to put your products before this large number of potential buyers. A small advertisement offers this advantage at a minimum rate and such classified advertisements are being closely studied by the readers of our agricultural papers. Of course the farmer or breeder who is in a well-established business should use larger space but the beginner should move slowly, using tried methods and encourage himself with the results which are sure to come from proper advertising. The agricultural journals will give the best results in this connection, although the local newspaper is important in many cases.

Advertising the exhibits at fairs and shows is of special importance to the breeder of live stock. Whatever may be said to the contrary a first prize ribbon is worth many times the cash prize that goes with it in the publicity which it gets for the breeder. His appearance at a show or fair commands the attention of other breeders and the public in general. He is likely to get favorable mention in the press. Many breeders study the premium lists and his name is noted there.

People are attracted by those things that look desirable. They pass by those things that are commonplace and ordinary and are always interested in something which is a little better than the average or perhaps appears so only. It has long been recognized that an animal in finished show shape stands a better chance in the ring than one which may possibly have more real merit, but is unkempt, rough and shaggy. It takes just the finished touch to give an indication of superiority. Improvement of appearances may well begin at home upon the farm. Well-kept buildings, trimmed trees, mowed lawns, painted fences and a hundred other little things will make your place look ship-shape. By selecting exhibits carefully, putting in only a few of the best, leaving out the mediocre, you may greatly improve the appearance of your display at a show. Far better to exhibit but a few selected animals rather than a large number of lower average. The farmer is now beginning to appreciate and to search for quality.

Be prepared to follow up your advertising in various ways with carefully prepared replies to all inquiries. The advertisements in the periodicals sometimes attract your customer. You must make the sale through your correspondence or by visitation. Take time to do these things right as it is as much a part of your business as tilling your fields or caring for your stock.

Finally in the trite phrase which is so often used by advertisers, "Keep everlastingly at it." Face your campaign conservatively so that you may keep yourself continually before the people. Arrange your farm production so that you have sufficient quantity of salable products to attract continuous sales. I have yet to see a sale-conducted advertising campaign fail since farmers are the most susceptible of good advertising of any class of people. It may well be said that there are three rules, which the advertiser must keep constantly in mind—first, quality, second, quality, third, quality. —(Address before Wisconsin Agricultural Experiment Association, February, 1910.)

THE VALUE OF GOOD SEED.

(Continued from page 3.)

to the minimum. A good way to keep up the temperature during the test period is to place your germinating box on top of a barrel and then put a lighted lantern in the barrel.

AGRICULTURE IN THE SOUTH

Conditions are Vastly Improved, says E. N. Bailey, as Result of Recent Visit to that Interesting Region, but There Still Remain Vast and Untried Possibilities for the Progressive Farmer

IT MAY be of interest to write a few impressions on the Southland. It has been six years since I was here before and our trip in which we stopped at Vicksburg, Natchez and Baton Rouge has proven to me that agriculture in the South has improved greatly in that time. It is a revelation to a corn-belt man to be in a state where some crop can be planted every month in the year and some other one harvested each month in the year.

The boll weevil has driven many negroes away because they cannot make a living here where cotton is the only thing they know how to raise, but last year demonstrated that something else must be done, and rice and corn will take its place this year to a large extent; rice, when it can be overflowed, and corn on the drier lands. For a long distance before reaching Vicksburg we were in the delta, as flat as the champaigns of Illinois, and soil as rich as the famed inundated lands of the Nile, but the need is just the same as in Illinois, Missouri and Iowa: drainage.

A few have begun to tile these lands and the results have been phenomenal. Overflowed each year or two to the depth of a few inches, the fertility will never decrease, and thousands of acres covered with a heavy growth of timber can be bought at prices that would make a northern man incredulous. The uplands and "hummock" lands are not so good, and the bane of the country is washing. The face of Nature on all rolling lands is seamed and gouged and scarred like the Bad Lands of the Dakotas, only on a smaller scale.

The negro and the mule are the motive power here of all agriculture. While I have seen hundreds at work in the fields cutting down the cotton stalks and piling them to burn, or plowing for the spring crop, I have not seen a single white man working in a field since leaving Illinois.

I have not seen a "bull tongue" plow, either, most of them using a one-horse plow, but many were plowing with a double plow and two mules. There are more evidences of prosperity along the Mississippi bottom lands than any place I have ever seen in the South.

A native Louisianian cannot see why any one should live where the preparations and the fuel for winter consumes nearly half the year's revenue, but when the negro is expected to do all the labor, and to do it voluntarily, and the white man simply does the thinking and the managing, a favored few succeed in living an ideal life. But the negro must farm the land while the white man farms the negro, and it is a good thing for the negro that this is true, for the best friend he has is the white man of the South. The negro must live whether he works or not and the white man must keep him or make the conditions so he can keep himself.

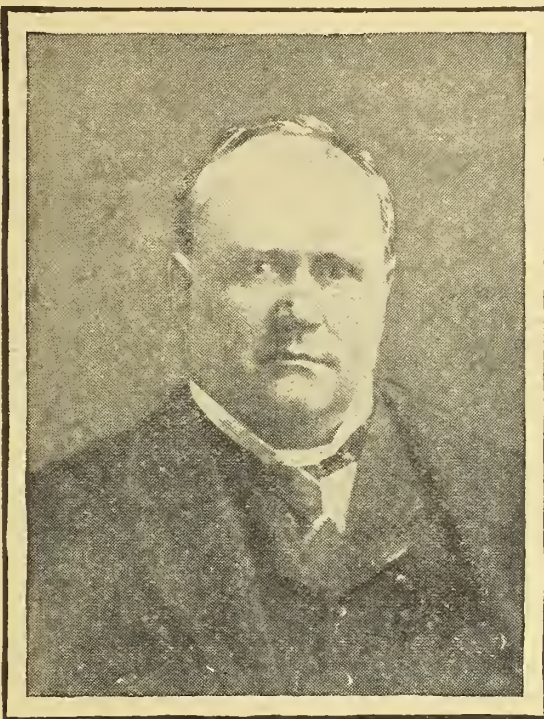
Whenever a negro shows any disposition to make money for himself he becomes wealthy. Any man can become well off in the South who will work or attend strictly to business and see that his crops are put in and attended as they should be. It is a land of splendid opportunities and Nature has spread her bounties with a lavish hand. Louisiana voted more money for public schools last year, according to population and wealth, than any state in the Union, and has fine schools in the city and town all over the state.

Forty car loads of tomatoes were shipped from one small town one day last summer and it was not an uncommon occurrence.

Horticulture is not what it should be and might be in the South. Apples, peaches, plums, and lemons and oranges in some parts could be raised profitably and a market found for all at good prices.

Potatoes grown for an early northern market could also be grown profitably in ten times the quantities that they are at present. Over in Texas they are improving these opportunities on lands no better and very much farther from market.

When one sees the grass going to waste along the railroad he wonders why more cattle are not raised, when land is so cheap and fencing so cheap, too. The cattle in the South all look healthy and in good condition, but little care is apparent in breeding or raising



E. N. BAILEY,

The grain-belt humorist and philosopher who is now making an inspection tour of the South.

anything but scrubs. There are some places in Louisiana where they are beginning to raise good cattle and while the conditions are not so good as in the North, yet there is a fortune for any man in cattle in the South who will stick to the business.

Hogs do well in the South and with the corn they can raise they could, with this industry, become rivals of Iowa or Missouri, yet it is claimed that no more than one-half the pork consumed

by the people in Louisiana is raised in the state. New Orleans is the winter Paris of America, the famous Mardi Gras is celebrated each year, and the winter running racing annually calls hundreds of horses and men here from all parts.

The Panama canal is looked on as something that will greatly benefit the city. It is, and always must be, the gate city of the Mississippi valley for southern egress, for, on the broad bosom of the noblest of all rivers might float the commerce of the world, and while the railroads from all sections center in New Orleans, her docks are the scene of activity every week in the year. It is here that the banana, the lemons and limes are unloaded from the boats and piled into the gigantic warehouses or into the cars that go from here, sometimes twenty train loads a day.

A scene on the wharf, with its myriads of negroes and acres of cotton bales, lumber, shingles, etc., is one long to be remembered. There have been great changes in the city of New Orleans in six years, as well as in the country. One of these is the amount of the old rock paving that has been removed and superseded with asphalt and the many new hotels betoken remarkable growth and prosperity.

Some of the northern line steamboat companies operating on the Mississippi river are going to substitute Italians and Greeks for their negro roustabouts this season, believing that they will prove cheaper and steadier workers.

With the passing of the negro roustabout or deck hand will go the last picturesque feature of the days of river navigation. The first to go was the long, feathered stacks of the big liners, which were replaced by squat affairs resembling a stove pipe that would go under the bridges.

Then came the lighthouses at bad crossings, the elimination of jutting snags and the electric searchlight. With the advent of these safeguards to navigation the glory of the kid-gloved, lynx-eyed steersman vanished, and he became a common river man.

"Anybody can steer a boat when he has the marks to go by and a headlight shooting a mile down the river," said an old pilot, disconsolately. "It's like driving a nag along a hedge lane. Time was when a pilot had to know the river himself, and he got paid for knowing it."

The aids to navigation have made the captain a bigger man than the pilot, which is against river tradition.

Next, the iconoclasts dumped the broad-hatted, oily gambler into the river for the catfishes, and placed so low a limit on the lawful ante that it was more fun to play checkers and dominoes.

To follow these distressing things by the banishment of the negro roustabout and his soulful song will be turning the Father of Waters into a cemetery. You can't write river stories or make songs about people whose lingo you don't understand.

The man who has never made a trip down the Mississippi river in the real steamboat days has lost a page of life that would have contributed to his love of country. Closely woven with the poetry of the voyage was the brawny negro deckhand, and right behind him the masterful mate, with his hair trigger profanity dynamo.

The factor for agricultural improvement in the South from which the most is expected is undoubtedly the farmers' co-operative demonstration work of the bureau of plant industry, department of agriculture. This work is being carried on quite extensively among the southern farmers, and enables the farmer to demonstrate to himself by actual trial that the better methods of cultivation recommended will prove an economic success. The work briefly outlined is this:

Generally the work is done by co-operation between the agents of the Farmers' Co-operative Demonstration Work and the school authorities of the county and state. The county is usually organized by interesting the county superintendent of public education, who enlists the teachers in the work, and so, through the co-operation of the superintendent, the teacher, and the agent of the department at



A TYPICAL SOUTHERN SCENE.

The cotton belt depends almost wholly on the negro to solve its labor problem.

(Continued on page 40).

The Log and Plank Drags

By D. Ward King

TWO mistakes are commonly made in constructing a drag. The first lies in making it too heavy. It should be so light that one man can easily lift it. Besides, a light drag responds more readily to various methods of hitching and to the shifting of the position and weight of the operator. A drag can be made heavier at any time by proper weighting.

The other mistake is in the use of squared timbers, instead of those with sharp edges, whereby the cutting effect of sharp edges is lost and the drag is permitted to glide over instead of to equalize the irregularities in the surface of the road. These mistakes are due partly to badly drawn illustrations and plans of drags which have occasionally appeared in newspapers and partly to the erroneous idea that it is necessary that a large amount of earth shall be moved at one time.

A dry red cedar log is the best material for a drag. Red elm and

rest in the angle between the slab and the end stake.

A strip of iron about three and one-half feet long, three or four inches wide and one-quarter of an inch thick may be used for the blade. This should be attached to the front slab, so that it will be one-half inch below the lower edge of the slab at the ditch end, while the end of the iron toward the middle of the road should be flush with the edge of the slab. The bolts holding the blade in place should have flat heads and the holes to receive them should be countersunk.

If the face of the log stands plumb it is well to wedge out the lower edge of the blade with a three-cornered strip of wood to give it a set like the bit of a plane.

A platform of inch boards held together by three cleats should be placed on the stakes between the slabs. These boards should be spaced at least an inch apart to allow any earth that may heap up and fall over the front slab to sift through upon the road

the blade end of the log shall slant forward when the other end is perpendicular. The construction of the drag in this case is the same as given above, but care must be taken that the holes bored to receive the stakes are plumb. No wedging under the lower edge of the blade is necessary in using such a log.

Drags are often constructed of planks instead of logs. There is nothing in the construction of a plank drag that calls for particular mention except the strengthening of the planks along their middle line by a 2x6-inch strip. A triangular strip may be used under the lower edge of the blade to give it the proper cutting slope.—(From Farmers' Bulletin.)

DIVIDING UP THE FARMS.

To the Editor of The Homestead:

In looking over a recent issue of your paper I noted an article from the pen of President Schurman, of Cornell University, the falsity of which is apparent in its perusal. I am aware that it is almost sacrilegious for an old hayseed to come up against such great men, yet when they get too far from the actual facts I think they need calling down. He tells us that the population is increasing and that the consumption of farm products is increasing in a greater ratio than production. Granted. Then he says that it is costing more to produce articles for consumption than formerly. Then he tells us why, and right there he has struck a rock. He says, for example, "Look at the subject of beef; cattle were formerly raised on the great plains in vast numbers, thereby making them plenty and consequently cheap." This is also true and this very thing was destructive to the average farmer; he could not compete with the ranchmen of the West and make a living at it. He tells us more and more the future cattle will be supplied to the market from small herds owned by farmers, and that in the transition from the great ranches to the smaller farms we will be at a standstill, as it were, until the smaller farmers get into business. Now this is also true, and it is also true that the destruction of the great herds on the plains has been the salvation of the common farmers, as cattle could be raised on the ranches at a nominal cost and put upon the market in such numbers that it made prices no ordinary farmer could meet. And as farmers, we are glad that those days have past and gone forever. Now by reason of these things, he tells us, we have high prices, and as a remedy he seems to advocate still smaller farms

man and how he can live on almost nothing. Yes, we know all about that, too. Ireland and its peasants are a matter of history and it won't down. And this man of wisdom advocates dividing the farms into three, five or ten-acre tracts and making farmers out of the city chaps, etc. Now what kind of farmers would they make and what great amount of beef or pork would they be able to put on the market to help the "demand and supply" business out? About how many cattle can be raised on the three, five or ten-acre tracts at best? Now, if the great western ranchman made cheap beef and the division of those ranches make beef dear, what will be the result if we divide up more? I think it will result in making everything, especially live stock, dear. To be sure, if every one should turn farmer and raise his own produce we would be in company with our foreign brothers and just make a living—a thing that seems very desirable by some of our city and college bred people. Yes, stay on the farm, boys. That's the cry, but what do the advocates of this cry do? Do they go to the farm? Not by a millsite. The farmers are paying from \$30 to \$40 per month and board. Do the advocates of "stay on the farm" want a job? Not much. They want to farm the farmer and that is just what they are doing. If you wish to know where the high cost of living comes in, just investigate a butcher shop in your own city or town; go through it properly and you will find where the extra cost of beef comes in. He will tell you about the choice, the top of the market price in Chicago, but do we get any of that stuff? Not if they know themselves. Old cows and heifers at from two and one-fourth cents to three cents from the farmer; you know their prices.

The fact of the matter seems to me to be a mania for big profits all around. Everything seems to be on wheels and by the looks of things they are fairly greased. The farmer will still have to look on and see the free performance of the show, and if Professor Schurman has his way we will not be able to even do that. It is quite true that there are some farmers working more land than they can properly handle, but if the poor town and city people would get out onto the farms and go to work instead of loafing half or more of their time, and yelping "hard times," they could help make times better. No ordinary farmer can get along on less than 160 acres and expect to make any more than a living. Of course we might all go to truck farming, but how about marketing the truck eight or ten miles from market? And again, if we divide up into five, ten or twenty-acre farms and all go to raising truck, where will the truck market go to? Some people advocate sending the young men to college to prepare them for farmers. Yes, we are trying that, but what is the result? Nine out of ten either become monstrous baseball players or come home and walk the streets as though they were superior beings of some kind. And if perchance one of them ever seeks the farm, and the old man will allow it, he will swamp him (the old man) with his high-toned, expensive ways that won't work out except on paper. It is a fine thing to have an education, but unless a young man educate himself for some special purpose or vocation, he loses more than half of his exertion or the benefit that might be derived from it. He must make a specialty of something and stay by it, but my advice is to leave farming out of his studies. If he has a great desire to make a farmer, let him go to some thorough-going farmer and take a course (a-straddle of a corn plow,) get into the barnyard and haul manure, and into the hog pen and dip the hogs for lice, and he will find a thousand more fine things to turn his hand to. Let him get right into the business and make it go (or he is done, too,) and then ask him about five and ten-acre fields or farms. No, Mr. Schurman, we are not ready for your truck farms. D. B. Harmon.

O'Brien county, Iowa.

There are many imitations. don't be fooled. There is no substitute. Tell the dealer you want a Lewis Single Binder cigar.

Ask your neighbor to subscribe for The Homestead.

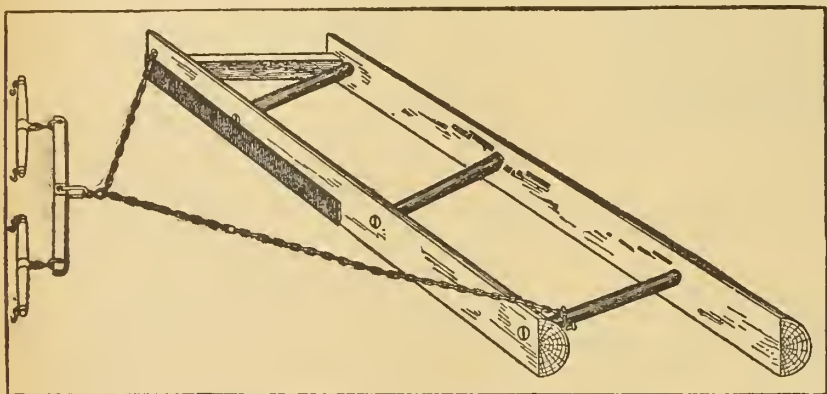


FIG. 1. PERSPECTIVE VIEW OF SPLIT LOG DRAG.

walnut when thoroughly dried are excellent, and box elder, soft maple, or even willow are preferable to oak, hickory, or ash.

The log should be seven or eight feet long and from ten to twelve inches in diameter, and carefully split down the middle. The heaviest and best slab should be selected for the front. At a point on this front slab four inches from the end that is to be at the middle of the road locate the center of the hole to receive a cross stake and twenty-two inches from the other end of the front slab locate the center for another cross stake. The hole for the middle stake will lie on a line connecting and halfway between the other two. The back slab should now be placed in position behind the other.

From the end which is to be at the middle of the road measure twenty inches for the center of the cross stake, and six inches from the other end locate the center of the outside stake. Find the center of the middle hole as before. When these holes are brought opposite each other, one end of the back slab will lie sixteen inches nearer the center of the roadway than the front one, giving what is known as "set back." The holes should be two inches in diameter. Care must be taken to hold the auger plumb in boring these holes in order that the stakes shall fit properly. The hole to receive the forward end of the chain should be bored at the same time.

The two slabs should be held thirty inches apart by the stakes. Straight-grained timber should be selected for the stakes, so that each stake shall fit snugly into the two-inch hole when the two slabs are in the proper position. The stakes should taper gradually toward the ends. There should be no shoulder at the point where the stakes enter the slab. The stakes should be fastened in place by wedges only.

When the stakes have been placed in position and tightly wedged, a brace two inches thick and four inches wide should be placed diagonally to them at the ditch end, as shown in figure one. The brace should be dropped on the front slab, so that its edge shall lie within an inch of the ground, while the other end should

again. The end cleats should be placed so that they will not rest upon the cross stakes, but drop inside them, while the middle cleat can be shifted to either side of the middle stake. These cleats should extend about an inch beyond the finished width of the platform.

An ordinary trace chain is strong enough to draw the implement, provided the clevis is not fastened through a link. The chain should be wrapped around the rear stake, then passed over the front slab. Raising

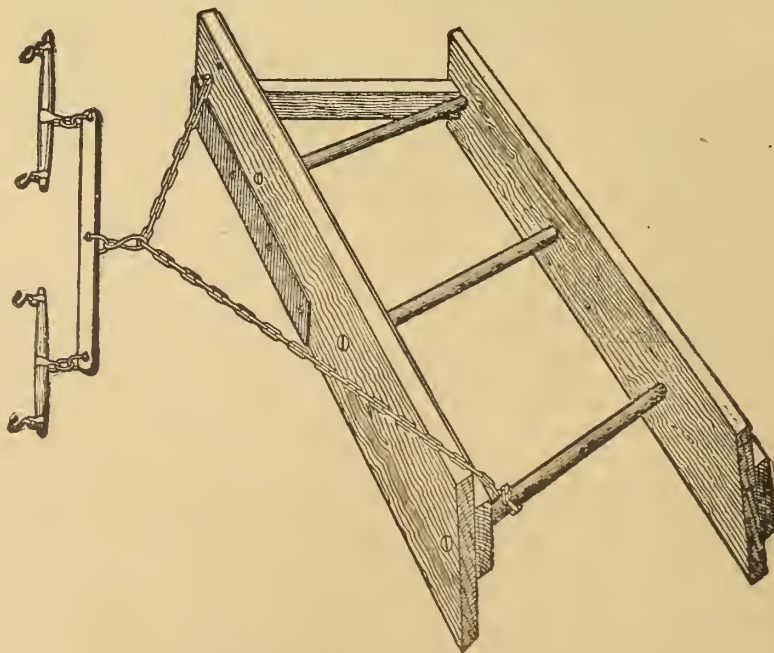


FIG. 2. PERSPECTIVE VIEW OF PLANK DRAG.

the chain at this end of the slab allows the earth to drift past the face of the drag. The other end of the chain should be passed through the hole in the end of the slab and is held by a pin passed through a link. One and one-half trace chains are sufficient.

In many logs the grain runs around the tree in such a way that when split the slabs will be in a "wind." If this wind is not more than four inches in eight feet, the timber can be used to good advantage by setting it so that

and cites us to an engineer out in Idaho who is making a fine living on an acre of land. He tells us that the day seems not far distant when the grain belt farmers will learn the lesson taught by European farmers and as a great encouragement he cites us to the German farmer (average) in that Fatherland, who is able to make such a splendid living on one-twentieth the amount of ground. Yes, we know about the splendor of barely a living on the very coarsest of food! He tells us of the transplanted Irish-

FARM FURROWS

Turned By a Practical Farmer

The neighbor across the fence concluded to try something different a few years ago, and so bought a fertilizer attachment for his planter and used commercial fertilizer on several acres of his corn. I watched the experiment with interest all through the season. At first the fertilized corn grew away from the other, but the unfertilized came in even on the home stretch. The neighbor figured that he hardly got pay for hauling the fertilizer out from town, to say nothing of getting back the purchase price.

The idea that a part of the weight of a machine must be carried at the neck of the team is obsolete. For years the self binder proved galling on the horses' necks and shoulders, all on account of the neck weight. Tongue trucks have eliminated that. I consider the greatest tool value I ever got was in the tongue trucks that cost \$12.50 extra when I bought a new binder.

The stealing of chickens has been made a penitentiary offense in many states, which is a good thing. Of all thieves, the stealer of chickens is the most despicable, for chickens are usually the product of a woman's care and worry, and it is stealing from the women to take them. If given the chance, I would antedate the penitentiary with a shotgun and I would not be particular about aiming below the knees, either.

There are now two thinkers in the land, one who thinks the price of good corn belt soil is too high, the other who thinks the top has not yet been reached. I am inclined to lend my thoughts to the idea that the top has not yet been reached, for it is only a matter of time until this country will become as Europe now is, a country of great population and small farms. They tell me land in sections of Europe is valued at \$1,000 an acre, and it is farmed, too.

Spring is not far off. This is an undisputed fact, for the women are trading roosters and eggs (over the phone) and the congressmen are helping along the postal deficit by loading the mails down with worthless seeds. In all, twenty packages came to this household, all "new and untried" varieties. I am not so sure the seeds are new, and as to their being untried, I am sure they will remain so as far as I am concerned.

The largest ear of corn that I have heard from this year has been reported by Mr. A. E. Proctor, of Cass county, Iowa. It is twelve inches long, eight and one-half inches in circumference, and produced 1,536 kernels.

CHANGE THE VIBRATION. It Makes for Health.

A man tried leaving off meat, potatoes, coffee, etc., and adopted a breakfast of fruit, Grape-nuts with cream, some crisp toast and a cup of Postum.

His health began to improve at once for the reason that a meat eater will reach a place once in a while where his system seems to become clogged and the machinery doesn't work smoothly.

A change of this kind puts aside food of low nutritive value and takes up food and drink of the highest value, already partly digested and capable of being quickly changed into good, rich blood and strong tissue.

A most valuable feature of Grape-Nuts is the natural phosphate of potash grown in the grains from which it is made. This is the element which transforms albumen in the body into the soft gray substance which fills brain and nerve centers.

A few days' use of Grape-Nuts will give one a degree of nervous strength well worth a trial.

Look in pkgs. for the little book, "The Road to Wellville." "There's a Reason."

In this connection I will give the boys under twelve years old a little problem in mathematics: How many kernels of corn would be produced if each one from this year were planted and yielded an ear similar in character to the parent ear?

Some men are so afraid someone will get the better of them in a business deal they would walk around wearing a lightning rod were they to believe it would offer them any protection.

There are all sorts of hole diggers on the market, but for an all-purpose tool, give me a round pointed tile spade, with a sixteen-inch blade. Well sharpened and scoured, a live man can take it and make a badger ashamed of himself.

Last fall I kept the corn binder going a half day longer than my original intentions. You may be sure there are now no regrets because of it—and no fodder to burn.

Spring rains demand a good roof. Between now and the first of May is when the old style hay shed used to souse the stock. I got away from hay sheds just as soon as I was able, but I notice a few who are able to afford better who still stick to them.

The man who misses sowing grass seed "on the last snow" will find that sowing it during a rainstorm answers just as well. In either case the seed is carried into the soil with the moisture, but I would sow only Kentucky blue grass and white clover in this way. Other grasses need deeper covering.

When every tenth word spoken by father is a cuss word, it is unreasonable to expect the children to grow up well versed in the use of polite language, and polite language only. There are times when just a little strong language seems to accurately fit the circumstances, but I do not like to hear it then if children are about. A good thing about the machine that takes the place of a hired hand is that machinery doesn't cuss.

There are many chances for wastes on the farm, among which is stacking hay outside, and not doing a very good job of it at that. Sometimes a wind storm undoes a good job and throws the body of the stack open to damages. A hay barn is a great blessing.

What is called scientific farming is an educator and a paying proposition to those who are in position to practice it but to a great many it is about like placing a fifth reader in the hands of a boy when he first enters the schoolroom and expect him to master it from the start.

While some farmers are tearing down fences that divide their fields, others are building more. I have a neighbor who has in mind to keep everlastingly at it until his three-quarter section farm is fenced hog-tight. His idea is, when the crops have been harvested, to turn his hogs loose for the farm run.

There is more than one kind of rut that the farmer or anyone else is liable to get into. One of these, thinking the same thoughts day after day, will result in narrow mindedness. Reading the best papers and books and visiting neighbors is a good way to get out of the thinking rut and the one who would be happy will find a way to do both.

Last week a renter said this to me: "I find a man should work a farm one year before he understands it, and knows how to handle it to the best advantage." A mighty good idea for the believer in a one-term lease to catch and keep.

The fight for repealing the present oleo law is on at Washington. It

might be well for everyone who is interested in the dairy industry to find out what their representatives are doing.

In casting over yearly accounts in my mind, last evening, I came to the conclusion the most profitable acres on the farm for the season of 1909 was a plot of corn that was "hogged down" by a bunch of shoats. It gave them such a start they were marketed at an earlier age and a greater weight than any that have left the farm in years.

There is more than one way to look at the question of how to use the farm's earnings, but I cannot keep from admiring the business sense of the farmer who uses a good portion to improve his farm and make his family and his stock comfortable. That man is making a wiser investment than to give the use of the money to another for a low rate of interest.

It seems to be a pleasure for some men to work when the weather is so disagreeable that neighbors around him will not take a team from the barn. Afterwards, they will brag how disagreeable they were, but the thought of getting ahead of someone else lures them to repeat the perform-

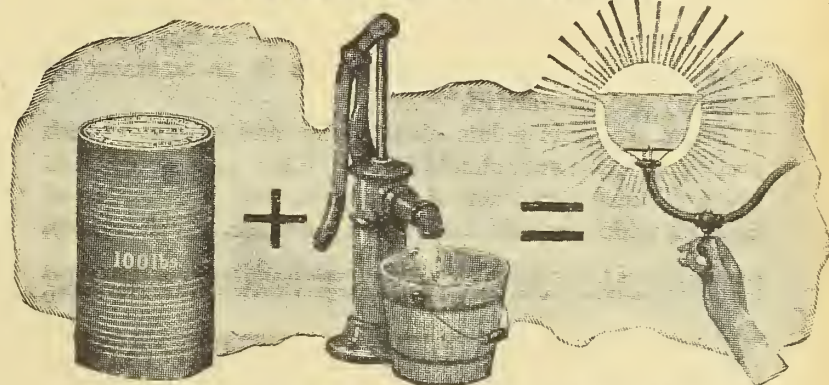
ance again and again. I will not be a party to this kind of rivalry.

The day laborer of the city feels that he is getting too much of the bitter along with the sweet, just now. The city does not keep him and the farm calls for more help. If the city laborer feels that the farm is the place and that the farmer is getting more than his share, why does he not make back to the country?

It takes progress to make a good neighborhood. When a man travels through a neighborhood of "stick in the muds" he can tell it by appearances; when he comes out of such a neighborhood into one of dragged roads, hay barns and well-kept buildings and farms, he knows without being told that a good class of people live there, and he finds himself placing a high valuation on the farm land there. Queer how loud some things talk that do not talk at all.

It is poor policy to lose by scant feeding all you have gained all winter, in the last days of the feeding period. We all need a longer pasture season, but I am sure it could not be long enough for some, to prevent a "spring-poor" condition.

A Problem Solved



Home Made Gas Light From Crushed Stone and Water

VOLUME for volume, this rural gas actually gives twelve times more light than the best city gas.

Like city gas, it is used in handsome brass or bronze chandeliers and fixtures of endless variety.

A simple twist of the wrist turns on a brilliant flood of light in any room in the house day or night.

It has already driven the oil lamp, with its grease, smoke and smell, out of more than 176,000 town and suburban homes.

Takes some member of every one of these 176,000 homes fifteen minutes once a month to make all the gas the household can use.

The magic is all in the wonderful gas-producing stone.

This stone is manufactured in huge electric furnaces, in a temperature of over 6,000 degrees Fahrenheit.

When ready to use it looks and feels like crushed granite and is then known as Union Carbide.

Union Carbide is packed at the factory in sheet steel cans in which it may be kept for years and is distributed through warehouses located all over the country.

In these packages it is safer to handle and store than common coal, as it will not burn and can't explode.

The gas which this wonderful stone yields is genuine Acetylene.

And Acetylene, carried in iron pipes to ornamental fixtures, burns with a soft, brilliant, pure white light.

On account of its color, it is the easiest of all lights on the eyes, and it is a boon to those afflicted with eye strain troubles.

It is not poisonous and one might sleep all night in a room with an open burner without harm. For these reasons it is used extensively as an illuminant in hospitals, factories, mines, lighthouses and government army posts.

To produce Acetylene it is only necessary to mix Union Carbide with plain water in a small tank-like machine that is usually set in one corner of the basement.

The formula is simple and the work can be handled by most any school boy.

Once a month he must fill the little machine with Union Carbide—the machine does the rest—it makes gas only when the lights are burning and stops making gas when they are turned off.

Anybody that can cut and fit pipes can install the generator, pipes and fixtures in two days without injuring walls or floors.

With such an installation you can make this glorious beautifying light in your own home for less money than same amount of light from kerosene would cost.

If you happen to live in the country, you can do as thousands of farmers have done—run the gas pipes to lights placed on your porches, in your horse and cow barn, or even in your barn yard, and have all of them fixed up to light with the pull of a chain attached to the fixture.

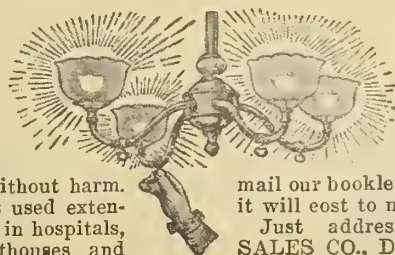
Such a lighting scheme is not only a boon to the housewife and children, but it's a mighty handy convenience for the man of the house when he must do his chores after dark, or when he is called out in the night to attend a sick animal.

All these lights will be permanently fastened to ceilings, walls or posts, and enclosed in tight globes.

For this reason they are many times safer than lamps or lanterns that are so often tipped over with disastrous results.

Write us today how many rooms you have. Then we can mail our booklets and tell you how little it will cost to make this light yourself.

Just address UNION CARBIDE SALES CO., Dept. B — 33 Adams St., Chicago, Ill.



A Good Citizen Should Use Good Paint



Y keeping his house and other buildings well painted the owner sets an excellent example to the neighborhood and to his family. Strangers look upon such a place with pleasure. They remember it when they pass that way again. "The boys" take a feeling of pride in their attractive

home and realize that no matter how costly another house may be it cannot be neater than the one in which they live. Thus a feeling of loyalty to the home is developed.

¶ Securing the best results in exterior and interior painting is simply a matter of using pure white lead ("Dutch Boy Painter" trade mark) and linseed oil. Paint made of these materials gives beauty and lasting protection to property.

¶ Paint made from inferior substitutes for pure white lead, soon fades, cracks, peels and blisters. It gives neither durable beauty nor adequate protection. The "Dutch Boy Painter" trade mark on the white lead you use is an assurance of economy and satisfaction.

¶ There are some points about paint and painting which every property-owner should know. They are brought out in our "Dutch Boy Paint Adviser No. 181," a collection of booklets which we will send free on request. Write today.

Our Pure White Lead ("Dutch Boy Painter" trade mark) is now packed in steel kegs, dark gun-metal finish, instead of in oak kegs as heretofore. Ask your dealer.

NATIONAL LEAD COMPANY

An office in each of the following cities:

New York Boston Buffalo Cincinnati Cleveland Chicago St. Louis
(John T. Lewis & Bros. Co., Philadelphia)
(National Lead & Oil Company, Pittsburgh)



Yes Sir! That's It

That's the trademark that makes you safe when you buy a gas or gasoline engine. You can buy with your eyes shut, if you buy an engine with this trademark on it. It means *Guaranteed Satisfaction*. It represents the height of gas engine building and the most perfect running engine built. It means a saving of many dollars to the buyer. We want to tell you why.



**"Send For Our Free Folder
How To Save \$50 to \$100"
On A Gasoline Engine**

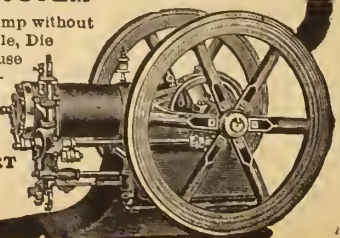
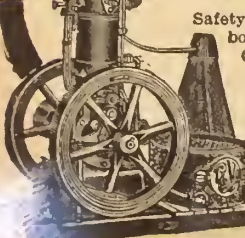
It contains some valuable information no other makers have ever published. Tells the truth about saving money when you buy a gasoline engine. Tells the reasons why

R & V Gasoline Engines

are the very best engines for the money. Why they run smoother—easier—last longer. Tells of exclusive and other valuable features such as **OUR NEW COOLING SYSTEM**

Safety Gasoline Reservoir; Gasoline Pump without bothersome stuffing box; Removable, Die Cast Babbitt Bearings. Why they use less gasoline, give more power—run themselves. A post card brings it promptly. Ask for **Folder No. 330.**

THE ROOT & VAN DERVOORT
ENGINEERING CO.
East Moline, Ill.



CURRENT EVENTS

THE administration's naval policy is coming in for criticism from Representative Tawney, chairman of the house committee on appropriations. Secretary of the Navy Meyer has announced his intention to build for the United States the largest battleship in the world, with a displacement of 32,000 tons. His naval program includes two battleships of 27,000 tons each, one repair ship, two colliers and five submarines for Pacific coast defense. Representative Tawney foresees bankruptcy of the government if such a program is adhered to, and charges a conspiracy of shipbuilding interests. "These interests," he says, "are even now getting ready to start another war scare, Japanese, German or otherwise, with a view to stimulating popular favor for an extravagant outlay for the navy." In this connection it is important to note that Leslie M. Shaw, former secretary of the treasury, declares that the money spent on new battleships is practically thrown away so long as the United States is not in a position to secure powder with which to carry on warfare. He declares that if every powder mill in the United States were to make powder twenty-four hours per day for thirty days, the product would last our present navy just two hours, so that in case of war "if every powder mill were to quit making sporting powder and blasting powder and were to work twenty-four hours per day for the government, we could fight just two hours every month." If Secretary Shaw's figures are right Representative Tawney is justified in his opposition. The movement for a big navy culminated in the Roosevelt administration and has heretofore met with a large degree of favor. The facts as to the powder equipment should be verified, as battleships without powder or men to operate them are absolutely worthless.

GIFFORD PINCHOT, on the witness stand in the Pinchot-Ballinger imbroglio, made serious charges against Secretary Ballinger's veracity and honesty. He bluntly asserted that Ballinger had lied in many of the statements he made to President Taft in regard to his conduct of the interior department. Mr. Pinchot declared that the conservation movement begun under the administration of President Roosevelt was progressing splendidly up to the time that President Taft and Secretary Ballinger came into office. He charged that in less than a month thereafter Secretary Ballinger had practically broken the backbone of the central idea of the conservation movement by restoring previously-withdrawn water-power sites to the public domain and laying them open to private appropriation and monopolistic control. Mr. Pinchot further declared that there is no such decision by the comptroller of the currency as President Taft cited in his letter to Secretary Ballinger, dismissing Glavis (whom Mr. Pinchot complimented as "a faithful public servant") from the service of the government. Mr. Pinchot was extremely vehement in his denunciation of Secretary Ballinger. Immediately following the hearing Mr. Ballinger gave out a statement denying the main charges of Pinchot, so that the controversy remains in as unsettled a state as formerly. In the meantime, however, President Taft is seeing to it that no entries are allowed on land immediately adjacent to important water-power sites, while the rights of the people are being preserved by forest and mineral reserves. An effort is being made to make political capital out of the Pinchot-Ballinger fuss, but President Taft is going ahead serenely, following out the Roosevelt plan to protect the people's interests.

ONE of the most serious mountain accidents in recent years occurred in the Coeur d'Alene mining district in northern Idaho, when an avalanche of snow struck two of the mining towns and practically wiped them out of existence. More than sixty lives were

lost, while the disaster would have been much greater had not a warning message been sent down the canyon in advance of the avalanche. The mineral deposits in this region are among the richest in the Northwest, one of the mines paying a monthly dividend of \$96,000. The region is celebrated in fiction and history and is picturesque in the extreme. Scattered along the canyon are several small mining camps, no one of which has a population of more than 200 or 300. Two of these were destroyed and of necessity the mines were short handed for several days, but the Northwest has a way of recovering from unfortunate disasters so that the mining industry was not seriously affected. The people had been warned of the danger, which was anticipated on account of the record-breaking fall of snow this winter, but because they had been secure for so many years they disregarded the warning, with disastrous results.

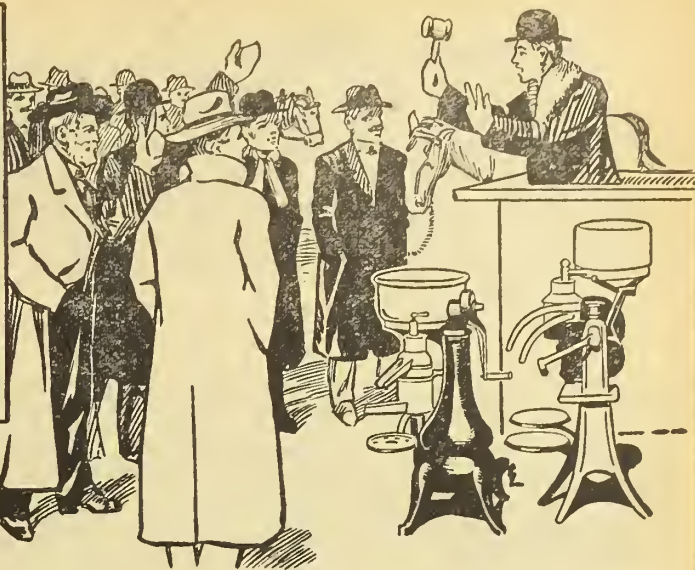
THE street car strike in Philadelphia has assumed more serious proportions. Unless it is speedily arbitrated, allied trades and industries will join in a sympathetic strike, possibly 100,000 men going out. The department stores and the leading retail houses have joined in a demand for arbitration, but the traction company remains obdurate. Unless something is speedily done business will be at a standstill in the City of Brotherly Love. The strike is the most far-reaching of any recent labor trouble.

SECRETARY WILSON took the witness stand and denied that he had given Gifford Pinchot permission to write Senator Dolliver the letter which resulted in Pinchot's dismissal. Secretary Wilson declared he had given Mr. Pinchot permission to write to Senator Dolliver concerning departmental affairs, but had never given him permission to write a letter criticizing the president of the United States. On cross examination the secretary pleaded poor memory as to most of the details of the Ballinger-Pinchot controversy, but asserted he was positive he had never been a party to any insubordination toward the president on the part of anyone in his department. It has been announced that Secretary Wilson may be drawn into this controversy in an embarrassing manner. Progress is being made slowly in the investigation, and so far it has resolved itself mainly into a question of veracity between Pinchot and Ballinger.

JAMES GORDON, who was United States Senator from Mississippi for sixty days and was succeeded by Leroy Percy, made a remarkable farewell speech in which he reviewed national history for the past half century as he had seen it written. He paid a remarkable tribute to his mother, saying that when he was only a small boy she told him that if he were industrious and honest he would come to occupy a high place in the councils of the nation. He declared that "she never had told me a lie and I knew that what she said was true. I knew that I would some day occupy the seat among the big men, and God helping me I got here." Senator Gordon likewise paid a tribute to the men in both the northern and southern armies in the civil war, saying: "You may as well try to storm the heights of heaven and pluck the diadem from Jehovah's crown as to take away from either of them any of the glory of the lots of the two men who stood under the trees at Appomattox and brought the war to a close." The senator is seventy-six years old and was appointed by the governor to fill out the unexpired term of the late Senator McLaurin.

The fenceless field is defenseless to roaming stock, but in other ways it is quite handy to have the fence away. The fence row, too often, is a propagator of weeds, which are not closely cut because it cannot be done with a machine.

WHAT A PUBLIC SALE PROVED



—ABOUT THE WONDERFUL NEW BUTTERFLY CREAM SEPARATOR

We print on this page a remarkable letter from one of the thousands of satisfied farmers to whom we have sold New Butterfly Cream Separators during the past four years. We actually make every machine we sell. We produce them right here in our own Chicago factory. We own and control all the exclusive patents on the New Butterfly Cream Separator in the leading dairy countries of the world. We own the factory buildings, grounds and equipment, and sell direct to you right from our factory at prices just a little above the factory cost. We ask you to read Mr. Collins' letter carefully, then we want you to take the time to see what else we say here about the New Butterfly Cream Separator.

WHEN MR. COLLINS PREPARED HIS AUCTION BILLS and among other things wrote, "For Sale —one New Butterfly Cream Separator," he probably thought that he would get considerably less money for the machine than he had paid us for it a year before. No doubt he would have felt satisfied to take \$30.00 or \$35.00 for the machine. The extra butter he made last year with the New Butterfly Cream Separator had already more than paid back to him the entire first cost of his machine. On the other hand, his neighbor who owned a \$100.00 agency machine undoubtedly expected to get at least \$60.00 at this sale for such a widely advertised piece of machinery. Considering the price paid, he had every reason to think that his separator would bring at least twice as much as the New Butterfly Cream Separator which Mr. Collins owned.

BUT THE NEIGHBORS KNEW CREAM SEPARATORS



\$14⁸⁵
AND
UP TO

\$46³⁰

**THIRTY DAYS'
FREE TRIAL**

**On Your Own
Farm
WRITE FOR
CATALOG**

READ MR. COLLINS' LETTER

Ansonia, Ohio.

Albough-Dover Co., Chicago, Ill.

Dear Sirs:—In the spring of 1909 I bought a cream separator of your people, called the New Butterfly No. 4 1-2, that cost me \$39.80. At my public sale it sold for \$50.00. My neighbor sold a Separator that cost him \$100.00 for \$21.25. These machines were both sold at my place and on the same day.

I could have sold three or four more of the New Butterfly machines. You can look for an order as soon as I get moved and need a cream separator. Will move to Camden, Ohio, the middle of February, 1910, so please send all mail to that place.

Yours very truly,

J. H. Collins.

They knew what they were really worth, and as the result, Mr. Collins tells you in his letter that the New Butterfly Cream Separator, which has been advertised by us but very little in the past, brought him \$10.20 more after a year's use than he paid us for the new machine and \$10.40 more than we ask you to pay us this year for the New Butterfly machine of the same size, direct from our factory. The other widely advertised cream separator sold under the hammer for \$78.00 less than the agency price. No better proof of the real value of the two machines could be given you than the record of this sale. Both machines were placed where all the neighbors could examine them carefully. They saw for themselves the way both machines were built and the kind of material used. They compared them closely in regard to ease of turning, simplicity of construction, convenience in cleaning and durability. In their opinion, the New Butterfly Separator was actually worth more than twice as much as the high priced agency machine.

THEY KNEW THAT THE NEW BUTTERFLY CREAM SEPARATOR SKIMS THE CLOSEST

—they knew that Mr. Collins always got all the cream. The patented aluminum skimming device used in every New Butterfly Cream Separator is owned and controlled exclusively by the Albough-Dover Company. Every drop of milk, from the time it enters the bowl at the top until it leaves the skim milk outlet at the bottom, receives from four to eight skimmings. That means, it is impossible for any cream to be left in the skim milk. The neighbors knew these things, and they knew that this one machine had paid for itself more quickly than any other cream separator in the neighborhood. And they were willing to pay \$50.00 to get the New Butterfly Cream Separator.

THEIR WIVES KNEW THAT THE NEW BUTTERFLY IS THE EASIEST TO CLEAN

We guarantee that no cream separator made today can be cleaned so quickly and thoroughly as the New Butterfly. In the first place, the New Butterfly skimming device is made of aluminum, the sanitary, easily cleaned, non-rusting metal to which butter fat and slime will not stick. But even if it were necessary to scrub the one-piece aluminum skimming device of the New Butterfly Cream Separator as you do the many different tin and tinned steel parts of other separators, this machine could still be cleaned more perfectly and quickly than any other. The aluminum blades are hinged at their inner edges, so that they may be spread apart like the leaves of a book, making it easy for you to clean them quickly and perfectly. Not only is the New Butterfly Cream Separator easily cleaned, but the milk and cream spouts are wide open and easy to wash, as shown in the illustration, instead of being closed pipe shape tubes, as used in other separators. Warm milk decomposes rapidly, and nothing will taint cream and butter so quickly as a foul smelling cream separator which cannot be kept clean. The neighbor's wives knew all these things, and that is another reason why the New Butterfly Cream Separator brought so much at Mr. Collins' public sale.

EVERYONE IN THE NEIGHBORHOOD KNEW that this was the easiest running machine, and those who attended the sale had an opportunity of trying the two machines side by side. They found that any ten-year-old boy or girl can run the New Butterfly Cream Separator without getting tired. They compared the way the two machines were built; they saw for themselves why the New Butterfly Cream Separator runs so easily. In the first place, all the gearing shafts are vertical and the lower end of each turns in a phosphor bronze socket on a frictionless pivot ball bearing, like the jeweled setting of a watch. Then, too, these bearings are always bathed in oil. They found also that the bowl and aluminum skimming device of the New Butterfly Cream Separator weigh less than 7 pounds, whereas the bowl and skimming device of the other separator weigh considerably more. They were willing to pay \$50.00 for such a light running cream separator. They could see for themselves how much better the New Butterfly Cream Separator is made. They could see from the quality of material used and the splendid workmanship throughout that the New Butterfly Cream Separator would undoubtedly last longer and they were satisfied to pay quite a little more than our factory price to you to get the New Butterfly Cream Separator that had been in constant use for one year.

WE WANT YOU TO KNOW that it is not necessary for you or any other man to pay \$100.00 this year for the best cream separator made. It is not even necessary for you to pay as much as \$50.00 for your machine. We build every New Butterfly Cream Separator in our own Chicago factory. We sell direct to you at prices from only \$14.85 up to \$46.30, according to the capacity of the machine you need. Write today and get our free catalog.

REDUCED 1910 PRICES.

No. 1	New Butterfly Junior Cream Separator. Capacity, 50 quarts of milk per hour.	\$14.85
No. 2	New Butterfly Junior Cream Separator. Capacity, 95 quarts of milk per hour.	\$18.90
No. 3	New Butterfly Junior Cream Separator. Capacity, 145 quarts of milk per hour.	\$23.95
No. 3 ¹	New Butterfly Cream Separator. Capacity, 170 to 195 quarts of milk per hour.	\$34.50
No. 4 ¹	New Butterfly Cream Separator. Capacity, 220 to 245 quarts of milk per hour.	\$39.60
No. 5 ¹	New Butterfly Cream Separator. Capacity, 270 to 295 quarts of milk per hour.	\$46.30

IF YOU HAVE EVER THOUGHT OF BUYING A CREAM SEPARATOR, or if you are dissatisfied with the machine which you now own, we want you to have a copy of our Free Book, which describes every one of these machines fully and tells you just which one you ought to buy to handle the milk from the number of cows you own. Write for it today and we will send it to you by return mail, free and postpaid.

Address
the Makers,

ALBAUGH-DOVER CO. [CAPITAL \$2,000,000]

2145 MARSHALL BLVD., CHICAGO, ILLINOIS

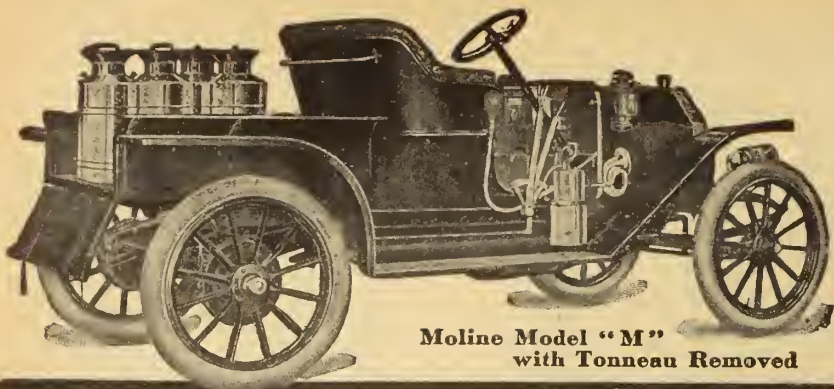
JUST FILL OUT THIS COUPON

or write us a post card or letter for our FREE CATALOG and send it to us right away. Even if you keep only one cow, it will pay you to have this book. Sending for it will only take a minute of your spare time but will surely save you many dollars in cash and years of disappointment. Fill out the coupon or write us now, before you forget about it.



DO
IT
NOW

CLIP ALONG THE DOTTED LINE
ALBAUGH-DOVER CO., Chicago, Ill.
Gentlemen:—Please send me by mail, postpaid, your Free 1910 Catalog of the New Butterfly Cream Separators.



Moline Model "M"
with Tonneau Removed

The Car for Farmers

The Perfect
Score

Moline

30 h.p. 4 cyl.
\$1500

There are a good many reasons why the Moline is the car for the farmer. Its removable tonneau makes it especially desirable. Can be quickly converted into a 2-passenger roadster, leaving a big rear platform for transporting milk, tools, grain, etc., from one part of the farm to another or to town.

Again, it is a dependable car. In the 1909 Glidden Tour it made the

2640 Miles Without a Flaw

proving its wonderful efficiency and dependability beyond all doubt.

Its big wheels, big tires, long wheel base, long springs, roomy seats, powerful engine and simplicity of mechanism have made it very popular with farmers. J. W. Southwick, Kalona, Iowa, writes:

"I am more than pleased with my Moline. Have not had a cent of repairs. There are seven Moline in my neighborhood all in the hands of inexperienced farmers like myself—all giving perfect satisfaction."

WRITE FOR CATALOG NO. 294

Don't buy until you hear what Moline users say about the low cost of up-keep—its hill climbing ability—its easy riding—control and great power and durability.



30
h. p.
4-Cyl.
Only
\$1500

Moline Automobile Co.
294 Root St., East Moline, Ill.
Standard Man'frs. A. M. C. M. A.

ONLY \$91.25

For My High Quality, Guaranteed
4½ H. P. Gasoline Engine

The Sensation of the Season is the
Caldwell Special Gasoline Engine

I sell my engine direct from factory and can save you from \$25 to \$100.

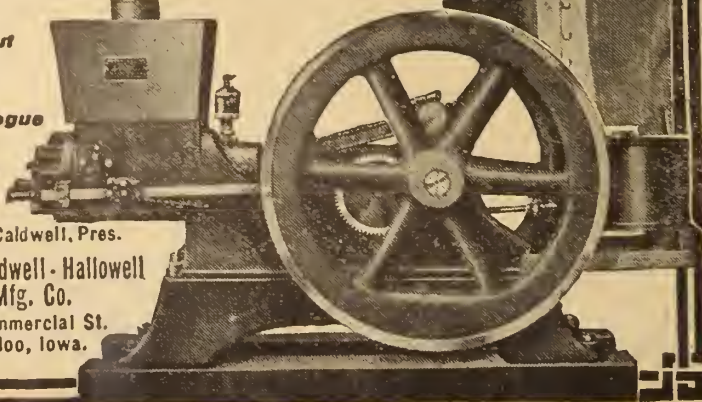
All I ask is for you to take the engine, try it free for sixty days on your own farm and if you are not fully satisfied with it, return it to me and I will pay freight charges both ways.

All my engines are well built, finely finished and guaranteed against defective material for five years. My engine is so simple that you will not have the least difficulty in starting and successfully operating it at all times. Write for my free catalogue; compare my engine with any or all engines you know of, then put my prices along side those of others and see for yourself what I can save you.

Write
without
fall
for
catalogue
and
price
list.

J. D. Caldwell, Pres.

The Caldwell-Hallowell
Mfg. Co.
507 Commercial St.
Waterloo, Iowa.



OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LIVE STOCK INSPECTION.

A valued subscriber at Wellman, Iowa, writes us for information as to the requirements of the laws of the several states about the health inspection of registered live stock which is shipped from one state to another.

Some of the states of the middle West have statutes requiring the inspection of live stock shipped into such states, which prescribe the time, place and manner of such inspection. For example, when live stock is brought into South Dakota from or through any state against which the governor of South Dakota has issued a proclamation of quarantine, such stock must be inspected by the state veterinary surgeon, and he must be notified by the person in charge of it, on its arrival, so that inspection can be made at once.

In North Dakota the law makes it the duty of any owner, agent or person in charge of any cattle, horses, mules, asses, sheep or other domestic animals, where such owner, agent or person in charge thereof intends to bring any such animals into the state for distribution, sale, transportation, or permanent location therein, without a certificate of health from a duly authorized veterinarian or examiner of the state from which such animals are shipped, to give notice in writing to the district veterinarian of the district of the state bordering on the state line, from which said animals are brought, at least three days before said animals are brought into the state beyond the quarantine station at the state line of such district, and the district veterinarian inspects such stock upon its arrival.

Some other states have merely established a general method of live-stock inspection to be carried out by state veterinarians, state live-stock sanitary boards, boards of live-stock commissioners, and the like, and have delegated to such veterinarians, boards and commissioners, power and authority to make all needful rules and regulations for the inspection of live stock. It will be readily understood, therefore, how inexpedient, and indeed impossible it would be to give in this department anything like a satisfactory exposition of the subject covering the middle West. The rules and regulations of the various, sanitary boards and commissioners can be had by application to the proper officer in each state: In Nebraska, the state veterinarian, at Lincoln; in Missouri, the state veterinary surgeon, at Columbia; in Illinois, the board of live stock commissioners, at Springfield; in Wisconsin, the state veterinarian, at Madison; in Minnesota, the state live stock sanitary board, at St. Paul.

LAW QUESTIONS CONSIDERED.

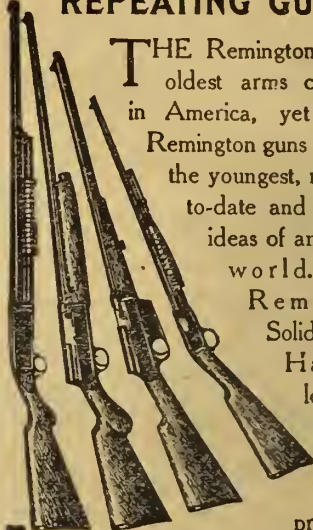
VERBAL LEASE FOR THREE YEARS
NOT BINDING.

An Iowa Subscriber.—A rented a farm from B for three years, the contract being a verbal one. B promised to build a hen house and a machine shed, fix up the dwelling house, place two car loads of tiling and furnish fencing. A promised to give B as rent, one-fourth of the grain raised the first year and one-third the following two years. During the first summer B sold the farm to C without making the improvements mentioned. A has not seen C nor made any agreement with him. (1) Can C recover rent from A without making the improvements promised by B? (2) If A pays the rent for the first year, can C put him off the place at the end of the second year?

Answer. (1) The leasing contract between A and B for three years, being a verbal one, is not binding on any of the parties. The law requires a lease for more than one year to be in writing and signed by the parties, in order to bind them. A having taken possession of the land as tenant and raised a crop can hold the land for the first year, and pay as

Remington

SOLID-BREECH, HAMMERLESS REPEATING GUNS



THE Remington is the oldest arms company in America, yet to-day Remington guns embody the youngest, most up-to-date and modern ideas of any in the world. The Remington Solid Breech Hammerless Idea does away with protruding

hammer and insures absolute safety.

The New Remington .22 Repeater

Put on the market Oct. 1, 1909. Don't buy a .22 till you see it. Shoots .22 short, long and long rifle cartridges.

The Remington Pump Gun,

Bottom ejection—6 shots.

The Remington Autoloading Gun,

Loads itself—5 shots.

The Remington Autoloading Rifle,

Loads itself—5 shots.

Get the modern gun of to-day—a Remington.

Send for complete catalogue.

THE REMINGTON ARMS COMPANY

Ilion, N. Y.

Agency, 315 Broadway, New York City

Whenever you see
an Arrow
Think of
Coca-Cola

The all the year round best beverage for all classes, ages and sexes.
Delicious—Wholesome
Thirst-Quenching
So Everywhere

The Coca Cola Girl Calendar for 1910

Send us 2c for postage and we will send you our beautiful 1910 Coca Cola Girl Calendar and our interesting booklet "The Truth About Coca-Cola". Tells all about Coca-Cola—what it is and why it is so delicious, wholesome and beneficial. It gives analyses made by scientists and chemists from coast to coast, proving its purity and wholesomeness. Your name and address on a postal will bring you the booklet by itself.

THE COCA COLA COMPANY, Atlanta, Ga.



THIS BALL-BEARING PITLESS SCALE

Guaranteed U. S. Standard
AT WHOLESALE PRICE

Let us save you \$25 to \$50 on the finest scale made. The ball-bearing principle alone doubles its value—gives a freedom of movement that prevents Binding and Clogging.

The only scale sold at wholesale price to farmers on 30 Days' Free Trial—on a full 10 years' guarantee. Requires no pit-digging, no wood except floor. Don't take the other fellow's weights.

Write for price, freight paid, free trial and guaranty. Use nearest address.

INDIANA PITLESS SCALE COMPANY

Box 15A, New Castle, Indiana

Department 15, Kansas City, Mo., Station A

Keep Turning
the Pages
Over Till You
Come To
Page 39

See
Galloway's
Big Ad
and send
him your
name.

rent the fourth of the grain raised, but cannot hold the place longer than the end of the first year, because the contract is not in writing. (2) C can compel A to vacate the premises at the end of the first year, for the reason stated, unless he permits A to enter upon the second year putting in a crop, in which case he can compel A to vacate at the end of the second year.

HOG-TIGHT PARTITION FENCE.

A Subscriber, Jewell, Iowa.—(1) A and B own adjoining farms for 160 rods. In 1902 A stretched a twenty-six-inch woven wire along the whole length of the division fence to make it tight. The entire fence is now in a bad condition, both as to wire and posts, and A wants a good fence built. Can A get pay for his woven wire or should he taken it down and request B to make half of a lawful tight partition fence? (2) A owns a large pasture and agreed to allow B to turn into it ten steers to pasture for the season at \$3.50 per head. At the end of the season only nine steers could be found. Must A bear the loss of the missing steer? (3) Can A recover pasture money for the nine steers?

Answer.—(1) As the woven wire was placed on the fence before the last fence law was passed, A can remove it. As to building a new partition fence, it would be well to have the fence viewers assign to each party the portion he is to build in the start. Then, as to making a tight fence of it, the late law provides as follows: "All partition fences may be made tight by the party desiring it, and when his portion is so completed and securely fastened to good, substantial posts set firmly in the ground not more than twenty feet apart, the adjoining property owner shall construct his portion in a like tight manner. The fence viewers may determine all controversies about such tight fences. The party who requests the fence viewers to act must advance their fees, but when they decide the controversy they fix the costs as seem to them just, and the other party may have to pay all, or some of the costs, as they determine.

OFFICER INTERESTED IN CONTRACT.

A Subscriber, Ponca, Neb.—A member of the school board of the independent district of Ponca is the agent of a fire insurance company, and he is writing the insurance on the school property. Has he a legal right to do this?

Answer.—The law provides that "it shall be unlawful for any member of the board of education to have any pecuniary interests either directly or indirectly, in any contract for the erection of schoolhouses, or for warming, ventilating, furnishing or repairing the same, or to be in any manner connected with the furnishing of supplies for the maintenance of the schools." We think that this law is broad enough to cover the case mentioned. The act referred to is certainly a violation of the spirit of the law, if not of its letter.

THE STANDARD OIL COMPANY.

A Subscriber, Havana, Neb.—(1) Does the law of Nebraska compel the Standard Oil Company to sell oil to farmers at the same price as to dealers, where farmers buy a barrel at a time, or in other large quantities? (2) Can the Standard Oil Company lawfully refuse to sell oil to farmers?

Answer.—The editor of this department is unable to find any such law in the statutes of Nebraska and is of the opinion that if such a law were passed by the legislature of a state, it would be declared invalid by the courts. (2) It can. The Standard Oil Company is a private corporation and cannot be compelled by law to make contracts with any particular class of persons.

REGISTRY OF STALLIONS.

A Subscriber, Pella, Iowa.—Please give me the law of Iowa concerning the registration of stallions, showing how and where I must register an imported stallion?

Answer.—The law provides that the owner or keeper of a stallion kept for public service, or kept for sale, exchange or transfer, who represents such animal to be pure bred, shall cause the same to be registered in some stud book recognized by the department of agriculture at Washington, D. C., and obtain a certificate of registration of such animal. He shall then forward the same to the secretary of the state board of agriculture of Iowa, whose duty shall be to examine and pass upon the correctness of such certificate. If such registration shall be found to be correct

and genuine, he shall issue a certificate which shall set forth the name, sex, age and color of the animal, and the volume and page of the stud book in which said animal is registered. The fee of the secretary is \$1. In keeping such animal for public service, the owner or keeper must place a copy of the certificate of the state board of agriculture on the door or stall of the stable where the animal is usually kept.

LAW OF THE ROAD.

An Iowa Subscriber.—(1) Suppose A and B are driving teams upon a public highway in Iowa, both going in the same direction, A being in advance, and B wishes to pass him, can B lawfully require A to pull out of the smooth track in order to let B pass? (2) What would their respective rights be if A

has a heavy load and B a light rig? (3) If B has a heavy load and A a light rig must A turn out of the smooth track, or if both have heavy loads? (4) In case A should be driving a team and B an automobile, would A have to turn out?

Answer to all questions.—When two teams, or one team and a motor vehicle, are on the public highway going in the same direction, one in advance of the other, there is no law requiring the foremost one to turn out of the smooth track while it is moving in the ordinary way, to let the other pass, no matter how they are loaded. There are doubtless occasions when common courtesy would move the foremost driver to turn out, but the law does not require it. If he stops in the road, he becomes an obstruc-

tion, and should turn out unless the stoppage is but momentary, because movement is the unwritten law of the road.

SNOW BLOCKADED ROAD.

A Subscriber, Neola, Iowa.—An east and west road runs along the north side of my hay meadow and it is blocked by snow. The farmers going back and forth from town let down my fences and go through the meadow. I allowed this to go on till it started to thaw, and they refuse to open the road and the travel is spoiling my meadow. The road could be opened in half a day if the neighboring farmers would help. Whose duty is it to open the road?

Answer.—It is the duty of the road superintendent to order out enough able-bodied men of his district to open this road. Right at the start, when



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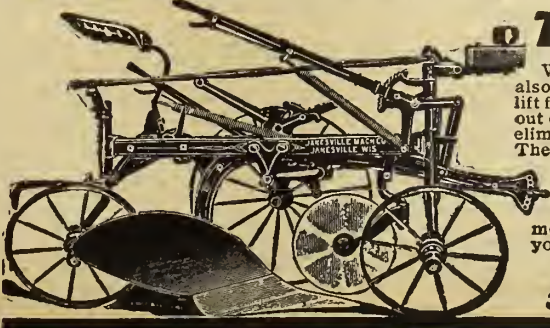
The Top Notch of Plow Value Investigate The Janesville

JUST send your name and address to get our interesting Free Book about the Janesville Sulky. We'll prove to you that it saves more work, time and money than any other plow made, in addition to putting the soil in the most perfect condition. You'll find so many convincing proofs of Janesville superiority that we feel sure you'll want to investigate further—to see the actual machine—to try it. Then you'll want the Janesville because it is the most economical plow made. Economizes money because it saves time and work—because it is the last to go for repairs—because it saves your horses. Economizes horses because it is lighter draft and every horse does the same amount of work. That's why the Janesville is the TOP NOTCH OF PLOW VALUE. Don't take our word—here's the record of the Janesville in actual field competition with most other makes: Cyrus S. Stark won the Gold Medal and the title of Champion Plowman of the World with a Janesville. It was the Janesville that swept the boards at Big Rock, Ill., on Sept. 25th, 1909. Soil conditions were about as bad as they could possibly be, but the Janesville won first and Sweepstakes prize—awarded for best work of all plows entered in all classes. Second and third prizes in same contest. Two first premiums and one second premium in sulky-plow class. Second premium in gang-plow class.

The Janesville Books Free

We want to tell you more about these contests—the Janesville plows that won them; also about the Janesville features that make them world-beaters. The foot-trip horse-lift for instance. Simply trip the "lift" with your foot and the horses pull the plow bottom out of the furrow. The point of the plow bottom always goes in and comes out first—eliminating the pull against center. Absolute control of plow bottom at any position. There are many other reasons why the Janesville is the plow for you. That's why we want to send you our book. We also make the famous Janesville Walking Plows, Riding or Walking Cultivators, Disk Cultivators, Disk Harrows and Corn Planters. We will be glad to send you all the Janesville books you request. We will also tell you the dealer in your locality who can show you the Janesville Implement. But write now for the Sulky Plow book and any of the other Janesville books you are interested in. Address postal or letter to

THE JANESVILLE MACHINE CO.
31 Center Street
JANESVILLE, WISCONSIN



the road was suddenly blocked by snow, the farmers had a right to let down your fences and go through your meadow, but that right does not continue beyond such reasonable time as the road can be cleared. After such time they have no right to continue to go through your meadow, and you can treat every one of them as a trespasser who does so.

PEDIGREE PAPERS.

A Subscriber, Cedar Bluffs, Neb.—(1) A has a farm near a railroad and the section man keeps chickens which run over the farm and do damage to crops. What remedy has A? (2) A bought some cattle at a Short-horn sale, and the seller of the cattle said that pedigree papers would be given for every animal sold. A got such papers with all the cattle he bought except one and can get papers for that one by paying for them. Who should pay for such papers?

Answer.—(1) The only legal remedy A has is to sue the owner of the chickens for damages. There may be other remedies, but they are not strictly legal ones, though sometimes resorted to by people who are pestered by the fowls of others. (2) It is the duty of the seller of the animal to furnish the pedigree papers as he agreed to do, without cost to the buyer. If he fails to do so, the buyer can sue him and recover damages, but, after all, the easiest and cheapest way is to pay for them, as it is such a small matter.

LEGAL HOLIDAYS—HIRED MAN.

A Subscriber, Eldora, Iowa.—(1) What are the legal holidays in Iowa? (2) I claim that a man working on a farm by the month can collect wages extra for such days as Thanksgiving Day, New Year's Day, Decoration Day and the Fourth of July. Am I correct?

Answer.—(1) Sunday, the first day of January, the twelfth day of February, the twenty-second day of February, the thirtieth day of May, the fourth day of July, the first Monday in September, the twenty-fifth day of December, the day of general election, and any day appointed or recommended by the governor of the state, or by the president of the United States, as a day of fasting or thanksgiving. (2) Such days are regarded by the law as holidays for all purposes relating to the presentation for payment or acceptance, and for the protesting or giving notice or the dishonor of bills of exchange, drafts, bank checks, orders and promissory notes, but not for other purposes. They do not concern contracts for labor and a man who works by the month cannot collect extra pay for working on such days, unless there is an express agreement to that effect, or a well-established custom to that effect, generally recognized and understood. Such hired man is not required to work on Sunday, not because it is a holiday, but because it is Sunday.

UNSATISFACTORY CONTRACT.

A Subscriber, Davis City, Iowa.—A and B are an elderly couple living in Iowa. They are quite old, but able to be around and do their own work. They are in good financial circumstances and have seven children. Five years ago their niece, a single woman of advanced years, named C, came to live with them under a contract which was afterwards put in writing and signed by B and C, to the effect that C was to have a home and board with the family as long as the parties could agree. C helping B with the housework, but to receive no pay for her services except the home and board for herself. C is greedy and avaricious in her disposition and keeps accounts of all work she does, and often does unnecessary work, keeping strict accounts of it, and otherwise acts in a way that convinces B that she is fixing up an itemized claim for her services, to be brought up perhaps against the estate when B and A are gone. Can C recover judgment for her services when the estate is administered?

Answer.—If B preserves the written contract mentioned, so that it can be found, C cannot recover for her services, but the better way is for B to now cancel the contract by telling C they can no longer agree, and turn her out, while B is alive, and thus end the whole unsatisfactory arrangement at once, meanwhile keeping possession of the written contract.

FERTILIZING CLOVER BY MACHINERY.

The invention of an Indiana man, James M. Dennis, of Cambridge City, promises to effect a wonderful increase in the annual clover seed crop, says the Indianapolis News. Mr. Dennis has perfected a machine which, he says, will practically insure fertiliza-

tion of blossoms and the consequent "setting" of seeds. Tests have been made of the machine and wherever used it has trebled the yield of seed.

It is a well-known fact to all agriculturists that clover pollen must be conveyed from plant to plant through the agency of insects, particularly the bumblebee. Unlike the pollen of corn, wheat and oats, clover pollen is too heavy to make fertilization by means of wind a possibility. The bee is the real dependence of the farmer when it comes to distributing clover and producing seed.

In recent years, however, clover seed crops have been decreasing. Various causes have been assigned, but most experts admit that the cause is due to the decrease in the number of bees. But even were the bees as numerous as in the past, there are seasons when, because of long periods of rain, the busy little agents are unable to operate. Under such conditions the clover seed crop is very likely to be a failure.

Mr. Dennis' machine, it is said, prevents this failure. It insures a distribution of pollen under all conditions. And from seventy-five to one hundred acres may be fertilized in one season with one machine.

Mr. Dennis, the patentee, some two

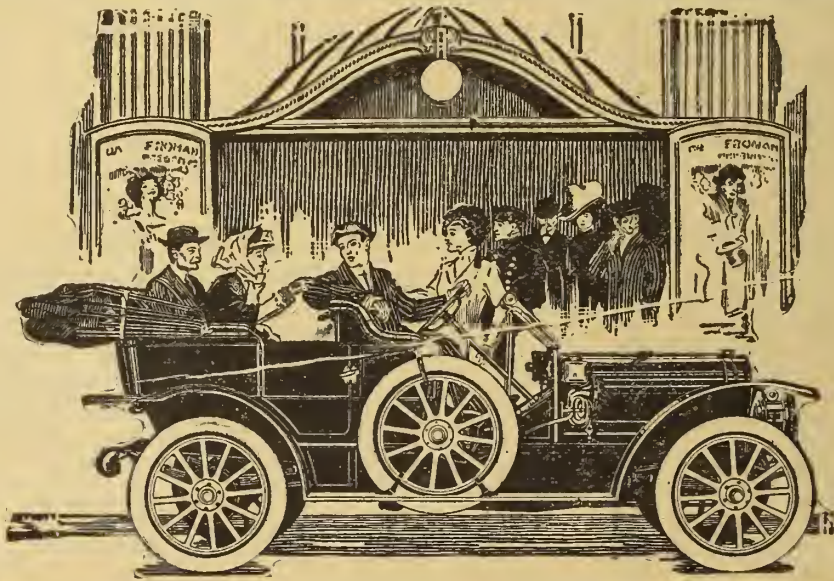
years ago, while reading a report of what the government was doing to increase the clover seed crops, conceived the idea that clover could be fertilized by mechanical means, that the pollen could be agitated, gathered and distributed in such a way that every head could be fertilized and, hence produce seed. He finally worked out his idea in detail and the machine is the result. A brush comes in contact with the clover; it is in fact a patent bumblebee. The clover head is a composite flower made up of a number of individual stems or flowers, each one of which should produce one seed. The myriad number of small points of the brush which strike the clover work upon the same principle as the bee. These points are vulcanized with a solution of pure rubber gum, enabling them to gather and distribute pollen in each little flower more effectively. The machine is so constructed that with each revolution of the drive wheel the frame is raised and lowered four times, each drop being a direct one. The length of the brush is six feet and wide enough so each head of clover receives one stroke of the brush, and several vibrations (as the brush is suspended by steel springs) by passing over it once with the machine.

The year 1909 has been near a complete failure as to clover seed in Indiana. The drouth of 1908 impaired the crop together with a late spring in 1909. However, tests with the machine have shown the following results:

A ten-acre field near Cambridge City, Ind., was selected, one-half of which was pollenized with the machine on Aug. 2d and Aug. 9th. The other half of the field not pollenized made 228 pounds of seed or forty-five and three-fifths pounds an acre of inferior quality seed. The side that was pollenized was partially drowned out and a small amount grew up in wild grasses, so there were only three acres to hull on this, which made 501 pounds of seed, or 167 pounds an acre of first quality seed. Two grain sacks filled alike from the huller showed a difference in weight of twenty-six pounds in favor of the pollenized seed.

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was the pioneer car on the farm, most farmers know more of its adaptability to their use. With offset crank-shaft, straight line-drive, big wheels and tires, long wheel base, Spare Wheel and other exclusive features, it's the standard car for farm use. It's built for country roads.

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Cutting the Width of the Highway



In Order to Ascertain the Views of Homestead Readers Concerning the Practicability of Reducing the Width of the Highway, as Suggested Recently by the Governor of Iowa, this Topic was Submitted a Few Weeks Ago for General Discussion. Upward of 100 Responses have been Received and of these 63 have Expressed Themselves Against the Introduction of the General Policy of Cutting the Width of the Highway, while 53 are in Favor of it. A Few Contributions on this Topic have been Selected for Use at this Time and Follow:



C. E., Pocahontas Co., Iowa:—I think it is a very good idea to cut down the width of the road, for in my opinion there is entirely too much good Iowa land devoted to roads. There is no need of it and it is used only to grow unsightly weeds which spread their seeds all over the neighboring farms, with only a small strip in the center being used for a road. I think if the width of the land used for highways were not so great, and better care taken of the roadside, we would have better roads to some extent. We can never have good and serviceable roads in our locality, however, as long as the old practice of grading up is followed, namely, plowing it up on both sides in a low place, scraping up the dirt in a ridge in the center, leaving a ditch on either side where water is allowed to stand and soak into the grade, and making the grade muddy and soft nearly all the year round. Summing up my thoughts on the road problem I would say to narrow down the roads some, grade up the low places by taking dirt from the higher places, provide outlet for water from road and keep the grader at work a little more, not on a strip four feet wide from both sides of the center, but from the sides of the right of way, making a gradual slope to either side, with ditches for water to run off in. To make it better yet, try to get an underground drainage where it is possible to do so, for in my opinion drainage is the only remedy for the roads in this part of Pocahontas county where we have no gravel or sand to put on the roads. Another reason why I believe that we ought to make the roads a little narrower is that there is a lot of high-priced land throughout the whole state of Iowa that is only producing a crop of weeds when it could be returned to the farm and made to raise a bountiful crop, thus enriching both the farmer and the consumer—the farmer would get a little more ground to raise crops on and consequently would have a little more to sell and there would be more produce on the market for the consumer.

W. M. F. TORBERT, Clay county, Iowa:—I am not in favor of reducing the width of the highway twenty feet, nor any other distance. There are many pieces of road in Clay county that are from one-half to two miles in length, of level and comparatively low land. These roads are graded up with the elevator grader and for their successful operation the whole of the sixty-six feet is required. This makes a fine, high grade, wide enough for the teams to pass upon it, and leaves a wide, smooth ditch on each side of the grade which can be seeded down and thus made available for hay, or left in shape so that the weeds can be cut down. On the more rolling lands the township grader is used, making a lower grade and making the ditches about ten feet from the fences. This leaves a good track to drive on and also wide enough to be mowed, so you see that in either manner of road building the entire width of the road is made use of. The farms of this county were originally homesteads of either eighty or 160 acres, and nearly every man planted a hedge of willows around his farm. These are now large trees and therefore the added ten feet of land could not be used for farming purposes. It would necessitate the changing of every highway fence in Iowa, a matter of no small importance when we take into consideration the cost of fencing material. The county supervisors of this county issued a call for all the township trustees and road supervisors in the county to meet on February 9th to discuss road problems. There were about fifty men present and all were deeply interested in better roads for Iowa. During the meeting this same question of reducing the width of the roads came up and after discussion an expression of the house

was taken, and by unanimous vote they declared that they did not want the highways reduced in width.

E. J. MOON, Butler Co., Iowa:—In regard to cutting down the width of the highway will say that I am very glad the governor has taken the step, and I for one am decidedly in favor of it. There is so much waste and idle land all over Iowa on account of the present width of public highways that, in my judgment, it should be reduced twenty feet at least. This would leave ample room for all time to work them, also for passing teams, building bridges, etc. I think by reducing the width of all roads, generally speaking, they will be better taken care of and with less work and expense for all concerned. The weeds will not have the chance to grow that they now have, which is the case generally on all the highways in Iowa, and the expense of keeping them and other trash cleared will be eliminated. Besides, it seems a pity, with land getting so valuable, that these strips of idle, fertile land all over the state cannot be worked, thus helping the farmers and adding so much more wealth to the state. Yes, I have often thought and wondered, and have heard others wonder why the public should be allowed so much width of road and great waste of valuable land generally. I have given it much thought for years and now rejoice that one sensible governor has put himself on record to stir up the people on this most sensible and business-like move to benefit all land owners, farmers and the grand old state of Iowa. I think the roads in certain localities at least, should be reduced in width.

H. M. CARMICHAEL, Fayette county, Iowa:—I have been road superintendent of Union township, Fayette county, Iowa, for six successive years and it is my opinion that the roads should be twelve to eighteen feet narrower in the majority of places, and wider in others. My experience is that twenty-five feet from gutter to gutter is wide enough for a road, if nicely rounded up. If the roads were not so wide and could be worked to the fence line there would be fewer weeds to subdue and would make a far better road the year round. I would add that if the poll tax could all be paid in cash the same as our other taxes, the superintendent of roads could hire his own teams and men and do far better service for the people than by having a new man and team every day. Kansas has a law to this effect. Why not Iowa? There should be a law compelling the telephone companies to set their poles on a line with the fence. In many places the poles are from three to four feet from the fence and one cannot get closer than three or four feet to the poles with the grader. Let us get out of the old rut and do business. Our laws are all right if you get the right man; don't be afraid to pay a man for his worth. I would like to see a county road commissioner in each county in the state, appointed by the board of supervisors.

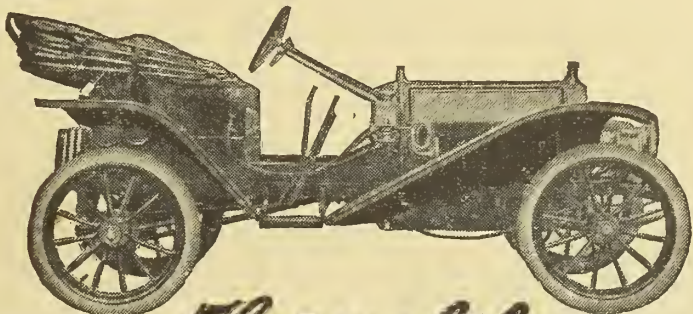
F. M. JOLLY, Marion Co., Iowa:—As I have no wide roads around my farm I do not feel the loss of ground as others do, but I believe narrow roads can be kept up as well as wide roads if they are kept neat and clean of weeds and trash. They can be worked as conveniently, and snow will not drift the full width of the road, while wide roads that are not kept clean will drift and become impassable. A wide road not graded is no easier traveled than a narrow one that is not kept up, but if pains are taken on narrow roads they are just as convenient as wide roads and are as easily graded. Too wide a grade will flatten out too much during wet weather, and if graded too high will cut too deep on the sides. On rolling ground a deep cut will spoil the road by eating it out too fast, and make it impossible to get

at the fence row to mow. A nice grade, well dragged at the right times through the summer and tilled out, is more convenient to travel than the whole farm in a road.

S. T. BUCKLEY, Dent Co., Mo.:—To cut the highways down or narrow them would of course add many acres of land to the farms, but on the other hand where the roads are graded, the ditch runs within a few feet of the line now and to establish a new line would in many places throw the line into the ditch, which would be a very poor place to build a fence. Another thing of importance is the expense of moving the fence. As the

fences are already constructed and in many instances are put up with wire netting, they could never be put up satisfactorily the second time. We all want good roads and I don't think this reform for the purpose of narrowing the highways would add to the road; rather, it would take from it. I think it would look much better to have the highway a little too wide than too narrow; a little strip of clover and blue grass on each side of the road looks better than to be pinched up in such a country as Iowa or Kansas. Let it be the full sixty feet wide. If land is getting scarce in Iowa and Kansas, there is a little left in the grand old state of Missouri that can be had, with

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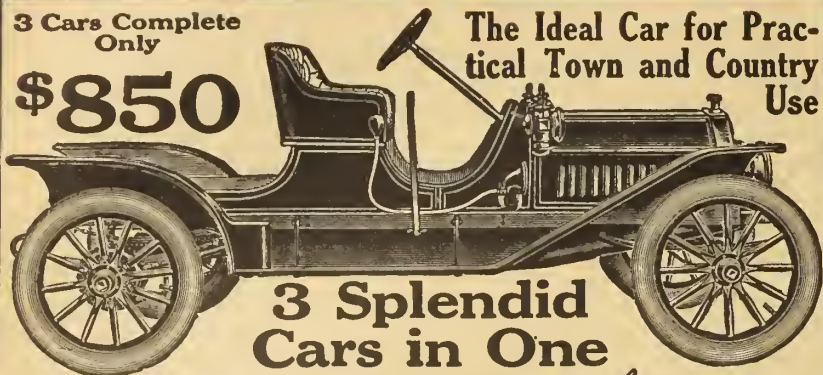
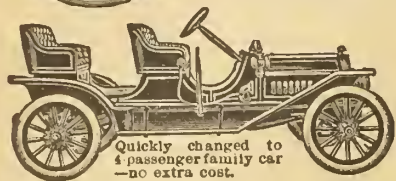
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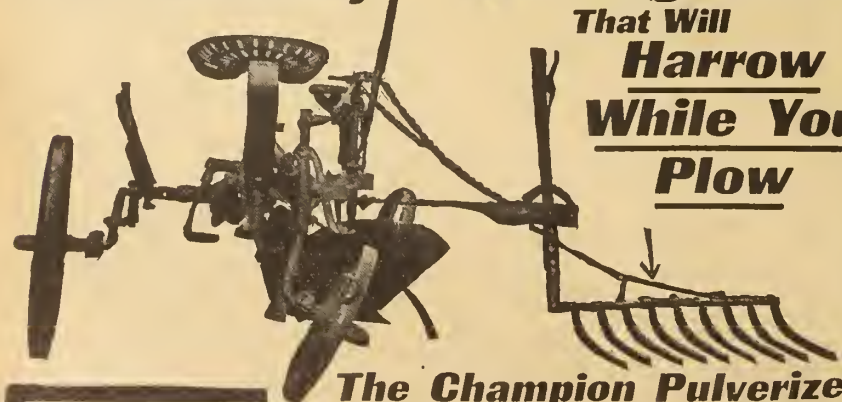
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For Your Sulky or Gang PlowThat Will
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While You
Plow****The Champion Pulverizer**

The Champion Pulverizer is the invention of a practical Iowa farmer who realized that the best time to do his harrowing was just after the furrow was turned, and by means of the Champion he saved all the time that he usually used in harrowing, had his field in better condition for seeding and got better crops because the Champion saved most of the valuable moisture that with the ordinary way of plowing and harrowing was allowed to evaporate.

Size 1, the 5 blade Champion, can be attached to any make of sulky plow, either right or left, and size 2, the 9 blade Champion, can be attached to any make of gang or sulky plow.

Neither size creates any side draft and as the weight of size 1 is only 28 pounds and of size 2 only 38 pounds, the same team can with perfect ease do the same plowing in a day with a Champion attached as they would do without it.

The Champion is always under the easy control of the man operating the plow. It turns corners just as easily as the plow and will not clog in any kind of soil, as the blades are made of soft center plow steel which scours perfectly. It works just as easily in breaking new land or in corn fields, as it does in wheat, oat or other grain fields.

**The Champion Pulverizer Will Save Its Cost in About
Two Days and We Pay The Freight**

Thousands of Champions were used last year and thousands more will be used this year as farmers all over the country are ordering them now for their spring plowing. We guarantee every one to give perfect satisfaction or money will be refunded.

Write at once for illustrated circular, testimonials and prices.

Union Transfer Co., Box A, Dubuque, Iowa.

highways wide enough to pass your neighbors and give room for thrashing outfits to turn into your gate without tearing down the fences.

JASPER BLINES, Clark Co., Mo.:—The state of Missouri, according to the numeration of the public roads commission, is credited with a total mileage of 108,133 in public roads, which is slightly below 1,000 miles for each county. My home county of Clark has an estimated mileage of 900, all of common earth, without a mile of either rock or gravel surface. Thirty-eight counties report a few miles of gravel roads and twenty-six counties are credited with a very small showing of rock-surface roadways. The road laws of the state are in a pitiable condition, subject to the manipulations of weak party politicians whose chief ambition is to get an office and hold it for a long, long time. Our chief maker of good roads is a drouth of many weeks' duration. A few aids are credited to the people of these regions of rich, deep soil and immense rainfall, but our main dependence is upon drouths. The best roadways of our country are those established in the early settlement of the state, some seventy or eighty years ago. These roadways were gaged to seventy or eighty feet in width and were established upon lines of least opposition to travel. Abraham Lincoln very wisely stated that our forefathers who established this government and made its laws were noble and wise in laying the foundation of the republic. They were great prophets. The common earth highway is the chief affair of this subject, as the citizens of Missouri, Iowa and other states will be compelled to use them, with few exceptions. The first principle of a good earth road is to grade it up above the water line. This grading requires a vast amount of earth, and to obtain this earth a wide right of way is necessary. The best roads within my territory of observation are those graded up some four to six feet above the adjacent land, with a width of sixteen to twenty feet, sloping gently from the center of the road bed. This style gives a fairly good passage way which is improved by the use of the drag. Our state legislatures and county officials may well learn some very useful lessons from railway companies in the matter of improving our roadways. The Santa Fe company is a model builder and its right of way is never below 100 feet wide, and on up to 200 or more, according to the nature of the locality. Perhaps forty feet would be wide enough for a country road that is little used, but the general highways should be sixty feet or even wider, as necessity demands. It appears to me that the suggestion of a forty-foot

highway is a crawfish movement. I favor the spread-eagle as a model. The eagle believes in ample liberty and high elevation. We need radical laws for improved highways of strong central power, with the all-conquering spirit of Alexander to sweep across our beloved commonwealth. For each road district the supervisors should be provided with a big stick with orders from the king that the useful weapon be used vigorously all the year. Then we will have better highways and will not be so dependent upon the sun and full moon for good roads.

CHARLES SHIVES, Crawford county, Iowa:—Concerning the proposed change in the width of the public highways of Iowa, would say that I am in favor of it. The principal reason is because so many weeds are allowed to go to seed, thereby seeding the adjacent land annually, with noxious weeds. Another reason is that so much brush, such as plum, scrub oak and other brush is left to grow so that the land is practically worthless, all because we have more road than we need. If this worse than worthless land were seeded down and put in pasture, what a lot of stock it would pasture annually. If the roads were narrowed down to forty or forty-five feet in width they could be graded to within four feet of the fence, thus doing away with the weeds and brush which catch great snowdrifts in winter, making it almost impossible to turn out for another team. I would favor the plan of each county board hiring a professional road maker to oversee the county, each township to hire its own road superintendent to do the work under the supervision of the professor.

E. O. GREGORY, Cerro Gordo county, Iowa:—There seems to be a great agitation of the "good roads" question of late. Who is it that is making this loud, continuous howl for good roads? Is it the farmer? I haven't heard him. Who then is it? It comes from the city people, from automobilists, automobile manufacturers and dealers, and politicians. They have figured how many tons of produce a farmer hauls a year, the average number of miles he travels and how much he would save if we had good roads. I will admit that we ought to have better roads, but it is a mistaken idea that "figures won't lie"—they will if wrongly applied. Let us consider this hauling question. A farmer does not save up his year's hauling till the roads are almost impassable as might be inferred; he does the bulk of it when the roads are good and at a time when he has little else to do, so that the time of himself and team is not rated very high. Our worst roads are



PROFITS IN FEEDING SKIM MILK.

While the merit of skim milk as a feeding ration for hogs is well known, it is doubtful if its value is taken advantage of by the majority of farmers. We have before us a letter written by Mr. A. A. Augenstein, of Dakota, Ill., in which he gives some facts relative to his experience in feeding skim milk from a U. S. separator. The illustration which appears herewith shows the bunch of hogs to which he refers. His letter says: "I am more than ever convinced that the U. S. is the best separator for farm use and if I were in the market today for a separator that was to give satisfaction under all circumstances I should buy a U. S. The bunch of twenty-seven porkers in the picture were fed skim milk from eight cows with a little shorts and water added to make the desired amount twice a day. Shelled corn and oats were fed sparingly twice a day until new corn was hard enough to feed, when they were gradually brought up to a full feed of new corn three times a day until sold. For forage they had the run of one and one-half acres of alfalfa. These hogs were not fed with a balanced ration in view, but just simply such food as was to be had on the farm without paying fancy prices. I have fed nearly all kinds of mill feeds, but could never find anything that would give the same results as skim milk. At present prices of mill feeds I would consider fifty cents a hundred for skim milk not too much. I am satisfied that these hogs would not have made the gains they did without the addition of skim milk." Extended experience and advice in the matter of feeding skim milk is given in the catalog of the Vermont Farm Machinery Company, and may be had by writing the Vermont Farm Machinery Company, Bellows Falls, Vt.

When Writing to Advertisers Please Mention This Paper

in the spring of the year when farmers are on the roads very little, as they are busy putting in and tending their crops. The next question is, Who is to pay for the good roads? The farmer of course. Then let him have something to say about it. We can't say it as elegantly as the lawyers, bankers, doctors and politicians, but we can, perhaps, say it just as emphatically, especially when it comes to the polls at election time. Now we will admit that we want good roads, but we know we will have to pay for what we get in that line. All we want is a "square deal." Public roads are a necessity and all are benefited by them; therefore they should be made and maintained by a general tax. The law passed by the last general assembly of Iowa empowering county supervisors to establish road districts in the same manner that drainage districts may be established, is a farce. This law differs from the drainage law in that the petition must be signed by a majority of the abutting land owners. It was the same at first with the drainage law, but that was amended making one petitioner sufficient and we are afraid the road law may be amended in the same way. This would put the power of building any kind of road, even to asphalt paving, and taxing the cost up to the abutting land owners, in the hands of three men—the petitioner, and a majority of the county supervisors (which is two where the board consists of three members). Now, you say, what is to be done? Simply this: Drain the roads, grade them and drag them. Our road tax does not need to be increased materially. Under the present law a tax of six mills may be levied for road purposes, four for township, one for county and one for drainage. We would recommend that this be increased to two for drainage and that all road money be expended under the supervision of an expert road maker who should be county road commissioner. All grading, draining, etc., should be done either by contract or by a county crew of men who make road making a business, instead of by farmers who will work on the road only when work is not rushing on the farm. I also think a system of graveling might be started which in a few years would make many of our main roads permanent good roads. Railroads have been known to offer to deliver gravel at stations along their lines for the mere cost of loading, the people to unload at said stations. A great many farmers would donate the hauling of the gravel after their corn is out in the fall and we usually have good roads for that purpose about that time (last fall was an exception). In conclusion, a word about narrowing the roads: Farmers generally do not care to have the roads any narrower; we like a good, wide

road with plenty of room to pass bulky loads, droves of cattle, and women especially would like even more room to pass automobiles. Mower wagons and other objects are often met that are quite apt to frighten colts and even older horses that are not used to them. Frequently the whole four rods is needed to obtain sufficient material for grading to bridges and making the road bed. There are places where roads might be a little narrower, but a uniform width is to be preferred. A narrow lane gives a contracted appearance to the country and is not cheerful and pleasant. So far as utilizing a few feet of the road land for crop purposes, it is time enough to discuss that when we have what land we are now working producing to its full capacity. There are over three million dollars collected annually in Iowa, as road tax, outside of cities. Let this be expended judiciously, economically and intelligently, and our roads will rapidly improve.

WELSH PONY AND COB SOCIETY.

At a recent annual meeting of the Welsh Pony and Cob Society of America held at Aurora, Ill., the reports of secretary and treasurer showed a very satisfactory condition of the society and encouraging number of entries and a considerable addition to membership.

A liberal amount was voted for prizes at leading shows of 1910. Arrangements are to be made for separate classes for this breed. Nearly all the former board of officers were elected: George E. Brown, president; Edward S. Frazier, vice-president; John Alexander, secretary; G. W. Fulton, assistant secretary; William George, treasurer. Directors: William R. Goodwin, Naperville, Ill.; E. M. Dixon, New Boston, Ill.; Edward S. Frazier, Aurora, Ill.; Joseph Vail, Boston, Mass.; A. M. Stocking, Keokuk, Iowa; Bradley George, Batavia, Ill.; John Alexander, Aurora, Ill.; George E. Brown, Aurora, Ill.; William George, Aurora, Ill.; G. W. Fulton, Aurora, Ill.; J. B. Haggin, Lexington, Ky.

Incubators are coming more and more into general use. Some one wisely says that in buying an incubator, go about it the same way as you would if you were buying any other agricultural implement. There are a number of good incubators on the market and there are a number of built-to-sell machines that the farmers can not afford to experiment with. To be successful in raising poultry one must use business-like methods with business-like equipment, which includes knowledge, fitness and a taste for the business.

A Big, Powerful Car For \$1,000

The four Overland factories, employing 4,000 men, turn out 125 Overlands daily. Dealers' orders for this year call for \$24,000,000 worth of Overlands.

Of these, Texas takes 1,500, Kansas 1,000, Iowa 1,000, Nebraska 750. Yet the Overland is but two years old.

This wonderful car is now outselling all others. And the multiplied output, in the last year alone, has cut the cost 20 per cent.

No other maker now attempts to give what the Overland gives for the money.

Simplicity

The 25 horsepower Overland now sells for \$1,000. It has a 102-inch wheel base, power for every requirement, and a possible speed of 50 miles an hour. Never has such a car sold for this money.

But the car's main attraction is its simplicity. It operates by pedal control—a method as simple as walking. A 10-year-old child can operate and care for it, for the car is almost trouble-proof.

This car has won a perfect score in a 10,000 mile non-stop run.

A 40 horsepower Overland, with a 112-inch wheel base, sells now for \$1,250.

Amazing Success

The sensational success of the Overland is due to simplicity and to economy. In sections where Overlands are known, no other car has any chance to compete with them.

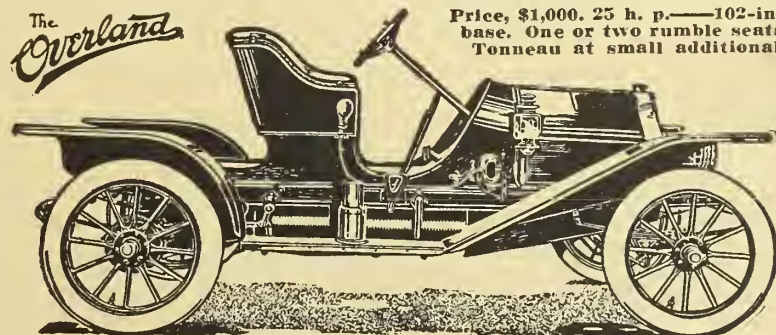
The modest price, the utter simplicity, the low cost of upkeep, appeal to all buyers. This is the car that nearly every man prefers.

Now we have dealers everywhere, so the Overlands this year will be in every community.

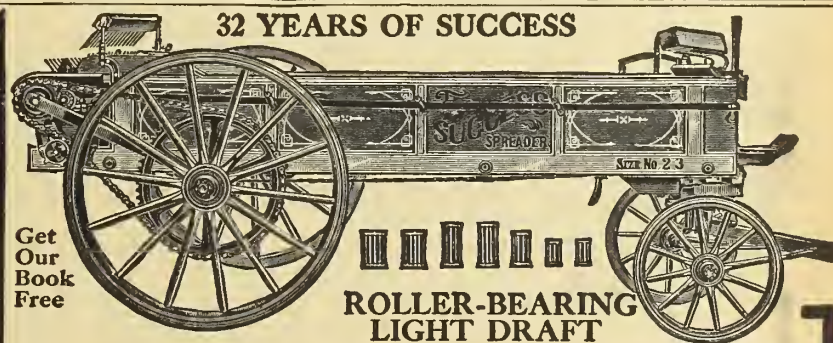
Two Free Books

The new Overland catalog and "The Wonderful Overland Story" will both be sent free on request. They are the most fascinating books ever published on motor cars. Please send us this coupon today for them.

F. A. Barker, Sales Manager C68
The Willys-Overland Company
Toledo, Ohio
Licensed Under Selden Patent.
Please send me the two books free



Price, \$1,000. 25 h. p.—102-inch wheel base. One or two rumble seats or Toy Tonneau at small additional price.



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The only spreader with a 32-year record of good work. Simplicity, Durability and Light Draft always foremost. Direct Chain Drive. No Cog Gears. The choice of men who investigate thoroughly. Wood or metal wheels. A generation of experience back of every Success. The leader from the first. Exclusive features all patented. Catalog of facts Free. Write us promptly.

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GALLOWAY SAVES YOU \$50 to \$300

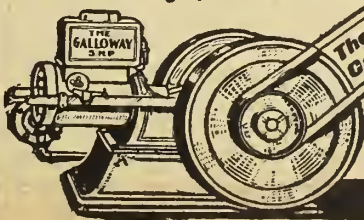
SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horse-power from a real engine factory. Save dealer, jobber and catalogue house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. I sell them direct to you for less money than some factories can make them at actual shop cost.

All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

Anybody can afford and might just as well have a high grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for, in carload lots, for spot cash.

An engine that is made so good in the factory that I will send it out anywhere in the U. S. without an expert to any inexperienced users, on 30 days' free trial, to test against any engine made of similar horse-power that sells for twice as much, and let him be the judge. Sell your poorest horse and buy a

5-H.-P. Only \$119.50



The Way To Big Profits—You
Can Make \$5 To \$10 Per Day

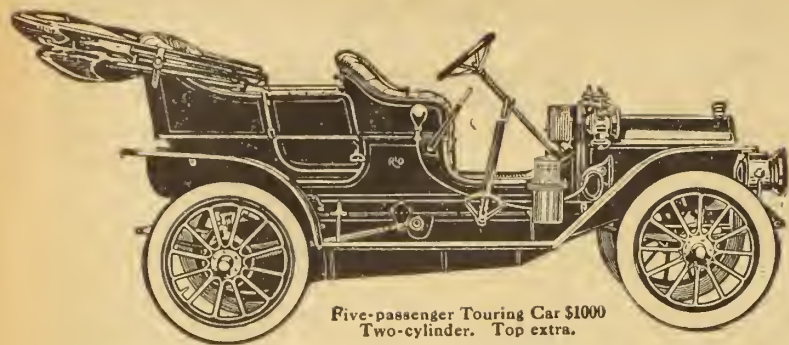
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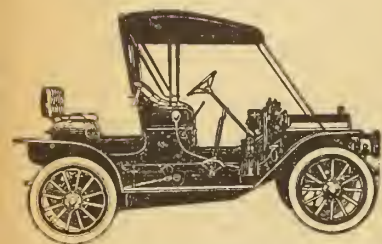
Mammoth Bob 2439 sells in the sale of jacks and jennets to be held at La Plata, Mo., on Tuesday, March 15th, by Mr. G. C. Roan, of La Plata, Mo. He is a three-year-old jack, is strictly a Mammoth-bred jack and stands fifteen and one-half hands high, standard measure. Mr. Roan sells twenty-five jacks and twenty jennets. See his advertisement on page 59 and send for a catalog.



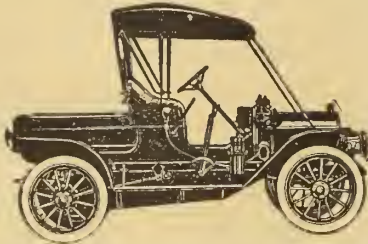
Five-passenger Touring Car \$1000
Two-cylinder. Top extra.

Reo \$1000

The Convertible Car



Roadster with emergency seat and top \$1000



Delivery Car, fully equipped with top \$1000

Changes from a roomy Touring Car to a Roadster or Delivery Car in three minutes.

Famous six years for its get-there-and-back ability. Does what you want it to in all weathers and roads—snow, rain, mud, good roads, bad roads, level or hill.

The car for any man whose business requires him to get about *quickly and surely*.

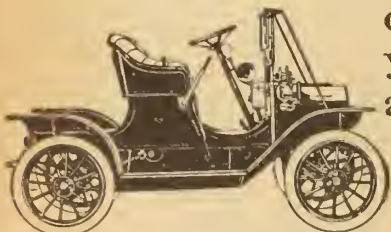
Over 25,000 in use today, and every one of them *doing work*. That is what *you* want.

Reo Runabout \$500

Easily the most reliable Runabout under \$1000. With folding seat (\$35 extra) it carries four passengers as easily as two.

The get-about car for the busy man who has a lot of ground to cover and wants to be sure of getting-there-and-back.

Write immediately for catalog and address of Reo dealer nearest to you and get all the facts about Reo Cars.



Reo two-passenger Runabout \$500 Top and Windshield extra. Extra seat holding two \$35

R. M. Owen & Co.

General Sales Agents for

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Licensed under Selden Patent

CYCLONE ORNAMENTAL FENCES

are a profitable investment for property owners. Every dollar spent in fixing up your place in this way will add \$10.00 to its value.

CYCLONE FENCES

are made so they never sag or bulge out of shape. They will outlast other fences for the wires are heavy and rust-resisting. Cyclone Fabric can be erected on uneven ground. Cyclone Fences are made in many different styles of many attractive patterns, using either steel or wood posts. It will pay you to look into this matter of fences and in order that you may know about Cyclone Fences we send our Style Book free.

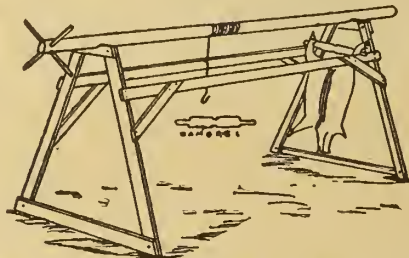
CYCLONE FENCE COMPANY, Dept. 121, Waukegan, Illinois

HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

BUTCHERING OUTFIT.

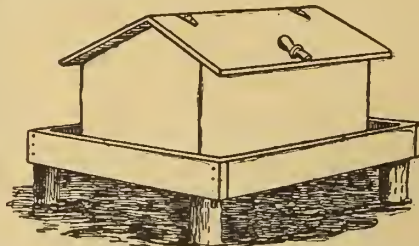
A reader writes us from Illinois to illustrate a salt box for pasture that will hold about a half barrel of salt and also a handy butchering device. We have asked our artist to make the following sketches which we describe: One of the handiest butchering devices we have observed is the one illustrated herewith. It is made out of good material so as to be strong enough to lift a beef if that is desirable, being well braced so as to be strong, but is put together with bolts so it can be taken apart and put away when not in use. The windlass is made of a round cedar post if one can be found suitable and the arms for winding may be made long and strong



enough to lift any hog or beef. The rope is placed well at one end of the windlass and the hog lifted and held in position by tying one of the arms to the stand. When the hog is dressed it can be pulled up through the track and the ends of the gambrel (one of which is shown) projects through and holds the hog in position for cooling. This can be made long enough to hold as many hogs as may be butchered at one time. The scalding vat and table may be directly under the windlass or can be to one side, just far enough away to be convenient for hanging. A beef can be butchered by a device of this kind as well as hogs.

Salt Box.

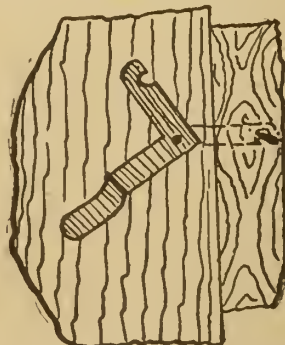
The salt box is made out of two-inch stuff so it will withstand the pranks of horses and other stock crowding about the salt place. An ordinary bunk is made about three feet wide by four



long and the salt receptacle made so as to fit inside the bunk endwise, but much narrower on the sides. The sides come down to within an inch of the bottom so that stock can lick the salt.

A Handy Catch for Doors.

When the hands are encumbered with mittens it is not an easy matter to unhook the usual fastenings on barn doors; this annoyance may be prevented by making a catch of band

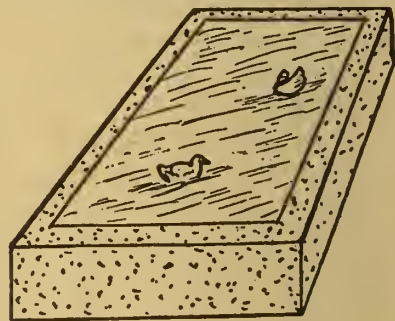


iron. This is bent at right angles, as shown in illustration, and bolted to door; one end is bent outward from the door so it makes a handle that is easy to operate under any condition. The opposite end has a notch filed to engage with a pin on the framework

doorway, as shown by dotted lines in drawing. The simple movement of pressing the lever back unfastens the catch, which works equally as well upon both sliding and swing doors.

Concrete Pool for Ducklings.

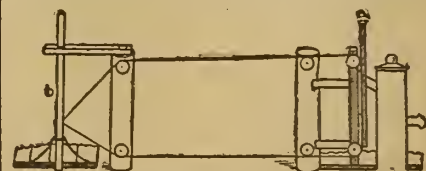
There is nothing of greater value to the young ducks than a clean supply of water; which is large enough so they can thoroughly enjoy their natural element. The pool of concrete shown in illustration may be easily constructed by excavating to the depth desired and inside this setting a square form, of the size the inside of pool is to be; this is made by nailing four boards together; the concrete may be easily filled around this form making a substantial tank of convenient shape and size. A supply of fresh water may be arranged for in building, by inserting a small gas pipe into one side of tank and with sufficient length to reach outside the poultry yard, as an outlet; the inlet pipe from water-works or storage tank (this may be a barrel set beside pool) should be one-third larger than outlet pipe, which will keep pool level full at all times.



With both pipes fitted with a gate or valve you can allow the water to run once a day to clean out pool and then shut off, if supply will not permit running water all day long. The slight expense of constructing such a pool will be fully repaid in the decreased loss of ducklings, for they will be in no danger from vermin as when swimming in creeks and ponds.

Operating Two Pumps With One Windmill.

Where it is desired to use one windmill to operate two pumps located some rods apart, the device shown in illustration will solve the problem. Two posts are placed in the ground, one at the edge of windmill platform and the other at the second well platform; a framework is made for the second well so as to extend the 2x4 upright, to which pulleys are attached at top and bottom, to within 7 inches of the pump; if the ordinary handle pump is used, an upright one by 2 inches and about 3 feet long is attached to the pump handle, which is cut off and the end bolted into a mortise cut in this upright, as illustrated. The wires at this end are attached at the point handle which is bolted to the movable upright, and from this point they go over the upper and lower pulleys on stationary upright and from there to the post placed at windmill platform,



where passing over two pulleys are connected to pump rod, as illustrated. This method will transmit the power to a greater distance and work without the jerky motion of the usual quadrant, for this purpose, as well as being simply and cheaply constructed each up or down stroke of pump rod on windmill producing the opposite stroke on the second pump. Where the usual windmill pump is used on the second well, the wires may be at-

25,000,000 Acres of Colorado Farm Land at \$6.50 up to \$20.00

The eastern half of Colorado is vast country of good soil, on which Durum and Turkey wheat grows 30 to 40 bushels per acre. Do you want some of this land at an average price between \$6.50 and \$20.00?

It yields 50 to 80 bushels of potatoes, can your farm do that well?

You can harvest 20 to 35 bushels of barley and cut seven to fifteen tons of flax. Why, you can own a little empire out in this splendid highland of high health by selling your present place and getting one ten times as big with the money.

Come to Colorado and Strike it Rich

Every foot of ground is a good mine—an agricultural mine. The Rock Island has no land to sell you—just facts to tell you about prospects better than you now enjoy—where you can be more prosperous and out of your prosperity help increase its freight earnings. It will pay the Rock Island only to get you on a good farm because you can't be a shipper if you don't succeed.

Write for the right information, and also find how little it will cost to make the trip on one of the special homeseekers' excursions sent out every first and third Tuesday of each month.



L. M. ALLEN, Passenger Traffic Manager
224 La Salle Station, Chicago

Ship the Hides We do the rest

Get Our FREE Book

This book tells all about Tanning; "How to care for hides;" "How to ship;" "Prices for tanning and making coats and robes;" and "Our iron-clad guarantee." If you are not satisfied you owe us nothing.

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We have made thousands of fur coats and robes for others, so you are absolutely safe in sending your hides to us. Nearly every farmer knows the "Cowboys." Send for free booklet today.

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HIDES AND PELTS
To **McMILLAN FUR & WOOL CO.**
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Illustrated Circular Free to anyone interested in RAW FURS.
Trappers' Guide Free to those who ship to us

Corn Belt Mill
20 Days Free Trial
Grinds more ear corn or small grain, with less power, than any other mill. Doesn't warm the feed. Lathe-centered Burrs may be changed in three minutes. Try it 20 days free.
Write to-day for booklet.
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BROWN FENCE
For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g: 15 to 35c per rod. We pay freight
The Brown Fence & Wire Co.,
DEPT. 34 CLEVELAND, O.

14 3/4 Cents a Rod
For 22-in. Hog Fence; 15 3/4-in. for 26-in.; 18 3/4-in. for 31-in.; 22c for 34-in.; 25c for a 37-in. Farm Fence. 50-inch Poultry Fence 33c. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.
KITSELMAN BROS.,
Box 290 MUNCIE, IND.

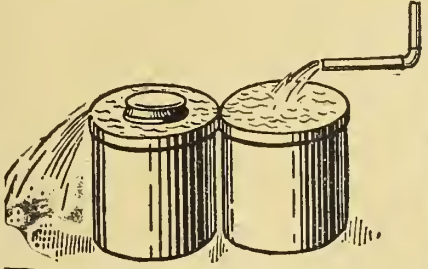
Cheap as Wood.
We manufacture Lawn and Farm Fence. Sell direct shipping to users only, at manufacturers' prices. No agents. Our catalogue is free. Write for it today.
UP-TO-DATE MFG. CO., 927 10th St., Terre Haute, Ind.

FENCE
MADE. Built strong chicken-tight. Sold to the user at Wholesale Prices. We Pay Freight. Catalogue free.
COILED SPRING FENCE CO.,
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tached to pump rod if construction permits.

An Easily Made Milk Cooler.

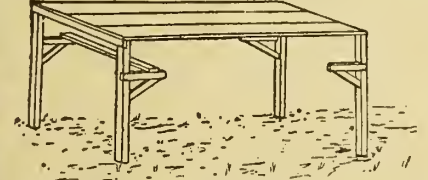
Upon many farms an expensive apparatus for cooling milk is not warranted by the income from this source. To such the simple arrangement, shown in illustration, will be of value. Large size sewer crocks are placed upon a side hill or a slight incline and the bottom of each one that rests upon the ground is filled with a two-inch course of concrete; where the crocks



touch each other a notch is cut out with cold chisel, so the water entering the first crock flows around the cans and into the other crocks below same. These may also be employed in the same manner for a small watering tank, as when one is desired in the barn or field. A sewer crock that has a hole broken out of the bottom end and one out of the top or bell mouth end, makes an excellent fireplace for a feed cooker, as well as any large cauldron or kettle. The lower opening allows you to feed the fire as needed and the upper opening affords the smoke outlet, thus making a good draft, while the kettle is placed in the bell mouth thus holding it securely over the blaze; it not only utilizes all the heat of fire, but is far safer than an open fire.

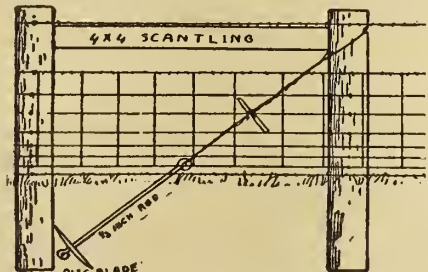
Manure Spreader Shed.

A contrivance to unload the "wagon box manure spreader" when the trucks are wanted for other purposes, and which makes a very good shed for the spreader box when not in use, is made as follows: Set four good posts, or 4x4's, in the ground as illustrated. Set



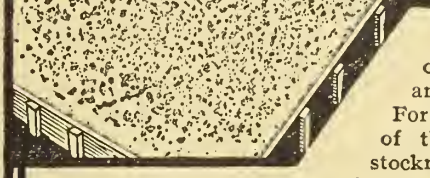
them wide enough apart so as to drive between neatly. Make the contrivance about a foot longer than the wagon box spreader, and high enough to allow the box to be raised clear of the standards when unloading. The top should be boarded over tight, and can be covered with roofing. The sides can be boarded up tight, or they can be boarded down from the top just far enough to protect the box from the sun. To unload, drive under the shed and use a patent hoister, or a block and tackle, and swing the box to the top, raise the front end first and place a 2x4 across under it on the brackets provided. Raise the rear end in the same way, placing the 2x4 in position, and the box is safe till you want to load it on the wagon again, when the trucks are run under and the box let down on them.

I enclose a plan for bracing a fence which is not original with me, but was first used by a neighbor whose farm joins mine. I have tried the plan, however, and will say that it is the simplest, will hold a fence the most rigid, and last the longest of any I have ever tried or seen. The anchor



can be placed in the same hole in which you put the first post. Instead of the first or corner post "bucking up" the tension of the wire tends to hold the posts in as will be readily seen by the drawing.

Your Stock Thrives On Pure Water in Concrete Watering Troughs



You know that an ample supply of pure water is necessary to raise and fatten stock successfully.

For more than three years a number of the largest and most successful stockraisers in the middle west have been testing a new watering system to

their complete satisfaction. It consists of a central concrete supply tank filled by an engine or wind mill pump, piping water to several conveniently located drinking troughs—also of concrete.

No chance here for typhoid or tubercular germs.

If you thoroughly understood this system you would want it installed on your farm. You can make these tanks at odd hours—with a convenient supply of gravel or sand—concrete made from

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will cost you much less than any other building material you can use.

Wood, or iron decay and breed disease—concrete is indestructible, never wears out, never needs repairing—hard as a rock, unaffected by the ravages of time, weather, fire or rats.

There is practically no limit to the uses of **Chicago "AA"** Portland Cement on your farm—floors, walks, silos, cribs, fence posts, barns, dwellings, etc.

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There are a number of reasons why **CHICAGO "AA" PORTLAND CEMENT** makes the most economical cement any farmer can use—you owe it to yourself—and us—to be posted on this matter—our new, handsomely illustrated books, "Cement on the Farm" and "How to Mix Concrete," will prove most interesting—they're yours for the asking—write us a postal today.

Chicago Portland Cement Co.
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Best Linen Waterproof Tape, Three-Eighths Inch wide. Indelible markings in two colors. Beautifully nickel-plated case.

Write us on a postal card asking for the tape-measure and telling us about how many rods of fence you have on your farm.

That is all it will cost you now or any other time. It is simply a gift we send with the information we want you to have about

APEX FENCE

The Fence with The Swinging Joint

Self Adjusting To Rolling Ground

We know that APEX fence will solve your fence troubles. It is the easiest to erect and the strongest when built of any square mesh fence made. Farmers are tearing down other unsatisfactory fencing and putting APEX fence in its place. We want to tell you why this is and save you the trouble of rebuilding fence. We will send full information with the gift.

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This is the patent Swinging Joint.

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All styles for field and lawn. Best material and construction. Free sample and catalog. Dept. H,
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48IN. FENCE 27c
Best high carbon coiled steel wire. Easy to stretch over hills and hollows. **FREE** Catalog—fences, tools. Buy from factory at wholesale prices. Write today to Box 53
W. H. MASON, LEESBURG, O.

When writing mention this paper.

DAY BY DAY

AGRICOLA

When we speak of the great mysteries of nature it is only another way of confessing our own ignorance.

Many pious men have thought that turning away their eyes from earthly things is necessary in order to have an interest in heavenly things. Others have thought that the world is good and a rare gift to man and that he should appreciate it and thank the giver for it. Agricola believes the latter view is correct.

What of value, what of interest, what of blessedness, has Jack Frost firmly bound up and hidden from farmers of the corn belt? The spring sunshine will loosen the fastenings, and earth will stand revealed in fresh beauty and with gladness should the farmer lay hold of his tools, summon his domestic animals to his aid, and make earth a little more like what we think heaven ought to be than we ever have before.

Compared with the years recently passed into history demand for farm products has increased. Machinery enables the farmer to do more with the same help, if he had the same help, but he hasn't. Labor has moved to the city to engage in protected industries. This shifting of population from farm to town has added to the mouths to be fed and subtracted from the hands to provide food. That is, so far as providing food goes, city people are non-producers, and increasingly clamoring for food—cheap food, but they do not get it.

In Sweden sugar beets for the factories are largely grown by the corporations owning the factories. This gives occasion for a strike of those who are hired to grow the beets, and the labor union declares that no beets will be allowed to be grown unless the sugar trust yields to the demands of the union. Suppose the corn growers of Uncle Samdom should go on a strike.

What do you see when seated around a fireplace with the wood blazing and the red coals glowing in their beds of white ashes? If you are an old man you see ruined cities of the past, and if you are a young man you see air castles rising from the sparkling embers. And age is very much a matter of the heart in such matters. What you see depends much upon the inner vision.

I like to have the spring litters of pigs farrowed at nearly the same time, and for various reasons. I can then even up the litters, and make them uniform in numbers. If a young sow is allowed to suckle a small number of pigs the udder is undeveloped in the unused portion and she is handicapped for life.

Life is what we make it and we are what life makes of us. I like to see an old man who is "like a shock of corn, fully ready for the harvest," if it is good corn.

I believe, but can not prove it from trial, that it would pay us to grow rust-resisting oats by saving our seed exclusively from oats free from rust. There will be spots in oat fields where the land is flat and poorly drained, and the rust starts in these places and spreads. Other spots with good land drainage and air drainage grows strong, rust-resisting plants. Why not save our seed from these oats?

The farmers lives so "near to nature" that he is remiss in living near his neighbors. Being neighborly is the best foundation for Christianity and a future home in the New Jerusalem. Who is your neighbor? Do you really know him?

But a big drove of wandering bronze turkeys is not a good thing to cultivate good feeling on the part of your neighbors.

My calendar clock made a mistake. Its memory is at fault, and it put my nine days into February under

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

FOR SALE—640 acres of the finest western Canada wheat land. One mile from Girvin, Saskatchewan. Four hundred acres cultivated, forty acres meadow, balance prairie. Canadian and American farmers on surrounding farms. Six-room frame house, barn and granary; eight head of stock and a complete outfit of farm implements. Terms: Small cash payment, balance yearly crop payments. Write the Welch Land Co., 517 Union Bank Building, Winnipeg, Manitoba.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$5 per acre; only one-fortieth cash, 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands, J. J. Snyder, School Land Locator, 505 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15¢ per line. Send 10¢ in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

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KANSAS FARMS, Kansas farms, Kansas farms, Layton Bros., Goodland, Kansas, have large list of farms for sale. Write for list and descriptions. Buy a home. Be independent when old.

HARPER CO. 160 acre farm, good house and stable, good corn and alfalfa land. Price \$35 per acre. Write for description. Jas. W. Lysor, Route 1, Anthony, Kansas.

MISSOURI farm lands. No better grain and stock land anywhere. Write for list and prices. Fulton Real Estate Agency, Fulton, Missouri.

SNAPS! SOUTH DAKOTA, North Dakota, Montana. Write us your wants. Lists and maps free. P. I. Neister & Co., Sioux Falls, S. D.

IF YOU want good and cheap farm lands, write us. We have them. Walter A. Evans & Company, Kiowa and Prior, Oklahoma.

BARGAINS in farms and school leases, good soil, fine climate, short winters. Circulars free. A. J. Haskins, Hunter, Oklahoma.

FOR SALE—Two hundred forty acres; also for rent, good farm; all near Austin, Minnesota. E. G. Sachse, Cherokee, Iowa.

WRITE for big list of cheap South Dakota lands. Hazlett's Land Agency, Marion, South Dakota.

the wrong impression that it is leap year. Evidently the man who cleaned it last put the wrong cogs in mesh in the wheel which revolves but once in four years.

Farmers here who were late in husking their corn received little or no benefit from the stalk fields because the snow came so early and fell so deep and stayed all winter that stock could not forage for fodder. And now it is March and the ground is liable to thaw as soon as snow vanishes, and it will not do to allow stock to tramp the ground when it is soft and muddy. Such a winter is an apostle of ensilage.

Formerly silos were built square but now without exception, at least in this locality, they are round. There are advantages in the round silo and one important one is that the silage keeps with less waste.

Did your tomatoes blight last year? Set them out in a different place this year if they did. It is easier to run away from the trouble than to fight it successfully where it is entrenched.

Horseradish for market must be roots set out new last spring. These roots will be crisp and brittle, but if allowed to grow old they get tough and stringy and unsalable. For home use, however, you can get along with old roots fairly well.

Wireless messages can be sent on a postal card and the cost is only one cent if the message is polite and decent. But do not try to dun one for debt or call him bad names by this wireless method.

It is not so much the distance from town as the convenience with which this distance can be traveled that counts. Improving the road is equivalent to moving nearer town, and moving nearer town improves the value of the farm.

To move your farm 100 miles south, climatically speaking, set out a good evergreen hedge. It will temper the winter winds wonderfully.

Nowhere does fact count for so much as on stock being sold at the public sale. One of my neighbors recently got from \$60 to \$90 a head for grade cows, mainly because they were in sleek order.

REAL ESTATE.

SNAP in 160 acres hard maple land; good clay soil with fine spring; lots of cord wood; set of log buildings and ten acres chopped off; close to good railroad town in Polk County, Wisconsin; splendid dairy country; only 60 miles from the Twin Cities; \$14 per acre; \$500 down, balance on long time at 6 per cent. Owner, O. C. Lock Box "A," St. Croix Falls, Wis.

LISTEN—One of the finest lying quarter section farms in Eastern Kansas, near Topeka; good improvements; worth \$100 per acre. Owner non-resident; says sell at \$65, half cash and 5 years' time on balance at 6%. Address J. E. Thompson, the Farmer Land Man, Topeka, Kansas.

THE RICHEST farms where everything grows large in Southeastern Kansas, 120 miles south of Kansas City and 30 miles west of Missouri; prices away below their value; maps and printed information; no trades. Thos. D. Hubbard, Erie, Kansas.

WANTED Farms and businesses. Don't pay commissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties free. American Investment Association, Minneapolis, Minn.

LANDS that will pay for themselves; good soil; good crops; good climate; good water; cheap fuel; Burlington County, North Dakota. Write for prices and terms. J. C. Hallum, 916 15th Ave. South, Minneapolis, Minnesota.

360 ACRES of best land in Codrington County, South Dakota, nine miles from Watertown; \$50 an acre; 300 acres broken; can all be broken. This is a snap. Write us. Ransom & Bahcock, Watertown, South Dakota.

HOMESTEADS, timber claims, coal lands in famous Musselshell Valley, Montana. Reasonable location fees. Ranches, farms and business locations for sale. Musselshell Development Co., Musselshell, Montana.

CASH for your business or farm. No matter where located or what your property is worth, if you want to buy, sell or exchange, address Frank P. Cleveland, 1279 Adams Express Building, Chicago, Ill.

OREGON farm and fruit lands; timber and cut-over lands; grazing and irrigated lands. Write us for information. Maginnis Land & Investment Co., 316 and 317 Lewis Bldg., Portland, Oregon.

FOR SALE—Half section (will divide) near Watertown; good land and buildings; near school and market; will sell for \$45 per acre until May 1st. J. E. Bird, Watertown, South Dakota.

CORN, wheat and all staple crops grow to perfection here in the garden spot of Oklahoma. Prices reasonable. Write for list and descriptive literature. C. E. Pochel, Newkirk, Oklahoma.

117 ACRES—7 room slate roof house, blinds and painted; 2 barns, 24x40, 38x40; granary; plenty fruit; main road; \$2,500, 1/2 cash. Hall's Farm Agency, Owego, Tioga County, New York.

\$2,800 BUYS 125 acres land, with excellent buildings, large new basement barn, 2 story house; in first class condition. Lewis Farm Agency, Candor, Tioga County, New York.

FOR SALE—Half section farm; \$6,500; well improved; in the famous Bowhells country. You can not find a better snap. Lyon Land & Loan Co., Bowhells, North Dakota.

\$35 PER ACRE for 450 acres land in Rooks Co., Kansas; 360 acres in growing wheat; 1/2 of crop with land. Write for list of 50 farms. C. H. Dewey, Stockton, Kansas.

OKLAHOMA, Custer Co. 320a grain and stock farm; 2 miles railroad town. Good improvements, well watered. \$30.00a. C. A. Fisher, (Owner), Custer, Oklahoma.

FOR SALE—97 acres adjoining town; good, level land; 5 room house; new barn, 64 by 74, a bargain for price. Write or call on J. H. Long, owner, Selma, Kansas.

SOUTH DAKOTA lands for sale in artemisia belt, from \$15 to \$50 per acre. Live agents wanted. Call on or write Waters Land Agency, Redfield, S. D.

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EASY MONEY farming in Texas on Palo Blanco Gardens. \$10 per month. Write Street Realty Co. (Inc.), San Antonio, Texas, for free booklet.

500,000 ACRES of good grain land to be had under the homestead act near here; good climate. Address Business Men's Club, Columbus, Montana.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

FOR SALE—Farm and ranch lands in famous Judith Basin, Montana. Write me for particulars. H. M. Johnson, Lewistown, Montana.

FOR SALE by owner; 160 acre Southern Minnesota farm; \$36 per acre; worth \$50; need money; must sell. Address T, in care this paper.

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HAVE moved to town, and will sell three quarter section farm, either part or all. M. M. Cook, Monango, North Dakota.

200 ACRES; well improved; a fine stock farm; 2 1/2 miles out; \$1,500; terms; other farms. Whiteside & Co., Niangua, Missouri.

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GUTHRIE'S "The Butter Breed" choice youngsters; both sexes; from official record and advanced registry ancestors. A. H. Huiiman, Allenville, Wisconsin.

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AGENTS WANTED.

WE PAY \$50 a month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bligler Company, N425, Springfield, Illinois.

POULTRY.

50 VARIETIES, fine pure bred chickens, ducks, geese, turkeys, Northern raised hardy, the greatest winter laying and prize strain in America. 5,000 prizes. Fowls, eggs, incubators, poultry and bee supplies, at lowest price. Send 4c stamp for our Big Illustrated Book. It tells all, worth dollars. Zierners Poultry and Bee Farm, Austin, Minnesota.

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JUST FEW LEFT—3 Partridge Cochins, each \$2; late cockerels, \$2; fine cockerels, \$3; fine S. C. Red cockerels, \$2; Columbian Wyandottes, 3 cocks, \$2; cockerels, \$2. Write quick. W. J. Casey, Knoxville, Iowa.

WHITE WYANDOTTES—The blocky type; with vigor, size and great egg producing quality. Fine strain of winter layers. Low price. Be friendly. Write me your wants today. Mrs. A. A. Berry, Clarinda, Iowa.

RHODE ISLAND Reds. Egg producing strain. Splendid, hardy, farm-raised birds. Genuine Red. Not buff or salmon. Low prices. Be friendly. Write me your wants today. Mrs. A. A. Berry, Clarinda, Iowa.

WHITE PLYMOUTH Rock eggs from my prize-winning pens at \$2 per 15; 30 for \$3.50; from farm range, \$5 per 100. Bred them 12 years. Satisfaction guaranteed. Bertel Hansen, R. 2, Alta, Iowa.

SILVER LACED Wyandottes exclusively; winners at several shows. Eggs for hatching, 25¢, \$1.35; 100, \$3.50. Circular free. John A. Johnson, Route 2, Pilot Mound, Iowa.

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ROSE COMB Rhode Island Reds; rich, red, high-scoring birds. Eggs, \$2 per 15; \$5 for 45. John Hetlich, poultry judge, Bowling Green, Missouri.

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MEN WANTED—To prepare for the next railway mail, postoffice carrier-clerk, internal revenue and custom house examinations. Salary, \$50 to \$125 monthly. Rapid advancement to higher government positions. No "lay-offs" because of poor times. Short hours and annual vacation with full pay. Over 15,000 appointments to be made during 1910. City and country residents stand equal chance for immediate appointment. Common education sufficient. Political influence not needed. To advertise our schools, we are preparing candidates free. Write immediately for schedule showing dates and places of the spring examinations. Immediate action is necessary. Franklin Institute, Dept. R.25, Rochester, New York.

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WANTED—Railway mail clerks; \$100 and more monthly; 2,000 to be appointed. Examinations soon. Write for application form 11 and full particulars. American Standard Institute, Kansas City, Mo.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination; 100 free scholarships. Write for schedule and free trial lesson. Ozment, Dept. 42 R, St. Louis, Missouri.

MEN WANTED to become mechanical draftsmen; pay \$35 to \$75 weekly; complete course at your home 4 months. Box 433, Newark, New Jersey.

WANTED—Man to work on farm for 8 months; good wages for a good hand. A. H. Barnhart, Heaton, North Dakota.

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SEED OATS—Regenerated Swedish Select, Early Kherson, Swedish Select, (Wisconsin No. 4). America's three best oats. Farmers' price. Re-cleaned. Sample and circular. Alfred Klein, Lomira, Wis.

250 STRAWBERRY plants, \$1, in three best varieties. Wholesale prices on nursery stock. Catalog free. John F. Dayton, Waukon, Iowa.

BUNKER'S Yellow Dent. Fire dried; tested; high quality; high price. Sample, 10 cents. F. Bunker, Kilbourn, Wisconsin.

SEED POTATOES for sale; four varieties, Burbank, Prize Taker, Bonanza, Scal Proof. Henry Quert, Sebeka, Minnesota.

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PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. F. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

DOGS.

FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successful coon, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

POST CARDS.

FINE EASTER and Birthday Post Cards, send 10 cents for 30 samples. German American Post Card Co., Dept. 5, Burlington, Iowa.

MISCELLANEOUS.

MILK BOTTLE Brush that is guaranteed to keep milk bottles clean; 25 cents. Money back if you are not satisfied. Whittemore Brush Factory, 307 Wethersfield Avenue, Hartford, Conn.

DRY BATTERIES renewed by anyone for 10c. to 35c. per dozen. Formula, \$1. Will send it this week for 35c. Fairmount Telephone Co., Leightons Corners, New Hampshire.

LADIES MAKE shields at home, \$10 per 100. Work sent prepaid to reliable women. Particulars for stamped envelope. Eureka Co., Dept. 32, Kalamazoo, Michigan.

LEARN BARBER TRADE by mail; saves expenses; good wages; expert instructions. Send for free booklet. Modern Barber Institute, Soo, Canada.

The Dog for the Farm

By C. R. Shumway

IT IS surprising that there are so many worthless farm dogs kept the country over. Besides being worthless, they are too often a menace to everyone but the owner, and to him they are a constant source of needless expense. Little is the wonder that many first-class farmers will not have a canine of any description on the place.

If a dog is to be kept, why not be economical and have him useful at the same time? A worthless dog eats just as much as a good one. He will do no work and can be taught nothing. Perhaps he won't even kill a rat for the fun of it. He will chase crows by the hour, bark at every passing team, and perhaps follow it to the neighbor's or farther. He will chase the chicks and run the colts into the fence; but of useful accomplishments, he has none.

On the other hand, consider the possibilities of a well-bred and well-trained collie. Sensitive almost to a fault and

to develop, it would be a harder task to teach him to work.

One mistake which is no doubt often made is to expect too much of the puppy. A well-bred pup is secured whose sire and dam are both excellent workers and it is expected that these qualities will at once be manifested. If they are not, discouragement is often the result. The collie is very sensitive. He would about as soon be beaten as scolded and if either is practiced too much, he gets discouraged. If training is started too early, he is kicked by a cow or an old ewe puts on a bold front and the little fellow is so badly scared that he is afraid to try again. If these things happen too often with him, an otherwise useful dog may be spoiled for life. This is the time for the trainer to exercise his ability and patience. Help the puppy to scare the old ewe in the desired direction so that he may have the credit of it and he will soon learn to dodge "Old Star's" heels



THE PRINCE OF FARM DOGS—THE COLLIE.

yet one of the best helpers and most obedient of servants if properly handled, bred for generations as a sheep dog, he learns to handle sheep very readily. I have seen one man and a dog take a bunch of sheep where four or five men had failed to do anything but make the sheep panic stricken. Naturally the collie takes to sheep, but he may be taught to handle cattle equally as well, though it often requires more courage because of the difference in size between sheep and cattle. A few collies may be taught to drive horses, but, in view of their playful disposition and the ease with which horses are made to run, and the attendant fence corner dangers, it would usually be better to drive the horses without the help of the dog. However, if the dog is of a quiet disposition and there are no fence corners, the horses as well as all other live stock may be driven with the collie.

Besides being a good helper with the stock, a good collie is one of the best of companions. Many are the instances of almost human intelligence shown by these animals in their care of children. They seem to be especially fond of children and a puppy is never so happy as when in their company. Whether the company of children has a tendency to make him less useful is not a settled question, but it would seem that if playing habits are allowed

and to make "Old Nanny" go where he wants her to. The collie is plenty young enough to start to work at one year of age. By this time he has outgrown some of his timidity, has a little more "fight" in his blood, and is not so easily discouraged.

A collie, rightly selected and well trained, is not only a useful animal, but an agreeable companion as well. With clean-cut face, mild, brown eyes, slightly undershot jaw, erect but properly broken ears, white ring around the neck, white points and a well-feathered tail, and coat of either black or tan, he is truly handsome. If one loves the picturesque, nothing can do more to add this charm to the otherwise commonplace farm scenes.

An Iowa farmer was the first one to receive \$10 a hundred for his hogs at the Union Stock Yards, Chicago. In other words, he was the first man in half a century to realize this price on market hogs. He had something like sixty-six hogs, and from this number carried home a \$2,000 draft. It is not so surprising, after all, that an Iowa man should make this record, because if all the hogs that are marketed from the Hawkeye state in one year were sent to the Union Stock Yards in Chicago, the number would be practically 50 per cent of all the hogs received from all other states.

Wear Ruthstein's STEEL SHOES

Our 1910 Model

Patented Dec. 4, 1906. Others pending.



Absolute Protection Against

Colds, Rheumatism, Stiffness, Discomfort
No More Blistered, Aching Feet

GOOD-BYE to CORNS and BUNIONS!

Three to Six Times More Wear Than Best Leather Work Shoes

FREE

Write for book, "The Sole of Steel" or order a pair of Steel Shoes on bank.

These wonderful shoes actually save at least \$5 to \$10 of your shoe money every year. They're the strongest work shoes in existence. If you wear Steel Shoes you will never suffer from sore, blistered, aching, feverish feet. Nor will you catch cold or get rheumatism or stiff joints. For these comfortable, steel-bottomed shoes, with waterproof leather uppers, keep your feet so warm and dry that you can work in the worst kind of weather without danger of "catching cold." You can work, dry shod, in soft mud or wade in water, for they are as waterproof as rubber boots. But, unlike rubber boots, Steel Shoes don't heat or sweat the feet. Nor do they get water soaked, warped and twisted, for light, thin steel soles compel the uppers to keep their shape.

Order a Pair of Steel Shoes

Direct From This Advertisement

Dyersville, Iowa, Dec. 5, 1909. STEEL SHOE CO., Racine, Wis.

Gentlemen:—I enclose herewith 30c for extra steel rivets. I am well pleased with the Shoes; would not take \$10 for them, if I couldn't buy another pair.

I wish they had been in existence fifteen years ago. They are a pad lock to a man's pocketbook.

Yours very truly,

ROSS MORELAND, DYERSVILLE, IOWA.

Protect Your Feet and Pocketbook

Steel Shoes protect the feet from accident, as they cannot be penetrated by jagged rocks, protruding nails, etc.

—They protect the feet from dampness, preventing illness and saving doctors' bills.

—They bring relief from corns, bunions, soreness and other foot-troubles.

—They save time by permitting you to work despite bad weather.

—They save \$5 to \$10 in shoe money every year, and enable you to dispense with rubber boots, felt boots and arctics.

—They cost no more than the best "all-leather" working shoes.

Wear "Steels!"

Fool the Doctor! Cheat the Undertaker! Save Money and be Comfortable!

How Our 1910 Model Steel Shoes Are Made

The soles and an inch above, all around the shoes, are stamped out of one piece of special fine, thin, seamless steel. This sole is as light as a leather sole and so much stronger that there is simply no comparison.

It gives the best foot protection of any shoe on earth. It is studded with Adjustable Steel Rivets, which give you a sure footing and save all wear on the sole. When Rivets become worn you can replace them instantly with new steel rivets. Fifty extra Steel Rivets cost but 30 cents, and will keep your shoes in repair for at least two years.

The uppers are made of the best quality of soft, pliable, waterproof leather that money can buy. They are double thick where riveted to the steel bottoms and reinforced at the seams.

Comfortable Hair Cushions

The thick, springy Hair Cushions or Insoles inside the shoe absorb all the perspiration and odors. You can easily take out, clean and dry the Hair Cushions each night. These Cushions prevent the jars of walking and keep corns and callouses from forming.

Not only will Steel Shoes give greater foot comfort than you have ever known before, but they will pay for themselves over and over again in the saving of medicine and doctors' bills.

Note These Low Prices on Steel Shoes

Made in Sizes 5 to 12—6-inch, 9-inch, 12-inch and 16-inch High.

One pair of Steel Shoes will outwear from three to six pairs of all-leather work shoes.

Steel Shoes, 6 inches high, \$2.50 a pair; better grade of leather, \$3 a pair; extra grade of leather, black or tan color, \$3.50 a pair.

Steel Shoes, 9 inches high, \$4 a pair; extra grade of leather, black or tan color, \$5 a pair.

Steel Shoes, 12 inches high, \$5 a pair, extra grade of leather, black or tan color, \$6 a pair.

Steel Shoes, 16 inches high, \$6 a pair; extra grade of leather, black or tan color, \$7 a pair.

Off With the Old, Rough, Wrinkled Leathers! On With the Comfortable STEEL SHOES!

There's more good wear in one pair of Steel Shoes than in three to six pairs of the best All-Leather Shoes. And comfort! The very first time you slip your feet into Steel Shoes they feel fine. They need no "breaking in." And the longer you wear Steel Shoes the better you like them, for they keep your feet warm, dry and comfortable—though you work in mud or slush up to your shoe tops. Steel Shoes are shaped to fit the foot, and the rigid steel bottoms and sides force them to keep their shape. No warping, no twisting, no leaking possible. And they are as light as any ordinary work shoes.

Throw Away Rubber Boots, Felt Boots and "Arctics!"

Rubber or felt boots heat the feet and make them sweaty and tender. Nothing more uncomfortable or more harmful to the feet. One pair of Steel Shoes will outlast at least three pairs of felt or rubber boots.

A man who wears Steel Shoes doesn't have to own three different styles of working shoes. No arctics or felt boots necessary.

Steel Shoes Save Doctor Bills

Wear Steel Shoes and you need not suffer from Colds, Rheumatism, Neuralgia, Lumbago, Stiffness of the joints and other troubles and discomforts caused by cold, wet feet. Keep your feet always warm, dry and comfortable in Steel Shoes. They protect your health and save doctor bills, while adding to your comfort.

"Steels" Save \$5 to \$10 Every Year

They bring welcome relief from burdensome bills for new shoes. One pair outlasts three to six pairs of best leather-soled work shoes—an actual saving of at least \$5 to \$10 a year!

Steel Shoes never go to the Repair Shop. No new heels! No half-soleing! No patching!

Order Steel Shoes Today!

Send me \$3.50 for 6-inch or \$5 for 9-inch pair of Steel Shoes, state size shoe you wear, and I will send you, by express, the best and most comfortable work shoes you ever slipped on your feet.

You are perfectly safe in sending to me for a pair of Steel Shoes, as I agree to refund your money promptly and freely if not found exactly as represented when you see the shoes. The editor of this paper will tell you I am thoroughly reliable. Money cannot buy better working shoes than either the \$3.50 or \$5 style. You get more foot comfort and health protection, longer wear and greater satisfaction in a pair of Steel Shoes than money can buy elsewhere. So why not send for a pair today? Address

STEEL SHOE CO., Dept. 382, Racine, Wis.
Canadian Branch: Toronto, Canada

SHOE ORDER BLANK

Steel Shoe Co., Dept. 382, Racine, Wis.

Gentlemen: I enclose.....for \$.....

in payment for.....pair Steel Shoes.

Size.....

Name.....

Town.....State.....

County.....R. F. D.....

Your Garden



Vaughan's Seed Catalogue

will reduce living costs and give better living. Vaughan's 1910 Catalogue will show you a straightforward talk about all the best kinds of vegetables and flowers that expert growers in America and Europe can raise.

162 pages, 3 color plates; mailed **FREE**. Write today.

Bargain Flower Novelties

To put our Book in the hands of everyone who makes a garden we mail it with these 9 splendid flowers for 20 cents—two dimes.

9 Good Things 20c

- 35 seeds Sweet Peas, Spencer Mixed
- 15 seeds Kudzu Vine
- 100 seeds Poppy Cornell
- 100 seeds Pansy Giant Mixture
- 15 seeds Tell Nasturtium, New Coquette
- 25 seeds Marigold Eldorado
- 15 seeds Japanese Morning Glory
- 25 seeds Cosmos Lady Lenox
- 100 seeds Feathered Coxcomb

Vaughan's Seed Store
84-86 Randolph Street, CHICAGO
or 25 Barclay St., NEW YORK


SAVE FUEL BY WINDBREAKS

That's good sense—real economy. Get the trees for your windbreaks from a grower who knows what kinds are best. Buy from a nurseryman who grows his stuff right and ships it properly. I make a specialty of trees for windbreaks. And I know what ones to depend on in this climate. All my Evergreens are shipped fresh dug, carefully packed.

Let Me Send You My Book and Discount Card

The book tells you why I can offer better stuff at lower prices.—I have no agents. Card will give you special discounts on all you buy. Both catalogue and card free.

IRVIN INGELS, Prop., Home Nursery
Station 34, La Fayette, Ill.



GOOD SEEDS

BIG SEED BOOK FREE

BEST NEW CROP GROWN SEEDS IN THE WORLD AT FARMER PRICES. In addition we give a whole lot of extra seeds with every order. OUR BIG ILLUSTRATED CATALOGUE OF FARM AND GARDEN SEEDS IS NOW READY. It is FREE to you. A postal card will bring it to your door. Write for it today; also send the address of your neighbors who buy seeds. Address,

RATEKIN'S SEED HOUSE,
SHENANDOAH, IOWA



SEED CORN ON TRIAL

TESTED—GUARANTEED—HIGH GERMINATION

Why plant doubtful seed corn when you can get the best that grows, at a reasonable price. PURE BRED, practical varieties—yields big crops and make good money. We have it. We know it so well that we fully GUARANTEE IT. Test it any way you want and if not fully satisfactory, return at our expense. Fair enough, isn't it? Better buy seed corn of high germination, be sure of your seed and take no chances on doubtful seed.

Wouldn't you like to have some samples of seed corn, suitable for your location and our fine illustrated catalog, telling about our guaranteed seed. All free—write today.

A. A. BERRY SEED CO.,
Box 603 CLARINDA, IOWA.



CLOVER


New Crop Iowa Grown Recleaned TESTED

and Inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc., at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free. IOWA SEED COMPANY, Dept. D1 DES MOINES, IOWA.



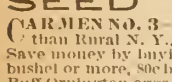
EVERGREENS

200 Norway Spruce, 3 to 6 in., \$1; 100 Arbor Vitae, 3 to 6 in., \$1. Prepaid by mail. Many other \$1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price list free. HARVARD NURSERY, Box W, HARVARD, ILL.



SEED POTATOES

CARMEN NO. 3—best late, white, yield; better than Rural N. Y., which they much resemble. Save money by buying direct from the grower. 5 bushel or more, \$80 bu. Less amounts \$1 bu. S. C. Buff Orphington eggs \$1 per 15. Extra good mating. Address **D. J. EARLY, BRISTOW, IOWA.**




SEED CORN

Reid's Yellow Dent, Griffith's Early Yellow Dent and Silver King grown in Northern Illinois. Selected and tested by experts. Sold under absolute warranty; shipped subject to your own test. Send for free catalog. L. C. Brown, LatGrange, Cook County, Ill.

60 VARIETIES Strawberry Plants


Send for Catalog.

D. J. HENRY, LaPorte, Ind.



Horticulture

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.



SUCCESS WITH MUSKMELONS.

This delicious vegetable can be grown in any locality where corn will ripen and no garden is complete without them. One of the first steps to success is to get good seed; never use seed which was grown in the home garden, as the chances are that cucumbers or squash were growing nearby, in which case the seed would be sure to be crossed and the product therefrom would be of poor flavor or entirely worthless.

Although they do best on rich, sandy soil, they may also be grown on heavy soil by adding some sand and fine, rotted manure to the soil of each hill. Have the ground deeply plowed and finely harrowed. Prepare your hills by removing the soil to a depth of about eight inches and twelve inches in diameter. To this soil add a shovelful of fine, rotted manure (and sand if necessary) and after mixing the whole well together it should be replaced in the hole again. You will now have a hill twelve inches in diameter and about three inches high, on which plant from fifteen to twenty seeds, covering about one-half inch. As the plants are very tender the seed should not be planted before the nights are quite warm and danger from frost is past.

As soon as the plants are up they should be dusted with wood ashes, soot, or air-slaked lime; the latter seems to be the most effective. These preventives should be applied even if there are no bugs present, for if they are allowed to go a few days undisturbed the whole crop may be ruined. These remedies should be applied early in the morning while the dew is still on, so that it will stick to the leaves; dust it well over and under the leaves.

As the hills should be from four to five feet apart each way, it is not necessary to waste all of this room, but between the hills some early crop like lettuce, radishes or peas may be planted, as generally they will be matured before the vines commence to run. Commence to stir the soil as soon as the plants are up, not only to kill weeds, but also to disturb the bugs if they are present. After the plants are well started and danger from insects is past, thin out to the three best plants to each hill. Keep the soil fine and loose at all times until the vines begin to run; if we are to expect a crop of melons, no grass or weeds should be allowed to grow in or near the hills.

After the vines have attained a length of about three feet the tips should be pinched off. This will encourage the setting of fruits and will make them ripen earlier. When the stem cracks away from the fruit easily they are ripe. They should then be picked, for if allowed to remain on the vine too long they will become soft and mushy. New Fordhook, Rocky Ford or Nettle Gem, Extra Early Hackensack and Early Model are varieties which have proved to be very good.

WILL MULCHING ROOTS RETARD BLOSSOMING?


To the Editor of The Homestead:

In a recent issue one of your correspondents presented an interesting discussion entitled, "Protecting Budding Fruit Trees." The writer touches a very important question and one that is very often at the foundation of things so far as getting a crop is concerned. The method of prevention, however, which he proposes, namely, that of holding back the blooming period by mulching the roots after the ground is frozen for the purpose of keeping the roots dormant until later in the season is not successful and will not do the business. The growers of the irrigation districts are today spending thousands of dollars for tar pots and oil for the purpose of fight-

ing the frosts next spring. The method of mulching the root system would be far cheaper and simpler in every way, and these growers would be only too ready to resort to it, as would also those in our own state if the plan were successful.

An apple tree operates on the principle of "making hay while the sun

Be sure this Label is on the package



MANUFACTURED ONLY BY THE
SWIFT'S
ARSENATE OF
LEAD
MERRIMAC CHEMICAL CO., BOSTON, U.S.A.

You Can Win Your Battle with the Bugs

Losses of fruit and vegetables through leaf-eating insects are enormous, and unnecessary. Thousands of farmers have cut down that loss ninety percent by spraying with Swift's Arsenate of Lead—this is a matter of record—will you send for it?

Swift's kills all leaf-eating pests, is washed off the leaves only by heaviest rains, cannot scorch or burn foliage, mixes readily with water and stays in suspension, and does not clog the pump. It increases both quality and quantity of yield.

Send for valuable book on leaf-eating insects. Give your dealer's name.

Merrimac Chemical Co., 41 Broad Street, Boston, Mass.

Fill the Hopper Turn the Crank Machine Sorts Corn in 4 Sizes



Raise 5 to 15 Bu. More Corn Per Acre

You can't afford to be without a machine that will do this. The cost is small and the increased profit greater than from anything you have on the farm.

More Corn And How to Get It

Raise More Corn

LARGER CORN BETTER CORN

By Grading Your Seed Corn with a Morecorn Sorter

This wonderful machine is the greatest of recent inventions. Will pay for itself several times over each season because the machine makes it possible to

In 4 sizes, enables your planter to work evenly and drop 3 kernels to a hill 95 times out of 100. This is important. If you plant ten acres or more of corn, get a Morecorn Sorter. It means a larger, healthier stand than you ever had before.

WRITE FOR FREE TRIAL OFFER

The Morecorn Sorter is so far ahead of any other that we will gladly send you one on free trial. Test it, try it. Sort the season's corn. If it's not satisfactory, if it doesn't fulfill every claim, it will cost you nothing. Write us

MONARCH SELF FEEDER CO.
CEDAR FALLS, IOWA
Dept 25

Write For Our BIG FREE CATALOG TODAY



12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruiters, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS of HARDY "BLIZZARD BELT" fruits by next mail. Address


THE GARDNER NURSERY COMPANY, Box 202, Osage, Iowa.



NATURE'S WAY SEED TESTER

requires no NUMBERING—no Bookkeeping—no ARTIFICIAL INCUBATOR LAMP methods, no PROFESSIONAL BOOSTING, borrowed or paid for, and resorts to no TRICKY TRADE TRAFFICS. Full information free. Address,

A. G. WEANDER, Sioux City, Iowa



SEED CORN

seed flax, garden seeds, etc. Catalog free.

We are the exclusive agents for H. J. Goddard's "SUPERIOR KING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern-grown seed corn. "Lovers, timothy, alsike, mixed timothy and alsike, "primus" will-proof

THE ADAMS SEED CO., Box 1, Decorah, Iowa.

Maule's Seeds

**Once Grown
Always Grown**



Many people are now thinking of their garden for the coming season. Don't you think it would be a great satisfaction to deal with a house that gives you

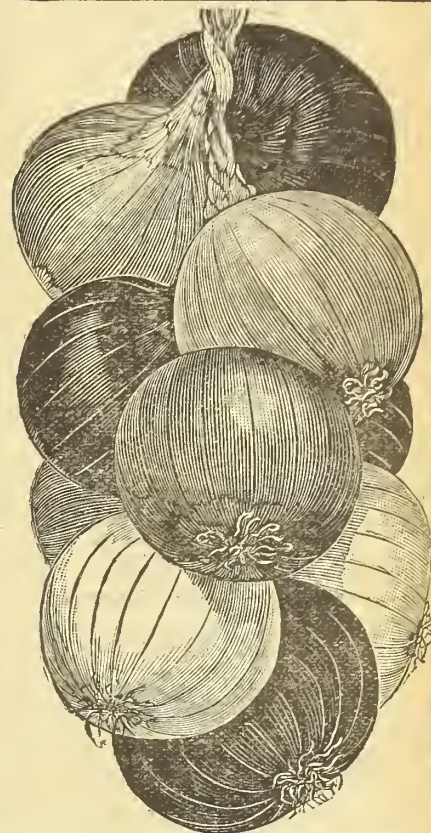
Your Money Back if Not Satisfied?

This is what I do. Certainly Maule's Seeds must be equal at least to the best, or I could not afford to make such an offer. *I want to send you my new catalogue for 1910 absolutely free.* (The first edition cost \$63,000.) If you make a garden this year send me your address and my catalogue will be forwarded by return mail.

WM. HENRY MAULE

1752 Filbert St.

PHILADELPHIA, PA.



**Don't Fail To
Write To
Galloway
Tonight**

See his
Big Ad
on
Page 39

Hoyt's Evergreens

Grow 30 feet in ten years, 60 feet in 25 years. Cultivated "rooty" stock that has the growing habit. Our methods are correct, as shown by 40 years' success. Order direct from proprietors. Scotch Pine, 18 to 24 in. \$10 per 100, 2 to 3 ft., \$15 Norway Spruce, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25 White Pine, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25 Arborvitae, 12 to 18 in. \$10 per 100, 18 to 24 in. \$15 Other sorts and sizes; also carload lots very cheap. Stock grown at Scotch Grove, Jones Co., Ia. Address Hoyt Bros., Office at Monticello, Ia.

SEEDS FREE--8 PACKETS

To everyone sending 10c. for a pkt. of our Prize-taker, the best tree tomato grown, we will send free one pkt. each of the following: Beet, Carrot, Cucumber, Lettuce, Onion, Radish and Glorious Mixed Flower Seeds. This 10c. refunded with first 25c. order. Send today before this offer is withdrawn. Our illustrated catalog of Garden, Farm and Flower Seeds is sent free. J. W. Jung Seed Co., Dept. 15, Randolph, Wis.

SEED CORN

HIGH yielding, prize winning and sure to grow. Robert's Improved Reid's Yellow Dent won second prize at the International Corn Show at Omaha, 1909. Write today for free corn book explaining how it was raised, full particulars, prices, etc., of seed corn that was the largest yielding yellow corn in the world's class last year. Other varieties also. E. D. Roberts, R. 1, Red Oak, Ia.

We Have a Large Stock

Of all the standard varieties of field corn, and can make prompt shipment. Our corn is all of high germination; price \$2 per bushel and upwards, cash with order. For particulars, write us.

The Waldron Seed Co., Waterloo, Neb.

ODERBRUCKER The High Protein BARLEY

FIRST premium at Omaha in 1908; first, second, third and fourth in 1909. Without doubt the best barley in America. Get our circular, which tells you all about this good barley. We also grow Swedish Select Oats. Thompson Bros., R. 3, Wadena, Iowa.

PRIZE-WINNING SEED CORN

PURE KHERSON OATS and Field Seeds. Write for catalog and prices. AYE BROS., Second Street, BLAIR, NEB.

SEED OATS

I HAVE choice, re-cleaned seed oats for sale—1 Champion, Kherson and Swedish Select. For prices write G. GREGORY, Ralston, Iowa. C. & N. W., main line.

CLOVER SEED

NICE re-cleaned clover and 1909 crop, at \$9 per bu. Re-cleaned timothy, 1909 crop, at \$1.65 per bu., sacks, extra, 25c. Reference—First National Bank. Address MAHER & SON, PRESTON, IOWA.

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.

FOR SALE An early variety of fine white SEED CORN. Write to CHARLES ROWAN, LEXINGTON, ILL.

in midwinter when the ground was frozen solid to considerable depth an opening was made through the wall and one of the branches introduced into the greenhouse. Within a few days this branch came out into blossom in perfect form while the rest of the tree maintained its dormant condition, showing that there is no relation whatever between the condition of the roots and the time of blossoming. In other words, the only way to hold back the top of the tree is to keep the top cold. A tree on the north slope may blossom later for this reason. The same condition may be secured by some artificial means as by shading the top with cornstalks, or other means whereby the buds are kept cool.

In the case of the strawberry we do retard the blossom period of the plant for a period of ten days or perhaps two weeks by mulching, but in this case the plant is of low stature, and the top and all is placed under cover. The mulching of fruit trees will be equally effective if we comply with the same condition, and not otherwise. The supply of food stored up around the buds is, of course, limited in quantity and there is only a sufficient amount to feed the buds for a few days after opening, so that if the roots do not become active in a short time these buds would perish.

The matter of preventing injury from untimely spring frosts is a very important problem and I only regret that the proposed plan of meeting the difficulty by mulching the roots is not effective. A. T. Erwin.

Iowa Experiment Station.

MAKING OUR COUNTRY HOMES ATTRACTIVE.

We spend the greater part of our time in the place we call home, and every person ought to take enough pride in themselves to make their abode as attractive as possible. Nothing adds more to the value of a place or gives a more attractive appearance than good buildings and a well-kept lawn properly planted with shrubbery or flowers. Shrubs are of small size and quickly reach maturity making them of great value around buildings, as they give a place a rounded-out or well-groomed appearance.

Every farm should have a lawn and if drives or buildings interfere they should be open, that is, there should be nothing upon it except grass unless your lawn is very large in which case a showy flower bed or a clump of shrubbery will break the monotony. The proper place for shrubbery is next to buildings or on the outer limits of the lawn. If your buildings are on an elevation shrubbery can be

APPLES, PEACHES, CHERRIES, PLANTS, SHRUBS

Why not have a little fruit of your own; and your front yard decorated with a few hardy, ornamental shrubs and trees? Read every word of this generous offer:

- 2 Duchess apple, 2 years old.
- 2 Wealthy " " " "
- 2 Mo. Greening apple, 2 years old.
- 5 Salway peaches, 2 years old.
- 2 Montmorency cherries, 2 years old.
- 25 Bubach strawberry plant.
- 25 German Iris—fine.
- 1 Snowball.
- 1 Spirea.
- 5 Norway poplars, 3 to 4 feet.
- 5 Concord grapes.

PREPAID

To all points in Iowa, Illinois, Minnesota, Nebraska, Missouri, Kansas, So. Dakota and Wisconsin.

PRICE
\$4.44

Ask for Bargain Bulletin

Think how much more beautiful your home would be with this collection. All the above stock guaranteed absolutely true to name.

Send us your order in 15 days and we will include with the above: One Dorothy Perkins Rose, one Baltimore Belle Rose, one Hydrangea and one Honeysuckle. Address

IOWA NURSERY COMPANY, Desk 3, DES MOINES, IA.

GUARANTEED SEED CORN

GUARANTEED TO GROW. Repeated tests show 90% to 100% germination. Crop was early matured and picked before damaging storms. The preparation is most painstaking and thorough. Each ear is rigidly examined and every lot carefully tested.

30,000 BUSHELS 1909 CROP

We have 30,000 bushels, 1909 crop, home-grown, pure-bred varieties, including Reid's Yellow Dent, Early Yellow Rose, Iowa Silver Mine, Snow Flake, Gold Mine, Wisconsin White, Longfellow, Pride of the North, and others. Sixteen grand varieties.

OUR REPUTATION IS AT STAKE

For over twenty years we have been shipping only good seed corn. You run no risk buying from us. We are in the business every year and stand back of every shipment of seed corn. Our long experience is at your service. Consult us before you buy. Catalog and samples free. Prices: Shelled and graded, \$1.50 to \$2; crated ears, \$2.25. Every bushel guaranteed. J. B. ARMSTRONG & SON, (Seed Corn Growers,) SHENANDOAH, IOWA. Reference: Iowa Homestead. RELIABLE—EXPERIENCED—RESPONSIBLE.


PURE-BRED, TESTED SEEDS

EVERY lot of seed that we put out is subjected to a vigorous germination test. Write for our catalog, explaining our Breeding and Testing Systems and WHY OUR SEEDS WILL GROW. Ames experts select and test our seeds. THE SUMMERS SEED HOUSE, Malvern, Iowa.

CLOVER

THE ADAMS SEED COMPANY, Box 1, DECORAH, IOWA.

"PURITY BRAND" is a guaranty of quality. Blue, Plump, Pure; the BEST that money can buy; carefully cleaned and TESTED AT AMES. There is very little clover in the country equal to our NORTHERN GROWN seed. Also TIMOTHY, ALSIKE, MIXED TIMOTHY and ALSIKE and other Field, Grass and Garden Seeds. Catalog Free.



Vaughan's
Great Seed Onion
Vaughan's Apple Shaped Globe

Vaughan's 1910 Seed Catalog from the Great Central Market is a business book: not a word in it to mislead any reader; only straight talk about the best kinds of vegetables and flowers that expert growers in America and Europe can raise for us—a fact you prove annually on our big trial grounds and by our sprouting tests. It is **FREE**—write today. Enclose 10 cents in coin and receive 1,500 seeds of Vaughan's Apple Shaped Globe Onion, which should produce three bushels of onions. The finest market and private gardens, greenhouses and lawns for the last 33 years have been sown with Vaughan's Seeds.

VAUGHAN'S SEED STORE
84-86 Randolph St., CHICAGO; 25 Barclay St., New York

SEEDS

SPRAYING FRUIT TREES

Is no longer an experiment, but a necessity. Prevents wormy fruit by destroying all insect pests and fungous diseases. Every farmer, gardener, fruit or flower grower should write for our free catalogue, describing 21 styles of Spraying Outfits, and containing a full treatise on spraying fruit and vegetable crops, and much valuable information.

WM. STAHL SPRAYER CO., Box 103 A Quincy, Ill.

GOOD SEEDS
BEST IN THE WORLD
PRICES BELOW ALL OTHERS

I give a lot of new sorts for trial with every order I fill. A Grand Big Catalog **FREE** Illustrated with over 700 engravings of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Illinois

1/4 CENTURY OFFER
FLOWERING BECHTEL CRAB, FREE

A GEM among flowering trees: A theme for poets, extra hardy, flowers double-shell pink, delicious wild crab odor. We give it and our **FREE** beautifully illustrated Nursery Catalog.

A QUARTER OF A CENTURY IN SIoux CITY! In its honor we make a grand offer to all customers. Four beautiful plants: Bechtel Flowering Crab Grand Paeony, two rare vines, six superb Cannas. Too good to miss. Catalog tells all about it, and how to plant, prune and care for trees. Most complete line **EXTRA HARDY** **NORTHERN GROWN** trees, shrubs, vines, bulbs, roses, perennials, paeonies, etc., in the northwest. Quality the best. Prices right. Write today for catalog 25.

SIoux CITY SEED & NURSERY CO., Sioux City, Ia.

GARDEN SEEDS FREE!
FIVE PACKETS FOR TRIAL

We have arranged to give to each new customer absolutely free five regular sized packets of our Superior Guaranteed Garden Seed, your selection. Write today for 25c certificate, which entitles you to these free packets and our big 100-page illustrated catalog, so you may make your selection and become acquainted with our seeds. If you give our seeds a trial we are sure you will become one of our pleased customers. Write today for our big 1910 100-page illustrated seed catalog. Address

A. A. BERRYSEED CO., Box 203 Clarinda, Ia.

NURSERY SNAPS
\$1

20 Budded Peach Trees \$1.00. 40 Concord Grape Vines \$1.00. 8 Budded Cherry Trees \$1.00. They are strong, healthy, ready to grow. Catalogue and 25c due bill free. Write now for choice selections.

Fairbury Nurseries Box 8 Fairbury, Neb.

TREES THAT GROW

Apple 6c, Peach 5c, Plum 12c, Cherry 15c. Best quality, good bearers, grafted stock, not seedlings. Concord Grapes \$2.50 per 100. Forest Tree Seedlings \$1.00 per 1,000 up. We pay the freight.

GERMAN NURSERIES & SEED HOUSE
CARL BONDER REGER, Pres.

Com- of plete line of vegetable, Flower and Farm Seeds. Our large illustrated catalogue free. Also Free Sample packet of "New Concord" Tomato, the best of all tomatoes. German Nurseries Box 114, Beatrice, Neb.

TREES
Fruit, Ornamental and Evergreen trees: Shrubs, Roses, Vines

Everything in the Nursery Line. Beautifully Illustrated Catalogue and Price List Sent **FREE**

Special: 45 Concord Grapes \$1. Nine Cherry trees \$1.

13 Peach trees \$1.00. Write us **TO-DAY.**

WRAGG NURSERY CO., Des Moines, Iowa.

SEED CORN
SOY BEANS

Reid's Yellow Dent, yield 111 bushels per acre; guaranteed to grow. Catalog free. **DOBBINS BROS., Cedarville, Ohio.**

placed near them with much better effect than if they were on perfectly level ground. Dwarf shrubs are also very useful for relieving architectural defects, such as a high wall or foundation, if left exposed the effect is bare, while if some dwarf shrubs are planted about one foot from the wall it will give the appearance of having the buildings pinned to the ground, which is very pleasing and inviting.

Another good place for shrubbery is to plant them at the edge of the lawn or to separate the lawn from the garden or field beyond. Plant the taller growing shrubs in back, in front of these plant some of the dwarf species, while in front of these a row of dwarf growing annuals may be planted, you will then have continuous foliage from the grass to the tops of the tallest shrubs which will give a much finer appearance than if the stalks of some shrubs were exposed. As a tall shrub, Spirea Van Houtteii is unexcelled, it is one of the handsomest and most popular shrubs in cultivation. Thunberg's or Japanese Barberry is one of the finest dwarf shrubs. There are many other varieties from which you may make your selection, but the two varieties named above are unexcelled. Do not plant your shrubs too close but consider their possible future size, plant the tall varieties about five feet apart and the smaller kinds three feet apart, until they reach their full size the space may be filled with dwarf growing annuals or perennials.

Thorough preparation of the soil by deep spading and a liberal dressing of well-rotted manure will be repaid by strong, vigorous plants. All shrubs should be planted as early in the spring as the soil can be worked in fine, loose condition, the plants will then have a chance to make a growth of new roots before hot weather arrives. About all the attention shrubs require is an occasional hoeing to keep down the weeds and some rotted manure spaded in in the fall to keep up the fertility of the soil.

A very showy flower bed can be made as follows; if your soil is poor or gravelly it should be excavated to a depth of about one foot and the size of the bed, the best shape being round. Fill this hole with rich, loamy soil to which a liberal quantity of manure has been added. In the center of this bed plant about twelve tall red or bronze-leaved cannas, having them about eighteen inches apart, around these cannas plant two rows of salvias (preferably the variety called Bonfire), these plants should also stand eighteen inches apart and as a border for the whole, plant a row of dwarf growing annuals such as dwarf nasturtiums, dwarf phlox, candytuft or sweet alyssum.

The seed of the salvias should be started in the house in March so that the plants will start to bloom early. The cannas may also be started indoors, but great care should be taken when setting out cannas which have started to grow so as not to break off the sprouts. If the weather should be dry the bed should be frequently watered as cannas delight in a rich, moist soil. The outlay for such a bed will be less than three dollars and in no other way can you get as much enjoyment out of your money as by having a very attractive flower bed.

THINGS TO BE REMEMBERED IN PRUNING.

To the Editor of The Homestead:

If the pruning is done in the spring, after the sap begins to rise, it causes the trees to bleed with the result that a large amount of nourishment is lost. If it is done in the summer it offers the most favorable conditions for the entrance of fungi to the heart wood of the tree. If the work is done in the fall or early winter, drying out of the tree will take place at a time when no sap is rising from the roots to take its place. The most satisfactory time to prune is in late winter, a few weeks before the sap rises. The tree will then have time to form a callous to prevent loss of sap, and to be all ready to repair the wound at the beginning of the growing season. In cutting off a limb, make the cut clean, cutting part way through from the lower side of the branch and then finishing the cut from above. This method will prevent peeling off a long

GROW CORN THAT WILL MATURE

You can't afford to take chances each year. Your high-priced land, your labor make a good crop an absolute necessity. You have tried that "great big" corn and you've had a lot of "big" soft corn as a result more times than you have had a mature crop.

TRY OUR WIMPLE'S IMPROVED YELLOW DENT

the best and surest variety for northern Iowa and a corn that has given grand results as far south as Oklahoma. It matures. No soft corn if you plant Wimple's Yellow Dent. It will ripen from two to three weeks earlier than your native corn, and it yields big crops too. It has gone as high as 100 bushels per acre and you'll have difficulty in getting a corn that's anywhere near its equal in yield, that will shell out more 'o the bushel of sound corn and which is richer in feeding value.

It took first premium in its class at the 1907 National Corn Show, competing with four different states and 360 entries. It is the favorite variety with those who have tried it. Our company has contracted with Mr. Wimple, the originator of this corn, for his entire output, and it will be sold by no other company. Remember, all of our Wimple's Yellow Dent is grown from selected ears taken by Mr. Wimple from his special breeding plot, where he has succeeded in getting yields as high as 120 bushels per acre.

THIS CORN WON'T LAST LONG—ORDER EARLY

if you want to be sure of getting it. Our catalog describes it in detail and gives price per peck, per bushel and in large quantities. Other reliable varieties of seed corn are also listed such as Minnesota 13, Dakota Gold Mine, etc.

We Have Everything in Field, Grass, Garden and Flower Seeds

Canadian Seed Oats, Dakota grown Alfalfa, etc., seeds of quality at a fair price. We want to do business with you. We know you will be pleased with our seeds and the result they give. Try us this year and you'll come again. Write us today for catalog. It tells all about all our seeds, our big new fire-proof building, one of the finest in the country. No seed company in the Northwest is better equipped for the business. Address all inquiries

O. S. JONES SEED CO., Phillip Avenue North, SIOUX FALLS, S. D.

SEED CORN

Tests 98% or Money Refunded

I GUARANTEE EVERY YEAR I SELL. Order my corn today—keep it 10 days—test it. If it is not as represented, return it at my expense. You run no chances when you buy my high-class seed corn. I take all the chances because I can deliver the goods.


Try my Loufellow (90 Days), you Northern Iowa farmers, or my Wisconsin White or Huron Yellow. Makes 65 bushels and gets ripe. In Central Iowa, plant my Speckled Calico, or my Gold Mine or Silver Mine. I also have Reid's Dent, as fine as grows—sound, ripe and pure. All this corn is early picked, carefully prepared, and shows good germination test.

I PAY THE FREIGHT—I pay all freight charges on either ear corn in crates or shelled corn, sent to all points in Iowa, Nebraska or Illinois.

Our prices, quality considered, are the lowest offered by any reputable seed corn grower, and are as follows:

Ear Corn (in crates), single bushel.....\$3.25; 5 bu. \$3.00 per bu.
Shelled Corn (graded with grader), single bushel...\$2.75; 5 bu. \$2.25 per bu.

ROME ARMSTRONG, R. F. D. 1, SHENANDOAH, IOWA.
(Reference: Shenandoah National Bank or Iowa Homestead.)



Farm Seeds That Grow

Are the only kind you want and are the only kind we sell. Pure seeds, cleaned by the best machinery obtainable. Your order is filled by experienced and careful helpers.

Our stock of seed corn is limited, but is extra good tested seed in standard varieties. White Hulless, Mansbury and Success Beardless Barley Seeds. Our early Java Wheat is exceptionally choice. Velvet Chaff or Blue Stem, best spring variety. Spring Rye, from selected stock only.

FREE---200 MANCUS TOMATO SEEDS WITH OUR 1910 CATALOG
(This offer expires May 1st). Our completely illustrated catalog gives detailed information of the Farm, Garden and Flower Seeds we handle. Write for it today.

GUTHRIE-LORENZ CO., 431 7th Street, DES MOINES, IOWA.

CRILL THE SEED CORN MAN
ELK POINT, S. DAKOTA
HAS GOOD NEWS FOR IOWA FARMERS

I OFFER for sale as long as it lasts: 3,000 bushels 1908 Reid's Early Yellow Dent; fancy ear seed in crates, \$5 per bushel, shelled and graded, \$4 per bushel. 2,000 bushels 1908 Iowa Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 5,000 bushels 1908 Dakota Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 1,000 bushels Early Yellow Murdock; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. This corn has been carefully saved from the year before, in well-aired and ventilated cribs, and I positively guarantee every bushel to test 90% or better, and I believe it will test over 95%. All my corn is raised within 15 miles of Elk Point, South Dakota, and is ten days to two weeks earlier than southern-grown corn of the same varieties. My Guarantee: Every bushel good or every bushel back. I have good 1909 seed corn also. Write today for circular and samples.

L. N. CRILL SEED COMPANY, ELK POINT, SOUTH DAKOTA.

Farm Gates

hang close to the ground and have barb wire at bottom, so they are hog and chicken tight. You can raise them a little to pass over slight obstructions or away up high enough to let hogs run under or to swing over deep snow drifts. They are made of **High Carbon Steel Tubing**, not common gas pipe, but specially made, double strength tubing that is heavy enough to turn all vicious stock.

Cost Less and Last Longer
Sent on 60 days free trial. Write for free book on farm gates.

JOS. B. CLAY, Mgr. Iowa Gate Company
9th St., Cedar Falls, Iowa.

RATEKIN'S 100 BU. OATS

Ratekin's Big Banner 100 Bushel White Oats—The biggest, prettiest, plumpest oat in existence. Side by side with common sorts they yield 100 bushels per acre where other sorts make but 25 to 35 bushels. Strong, stiff straw; sprangled heads; ripens early; never rusts; blights or lodges. There is none like them, and when our stock is exhausted, there is no more to be had. **Samples Mailed Free.** Also our Big Illustrated Catalog of farm, field, grass and garden seeds. A postal card will bring them to your door.

Address **RATEKIN'S SEED HOUSE, Shenandoah, Iowa.**

SEED POTATOES

Clean, clear seed, grown from Red River stock. No scab, no blight. Just such seed as we plant for our large acreage. Guaranteed satisfactory or your money back. Price, \$1.50 per bu.; 5 bu. at \$1.25. Six other varieties, all described in our free catalog. A postal brings it.

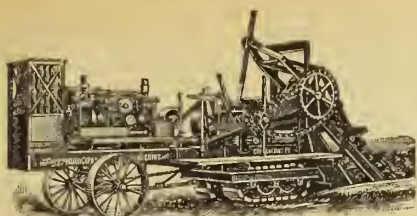
J. B. Armstrong & Son, Shenandoah, Iowa.

FARM SEEDS

Choicest varieties of Seed Oats, Wheat, Spring Rye, Speltz, Barley, Cane, Seed Corn, Dwarf Essex Rape, Clover Seed, Potatoes and all kinds of field, grass and garden seeds. Large, illustrated catalog of great value to farmers free. Mention this paper.

Iowa Seed Co., Dept. D1, Des Moines, Iowa.

When Writing to Advertisers Please Mention This Paper



PURCHASE AN Austin Tile Ditcher

It will dig from 3,000 to 5,000 lineal feet per day and make you more clear money than the best 160-acre farm in your county. If you have decided to branch out for yourself this year, arrangements should be completed at once, as spring will be here almost before you know it.

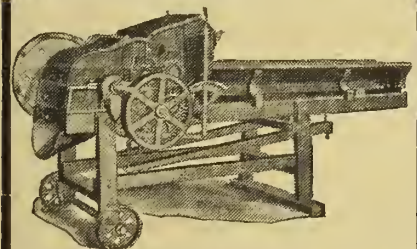
The Austin Tile Ditcher is the only ditching machine made that has positively self-cleaning buckets, hence will dig gumbo or sticky clay without clogging.

It is self-propelling and will travel over wet and boggy ground without miring. For further particulars send for Catalog No. 311. Agents wanted in unoccupied territory.

F. C. AUSTIN DRAINAGE EXCAVATOR CO.
Railway Exchange, Chicago, Ill. (1)

The New GLOBE Silo Cutter

AFTER many years of experience in the manufacture of Feed Cutters, we have finally succeeded in getting up a machine which is absolutely safe and our machine is constructed so it does not require a man to feed, as other machines do. It has a double apron arrangement. The top apron is made up of two rollers with a chain apron running over same which draws the fodder into the press roller. The bottom apron also runs over the roller. This makes a strictly self-feeder and there is no danger of getting caught in the feed rollers.



The Globe Safety Self-Feed Ensilage and Silo Cutter.

The knives are 16 inches long, and the machine can be reversed while in motion by a lever. The machine is strong and durable and without doubt is the best safety self-feed machine on the market. Our catalog fully describes and illustrates our full line of ensilage and silo cutters; also our Globe stationary and portable gas engines, sawing machines, horse powers, etc. May we send you a copy? It's free.

Globe Foundry & Machine Co.,
Sheboygan, Wisconsin.

TESTED SEED CORN MINNESOTA CROWN

I have both yellow and white seed corn that will get ripe anywhere in the corn belt. The ears are from 8 1/2 to 11 inches long. The test is from 90 to 95 per cent. Went 80 bus. to the acre last year. You take no risk with this corn. Ripens in 95 days. For 10 days only I will sell it shelled, in bags, at \$3.00 per bushel f. o. b. Clear Lake, Iowa. Don't risk southern-grown corn.

M. Lytle, Seedsman, Dept. I, Clear Lake, Ia.

You Forgot to Write to Bill Galloway Last Time

See his Big Advertisement on Page 39

SEED OATS

I HAVE Early Champion Oats for seed; best for seeding grass with. Do not lodge or rust as late oats do on rich land. Also medium red clover seed; sample on request. G. Gregory, Ralston, Iowa.

The PLATTE VALLEY RED CEDARS
GROWN from seed, have no equal for wind-breaks; hardy and vigorous anywhere. Write for price list.
L. E. GARLAND, AFTON, IOWA.
Successor to Garland & Fowler.

SEED CORN I have 1,000 bushels Minnesota 13 that yielded 66 bushels per acre. Test as made by South Dakota Agricultural College, \$2.4 per cent. Price \$1.50, on ear only. If shipped, add 25 cents for new sack. Particulars by mail.
H. E. Mayhew, Letcher, South Dakota.

When writing to advertisers please mention this paper.

piece of bark as often happens when the cut is wholly made from above.

Cut at right angles to the limb, rather than parallel with the trunk. Make the cut at a point just beyond the bulge of the branch at the trunk where the cut surface will be smallest. Remove dead limbs whenever they are found, regardless of season. When pruning off large limbs never neglect to paint the cut surface, except in wood-lot pruning when such an operation would scarcely ever pay. The paint is used in tree surgery just as an antiseptic is used in animal surgery, to keep out disease germs while the wound is healing. White lead paint is an excellent material for this purpose. In pruning evergreens no paint is required, as the resin coming from the wound is a natural dressing.

Evergreens should be watched to see that the leader does not get broken off by the wind. In case the leader does become broken, several of the side branches will endeavor to take its place and this will result in a blunt, bushy crown unless attended to. Prune out all of the side branches that are attempting to grow straight up, except the one nearest the center of the crown which will in a short time form the new leader.

Avoid forks by pruning out one of the limbs that make the crotch, before it gets large enough to cause damage. When the tree is young, prune off the lower branches to the height that you wish the mature crown to be, remembering that this height cannot be lowered after the head is once formed.

Do not prune the tree too severely at one operation or it may result in a top-heavy tree that is of an unnatural form and is liable to be broken off by the wind. Never cut a limb unless you know why you do it. Keep an ideal form of the species you are working with continually in mind, and do your best to shape the tree to this ideal. W. G. Baxter.

SEEDSMEN AND THEIR CATALOGS

Nature's Seed Tester.

The advertisement of Mr. A. G. Weander, on page 22, presents some new ideas on the seed-testing question. Mr. Weander presents Nature's Way seed tester. The arguments are all in the advertisement. Full information may be had by writing to Mr. A. G. Weander, Sioux City, Iowa.

A \$63,000 Seed Catalog.

Sixty-three thousand dollars looks like a good deal of money, but that is just what it cost Mr. Wm. Henry Maule, the noted seedsman, of Philadelphia, Pa., to prepare the first edition of his catalog for 1910. This catalog, as is advertised on page 23, will be sent free to any reader of The Homestead who writes for it to Mr. Wm. Henry Maule, 1752 Filbert St., Philadelphia, Pa.

A New Friend to Fruit Raisers.

The advertisement of the Merrimac Chemical Company, on page 22, should be carefully read by every farmer who raises fruit, as well as by professional fruit growers. It tells some of the advantages of Swift's arsenate of lead as a spraying material. It is thoroughly effective in its destruction of all leaf-eating pests, mixes readily, is absolutely harmless to the foliage and does not wash off readily. The firm publish a valuable book on leaf-eating insects which may be had by writing to the Merrimac Chemical Company, 41 Broad St., Boston, Mass.

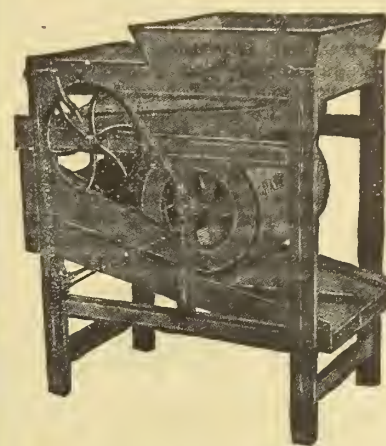
The Value of Windbreaks.

The past winter has been one which taught the western farmer the need of a windbreak. A careful observation of those farms which were protected by good evergreen windbreaks revealed the fact that the houses and barns were more comfortable, that the stock in such places required less feed and suffered less from the severity of the winter and that there was a general air of comfort all around. These facts should direct the attention of our readers to the advertisement of the Home Nursery on page 22. The management has published a book on the subject of evergreens and a discount card which notes special prices to buyers direct. Do not delay, but write at once to Mr. Irvin Ingels, proprietor, Home Nursery, Sta. 34, Lafayette, Ill.

Vaughn's Garden Seeds.

Vaughn's Seed Store, of Chicago and New York, is advertised on page 22 of this paper. Vaughn's is one of the old-time seed establishments. It furnishes garden and flower seeds without end, both the old, homely sorts and later, more improved varieties, and at prices as cheap as any other seedsman can produce them. Note in the advertisement of Vaughn's seed catalog that in order to get the book in the hands of every farmer who makes a garden they will mail it and nine packages of splendid flower seeds for twenty cents. While all of these are good, some of them are especially fine. They include sweet peas, kudzu vines, poppies, pansies, nasturtiums, marigolds, morning-glories, cosmos and coxcombs. Send twenty cents to the

BUY A GRAIN GRADER AND CLEANER



Don't put off a single day that you can help. It will soon be time to put in the oats. You can't afford to sow oats that have not been cleaned for two reasons.

First. Uncleaned oats means that the weed seeds are still in and the sowing thereof means a foul farm.

Second. Ungraded seed means the sowing of immature, light, chaffy grain with the good seed. You cannot therefore expect as good a stand or as thrifty a growth. Either of these reasons is sufficient in itself to justify your purchase of a fanning mill or grader and cleaner.

The Hawkeye Grader and Cleaner Means Clean Farms and A Good Stand

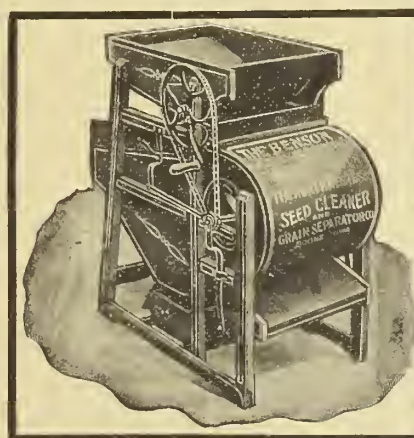
when your small grain is cleaned therewith. It grades and cleans wheat, oats, grass seed and seed corn. No need to have two machines when you buy the Hawkeye. You can both clean and grade your small grain as well as sort and grade your seed corn with this machine.

IT'S THE CHEAPEST GOOD GRADER

you can buy. Just the right capacity for your own use. Write us today for catalog and full particulars concerning The Hawkeye. Don't put it off; you have no time to lose. Do your part to make your grain crop this year the best you have ever grown. Address

THE MAYTAG COMPANY, 500 North St., NEWTON, IOWA.
Successors to PARSONS-HAWKEYE MANUFACTURING CO.

Farmers, Attention!



THE BENSON SEED CLEANER and GRAIN SEPARATOR WILL SAVE ITS COST THE FIRST SEASON

IT WILL SEPARATE—

Chess and cheat from English blue grass—
Buckthorn from first-grade clover seed—

Red top from clover and timothy—
Oats from first-grade wheat—
Rye, cheat and cockle from first-grade wheat.

It will separate wheat into two grades.

It will clean and grade all kinds of grass seed.

It will take mustard out of oats.

It will grade corn, beans, peas.

Do not buy a cheap fanning mill or grain cleaner until you have seen and tried the Benson Seed Cleaner and Grain Separator, for we know it will suit you. For other particulars address

The Northwestern Seed Cleaner and Grain Separator Co., Boone, Iowa.

\$500 GIVEN AWAY!

Suggest a name, please, for Mr. Salzer's wonderful new seed corn. Get \$500 in gold for your "trouble." The new Corn can not be sold this season. It is too scarce. Samples can be had for 4c stamps. Whether you get a sample or not, send in a corn name. Costs nothing to enter contest, which ends May 10th, and learn the superiority of

Salzer's Reliable Seed

Plant Salzer's Seed Corn, Oats, Potatoes, Tomatoes, Strawberries, etc. Every kind of reliable farm or garden seed at lowest prices. Salzer's Seeds never fail; sprout quickly; grow rapidly and produce heavily. It is a positive fact that Salzer's pedigree oats, barley, wheat, potatoes, clovers and vegetable seeds will increase your yields from 25 to 100 per cent. This has been proven a thousand times by our customers in the past years, for Salzer's seeds never fail. Try us once and double your yields. Salzer's Seeds are bound to do it. Salzer's Big 1910 Seed, Plant and Tool Catalog Free. Name the nameless corn to-day. The big contest is getting "warm." Decide now! You may win the \$500 prize! Should another person offer same (acceptable) name, the prize will be equally divided.

JOHN A. SALZER SEED COMPANY,
124 S. 8th St., LA CROSSE, Wis.

SEED CORN

Guaranteed first-class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you at which kind is best for your farm. 20 years' experience at your service. J. B. Armstrong & Son, Shenandoah, Ia.

Moore's High-Yielding Strain of Reid's Yellow Dent Seed Corn

MEANS 10 to 25 bu. increased yield per acre wherever planted. We have a limited supply of extra fine ear seed, selected early and showing very high vitality test, and we offer it while it lasts at \$4 per bu., 5 or more bu. at \$3 per bu. Sold only in car, subject to approval and test, and guaranteed to test 94% or better, or money refunded. Send order at once to

C. MOORE & SON, KELLERTON, IOWA.

Vaughn Seed Store, 84-86 Randolph St., Chicago, Ill.

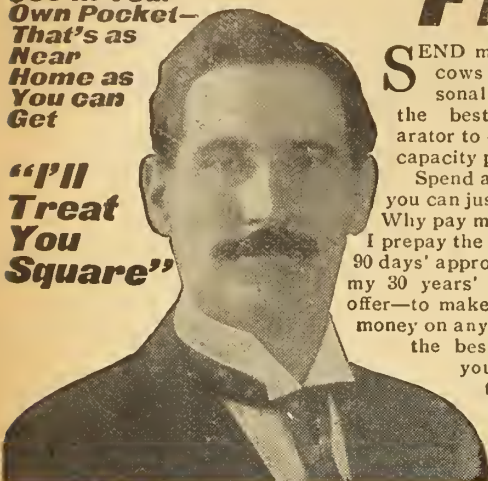
Some Nursery Bargains.

No fruit planter can afford to buy a season's planting without having consulted the advertisement of the Fairbury Nurseries as found on page 24 of this paper. Among the great bargains there offered for a single dollar are

twenty budded peach trees, or forty concord grape vines, or eight budded cherry trees. These are all good, strong, healthy plants and ready to grow. The catalog is a good one, well illustrated and gives a lot of equally low prices. It together with a due bill for twenty-five cents will be sent free to everyone who writes to the Fairbury Nurseries, Box S, Fairbury, Neb.

Keep \$25 to \$50 in Your Own Pocket—That's as Near Home as You can Get

"I'll Treat You Square"



Let Me Send You My GALLOWAY Bath-In-Oil SEPARATOR On My Real 30 Days' Free Trial

YOU can test the Galloway alongside of the highest priced \$85 to \$110 separators sold by anybody today—to prove that my new Bath-In-Oil principle is the greatest invention in separators in history. Gears run in oil like a \$5,000.00 automobile. Dust-proof—no oil-hole. Impossible to heat or wear or put out of commission the splendid mechanism which gets you the biggest profits—all the cream—all the butter fat. All gears enclosed—handsomest machine made (as you can tell below by the illustration), milk and cream spouts high for cans; lowest revolving milk tank, only 38 inches high; so no high lifting. The Galloway is the easiest to clean, with few parts, which come out easy and cannot get back out of place; easiest to run; high crank; low tank; no high lifting and no "back breaking" cranking. Gets the finest cream qualities—and all of it. No lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down. Skims closest, in any climate or season, no matter whether your milk

Friends—

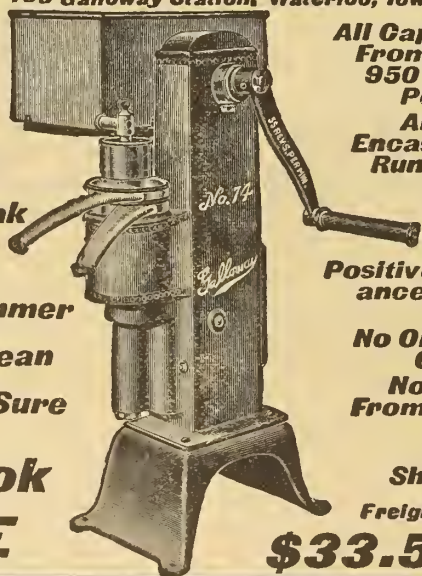
SEND me your name—just tell me how many cows you milk, and I will write you my personal advice so you can try for 30 days free the best Galloway Bath-In-Oil Cream Separator to do your work—over 200 to 950 pounds capacity per hour, according to your needs. Spend a cent now, this way, for a postal and you can just as easily save from \$25 to \$50 as not. Why pay more when for only \$33.50 and upward, I prepay the freight to you on 30 days' free trial—90 days' approval test, if you say so, and give you my 30 years' guarantee? You cannot get a better offer—to make you more money or save you more money on any separator made—and I will send you the best separator in the world today and you can prove it without any salesmen there to talk you over. Why not send Galloway your name today and let me write you personally and send you my splendid, big, color-illustrated separator book right away.

Wm. Galloway, President
THE WILLIAM GALLOWAY COMPANY OF AMERICA
103 Galloway Station, Waterloo, Iowa

Revolving Milk Tank Only 38 Inches High

Highest Crank
No Stooping
Closest Skimmer
Easiest to Clean
Simple and Sure

Big Book FREE



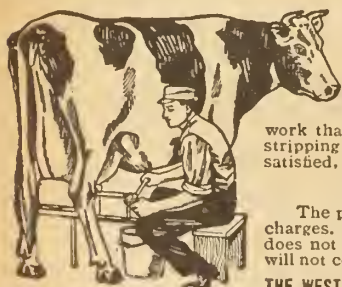
All Capacities From 200 to 950 Pounds Per Hour
All Gears Encased and Run in Bath of Oil

Positive Insurance Against Wear
No Oil Cup or Oil Holes
No Danger From Getting Caught
Prompt Shipments

Freight Prepaid \$33.50 and Up

"Oh" Wm. Galloway, President

The Milker That Milks Right



The Western Milker operates on hand-milking principle. Milks to the last drop. Cow is quieter and gives down better than for hand milking. So simple and easy to operate that a boy can easily milk a herd of cows as fast as two men can by hand. Fully warranted and can be entirely depended on. Positively will not injure or dry up cows. Adjustable to any length of teats, to small and large teats on the same cow and to hard and easy milkers. Does cleaner, easier, quicker and better work than by hand. No other machine compares with it. No hand stripping required, as with other machines. All users are completely satisfied.

PRICE, \$12.00—A TRIAL FREE

The price is \$12.00 sold on ten days free trial. We pay all express charges. Prove our claims by using the machine for ten days. If it does not do all we claim, we will take it off your hands, and the trial will not cost you a cent. Write for full particulars to

THE WESTERN MILKING MACHINE CO., 244 N. 3rd St., STEVENS POINT, WIS.

Blacklegoids

Simplest, Safest, Surest Vaccination for the prevention of

BLACKLEG IN CATTLE

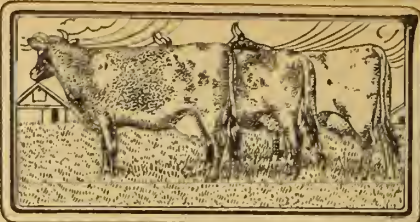
NO DOSE TO MEASURE. NO LIQUID TO SPILL. NO STRING TO ROT.

Just a little pill to be placed under the skin of the animal by a single thrust of the instrument. You cannot afford to let your cattle die of blackleg when a few dollars spent on Blacklegoids will save them. Write for circular.

PARKE, DAVIS & COMPANY

HOME OFFICES AND LABORATORIES, DETROIT, MICH.
NOTICE.—For a limited time we will give to any stockman an injector free with his first purchase of 100 vaccinations.

DAIRY



All communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

WATER: KINDS AND COMPOSITION

To the Editor of The Homestead:

Since water constitutes such a large percentage of the body and is so necessary to the proper performance of the various bodily functions, it may have much to do with predisposing to or averting disease, according to whether it is pure or impure, plentiful or scarce, or holds in solution or suspension substances in undue proportion or of a deleterious nature. Water may be a very important factor in the spread of disease, or it may be a constant source of infection, as is found in some shallow stream, stagnant pond, low-lying pools or lakes having no drain. Water is a common means for the transmission of ova of animal parasites, especially tape-worm, liver and the various intestinal and lung worms.

Pure water should have an absence of color, taste, smell and extreme hardness. The more water deviates from this the more it passes into the other class.

The impurities found in water are of several kinds, but may be primarily divided into organic and inorganic. The organic, or the various animal and vegetable substance varying from disease-producing matter to harmless vegetation; the inorganic impurities are the salts of the various metals. These impurities are taken into the water in various ways—during its passage through the soil, while standing in ponds or pools, during its passage through rivers and canals, pipes, etc., or after delivery at its point of consumption. If the ground is charged with decomposed or decomposing animal and vegetable matter, the water derived from this ground will contain the decomposition products in solution. The degree of soil impurity depends upon the power the ground possesses of oxidizing or destroying the filth that is carried into it. The more rapidly the destruction of filth goes on, the less the water will be contaminated in passing through the soil. Moreover, the porosity of the soil, when of considerable depth, will act as a filter.

In deep, porous soil where rapid oxidation of organic matter occurs we have water of a pure type, and the more we depart from these conditions the more impure the water will be. The presence of salts in great abundance will affect the purity of water, for lime, magnesia, soda, potash, iron and aluminum are readily acted upon by the water. In gravel formation it is usual to find pure water, particularly so if away from towns. Where clay exists the water is usually impure. In alluvial formation it is generally bad. In limestone and chalk districts the water is usually organically pure, but contains a large amount of matter rendering it exceedingly hard.

Surface waters are always impure because of the large amount of organic matter they contain. During the passage of water through rivers or canals impurities gain access from sewerage and refuse. The impurities found in wells are carried from surface washings and soakings through soils impregnated with organic matter. Shallow wells near buildings, stables or manure pits are simply receptacles for filth. Rain water is one of the purest of the natural waters, but varies with the nature of the atmosphere through which it passes. It is always more pure at the end than at the beginning of a shower. Spring water is usually good, but it depends upon the nature of the soil it passes through.

Wells are described as deep, shallow and artesian. A deep well is usually considered of fifty feet or over in depth, or one that has passed below an impermeable sub-strata, as rock or clay. A well less than fifty feet in depth and not having passed through an impermeable strata is considered

shallow. Every effort should be exerted to keep wells from being polluted by the entrance of surface water. All wells should be lined effectively with brick or stone. Shallow wells are always suspicious, as they are but a place of drainage for the surrounding soil. Roughly speaking, a well drains a surface whose diameter is equal to four times its depth. Artesian wells are of great depth. The water supplying them is generally confined in a reservoir between two impervious stratas. The water is organically pure, but may contain an abundance of inorganic salt.

River water is of variable composition. Its purity depends upon the amount of contamination to which it is subjected. Water from sandy, shallow streams in unsettled districts is exceptionally pure.

Augustus Forrest.

FEEDING THE DAIRY CALF.

Reliable estimates place the number of calves grown in Wisconsin at 1,242,700 per year. Of this number about 70 per cent are raised upon skim milk. In order that this may be done profitably it is necessary to not only feed intelligently, but to have the right kind of a calf to start with and the right kind of a cow to produce the milk. First of all it should be borne in mind that the cost of feeding a dairy cow for a year is about \$45 on an average. The cow must actually return this amount before she can begin to make a profit for her owner. Any cow which does not do this had better be turned into the beef herd and so save the trouble of milking her. That a large number of our so-called dairy cows do not meet the requirement named, is strikingly evident to the person who will take the trouble to study the situation. A summary of experiments conducted at the Michigan and Kansas Experiment Stations in which a number of average cows, as they were picked up around the country, were divided into three classes which we may designate good, fair and poor, shows that the first

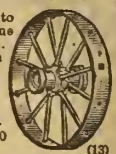
See How Easy It Is!



What's the use of straining, lifting, taxing your strength to the limit to get hay, grain, barrels, bags, wood and stone over your old high wooden wheels. It's the last two feet of a lift that hurts. You can cut off this last two feet by using

EMPIRE LOW STEEL WHEELS

for farm hauling. Change from wood to Empire Steel wheels in 5 minutes any time you want to use your wagon on the farm. Empire Steel Wheels cost only half as much as wood and you double the life of your wooden wheels. You also save your team. By actual tests a load pulled one-third lighter on Empire Low Steel Wheels than on high wooden wheels. Send for catalog illustrating Empire Wheels and Hauling Wagons. 30 days' free trial.



EMPIRE MFG. CO., Box 685, QUINCY, ILL.

YOU NEED THIS FREE SILO BOOK

—To know the profits from feeding silage—to know why the Lansing Silo has them all beat—to know just which style and size meets **your** needs. We'll prove to you that

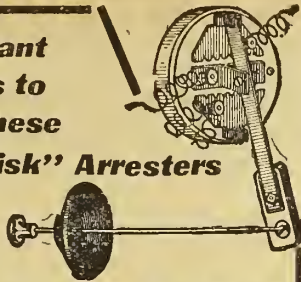
LANSING SILOS

are far the best. That the **one** you choose from our 200 styles and sizes will make the **most** profits. Made of good, old-fashioned, soft cork pine, or choice of 6 other woods. Have strongest All-Steel Hoops with Draw Lugs—and patented Continuous Doorway, with Ladder Front.

Write Now for best book ever written on silos. Read what Experiment Stations say: also evidence from our customers that the Lansing pays best. SEVERANCE TANK & SILO CO. Dept. 312, Lansing, Mich.



We Want Agents to Sell These "No Risk" Arresters



Big Profit--Easy Work

In each home or building with a telephone you'll find a prospective customer. No telephone is safe nor should be installed without a "No Risk" Lightning Arrester. Protects home and family. We allow our agents good commission. One man sold 450 of these "NO RISK" Arresters and cut out; another sold 36 in four days. They are easy to sell, easily attached and easy to operate. You simply pull the button and the telephone is out of danger. Sells for \$2.00. Write today for our "Splendid Proposition" to agents. Make money easy.

W. E. ASHBY TELEPHONE CUT OUT CO.
Formerly of Charleston, Iowa.
420 Phillips Block, Des Moines, Iowa.

YOU WON'T FIND A DEFECTIVE PLANK

in the Minneapolis Panel Silo—it's all No. 1 lumber from the cap to the foundation. Everybody knows what this means—LIFE—LONG DURABILITY. And note this: Because of our unique construction this good lumber silo costs no more than you will have to pay for the old-style stavesilo, which must be made from poor stock to get it anywhere within reach of the average farmer's pocketbook. We use PANELS 2 feet long, tongued and grooved, dovetailed at the ends. All uprights are ONE PIECE. Every bad spot is cut out on the

Minneapolis Panel Shrinkproof SILO

We can't begin to tell you all its good points or what they all mean to a farmer and stockman in this small space—but take our word for it, everyone of them means a *handful of dollars* to you. So in your own interest write us NOW before you forget, and ask us to send you our book on *Silos, Silage and Economical Feeding*. Don't think of deciding on ANY silo until you have read this book and done some thinking about what our exclusive points of merit mean to you.

PUFFER-HUBBARD MFG. CO.
Station F Minneapolis, Minn.
Note—We are distributors in the Northwest for the celebrated *Climax Ensilage Cutter*.

Six Thousand Indiana Silos

IN USE ON THE Finest Farms in America

Is absolute proof that "Indiana Silos are the best in the World."

Ask Any Man Who Uses One!
An Indiana Silo saves half your feed, it pays for itself in one season. High priced feed makes it imperative that you investigate and decide upon your silo now. The best materials make Indiana Silos by far the best. We own saw mills and timber lands, and thereby get stock selected, seasoned and prepared exclusively for our silos.

Write for the reasons why "Early Buyers are Lucky Buyers."
Factories at Anderson, Ind., Des Moines, Iowa, and Kansas City, Mo.

Write for THE SILO ADVOCATE FREE
Today AND OUR SILO BOOK
These contain much valuable information you should have. Address all communications to the General Office of the INDIANA SILO CO., 321 Union Building, Anderson, Indiana. We are the largest Silo Manufacturers in the World.

SEE That Slot THAT'S WHY FENN'S ADJUSTABLE POST HOLE AUGER

Digs different size holes—any soil condition. It has no castings to break—no rivets to work loose. Warranted to do better work than any other or money refunded. Write for prices, etc. The Fenn Manufacturing Co., Box 12, Charlotte, Mich.

No Suction in taking out the dirt.

19,380 Farmers Wrote To Bill Galloway Last Week

Have you sent your name yet? See his big ad on Page 39 and write to him today.

DAIRYMEN

TAKE a look at the **Strite Governor Pulley**. It's the original and "only thing" for driving cream separators with gasoline engines. Once tried, always used. TRY ONE. Ask your dealer for a "STRITE" or write us direct. Don't take an imitation. **STRITE GOVERNOR PULLEY CO.**, 321 South 3d St., Minneapolis, Minn.

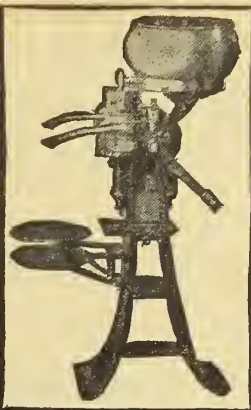
class returned a net profit of \$44 per head each year with butter fat at twenty-five cents a pound, the second class a net profit of \$20 per year while the third class actually lost for its owners \$8 per head.

In connection with the question of feeding the dairy calf, a prime factor then is to have cows of the first class named or something better. This insures the right kind of breeding which is the foundation upon which we may hope to build a useful dairy cow. Now comes the matter of feed. The best bred calf in the world may be developed into an extremely ordinary cow unless it be properly fed. At the same time it should be borne in mind that the best feeding in the world cannot make a good cow out of an inferior calf. After the calf is born it should be helped if necessary to get the first or colostrum milk. This milk is a powerful laxative and on this account is the means of disinfecting and clearing the alimentary tract of the young animal. If for some good reason the colostrum milk cannot be fed to the calf some other laxative should be provided in its place. This matter should not be neglected until the digestion of the calf becomes deranged. The proverbial "stitch in time" at this stage in the animal's life is a vital consideration. The calf may be taken from the cow any time within three or four days. The earlier this is done the easier will it be to break it to drink.

At all times great care must be taken to not overfeed. Giving too much at a feed and not feeding often enough are the causes of nearly all calf ills. The calf's stomach is small, holding only two or three quarts. The youngster is naturally greedy and if given a chance will eat more than his stomach can possibly hold, with the result that a part of the milk is forced directly into the intestine without coming in contact with the milk-digesting fluids of the stomach thus causing indigestion in one of its many forms. In teaching a calf to drink from a pail it is advisable to let it go without feed for twenty-four hours before giving it its first lesson. It might be worth mentioning too that a calf is not benefited by having its head soused into the bucket and compelling it to draw milk into its lungs. At ten days or two weeks of age the calf will begin to eat grain and hay. There are numerous combinations of grain that may be fed, but none are better than a mixture of shelled corn and whole oats. Oil meal is highly recommended by some very successful feeders, but it is hard to understand why a feed which has been deprived of its fat content should be used to supplement another feed that has been deprived of the same element. As compared with whole milk, skim milk is higher in protein and carbohydrates, but lower in total dry matter and ether extract. This last named element must be supplied by the grain, and of the feeds available for the purpose corn must be given a first place with oats as a valuable adjunct for the purpose of variety.

As a rule, hand separator milk is to be preferred above factory skim milk, but the latter has been used with most gratifying results when it has been properly sterilized before leaving the factory. Sour milk might be safely fed if it could be given each feed in a similar state of sourness, but this is a condition that is well nigh impossible of attainment. It is not advisable to feed grain in the milk. The reason is evident. If fed with the milk the calf will gulp it down without chewing. Now all starchy foods need to be mixed with saliva before they can be properly digested. The stomach juices having no effect upon starch. Therefore if grain, such as corn, is taken directly into the stomach no digestion will take place until it reaches the intestine, and here the work will of necessity be imperfectly done as nature did not intend that so great a burden should be thrown upon this organ. Result: A bad case of indigestion. Clear clover or alfalfa hay are not as good for calves as mixed hay or June grass cut at just the right time.—(Address before Wisconsin Short Course.)

The Nodaway (Mo.) Forum predicts that the whiskers and tail feathers of the hog will be seen on all expensive women's hats next season.



DE LAVAL SEPARATORS NOT THE "Mail Order" Kind

The World's Standard DE LAVAL Cream Separators are not sold in the "mail order" way, and therefore not advertised with the big newspaper space and big "word claims" used to sell second and third grade separators in that manner.

Part of the money spent in the sale of inferior separators in the "mail order" way is put into commissions to local agents in the case of DE LAVAL machines, and the buyer of the separator for use gets the benefit of it instead of the newspaper, through the setting up of the machine and the instruction of the buyer in its proper use by the agent, as well as in its occasional looking over and the prompt supplying of any needed parts for it in the years to come.

That's the difference in the method of sale between the DE LAVAL and most other makes of cream separators, which means almost as much to the buyer-for-use as the superior efficiency and durability of DE LAVAL machines.

The difference of merit and method of sale save the cost of the DE LAVAL over other separators in a comparatively short time and make a DE LAVAL machine last an average twenty years, while other separators last on an average from six months to five years, according to their grade.

If you don't know the nearest DE LAVAL agent to you send for a catalogue and his name and address.

THE DE LAVAL SEPARATOR CO.

165-167 BROADWAY NEW YORK	42 E. MADISON STREET CHICAGO	DRUMM & SACRAMENTO BLDG. SAN FRANCISCO
178-177 WILLIAM STREET MONTREAL	14 & 16 PRINCESS STREET WINNIPEG	1018 WESTERN AVENUE SEATTLE

ABSOLUTE SECURITY

Guaranteed to users of Martin's "Old Reliable" Pure Copper Lightning Rods

A superior quality pure copper cable, so constructed that it gives the very largest conducting surface.

Martin's "Old Reliable" has for over 20 years been the **Standard Rod**, and the name has stood as a solid rock for

Honest Goods--Square Dealing
We want to send you our booklets and full information—we want to prove to you how with **Martin's Rods** you can have that feeling of satisfaction that comes of knowing that you and yours are entirely secure from this terrible danger. Write us today. **Do it right now!**

The Martin Company
Dept. A. Sac City, Iowa.

Does the Cows a Heap of Good

Cow comfort and cow sanitation result in more cow profits, and that alone should induce any farmer or dairyman to seek these conditions. Loudon Sanitary Steel Stalls and Stanchions double the light and air in a barn and insure perfect ventilation, perfect sanitation—a result impossible with any wooden equipment. Yet

LOUDON STALLS AND STANCHIONS are actually cheaper. Loudon stalls of heavy tubular steel, with malleable fittings, have no flat surfaces for dust to accumulate—easy to keep clean and almost indestructible. Loudon stanchions give cows more comfort than other makes, yet keep them perfectly lined up. Throat chains prevent cows from lying down when milking. Simple and very durable. Latch easily opened or closed with gloved hand, but can't be opened by animal. Send today for free catalogue of sanitary, money-saving barn equipment.

LOUDON MACHINERY CO., 609 Broadway, Fairfield, Ia.

"Knodig" Separator
At Lowest Price Ever Named

Save \$20 to \$40 on this famous high grade Cream Separator. Company has changed hands and to sell 100 separators in 30 days will quote an **amazingly low price** named only in direct letter to you. Here's the greatest opportunity you ever had to own a "Knodig" at **actual factory cost**. Big Free Trial goes with this offer.

You've heard of this great machine; it's known everywhere—fully guaranteed—best—most economical in the world. Write quick for special **30-day bargain price** and our famous book, "Cream Profits," free.

National Pitless Scale Co., 2105 Wyandotte Street, Kansas City, Mo.

DAIRY TRAIN TEACHES 50,000



Professor Van Pelt, Dr. Roberts and Other Experts Preach the Gospel of Better and More Systematic Dairying to 50,000 of the Farmers of Iowa and Missouri Assembled at 104 Towns. A School of Instruction of Great Practical Value Traverses 2,000 Miles of the Grain Belt



CONDUCTED by the Iowa State Dairy Association, a special instruction train has traversed 2,000 miles of the Burlington railroad in southern Iowa and northern Missouri, has made stops at 104 stations and has spread the gospel of better and more systematic dairying to 50,000 farmers. The train began its tour at Danville, on February 19th, and concluded at Libertyville, on March 9th. The entire Iowa division of the main line of the railroad and practically all the branch mileage in the southern half of the state were traversed. The trips into Missouri territory were incidental, but nowhere was interest greater or attendance larger.

The main speakers on the trip were Prof. Hugh G. Van Pelt, state dairy expert, and Dr. David Roberts, of Wisconsin, probably the most famous specialist on cattle diseases in the country. These men were assisted by a corps of dairy experts and enthusiasts who preached the gospel of better cows and better dairy conditions hour after hour for three weeks. Prominent among those who worked might and main to improve conditions must be named Professor Luick, of the Iowa State Agricultural College, and Mr. G. W. Patterson, assistant state dairy expert.

Throughout the entire itinerary the train was met by large crowds. Neither snow, rain, mud nor cold could keep the farmers away. On some days the train was unable to keep up with its schedule and large crowds of farmers were kept waiting for two or three hours, but in no case did any farmer desert the depot until the dairy train had arrived, the last word of advice had been spoken and the train had departed. One farmer stated that he had walked six miles, over roads so muddy as to be practically impassable, in order to hear the dairy experts and see the thoroughbred stock exhibited as models. "The trouble with too many of us farmers," he declared, "is that we are farmers from the nose down and are vacuums from the nose up." If his statement is true there are a great many cerebral vacuums in the southern half of Iowa which are today filled to overflowing with dairy information and enthusiasm.

That the train was needed is evident from the fact that of the 1,500,000 cows milked in Iowa, 500,000 are producing butter fat at an absolute loss. Professor Van Pelt and his associates believe that 50 or 60 per cent of these cows which are now losses are not to blame, but could be milked at a profit if more care were taken in their feed, shelter and breeding. Over and over again the statement was made that there is only one way in which to tell which cows are making

a profit and which are resulting in a loss, and that is by the use of the scales and the Babcock tester. The Iowa average for butter fat is only 140 pounds a year. Professor Van Pelt and his associates are confident that care and judgment will result in raising this average at least to the Denmark standard: 280 pounds of butter fat to the cow in a year. The southern half of Iowa gives only one-fourth of the state's total of butter fat. It is there that the best field exists for the dairy gospel, and preached as thoroughly as it has been during the past three weeks inestimable good should result.

Here is the message as Professor Van Pelt preached it over and over again, day after day, until 50,000 Iowa farmers had heard the gospel:

"Fifty per cent of the 500,000 cows in Iowa that are making butter at a loss are doing so because they do not have the proper breedings and individuality, and when these cows are found with the scales and the Babcock test (which is the only method of finding them) they should be disposed of.

"Through the use of the appropriation of the last general assembly we have been able to organize testing associations in different parts of the state, and these are developing surprising facts. In most herds are to be found some very profitable cows and others that actually do not produce enough butter to pay for the feed that they eat. It is not uncommon to find in one herd

two cows standing side by side under identically the same conditions, eating the same feed in amounts and qualities, one of these cows producing 100 pounds of butter a year and the other producing 400 pounds a year. Now, even though it were possible to feed the 100-pound cow a year for \$24, still there would be only \$1 profit for keeping this cow during the year, except for the skim milk, calf and manure, which should pay for the labor of caring for her. On the other hand, the cow producing 400 pounds on the same twenty-five-cent butter basis would return \$100 and, even though it costs \$50 to feed this cow for the year, there is \$50 profit.

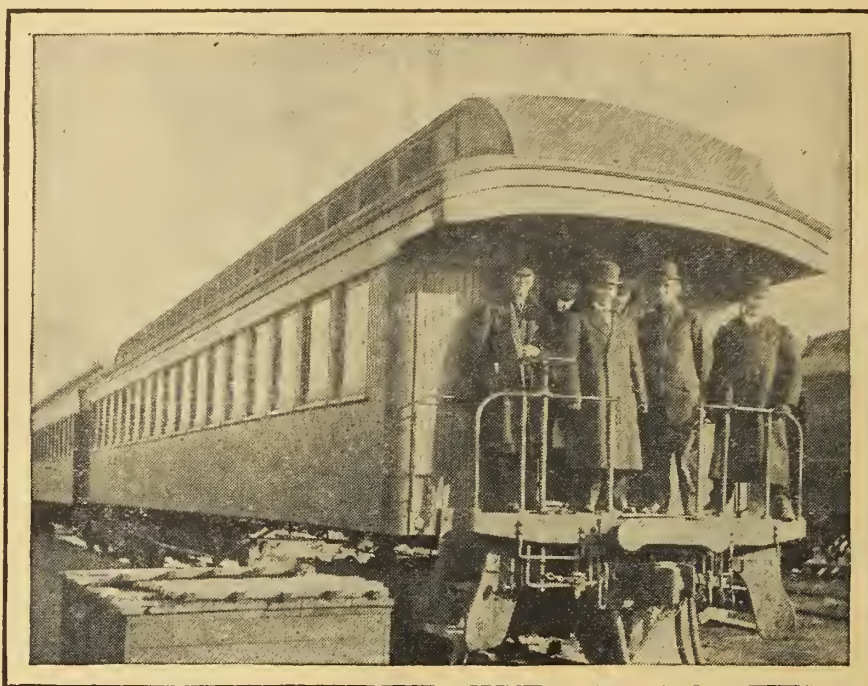
"It is possible to raise two tons of clover hay or four tons of alfalfa hay on the same area that one ton of timothy hay grows. From the standpoint of feeding value, to be used in conjunction with corn, one ton of clover hay is worth at least two tons of timothy hay, and one ton of alfalfa hay is worth at least three tons of timothy hay. More than this, a ton of timothy hay removes from the soil fertility, while by the removal of clover and alfalfa hay the soil is more fertile than before these crops were grown. This is due to the fact that leguminous

crops have the power of taking out of the air nitrogen and depositing it in the soil, and nitrogen is one of the most expensive fertilizing ingredients.

"Millions of dollars' worth of feed in the form of cornstalks are being left out on the Iowa corn fields annually. These stalks, if placed in the silo at the right time of the year, would make one of the most valuable feeds for dairy cows as well as other farm animals. If cut when the lower leaves of the stalks become brown, when the kernel is dented and begins to blaze or at about the time you would cut them to shock just before frost, and at the time when the corn plant contains the greatest amount of feeding value, and you put them in the silo, the resulting feed will contain the same succulence, palatability and digestibility as blue grass supplies in May and June.

"The time is close at hand when the silo will be as common on the Iowa farm as corn cribs at the present time, and had I my choice between the silo, corn crib and hay barn, and could have only one of these three, I would pile the corn on the ground, stack the hay in the field and have a silo in which to store the wasted cornstalks and supply June conditions for the farm animals in winter.

"The combination of alfalfa or clover hay and corn silage fed in proper proportions supplies the same nutrients as does blue grass, and exactly the



DAIRY TRAIN STARTING OUT WITH STAFF.

(Reading from right to left) Dr. David Roberts, Prof. G. W. Patterson, Prof. Hugh G. Van Pelt, Professor Luick.



A TYPICAL VIEW OF THE CROWDS WHICH GREETED THE DAIRY INSTRUCTION TRAIN.

nutrients out of which milk and butter fat are made. If it is impossible for the farmer to raise clover and alfalfa it is certainly not impossible for him to raise sweet clover, for in my travels through the southern part of the state I see sweet clover growing along the roadside, so common that it is termed a weed. Sweet clover contains even more protein, the nutrient which makes alfalfa and clover valuable, than does alfalfa. It is just as reasonable to condemn sweet clover because your farm animals will not eat it as it is for the ranchman of Texas to condemn your corn because his steers will not eat it. Farmers in other parts of the state of Iowa have demonstrated that sweet clover properly sowed, cut at the right time and cured for hay is eaten with avidity by all farm animals. It is even more valuable for pasturage in view of the fact that it is only clover on which cattle will not bloat.

"These hillsides in southern Iowa should be kept in permanent pasture because you all know when they are broken up the rains wash off of them the fertility which now makes them one of the most valuable sections of the world, and the time is close at hand when the farmer in this portion of the state will realize that it is just as necessary to farm his pastures as his corn fields. When you go home look over your pastures and you will find growing here and there a clump of weeds, and bear in mind that every weed is occupying a space on which several blades of grass should be growing. Other spots will be bare that should be productive. If when the frost leaves the ground this spring you will go with a disk, cut up these pastures, loosen the sod-bound grass level them down with a harrow and sow clover, alfalfa and sweet clover seed you will find your pastures capable of feeding even more efficiently two cows where one cow now grazes.

"A cow that gives ten quarts of 4 per cent milk in a week will yield as much fat and fat equivalent as a steer gaining fifteen pounds a week. In addition to this she produces six times as much mineral matter and six times as much protein, which are the constituents that make skim milk valuable for feeding young and growing animals. She accomplished this too with a large proportion of roughage and a small amount of concentrated or expensive food, while the reverse is true of the steer. She is also the greatest maintainer of soil fertility, removing from the farm with a ton of butter, which is worth today on the open market nearly \$700, only forty-nine cents' worth of fertility."

Professor Van Pelt's message was invariably followed up by practical advice by Dr. David Roberts on how to detect and eradicate bovine tuberculosis. Dr. Roberts gave the following excellent talk:

"Tuberculosis is a contagious stable disease. It affects the glands of the body, but is liable to affect any part of it. Most people think it is a disease of the lungs only. There isn't a man living that is bright enough to pick the tuberculous cattle out of a herd. For that reason we must re-

sort to the only test we know of now, the tuberculin test. I feel that there are a great many stock owners at the present time that are firm believers in this test and at the same time there are a great many that are not. If it is a proper thing to test our cattle we ought to do it. If not, some one ought to show us why. If there were no state laws whatever requiring the use of this test I feel it ought to be applied for your own personal benefit. If you have a herd of fifty cattle and you apply the test, finding four or five head afflicted, you can save the balance of the herd. If the state is to pay for these condemned cattle you save the state from paying for the balance of your cattle which are liable to become affected later.

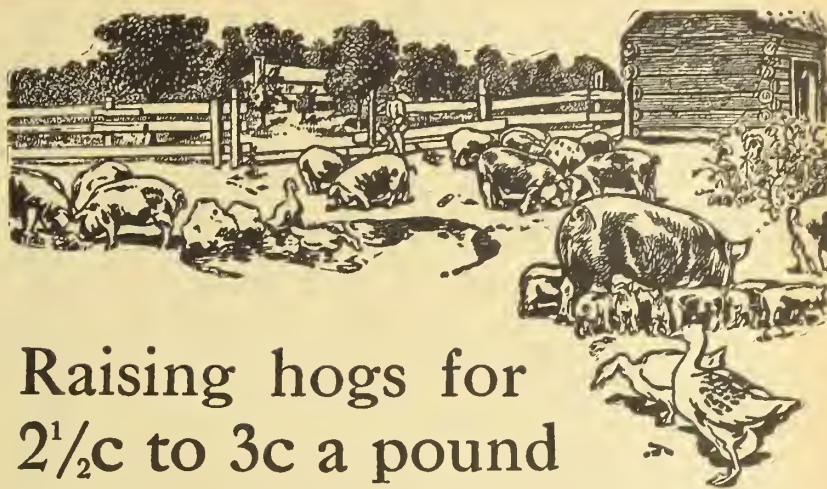
"This test is such a simple, easy test to apply that it would seem that almost anyone would be able to use it with perfect results, and when it is applied as it should be the results are absolutely reliable. In getting the cows ready to test it is wise to water them about noon and house them. Permit them to stand about three hours. At three o'clock you can take the temperatures. The normal temperature varies from 99 to 103 degrees. No animal with a temperature higher than 103 should have tuberculin injected. You take three temperatures, the first being taken at 3 o'clock, then one at five, another at seven. After the seven o'clock temperature you inject tuberculin by the use of the syringe, using two c. c. of tuberculin for the ordinary 1,000-pound cow. After the tuberculin is injected the herd should be watered, and then they should not be watered again until two o'clock the following day unless they can drink whenever they want to. The following morning at six o'clock you take temperatures, then again at eight, ten, twelve and two, at which time the test is finished.

"After the test is finished, if there is an abnormal rising of temperature over the temperatures of the first day your herd should be divided into three classes—healthy, suspicious and condemned. A cow whose temperature raised over 103 or 104 may be considered suspicious. Over 104, up to 107.2, are usually reactors and tuberculous.

"After the test is finished you should take a history of all the animals whose temperatures exceed 104. Kill these animals and you will find they are tuberculous. On the other hand, if you kill the animals showing temperatures between 103 and 104 you are liable to kill some that are not tuberculous. Instead of killing the suspicious animals turn them back into the herd and re-test them. This can be done in six days.

"Tuberculin should not be injected unless animals are in a normal condition. For instance it should not be injected into a cow that has recently aborted or recently been dehorned. If it is, you are liable to get a re-action when the animal is not afflicted with tuberculosis.

"If the stock raisers of the United States were not so frightened over tuberculosis it would be a good



Raising hogs for 2½c to 3c a pound

Hogs can be grown in the Ozarks to weigh 300 pounds without ever having had three bushels of corn—the cost will not exceed 2½c to 3c a pound.

Such results as this can easily be accomplished on a small dairy and stock farm in the Ozarks.

It is all a matter of proper feeding. A hog should have a complete ration. First provide an abundant pasture of grasses, clovers, rape, sorghum peas, peanuts and soja beans. These grow abundantly in the Ozarks. When the hog is well grown on these, prepare a balanced ration of ground rye, barley, soja beans, cow peas, adding, during the last few weeks, a little corn to harden the lard and flesh. Pour the warm skimmed milk from the cream separator over this balanced ration, and feed to the pigs in a clean trough, for a few weeks, and they will become great profitable hogs. Keep the hogs clean and do not let them sleep in old straw stacks or pile up together.

Give them pure water, which is plentiful in the Ozarks, and they

will pay you well for your trouble. Do not depend too much on corn for hog feed—it is the highest priced feed on the farm, when relied on entirely. One acre of corn will sometimes produce as little as 150 pounds of pork, whereas the same land, if planted in peanuts, will produce 1200 pounds of pork. Besides, corn takes nitrogen from the soil, while peanuts will put in from \$2.00 to \$5.00 worth of nitrogen, per acre. Furthermore, corn must be harvested and shucked, while the hogs themselves harvest the peanuts.

Plant peanuts, provide movable fences and let the hogs gather the crop and enrich the soil.

Hog raising is just one feature of intensive farming in the Ozarks. Cows, sheep, mules, poultry and fruit are all very profitable.

A small farm devoted to these pursuits will return a big profit on a small investment of cash and labor.



It will be worth your while to look farther into this. We have some attractive books full of plain facts about the Ozarks. They will interest you. Write for free copies today.



Alex. Hilton, General Passenger Agent, 1509 Frisco Bldg., St. Louis.

thing. They worry day and night for months over their herds, thinking they are rotten with tuberculosis, but when the test is applied they find them perfectly free. They think when a herd is coughing that they are afflicted with tuberculosis. A cough can pass through the entire herd and no animal may be afflicted with tuberculosis.

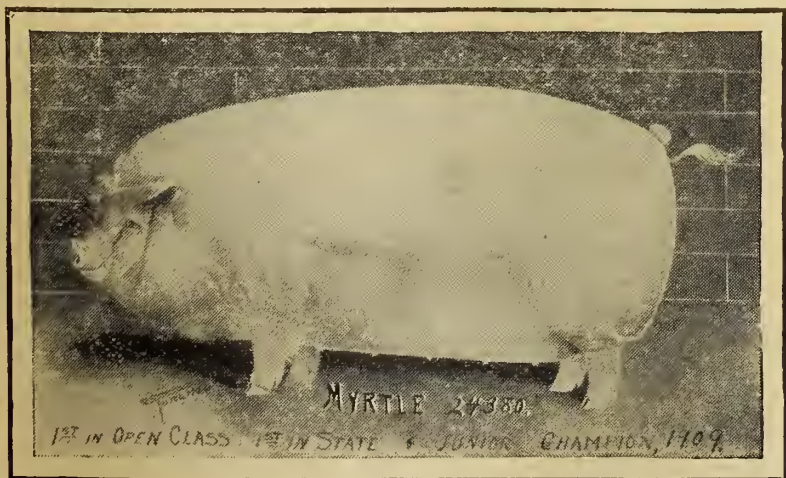
"An animal may be in the last stages of tuberculosis and still not re-act. This gives those who do not believe an opportunity of not believing, but an animal that is so far afflicted as not to re-act is in such a condition that the ordinary person would readily know from the appearance it was not a fit subject to be in the herd. You are amply protected in that way.

"You can not start tuberculosis in a herd unless you introduce the germ. When you find the disease take out the re-actors. Test the balance in two months. If you find more take them out and do this until you wipe out the tuberculous ones. After this test every six months or at least once a year."

The practical effects of the dairy instruction train will not be apparent immediately, but a year or two should

WANTED—Good man for general farm work; good wages for right man. In answering, state experience and wages expected. None but first class need apply. Fred McCulloch, Hartwick, Iowa.

show the good results. Fifty thousand farmers not only heard how to better dairy conditions, but saw model animals and had the good points of these animals explained to them. The train carried four animals: A Jersey bull, grandson of Loretta D. owned by George E. Allen, of Fairfield, Iowa; a Guernsey heifer, daughter of Jessica's Rosette, owned by Grant Enlow, of Fairfield; a second Jersey bull and a Holstein bull owned by Dr. Madison, of Burlington. The farmers were informed that Loretta D. grandam of the Mr. Allen's Jersey bull, won the honors at the St. Louis exposition, producing 330 pounds of butter in 120 days, as much as seven average Iowa cows produce; while the mother of the Guernsey heifer, Jessica's Rosette, won the first prize in the Marsh contest for May, 1909, yielding 8,008.9 pounds of milk in 323 days, the milk producing 543 pounds of butter. The greatest interest was everywhere manifested in these animals and over and over again the importance of a good sire was emphasized.



A PRIZE-WINNING CHESTER WHITE.

The illustration given above is that of the Chester White show sow, Myrtle, owned and shown by Mr. D. H. Lewis, of Geneseo, Ill. This sow was one of those with which Mr. Lewis succeeded in capturing nearly 150 prizes at five of the leading state fairs last fall. These included some championships and other prizes also close to the top. It will be noted in the advertisement on page 58 that Mr. Lewis has for sale some extra good September boars, for prices concerning which write Mr. D. H. Lewis, Geneseo, Ill.

Johnson Wants to Send You a Letter

Friend—

This is a wide open letter to every man and woman who raises chickens for profit. I want to send you my new, big book—and a personal, confidential letter. I'll tell you just how much less than \$10 one of my world-famous Old Trusty Incubators will cost you—freight prepaid. Here's how I do it.


I'm making 65,000 Old Trusty Incubators this year. My "overhead expense"—cost of light, heat, power, etc.—is just the same as it would be on 30,000. I can afford to make less than 8% profit on each incubator because I make so many. If I only made half as many incubators, I'd have to make 16% profit. That's easy to understand—isn't it? It's the Law of Volume. 65,000 incubators are a good many more than anybody else is making this year. So you see how I can afford to make less profit on each machine than any other maker.

But don't think for a minute that I've sacrificed the Old Trusty High Quality in order to get down to my less-than-\$10.00 Freight-Prepaid Price. I want you to understand that Old Trusty Incubators are built up to a standard—not down to a price. No matter how much you pay for any incubator, it can't hatch better than the Old Trusty. I let you prove that yourself by giving you 40, 60 or 90 days' trial at my risk. You can see in a minute that I couldn't take these chances on my Old Trusty unless I were sure it would do the work right, both for new beginners and old experienced poultry raisers.

I haven't room here to tell you about the money-making advantages of Old Trusty Incubators. It takes a good part of my big book to do that. My 10-year guarantee—40, 60 or 90-day trial offer and less-than-\$10.00 freight-prepaid price ought to interest you enough to write me. Now send me the coupon below—or a postal or letter, so I can write a personal letter to you. I'll send you my new, big, 144-page book. It tells the things you want to know about Incubators and Brooders and how to make money with the Old Trusty. Thousands and thousands of people all over the country are making big money in the chicken business because the Old Trusty Incubator is certain and sure. You can do the same. Write me today.

M. M. Johnson—Incubator Man
Clay Center, Nebraska

40
60
or
90
Days'
Trial
on any
Old
Trusty



Let Me Send You This Big Book Free

Less Than \$10 Now and Johnson Pays the Freight (East of the Rockies)


M. M. Johnson, Incubator Man, Clay Center, Neb.
Quote me your less-than-\$10.00 price on an Old Trusty Incubator—Freight Prepaid. Also be sure to send me your Big, Free Book.

Name.....
Address.....

RAYO INCUBATOR

The lamp is where it ought to be—underneath. No wasted heat or oil. One gallon of oil, at one filling, makes complete hatch. Eggs cooled and turned without removal from machine. Automatic blase regulator. Double glass, hinged cover. Eggs, thermometer and chicks always visible. Lamp heats to hatching point in 12 minutes. If not satisfied, return and money refunded. We pay the freight.

Free Trial Saves Labor, Money, Oil Free Book
RAYO INCUBATOR CO.
Burt Street, BLAIR, NEB.




Write To Us And Get Acquainted

With What We Have to Offer A letter or postal—either one will do—then we'll send you our literature and valuable information on raising poultry to make money.

Racine Incubators turn healthy eggs into healthy chicks every time—and give the highest percentage of hatches. They are sure—safe—and simple—made to last a lifetime—sold at prices lower than anybody else will quote you for the same quality—and they make money for you right from the jump and give everlasting satisfaction. Write and get our proposition—our literature is free. Free Trial plan—best ever offered. Don't delay—Write for full information today.

RACINE HATCHER COMPANY, Box 135 Racine, Wis.



POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

PROBABLY LIVER TROUBLE.

To the Editor of The Homestead:

Mrs. L. J. W. Yates, of Nebraska, asks for help in a dilemma:

I shall be very glad for information regarding my hens. They look thrifty and seem all right, but something is wrong. I have lost many birds. The flock seemed better, but yesterday morning found one unable to walk and another one today. They are fat, eat well, but seem helpless. They are affected in different ways. With one of them, her head turns bottom up, then again she will hold her head about right. Again it will keep turning and she has to sit still until it is better. With some their legs draw, toes spread out and they do not seem able to control the legs or feet. They are nice-looking Barred Plymouth Rocks. Have never found any description of the disease. Once affected they never get over it. Had one like these last summer. She would manage to get around enough to eat, but never recovered. I burn sulphur in the hen house and give iron chloride as a tonic. With eggs at twenty-five cents a dozen I hate to lose so many.

This is a peculiar case, but no definite diagnosis can be given, because of the lack of details. Nothing is told of feed given or manner and frequency of feeding. The two main symptoms given, however, point to a digestive cause. Too heavy feeding of highly nitrogenous food with insufficient exercise would be apt to bring on leg weakness and vertigo. The only other reason probable for the leg symptoms would be rheumatism, which might be brought on by cold, damp quarters.

There is a temporary trouble, called "cramp," which comes, like apoplexy, from overfeeding, or from too much fatty matter in the food; from being kept on stone or concrete floors without plenty of litter, and sometimes from imperfect circulation.

In cases of cramp, the feathers "stare," especially across the back, and, though the eye may be bright and the feathers glossy, the bird has no strength at all in its legs.

Such a condition may be helped in a few hours. Soak the legs in hot mustard and water, and when quite warm rub dry, and then anoint them, first with turpentine and afterwards with vaseline. Repeat the treatment after a short period, and relief will come. In order, however, that the symptoms may not return, see that all the birds have plenty of exercise; throw down some small grain among their scratching litter, and give them a large-headed mangold or cabbage to pick at, and make fresh, lean meat a part of their ration.

Leg weakness, which usually shows itself among overforced young table poultry, may be treated as we have advised for cramp, but the treatment, to effect a cure, should be more thorough. While cramp may be relieved in a few hours, if taken in time, leg weakness cannot often be overcome in less than a fortnight. The treatment is thus outlined in an agricultural bulletin as follows:

Put the affected birds quite away by themselves, and do not allow them to perch, but bed them down on peat moss, chaff or bruised straw; feed them chiefly on pea or bean meal, sharps, bran, a good deal of lean meat or green cut bone and green stuff, giving them a teaspoonful of Douglas mixture to every quart of drinking water every other day for a month. On no account let the birds have any hard corn for a couple of weeks, but feed them up on the food already mentioned. That your young birds may not receive a setback of this sort, be careful not to feed overmuch on such foods as corn or corn meal, rice or white bread.

Apoplexy and vertigo are very much of the same order. There is a rush of blood to the head, caused by being too fat, hereditary tendency, violent exercise by being chased, intense heat, indigestion, or straining. The blood rushing to the head, the fowl feels dizzy, staggers as if drunk, or runs about in circles. If, under these circumstances, the amount of blood in the brain is increased, the brain suspends its activity and the

bird falls senseless. When the blood flows away again the fowl will recover unless the influx of blood to the brain has been so strong as to burst a blood vessel, in which death at once ensues.

Diseases of this sort are most common among overfat birds. Reduce the fat by feeding on a low diet for about a week. Temporary relief may be given by holding the bird's head under a stream of cold water for a few minutes and keeping it alone in a partially darkened place. Another method of relief is to cut a small incision with a sharp penknife in the roof of the mouth, and let it bleed slightly. This will relieve the pressure of blood on the brain.

The fat condition of our correspondent's birds will doubtless account for most of the symptoms. As was said in the outset, without data in regard to feeding and housing, no more definite help can be given. The iron chloride may be too strong a tonic. The brain symptoms show that overstimulation in some shape is working mischief.

The formula for "Douglas mixture," recommended above, is as follows: Dissolve a pound of copperas (sulphate of iron) in two gallons of water, and thoroughly stir into this an ounce of the oil of vitriol (sulphuric acid). Keep in jugs and for general use an ounce of it may be put into a gallon of drinking water, smaller quantities in the same proportion. Give not oftener than every other day. This is a powerful tonic, and must be used with judgment. Its use is indicated by the leg weakness, but not by the apoplectic symptoms.

Mrs. S. B. Titterington.

WORMS IN POULTRY.

To the Editor of The Homestead:

The following communication has been received from a subscriber from Perry county, Mo.:

Can you give me some remedy for worms in poultry? Some of my turkeys have tapeworms and some have what seems to be a little, short worm. In a large flock it is very difficult to determine which individual fowl is afflicted. The worms have not seemed to hurt the fowls so far, but I know they should be exterminated if possible. Is there anything I could feed the whole flock that would kill the worms without injury to the poultry? Would corn cooked in lye made from wood ashes kill the worms? I am anxious to find something that will kill them without injury to the poultry so that I can feed it to the whole flock at once. It is impossible to find and treat each bird separately at any one time.

In discussing the subject of worms in poultry we only mention two, viz.: roundworm and tapeworm, which are to be found in the digestive canal of the intestines. The roundworm takes its name from its shape and is the most common, varying in size from one-half to five inches in length, and it is claimed that but few fowls are entirely free from them. When present in large numbers there is a tendency toward stoppage and consequent diarrhea. They are rarely expelled in large quantities and are seldom seen by the attendant because they are eaten by the fowls, so their real presence is rarely known until the bird dies or is killed. A bird that is badly affected with worms gets very thin in flesh, the comb and wattles get pale and a very loose condition of the bowels exists. As to using lye of wood ashes in boiled corn, I cannot say, as I have never tried it. My treatment has always been pulverized charcoal, and if the fowls have access to charcoal, either the pulverized or that sifted from wood ashes is all right and they will never be affected to any extent with worms of any kind. Green food also is a wonderful adjunct to ward off worms of all kinds. Fowls that are most affected with worms are those fed on an all-grain diet.

In the case of our correspondent I

would suggest that it would be better not to trust to a cure by simply letting the fowls eat what they will of the charcoal, but would mix the pulverized into their food at the rate of at least one-half pint of pulverized charcoal to each pail of soft, well-scalded food, and if they do not eat it readily, feed nothing else until they do. In the absence of the pulverized charcoal use sifted hardwood ashes at the same rate that you would use the charcoal, but I would prefer the charcoal if it can be had. The hard part of hard coal ashes is a fair preventive of the round intestinal worm.

The tapeworm is less common and but rarely present. They are made up of short, flat sections, each section capable of developing into a complete worm. I have never in my twenty-three years' experience been obliged to give special treatment for tapeworms. By the use of a variety of foods with the proper proportion of meats and green food each day, with access to charcoal, but little trouble will be experienced. I would recommend our correspondent to feed liberally on chaffed onions. Garlic is also good. Chaff them fine and feed in the morning while the birds are hungry. I compel them to eat it by starving them slightly. Turkeys do not always take to this, for every one knows how susceptible a turkey is to a change of food. In this case, especially in summer when they get other green food, I would disguise them slightly with flour middlings, just enough so they will think they are all middlings. But at this season of the year when fowls are only getting what green food you give them they will take to them very readily. If any single fowl is suspected by droopiness and the above symptoms, of having the real tapeworm, administer five or six drops of male fern in a teaspoonful of water, shut the bird up and watch the droppings closely for a discharge of the dead worms. This remedy is taken from the "Science and Art of Poultry Culture."

A Subscriber.

SICK TURKEYS.

To the Editor of The Homestead:

A farmer from Sabeka, Minn., writes as follows:

Kindly inform me, if possible, through the columns of your valuable paper, what is the trouble with my turkeys, and what can be done for them. I had two sick turkeys which died. First, they refused to eat, and would stand around in a dumpy fashion. They seemed to have the scours. Upon looking in their mouths I found them white and the tongue white and glassy looking. Any helpful information will be greatly appreciated.

From the meager details given, it is impossible to give anything like a definite diagnosis. The color and character of the diarrhea are important as symptoms. Nothing is said as to the care given the turkeys, nor the feeding. A post-mortem examination is well-nigh indispensable if we are to determine intelligently the character of the disease.

If the peculiar, never-to-be-forgotten smell that attends roup were present, I think that this disease was indicated. Blackhead is the almost universal trouble among turkeys in this day and generation, but the patches in the mouth and throat do not usually accompany that disease. It may be canker, although it seems as if the symptoms point more directly toward diphtheritic roup. In canker there is apt to be little indication in the early stages, at least, of illness, while in diphtheria the bird is sick from the first. In this latter disease, the patches cannot be removed without bleeding, while in canker the patch lies more on the surface of the mucous membrane, and is more easily detached. The diphtheritic patches are more of a leaden color than in canker, and there is more or less of a fetid odor, quite distinguishable, however, from roup smell, which is in a class by itself.

A poultryman of long experience gives what he believes to be a sure cure for canker, one which has never failed with him. It is as follows: Six yolks of eggs, one pint of good vinegar, one-fourth ounce of turpentine. Put the ingredients into a bottle and shake well. After it is thoroughly mixed, place it in a vessel of some kind in which the head of the

fowl may be entirely immersed. The head should be held in the liquid for just a moment and not long enough to strangle the fowl. One application each day for three or four days should effect a cure.

Diphtheria is a much more serious matter, and in view of its malignant character, and its contagious element, it is better to kill all birds attacked to prevent a sweeping epidemic. If, however, a bird is especially valuable, peroxide of hydrogen, full strength, should be applied to the membranes. The efficacy of the remedy is greatly increased by adding sulphuric acid, in the proportion of a drop to one teaspoonful of the peroxide. It may be applied with a feather, or any kind of a swab, being careful to burn it after using.

It is also well to add twenty grains permanganate of potassium to the drinking water, and when the membranes have disappeared, give a tonic capsule or pill containing one grain sulphate of quinin and one grain reduced iron.

Of course, the sick birds have been carefully isolated from the flock, and treated individually. Do not turn them to the rest of the fowls until twenty or thirty days after an apparent cure. Every place where the sick fowls have been must be most thoroughly fumigated and cleaned. It is far less risky to kill the diseased birds, even though the loss seems considerable. If they recover, they will be of doubtful value as breeders, as their offspring will always have a constitutional tendency to kindred diseases.

Subscriber.

STANDARD WEIGHTS.

To the Editor of The Homestead:

"Subscriber," of Ayrshire, Iowa, presents the following queries:

Will you please give me the standard weights on all poultry—ducks, geese, turkeys and chickens of all kinds. Also if you buy fowls from a poultry dealer, can you return them if not satisfactory?

The following are the standard weights on the leading varieties of fowls. If our correspondent wishes those of the little known and rare varieties, we would refer him to the "Standard of Perfection," which can be purchased of any poultry publishing company for \$1.50.

Name of Breed.	Cock.	Cockerel.	Hen.	Pullet.
Plymouth Rocks ...	9 1/2	8 1/2	7 1/2	6 1/2
Wyandottes ...	8 1/2	7 1/2	6 1/2	5 1/2
Rhode Island Reds ...	8 1/2	7 1/2	6 1/2	5 1/2
Brahmas ...	12	10	9 1/2	8 1/2
Cochins ...	11	9	8 1/2	7 1/2
Langshans ...	10	8	7 1/2	6 1/2
Minorcas ...	9	7 1/2	7 1/2	6 1/2
Buff Orpingtons ...	10	8 1/2	8	7 1/2
Bronze turkeys: Adult cock, 36; yearling cock, 33; young cock, 25; hen, 20; pullet, 16.				
Pekin ducks: Adult drake, 8; young drake, 7; adult duck, 7; young duck, 6.				
Toulouse and Embden geese: Adult gander, 20; young gander, 18; adult goose, 18; young goose, 15.				

It is the almost universal custom to sell fowls on approval, and this is the habit with responsible dealers. It is better, however, to state this condition in making the deal, and then there is no chance of misunderstanding. Unless otherwise stated, however, it is expected that the dissatisfied buyer should pay return charges on the bird, although a few advertisers offer to meet this expense. It is a matter to be arranged between both parties to the transaction.

Mrs. S. B. Titterington.

FOOD FOR YOUNG DUCKS.

To the Editor of The Homestead:

The food for small ducks should always be of a soft nature. They will not thrive well if fed a large part on whole grain and this often causes a great many deaths. This is especially true of grain of a hard nature. In fact, young ducks should not be fed whole grain at all.

The ration for young ducks should be largely composed of a mixture of ground grains which has been made into a mash by mixing with water and by adding to it a liberal supply of cut green food, that is such food as different grasses of a soft nature, lettuce, onion tops or any other green vegetation that they like. If meat scraps are added to this, it will increase its feeding value for the ducks

Friend: This is My Double-10-Year Guarantee to You

I Guarantee every Ideal exactly as I say, or your money back. For 10 years I will replace all Ideal parts, if defective in materials or work.



J. W. Miller Personal Owner

Over 80 Per Cent Hatches

Here's how my customers prove up my Ideal:

Mrs. F. E. Buell, Charles City, Ia., got 103 chickens from 105 fertile eggs.

J. S. Haley, Eutaw, Ala., got 132 chicks from 138 fertile eggs.

Read all dated letters in my free book of Honest Facts told by my customers.

Get Today My "Tell-How" BOOK FREE

YOU—man or woman, friend-of-mine-to-be—can find how profitable, easy, satisfactory and creditable it is to be in the chicken-raising cash business, with Ideal Incubators and Brooders, if you'll send me your name for my Big, New 1910 Ideal Incubator and Brooder Book.

Don't let yourself miss my this-year's book. Beginners and old-time-experienced Poultry Raisers tell the story—with photographs and helpful advice, which will prove how you can start right and make the most money.

Only \$7.50 to start. Why pay more? Quick delivery—freight prepaid—complete—ready to hatch with. No disappointments.

This price based on my new 50,000 capacity. Write today.

I have something NEW to tell you about 1910 Chicken-Raising for BIGGER PROFITS this year. Let me write it to you PERSONALLY. I tell you the Freight Prepaid Price of my Ideals HERE (Only \$7.50 Complete—No Extras). But let me Write You My Own Chicken-Raising Best Experiences. And Also Send You My Big, NEW 1910 FREE BOOK.

Address me Personally—J. W. MILLER, Proprietor
J. W. MILLER COMPANY, Box 305, FREEPORT, ILLINOIS
(Also Proprietor of Famous Millbrook Poultry Farm.)

Send Me Your Name For My Big "Chicken-Cash" Book FREE

J. W. Miller (Personal)
Box 305, Freeport, Ill.

Send me your Big, Free 1910 Ideal Incubator and Brooder Book—postage paid.

Name, please.....

Address.....

Town.....

State.....

IMPORTANT. Cut or tear out and mail me this Free Coupon or Postal, or write me a letter right away to get ready, and get my Lowest-Factory-Capacity Price—Freight Prepaid—complete, if you want my Incubator at only \$7.50 when you read my book.

YOU need not pay more than \$7.50 now, complete, freight prepaid, for the highest-grade, 10-year-guaranteed Ideal Incubator. My price is now based on 50,000 capacity. Every machine guaranteed perfect—direct to you. Ideal to start. Runs itself, with least watching. Handsome, substantial, safe; galvanized-steel-top, ends, sides and bottom; covering best-seasoned-wood case—insulated perfect; heavy wool felt, making hatching sure in any climate. Tubular copper tank and copper boiler. Perfect circulation; no cold corners or hot centers. Metal-jacket heater-head uses heat twice, saving half on oil cost. Most convenient egg trays and nursery. Every part made on combined best experiences of thousands, so you can hatch and raise the most strong, healthful chickens with

1910 IDEAL INCUBATORS and BROODERS

(120, 175 or 240-Egg Capacity)

CAUTION.—Don't confuse my low price with "knock down" prices, or experiments, or "cheap built" machines. Ideals are as high quality machines as can be made for most practical use. You get my 50,000-capacity savings in the price of one. I bought 12 tons of copper before the rise—also steel (enormous quantities), also wood, long ago, to season it properly. That's the only way I could make you such a machine at such a low price.



ONLY \$7.50 (120-Egg Capacity)

COMPLETE

(Ready to Use—No Extras to Pay)

FREIGHT PREPAID

(East of Missouri River, north of Tennessee. Freight allowed that far on points beyond.)

Facts You Should Know

1. No extras to pay for. Come complete, ready to use.
2. Automatic regulator—FREE.
3. Automatic ventilator—FREE.
4. Metal Lamps; Egg Testers; Thermometer the best made, to get the most strong chicks—FREE.
5. See free catalog for the whole story of Ideals.

Our Guarantee is Backed by a \$1,000,000. Surety Bond

No other machine in the world carries a guarantee that protects you so absolutely as

The Sure Hatch Incubator

We give you a positive guarantee—everything put down in black and white and signed; and, besides this, we actually send you a Surety Bond issued by the Bankers' Surety Company, Cleveland, Ohio.

The Sure Hatch Incubator is built of the very best materials and constructed along lines that always insure perfect hatching results. If this were not so, we could not give the liberal, binding guarantee that we do. The Bankers' Surety Company could not afford to place its entire resources behind our guarantee if the Sure Hatch were not the best incubator manufactured.

Superior Construction makes the Sure Hatch the best Early Season Incubator. We have moved the Hatching period forward several weeks, and with it you can get the earliest birds, that bring biggest prices.

Double Redwood walls; Dead Air Space Insulation; Special Hot Water Heating System; Perfect heat, and fresh air regulation put the Sure Hatch in a class by itself. Our Double Guarantee keeps it in a class by itself. We pay the freight, and give you 60 days' Free trial.

Write today for finely Illustrated Poultry Book. It is free and contains many hints on poultry raising that will be valuable alike to the expert and the beginner with poultry.

Sure Hatch Incubator Company
Box 16 Fremont, Neb.

You are Absolutely Protected



60 days FREE Trial

We Pay the Freight

Know My Incubator— Know My PLAN.

My plan is so liberal that you will enjoy dealing with me, and my "QUEEN" incubator is such a good, substantial money maker for your farm that you and I will both be more than satisfied to become poultry friends.



I Pay the Freight.

Just drop me a line, so I can explain my proposition and let you see pictures and letters of my farm friends who use "QUEEN" Incubators. Please do it to-day. I am still including one of my handy Poultry Record Books with my Catalog. It enables you to keep exact figures on hatching and to know how much you are making. I want you to know these facts when you try out a "QUEEN," because it will prove conclusively that you are getting all the poultry profit that can be made.

Pick out from my catalog the size you want and I will just fix you up to your entire satisfaction—make you a low price, a long time guarantee and allow you an extended trial. Write me to-day or you may forget it.

Wickstrum, The Queen Incubator Man,
Box 10, Lincoln, Neb.

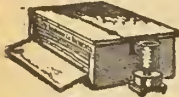
\$7.55 Buys the Best
140-Egg Incubator



We Ship quick from St. Paul Kansas City Buffalo or Racine

Ever Made

\$4.50 Buys the Best Brooder
Both Incubator and Brooder, ordered together, cost but \$11.50. Freight prepaid. The Belle City Incubator has double walls and dead air space all over, copper tank, hot-water heat, self-regulator, thermometer, egg-tester, safety lamp, nursery, high legs, double door. The Belle City Brooder is the only double-walled brooder made, hot-water heat, platform, metal lamp. No machines at any price are better. Write for our book today, or send the price now under our guarantee and save waiting.



Satisfaction Guaranteed
Box 52, Racine, Wis.

100 EGG
HATCHING WONDER
\$10. DELIVERED

Your Name Will Get \$2 Eggs
For 50 Cents Per Sitting

I will sell 2 sittings of full blood Single Comb Brown or White Leghorn Eggs for \$1 for the 2 sittings. Not less than 2 sittings sold. Eggs by the 100, \$5. Full blood White or Barred Plymouth Rock or Rhode Island Reds or Silver or White Wyandotte or W. Orpington or Rose Comb Brown Leghorn or Single Comb Black Minorca Eggs, \$1 per sitting; by the 100, \$5. Large Bronze or White Holland Turkey Eggs, \$3 for 10 Eggs. Large White Pekin Duck Eggs, \$1 for 10 Eggs. 100 egg Old Turkey Incubator, and 100 Chick Brooder, delivered at your R. R. station, both for \$14 each of the Rocky Mountains. This is a rare chance to get a start of extra fine stock and a good incubator. Send Post Office order on St. Louis and have your orders hooked early.

W. F. CHAMBERLAIN, (The Perfect Chick Feed Man)
KIRKWOOD, St. Louis County, MO.

POULTRY PROFITS DOUBLED
If you want \$2 profit where you now get \$1, either from eggs or poultry for market, simply send us your name and address and let us tell you the real poultry secret that has doubled the profits of poultry raisers. It's the only real way to poultry success. Make every fowl a profit earner. Write at once for this information whether you have 3 fowls or 300. It's free to you. Blanks & Hawk Supply Co., 131 Blanks Bldg., St. Louis, Mo.

90% Hatches

from the Cyphers—in every country and climate—for old-timers and beginners. For you. **CYPHERS INCUBATORS** and 3 Brooders are non-moisture; self-regulating; self-ventilating. Write for 100-page Catalog. Address: Nearest City. Cyphers Incubator Co., Department 42, Buffalo, N.Y.; New York City; Chicago, Ill.; Boston, Mass.; Kansas City, Mo.; Oakland, Cal.

BIG PROFITS

result when chickens are free of mites and lice. Use **AVENARIUS CARBOLINEUM** (reg.) for cleaning poultry houses once a year. Write for circulars. Carbolineum Wood-Preserving Co., Dept 97, Milwaukee, Wis.

Breed Prize Winners
We have the stock at right prices—all leading varieties; 100 pens. Write us. Booklet on "How to Raise 43 Chickens Out of 50 Hatched," 10c; Poultry Paper, 1 year, 25c, Catalog Free. **ROYAL POULTRY FARM** Dept. 306, Des Moines, Iowa

When writing mention this paper.

to a great extent. As the ducks in their wild state feed largely upon fish if fish can be had to mix with the food instead of other meat, it will be so much the better, as they relish fish and it keeps up their appetite.

Where meat cannot be supplied, it is well to wet this mixture with milk. It is to some extent a good substitute for meat, but it will be good even if the meat is fed.

Ducks drink much while they are eating and should have a liberal supply of water near the place where they are fed, so they can drink at intervals while they are eating.

Gregor H. Glitzke.

We find fire a grand thing to use in fighting mites, but never use it inside the hen house. More than one house has gone up in smoke by this plan of mite fighting, so it behooves one to be careful. We have the roosts and nests removable, and take them outside every thirty days through the summer season and pass them through the fire. Nests of galvanized iron are soon at killing heat, and they don't scorch or burn.

The mite that escapes now means 10,000 before midsummer.

POINTERS.

—Readers of The Homestead wishing to purchase White Wyandotte eggs should read the advertisement of Mr. Jay L. Smith, of Minden, Neb., that appears on page 33.

—Silver Laced Wyandotte eggs are advertised for sale by Mr. O. M. Healy, of Bedford, Iowa, on page 33. Fifteen for \$1 or 100 for \$5. Write him and send him an order.

—Mr. Geo. Wyland, of Harlan, Iowa, breeds pure-bred Barred Plymouth Rock chickens and is offering eggs for sale at \$1.50 for fifteen or \$6 per 100. See his advertisement on page 33.

—Our readers who are interested in Homer pigeons should write to Mr. J. W. Hopson, of Bedford, Iowa, whose announcement will be found in the proper department of this paper.

—Heavy-boned, large Barred Plymouth Rock cockerels and eggs from prize-winning strains are offered for sale by Mr. Frank Santee, of What Cheer, Iowa, in his advertisement on page 33.

—Mr. Fred Post, proprietor of the Hillsdale Poultry Farm, of Moulton, Iowa, writes us that he is all sold out of White Holland turkeys, but that he has a few choice Barred Plymouth Rock cockerels and Pekin ducks left. He guarantees his stock to please.

—Mr. Raymond Peterson, of Garwin, Iowa, is offering pedigree Scotch Collie puppies for sale in his advertisement on this page of this issue. These puppies are well marked and Mr. Peterson advises us that they will make fine workers. Sire and dam are well trained and are natural heelers.

—Mrs. H. J. Hess, of Waterloo, Iowa, writes: "I have some choice Barred Plymouth Rock cockerels that will be priced low, quality considered, as I need the room. I also have some White Wyandotte cockerels and a few hens and pullets of same breed that are good ones, which I will be pleased to dispose of to Homestead readers."

—Mrs. Geo. Dawdy, of Abingdon, Ill., in furnishing copy for her advertisement found on page 33, writes: "My Barred Plymouth Rock hens are laying well and I can furnish eggs from both pens and flock. My chickens are of the Bradley strain, the cockerels scoring as high as 91½ points." Homestead readers in need of good Plymouth Rock stock should not overlook Mrs. Dawdy's advertisement.

—The advertisement of Mr. C. G. Good, of Ogden, Iowa, which will be found in our Barred Plymouth Rock department, has announced that Mr. Good had for sale eighteen Barred Plymouth Rock cockerels. This was simply a misprint, the fact being that he had 180 of them. With that great number on hand he has been able to supply some splendid individuals. As a good many of them have already gone, buyers will do well to get in their orders early.

—The advertisement of Mrs. L. W. Renaud, of Bondurant, Iowa, appears on page 33. In furnishing copy she writes: "My flock is composed only of Rose Comb Brown Leghorns, therefore there is no chance for mixed chicks. They have had range and have been bred especially for eggs. We have had eggs all winter without feeding for that purpose. I invite anyone to visit me and investigate for themselves, as my flock will stand inspection. I will guarantee satisfaction."

—In his advertisement on page 33 Mr. R. I. Haworth, of West Liberty, Iowa, announces that he has Barred Plymouth Rocks for sale at reasonable prices. Mr. Haworth's birds are proven prize winners. At the West Liberty show last winter they took first, second, third and fourth on cockerel, first on cock, first on hen, first on pen and second and fourth on pullet. He also sold birds that won prizes at some of the largest shows. His pens have been mated with high-scoring birds and he believes that eggs from them will produce winners for next season's shows. Send orders as per above address.

son's shows. Send orders as per above address.

—Mr. Eber Anderson, of Minden, Neb., is offering White Wyandotte eggs for sale in his advertisement on page 33.

—Mr. L. D. Wright, of Knoxville, Iowa, has a few good Barred Plymouth Rock cockerels for sale as per advertisement on page 33.

—Mrs. A. F. Peterson, of Red Oak, Iowa, is quoting prices on White Plymouth Rock eggs and a few hens in her advertisement on page 33.

—Mrs. Jos. Reber, of Roanoke, Ill., can supply Homestead readers with Silver Laced Rose Comb Wyandotte eggs, as per advertisement on page 33.

—Mr. W. I. Mouser, of Red Oak, Iowa, will send circular giving prices for Single Comb Rhode Island Red eggs if you will send stamp. See advertisement on page 33.

—Mrs. John E. Griffith, of Washington, Iowa, breeds Cornish Indian Game fowls and is offering eggs for sale at the prices named in her advertisement in the proper department of this paper.

—The announcement is made in the advertisement of Mr. John M. Hall, of Williams, Iowa, on page 33 of The Homestead, that he is now ready to take orders for eggs from Single Comb Brown Leghorn chickens and Mammoth Pekin ducks.

—Mrs. F. R. McLaughlin, of Manning, Iowa, in furnishing copy for her advertisement offering Silver Laced Wyandotte and Pekin duck eggs for sale on page 33, writes: "My stock is all sold. I have had splendid sales this winter and I am in fine shape for the egg trade. The hens are laying well and my incubators are running."

—Mr. H. H. Hiniker advertises on page 33 of this paper that he has in his yards forty-five different breeds of poultry, chickens, ducks, geese and turkeys. These are fully described in his illustrated incubator catalog which is sent free to every reader of this paper who applies for it to Mr. H. H. Hiniker, Department 5, Mankato, Minn.

—Our readers who are interested in Black Langshan chickens should read the advertisement of Mr. W. W. Baskerville, of Earlville, Iowa, as it appears in the Black Langshan department of this paper. Mr. Baskerville has a fine flock again this season and is in good shape to suit customers. His advertising last year, he says, was very satisfactory and his patrons highly pleased with results. See page 33.

—Mr. Chas. McCaskey, of Ogden, Iowa, in giving instructions to continue his advertisement offering Barred Plymouth Rock cockerels for sale, that appears on page 33 of The Homestead, writes that he has cockerels scoring 91 points and that the hens in his breeding pens score as high as 92½ points. His cockerels have been bred from carefully-selected matings and are vigorous, fine and even-barred birds and extra care will be taken in making selections to suit customers.

—Mrs. E. C. Turner, of Griswold, Iowa, breeds the Fishel strain of White Plymouth Rock chickens and is now offering eggs for sale at the prices noted in her advertisement on page 33. She advises us that her flocks of each year have been headed by the best of prize winners and scored stock. She has three different flocks, but her birds have the run of the farm. Any particulars not noted in the advertisement may be had by writing to Mrs. E. C. Turner, Route 1, Griswold, Iowa.

—In our poultry department will be found the announcement of Mr. J. W. Hopson, of Bedford, Iowa, in which he states that he is now ready to furnish Barred Plymouth Rock eggs for hatching. These are from pens of birds that scored from 91¼ to 92½ points by good judges. They are high quality. Ordinary eggs from the run of the yards will be sold at \$1 for fifteen, those from the most select pens \$5 for fifteen. Orders should be forwarded to Mr. J. W. Hopson, of Bedford, Iowa.

—Mr. J. D. Smith, of Montezuma, Iowa, in sending in advertisement found on page 33, wishes to say he has some fine, big-boned Silver Laced Wyandottes, Bronze turkeys and Pekin ducks from which he will sell eggs. They are all big-framed birds, well marked and good shape. He has been breeding for size and laying quality for the past twelve years and has at last got it, and will sell eggs cheap according to quality. Drop him a card and get his catalog and mating list. It is free.

—In sending in copy for his advertisement found on page 33 of The Homestead, Mr. J. H. Howarth, of Moulton, Iowa, writes: "We have sold all our Barred Plymouth Rock cockerels and all of our Rouen drakes and have just five female ducks to sell. Thanks to The Homestead for finding buyers. We have a good flock of Barred Plymouth Rocks. They are very large, beautifully barred, and are good in shape and comb. They are also of a good laying strain. The males are all large and of excellent quality. This is the flock we will raise our own young stock from and we are offering eggs at

a reasonable cost. Our Rouen ducks are high scoring. Birds from our flock in the hands of our customers have won many honors in many shows, such as Chicago and Des Moines."

—On page 33 of The Homestead will be found the advertisement of Mr. H. B. Simpson, of Albany, Ill. He writes as follows in regard to the cockerels he has left for sale: "I still have a number of good, heavy-boned birds, mostly above standard weight and of good color. They were closely culled early in the season and nothing but promising birds retained. They were sired by three high-scoring males that cost me \$25." Look up Mr. Simpson's advertisement and write him for further particulars concerning his Barred Rocks.

A Good Offer.

One of the most interesting incubator catalogs we have received this season is that of the Wisconsin Incubator Company, of Racine, Wis. This advertiser has made a remarkable success of a plan of selling incubators and brooders that no other concerns have followed out as yet, and that is, supplying an incubator and brooder (two machines) for only \$10, freight prepaid. At first it might seem impossible for a concern to manufacture and sell a 125-egg incubator and 100-chick brooder, freight prepaid, for \$10, but they have been doing this for years, and this year are putting out a better machine than ever, using in their incubator high-grade California redwood, which everyone knows is the best lumber that can possibly be put in an incubator. We urge our readers to send for this excellent catalog. Read their advertisement on this page of this issue. In writing address Wisconsin Incubator Co., Box 105, Racine, Wis.

HERE'S CERTAINTY

For beginner, old-timer—every body. Don't guess or experiment—don't have mishaps. The 16-year-old

SUCCESSFUL

Incubators and Brooders make you sure. Thousands have proved them the world's greatest. Booklet on "Proper Care and Feeding of Chicks, Ducks, and Turkeys, 10c. 60c Poultry paper 1 year. %c. Catalog free. Des Moines Incubator Co., 50 2nd St., Des Moines, Iowa



LATEST BOOK "Profitable Poultry." Best published. Describes most successful Poultry Farm. 45 Varieties pure-bred poultry, beautiful, hardy and money makers; thousands to choose from. Lowest Price on fowls, eggs, incubators, etc. Sent for 4 cents. Berry's Poultry Farm, Box 112 Clarinda, Iowa

43 Leading Varieties of pure bred Chickens, Ducks, Geese, Turkeys; also Holstein cattle. Prize winning stock. Oldest and largest poultry farm in the northwest. Stock, eggs and incubators at low prices. Send 4 cents for catalog. LARKIN & HERZBERG, Box 13 Mankato, Minn.

DOGS.

THREE FOX TERRIER MALE PUPS

READY for shipment. These pups are perfect beauties, nicely marked, are from hard working and great ratter parents. These pups will make fine raters and good watch dogs. Shipped on approval at the very reasonable price, \$10 each. First orders here for them get them. Order quick.

S. HARR, Riverside, Iowa.

A Grand Litter of Collies ready to ship; one whelped February 2d; also fine female eight months old. Two fine broken Fox Terrier females, \$10 each. C. H. Drake, Hazleton, Iowa.

SCOTCH Collie pups, sable, black and white, over 2 months old, from trained parents; eligible males, \$3; females, \$7. F. Bollman, Wall Lake, Ia.

For Sale Pedigreed Scotch Collie puppies; natural heelers and prices reasonable. Pedigrees furnished. Raymond Peterson, R. 1, Garwin, Iowa.

FOX TERRIERS—king of the rat terriers. Puppies and grown stock for sale. Few choice S. C. Red cockerels. Address Sahot Kennels, Pella, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS**, Cumming, Iowa.

TURKEYS.

For Sale M. B. turkeys. Have bred them fifteen years; size, markings and a square deal our motto. Mrs. Harry Davidson, Adrian, Mo.

M. B. Turkey toms scoring 93 to 95%, \$6 to \$10; good brooding, markings and weight. White Rock chks. Sterling Martin, Melrose, Iowa.

MINORCAS.

S. C. BLACK MINORCAS EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

BRAHMAS.

Ottumwa POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

BABy CHICKS.

BABy CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

125 Egg Incubator and Brooder For \$10
Why pay more than our price? If ordered together we send both machines for \$10.00—freight paid east of Rockledge. Between double doors, dead air space between double glass doors, copper tanks and boilers, self-regulating. Nursery underneath the egg tray. Both Incubator and Brooder shipped complete, with thermometers, lamps, egg-testers—all ready to use when you receive them. All machines guaranteed. Incubators are finished in natural colors showing the high grade lumber used—no paint to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money. It pays to investigate the "Wisconsin" before you buy. Send for the free catalog today, or send in your order and save time. **WISCONSIN INCUBATOR CO., Box 105, Racine, Wis.**



WYANDOTTES.

White Wyandotte Eggs Free

FROM MY GREAT LAYING STRAIN
THE Homestead readers who will give me their order for two sets, 15 eggs to the set, at the regular price, \$1.50 per set, will get one set free with order from my great laying strain. This offer expires March 15th; otherwise, the price will be \$1.50 per 15 straight, or \$7.50 per 105, making 7 sets. Order the eggs at once and have me send them later. A few fine White Wyandotte cockerels and pullets for sale.
S. HARR, RIVERSIDE, IOWA.

WYANDOTTES

White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. A. L. Anderson, Indianola, Ia.

I Have the Best White Wyandottes

I ever raised, now ready for sale, \$10.00 a specialty. Quality stock. J. M. Erickson, Slater, Iowa.

SILVER WYANDOTTES

Eggs, 15 for \$1; 45 for \$2.50; 100 for \$5. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3.15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

WHITE WYANDOTTE EGGS

\$1, 15; \$4.50, 100. Eber Anderson, R. 1, Minden, Neb.

Buff Wyandottes I have a few good cockerels for sale. Address Mrs. Grant Davidson, R. 5, Scranton, Iowa.

Buff Wyandotte Eggs from choice, selected stock. Incubator orders filled on short notice. Geo. M. Deyoe, Mason City, Iowa.

White Wyandotte Eggs \$3.00, \$1.50, 75 cents per 15. Circular free. Otto Peterson, Jr., Axtell, Nebraska.

Silver Laced Wyandottes Rose Comb. Eggs, \$1 per 15; \$3 per 50; \$5 per 100. Joseph Reber, Roanoke, Ill.

Smith's W. Wyandotte eggs. Write for 1910 mating list and show record. Quality the best. Prices reasonable. Jay L. Smith, R. 1, Minden, Neb.

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$5; 200 for \$9.
T. A. DAVENPORT, BELMOND, IOWA.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1.50; \$3; 100, \$20. \$9.
R. R. STEWART, R. 2, Charles City, Iowa.

S. C. Brown Leghorns Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

Single Comb White Leghorns BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketchum, Box 300, Booneville, Ind.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5. 100. Also Bennett's strain S. C. W. Leghorns, \$1.50, 15. Sunny Slope Poultry Yards, Oskaloosa, Iowa.

S. C. B. Leghorn ecls. that are well marked. Large, strong-boned, good-combed, healthy birds, \$1.50 each. F. Bollman, Wall Lake, Ia.

Rose Comb Brown Leghorns; prize-winning cockerels for sale. Also eggs in their season. For prices address Mrs. E. L. Claypool, Spencer, Ia.

Rose Comb White Leghorn eggs for hatching; 15 for \$1; 30 for \$1.75; or 100 at \$4. Address P. A. HAM, Saroville, Nebraska.

S. C. W. Leghorn eggs; first pen headed by eckl. direct from Young. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

R. C. B. Leghorn eggs, Kulp's strain; bred for quality; egg production; standard shape; color; eggs, 50, \$2.50; 100, \$4. Mrs. L. W. Renaud, Bondurant, Ia.

SINGLE COMB WHITE LEGHORNS. Eggs, 15 for \$1.25, \$5 per 100. S. C. Rhode Island Red eggs, 15 for \$1.50. Star Poultry Farm, Eddyville, Ia.

ORPINGTONS.

S. C. BUFF ORPINGTON and Buff Rocks, also Light Brahmas, scoring 92 to 91, best of matings, all birds are high-scoring. Eggs \$3 for 15, half price after June 1st. Prices quoted on 100 lots. I. E. MINER, BUSSEY, IOWA.

THE S. C. BUFF Orpington Farm. After March 1st, I will offer eggs by the sitting at \$2.50 or \$7.50 for 50, and by the 100, \$12.50. Will replace all clear eggs if returned express paid. J. T. STADLER, MINDEN, NEBRASKA.

S. C. Buff and Black Orpingtons, best strains. Cockerels, \$2 and \$3 each. Pullets, \$1.50 and \$2. Eggs, \$2 and \$3 per 15; utility, \$6.50 per hundred. E. B. Conable, Box 4, Independence, Ia.

Buff Orpington Ckls. Also a few cocks, grand in color, size and shape. Address Nettie Crane, Bluecoe, Iowa.

BUFF White and Jubilee Orpingtons for sale, including eggs very cheap till May 1st, the time we must move. P. N. Dunn, Humboldt, Iowa.

SINGLE COMB Buff, Black, White and R. C. White. Scored ecls. Scientifically mated breeders. Eggs. Baby chicks, mating list. Dr. Evans, Legrand, Ia.

S. C. BUFF ORPINGTONS Cook strain direct. Eggs, \$2 per 15; \$10 per hundred. B. S. Long, Little Sioux, Iowa.

ORPINGTONS S. C. Buff. A fine lot of cockerels, \$1.50 to \$3 each. Eggs in season. Address Dan McCarty, Winthrop, Ia.

LANGSHANS.

Prize-Winning B. Langshans exclusively, scoring to 94 at Dubuque by Lambert. Eggs, 13, \$5c; 26, \$1.50; 100, \$1.50. W. W. Baskerville, Earlville, Ia.

COCKERELS. Black Langshans for sale. Single bird \$1.25, six for \$1.00 each. Joseph Kappes, Jr., Ashton, Iowa.

PLYMOUTH ROCKS.

BARRED PLYMOUTH ROCKS

COCKERELS pens headed by first-prize winner at Des Moines Poultry Show, 1908, and birds of equal merit. Females consist of pullets shied by the State Fair first-prize cockerel and the hens that produced them. Pullet pens are Blue Belle strain, and contain first-prize hen, State Fair, 1908; second-prize hen and pullet, Des Moines Poultry Show, 1908. Eggs, special pens, \$5 for 15; others, \$2.25 for 15. E. M. CATHCART, CHARTER OAK, IA.

219 EGG STRAIN BARRED P. ROCKS

THE winners at largest show Iowa ever had. A few cocks, left, cheap for quick sale. Eggs for hatching from run of pens, \$1.50, 15; \$2.50, 30; \$3.50, 50; 100, \$6. From special mated, \$4, 15; \$5, 30; and \$8 for 50. Address W. A. HARTMAN, Box 242, Winterset, Iowa.



Barred Plymouth Rock Eggs

FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weigh 10 to 12 lbs.; Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guaranteed good hatch and safe delivery. Catalog free. S. V. LATCHAM, MONTEZUMA, IOWA.

BARRED ROCK EGGS

FROM extra fine hens mated with the males I had in my pens last season. Scored from 91% to 92% by Russell and Southard. Send for a true-to-life photo. Eggs \$1, 15. Eggs from pens \$5 per 15. Address J. W. HOPSON, BEDFORD, IOWA.

Eggs For Hatching

FROM farm range stock; Barred Plymouth Rock, Buff Plymouth Rock and Single Comb Brown Leghorn. Prices reasonable. Circular free. C. E. MATTESON, Pewaukee, Wisconsin.

Barred Plymouth Rock Eggs

I AM offering choice eggs from the leading strains at \$1 for 15; six sittings for \$5. Write me at once. Address Jno. C. Hardman, Brayton, Iowa.

Barred Rock EGGS from high-scoring, farm-range stock, with heavy bone, small comb and clear, narrow barring. Twelve years' experience; satisfaction guaranteed; pens, \$1.50 per 15; range flock, \$1. Mrs. Chas. Murphy, Dexter, Ia.

CHOICE Utility B. P. Rock cockerels; large, good shape, well barred and will please you. Also some very choice S. C. W. Leghorn cockerels. M. E. BIRCHARD, HAZLETON, IOWA.

BARRED PLYMOUTH ROCK

HENS AND PULLETS FOR SALE. GEO. F. BLAKE, MAQUOKETA, IOWA.

White Rock Cockerels \$2 to \$5 each. Few pullets and heus. Also some extra fine Bull Terrier pups. Address F. H. ECKERT, CHARTER OAK, IOWA.

BARRED Rock cockerels, bred from carefully selected matings; vigorous, fine, even barring; extra care taken in selecting ecls. to suit customers; from \$2 up. Chas. McCaskey, Route 2, Ogden, Iowa.

150 Bradley and Thompson B. P. Rocks

COCKERELS AND PULLETS. Henry Schlatter & Sons, Lawler, Iowa.

WHITE ROCKS Trap-nested, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up. 15 eggs \$3, \$2 and \$1. Address Rev. James A. Slack, Yorktown, Iowa.

BUFF ROCK EGGS

FROM a strain of fine winter layers, \$1.50 per 15; \$1.50 per 50; \$3 per 100. L. L. Woods, Grinnell, Iowa.

BARRED ROCK COCKERELS—Scored and Unscored Mrs. J. A. Campbell, R. 5, Manning, Iowa.

BRADLEY STRAIN BARRED ROCKS Eggs from pens \$1.50 per 15; from rock \$1. Mrs. Geo. Duwdy, Abingdon, Ill.

18 B. P. Rock cockerels; strong, vigorous birds, with great size and quality, and narrow, deep barring. Some show birds. C. G. Good, Ogden, Ia.

Barred P. Rocks Eggs for hatching, "Shellabarger strain," both matings. Eggs, \$2 per 15; R. I. Hawthorne, West Liberty, Ia.

WHITE P. ROCK EGGS, Fishel strain, direct; score 95%, heavy layers, prices low. Write Martin Johnson, Cambridge, Illinois.

Eggs From our famous laying strain of White Plymouth Rocks are plentiful and at right prices. Address T. F. Martin, Maxwell, Iowa.

WHITE Plymouth Rock eggs, \$1 per 15; \$2.50 per 50; \$4 per 100. Will sell a few hens at \$1 each. Address Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

B. P. ROCKS only. Large boned, well bar., good layers, high scoring, prize winners, thrifty birds, fair deal. Eggs, 36, \$1.25; 100, \$3. J. M. Reeder, Earlville, Ia.

Buff and Barred Rocks 85 large, fine cockerels, extra heavy-boned, scoring 88 to 94%; farm raised. E. C. Rice, Gray, Iowa.

BARRED ROCKS Large, heavy-boned ecls. Eggs in season from prize-winning strain. Frank Santee, What Cheer, Ia.

BARRED Rock cockerels, Bradley strain, cockerel mating. Choice stock for sale, from 90% to 91% point birds. H. B. Simpson, Albany, Illinois.

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of choice quality. Address Mrs. M. C. Thompson, Route 2, Atlantic, Ia.

BARRED Plymouth Rocks and Golden Wyandottes, and Choice Strawberry plants. Catalog free. J. L. Todd, R. 3, Indianola Ave., Des Moines, Ia.

White P. Rock Eggs, 15 for \$1.50; 30 for \$2; 100 for \$5; from prize-winners and scored stock; Fishel strain. Mrs. E. C. Turner, R. 1, Griswold, Ia.

Wright's Famous "bred-to-lay" strain Barred Plymouth Rocks. A few good cockerels for sale. Lared D. Wright, Knoxville, Iowa.

Pure-Bred Barred Plymouth Rock EGGS for sale—\$1.50 per 15; \$6 per 100. Address George Wyland, Harlan, Ia.

COCHINS.

Buff Cochins Exclusively 50 large-framed, sharp, even-colored, well-feathered cockerels at \$2 to \$5. Write W. W. Vaughn, Marion, Iowa.

RHODE ISLAND REDS.

FREE TO CUSTOMERS

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VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

LUMP ON KNEE.

Will you please tell me what ails my horse and what I can do for her? She has a bunch on her knee about as large as a teacup that came on about a year ago. It is on the outside left leg just above the joint. She is a little lame all the time, but worse when I work her. The bunch feels hard when she bears her weight on that foot and inclined to be soft when she takes her foot up. The horse always toed in some.

The enlargement is connected with an injured tendon and corresponds in nature to a tendinous thoroughpin of the hind leg. After removing the hair have it fired and blistered by a qualified veterinarian. If you cannot have this done blister it repeatedly with cerate of cantharides at intervals of three or four weeks.

INDIGESTION.

I would like to know what to do for a black horse, ten years old this spring. He has not done any good for a year. His hair stands up and he is thin. He eats and drinks heartily, but it doesn't seem to do him any good. He isn't hide bound, but his bowels are too loose, either on green or dry feed. He doesn't have the diarrhea, but what passes is soft. I have not had his teeth examined, but he seems to eat all right. I have been feeding a stock powder for a month. That is all the treatment I have given him.

Stop feeding stock powder. Better have his teeth attended to by a veterinary dentist. Have the horse clipped. Stop feeding grain and let him live on good hay until his bowels are natural. At the same time he may have some carrots if he will take them. As soon as his bowels are normal gradually feed oats and bran increasing the amount fed as he can take it. Mix powdered wood charcoal two parts and ground ginger one part freely in his grain ration if that is found necessary.

STERILITY.

I have a gray mare, seven years old, that I cannot get in foal. She has been bred to a horse and jack several times, but never catches. She has never been doctored. Could you tell me what to do to get her in foal?

There is no specific in such cases. Each case has to be treated according to conditions found by the veterinarian. It may be that if the mouth of the womb is opened when she is in heat and then an impregnating syringe or capsule is used she may conceive, but we are unable to advise in such cases without making a personal examination.

THIN MARE.

I have a six-year-old black mare, weight about 1,500 pounds, that I cannot fatten. She is with foal, but cannot be fattened. She is always thin. Have used stock foods to no avail. Our veterinarian pulled some bad teeth, but she has always eaten enough to keep her in good condition. She always seems and acts sleepy, which I don't think she ought to do. Please advise me what I can do to better her condition.

Work the mare lightly every day and feed whole oats, bran and best of timothy hay. Give her half an ounce of Fowler's solution of arsenic night and morning. Allow free access to rock salt. If her teeth are bad she may not masticate food perfectly and that would cause the thin condition and sleepiness.

BOTS.

A few days ago I lost a horse and upon examination of his stomach found bots, perhaps a quart of them. They were red ones and had their heads well inserted in the walls of the stomach. The horse died in twenty-four hours after the first symptoms were noticed. We treated him for bots, but to no avail. Since his death I am told that there are three kinds of bots, namely, the red, white and black. Is this true? I am also told that all horses have bots and that they are essential to the horse's life. Is this true? If so would it be safe to treat a horse for bots in order to remove them from his system, and what remedy should be used?

Bots differ in color according to their stage of development, the older ones being dark in color. They are not essential to health. They are found in the stomachs of all horses that have pastured grass the previous summer. They do not cause any appreciable

harm and need never be treated for, as they do not cause colic. In rare cases they may set up irritation if they happen to hook onto the lining of the rectum as they pass out of the body. Nothing will kill bots without also killing the horse. They cannot be killed by medicine. Bots will live for some time in absolute alcohol or a strong solution of formaldehyde.

INFECTIOUS ANO-VULVITIS.

A contagious disease has infected the females of my herd and I would like to have your advice. It attacks the vagina and causes it to swell and crack. From the crack a slimy matter oozes out. The germ eats inward and in some it has eaten a half or three-quarters of an inch. They eat well and are apparently well in other respects. I am using disinfectants, Zenoleum two and one-half ounces to one gallon of warm water. What more can be done? It attacks regardless of age and

whether they are with calf or not. Is their milk fit for food and will it affect their embryo or their offspring? Give me full information and oblige.

The disease is due to invasion of affected parts by the bacillus necrophorus, a germ common in yards where

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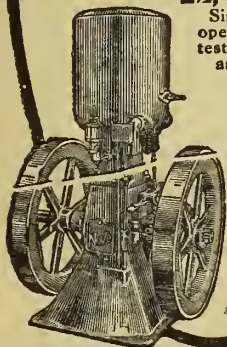
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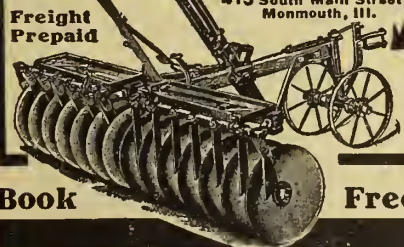
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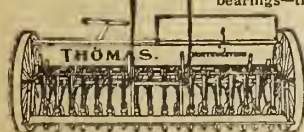


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yard and keep it clean. Isolate affected
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with a lunar caustic pencil or paint
carefully with a 10 per cent solution of
nitric acid. Afterward wet parts twice
daily with a solution of one ounce of
sugar of lead and two drams of carbolic
acid in a quart of water. In bad cases
abortion may occur; otherwise the
disease will not affect the offspring.
The milk of a feverish, sick animal
should not be used.

COUGH.

I have a five-year-old bay mare,
weight 1,265 pounds. She commenced
to have a dry cough after drinking two
years ago and it turned into bron-
chitis. She coughed for one year. I
gave her sulphur, Epsom salts, ginger,
equal parts, one tablespoonful a day,
and she got so she would breathe hard
when driving and her sides would go
like a panting horse. Then sometimes
I could drive her hard and she would
breathe all right. Last summer I had
her examined by a veterinarian and he
said that the flap on the windpipe was
paralyzed. He gave me some medicine
to syringe in there. If dropped on the
hand the medicine would burn and
prick like needles. It helped her. She
is run down in flesh and her hair looks
dead, but she feels all right and eats
well. I feed corn and straw and some-
times oats, but in the last six weeks or
more every time I hitch her up double
she gets in heat and pretty badly, too,
but when turned out with the other
horses she is all right again. When she
has those hard breathing spells there
is a rattling noise in throat. She di-
gests her food all right and is a hearty
eater. I do not wish to breed her if I
can help it. She is fine road stock. Is
there any cure for her?

If there is paralysis of the vocal
cord and cartilages of the larynx as
suggested the case will prove incurable
unless an expert can be got to operate.
The paralysis, however, should cause
chronic roaring when the mare is
driven and you do not mention such a
symptom. Wet all food and give half
an ounce of Fowler's solution of
arsenic night and morning. This will
help her if the cough is due to stomach
derangement, as we rather suspect it is.

STEERS DYING.

Will you kindly inform me what ails
my steers and what to do for any oth-
ers that may get sick from the same
cause? Three have died lately. They
are coming three years old, have been
in the feed lot for two months or more
and are on full feed. They get all the
shelled corn and ear corn they wish to
eat and for roughness they are fed
prairie hay in the morning, all they
will clean up, and at night a nice feed
of good alfalfa hay. They have rock
salt all the time and plenty of clean
well water. They are sick but a short
time, eight or ten hours, and then die.
They grunt a good deal, ears droop and
are cold, eyes are dull and languid look-
ing, nose very dry and cold, pulse very
slow and weak, mouth soon becomes
slimy and as cold as if they were dead,
the legs and whole carcass is cold. One
was opened today, but every organ was
found to be in a normal condition;
heart, lungs, liver and spleen appeared
to be all right, but the gall sack was
very large and filled ready to burst and
the whole alimentary canal, paunch,
other stomachs and bowels were filled
with far too thin, mushy stuff almost
like gruel. I may state that the corn
they eat is not as dry as it might be
and some of the grains of corn are not
very sound. They do not bloat in the
least, but are scoured and the discharge
from the bowels is most offensive. Your
advice would be very much appreciated.

Call in an expert veterinarian at
once and have him make an investiga-
tion for poisons. The gall bladder be-
ing blocked suggests gall stones. The
sudden deaths, however, indicate some-
thing more serious than gall stones or
acute indigestion. Lead poisoning
should be suspected and access to paint
might explain the losses.

THIN COWS.

My cows are gaunt and thin. I feed
them all the alfalfa hay they will eat
(it is second cutting and put up with-
out a drop of rain on it), and corn on
the cob. They are kept in a warm barn
at night and on cold days. They have
plenty of water and seem to feel well
and run and play, give plenty of milk
and are not hungry or weak. They do
not ruminate. Please tell me what is
the matter and what to do for them.

Lose no time in having the cows
tested with tuberculin, as they may
have tuberculosis. If they are free
from that trouble the disease is indi-
gestion and that is suggested by the
failure to ruminate. For such a trouble
we would give each affected cow a full
dose of physic, such as a pound or more
of Epsom salts, half an ounce of
ground ginger root and a cupful of
black strap molasses in three pints of
warm water as one dose. The food
should be changed to clover or mixed
hay, oats and bran.

Look
for the
"UNO"
Trade
Mark

YOUNG'S "UNO" SELF-CONFORMING HORSE COLLARS

give horses collar comfort, prevent galls and sores, because the heavy facing of Young's "UNO" self-conforming mixture perfectly adjusts itself to every peculiarity and irregularity of the shoulder.

They will save you money, because "UNO" Collars far outwear ordinary collars—the self-conforming mixture is backed with selected, long, rye straw—every collar has triple strength throats, heavy sole leather top pads, strong rims to hold hames perfectly—are made only of bark tanned leather cut from best part of hides—\$3.75 to \$5.00.

BRIDLE ROSETTES FREE

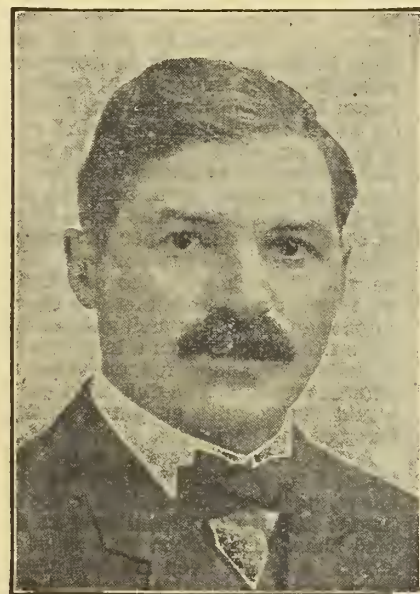
Write us the name of a dealer who does not handle "UNO" Collars, and we will send you a pair of beautiful nickel-embossed bridle rosettes free.

BENJAMIN YOUNG
Dept. 55 MILWAUKEE, WIS.

QUEEN GALVANIZED IRON CUPOLA

Gives perfect ventilation in your barn—saves you money—constant up-draft gives fresh air circulation for your stock. Rain and snow cannot beat in and spoil your hay and grain—birds cannot get in. Costs less than wooden cupola; fits any barn; easily put on; each cupola furnished with gold leaf weather vane. Write for full information and prices.

SOBOLIK & PETERSEN, Dept. 3. CRESCO, IOWA



DR. DAVID ROBERTS
Cattle Specialist

Wisconsin State Veterinarian, 1906-7-8

To Dr. David Roberts is due a full meas-
ure of credit for the advancement of the
live stock industry of this country.

In addition to his liberal contribution to
the many farm publications, his twenty years
practice as a veterinarian, and his three
years service as State Veterinarian of Wis-
consin, he has devoted the greater portion
of his time to the education of the stock
owners through his many public meetings
throughout the country, without remunera-
tion. His common-sense, practical, heart-
to-heart talks have gained for him a place in
the hearts of the stock owners, and a posi-
tion of authority with them.

Every owner and lover of stock should
not fail to hear him when he speaks in their
community.

Dr. Roberts urges all stock owners who
have his book, to read it, not only once, but
also to make a practice of studying some one
disease or ailment each day, and in this
way become thoroughly familiar with the
proper handling of stock.

The Doctor will send any owner of
live stock who has not already received
one, a copy of his book, The Practical
Home Veterinarian. In this book
he gives the symptoms, and de-
scribes fully and tells how to treat the
diseases every stock owner should
know about. These are some
of the diseases he urges every
stock owner to learn all about:

- Tuberculosis,
- Contagious Abortion,
- Retention of Afterbirth,
- Barrenness,
- Paralysis of Bowels,
- Calf Cholera,
- Milk Fever,
- Hard Milkers,
- Bloody Milk,
- Caked Udder,
- Colic,
- Lump Jaw,
- Black Leg,
- Distemper,
- Navel Disease,
- Intestinal Worms.

In addition to the book,
every live stock owner who
sends in the coupon promptly
will receive the Cattle Specialist,
a paper devoted to cattle breeding,
feeding and treatment, free for one year.

Don't Have a Blind One

Wonderful Discovery

"VISIO"

MOON BLINDNESS
and all Diseases of the Eye
successfully treated with
this NEW REMEDY.

Money Back if it fails to cure. \$2.00 per
bottle postpaid on receipt of price,
Visio Remedy Ass'n, Dept. D, 1933 Wabash Av., Chicago, Ill.

This Way To Galloway's Big Ad on Page 39

Send
your name
to Bill
Today.

"Cow Troubles"

Is the title of our Book 6-A that
is sent free, telling how to relieve
Oaked Bag, Sore or Injured Teats,
Spider in Teat, Cow Pox, Udder
Troubles, and prevent Heifers
from becoming hard milkers with

"Cows Relief"

\$1.00 per Box
Delivered, or at Dealers'
O. H. MFG. CO., 48 Chapel St., Lyndon, Vt.

WANTED--Farmer or Farmer's Son

With rig in every
county to introduce
and sell family and
business. We want salesmen in all states. Write us.
SHORES FARM REMEDY CO., TRIPOLI, IOWA.

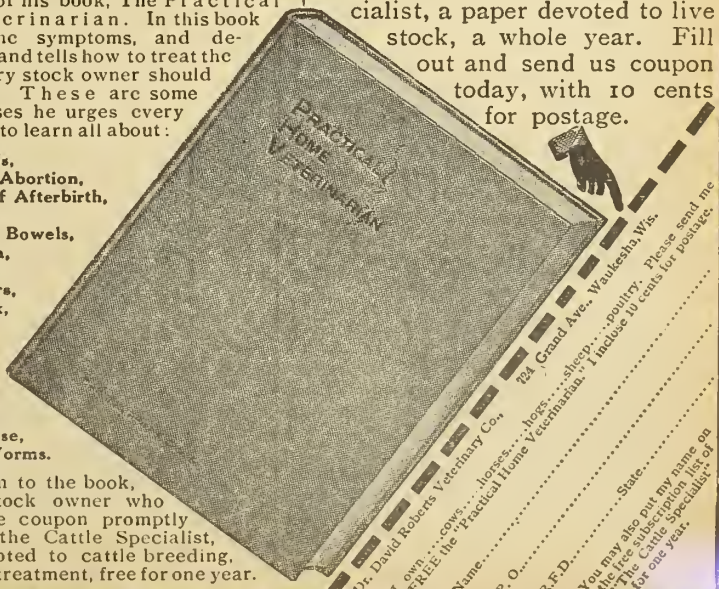
HORSES

Going Blind, Bary Co.
Iowa City, Ia. Can Cure.

When writing mention this paper.

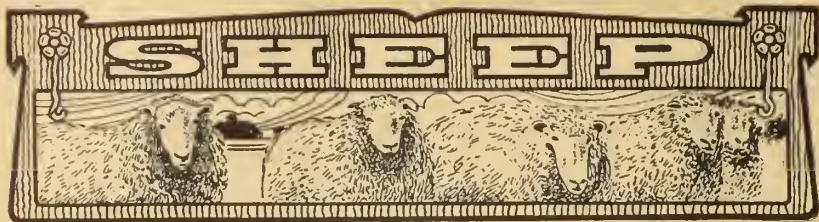
FREE THIS \$1.00 BOOK

Cloth Bound, 180 pages, finely
illustrated, and The Cattle Spe-
cialist, a paper devoted to live
stock, a whole year. Fill
out and send us coupon
today, with 10 cents
for postage.



Dr. David Roberts Veterinary Con-
I on... cows... horses... sheep... poultry. Please send me
FREE the "Practical Home Veterinarian." I enclose 10 cents for postage.

Name..... P.O..... R.F.D..... State.....
You may also mail my name on
the free subscription list of
The Cattle Specialist for
one year.



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

FEEDING SHEEP FOR HIGHEST PROFIT.

If we want to consider this subject properly, we must, I believe, start with the lamb shortly after its birth. To obtain the highest profit on sheep or lambs intended for market, we should not overlook the fact that lambs should be docked, and male lambs not intended for breeding purposes should be castrated. In this respect farmers must improve their methods.

While at Armour's office at Chicago three years ago, the head man asked me why it was that our college brought such a good lot of sheep to the fat stock show, and the flockmasters in our state did not follow our example. He stated that more sheep and lambs came to Chicago from Wisconsin than from any other state in the middle West. He said: "Flockmasters ought to realize that they receive about fifty cents per 100 pounds less for sheep and lambs that have their tails left on them. For lambs that are not castrated or docked they get from \$1.00 to \$1.50 less per hundred pounds." I told him that we at the agricultural college had urged flockmasters for many years to perform these operations, but unfortunately we could not reach many farmers. Therefore, I would like to ask the institute workers who talk on sheep in all corners of our state to impress on the farmers the fact that they are losing money by neglecting docking and castrating.

The next step adding to highest profit is to commence to feed the lambs well just as soon as they begin to eat, which is at the age of about two weeks. A lamb crib put up at one end of the barn where the little fellows can get some extra grain and a little nice, fine clover or alfalfa hay, adds to profit in a large measure. This extra grain feeding, if kept up, that is, if the lamb crib is moved with the lambs out into the pasture, has its advantages. Lambs so fed are in much better condition than others and grow heavier at an early age, so that they may be sold in June and July, when lambs are usually scarce on the market and sell for high prices. Even if lambs are held over for fall or winter feeding, it has been found by experiments at our college that those lambs fed extra grain from an early age, made more and cheaper gains when put in the feed lot in the fall, than others of the same lot not receiving any grain. It was also learned that the extra small amount of grain fed more than doubly repaid its cost.

Another point in securing highest profits is to have a piece of rape, sown May 1st to 15th, so that it is about ready for feeding the time lambs are weaned and can be turned onto it. This rape, if time permits, can be sown in drills, making it possible to grow more of it on an acre than when sown broadcast. When sown in this way, lambs will not waste much by tramping it down, and it can be cultivated to keep the weeds out. I cannot speak highly enough of the value of the rape plant for lamb and sheep feeding.

If lambs are intended for fall or early winter market, another piece of rape can be sown not later than July 1st, which should be ready for them to be turned onto when the first piece is fed off. In an experiment conducted at our college, rape pasture took the place of a pound of grain for each lamb daily, in comparison with another lot on grass pasture with one pound of grain daily and no rape. In other words, one pound of grain was saved by each lamb daily, and the lambs on rape made just as much gain as the other lambs that received one pound of grain.

It was further learned, when finishing both lots off in early winter, that

the lambs that had received rape before winter feeding, did considerably better than the other lot not receiving rape before being put into the feed lot. Flockmasters who are acquainted with the value of rape, sow it with small grain or corn to pasture it off after the grain is harvested. I am unable to say just what there is in the rape plant that gives it its great value for lamb and sheep feeding. This would require a chemical analysis, but from experiments and personal observation I know that it is a very cheap feed, easily grown, and a great promoter of growth and mutton production.

Now we come to feeding in winter, or the feed lot problems. If we want to feed in the most profitable way, we should consider which varieties of grain are cheapest to use, as variations in prices of grain in many cases either increase the profit in feeding or lessen it. As an illustration, I will refer to an experiment conducted several years ago at this college. In this instance two lots of lambs were fed, one receiving shelled corn, and the other lot dried beet pulp. The price of corn at that time was \$20 per ton and the price of beet pulp \$16 per ton. When we got through with the experiment, we found that the lambs fed on beet pulp made about as much gain as those fed on the corn. With a large number of lambs or sheep fed on these two different rations, a saving of \$4 per ton would make quite an extra profit, in favor of the beet pulp.

A feeder of sheep must have learned to practice cleanliness, as sheep, perhaps, are a little more particular as regards cleanliness in their feed than some other classes of live stock. He must keep the feed troughs clean and sweet and see to it that the

A Special Machine for a Special Purpose

GASOLINE PUMPING ENGINE

This is the Engine for Pumping Large Quantities of Water for Watering Stock, Irrigating, Draining, Pumping out Mines, Quarries, Excavations or other places where a compact, powerful and low priced pumping outfit is wanted.

This Back-Geared Pumping Engine with Stuffing Box, as shown, ready to receive pipe connections, and capable of raising 260 barrels of water per hour to an elevation of 25 feet, 60 barrels to an elevation of 100 feet, or proportionate quantities to any height. F. O. B. Chicago

\$100

A complete pumping outfit assembled in one compact machine ready to receive the well connections and go to work just as soon as they can be attached. Cylinder, pipe and rod all fitted ready to screw together, for any lift from 25 feet to 100 feet, furnished for \$45.

This is an emergency outfit which can be shipped on an hour's notice and can be set up in complete working order within an hour after it is received.

This engine was specially designed for pumping. It can also be used for running a grinder, fodder cutter, saw or other light machinery, but where operating machinery is the principal work, our \$75.00 2-H. P. general purpose engine with fluted cooler is cheaper and more suitable. Larger sizes at proportionately low prices.

If you need a small engine to operate "any old hand pump" our \$37.50 pumping engine is just the thing.

Remember that these engines are manufactured by the company which made the steel windmill business. Thousands of these engines are in use.

AERMOTOR CO., 2508 12th St., CHICAGO

A Lot of Power for a Little Money

hay and other roughage is clean and bright, and that the grain has not been scratched over many times by the chickens and soiled with their droppings.

A careful feeder will always see that his flock is kept free from internal parasites, and ticks and life. Wherever these enemies are present in a flock, no profitable feeding can be expected. Shelter also adds greatly to the welfare of sheep in severe weather. —(Address of Frank Kleinheinz, of Wisconsin Experiment Station, before Wisconsin Board of Agriculture.)

"Test your seed corn." The necessity for so doing is more imperative this year than ever before because so much of the corn grown last year was

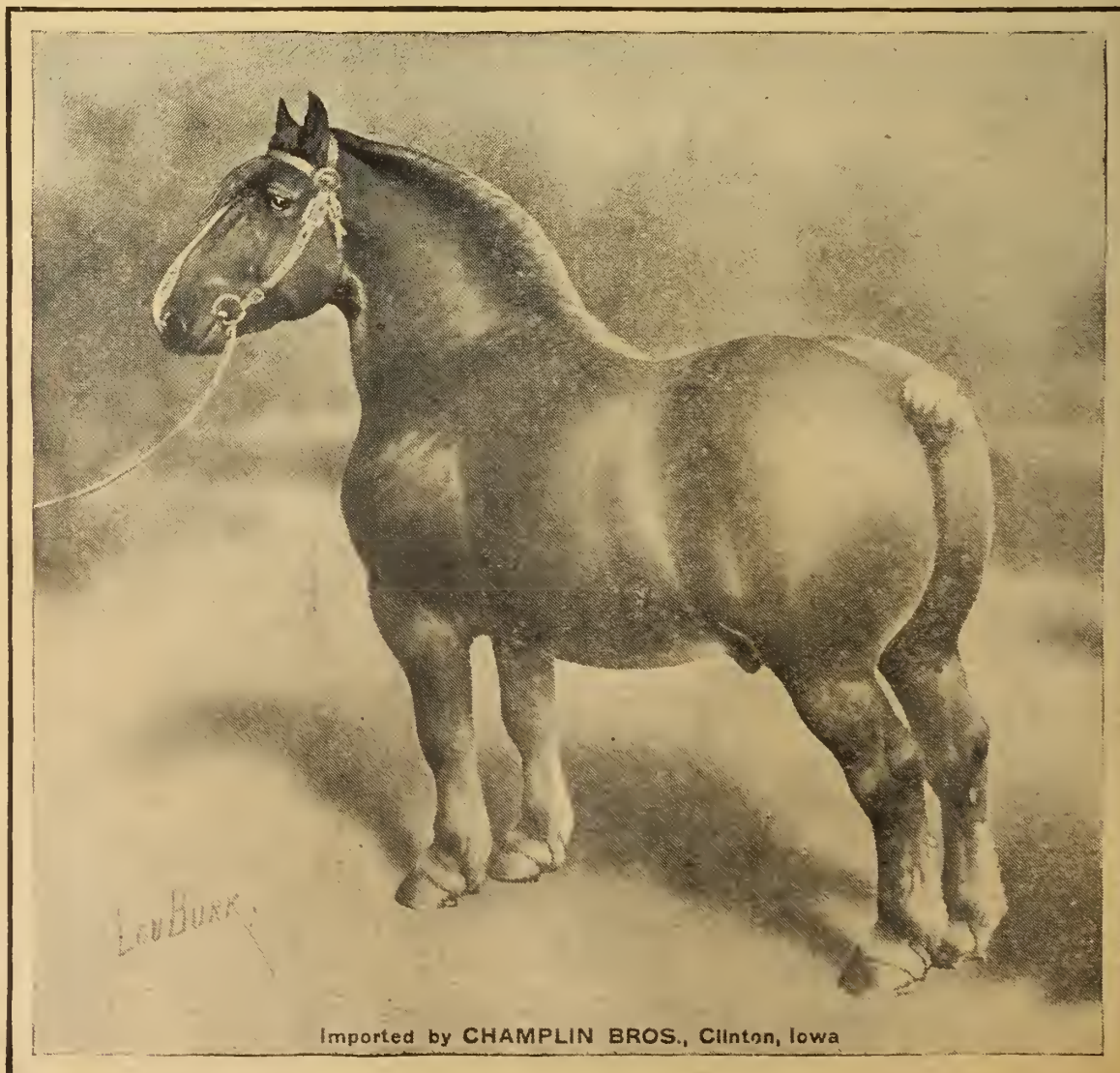
SHEEP.

REGISTERED SHROPSHIRE RAMS
FOR SALE. I have no more bred ewes for sale.
Address WILLARD MILLER, Anita, Iowa.

CLOSING OUT SALE—Entire flock of registered Shropshires. Ewes, \$12 to \$18 each; rams, \$12 to \$20 each. W. C. Frazier, Atlantic, Cass Co., Iowa.

damaged and will not germinate. The size of next year's crop depends largely on the care taken in the selection of seed.

Any culvert high enough from the bottom of the ditch to upset a rig that might be driven off the end, should be provided with end guards. This would prevent many accidents on dark nights.



Imported by CHAMPLIN BROS., Clinton, Iowa

The above illustration is that of a chestnut four-year-old prize-winning Belgian at the World's Fair, as a two-year-old, and is the class of Belgian stallions that Messrs. Champlin Bros., of Clinton, Iowa, have for sale. See their advertisement on page 59.

MISSOURI LAND

PEACH FRUIT AND FARMING

"I make the claim, substantiated by facts, that in no place in the United States can a man make a more comfortable living with less effort nor acquire considerable wealth with a fair effort than in the Southern Missouri Fruit and Farming District."

W. W. G. HELM, Vice-President and General Manager, C. C. L. & F. Co.

This is a broad statement for me to make against all other land in the whole United States, BUT I CAN PROVE IT AND I WANT YOU TO MAKE ME PROVE IT.

MISSOURI THE PLACE TO MAKE MONEY

Regardless whether you own or rent a farm in Illinois, Iowa, Kansas, Texas or in any other State, or own and cultivate the best irrigated farm in the country, we can show you where a Southern Missouri farm of the same size will beat it, will produce as much, or more to the acre, or show you figures that will amaze you.

WE CAN PROVE LARGE PROFITS IN PEACHES

The demand for Elberta peaches is beyond the supply and always will be, as the territory adapted to the growing of this luscious fruit is so limited, that, if every acre available were bearing to its fullest capacity, there would still be a shortage.

With this condition an established fact, there never can be an over-production, hence this luscious fruit will ever continue to command top-notch prices and destructive competition eliminated.

\$175.00 to \$700.00 per Acre for 13 Years

J. D. Wilkinson says: "I have been engaged in raising fruit in this district for 13 years and have to say that peaches run from \$175.00 to \$700.00 per acre."

THE ONLY CHEAP THING ABOUT OUR LAND IS THE PRICE. DO YOU KNOW OF ANY LAND, ANYWHERE, AT ANY PRICE, THAT IS A BETTER PROPOSITION THAN THIS?

\$10.00 AN ACRE

No Interest—

—Perfect Title

We Can Prove as Good Farming Land as Can be Had Anywhere

If you want a good farm, to do big things in a big way and on a quality of land that will grow crops remarkable for productiveness, we have it. The only cheap thing about our land is the price of \$10.00 an acre. Our land will grow the best specimens of corn, wheat, oats, rye, millet, kaffir-corn, speltz, sorghum, timothy, clover, cowpeas, Hungarian hay, bluestem grass, alfalfa, peas, beans, Irish and sweet potatoes, beets, cabbage, tomatoes, cauliflower, sweetcorn, and many other vegetables, grain and grasses.

Our land will grow these and many other varieties, and grow them better, far better, than some land in Illinois, Iowa, Kansas, Oklahoma, Ohio, Texas, etc.

We Can Prove All Our Statements and Want You to Let Us Do It

As a proof of what our land will do the first year it is broken and put to corn, please read the following: G. T. Lee, Van Buren, says:

Free Book



Write Today A Postal Will Do

"I do not believe your tract is surpassed anywhere in Missouri for grasses, small grain, orchard and truck gardening. We have just opened this year a small tract planted to corn that will run 50 bushels to the acre."

We can prove our land will grow first quality Elberta peaches that will net from \$125.00 to \$700.00 an acre. Fruits and berries that will pay from \$250.00 to \$650.00 an acre. Farm products, vegetables and grasses that exceed many states in the Union.

Our Terms

are the most liberal ever offered by any honest company. You can buy from 20 to 640 acres on either monthly or yearly long time payments without interest or taxes and with only a very small payment down.

Write for our free book. It gives you facts and figures about the growth and production of peaches and other fruits, grains, grasses and vegetables that will astonish you.

Carter County Land & Fruit Co.

Desk, 2

VAN BUREN, MISSOURI

(Formerly Bank Commerce, St. Louis, Mo.)

EASY PAYMENTS

ADVERTISING NOTES.

Mr. Bazel J. Meek, of Chillicothe, Mo., is advertising two farms for sale that should interest those of our readers looking for good farm lands in north-west Missouri where the best of corn, clover and blue grass is grown. He has a couple of bargains in these advertised on page 40. Look up the advertisement and when writing Mr. Meek kindly mention this paper.

A Drill That Has Thirteen Points.

There are a good many seed drills in the market, but the manufacturers of the Thomas, which is advertised on page 35, claim that it is the only one that has to its credit thirteen separate superior points that are not to be found in any other drill. The Thomas will sow corn, wheat, oats, rye, barley, beans, flax, alfalfa, clover or any other seed that is to be sown. It does it so well and so easily that it stands head and shoulders above all others. For fully illustrated catalog and price list write to the Thomas Manufacturing Company, Springfield, Ohio.

Protecting the Telephone From Lightning.

Telephone users are requested to read the advertisement of the W. E. Ashby Telephone Cut-Out Company on page 27. This advertisement shows the benefits the lightning arrester confers on telephones. The arrester is a means by which lightning may be prevented from doing any damage to the phone or the house in which it is located. A booklet which describes it fully may be had by writing to the W. E. Ashby Telephone Cut-Out Company, 420 Phillips Building, Des Moines, Iowa. This concern were formerly located at Chariton, Iowa.

Here Is That Steel Shoe Again.

The big steel shoe advertisement on page 21 ought to receive attention. It gives all the advantages of the Ruth-stein steel shoes that wear from three to six times longer than the best leather work shoe. They are comfortable as well as warm and dry. Read the advertisement carefully and do not overlook the fact that a pair of steel shoes may be procured direct from the manufacturer at an extremely low price. Sizes and prices are all quoted. All you have to do is to fill out the order blank in the advertisement, enclose the price and send it to the Steel Shoe Company, Dept. 382, Racine, Wis.

An Automatic Stock Fountain.

The advertisement of the Gedge Automatic Stock Fountain appears on page 48. There is no use discussing the advantages of any device which will furnish a continuous supply of pure water to stock. Those points have all been settled. The Gedge Automatic Stock Fountain has been given extended trials and it is now put out on a fifteen days' free trial to any reader of this paper. No money is required in this transaction until the fountain has proven its merits. A descriptive book containing full information as to this free trial may be had by writing to Gedge Bros., Iron Roofing Company, 2434 Fletcher St., Anderson, Ind.

A Money-Saving Preparation.

The advertisement of Avenarius Carbolineum will be found on page 32 of this paper. This is a preparation which has many points in its favor as a louse killer in poultry houses. It stands without an equal as a means of preventing decay of shingle roofs, it stands by itself as a preservative of fence posts, it makes fencing much cheaper and doubles the life of the posts. It is a wood preserver wherever used. It is economical in every sense of the word. Circulars giving prices and many testimonials from those who have used it are sent free on application to the Carbolineum Wood Preserving Company, Dept. 97, Milwaukee, Wis.

Hawkeye Grader and Cleaner.

The high prices of grains intensify the need of using seeds as absolutely clean as can be, and the high price of lands makes it doubly inadvisable to use seeds that have not been cleaned or that contain any measure of weeds or foreign seeds. A grader and cleaner is an essential machine on every farm. The Hawkeye grader and cleaner advertised on page 25 is a machine which cleans and grades wheat, oats, grass seed or seed corn. It accomplishes the work ordinarily done by two graders or cleaners and does it well. It is sold at a low price. It helps to increase the income from a high-priced farm. Prices and illustrated descriptions may be had by writing the Maytag Company, 500 North St., Newton, Iowa.

The Bovee Furnace.

There is perhaps no furnace manufactured in the West which has been sold so generally as the Bovee, advertised on page 15 of this paper. This furnace has been known to the writer for a good many years and it has given such universal satisfaction that everybody who buys one praises it. The demand has been so great that the factory has from time to time been so greatly increased as to now be numbered among the most extensive and best-equipped furnace plants in the West. Just now a special offer on a No. 1 upright or a No. 1 horizontal furnace is made at the low price of \$65. This price includes, in addition, hot air registers in three rooms and two cold air returns and everything complete. The Bovee will burn anything that can be burned in any furnace. It is suitable for houses, churches, stores or, in fact, any building that needs heat. Special prices, however, are made to churches and parsonages. Better write once for this low price. It may not be continued. Address the Bovee

Grinder and Furnace Works, 200 8th St., Waterloo, Iowa.

An Invincible Town and Country Car.

The advertisement of the Schacht Manufacturing Company, on page 16, contains some plain statements concerning the Schacht Invincible Farm Trio, a three-in-one car, low-priced, with all the advantages of the high sellers. In usefulness, power and speed its claims entitle it to mature consideration. It is sold for \$850 and our readers who want to investigate its merits should send for the "850 Book," addressing inquiry to the Schacht Manufacturing Company, 2746 Spring Grove, Cincinnati, Ohio.

A School of Watchmaking.

Young men who have determined upon other lines of work than that given by the farm may be interested in the advertisement of the Wisconsin School of Watchmaking, which appears on page 50. This school affords an excellent opportunity for young men to learn the watchmaking trade at home. A postal card inquiry directed to the Wisconsin School of Watchmaking, Enterprise Building, Milwaukee, Wis., will secure copy of the catalog which tells all about it.

Rhode Island Reds.

We desire to call the attention of our readers who are interested in Rhode Island Reds to the advertisement of Mrs. F. W. McIntyre, Red Oak, Iowa, on page 33. Just now she is offering eggs for sale, and she has eight or nine pens to select from. Pen No. 1 is called her "American Beauties," and here is the cream of this great breed. Her 1910 catalog will tell you all about this pen and the eight other pens that she is mating on the farm. Mrs. McIntyre is a specialist in the Rhode Island Reds and she has one of the best flocks in the West. Write her at once for her 1910 catalog. It will be sent free, providing you mention The Homestead.

Light for Farm Homes.

The problem of a satisfactory artificial light that could be procured for the farm home has been one hard to solve. Various devices and schemes have been brought forward, but few of them have proven of practical value. The advertisement of the Union Carbide Sales Company, on page 9 of this paper, goes far toward providing the necessary light. This advertisement explains the system so thoroughly and with such completeness that we cannot undertake to do so in this notice. Read the advertisement carefully and for additional information in regard to prices, etc., write to the Union Carbide Sales Company, Dept. B, 33 Adams St., Chicago, Ill.

Plow, Harrow and Plant.

Plowing, harrowing and planting have been the order of things from the beginning of agriculture, but with the progress of time the more active minds of men have devolved means of consolidating some of the operations. Now by the use of the Champion pulverizer, fully described in an advertisement on page 16, the plowing and harrowing may be done at one operation. Not only that, but the ground is left in a condition which could not be improved upon. It is pulverized and left so that not only is it protected from drouth, but it is in just the condition best adapted to the reception of seeds. The Champion pulverizer will certainly pay its cost in two or three days. An illustrated circular giving testimonials and prices may be had by writing to the Union Transfer Company, Box A, Dubuque, Iowa.

The Grinnell Detachable Spreeder.

The illustration given herewith represents the Grinnell Detachable Manure Spreeder. It is a spreader constructed entirely along new lines. It is different from all others. Its differences will be



apparent on sight. It can be bought complete, truck, box and all, even including an extra top and scoopboard, or you can buy the attachment alone which includes box and all spreader gearing to fit any ordinary farm truck. The price at which it will be sold will make a big saving over the price of other spreaders. For particulars or additional descriptions write to the Chase Manufacturing Company, 39 Broad St., Grinnell, Iowa.

Building Material for Spring Work.

The question of building material has become a serious one to every farmer who contemplates making any improvements. In house building in particular there is need for a great deal of careful figuring, owing to the high price of lumber of a better quality. The advertisement of the Chicago House Wrecking Company, which occupies page 64 of this paper, is one which is timely and to the point to lumber buyers. The Chicago House Wrecking Company are not only prepared to furnish lumber and other materials at prices which cannot be met by competition, but they also supply bills of material for houses of different plans, as noted in the advertisement, in such a manner as to save a good deal on materials, as well as on original cost. They furnish blue prints of any of the houses illustrated in the advertisement at the very low price of \$2. This includes plans, list of materials and, in fact, all the details for which an architect would make a charge of from \$25 to \$50. The book of plans shows a great many handsome designs in houses and farm buildings. It will be valuable to the builder and can be had free of charge. Read the advertisement and write for this book.

HARNESS FROM MAKER AT WHOLESALE PRICES

If you pay more for Harness than our price you will pay too much and get no better Harness. You cannot afford to do it. We sell Harness and Saddles direct to the user at wholesale prices, saving him all the middleman's profits. Besides that



WE PAY THE FREIGHT

We put the finest quality leather and workmanship in our goods and guarantee satisfaction. Hundreds of customers buy all their Harness of us, and have for years; every sale satisfies and makes a friend for our shop—that means that our Harness and prices are right. Send for our big free Catalog, and see how we save you money—but don't buy until you get the catalog or you'll be sorry. Write for it Today. **H. & M. Harness Shop, SO. ST. JOSEPH, MO.**

addressing the Chicago House Wrecking Company, 35th and Iron Sts., Chicago, Ill.

Martin Lightning Rods.

The advertisement of Martin's old reliable pure copper lightning rods will be found on page 27 of this paper. The Martin rod has been in use for more than twenty years and has established a reputation as a standard rod. It is sold direct to farmers and in order to ascertain its merits our readers should write at once to the Martin Company, Dept. A, Sac City, Iowa.

The Fish Brand Slicker.

Every man who works out of doors through the spring season will appreciate the Fish Brand slicker as a means of keeping the clothing dry in rainy weather. The Tower slickers have been in use for many years. They do not need any commendations from us. They are sold at \$3.00, as noted in the advertisement on page 42. If your dealer does not have them write for any other information to the A. J. Tower Company, Boston, Mass.

The Latest in Milking Machines.

"The milker that milks right is the heading of an advertisement on page 26 of this paper that should at once prove of interest to both dairyman and farmer. The energies of the inventors have been directed unremittently during the last few years toward the completion and perfection of a milking machine which should be in fact a milking machine. That which is here advertised is sold at the low price of \$12 and sent on a ten-day trial, absolutely free, express prepaid, and there is no obligation to take it if it does not comply with every requirement. For full particulars write to the Western Milking Machine Company, 244 North 3d St., Stevens Point, Wis.

A Stitch in Time Saves Nine.

This old saying is applicable to a great many business transactions. It is particularly so with reference to protection from lightning. The season for storms is now rapidly approaching and it is certainly good business judgment to protect not only farm buildings, but the lives of the family from the effects of lightning by providing a good system of lightning rods. Such a protection is the D. & S. system, advertised on page 45. It is a tried plan, perfected by a scientist of many years' study and proven to be valuable by years of use. Full particulars concerning the D. & S. system may be learned by writing to Dodd & Struthers, 417 6th Ave., Des Moines, Iowa.

Saving Four Miles of Lift.

The engraving which appears in the advertisement of the Empire Manufacturing Company on page 26 shows just how any farmer may save four miles of the hardest lifting of any farm work. The Empire low steel wheels may be used on any farm wagon and they change it from a means of torture to one of easy work. A prominent medical authority has recently given out his opinion that heavy lifting over high wheels kills more farmers than pneumonia, consumption, smallpox and cholera combined. This saving in lifting, however, is but a small part of the advantage to be gained from the Empire low wheels. Full statement of facts are contained in an illustrated book that is printed and sent out by the Empire Manufacturing Company, Box 685, Quincy, Ill.

Corn Belt Grinder.

There has been no season in years when conditions were as favorable to the use of a grinding machine as at the present. There is no use arguing as to the advantages of grinding feed. Every farmer has solved that question for himself. Just now the question of which grinder to use may be considered the only one and this is rapidly being settled in favor of the Corn Belt grinder herewith illustrated, and advertised on page 19 of this issue. This machine grinds as perfectly as may be required. It grinds corn alone or other grains in mixture. It grinds soft or spongy corn perfectly, is durable and easily operated. The manufacturers have so much confidence in it that they agree to send it free on twenty days' trial to any reader of this paper. For additional



particulars address the Spartan Manufacturing Company, Dept. 61, Pontiac, Ill.

The Nodaway Chief Lawn Mower.

The advertisement of the Clarinda Lawn Mower Company will be found on page 43. In it there is an illustration which shows the wonderful simplicity of the Nodaway Chief mower and also the points where it differs from those of other makes. The manufacturers are willing to prove that the Nodaway Chief can run lighter, cut higher grass and take better care of the cut grass than any other mower made. They do this by sending it on a thirty-day free trial. For catalog and particulars of this trial offer write to the Clarinda Lawn Mower Company, Clarinda, Iowa.

Rankin's Two-Row Cultivator.

In these times, when the problem of farm labor is becoming an acute one, there devolves upon the farmer a necessity to utilize his horsepower to the extreme and to reduce the manpower to the lowest limit. To the corn raiser Mr. David Rankin's two-row cultivator performs this double service. This cultivator is the invention of Mr. David Rankin, the great Missouri farmer, whose efforts have largely been directed toward labor-saving devices. By the use of the Rankin two-row cultivator two rows of corn may be cultivated by one man where, by the ordinary methods, two men, two cultivators and at least one more horse would be required. The big advertisement of this cultivator will be found on page 2. It tells the reader that by the use of just such implements as this Mr. Rankin made a million dollars at farming. The Rankin cultivator is sold direct to farmers and cannot be found at dealers'. It is sold under an absolute guarantee and is right in every way. For prices or additional particulars write to Mr. David Rankin, Box 120, Tarkio, Mo.

The Ulbrich Seed Corn Tester.

There are a good many ways of testing seed corn, and while any way is better than none the safest way is to use a tester which performs the work under conditions as nearly those of the natural field as can be obtained. The new ideal tester as illustrated herewith answers the purpose more nearly than any other. The illustration shows the tester and also the racks in which to put the ears of corn that are being tested. The complete outfit is so inexpensive that no reader of this paper can afford to be without it or to take chances on planting poor seeds. Description, prices and other valuable information are contained in the free catalog for which write to the Ulbrich Seed Corn Tester Company, Walnut St., Atlantic, Iowa. The firm also have a free trial proposition that will be of high interest.



pensive that no reader of this paper can afford to be without it or to take chances on planting poor seeds. Description, prices and other valuable information are contained in the free catalog for which write to the Ulbrich Seed Corn Tester Company, Walnut St., Atlantic, Iowa. The firm also have a free trial proposition that will be of high interest.

You Are Missing a Lot of Pleasure.

That is what everybody says who has a Victor talking machine and what everybody says must be true. The manufacturers of the Victor, not content with producing a machine which is absolutely perfect both in recording and reproducing the human voice, have turned their attention to procuring records from the most prominent people of the world. Recent instances include that of Marcel Journet, the great French basso, who came all the way from Paris simply to sing for the Victor Talking Machine Company, of Camden, N. J., and immediately returned to Paris. He is considered the best basso now singing in opera and is under contract with the Paris Grand Opera, and it was only through the courtesy of the directors that he was permitted, just at the height of the opera season, to come to America to fill an engagement with the Victor Company for the sole purpose of making records of concerted arias from grand opera in conjunction with Caruso, Geraldine Farrar and other famous artists. Only the perfection of the instrument would justify such great expenditures as this transaction would involve. It is only one of many instances of the efforts of the Victor Talking Machine Company to supply their patrons with the best of the world. The Victor catalog may be had free by filling out the coupon in the advertisement and forwarding it to the Victor Talking Machine Company, 25th and Cooper Sts., Camden, N. J. See page 13.

IN FARMS, THIRTY BILLION DOLLARS.

The United States has thirty billion dollars invested in farm lands; their buildings, machinery and live stock, according to a census, the results of which have just been made public. From one million in 1850 the number of farms has increased to

nearly seven million in 1909, and the report adds: "No such increase in agricultural land values was ever known before in the history of the world in any country. The value of farms in the United States has increased 44 per cent since 1900, the figures of that year showing an increase of 25 per cent over the previous decade."

The most remarkable figures pre-

sented show that the western section, which includes New Mexico, Colorado, Wyoming, Montana and other states, has within the last ten years shown an increase in the number of farms of 100 per cent. At the same time the value has increased 98 per cent and the products 211 per cent.

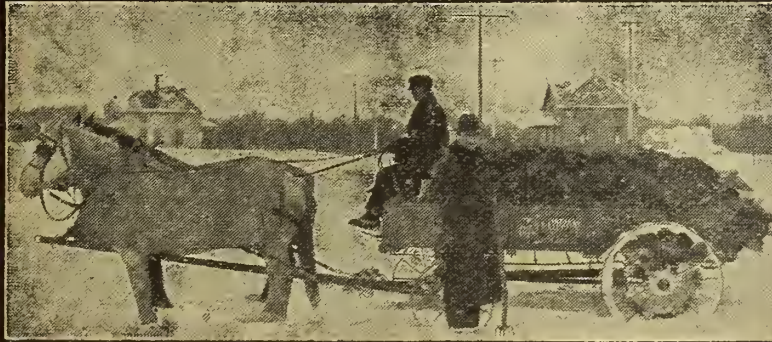
Values of farms in the South Central states have increased 58 per cent

and in the North Central states 42 per cent. In the North Atlantic states there has been an increase in value of 13 per cent and in the South Atlantic states an increase of 34 per cent.

Colts should never be turned into the yard with the milk cows. No matter how gentle the colts may be they seem to like to chase and annoy cows.



See Box Cleaned Out Slick as a Whistle and Uniform to End of Load by My Exclusive, Detachable Force Feed. No endless apron, without this, will work perfectly without driving extra distance.



Here I Stand with 2-Foot Ruler Showing 1½ Tons of Manure Piled 18 Inches Above Box on the Galloway.



Spreading in Snow to Hubs with the Galloway with Only 2 Horses and Manure Piled 18 Inches Above Box. Notice How Easy They Pull It.



Showing Wide, Even Spread with All Machine Working Perfectly Even in Mid-winter—with Snow to Hubs. Fits Any Truck You Already Have.



Every Pound of 1½ Tons of Manure Spread Clean Out Even and Uniform to the End of the Galloway Box by Perfect Principle and My Detachable Force Feed. Worth \$25.00 Extra, but Costs Nothing Extra on the Galloway. Can be had on no other.

This Great Book FREE Now

—Send letter, postal card, coupon below, telephone or wire to me. Ask for my Book of Facts on the Galloway Spreaders. Today, right now, is the best time. Do it before some other thing comes up. Tell me the kind of trial proposition you'd like to have.



STOP-

Get Out Your Pencil—Do This Now to Make Yourself Money

HERE'S a valuable example—a farmer's find—every farmer's gold mine—illustrated here. Snow to the hubs—from actual photographs showing the Galloway—spreading valuable manure in winter and spring days when you can make a lot of money for yourself—for bigger crops—for much more fall cash—a gold mine from manure pile to field—the best paying investment in farm machinery that you can put a small amount of money into and take a big roll of money out of—every year—every crop season—for many years—and guaranteed for 25 years by the actual maker after more than paying for itself the first season.

Over 40,000 Farmers of America will tell you that the Galloway is O. K.—A number 1. And I'll prepay the freight on the size to suit you of 50 to 70-bu. capacity—delivered free—to your station. You to be the judge this way—entirely at my risk—whether there is a manure spreader today, or in all implement history, that can equal the Galloway—or beat it on any test.

What's the use of delaying? You've got the farm to use it on. You've got the manure to spread. Even a boy can use the Galloway easily—with only two horses. Does all the work in half the time—saves labor expense, and every time the wheels go round it makes and saves money for you. It's a real gold mine for bigger crops and as a labor and time saver. No other can equal it.

Never Since Christopher Columbus Discovered America—

No sir, never before in all history have such standard, high quality, superior manure spreaders been sold at such extremely low, wholesale quantity prices. Better machines, mind you, in every way, at only actual cost of material, labor and one very small profit based on this tremendous quantity: 30,000 Galloway Manure Spreaders for this year. Anybody might just as well have one of these machines when they can get in on a wholesale deal of this kind. Be your own dealer, buyer and agent.

Get ready for spring—to start bigger crops on your properly-fertilized fields by using a Galloway. Never was so much manure piled around the barns and feed lots as there is this year. Never, in 15 years, has there been such a need for manure spreaders as there is this Spring. I say, again, are you ready?

Don't put off this manure spreader matter one more day! Don't let it wait over night! Besides my free catalog Book of Facts I've got a new color-illustrated free book—"Net Results"—to send you also. Big as a farm paper—with big, actual photographs and all facts to prove to you on your own judgment. 1.—Why you should buy a manure spreader. 2.—How it will pay for itself easily the first year. 3.—Why it should be a Galloway! Shows everything, point for point, that you want to know. Nothing like this book has ever been published before in manure spreader history. It is absolutely unique, and contains a great deal of valuable information on spreaders and the subject of fertilization which you, as a practical farmer, will appreciate.

With my 2 free books I'll send you my special Proposition Deals and this offer—
—Try My Galloway Spreader 30, 60, 90 or 120 days. If you are not satisfied, I will pay the freight both ways and refund every cent of your money with 6 per cent interest—or try it 12 months and if it does not prove a paying investment I'll do the same.

Just send me your name today—the coupon below makes it easy—or use a postal, a letter, write or telephone me personally—

William Galloway, Pres.

William Galloway Co., of America

Authorized Capital, \$3,500,000

109 Galloway Station, Waterloo, Iowa

Cut
Out
and
Mail
this Coupon

2 BIG BOOKS FREE

Here's the best, most practical and honest

Wm. Galloway, President
WM. GALLOWAY COMPANY, OF AMERICA
109 Galloway Station, Waterloo, Ia.

Absolutely new—this Big Book

Big Catalog of Facts

Here's my name. Send me your 2 Books on Galloway Spreaders and Special Proposition Deals including 12 months' Trial Offer.

Name.....

Address.....

City..... State.....

IMPORTANT—Also makers of famous Galloway Gasoline Engines, all powers, and Celebrated Bath-in-Oil Galloway Cream Separators. Catalog Free. If interested—say which books wanted.

"Net Results Are What Count"

Shows big, actual photographs; is large as farm papers.

—Get it and you'll be a judge of all Manure Spreader Values.

LANDS AND HOMES FOR SALE

Irrigated Land

The greatest fruit and alfalfa valley in America is now open for settlement at Fort Stockton, Tex.; rich alluvial, natural flow of pure spring water exceeding 55,000,000 gallons per day for irrigation and domestic use; water on land now assured profits of from \$100 to \$1,000 per acre; no drought; no crop failures; finest all year 'round climate in the United States; altitude 3,050 feet above sea level. Fort Stockton is county seat of Pecos County and important division point on the Kansas City, Mexico and Orient Railway, now under construction; population now 1,000; will soon be a city of from 10,000 to 15,000. Greater opportunities for homeseekers and investors than were ever offered in the older irrigated districts, where orchards are valued at from \$2,000 to \$5,000 per acre. Choice locations open to those who investigate now. Low rate excursions First and Third Tuesdays of Each Month. You cannot afford to buy land anywhere without seeing Fort Stockton. For full information address FORT STOCKTON IRRIGATED LANDS CO., 409 Fidelity Trust Building, Kansas City, Missouri.

IT IS CORN

KING of all crops, that makes our Missouri low-priced farms so valuable as homes and investments and advance so rapidly in price. Illustrated literature. Write today. Eugene T. Thompson, Crawford Block, Sedalia, Missouri.

IRRIGATED LANDS In Colorado, under perfect ditch system. Unsurpassed for fruit, alfalfa, sugar beets, wheat, oats, cantaloupes and all kinds of vegetables. On transcontinental R. R. Superior local and foreign market. In tracts from 5 to 1,000 acres, at \$100 and up. **ORDWAY LAND CO., ORDWAY, COLO.**

Farms for Rent

80, 120, 160, 240, 480 acres, Iowa; 338 acres, Whiteside County, Ill.; 2,319-acre ranch, Hayes Co., Neb. **Northern Iowa Land Co., Independence, Ia.**

Write Hughes-Sully County Land Company, Harrold, South Dakota. For SNAPS in level, loam SOIL in corn belt, near state capitol. List with us. We're hustlers.

AGRICULTURE IN THE SOUTH.

(Continued from page 7.)

Washington, and also the parent of the boy, the boys of the school are organized into a corn club. Each boy agrees to plant and cultivate an acre of corn, generally on land furnished by his father. Advice as to method of cultivation, selection of seed, and planting, is furnished by the department at Washington. Generally, the first year the seed is furnished by the department at Washington, from some well-established variety and from well-tested and selected seed, the funds for its purchase being often subscribed by local bankers, business men, and friends generally. After the first year the boy is urged and instructed to select his own seed in accordance with approved modern methods of seed selection. One of the principal and most emphasized rules is that the boy must follow some plan of culture and must agree to read the printed instructions on corn growing sent out from the department, which are written as part of the Farmers' Co-operative Demonstration Work. No trouble at all has been experienced in getting local bankers, merchants, school authorities, and private individuals to offer different prizes in the contest which results. Where there is a county fair, the contest in the county is held at the fair, otherwise at the county seat on a day selected in the fall. It is the plan to have the best exhibits at the county contest, the winners of the prizes there, exhibit at the state fair, and thus determine who has done the best in the state. At every exhibit, whether in the local school, at the county fair, or at the state fair, talks on farming and corn judging and seed selection are given by experts from the department or by local farmers.

The Cream Separator is King.

We want every reader of this paper to take a good, careful look at the big advertisement of the Albaugh-Dover Company, on page 11 of this paper. This advertisement is an exposition of the merits of the Butterfly Cream Separator. It is so complete we will not try to add anything to it. We would like to say, however, that the prices quoted are remarkably low and that the guarantee under which the machine is sold makes every buyer perfectly safe. A new catalog for 1910, giving prices, illustrations and testimonials from over a thousand users may be had by sending the request printed in the advertisement to the Albaugh-Dover Company, 2145 Marshall Blvd., Chicago, Ill.

"California Now or Never"

"The Kuhn California Project" will irrigate 250,000 acres in the famous Sacramento Valley. The land is ready! The water is ready! Are you ready? The sale of these rich valley lands has just begun in tracts of 10 to 80 acres. Small payment down, then ten annual payments.

The valley is garden soil, 50 feet deep, yielding immense crops of fruit, alfalfa, sugar beets and all the famous products of California. Mature orange groves on these lands have yielded as high as \$1,000 per acre. If you are going to have a farm, why not have the best? The Kuhns are always looking for the best, and their experts tell them in this enterprise they have found it. They are putting millions of dollars into improvements to make it still better. The land is close to big markets and will pay for itself.

You take no chance in buying land under the Kuhn projects. The Kuhn interests are irrigating 400,000 acres in the Twin Falls Country, Idaho. Their great Sacramento Valley project offers an almost frostless winter and a still wider range of crops. Organize a California Colony in your own city or town. Take your neighbors with you.

Just published a very choice book of 48 pages, "California—Now or Never." It is by far the handsomest California book ever issued and will show you at a glance whether you want a home ranch in California. To insure a select distribution, it is priced at ten cents. All other publications which are fully descriptive are free. Fill out the coupon below and mail. If you want the new book, enclose ten cents for each copy.

H. L. HOLLISTER, Dept. I, 205 LaSalle Street, CHICAGO, ILL.

Please send free information about Sacramento Valley Irrigated Lands to the following addresses:



800-ACRE STOCK AND GRAIN FARM

TWO miles two railroad towns; 2 miles to trolley line; 480 acres rich creek bottom and second bottom; black loam soil; does not overflow; best of corn, alfalfa and wheat land; 300 acres fenced hog tight, with good cross-fenced; two sets improvements; would make two good farms; No. 1 seven-room house; thr e good barns, good condition, room for 54 head of stock tied; never-failing well, soft water; three water tanks; 4-barrel supply tank; plenty bearing fruit trees; good housed stock scales and stock yards; 20 acres good timber, last a lifetime; never-failing supply natural gas to run all machinery, light and fuel. No. 2 improvements; good seven-room house; good water; good barn; 30x40, capacity 3,500 bushels grain, 12 tons hay; oat granary; cow shed; some fruit; one-half section pasture land; 200 acres limestone and 120 acres sand stone; grass; suitable to be made into a good farm; fenced with 4 galvanized wire; hedges, posts one rod apart. The natural gas sold from the 800 acres is \$1,000 cash in advance each year and free fuel for house. 175 acres fine growing wheat. The crops for 1909 will show the real value of this farm. It will be priced on good interest paying basis, one-half cash, balance time if desired, to suit purchaser; low interest; 200 registered cattle; 300 head hogs; all stock priced with or without farm. Want to retire from business. No trades considered. Come and see me.

R. M. DOBSON, OWNER, INDEPENDENCE, KANSAS.

RICH SPOT WHERE LAND IS CHEAP

BEAR RIVER VALLEY

We are selling lands in this beautiful section of Southern Idaho at from \$15 to \$45 an acre. This is one of the great land opportunities, as the soil of Bear River Valley has already broken several records in size of yield. We want to show you this land. Please ask us for railroad rates and complete information. Representatives of our company will be at the Merchants Hotel, Omaha, about three days before Homeseekers' excursion dates which are the first and third Tuesdays of each month.

BEAR RIVER VALLEY LAND CO.,
Box 200, MONTPELIER, IDAHO.

MINNESOTA CORN LAND

We have a number of choice farms for sale in Lyon and Murray counties; well improved and the best of soil, at from \$10 up. Terms reasonable. If interested, write **THE WESTBEE, MOORE LAND COMPANY** - - - BALATON, MINNESOTA.

MR. FARMER:

Did you ever own a farm in the blue grass, corn and clover belt? Did you go a little too far? If so, write me. I have corn, clover and blue grass land in northwest Missouri, temperate climate, good improvements, 365 acres, rich soil, fine home, modern improvements, water system, barns and corn cribs, scales, hog-tight fencing. All extra good. Three and one-half miles from town. Possession now. Easy terms. 367 acres, grain farm, rich soil, 7-room house with cellar, three porches. Two large barns, large corn crib, scales, other outbuildings, hog-tight fencing, 3 1/4 miles from town. Easy terms, 5 1/2 per cent interest. Schools and churches paid for, low taxes, good market towns and railway facilities. State and soil map free. For full particulars write, **BAZEL A. MEEK, Owner,** Chillicothe, - - - Missouri.

I HAVE 50 FARM BARGAINS

IN Kansas and Missouri, which must be sold before seed time. I know that I can suit you with anything from 160 to 550 acres. Write me just what you want. Have 3,300-acre ranch, highly improved; 200 acres alfalfa, \$12 per acre. **G. W. GOLDMAN,** New York Life Bldg., Kansas City, Missouri.

FOR SALE 400 acres at \$20 per acre; mostly level, tillable alfalfa land; living water; 2 miles from town and railroad; no improvements; and cut \$800 wild hay, 1909. 335 acres at \$22.50 per acre; mostly level, tillable alfalfa land; living water; 3 miles from town and railroad; no improvements; yields \$800 wild hay yearly. **Lee Card, Chadron, Neb.**

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also 1/2 section wild, \$25. **E. J. McMahon, Endicott, St. Paul, Minn.**

A GUIDE TO THE LAST WEST

THE 1910 EDITION IS NOW READY. Send for a free copy. It describes our 100,000 acres choicest Farming Lands in the Trumpling Lake and Houghton Lake districts of **Western Canada**

It tells you how to secure a home or to make a profitable investment; tells of the great crops, low prices, easy terms; of the many reasons why you should investigate NOW, before it is too late. Our private ear, the "LENZA," goes the 1st and 3d Tuesdays each month. We save you money on Fares, Meals and Berths. Write today for our free "Guide." Don't put it off. Address our Main Office, 240 Germania Life Building, St. Paul, Minnesota.

LUSE LAND & DEVELOPMENT CO., Ltd.

RECEIVER'S SALE The entire Creamery machinery, building and grounds known as the Lone Tree Creamery, Brown County, Minnesota, will be sold by the undersigned receiver at a private sale within the next thirty days. Equipment first class and in clean running order, located in one of the richest farming sections of Southern Minnesota. Address all communications to **J. C. JACKSON, Receiver, Morgan, Minn.**

HOMESEEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address **The Allen Co. Investment Co., Langton, Kan.**

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

WESTERN CANADA

What J. J. Hill, the Great Railroad Magnate, Says About Its Wheat-Producing Power

"The greatest need of this country (United States) in another generation or two will be the providing of homes for its people and producing sufficient for them. The days of our prominence as a wheat exporting country are gone. Canada is to be the great wheat country." **J. J. HILL.** This great railroad magnate is taking advantage of the situation by extensive railway building to the wheat fields of Western Canada. Upwards of

125 Million Bushels of Wheat were harvested in 1909, and the average of the three provinces of Alberta, Saskatchewan and Manitoba will be upwards of 25 bushels per acre. Free homesteads of 160 acres, and adjoining pre-emption of 160 acres at \$3 per acre, are to be had in the choicest districts. Schools convenient, climate excellent, soil the very best, railways close at hand, building lumber cheap, fuel easy to get and reasonable in price, water easily procured, mixed farming a success. Write to best place for settlement, settlers' low railway rates, descriptive illustrated "Last Best West" to Sup't of Immigration, Ottawa, Canada, or to the Canadian Government Agent. (S) **W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.**

GARDEN HOMES IN SUNNY COLORADO

With water guaranteed for all time. We own 16,000 acres within 5 miles of Pueblo, now ready for the plow, in tracts of 10 to 160 acres. Alfalfa, wheat, oats, barley, sugar beets, potatoes, cantaloupes, fruits and berries are grown here abundantly. Big demand for poultry & honey, from this district. On 5 transcontinental railroads. Good markets and shipping facilities. Finest climate in the world. Good schools and churches. Our selling plan and terms are the best. Write for illus. booklet, map, terms of sale and particulars relative to transportation.

The Teller Reservoir & Irr. Co., 803 C No. Santa Fe Ave., Pueblo, Colo.

YOU Can make more money in the Real Estate business, with less capital than anything else. We teach you The Real Estate Business through our instruction department and then appoint you our agent in your territory and work with you. Live men make **\$3,000 to \$10,000 a Year** If you are ambitious and want to get into a good business for yourself, write us today and we will send you our FREE booklet telling you HOW we teach you "The Real Estate Business." **Instruction Department, MORDEN LAND AND LOAN CO.,** 538 Palace Bldg., Minneapolis, Minn.

Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana In Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit; truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops. **NO IRRIGATION SCHEME.** 60 inches annual rain fall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county sea—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. **J. D. LaBRIE, Gen'l Land Agent Pine Land, Miss. Co.,** 533 Keith & Perry Bldg., Kansas City, Mo.

HOMESEEEKERS

Should write for our 16-page booklet, "Opportunities For The Homeseeker." It tells about the wonderful possibilities now opening up in the different sections of the country. Send 10 cents for a copy of "OPPORTUNITY," our big monthly magazine, and we will mail you "Opportunities For The Homeseeker," free of charge.

THE PROGRESS COMPANY, 608-558 Rand-McNally Building, Chicago, Illinois.

LAND OPENING

IN the famous Arkansas Valley, Colorado. Our irrigation system is one of the best, and our land as fertile as any in Colorado. A reasonable number of tracts now offered at \$30 per acre, with perpetual water right on terms without interest. This land will quadruple in value within a few years. Close to R. R. and markets. Your railroad fare refunded if you buy. Write for map and booklet. Agts. wanted. **MONSON & MALCOM REALTY CO.,** 300 Kirtledge Building, Denver, Colorado.

... BUY ... South Dakota Land KADOKA, STANLEY COUNTY.

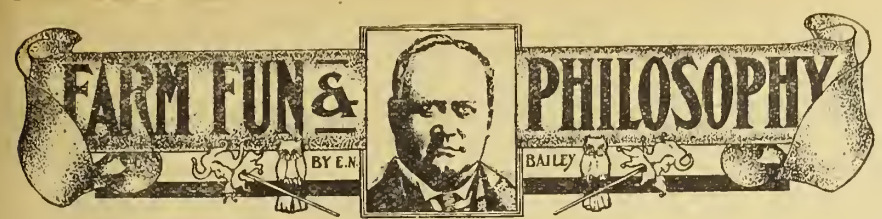
RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gilt-edge farm mortgages for sale. For description, write **F. E. Reidinger Land Agency, Kadoka, S. D.**

EASTERN KANSAS

I HAVE for sale at owners' prices over 300 choice improved farms in Lyon and Coffey counties, in the beautiful and fertile

NEOSHO RIVER VALLEY Fine corn, wheat, alfalfa, timothy and clover. Write for new illustrated descriptive circular. Mention The Homestead when writing. Address **ED F. MILNER, HARTFORD, KANSAS.**

BUY GOOD SOUTH DAKOTA FARM LANDS at \$15 to \$25 per acre. Write today. **L. A. PIER LAND CO.,** Belvidere, S. Dakota.



ADVICE TO A MAN IN LOVE.

A young man inquires as follows: "I am deeply in love with a charming young lady. Although she seems to like my company, yet her deepest affection seems to be lavished on an old gentleman eighty years old who is said to be worth several millions of dollars. Do you believe that the young lady loves me, and what would you advise me in the premises? Anxiously yours, Charley."

We believe the young lady loves you well and truly and if she does, she will marry the old man.

You should kiss her a loving good bye and depart immediately for the far West. There are places there, Charley, where a fellow can easily earn a hundred dollars a day doing nothing but carrying water to himself, where it is so dry that a working man cannot afford to sweat. Millions have been saved there by retiring to a cool place and doing nothing but conserve moisture. We can conceive of no more ideal existence, Charley, for a young man, than this, while the unearned increment piles up at home around the hearthstone that will ultimately become his own.

Priscilla Wants to Know.

Priscilla writes that a young man whom she dearly loves escorted her to a dance recently and just as the orchestra struck up, began to scream, jump into the air, wave his hands and declare that the place was filled with snakes and serpents. She wants our opinion as to whether or not he was intoxicated.

Your description of his symptoms, Priscilla, would indicate that he had investigated at least one boozeatorium before coming after you, or some

girl may have dropped a rat from her hair, which will produce at times these symptoms.

You should call a veterinarian at once and have him tested. He may have the blind staggers, the St. Vitus dance or the ordinary magrums. Should he respond to the test freely it is probably nothing but demoniac dementia, but should he fail to respond, put him into a folding bed and lock it for twelve hours and then give him two ounces of spirits frumenti followed by an ounce of H. O. 2. In half an hour he will sing like a nightingale and be as happy as a horse thief out on parole.

The keen eye of a veterinarian, Priscilla, can detect the incipient phantasmagoria of coagulated mentality, when to the profane it is merely an infinitesimal speculation. Research into the labyrinthine intricacies of such aberrations as you describe can be accomplished only with a Norman Percheron stomach pump, or a Nancy Hanks tracheoscope.

Raising Calves.

Some people put in a lot of time and attention on their calves and seem to think that a calf needs to have something done for it all the time. This is erroneous if you want to raise it quick. Feed the calf some skim milk, and if you have none have the hired girl skim some. Don't give it too much, just enough to wet its whistle. When it is a week old give plenty of corn and beans—it won't eat many. You should also let it run in the barnyard to a rye straw stack.

When two weeks old feed it only once a day and don't give it any water, it might warp the calf. Have a dog and a lively kid chase it two or

three miles every day; this will keep it from getting hump shouldered and it won't get hoof bound. Be sure and have it out in the sun where it is so hot that a fly can't alight on its nose without burning its feet. Examine it often to see if it is lousy. Of course it is and you should pour kerosene on it and have it chased some more, then curry it with a garden rake, this will take out the largest ones and make the calf tractable.

If the calf stands in the sun and bawls it is a sign that it is cold. Chase it an hour and get its body in circulation. If it lies down and bawls, it is a sign it is lazy and should be whipped an hour. The inside of a calf is made up of dutch cheese and rennet, and that is another reason why you should run it.

Calves raised in this manner can be raised successfully by the tail in September and but little strength will have to be exerted. You should pull its horns out or drive them up, for if you don't if it lives to be two years old it will have the hollow horn. Calves seldom have the roup or the heaves when raised often by the tail.

Be Cheerful.

Why go about with a scowl on the face in this world of light and delight? There is nothing so bad that it could not be worse, except politics, and it is not necessary to have these in the superlative degree.

Julius Caesar was a great man in his day, and if the day had been longer he might have been a grater. Jule lived in Rome and cleopatriated Mark Antony to quite an extent at one time. He had a wife that folks have talked about ever since he died, and he lived in Rome about the era it howled the second time. A part of the people there were just ordinary thieves and the rest were banditti. Every one ate macaroni, and even the ladies of the court smelled of sour dough. Caesar was good-natured and could look sweet on a diet of sour dough and dried cucumbers. Julius never went around with his nose turned up, so far as history states.

Julius caught it in the ides of

March, and that is a grievous place to get it. Brutus was the gentleman who performed the surgical operation on him, and Brutus was a pleasant-faced assassinator, too. Brutus stuck his cheese knife clear through him the first attempt. He removed the veriform appendix, cut out a kidney stone, and let his pancreas out in the moonlight of the Tiber. The operation was a success from a surgical point of view, but Caesar died. However, he did not scowl; he said, "Et tu brute," which would imply that Brutus had eaten too much limburger cheese and that great Caesar knew it.

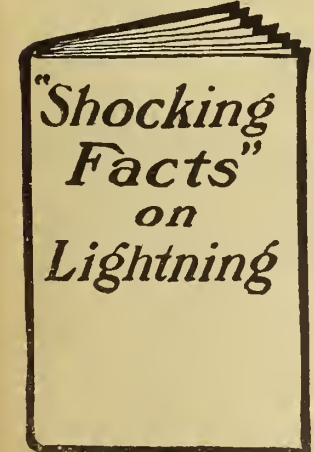
There was Bonaparte—he always smiled, and when the people were eating frogs and kicking up their heels on the banks of the Seine, Bonaparte got on the scene, too, and frogged all the banks in France for what ready money he needed and smiled when he did it. Nothing ever made Bonaparte scowl but a Russian war song with teeth on it like a crosscut saw, and when the British starved him until the bony part was all that was left of him, he used to smile so you could hear him three blocks away.

Bonaparte was a great man; so was his wife, Josephine, but she and Bona parted. Thus does history repeat itself. The Gould girl and Boni parted, too. Then was seen a scene on the Seine and everybody smiled. This should teach us to be cheerful like the French people are when they get Bonaparted.

The north end of a south wind is colder than the south end of a north wind in the winter. When old Boreas meets himself coming back he always turns tail and goes to Medicine Hat to recuperate.

There are two good ways of increasing the number of acres of cultivated land on the farm. One is to tile out the wet places and the other is to decrease the size of the pasture and make up the shortage of summer feed by feeding green corn or other feeds at a time when pastures are usually short no matter what their size may be.

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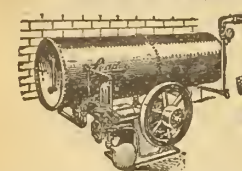
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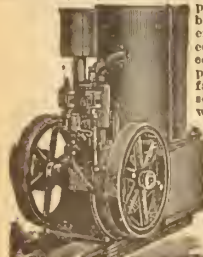
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WITH THE EDITOR.

Chancing to be in the office of a well-known lawyer recently I encountered a friend who had a few moments before come from an interview with a physician whom he had consulted for trouble with his heart.

As I entered the office my friend, the lawyer, was listening attentively to the sick man's story of the way his heart was behaving. As he concluded his story he said, "And Dr. P— says I must quit tobacco." "Will you?" I asked. "Guess I'll have to," he said. "It's either that or let my widow collect insurance." He smiled as he spoke, but there was no mirth in his smile—he was thinking of the struggle ahead of him.

Our friend, the lawyer, said: "I know just how you feel, Jim. I went through it all six years ago. I had been having all sorts of trouble with my stomach; couldn't digest anything; was in misery for hours every time I took food. The doctor said I was robbing my stomach of the gastric juices by spitting, and irritating my whole system by nicotine. I listened to what he said, but kept right on smoking and chewing—and suffering. Well, one night I wakened with a horrible smothering at my heart and a burning pain in my stomach. It was so bad that I was frightened. I couldn't get to sleep and as I lay awake I said to myself: 'You aren't a fool, are you? If you were sitting so near a fire that it burned you, you would move away from it, wouldn't you? Well, you're not going to let tobacco ruin you, are you?' I made up my mind then and there that I would quit tobacco and quit it for good. I had played with quitting it before—this was to be dead earnest. It was. And it was one of the hardest battles I ever fought. Sometimes it seemed as if I just had to have a smoke, just had to have a chew. But I didn't. And by and by I got the appetite conquered so I could carry a piece of tobacco in my pocket and smell of it just to show myself that I was my own master."

His friend smiled a wan smile and said: "Well, I'm strictly up against it. I've got to quit and that's all there is about it. I wish now I'd listened to the doctor long ago. He told me a year ago I had to quit, and now my heart is so much worse I suppose it will always give me trouble as long as I live."

A week before this incident occurred at the table I noticed a man eating meat who was such a confirmed dyspeptic that for years meat, among other things, had been forbidden him. "Why, Mr. H—," I exclaimed, "what's happened that you are eating meat?" His wife said, "Oh, he's eating almost everything nowadays." "You don't mean it," I said. "You're telling me a fairy tale." "Not a bit of it," she replied. "Well, explain the miracle," I said.

"I guess it was giving up tobacco," Mr. H— said, a little awkwardly, as his wife maintained a discreet silence. "The doctor says that's it. It seems a queer thing after all these years of doctoring and taking medicine to find out that I could have cured myself any time just by quitting tobacco. The quid was never out of my mouth; it was the last thing I thought of giving up, and it came pretty hard."

We are all slaves more or less, some to one habit and some to another, but some of us feel as if liquor and tobacco were more serious than some other bad habits. They are serious enough in all conscience—as the little incidents related go to show. Nowadays Aesop's fashion of pointing out the moral of a story has fallen somewhat into disfavor, but perhaps in a home department it may be permitted to remark, apropos of the little stories related, that when it is so difficult to stop it would be better not to begin.

There is very little use entering ob-

jections to tobacco on the ground that the money it costs is worse than wasted. Men who find pleasure in the use of tobacco do not think the money the habit costs them wasted any more than other men do when they pay \$1.25 for a porterhouse steak. But if those men could be led to see that the measure of their pleasure in indulgence is the measure of their misery in deprivation, some day they might pause to consider, and the consideration might lead to action.

Then there are always the young. And it is for the sake of the young in Home Department homes that tobacco is given this attention here With the Editor. Without preaching, boys should be thoroughly imbued with a knowledge of the physical evils attendant upon the tobacco habit. Usually it is cigarettes or cigars that lads begin with. Wise parents will make it a point to gather up facts and figures regarding the various ills (physical, moral and financial) attendant upon the use of these, and see to it that their boys become acquainted with them. In this way they become in a measure forewarned—and to be forewarned is to be forearmed.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

There is an eye that never sleeps,
Beneath the wing of night;
There is an ear that never shuts,
When sink the beams of light;
There is an arm that never tires,
When human strength gives way;
There is a love that never fails
When earthly loves decay.

They that wait upon the Lord shall renew their strength.

SERVING.

The sweetest lives are those to duty wed,
Whose deeds, both great and small,
Are close-knit strands of unbroken thread,
Where love ennobles all.
The world may sound no trumpets,
Ring no bells;
The book of life the shining record tells.

Thy love shall chant its own beatitudes
After its own life working. A child's kiss
Set on thy sighing lips shall make thee glad.
A sick man helped by thee shall make thee strong.
Thou shalt be served thyself by every sense
Of service which thou renderest.
—Elizabeth Barrett Browning.

HOUSEHOLD NOTES.

To ascertain if a cake is done, press lightly with the finger; if the surface rebounds without making a hissing sound, and if a toothpick comes out clean when inserted in the center, the cake is done.

If when using lemon for flavoring you need only half of one, put the other half on a plate and cover with a tumbler. This will exclude air and will prevent it withering or getting moldy.

To revive root vegetables that have withered slice off the end of each and lay in cold water. In a few hours they will be as hardy and healthy as ever.

Always lower the temperature of the oven somewhat fifteen or twenty minutes after a roast has been placed in it. This will insure that the juices will be retained.

If table silver is placed in hot soap-suds immediately after being used, and dried with a soft, clean cloth, much of the work of polishing will be saved.

The careful housekeeper covers her mattresses and other tickings with unbleached muslin to keep them clean. This should be basted on, or better yet, should be provided with buttons and buttonholes.

NOURISHING MEAT SUBSTITUTES FOR SEVEN DINNERS.

The housemother in a family where it was decided to try doing without meat served the following dinners for a week. The family was well satisfied and the housekeeping bills were smaller than usual:

Sunday—Oysters on half shell, creamed oysters, escarole salad, plum pudding, milk, coffee, nuts and raisins.
Monday—Bean soup with croutons, Spanish omelet, French fried potatoes, stewed tomatoes, mixed salad, rice pudding, milk, coffee.

Tuesday—Tomato soup, baked eggs, French fried potatoes, string beans, salad, apple pie, milk, coffee.
Wednesday—Bean soup with croutons, scrambled eggs, baked potatoes,

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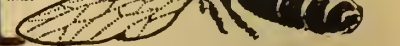
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We turn all prospects over to you in your territory.

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Hawkeye Lightning Rod Co.
Riverside, Iowa.

peas, salad romaine, chocolate pudding, milk, coffee.

Thursday—Cream of celery soup, macaroni and cheese, boiled rice, apple salad, bread pudding, milk, coffee.

Friday—Corn soup, broiled salt mackerel, boiled potatoes, tomatoes, chicory salad, lemon meringue pie, milk, coffee.

Saturday—Split pea soup, fried potatoes, stewed tomatoes, onion, lettuce and celery salad, coffee, jelly and whipped cream, chocolate cake, milk, coffee.

AMONG OURSELVES.

Our first number is given place because I wish to direct the thought of the circle to the harm wrought, to the blighting influence, in the home of an unloving, unlovely temper:

I have been reading Among Ourselves for eleven years and like it fine. I have been silent, but would like to express myself to the little woman who asks advice. Don't let your husband think you have no will, or brains either. Be reasonably independent. I will give my married experience. My husband never told me he loved me in his life; he thinks a person can think just as much of one good person as another. He says if he ever loved anyone or anything he doesn't know it. He never says he loves me because it might not be true. He treats me well in every way, but one I will speak of later. We have our little quarrels, but when I am sick he is as good to me as circumstances will permit. When he goes to town I nearly always go along, but I most always go to town alone unless he has some bank business to do. Sometimes he has me do that for him. We are both Methodists and go to Sunday-school; he is superintendent. We have lived with his father ever since we were married. His father is very disagreeable, so you see we are not a happy family. His father is the cause of our quarrels. We have a farm joining his father's, but have no house on it, and my husband listens to his father in everything he says. We are not able to build, so my husband says if I and his father cannot live together he will not live with either one of us. I have very poor health (we have lost four children at birth), so I have no home, no children, but God knows best. Children would cause more trouble than ever here with his father. God took them to a brighter home. I do my housework and sewing and gardening and sew for other people. I have taken four horses and plowed sod day in and day out, but riding the plow would be pleasure if I had a home. My husband doesn't use tobacco nor drink anything stronger than water, and we are not jealous hearted.

If the husband of Rose were a drunkard or a non-church goer, he would be considered a fit subject for prayer that he might be brought to see the evil of his ways. He is type of a class of men who are, to put it mildly, no credit to the church, since they really have not the spirit of Jesus.

We need to broaden our ideas a bit in this direction, as Edna Pound remarks in the following:

I have been reading the letters in answer to M. L. H. and I also have a few words to say. M. L. H. says her young man friend drinks, plays cards, dances and is no Christian. Now, dear friends, what is a Christian? I myself belong to no church, but I consider myself a Christian. I am willing to help others all I can when in need. I sincerely believe a person can be a good Christian without belonging to a church. Perhaps M. L. H.'s young man feels the same and is cheering some lonely soul during church services or doing some other good deed. There are as many people good Christians who don't belong to the church as do belong. I don't believe one must give up all enjoyment in life to be a Christian, and an innocent game of cards never lowered anyone in the eyes of God any more than these more churchy games they play at sociables. But as for drinking, if this young man is a drunkard I myself wouldn't have anything to do with him, let alone marrying him.

The point which I wish this letter might emphasize is that some things are, or should be, a bar to marriage. It is for each one to decide on the habits or qualities which would mar marriage. One person cannot tolerate a man who even touches intoxicants; another believes dancing and cards so sinful that a Christian woman cannot expect happiness with a partner who wants these amusements; still another, from bitter experience, says that a cold, jealous, or passionate temper is to married life what the little foxes are to the vines. This thought applies equally to men, though the detail may vary somewhat. Let every one be persuaded in her or his heart, and governed accordingly.

Peggy D. comes to talk about "Old Ladies," the subject introduced by Polly a few meetings back:

I should like to add a little to Polly's talk about old ladies. I have never been unfortunate enough to have met an old lady who was "sour and hateful," but I have a middle-aged neighbor who I am afraid will be a "sour"

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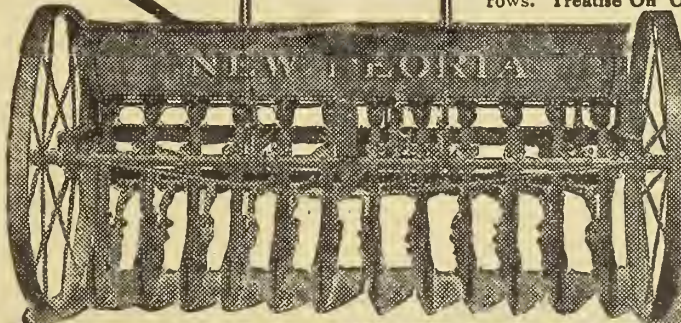
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Other drills have wheels 42 inches or 44 inches high. Ours are 48 inches, with long hub and wide tires. Means easiest pull. Made in 18 sizes—one for every man's needs. The practical size for Iowa and Illinois farmers is the 12-7, which sows 7 feet and covers 2 corn rows; or the 18-7, which sows 11 feet wide, covering 3 corn rows. **Treatise On Oats Raising—Free.**

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FREE BOOK



Send postal now for this valuable book, also catalog of Peoria Drills and opinions from men who know by experience what this drill will do. Address

Peoria Drill & Seeder Co.
2434 N. Perry Street.
PEORIA, ILL.

Plow and Harrow at Same Time

This plow attachment pulverizes and levels the soil as it is fresh turned and moist, thereby making a perfect seed bed before the ground gets lumpy and dries out. It is light running and requires no more horses than for ordinary plowing. Made for sulky and gang plows.

The cutting blades are made of the best plow steel, with plenty of curve to the blade so that it produces a draw cut. These blades are self-cleaning and cornstalks or trash cannot lodge.

THE NATIONAL ROTARY HARROW ATTACHMENT is destined to become the greatest farm labor-saver of the age! It does the work far better and easier than the old drag, because of the draw cut blades, and also because the ground is easiest pulverized and leveled when it is fresh turned. When your plowing is done, your harrowing is done! By all means SEE this great machine attachment. It will save you dollars, time and trouble. Ask your dealer to show it to you today. If he hasn't it, write us today and we will see that you are supplied. (1)

NATIONAL HARROW COMPANY, Box 122, LEROY, ILL.



Here Is Something New From Kalamazoo

Prove for yourself in your own home, that the Kalamazoo is the most perfect—most economical—most satisfactory range for you to use—Your money back if it's not.

Send for Catalog No. 165 with special terms and compare Kalamazoo prices with others

Cash Or Time Payments

We want every housewife to know the comfort and convenience of a Kalamazoo in her home. You can buy on easy time payments or pay cash if you like. Either way—you save \$10 to \$20 on any stove in the catalog. We make it easy for responsible people to own the best stove or range in the world.

We Pay the Freight

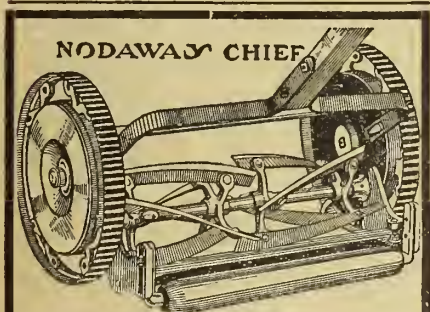
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Kalamazoo, Mich.

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THE Sterling Mill is Triple Geared. Has fast grinding burrs. Made with one sweep or two sweeps. Has large capacity for power used. Get one of these mills and see how your stock will improve on ground feed. Use less grain and get all there is in it. Write to us about this mill. Address

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STERLING, ILLINOIS.



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A farmer knows a good machine when he sees it. For this reason, we will ship any farmer a

Clarinda Lawn Mower on Thirty Days' Trial

If it does not run lighter, cut higher grass and take better care of the cut grass than any other mower, it can be returned at our expense.

The Clarinda Lawn Mowers have our famous divided reel, raised edge cutter bar and are self-sharpening. Should last a lifetime.

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No mower with the old style reel and low wheels can cut with these.

Clarinda Lawn Mower Co., Clarinda, Iowa.

BREEZE 7 Handsome Models \$275
Travel the worst roads And Motor Vehicle with ease and comfort Up.

SEND FOR CATALOG "O" The breeze is strong, simple, speedy and safe. Best motor vehicle built for country roads—mud, deep sand or high hills. 13-19 H. P. engines. Lowest cost of up-keep, least tire trouble. Handsomely finished. THE JEWEL CARRIAGE CO., CINCINNATI, OHIO.

SUGAR Fine Gran. lb. 2½¢

We SAVE you about one HALF on Groceries and general Merchandise and pay freight. Send no money but write at once for Free Catalogue 163 **CENTRAL MERCANTILE COMPANY,** Dearborn St., Chicago.

Radger HOPPER COOLED Engines

The Radger has only one-third as many parts as other engines.
It is frost proof and hopper cooled.
It is the simplest engine made and will do more work at less cost than any other engine, will do any power job you have on the farm. Easy starting, perfectly balanced and thoroughly reliable in all kinds of weather.
The Radger has no big tank to fill—no pipes, fittings or valves to freeze up.

Our interesting engine book will save you from making a mistake. It shows our stationary, portable and semi-portable types, also saw rigs and pumping plants. 2 1/2 to 50 H. P. Write for it today.

Free Trial We let you try out the Radger on your farm before you buy it. Let it prove itself. Ask us for our proposition.

Christensen Engineering Co.,

1024 30th St.,
Milwaukee,
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Get all the Profit out of your grain with a New Huber Thresher

It bags all the grain you grow in clean, perfect condition—absolutely without waste and without crushing the grain. It saves the profits that the less thorough, ordinary thresher sends to the strawstack. It does the work quicker, yet requires less power to do it—that is where it saves you money. Every improvement which we have introduced has been thoroughly tested in actual use. The New Huber Thresher is staunchly built—will outlast any other make. You need a thresher, why not get the best—the one that will give you all the profit you should get from your grain? Write for our free illustrated book; it tells why you should have a New Huber Thresher on your farm. Write to-day.

THE HUBER MFG. CO., 624 Center St., Marion, O.

SAVE MONEY ON ROOFING

\$1.00 buys full roll (108 sq. ft.) of strictly high grade roofing, either rubber or flint coat surface, with cement and nails complete.
Most liberal offer ever made on first class roofing. Better than goods that sell at much higher prices. Don't spend a dollar on roofing until you have seen

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You send no money when you order Unito Roofing. Satisfaction Guaranteed. Write today for free samples for test and comparison and our unparalleled selling plan.

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LEARN TO RUN AND REPAIR AUTOMOBILES

You can learn all in six weeks. Demand for Trained Men far exceeds the supply. Work pleasant. Every man wanting to own an Automobile, become a chauffeur, expert repairer, agent, salesman or desiring to learn any branch of the Automobile Business needs our practical course. Write today for our interesting Free Catalog.

KANSAS CITY AUTOMOBILE SCHOOL,
(Largest, Best Equipped Automobile School in America)
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WE SHIP ON APPROVAL
without a cent deposit, prepay the freight and allow 10 DAYS FREE TRIAL.
IT ONLY COSTS one cent to learn our unheard of prices and marvelous offers on highest grade toy model bicycles.
FACTORY PRICES Do not buy a bicycle or a pair of tires from anyone at any price until you write for our large Art Catalog and learn our wonderful proposition on first sample bicycle going to your town.
RIDER AGENTS everywhere are big money exhibiting and selling our bicycles. We sell cheaper than any other factory.
Tires, Coaster-Brakes, single wheels, parts, repairs and sundries at half usual prices. Do Not Wait; write today for our special offer.
MEAD CYCLE CO., Dept. D 184 CHICAGO

Turn Back To Page 39 and See Galloway's Big Ad

Send your name to Bill tonight.

When writing to advertisers please mention this paper.

old lady. She has been a semi-invalid for years and, although surrounded with luxury, cannot see a "silver lining" to any cloud. I often stop to try and cheer her, but feel my efforts are almost in vain. She tells me I paid too much for my new suit because she can see it is only half wool. She tells me I am getting as old and gray as she, and surely my husband must mistreat me as hers does her. (Both men are model husbands.) That I am much too fat as she is too thin. That I should take all the pleasure I can in my babies now, for as they grow older they will be an unending source of trouble, just like hers. (Fairly good, well-behaved children.) She rarely keeps a "girl" long, but at present has a jewel. Not long ago, however, this girl broke a gas-light mantle while dusting. "Aha!" sneered Mrs. X., "a quarter out of your pocket." She has a young daughter who already has the querulous, bitter tone, and she is but fifteen. I have heard the lady's mother was the same. I think such people ought to serve as a lesson to us, to guard our minds and tongues, for our own sakes, our children's sakes and for the sake of those around us. I do not shun such people because I find this lesson brought home more forcibly to me during every moment of companionship with them and it inspires me to put a double sentinel to guard over my own thoughts and words. And one soon finds the sharp tongue lashings of the "crabbed" cease to sting and only a great sorrow remains that there are people who will allow their dispositions to be so ruined.

A charming woman once said to me that the sweetest compliment ever paid her was by a young girl who, clasping her hand impulsively, said: "You're going to make the dearest, sweetest old lady ever was. If I could grow old like you're going to I wouldn't mind it a bit." Intuitively the young girl had grasped the thought that being dear and sweet and lovable in youth is the way to be dear and sweet and lovable in old age. Peggy D. brings out the thought that old people who are disagreeable should be like landmarks pointing a road, a road in this case to be avoided.

ed. It is good for us to have plain words on this matter. Peggy D. has our thanks.

From Nebraska and Iowa come two recipes for preserving meat for summer use. They differ somewhat from the hints already given, it will be noticed:

To can meat, slice meat as for table and salt to taste with this mixture: One teaspoon sugar and pinch of salt-peter, for every cup of salt. Have jars scalded and clean and pack jars good to neck of cans and screw covers on loose and set in boiler with towels in bottom to prevent breaking. Fill on cold water to neck of jars and boil for six hours for quart size and four hours for pint size. Fill on boiling water as it boils away. Take out cans on hot board and put on rubbers and fill up with hot, salted water and put covers on air tight. I have found this good. To make dried beef rub meat with salt and let lay on slanting board for forty-eight hours. Then brush off salt with a dry cloth and have ready a mixture of one teaspoonful of brown sugar, one-half teaspoonful salt-peter, one teaspoonful red pepper and rub on meat. Pack in a barrel with a good sprinkle of salt in the bottom and between layers. Let stand five days then pour on this brine: To each pail of water required put four pounds of salt, one ounce of salt-peter, one pound brown sugar. Boil and skim off scum and let cool and pour on meat. Let lay for twelve days; hang up few days to dry nicely before smoking. Putting away meat should be done before the flies come.

For every twenty pounds of beef take one pint of salt, one teaspoonful of salt-peter and one-quarter pound of brown sugar. Rub the meat with this mixture for three days, lay it on a board to drain off, turn it every day for a week, then it is ready to hang up. I have used this recipe and found it excellent.

The last recipe is more simple than the first. A good plan would be to try both and see if the difference in treatment made any material difference in the palatability or the keeping quality of the meat.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson XI.—Matthew IX., 1-15.

March 13, 1910.

TWO MIGHTY WORKS.

One day, after hours of tireless industry in teaching and healing, the master gave his disciples "sailing orders." It would have been a comparatively short tour on foot around the head of the lake; but Jesus needed the rest he could have on ship-board. So, perhaps, in the very boat (Simon Peter's) from which he had been preaching, he set sail. A little fleet accompanied him. The curious or devoted followed in his wake. There was nothing preternatural in the storm which broke upon the ship and its convoys. The lake lies six hundred feet below the sea level. The streams tributary to it have cut deep gullies, sudden windstorms are caused by the proximity of snow on Lebanon and the arid wastes of the desert. These hurricanes find natural vent through the "gigantic funnels," and instantly convert the placid lake into a boiling caldron. When the storm broke, Jesus was asleep on a mat, perhaps in a little cabin at the stern. The disciples did not appeal to him immediately. They first did everything their nautical education had taught them to do. But when the waves kept breaking and filling the boat, they awakened the master. As men in fear are apt to do, they forgot their manners, and cried, "We perish!" "Carest thou not?" Jesus observes a divine order in coming to the rescue. He first quiets the tempest in the heart. With reassuring emphasis and inflection, he said, "Why art thou fearful?" "Then" he arose and rebuked the external storm. A new meaning for those men must have come into the familiar lines of the Hebrew hymn—"Thou rulest the raging of the sea," and, "The Lord is mightier than the noise of many waters." They saw him "gather the winds in his fist." Though long acquainted with this little sheet of water, they had never seen such a storm give place to such an instantaneous and complete calm. There is a picturesqueness in the words, "the wind ceased." They grew weary and

sank to rest. Talmage once said, "Jesus lulled the lake to sleep on the knee of his omnipotence."

The Teacher's Lantern.

Jesus started on no mere pleasure-trip to the farther shore, though he enjoyed the view and refreshment en route. In this instance, as in his whole life, he had an errand of mercy. The humble environment of Jesus' life is here in evidence. He had no pleasure yacht at his disposal, only a common fisherman's boat. Jesus sleeps, but he never oversleeps. Those who have no faith for practical and present use in an emergency, have none. Theoretical faith is no faith. Each of the evangelists reports the disciples as saying something in their fear, which the others omit. Putting them all together, and personifying the exclamations, one might read: Little Faith cries, "Save!" Much Fear, "We perish!" Distrust, "Carest thou not?" More Faith, "Lord!" Faint Hope, "Master!" Discipleship, "Teacher!" Like so many vivid incidents in Jesus' life, the whole scene seems an acted parable. The emergencies of individual and organized life (church and state) are here depicted; the revelation of personal character in conduct under such emergencies; the supreme authority and power of Jesus. Jesus sought centers of population. Galilee was such. Josephus may be unsafe when he says that there were 250 cities there of 15,000 each, but recent exploration shows that the territory was so thickly built over as to make it almost a continuous village. This population was also remote from the ecclesiastical establishment, and so more independent and open to his message.

The following would be an appropriate notice to appear in several papers throughout the country: "Lost; somewhere between the Atlantic and Pacific, one meat boycott. Finder will please return to Cleveland, Ohio, and receive reward."

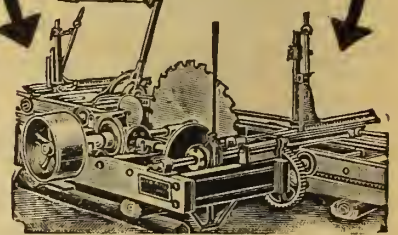
Make Big Money This Winter With An American Saw Mill

This simple, light running mill makes more and better lumber with less power and less help than any other. You can set up and operate any American mill with the directions before you. If you have no timber, your neighbors have. Don't let your engine lie idle.

124-Page Book, Free

Containing valuable suggestions about the care of saws, fully describing the features that make our mills best, giving prices and guaranty and full information about our Wood Saws, Sangle Machines and other wood working machinery. Write for book today.

American Saw Mill Machinery Co.
203 Hope St., Hackettstown, N. J.
1593 Terminal Buildings, New York



TRY THIS HOIST AND WIRE STRETCHER 30 Days At Our Risk



Send for one of these Benedict Combination Hoists and Wire Stretchers. Use it 30 days. Test it thoroughly, stretching wire, lifting all kinds of loads. Use it at butchering and fence building. Try it for removing and replacing your wagon box. Do anything you require to convince yourself that it is the handiest tool you ever had about the farm.

It is operated with one hand—easy, quick action—stops automatically anywhere you wish—can't slip.

The Harder You Pull The Tighter It Grips

Roped with 1-2 inch pure manila rope ready for use. Adjustable to allow for wear of rope and for use of different size rope.

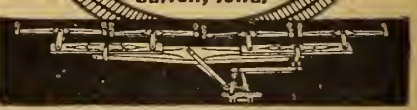
We will send one EXPRESS PREPAID. Make a thorough 30 days trial, and if it isn't everything we claim, we will take it off your hands and the trial won't cost you a cent.

Write us today. A post card will do. We make a full line of hoists, from 400 pounds to 5 tons capacity.

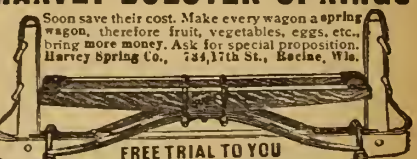
HALL MANUFACTURING CO.
410 Main St. Monticello, Iowa.

Heider Eveners

Are the best that skill and brains can produce. Made for 2, 3, 4, 5 and 6 horses. HEIDER 3-horse Wagon Eveners for wagon, manure spreader, grain drill or any other implement with pole. HEIDER 4-horse Plow Eveners work 4 horses abreast on gang sulky or disc plow, 1 horse in furrow, 3 on land. No side draft, all horses pull equal. We make Clevises to attach our Eveners to all plows. ASK YOUR DEALER for HEIDER EVENERS; if he can't supply you write us at once, we will tell you where and how to get them. Let us prove to you the many points of merit, why you should accept no other kind and insist on getting HEIDER EVENERS if you want the best on the market. We also make wagon doubletrees, single trees, neckyokes.



HARVEY BOLSTER SPRINGS



Soon save their cost. Make every wagon a spring wagon, therefore fruit, vegetables, eggs, etc., bring more money. Ask for special proposition. Harvey Spring Co., 734 17th St., Racine, Wis.

FREE TRIAL TO YOU

The New Royal Pitless Scale
Sold on 30 days free trial. Our price lowest. Catalogue and discounts. Address ZIMMERMAN STEEL CO., Dept. 31 Lone Tree, Iowa

When writing to advertisers please mention this paper.

DRESSMAKING—No. 67.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Closings at the left of the front make the latest feature of fashion and children's dresses are shown so quite as well as the grown-ups. This one is essentially novel and extremely attractive.



[6553 Girl's Dress, 6 to 12 Years.]

It is closed for its entire length with buttons and buttonholes above and below the trimming, invisibly beneath the trimming, consequently it can be opened out and laundered with perfect success and is especially well adapted to washable materials. Plaid



[6554 Coat with Long Revers, 34 to 42 Bust.]

Scotch gingham is the one illustrated with trimming of banding and buttons. Linen would be handsome so made, pique, and, indeed, almost all the simpler washable materials while the model also can be used for the wools of immediate wear. Plaid wool material with trimming of black velvet ribbon is always smart and attractive and suits

the design admirably well. Blouse and skirt portions are separate and are joined beneath a belt. The plaits over the shoulders give becoming breadth and the plaits at the back and sides of the skirt mean graceful fullness.

The dress is made with blouse and skirt portions which are joined and closed at the left of the front. The skirt is straight and the sleeves are made in one piece each.

The quantity of material required for the medium size (10 years) is 6½ yards 24 or 27, 4¾ yards 32 or 3½ yards 44 inches wide with 2½ yards of banding.

The pattern 6553 is cut in sizes for girls of 6, 8, 10 and 12 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

Coats of just the length illustrated are among the newest and smartest shown. They will be extensively worn throughout the coming season and also for the late winter. This one is exceedingly smart and gives the most becoming possible lines. It is made of broadcloth and is trimmed with soutache applied over an effective yet simple design, which is edged with plain banding and the revers are faced with ribbed silk. The plaits at the lower portion are both new and graceful and the coat is meeting with an enthusiastic welcome. The long, narrow opening is a feature and the single button marks the incoming styles.

The coat is made with front and side-front, back and side-back portions and is laid in plaits below the trimming. The long, narrow revers are rolled over and the coat can be held by a button and loop or with a braid ornament as liked. The sleeves are in regulation coat style.

The quantity of material required for the medium size is 4¾ yards 27, 3 yards 44 or 2¾ yards 52 inches wide with ¾ yard of silk and 4¾ yards of plain banding.

The pattern 6554 is cut in sizes for a 34, 36, 38, 40 and 42 inch bust measure, the braiding design 479 in one size only, and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents each. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

KILLING AND DRESSING GEES.

To the Editor of The Homestead:

To bleed a goose the knife is inserted in the soft spot at the back of the head severing the large blood vessel. After being allowed to bleed thoroughly the goose is placed over a vessel of boiling water, a cheese cloth or gunny sack being fastened over the top of the boiler to prevent the goose coming in contact with the water. Onto this the goose is laid, the cover replaced and the steaming process allowed to continue for a few minutes. The goose is turned so as to get the advantage of an all-round steaming and to prevent scalding.

With each goose yielding about half a pound of good merchantable feathers and feathers worth about fifty cents per pound, it is important that the feathers be well taken care of. With the steaming finished the goose is carefully examined and all soiled feathers removed first to prevent their being mixed in with the clean ones. Care must be exercised in picking. In no way tear the skin as this would spoil the looks of the dressed bird and spoil its salability. Removal of the pin feathers and the fine down is another operation requiring extreme care. This is done by passing the goose first upper then lower part down over a dish containing a small quantity of burning alcohol.

In dressing the goose nothing is removed save the feathers. With feather and down disposed of the head is tucked under a wing. The wings are doubled backward and held in place by the legs which have also been doubled backward and tied in place. This gives the goose a very cheery appearance and makes it look more like a large bag of sugar done up in light manilla than a dressed fowl. It is at this point that the advantages of careful handling in feeding become apparent. If through fright or rough usage a goose has received a knock or a bruise this fact will become painfully apparent in a dark or black spot in the dressed bird. The dark spot will at once raise a question in the mind of the buyer and consequently spoil or interfere with the sale.

A feeder was asked, "Does the feed have any influence in the appearance of the dressed goose?" And the reply was the geese fed white corn are likely to have a lighter colored skin than those fed yellow corn. As the light color is what the market demands this is no doubt an item worth the feeders' consideration. Fred Albrecht.

Children Are Killed by Lightning

Lives lost, property destroyed, losses reaching millions are sustained—just because we do not use proper protection from fire losses. Some of these losses are partially made up by insurance, but insurance cannot prevent fires. Besides, what insurance could repay for the burning to death of your children!

American farmers, readers of this paper, prevention is in your own hands. You can safeguard yourself and your family, your barns and stock from fire dangers. Not only that, but you can save money at the same time—from one-fourth to one-half what you are now paying out for insurance premiums. That being so, what excuse can you offer if you fail to do it, and there should follow loss of life and property. Besides, such protection as we offer relieves your wife and children from the terror of fear every time there is a thunder storm. Perhaps you have that fear yourself.

Know this—three out of four fires in rural districts are caused by lightning. Read the proof.

We Can Guarantee to Protect You

from lightning. We have the proof, clearly demonstrating that D. & S. Lightning System will not only protect, but you can secure fire insurance at a saving of one-fourth to one-half present rates.

D. & S. System is Not Expensive

They are put up by our men trained and experienced in the work—not by men who are the lightning rod agent kind. Get a D. & S. System which lasts forever, costs you hardly any more than inferior

and split lightning rods. Write us to-day for the proof. All we ask is a fair, open, unbiased judgment. Don't prejudice us.

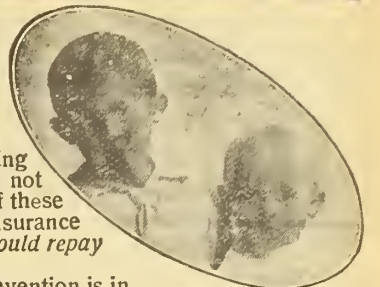
Prof. West Dodd, president of our company, is the only scientist since Franklin who has made a scientific and practical study of lightning. The D. & S. system is the result of his scientific discoveries.

We have several books on lightning and lightning protection which will give you facts and figures. A request will bring them. Destructive spring storms will soon be here. Find out now how costs you hardly any more than inferior

DODD & STRUTHERS.

417 Sixth Avenue,

Des Moines, Iowa.



THE PROOF

If you read but one paragraph of this advertisement, read this one:

Report of 111 fire insurance companies show 2960 fire losses in one year—2165 were caused by lightning—only 795 from all other causes combined. Think of it—3 to 1. That is what we would save you from.

Why hesitate one minute?

Your commonsense tells you to get the roofing made of Trinidad Lake asphalt. Nature gives it waterproofing qualities that man has never equaled.

Genasco Ready Roofing

is made of Trinidad Lake asphalt. There are no secret materials in it. There's wool-felt for foundation, and mineral surface (on some) for finish. The Trinidad Lake asphalt is the life and backbone. It prevents cracks and breaks; does away with leaks and repairs, and makes Genasco last longer than any other roofing.

Write for the Good Roof Guide Book, and find out more about Genasco; get samples too. Mineral or smooth surface. Look for the trade-mark at your dealer's, and insist on Genasco. A written guarantee—if you want it.

THE BARBER ASPHALT PAVING COMPANY

Largest producers of asphalt, and largest manufacturers of ready roofing in the world.

PHILADELPHIA

New York San Francisco Chicago

Cross-section, Genasco Stone-surface Ready Roofing



Gravel
Trinidad Lake Asphalt
Asphalt-saturated Wool Felt
Trinidad Lake Asphalt
Asphalt-saturated Wool Felt

THIS DEVICE WILL SAVE ONE-THIRD YOUR FUEL

On Any Gas, Gasoline, Kerosene or Distillate Engine

"The Hotter the Spark the Better the Combustion," is a well known principle of Gas Engineering. Batteries give out quickly. Spark coils cost up current, and thereby cause endless expense and trouble—just when needed the most. Poor ignition from batteries causes misfires, slow ignition or combustion and thereby increase your fuel expense by one-third to one-half. You can save this wasted fuel, get the maximum power, by installing

THE MOTSINGER AUTO-SPARKER

No Battery Needed to Start the Engine

Delivers a white-hot spark for a lifetime. This device is a simple, fool-proof dynamo. It will continuously deliver an intensely hot spark with from 3 to 15 volts behind it (adjustable to suit). We don't know how long the Auto-Sparker will last, for those put out ten years ago are still "delivering the juice"—few have required repairs or replacements. See your dealer or write direct for prices and money-saving details. Learn how to run your engine for one-half to one-third your present cost; also how to charge storage batteries for ignition and lights.

TO DEALERS—The demand from those operating internal combustion engines of all kinds is so constant and certain that you can safely stock the Auto-Sparker. We protect you against loss by GUARANTEEING THE SALE. Ask us about it.

MOTSINGER DEVICE MFG. CO., Box 162, Pendleton, Ind.



Attached to Stationary Gas Engine

10 CENTS A POUND FOR HOGS

Don't sell your hogs for 6 to 8 cents and buy poorly smoked meat from Hams Trust at 20 to 30 cents. Butcher your hogs, salt and smoke the meat yourself, sell the hams and bacon not needed for your use and make 2 or 4 times what you do now, besides having better meat. The extra profit will pay for what you use. No smokehouse necessary.

USE WRIGHT'S CONDENSED SMOKE

Gives the rich aroma and delicate flavor of hickory smoke to the meat, therefore secures highest prices. Keeps the meat sound and sweet indefinitely, and free from insects. Applied with a brush; twice over is sufficient; entirely absorbed; penetrates meat thoroughly. A 75-cent bottle smokes a barrel of meat. Guaranteed and sold under Pure Food Law, Serial No. 541. Beware of imitations; secure the original and genuine. Write for illustrated free book, "The New Way."

Wright's Smoke guaranteed and backed by our \$250,000 capital. Money back if you want it. 607 Broadway, E. H. WRIGHT CO., Ltd., KANSAS CITY, MO.

FREE SAMPLE BOTTLE

Ask your druggist for free sample bottle. If he cannot supply you, send 10 cents and names of five who smoke meat. We will send you, prepaid, sample bottle sufficient to smoke 10 lbs. of meat.



THE YOUNG FOLKS

A HAPPY PET.

We have a nice little dog. It is a little fox terrier and his name is Penny. We got him in Oshkosh. He is about six months old and so cunning. I have three cats and two kittens. Their names are Jessie, Nellie, Annie, Hans and Georgia Rose, which is a very dear little pussy and is nearly twelve years old. Hans has his foot off, but has a cheerful disposition. He seems to be always happy and does not mind it and is a good mouser. He gets nice Jersey milk every day. Penny is always at the plate with them to get his share. I go to Junto Junction school, which is a mile and a quarter away. We have two teachers and sixty scholars. We live on the Interurban line so I always have a chance to ride when it is too cold to walk. I am thirteen years old.

H. McMillen.

Has Cats for Pets.

I am a little girl eleven years old. I go to Sandridge school and there are forty-four pupils in school. I have white hair and blue eyes. We have quite a large house, we have five rooms and two halls upstairs and seven rooms and one hall downstairs. I have three sisters and one brother. My youngest brother is the baby and he is two years old. I study spelling, reading, arithmetic, language, physiology, history and geography in school. I like to read stories very much. We have four cats, one is clear white and we call it "Snowball," one is white with yellow and it is called "Flossie." We have one

that is eight and one-half years old. We call it "Tom," and a few weeks ago a black cat came here and we call it "Topsy." I like cats very well. I take music lessons every Thursday morning.

Lydia R. Ter Loun.

A Busy Day.

I was in a dialog at school. I had an accident and I knocked a lamp over, but no damage was done. I rode to town with my brother, then I went skating, but my skates would not stay on very well. I came back and went hunting, but I could not see any game, so I shot at a post and took my knife and cut out the lead and put it in the empty shell. I fooled my brother by letting him try to make it go, and finally told him about it. He did not like it very well. Then I shot at the ice and it glanced off. Then I went down to the barn and threw corn cobs. I then milked a cow and watered some calves, and then I went to the house and popped some popcorn.

Park Williams.

My Dog Taft.

My dog was given to me by a neighbor when he was a pup about two months old. As I thought Taft was a good man I named the dog after him. He seemed to be a very intelligent pup and I thought I would teach him some tricks. First, I taught him to carry mail from the mail box to mama, or one of us. Then I taught him to carry a pail full of cobs, coal or wood. When my sisters come home from their schools on Friday night he insists on bringing their suit cases in,

although they are heavy and almost touch the ground. Next I taught him to climb ladders, jump through hoops, shake hands and also taught him to say "please" which he does before I give him anything to eat. This he does by sitting on his hind legs and putting his front paws on my knees. I am trying now to teach him to spell his name. He is very cross to strangers and I am not afraid to stay at home alone when he is with me. He is lots of help to me when I do my chores. He rounds up the cows, sheep and the colts and knows where each one belongs. He seems to know when it is four o'clock, for he comes to meet me and carries my dinner pail home. I like to read the other children's letters very much.

Earle M. V. D. Capellen.

Building up Rapidly.

I have three brothers and two sisters. I am eleven years old. I am in the fifth grade and study reading, arithmetic, spelling, language, history and geography. I live five miles from a town in North Dakota. We have telephone and rural routes this way. Five years ago in this country there was no farming done. Then there was nothing but ranching, but now you find most of the land under cultivation. On some farms you find nice buildings and on some there is nothing but shacks. I know of one farm five miles from a station which was sold for \$8,200. We have seven work horses, one two-year-old colt, one yearling, three cows and three calves. We milk all three cows. We have five pigs and some chickens and turkeys.

Lucia Huettl.

Fun on Skees.

My brother and I have great fun going on skes. We had nice skating, but the ice has drifted over with snow now. We live on a farm, three miles from town. My father works sixty acres of land. I help my father in haying, harvesting and plowing and

my brother Leonard and I cultivate the corn. My father has fifteen head of cattle. He has three horses and their names are Fly, Nellie and Queen. Fly is twenty-four years old, Nellie, nine, Queen, six. Mother keeps about sixty chickens. She gets from two to eight eggs a day now. My brother Leonard and I have two ducks. We had about twenty last summer, but sold them in the fall. We have lightning rods on our houses.

Henry Gartland.

Lots of Winter Weather.

I am a boy, thirteen years of age, and five feet two inches tall. The schoolhouse is about two miles and a half away. I get along all right in school. I was always good, so I never got any scolding from my teacher. My teacher's name was Miss Petra Hamre. It was the first term she had taught school and she was very good to me. I had two sisters and one brother going to school. I was in the sixth grade and studied arithmetic, history, reading, geography, language, hygiene and spelling. We have three months school in the fall and three in the spring. School was out Tuesday, December 23d. We will have three months' vacation. There were fourteen pupils going to school. I have five brothers and five sisters. I am standing on skes mostly every day. We have some big coasting hills. Last Saturday night I was out for a sleigh ride. We have eight pigs which I feed sometimes. I do chores, feed the cows, horses and chickens. We have a colt and four working horses. I have to plow sometimes. We have a farm of 320 acres—160 acres of field and the rest in hay and pasture. We have no skating here now because we have so much snow. The ice is about a foot thick, but it is so rough and there is so much snow on it that we cannot skate. Some places froze when it snowed, so it does not hold all over. We can drive over it only in some places.

William Lien.

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will give you perfect satisfaction. It is the result of forty years' experience in the manufacture of ready roofing. It is made of the very best material. The body is pure wool felt. It contains no tar or other substance that will crack, run or peel. It is easily laid on steep or flat roofs, and over old shingles. It is water, wind and spark proof. It does not color or taint the rain water. It is absolutely guaranteed.

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SAW MILL

Agriculture in the Public Schools

By Verne O. Stewart

PRESIDENT ROOSEVELT has said, "No man ever really learned from books how to manage a governmental system. Books are adjuncts and the statesman who has carefully studied them is far more apt to do good work than if he had not, but if he has done nothing but study books he will be no statesman at all."

This applies equally as well to agricultural pursuits as to statesmanship, also to the average schoolma'am, who, being raised in the city or town, has a very limited knowledge of agriculture, gained mostly from books and editorials of city editors of farm papers, who seem to have acquired the bulk of their agricultural knowledge in a like manner.

For instance, some years ago there appeared in one of the leading farm journals published in Des Moines, an editorial advising farmers to plant catalpa or locust trees around the farms at suitable distances apart to be used as "living fence posts." After stating the various advantages to be derived from this plan it concluded by saying, "The main objection is that as the trees grow they will raise the wires higher so the stock would crawl under and that the wires would have to be lowered occasionally." A number of the subscribers living in this county, concluding that the editor knew less about practical farming than they did, stopped the paper. It is a common saying among farmers that to follow the instructions of these city editors of farm papers would soon bankrupt the richest farmer in the country. So how could you expect a teacher with no practical knowledge of farming to instruct farmers' boys and girls on a subject on which they could teach the teacher?

It seems that a great many city people are very solicitous for the welfare of their "country cousins" and even President Roosevelt saw fit to appoint a commission of city gentlemen to tour the country at public expense to investigate conditions and make suggestions as to how rural life might be made more profitable and pleasant.

What is the matter with agriculture in Iowa anyhow? In 1908 Iowa led all the states with 305,000,000 bushels of corn worth \$150,000,000; her oats, wheat and potatoes added \$63,000,000, her stock of all kinds, \$334,000,000, making a total of \$547,000,000, to say nothing of the many millions the hay, rye and barley crops, the eggs and poultry, the milk, cheese, butter, fruits and vegetables would add to the grand total.

Do these stupendous figures indicate that the poverty of the farmer is so appalling that we poor teachers should be compelled to rack our brains and drain our scanty purses to buy a library on theoretical farming or to take an expensive course of instruction at some agricultural college that we may be able to instruct these "embryo farmers" how these figures may be doubled? And if they should be doubled would the condition of the farmers be greatly improved thereby?

Remember it is only a few years since the Iowa State Register advised the farmers to purchase "corn-burning stoves" and burn corn instead of coal, as it was much cheaper.

Is not the time of the teacher fully taken up with the present curriculum, including twenty-five or thirty recitations each day? It seems to me that the addition of another branch of instruction would be like the proverbial "last straw" that broke the camel's back. It is well known that a number of our best teachers have been forced to resign their schools on account of failing health brought on by overwork in the schoolroom.

If agriculture must be taught in our public schools, probably it might be well to consider the plan submitted by Prof. Homer H. Seerley, president of the Iowa State Teachers' College at Cedar Falls, at the National Educational Association held in

Denver recently. Speaking of agricultural education he says:

All other education can be conducted in groups, but this must be personal and individual. All others are somewhat similar, but this must be adapted to each individual and calls for a slightly different solution.

Improvement in mechanical lines of education is comparatively easy because it deals with the populous and wealthy community and does not call for extravagant expenditure per capita, but agriculture must be taught in a sparsely-settled community and at great expense per capita. Nothing of large importance will be able to be shown in progress along these lines until large amounts of money are invested in both state and nation so that teachers can be trained and salaries sufficient for their support can be paid. Then agricultural education must depend on men teachers and not women teachers, and this situation will require one man teacher to every twenty or thirty country schools whose work will be supervisory and special and who will give constant attention to the industrial part of the instruction.

As there are about 200 rural schools in Polk county, Iowa, alone, it seems to me it would take at least a dozen or more of the most active and energetic of these highly-paid "special instructors" to get around semi-occasionally to each school, considering the condition of the country roads during most of the school year. Possibly the introduction of "flying machines" in the near future will obviate this difficulty.

It appears to me that in order to make personal and individual instruction effective it would be necessary to provide each school with a greenhouse covering an acre or more, equipped with a modern heating apparatus and a licensed engineer in order to successfully carry on agricultural operations during the months that the larger scholars (who would be mainly benefited thereby) attend school, as every one knows that during the months that farming operations can be successfully carried on outdoors the larger boys are at home receiving paternal instruction, which is probably best after all.

If agriculture is to be taught in the common schools why not other important trades and industries as well? There are only about twenty-five per cent of the people of the world who are engaged in agriculture. How about the other seventy-five per cent? Are they to be overlooked entirely? And would it not be economy before giving any child agricultural instruction, to have a competent phrenologist examine each little head to as-

certain if its agricultural bumps are sufficiently developed to warrant placing it in the favored twenty-five per cent, as this education is to be personal and individual, thus saving seventy-five per cent of the expense? And even then a good portion of this money might be wasted, as few follow in after life the vocation chosen for them by parents or teachers. For instance, out of 279 who have graduated from the agricultural department at Ames during the past ten years, less than half are on the farm.

At first thought the theoretical side of this question may seem plausible to some, but when the facts connected with its practical workings are considered, it fails to impress us favorably and we predict that when the thinking public comes to apply a few grains of good, common sense to this "fact" it will be about as popular and last about as long as did the now defunct idea of "Consolidation of Rural Schools," of which we heard so much a few years ago.

Our common schools are completely fulfilling their mission by turning over to higher institutions of learning the boys and girls grounded in the fundamentals of education, thus laying a firm foundation for future advancement in the various vocations of life.

It is unbusiness-like and unprofessional to sow grain as the separator cleaned it. There is much that a good fanning mill can get out, and it should, by all means, be gotten out.

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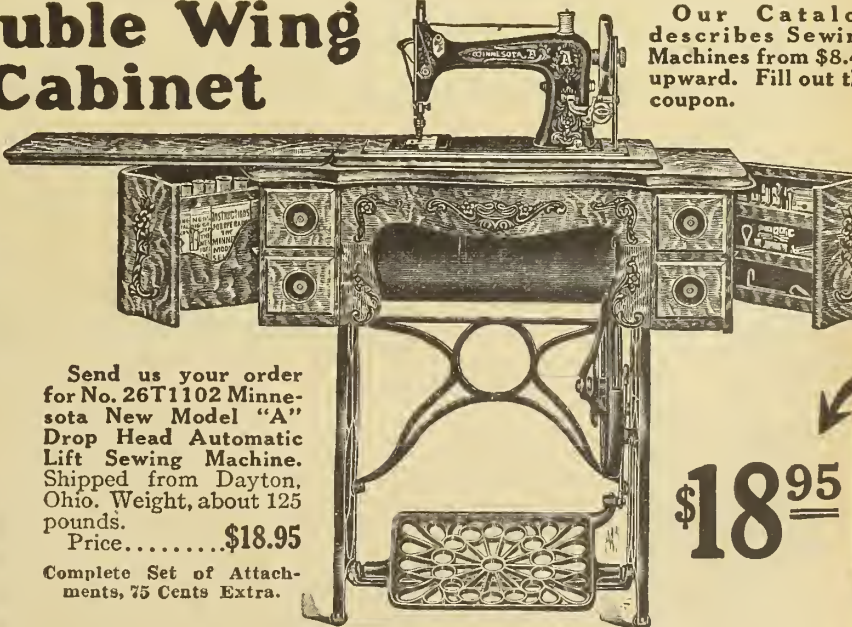
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NEWS OF THE SALE RING

NO MORE important sale has been held in the central West during the present sale season than the one that took place on the Limestone Valley Farm on March 1 and 2. It was the climax of thirty years' effort in breeding operations. An average of between \$900 and \$1,000 on Jacks is certainly something to attract notice, but that figure was reached in two instances by Monsees & Sons, of Smithton, Mo., and also by W. J. Finley, of Higginsville, Mo. Of course these prices were realized on a collection of jacks of unusual merit. Practically all the sales held since our report was made last week have resulted in the realization of satisfactory prices. Duroc Jersey hogs were knocked down for \$100 or better, time and again, though a Poland heads the list in the matter of price. This was at the sale of M. P. Hancher, of Rolfe, Iowa, a sow at that sale going at the neat figure of \$190. A splendid offering of Clydesdales was made by Lakeside Farm at Storm Lake, and an average of \$430 was realized on thirty-two head.

Briggs & Son Make \$53 Average.

Messrs. Geo. Briggs & Son, of Clay Center, Neb., sold on February 24th, forty-three head of Duroc bred gilts for an average of \$53. The sale was made up of the strongest lot of gilts that have gone through a sale this season. The top price was \$85, paid by Mr. Con McCarthy, of Henderson, Neb., for a daughter of Lincoln Wonder and Miss Narry. Mr. David Boesiger, of Cortland, Neb., was a strong bidder on the good ones and purchased three. Mr. Edgar Kissinger, of Fairfield, Neb., and Mr. F. M. Larkin were among the strong local buyers. Colonel Callahan cried the sale. Buyers paying \$35 or more are here listed: Wm. Warnock, Alexandria; J. J. Barnes, Columbus; Reese & Martin, Broken Bow; E. J. Brown, Osceola; Roy Jones; Geo. Schmal, Sutton; Geo. Lewis, Fairfield; John Zdychmec, Fairfield; Geo. P. Hoke, Scotia; J. S. Cooper, Kearney; Harry Wilcox, Fairfield; Wm. Lemkuil, Fairfield; Nate Downer, Fairfield; Chas. Mitchell, Clay Center; E. R. Hopkins, Atlanta; Sam Smith, Atkinson; H. Stoltz, Woodbine, Iowa; N. Downer, Fairfield, Iowa.

Report of Ruebel Bros.' Poland China Sale.

Messrs. Ruebel Bros. held their annual Poland China bred sow sale on their farm, one mile east of Marathon, Thursday, February 24th, selling fifty-six head for \$3,850, or an average of \$68.75 per head. They also sold thirteen last fall September and October pigs for \$341. This is the class of hogs that Messrs. Ruebel Bros. raise. They have been in the business for a good many years, consequently they know what a good hog is and also how to raise a good hog, and they also know that it takes size and bone, with quality, to supply the general demand of the present day, and there are no breeders in the state of Iowa who have any larger or better hogs than Messrs. Ruebel Bros. They have sold on their farm this year something like \$6,000 worth of Poland China hogs and it was because they had the big, good kind, and their demand was not only at home, but abroad also. Messrs. Ruebel Bros. treated their guests, who were many, to a nice dinner in their sale pavilion on the farm, and after everyone had supplied his appetite with the good things to eat, Mr. W. D. Duncan started the sale, with his assistants, and made it one of the best sales held among Poland China breeders in the state of Iowa. Messrs. Ruebel Bros. expressed themselves well pleased in every respect with the outcome of the sale. Below is a list of buyers: J. J. Pendergast, Garfield, Ill.; J. D. Bayenstos, Brooklyn; C. L. Santman, Dysart; J. G. Gallman, Van Horne; H. Lewin, Hartford, S. D.; Thos. Welch, Marathon; J. M. Perry, Alvord; Wm. McArthur, Mason City; J. V. Lingenfelter, Altoona; R. Lanning, Melbourne; Fred Tange-man, Marcus; Geo. Pullman, Marathon; J. W. Mattee, London Mills, Ill.; Wm. Huxtable & Son, Newell; S. C. Agler, Marathon; H. G. McMillan & Sons, Rock Rapids; J. O. Tripp, Urbana, Ohio; H. White, Trivoli, Ill.; Robt. Schug, Cole-ridge, Neb.; C. C. Polly, Whiting; E. S. Barker, Doon; McNea & Grey, Corwith; J. P. Robertson, Mediapolis; Wiard Aukes, German Valley, Ill.; C. C. Mason, Newman Grove, Neb.; J. W. Klein-hend, Chicasaw, Ohio; F. G. Paul, Marshalltown; J. F. Delong, Bristow; Fitzgerald Bros., Varina; W. J. Marque, Le Mars; G. Bloomendaal, Alton; Leland Stock Farm, Hoopston, Ill.; D. E. Agler & Son, Marshalltown; J. E. Adams, Webster City; J. C. Bailey, Marshalltown; B. Watkie, Doon; W. P. Gilvay, Esmond, Ill.; Al Hill, Eldora, Iowa; N. H. Majeres, Remsen; J. J. Long, Richmond, Ky.

The O. N. Remington Sale.

Mr. O. N. Remington, of Tekamah, Neb., held a most successful sale of big Poland Chinas the latter part of February, disposing of forty-four head at an average of \$68 per head. The \$150



A POPULAR TYPE BELGIAN.

One of the handsomest engravings that has appeared in the columns of this paper is that of the splendid imported Belgian stallion, Robert II. De Rum 3535, owned by Mr. Charles Irvine, of Ankeny, Iowa, whose advertisement will be found on page 59. This stallion could not be described better, or more effectively, than the picture does it. He is a mammoth fellow of splendid proportions, attractive symmetry and with style enough for anybody. He was just good enough at the Iowa State Fair of 1909 to capture first place in class and stand as reserve champion. Mr. Irvine has on his farm and for sale a considerable number of imported Belgian mares. They are all of high class, having without exception been prize winners at the Iowa State Fair. They are good, practical horses which, in addition to their show-yard merits, are also broken to work any place where the farmer may require a horse. Some of these mares have been bred to Robert II. De Rum, above illustrated. Mr. Irvine will be glad to show these horses to visitors or make prompt reply to any inquiries concerning them. He does not conduct an expensive establishment and will, therefore, be able to compete with any importer with reference to prices. Go and see him or write for full particulars, addressing Mr. Charles Irvine, Ankeny, Iowa.

mark was reached and this sum was paid for Lady Wonder 6th by Mr. Jym-an Peck, of Ft. Calhoun, Neb. Indeed, a daughter of this sow exceeded this figure \$35 and went to Mr. Julius Stein, of Bloomfield, Neb., at \$185. Among the buyers were: E. Akin, Tekamah; F. A. Russell, Ponca; M. T. Elliott, Lynch; Peter Mouw, Orange City, Iowa; H. O. Williamson, Herman; E. T. Renick, Wayne; W. M. Mather, O'Neill; Thos. Patrick, Herman; Wm. Ray & Son, Defiance, Iowa; Herry Ted-rick, Winside; Nels C. Jensen, Exira, Iowa; E. D. Laudham, Wausa; Elmer Barton, Blair; J. A. Russell, Ponca; D. C. Lonergan, Florence; Wm. Barton, Blair; S. S. Wells, Minden.

Report of Hancher's Poland Chinas.

Mr. M. P. Hancher, of Rolfe, Iowa, held his annual bred sow sale on his farm, one mile northwest of Rolfe, Iowa, on Friday, February 25th. It was one of the most successful sales of the season. He advertised them as "the big four"—big type, big bone, big litters and big quality—and he surely had the goods, and without doubt the best strain of spring gilts going through the ring this year of the Poland China type. Mr. Hancher is certainly to be commended for being able to put up such a magnificent offering. He put up fifty-four head and they brought him the nice little sum of \$4,179, or \$77.40 per head, and this is what we would call intense hog raising. He had buyers and bids from Iowa and all surrounding states, and Mr. J. G. Gorman, of Van Horn, Iowa, secured the highest-priced gilt in the sale, being No. 7 in the catalog, at \$190, she being one of the litter of four that sold in this sale from the produce of one sow that brought Mr. Hancher the neat sum of \$652.50. Does it pay to raise hogs in Iowa from good seed? Mr. W. B. Duncan conducted this sale in a very satisfactory manner, with Ira Cunningham and others as assistants. Below we give a list of buyers: R. A. Jeffries & Sons, Rock Rapids; Farver Bros., Ocheyedan; J. Dowley, Carter City; A. Vanderploeg, Carnavon; J. Murphy, Livermore; D. R. Riley & Son; T. E. Cole, Elfield; D. A. Jacobson, Gilbert; P. Iverson, Watson, Minn.; J. M. Perry,

win; C. E. Watson, Newman Grove, Neb.; J. J. Pendergast, Garfield; C. Sargent, Rolfe; G. M. Vader, Churdan; W. A. Bissonett, Charles City; H. O. Fields, Winchester, Ind.; A. Vanderploeg, Pa-nora.

Atwood's Dispersion of Angus.

Mr. L. L. Atwood, of Langdon, Iowa, held his dispersion sale on his farm Wednesday, February 23d, and as usual he encountered very bad weather for this sale. There was a snow blockade the day previous and railroad trains were blocked in nearly every direction, and it prevented outside buyers and breeders from attending the sale; consequently the crowd was small, although he dispersed the entire offering, which was thirty-six head, and made the average of \$93.10, which was nowhere near their value, and of course Mr. Atwood could not be very well pleased. The buyers were: Wm. Mencer, Spencer; Stanley Pierce, Preston, Ill.; J. Griffin & Son, Manson; Len H. Lamar, Storm Lake; W. Mills, Spencer; F. Donaldson, Spencer.

Report of Lamar's Clydesdales.

This sale was held on the Lakeside Farm, adjoining the town on Storm Lake, on Wednesday, March 2d, with Col. McGuire as auctioneer. The day was fine and Mr. Lamar was greeted with a fine audience from several different states, as well as home support. The offering consisted of four filly weanlings, two stallions—one a yearling and one a three-year-old—and twenty-six mares, and it was a fine offering of the Clydesdale horse kind and sold for fairly good prices. The thirty-two head brought \$13,765, or a \$430 average. The twenty-six mares averaged \$457. The three-year-old stallion brought \$575 and he was a good one and very cheap at the price. Mr. Lamar treated his guests to a fine dinner, conveyed them to and from the farm in good style and sold his horses strictly on the square. Mr. Debut, from Marsh, Va., was among the conspicuous buyers and bought four head to take back to the old state. Mr. C. M. Stichler, of Ord, Neb., was another conspicuous buyer. Below is a list of buyers: Knute Lewis, Lake Preston, S. D.; C. E. Overstrud, Marshall, Minn.; Wm. Spangler, Smithfield; Geo. Krumwiede, Triumph, Minn.; C. E. McClue, Lanesboro; Chas. Cuthbert, Sioux Rapids; W. H. Jones & Son, Quimby; H. L. Cantine, Quimby; Harry Snyder, Sibley; A. W. Hillman, Dana; Jas. Wallace, Clincon; A. W. Buckingham, Alta; R. M. Pomeroy, Shelby; W. W. Weston, Audubon; Jno. Wallace, Fenton.

Report of J. H. Stewart's Chester Whites.

Mr. Stewart held his annual Chester White bred sow sale on his farm, six miles south of Dickens and one and one-half miles northeast of Gillette's Grove, February 24th, selling thirty-eight head of spring gilts and making the average of \$47 even. This was a very spirited, good sale from start to finish, and well it might be, for it was one of the best offerings of Chester White spring gilts that was ever put up by any one farmer in the state of Iowa—every one a good one, and Mr. Stewart was well satisfied with the outcome. Mr. Stewart and his wife conveyed the visitors from both Dickens and Gillette's Grove to the farm, and served them with a bountiful dinner at noon. There was plenty of extra good coffee and the finest of baked pork and beans, with other delicacies, for dinner, and after everyone had supplied his wants with the good things to eat Col. W. R. Ritchie mounted the block and commenced his usual oration,

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WRITE us at once to get all the facts about the wonderful money-saving and money-making advantages of letting hogs, sheep and chickens drink pure water whenever they please. Hundreds of tests prove that hogs do not get all the water they need—unless it is placed before them in a most convenient way. Pure water helps them assimilate the feed, so they fatten quick at less expense. Placing it before them so they can drink as much and as often as they wish, means healthy hogs and big profits. Let us send you a

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quoting most of the statistics that are issued from the government report on the meat question of today, and then started the sale with vim, selling the entire offering of thirty-eight head in two hours and fifteen minutes. A list of buyers follows: M. Mills, Gillette's Grove; Nels Olson, Ruthven; R. S. More, Gillette's Grove; W. J. Frazee, Sutherland; D. J. Carson, Gillette's Grove; Vandermark, Early; C. M. Carter, Dickens; S. Fred, Dickens; Aug. Newburg, Wesley; S. P. Skilling, Marathon; W. A. Williams, Gillette's Grove; Mr. Peterson, Sac City; J. B. Carson, Gillette's Grove; Aug. Nelson, Aurelia; I. N. Reed, Webb; G. Holt, Clear Lake; F. W. LaDux, Spirit Lake; P. Condie, Carnes; C. O. Nelson, Albert City.

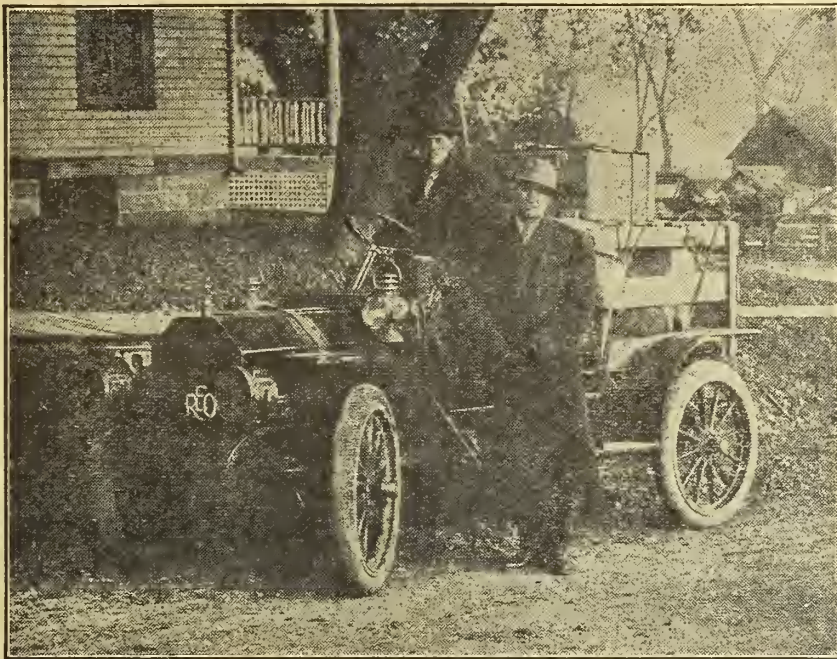
Limestone Valley Farm's Thirty-third Annual Sale Breaks All Records.

When the curtain was rung down on the closing scenes of the thirty-third annual sale of Mammoth jacks and jennets held at the world's famous Limestone Valley Farm, on March 1st and 2d, all world's records for high sales, high averages and grand total in dollars and cents taken in at a jack and jennet sale belonged to Messrs. L. M. Monsees & Sons, of Smithton, Mo. The senior Mr. Monsees may now look with satisfaction to the record; he may well feel proud of the great work he has accomplished, even though it has taken thirty years of hard toil to build the Limestone Valley Farm and stud to its present high standard of excellence. The top round of the ladder is now filled with the grand total of \$67,750, and everyone present at the sale was glad to see this mark reached. The offering exceeded the expectations of the visitors, this being particularly true of the sons and daughters of the two champion jacks, Limestone Mammoth and Orphan Boy. The top of the sale was made on the opening with Baritone Mammoth, a son of Orphan Boy out of a Limestone Mammoth dam, he selling for \$3,030 to Mr. James Houchin, of Jefferson, City, Mo. Messrs. Kemp & Twinter, of Pilot Grove, Mo., and W. B. Files, of La Mont, Mo., were the runners up. This set a new record on high-selling jacks, last year's top being \$2,825. The next world's record was broken when the great young two-year-old, High Ball, was knocked down to Messrs. Barnes & Cain, of Muskogee, Okla., at \$1,605. This topped the record of \$1,600 made on February 28th in the Finley sale. Messrs. Barnes & Cain secured a great young jack and later took a number of very fine jennets that will make a valuable foundation for a stud. All previous records on yearlings were broken when Mr. W. F. Schade, of Jackson, Mo., was forced by Mr. G. C. Roan, of La Plata, Mo., to pay \$1,260 for the yearling, Superior Boy, by Orphan Boy. The jennets were sold on the afternoon of the second day and more interest was manifest in this part of the sale than in the jack offering. This probably was so on account of the opportunities offered to get the blood of both champions. The top on jennets was \$1,375, paid by Mr. I. S. Tevis, of Shelby City, Ky., for Lot 1, a Limestone Mammoth jennet in foal to Orphan Boy. This established another record and Mr. F. S. Spurck, of Nelson, Neb., who has helped make records at Limestone Valley Farm for two seasons, was the runner up. There has never been so great a lot of jennets offered in any sale and that they were appreciated as being great jennets is best shown by the fact that the best jack breeders of America were present to buy them. A study of the list of buyers and the summary tells the story of the sale. Buyers and bidders were present from fourteen or fifteen states. Forty mule teams were brought out to carry the throngs from the special train to the farm where Messrs. Monsees' hospitality soon made the immense crowd feel that everything was theirs for the asking. Master Kalo Monsees made the hit of the two days' sales by rendering the verses, "My Pa" and "Limestone Valley Jacks." Colonel Jones, secretary of the jack registry, was present and his timely remarks were appreciated. Colonels Harriman, Sparks and Snyder did the block work and were ably assisted in the ring by Colonels Hieronymus Bros., Logston, Bowman, Stoller and Mahoney. Forty-three jacks sold for \$39,160, average \$910.69; fifty-two jennets sold for \$22,305, average \$428.95; twenty-four horses sold for \$6,285, average \$262.71; ninety-five jacks and jennets sold for \$61,465, average \$647; 119 head sold for \$67,750, average \$569.32. The buyers follow: J. C. Simpson, Eufaula, Okla.; J. W. Thompson, Terra Haute, Ind.; S. G. Sears, Sargent, Neb.; C. Hayden, Choteau, Okla.; R. T. Cook, Eagleville, Colo.; J. C. Walwood, Holland, Neb.; E. E. Swink, Farmington; W. H. Grand, Lancaster, Kan.; C. M. Moore, Fortuna; Wm. Martin, Latham, Kan.; J. E. Ricklefs, Troy, Kan.; W. S. Sneed, Sedalia; A. H. Johnson, Sisco, Tex.; C. A. Davis, Roseville, Ill.; J. C. Higgins, Hustonia; Wm. E. Files, Lamont; Wm. Mort, Latham, Kan.; R. F. Hope, Wautauga, Va.; Peter Renbuer, Boxholm, Iowa; J. W. Marley, Eldorado, Kan.; R. L. Voutrebra, Chetopo, Kan.; J. E. Prentice, Hebron, Neb.; E. H. Hawkins, Salem; Elmer Estill, Carrier, Okla.; M. P. Monsees, Smithton; H. C. Warnke, Stover; Cort Stewart, Prohibition; J. T. McClure, McClure, Ill.; D. H. Cottenberg, Medford, Okla.; Barney Lott, Goltry, Okla.; A. H. Carter, Dexter; S. J. McKee, Stuart, Iowa; Frank Spurek, Nelson, Neb.; Weldon Ragsdale, Shelby; Henry Boling, Lentner; Moore Bros., Bunceton; E. J. Hughes, Clayton, Ill.; J. B. Jewett, Platte City; J. W. Stuckey, Leavenworth, Kan.; G. E. Spears, Hughesville; A. C. Quisenberry, Lincoln, Ill.; W. W. Crauth, Dallas, Tex.;

W. Helsey, Ionia; J. F. Clayton, Glenarm, Ill.; August Weide, Yates Center, Kan.; G. W. Payton, Platte City; Ernest Lesh, Mt. Ida, Kan.; N. W. Wheeler, Cashion, Okla.; S. P. Huff, Lamont; S. T. Stone, Glenstead; W. E. Files, Lamont; Fred Schrader, Mora; Azzo Potter, Marshall; H. M. Davis, Richmond; Eugene Bartle, Sedalia; R. L. Munson, Wetmore, Kan.; J. G. Callison, Windsor; W. P. Hayes, Bloomfield, Ky.; W. G. James, Stark, Kan.; Tom Maddox; W. H. Brown, Clarksville; E. H. Hawkins, Salem; C. E. Lamm, Sedalia.

Finley's Fourth Annual Sale of Jacks.

The fourth annual sale of jacks and jennets made by Mr. W. J. Finley, of Higginsville, Mo., on February 28th, was the most successful sale this rising young breeder of Mammoth jacks



THE REO CONVERTIBLE FARM CAR.

The growing popularity of the automobile on the farm is due to the many opportunities which it affords to save time, as well as to give pleasure. The illustration given shows a practical use to which the Reo is put by an Iowa farmer, Mr. Theodore Buchneau, of Brooklyn, Iowa. The picture was taken just as Mr. Buchneau was returning from a twenty-eight mile trip with his two-cylinder Reo. His load of hogs weighed over 700 pounds. The Reo has proven its quality by six years of the roughest usage. It has few competitors in snow, rain, mud, good roads, bad roads, hills or level. Readers of The Homestead who want to buy low-priced cars of quality should write to R. M. Owen & Co., general sales agents for the Reo Motor Car Company, Lansing, Mich. It is advertised on page 18.

has made. Four higher selling jacks passed through the ring than at any preceding sale. The top was \$1,625, paid by Mr. E. S. Warren, of Glenwood, Iowa, for Lot 1, Moreland King, a fine six-year-old jack. The next highest price was \$1,600, paid by Messrs. Krotter Bros., of Palisade, Neb., for Lot 18, an October two-year-old jack by Mr. Finley's great stud jack, Dr. McCord. This was the record on two-year-old jacks selling at public auction. The sixteen aged jacks sold for \$15,630, an average of \$976.40. A general average of \$656.33 was made on everything sold, excepting one stallion, which was sold after the jack sale, making the total of the sale \$20,195. Bidders were present from Iowa, Nebraska, Kansas, Oklahoma, Texas, Kentucky and Missouri, and by far the greatest crowd ever assembled at one of Mr. Finley's sales was present. Colonels Harriman and Sparks, the noted jack salesmen of America, officiated on the block and were assisted by able talent in the ring. Following is a list of the buyers: B. N. Cottenberg, Medford, Okla.; J. H. Denning, Appleton City; W. C. Simpson, Attica, Kan.; W. B. Emison, Wellington; A. H. Johnson, Sisco, Texas; F. D. Hastings, Fairfield, Neb.; D. B. Kirby, Grain Valley; C. A. Bateman, Havensville, Kan.; J. Kenworthy, Pisgah; Alexander Eckles, Sibley; Emmet Summers, Alma; Barton Bros., Odessa; J. E. Callaway, Lebanon, Kan.; E. H. Downing & Son, Attica, Kan.; Ed. Bowen, Lawson; L. W. Teaman, Aulville; S. R. Smoots, Mayview; J. J. Elders, Palisade, Neb.; A. Felder, Clarksburg; Clark Steward, Prohibition; M. V. Dillingham, Blue Springs; J. A. Barton, Odessa; J. S. Vickers, Mayview.

Van Pattens Make \$52.65 Average.

Messrs. G. Van Patten & Son, of Sutton, Neb., sold thirty-six head of bred sows and gilts on the 23d of February for an average of \$52.66. The top price paid was \$100, paid by Mr. A. E. Swanson, of St. Edwards, Neb., for Lot 1, a daughter of Tom Davis. Messrs. A. Lentz & Son, of Pierson, Iowa, purchased the good breeding boar, Echo Top King, previous to the sale for \$300. They were also good bidders throughout the sale. Colonel Callahan did the selling. The list of buyers follows: R. R. Vance, Hastings; Geo. Schmal, Sutton; Geo. Nuss, Sutton; G. W. Larson, Geneva; Wm. Moderow, Beemer; Wirt A. Cottingham, Tripoli, Ill.; Aug. Norall, Loomis; W. M. Putman & Sons, Tecumseh; Frank Alldritt, Friend; Oscar Solberg, Grafton; Albert Nelson, Sutton; J. A. Schinzel, Grafton; J. C. Olinger, Sutton; F. C. Owens, Memphis; Geo. Buskirk, Pender; Clarence Wallace, Wisner; J. S. Cooper, Kearney; H. H. Koenig, Dewitt; Geo. Hammond, Manhattan, Kan.; C. S. Newton, Weep-

ing Water; J. D. Pritchard, Sutton; F. C. Buchelm, Lecompton, Kan.; E. J. Brown; Fred Zimbleman, Sutton; G. F. Rentzel, Sutton; Roy Matthews, Pauline.

McCarthy's Durocs Sell Well.

Mr. Con McCarthy, of Henderson, Neb., sold thirty-five head of Durocs on Friday, February 25th, for an average of \$48 per head. Mr. McCarthy is half owner, together with Mr. Briggs, of the great sire, Lincoln Wonder, and Mc's Improver. The top price paid was \$125 by Messrs. Townsely Bros., of Giltner, Neb., for Lot 1, Sunshine, an Improver II, sow out of Garnett. Mr. McCarthy's offering were in splendid breeding condition and will no doubt prove valuable as brood sows in the purchasers' hands. Colonel Callahan did the selling. The

a few men who have only to name their price and they can get it and will earn it. There are also a few who do not think of anything farther than to get good wages and will shirk or leave when hard work is about to begin. These are dear at any price.

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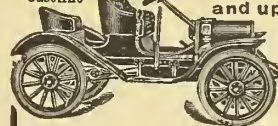
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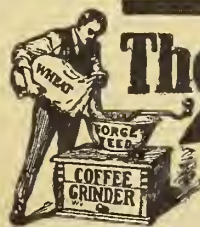
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Farmers who have bought them say that they pay for themselves in less than a month. Every farmer needs a 6x12 Slickerine waterproof wagon cover. They only cost \$4.40. Write today. Peoria Tent & Awning Co., 119 Main Street, Peoria, Illinois



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One seed at a time. Steady and even flow of seed means accuracy, not force. FETZER (Patent) Grain Feed is different and better than others. Sows evenly and steadily. Does not bunch or injure seed.

Shows an imitation of FETZER Feed
This Breaks force feed on many other Grain Drills; is bound to crush, crack or injure the seed. These so-called force feeds bunch the seed in sowing.

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SEEDERS
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For Tobacco, Cabbage, Tomato and other Vegetable plants
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The Difference Between FETZER Drills And All Other Grain Drills

You might just as well run your wheat and other seed through a coffee grinder as through some of the (so-called) force feeds of many Grain Drills to-day.

Our Booklet (free) shows the famous FETZER Feed—one seed at a time—no crowding, crushing, breaking or injuring of any kind of grain. If you didn't see our exhibit at the State Fair, we want you to get our book about the FETZER Grain and Fertilizer Drills—1st prize winners in England and Germany as well as in America for the past five years. We will also give you a

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MERIT IN CERTAIN ABERDEEN ANGUS FAMILIES.

To the Editor of The Homestead:

I was very much interested in the article which appeared recently in your paper entitled, "Merit in All Breeds," by R. Wilkinson, of Polk county, Iowa. Angus breeders will make no objection to what Mr. Wilkinson says as to the merit of the Aberdeen Angus carload lots at the last International, because in all



C. J. MARTIN.

awards and decisions there is ground for an honest difference of opinion. However, Mr. Wilkinson is the second man to attempt, over his own signature, to justify the judge's decision which gave the grand championship prize for the carload lots to the Short-horns. I am sure, therefore, that Mr. Imboden will not feel so lonesome now when he finds that his views harmonize with such an excellent and experienced judge as Mr. Wilkinson.

As to whether or not the Angus breed of cattle is suffering in the hands of those who breed them, I cannot concur in Mr. Wilkinson's dire forebodings. I believe that after Mr. Wilkinson has a few more years' experience in steer feeding operations, he will come to the same conclusion that nearly all breeders of pure-bred stock have arrived at, namely, that the feeding and handling of steers is an entirely different proposition from handling a herd of pure-bred breeding cattle.

The breeding and developing of a pure-bred herd of cattle in anything like a high degree requires all of a man's best thoughts and all his energies, and unless a man will give the matter that care that the business deserves, he will soon become sore and dissatisfied and in turn he is apt to show ill feeling toward those who have made a success of handling his particular breed. A celebrated artist was once asked what he mixed his colors with, and his terse reply, "With brains," applies with equal force in the business of raising pure-bred cattle.

Coming now to the matter of families, one would infer from what Mr. Wilkinson says that the various families that have been established in the Angus breed are nothing more nor less than the fads of some prominent breeders, and that in reality one pure-bred Angus is as good as another. If this is true why will men pay more for one animal than they will for another? There must be some reason for this. To my way of thinking there is a reason, because you will find a higher development of animal form in animals carrying certain blood lines than you will in others. This is because successful breeders have for generations been breeding animals of superior merit within given families until at last a type has been produced that is well-nigh perfection. It is a mistake to say that pedigrees are fashionable, because, as a matter of fact, it is the animal itself that is fashionable, but its merit is in the main due to its blood lines. I do not believe that successful Angus breeders in this country are sacrificing individuality in order to propagate pedigree. Mr. Wilkinson apparently believes that our plain-bred families that have been bred in every con-

ceivable way are just as good as the so-called fashionable families, but in order to show that such is not the case, I would like to point out to him that three-fourths of all the prize winners at our leading shows during late years are representatives of the sensibly popular families.

Angus breeders would very much like to see Mr. Wilkinson or any other breeder who holds his views fit up a show herd that is bred along the line he advocates, and enter a contest against the fashionably-bred families. If it can be demonstrated that the "plain" cattle are just as good in the show ring as the others, then we will be convinced, but not until then. I have grown tired of hearing certain individuals stand around the show ring and say that "they have just as good or better cattle at home" and I, for one, would like to see some of those fellows get into the harness and show their cattle. I would like to see some of those breeders who complain so much about the "pedigreed scrub," in which they refer to the highly-bred Angus, bring a herd of cattle out this fall to the Iowa State Fair under the one condition, that none of these for six generations back shall contain a drop of Blackbird, Erica or Pride of Aberdeen blood. This will demonstrate where we are quicker than anything else, and it is a lesson that

ought to be taught in the near future for the benefit of the public in general and for Aberdeen Angus breeders in particular.

The families that I am breeding in my herd are the result of close culling and showing at the great fairs in this country. I have retained in my herd only those families whose members were successful in the show ring and have won for me nine-tenths of all the prizes that I have won in a two-year campaign against all comers. I claim that cattle that can win like that under our best judges are the best type of cattle. I have discarded all families that have not made good in the show ring, and if Mr. Wilkinson and a few breeders wish to go backward and persist in breeding cattle that the best and most successful breeders in this country have discarded from their herds, after proving that they were not as good as some of the other families, that is their privilege, but they should not seek to place their troubles on the shoulders of the breeder who is "mixing some brains" with his cattle breeding operations.

C. J. Martin.

Greene county, Iowa.

How long will an egg keep in cold storage? An exchange says until it is sold to the customer.

Make Your Own Rope



The handiest little machine ever invented for farmer or stockman. Make your own rope from binder twine at two cents per halter rope or cow tie. Stronger than factory-made rope. Always ready and can be used at any time. You can make a

halter rope or cow tie in three minutes. Any size or length. Send \$1.50 for a machine. Weight only four pounds. Agents Wanted.

E. O. Berg Mfg. Co., Madison, Minnesota.

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GOOD WATCHMAKERS IN DEMAND. You can learn by our modern and original system of instruction on the Watchmaker's trade at home as good or better than in a shop. Earn money while learning and get at \$20 to \$35 a week job at completion.

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Kills Prairie Dogs and Gophers of all kinds. Endorsed by State Experimental Stations. 1400 tablets prepaid for \$1.25. Warranted. Ratidide Tablets, 25c. Ask druggist or send direct. Booklet Free. F. D. Chemical Co., Ft. Dodge, Ia.

Roosevelt's Great African Hunt Millions will be sold. Experience unnecessary. Big money quick. Outfit free. Star Pub. Co., 213 Madison St., Chicago.

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How the Farmer Controls the Cost of Living

THE cost of living depends on the volume and cost of production. The farmer can determine only partially the amount nature will permit her soil to produce, but he can regulate the cost of his crop by the machines he uses in tilling and harvesting.

The markets of the world are now watching for the results of the grain harvest of the farmers of America. Prepare properly against delays and waste and you will reap rich reward.

The responsibility for wasted grain and profits rests with you.

Choose your harvesting equipment—make your selection before the rush comes—take no chances—avoid experiments either in machines or binder twine.

From experience hundreds of thousands of farmers endorse the adaptability of the I H C line of harvesting machines.

Champion McCormick Osborne Deering Milwaukee Plano

Hundreds of thousands of farmers, hard-headed business men, with the same problems that confront you, have had their problems solved by some one of these machines. They didn't buy because they were prejudiced in their favor—they bought because they were convinced that these machines represented the highest standard of excellence in harvesting-machine construction, because these machines met their requirements, because they thought they were getting the greatest return on their investment.

The experimental period has passed, and efficiency, durability, simplicity, dependability and absolutely interchangeable parts are now at your order. Improvements in time and labor-saving features, finer materials, more skilled and painstaking workmanship are now strictly car-

ried out in the manufacture of these six lines of machines, so that all element of risk on your part is eliminated.

With any machine in the I H C line you are safe—for smooth, rapid, uninterrupted, perfect work at harvest time.

Materials, workmanship and quickly available interchangeable I H C parts are backed by the most responsible and trustworthy guarantee in the farm-machine world today. Such perfection would not be possible if the manufacturer did not have available ore mines, steel mills, timber lands and saw mills so as to make sure of the raw materials, and if the buying power and large output did not insure the first choice of raw materials from all other sources—and the ability to employ the right men to work up these materials, and to furnish these men with the most perfect facilities in the world—all this is of equal importance to you. It is these resources, insuring the highest degree of efficiency in every machine turned out, that means the lessening of your responsibility at harvest time, the elimination of most all the risk, the freedom from anxiety and worry and discouragement. Profit by the experience of hundreds of thousands of others who reap all their harvests and all the profit with one of the six leading machines. See the International dealer at once. Take your choice. The quality is the same in all—the best possible. The lines include grain and corn harvesting machines, haying machines and tools.

From the I H C dealer you can get repairs that fit when repairs are needed. Repairs having the I H C standard of excellence can be secured at almost every cross roads or village. This availability is not only a great convenience, but also saves valuable time, which means money to the busy farmer in case of accident in the harvest field.

Don't experiment with binder twine, either. Get one of the seven perfectly dependable brands of twine and be sure. Choose Champion, McCormick, Osborne, Deering, Milwaukee, Plano or International in Sisal, Standard, Manila and Pure Manila brands.

If it is not convenient to see an International dealer, write for full information and the catalogue you want.

INTERNATIONAL HARVESTER COMPANY OF AMERICA CHICAGO U S A
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THE HIGH-PRICE PROBLEM.

Failure of the farmers to keep up the production of cereals as fast as the growth in population was given as the reason for the prevailing high prices of food products by E. Pfarrius, a grain exporter of New York, in an address at the closing session of the council of North American grain exchanges in Chicago. "There hardly seems to be any doubt in the minds of our grain and provisions merchants that the high cost of living cannot be reduced by politicians," said Mr. Pfarrius, "although legislators may find means to prevent corners and pernicious combinations. Nor can the loud voices of suffragettes put down the price of beef when the last government figures show eight million less breeding cattle in last January than during the same month a year ago."

Experts at the Kansas Agricultural College agree that it is better to burn the bunch grass now than to boil the chinch bugs all summer.

Polled Hereford Bulls.

Mr. W. H. Campbell, of Grand River, Iowa, has for sale a couple of two-year-old Double Standard Polled Hereford bulls. See his advertisement on page 55 and write for additional particulars.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago, Union Stock Yards, March 5.—Thus far this year there has been no appreciable decrease in receipts of cattle at the leading live stock markets as compared with one year ago. However, a falling off is anticipated in the spring months. This conclusion is borne out by the reports received from Clay, Robinson & Co.'s nine houses. Barring Chicago and East Buffalo, the number of cattle on feed is anywhere from 25 to 50 per cent below one year ago. Kansas City and Denver report a decrease of around 50 per cent. Also our latest advices are to the effect that fully 50 per cent fewer cattle are on feed in Texas and Oklahoma than a year ago.

Below will be found the reports received from Clay, Robinson & Co.'s nine houses:

Chicago—Latest reports indicate there are about the same number of cattle on feed in the territory adjacent to this market as one year ago.

Kansas City—Roughly speaking, we should say there are about 50 per cent of the cattle in the feed lots adjacent to this market that there were a year ago.

South Omaha—While we cannot give the approximate number of cattle in the feed lots adjacent to this market, in our judgment the supply is from 25 to 35 per cent short of last year.

East St. Louis—We do not believe there are over 25 to 40 per cent of cattle on feed in the territory tributary to this market that there was a year ago.

South St. Joseph—In our opinion there are about 60 per cent of cattle on feed now as compared with a year ago.

Sioux City—According to the very best information we can get, there are not over 75 per cent of the cattle on feed this year that there were last year. We believe that is putting it high, for possibly 65 per cent would be nearer the number.

South St. Paul—From the general reports, we do not believe there are over 50 to 60 per cent as many cattle on feed this year as a year ago.

East Buffalo—We believe that the number of cattle on feed tributary to this market is about the same as a year ago.

Denver—We have made a careful inquiry among the best posted men and they are well agreed that there are not more than 50 per cent the cattle on feed in the territory tributary to this market there were one year ago.

The prospective supply condition is not dissimilar from that of 1908, when liquidation was heavy the early part of that year, the result being a sharp upward turn in the market the latter part of March and April. Long-fed heaves have been conspicuous by their absence for many weeks, while for several months one-half to two-thirds fat steers have been in record-breaking proportion to total marketing. This is beginning to tell on the supply in the feed lots, and if normal conditions prevail in the beef trade we should continue to see a good, strong, healthy trade in cattle.

BUTCHER STOCK HIGH SALE.

Prices for cows and heifers have climbed to a dizzy height. For this time of the year they have never been higher in modern packing times. Clay, Robinson & Co.'s sale of spayed heifers—twenty head of 1,259 pounds average from Missouri—at \$7.10 Thursday of last week was the highest since October, 1909, and market records do not show a time when it was duplicated at this time of the season. As compared with one year ago bulk of trading in beef grades of cows and heifers shows 50 to 75 cents advance, while canners and cutters, also bulls display a like advance. Medium cows and heifers, as well as canners and cutters and bulls, display most gain. The fact that not enough of the low costing steers are coming to meet the demand and that there is an insistent call for cheaper cuts of beef, buyers

Why You Should Buy a

Studebaker Wagon

There is just as much difference between the value of wagons as there is between the worth of horses

IN selecting a horse much depends upon the "breed" and in buying a wagon the "make" is the most important thing to know. If it's a "Studebaker" you know that the "pedigree" is the very best. For almost 60 years the "Studebaker" has been recognized as "Standard" and everywhere it is known as the longest wearing and lightest running wagon. A Studebaker wagon offers you more value for your money than any other make, and it's a reasonably priced wagon.

There are many reasons why this is so. Here are a few of them:

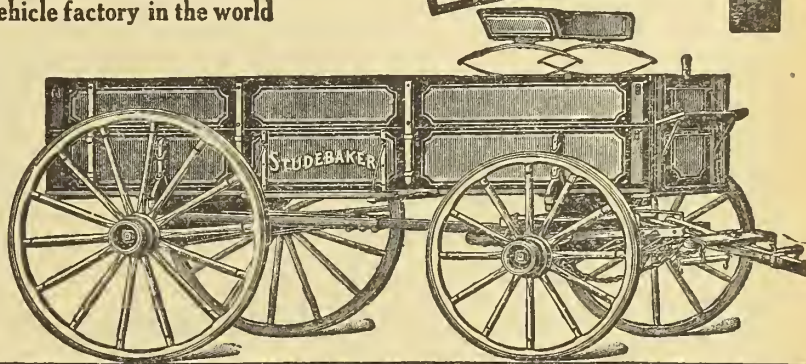
We buy the very highest grade of wood stock. Every piece of wood is thoroughly and scientifically air dried, preserving the full strength and life of the wood. We use the finest grades of iron and steel, and our wagons are reinforced wherever extra wear may be called for.

Our inspection of both materials and workmanship is the most thorough and rigid of any vehicle factory in the world

Going more into details of construction we might mention, New England Black Birch Hubs, slope shouldered spokes, and many other reasons, all of which are fully described and given in detail in our 36-page illustrated book—"THE FARMER'S FRIEND"—sent free on request. It will pay everyone using a wagon to send for this book.

Studebaker Bros. Mfg. Co.
South Bend, Indiana, U. S. A.

Farm Wagons, Delivery Wagons, Buggies, Surries, Driving Wagons, Etc.
Largest Vehicle Factory in the World.



See the Studebaker Dealer When You Need a Wagon or Buggy

1A1217

have no alternative but to fall back on female stock, the supply of which is below that of recent years. There may be times when prices will work lower, but not until grassers become fairly numerous will there be any serious drop in the price range.

HOW HIGH WILL HOGS SELL?

How scarce hogs are in the United States will be disclosed during the next ten weeks. During the first two months of this year, Chicago, Kansas City, Omaha, St. Louis and St. Joseph combined received only 2,577,000, against 3,390,000 last year, a decrease of 822,000. Chicago's supply since January 1st is 365,000 less than last year and 836,000 less than the first two months of 1908. And it must be remembered that the country has resorted to premature marketing right along and that when oats seeding begins and muddy roads interfere with hauling hogs to loading stations the real scarcity will be disclosed. February receipts at Chicago were 116,000 less than last year, and March will show an even larger supply shrinkage.

Advance in hog values has been so rapid in the past month that the most optimistic traders have been surprised. A month ago when the best hogs were selling around \$9.00, very few had the rashness to assert that hogs would sell at \$10.00 by the first of March, though many predicted that price by the first of April. Now that hogs have passed the \$10.00 mark, there are all kinds of predictions as to how high values will soar before the summit is reached, and prices start the other way. There are many who contend that there is nothing that will arrest the upward flight of the market except larger receipts, and they will not be forthcoming till next fall. It certainly looks like an era of high hog prices for some time to come.

TOP BEEVES AT \$8.25.

There was a good demand for cattle last week and, in spite of the increased runs, prices at the close showed 25 to 30 cents advance over the finish of the previous week. All classes of offerings shared in the advance. Top beefs \$8.25, the highest since January, and bulk of sales were at \$5.85 to \$7.45. Most of the butcher grades of cows and heifers brought \$4.25 to \$5.85 and canners and cutters in main \$3.00 to \$3.85. Bulk of the bulls made \$4.60 to \$5.35. Stockers and feeders went at the highest prices of the season, selling in main being at \$5.10 to \$5.65 for feeders and \$4.60 to \$5.15 for stockers.

HOGS REACH \$10.10.

On Wednesday of last week hogs sold at \$10.10, a new high price for

the year, and highest since 1865. This price was obtained by Clay, Robinson & Co. for sixty-eight head of 281 pounds average. The light receipts and urgent demand from both local packers and eastern shippers were the forces that brought about the exceedingly high range of prices last week. Bulk of trading was at \$6.65 to \$10.00.

HIGH MARKET FOR SHEEP AND LAMBS.

The trend of prices for sheep and lambs last week was upward. Supplies were moderate and general demand strong. Top lambs brought \$9.35, this price being obtained by Clay, Robinson & Co. Most trading was at \$8.75 to \$9.25. Yearling sheep reached \$8.50, this sale being made by Clay, Robinson & Co. Pinnacle on sheep was \$8.10, a record price, and selling of ewes and wethers was largely at \$7.00 to \$7.85.

The Orange Groves of California.

The orange groves of California have been made the subject of much talk and many books. They have made a reputation for the state of California that can never be overshadowed. It is a fact, however, that in spite of its advantages as a fruit state the perfection of the Kuhn California Project, by which a quarter of a million of acres of the famous Sacramento valley land will go under irrigation, will do more for the state and more for the people than all the oranges and gold ever did. The soil in this valley is fifty feet deep and needed only water to make it the most fertile and productive in the world. This irrigation project is in the hands of a company whose experience has been extended and whose practical methods have brought the greatest success. They have just now brought out a forty-eight-page book entitled "California—Now or Never." It gives such information as every land seeker will be pleased to learn. It may be had at the low price of ten cents on application to Mr. H. L. Hollister, 205 La Salle St., Chicago, Ill. Note the advertisement on page 40 and fill out the coupon as there requested.

An Excellent Pumping Engine.

The Aermotor Company, of Chicago, places an advertisement of their new \$100 gasoline pumping engine on page 36. This engine has been perfected as pumping power. It is adapted not only for doing the ordinary work of the farm well, but also can be used for pumping large quantities of water for any purpose. Read the advertisement carefully and note the special offer of a pumping engine for \$37.50, then send for other particulars to the Aermotor Company, 2508 12th St., Chicago, Ill.

Over one million Studebaker wagons in use today in the United States. Every owner is a booster. That's why our sales grow larger every year.

"23 Years Without Repairs"
Studebaker Bros. Mfg. Co.,
South Bend, Ind.

Dear Sirs:—I have had a "Studebaker" 3 1/2 in. Wagon in constant use for 23 years without any repairs, not even the tires reset. Yours very truly,
A. S. DENSLOW.

"Studebaker Wagons Give Splendid Satisfaction"
Studebaker Bros. Mfg. Co.,
South Bend, Ind.

Gentlemen:—We have used a "Studebaker" Wagon on our place about 28 years. It is in good running order yet, and will carry just as much today as it did when it was new. Your wagons give splendid satisfaction. Yours truly,
JOHN KOENIGSREITER.

"Used for Over 30 Years"
Studebaker Bros. Mfg. Co.,
Gentlemen:—My father used a Studebaker wagon for over 30 years, and I am still using the same wagon. Yours truly,
A. F. MADDOX.

Seed Potatoes
NORTHERN GROWN

Why take a chance on your potato crop by planting common or home-grown seed? Plant Berry's RED RIVER, WHITE PEACHBLOW, or EARLY OHIO. They grow big and a sure crop. We are making special low prices. You cannot afford to plant common stock. The difference in the cost is only a trifle compared with the great profit by planting our seed.

If you want to make big money on your potato crop, write for our 100-page illustrated seed book. Valuable pointers and new potato growing secrets. Worth thousands of dollars to all who write us. Send today.

A. A. BERRY SEED CO., Box 703, CLARINDA, IA.

BINDER TWINE
Look Before you place your twine orders
GET GALLOWAY'S SPECIAL
SPECIAL PROPOSITION
It will save you money. Big stock, best twine. Get our prices before you buy. Write today for great special proposition.
WM. GALLOWAY CO. Desk 10, Waterloo, Iowa

BEACON LAMP FREE
BURNER

Incandescent. 100 Candle Power. Burns common coal oil. Gives better light than gas, electricity or six ordinary lamps at one-sixth the cost. The one Burner above all others giving greatest light at smallest expense. COSTS ONLY ONE CENT FOR SIX HOURS. We want one person in each locality to whom we can refer new customers. Take advantage of our offer to secure a Beacon Burner FREE. Write today.
HOME SUPPLY CO.,
302 K. C. Life Bldg., Kansas City, Mo.

\$6. Bbl. Flour \$2.75
or 100 Lbs. Sugar 2=

We sell direct to consumer. Cutting Out Middlemen's Profits—groceries, dry goods, shoes, etc. SAVE YOU MORE THAN HALF on most everything. FREIGHT PAID and goods sent ON APPROVAL AT OUR RISK! When you order at least \$17.60 worth (or your friends do so with you), we'll send 1 bbl. flour, or 100 lbs. sugar at \$2.75; or half bbl. flour or 50 lbs. sugar at \$1.40 with \$10.75 order. WHY PAY DOUBLE PRICES for provisions and necessities? Send at once for Special Bargain List, particulars of our Liberal Free Offer, endorse Chicago Wholesale Co., Dept. 7, 40 Michigan Ave., CHICAGO, ILL.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

Mar. 24, Fox & Gallagher, R. C. Jones, W. T. Green and Frank H. Burt, Broadhead, Wis., at Sioux City, Iowa.
 Mar. 29, Earl Moharg, Audubon, Iowa.
 Apr. 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
 Apr. 12, Thomas & Ellison, Rushville, Ind.
 Apr. 20, Geo. McMaster, Bedford, Iowa.
 Apr. 28, Henry H. Kuper, Humboldt, Neb.
 May 20, W. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 2, J. G. Biller, Hartington, Neb., at Crofton, Neb.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 21, Jesse Binford & Sons, Liscumb, Iowa.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranzi, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 6, James Williams, Marcus, Ia.
 June 7, Stanley R. Pierce, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.

Hereford Cattle.

Mar. 29, E. O. Nervig, Slater, Iowa.
 Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 Apr. 16, James E. Logan, Kansas City, Mo.
 Oct. 20, H. D. Clore, Charlton, Iowa.

Percherons.

Mar. 22-23, Combination sale, Sioux City, Iowa, J. B. McMillan, Mgr.

FIELD MEN.

* M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 Fred S. Larkin, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address 2525 Erskine St., Omaha, Neb.
 A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
 E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FILED NOTES.

Poland China bred sows are offered for sale by Mr. Herman Baltz, of Fremont, Neb.

Mr. Mark W. Eddy, Fontanelle, Iowa, is offering a choice lot of Duroc Jersey bred sows for sale.

Short-horn bulls at farmers' prices are advertised for sale by Mr. E. B. Ryan, of Neola, Iowa.

Mr. Will L. Coleman, of Corning, Iowa, is advertising a few choice Angus bulls for sale on page 57.

A number of choice Duroc Jersey bred sows and gilts are advertised for sale by Mr. O. E. Osborn, of Weston, Iowa.

Mr. Z. T. Kinsell, of Mt. Ayr, Iowa, has a splendid lot of young Hereford bulls for sale which he is advertising on page 56.

A choice lot of young Scotch bulls are advertised for sale by Mr. W. H. McLaughlin, of Shelby, Iowa, on page 57 of this issue.

Mr. Geo. W. Bilbo, of Creston, Iowa, has a splendid lot of Percheron stallions for sale. His advertisement appears on page 59.

Mr. Fred McCulloch, of Hartwick, Iowa, desires to secure the services of a good man for general farm work. His advertisement appears on page 29.

Podendorf's big-type Poland China sows, the kind they all want now, are advertised for sale by Mr. A. J. Podendorf, of Logan, Iowa, on page 58. He has a few very choice sows left that he is now offering for sale.

Some very excellent high-class Scotch bulls, fit to head good herds, are advertised for sale by Mr. S. A. Bixler, of Corning, Iowa, on page 57. These are strictly first class and are fit to head the best of herds. It will pay you to go and see these bulls.

Mr. A. R. Ives, of Delavan, Wis., breeder and importer of bay German Coach and Percheron draft stallions and mares, reports that the prospects are good for a large trade this season. He has recently sold six Percheron mares and a stallion to North Dakota parties.

Mr. H. A. Martin, of Gotham, Wis., writes us that he is entirely sold out of Berkshires old enough for service. He does, however, have a few fine fall pigs which he is offering to the trade. He has been having some splendid sales on his Red Polls, but still has a number of young cows and heifers and

a few bulls for sale. Write at once if interested.

Clyde, Shire, Belgian and German Coach horses are advertised for sale by Messrs. Laben Harrison & Son, of Prescott, Iowa, on page 59.

Aberdeen Angus bulls, richly bred and of the very choicest individuals, are advertised for sale by Messrs. Isenbarger Bros., of Battle Creek, Iowa. You can buy a bull of these gentlemen and buy it right.

Mr. Herman Baltz, of Fremont, Neb., breeds Poland China hogs and has for sale now some good sows and gilts bred for March and April litters. They are of good individual merit and their blood lines are of the highest popularity. Write him for additional particulars.

The advertisement of Mr. Pat Leahy, breeder of Aberdeen Angus cattle, at Williamsburg, Iowa, will be found on page 57. Mr. Leahy is offering three good bulls for sale. One is a Blackbird, another is an Erica and the other a Pride. The Pride bull is by Woodlawn Black It and of lines of breeding that are excellent. The Erica is by Earl Eric. Our readers who need bulls should write to Mr. Leahy for further descriptions. He will be glad to accommodate them and can furnish bulls that are good enough for anybody.

An Iowa breeder of Percheron horses has gained an excellent reputation for himself by sending out numerous excellent registered animals of the breed and places an advertisement on page 59 of this paper. We refer to Mr. Will F. Hooker, of Northboro, Iowa. In a letter ordering this advertisement Mr. Hooker advises us that he has some good yearling stallions that will weigh over 1,200 pounds and that are yet running out in blue grass pastures. He has also the kind that will make from 2,100 to 2,200-pound horses. They are home-bred animals. He has a few two-year-old black Percheron imported stallions that will develop around 2,200 pounds and that have bone, size and quality. Our readers who are interested in Percherons should write for prices and additional descriptions to Mr. Will F. Hooker, Northboro, Iowa.

The February issue of the Waukesha County Guernsey Breeders' Sale List and Bulletin contains this significant statement: "There are more Guernsey cattle in the state of Wisconsin than in any other state in the union and the county of Waukesha in the state of

WAUKESHA

GUERNSEY

BREEDERS'

Sale List

and Bulletin

FEBRUARY 1910

ISSUED QUARTERLY IN THE INTERESTS OF THE WAUKESHA GUERNSEY BREEDERS' ASSOCIATION.

Wisconsin contains more Guernsey cattle than any other county in that state or in the United States. There are more tuberculin-tested Guernsey cattle in the state of Wisconsin than in any other state of the union and Waukesha county in the state of Wisconsin contains more tuberculin-tested Guernsey cattle than any county in that state." For further information write Messrs. Fox Bros., Waukesha, Wis.; Howard Green, Genesee Depot, Wis., or William M. Jones, Waukesha, Wis.

Hopley's Percherons.

Don't fail to see the last importation of Messrs. Peter Hopley & Son, of Lewis, Iowa, if you want Percheron or Belgian stallions. It will pay you to go and visit their farms and inspect their horses now quartered there. You will be sure to buy if you go there. Their advertisement appears on page 62 of this issue.

Colorado Irrigated Lands.

Those of our readers who are wanting to know all about good Colorado irrigated lands should read the advertisement of the Ordway Land Co., Ordway, Colo., and write them for description and prices. They have some mighty good bargains to offer. Their advertisement appears on page 40. When writing them kindly mention this paper.

The Griffith Aberdeen Angus Herd.

Mr. John E. Griffith, breeder of Aberdeen Angus cattle, at Washington, Iowa, advertises on page 57 that he has for sale a number of choice young bulls. Some of these are from eighteen to twenty months old, sired by Scottish Hero and Glen's Frileno. Others are of strictly good lines of breeding. On the sides of the dams they carry blood

that can be depended upon for results. For prices or additional particulars write to Mr. John E. Griffith, Washington, Iowa.

Bred Sows For Sale.

On page 58 will be found the advertisement of Messrs. White Bros., of Perry, Iowa, who are offering a choice lot of Duroc Jersey bred sows for sale, due to farrow the latter part of March, April and May. Send them your order as soon as possible if you want the good ones.

Good Short-horn Bulls for Sale.

Six head of good young Short-horn bulls are offered for sale by Messrs. H. Pritchard & Son, of Walnut, Iowa, on page 57. These bulls are good and they are making prices on them such as should move them. If you are on the market for a Short-horn bull write or call upon the above firm. Kindly mention The Homestead when writing them.

Short-horn Bulls.

If you want Short-horn bulls, singly or in carload lots, don't forget to write or go and see Messrs. Riley Bros., Albion, Neb. They have 100 or more on hand, all sired by the very best of Scotch bulls, and to anybody taking a car load will be made special prices. Kindly mention The Homestead when writing them about these bulls. Read their advertisement on page 57.

The Last Chance to Buy Poland China Bred Sows.

Those of our readers who have not already bought their Poland-China bred sows will be interested in the advertisement of Messrs. Williams Bros., of Villisca, Iowa. These gentlemen have one of the most select herds in the state. They breed size and quality combined and if you want their kind send them your order for a sow, or a number of sows, and you will have no complaint with what they send you.

Percheron Stallion for Sale.

Mr. W. W. Vaughn, of Marion, Iowa, announces on page 56 that he is offering for sale a five-year-old Percheron stallion, a steel gray, wide out fellow, heavily quartered, with good bone and excellent feet. He also possesses fine style and action and is a tried and proven breeder. Mr. Vaughn advises us that he is only sold for the reason that he has been used three seasons and has some of his fillies to breed. This horse is right in every way and will be sold at a price worth the money. For any additional particulars write to Mr. W. W. Vaughn, Marion, Iowa.

A Flourishing Horse Business.

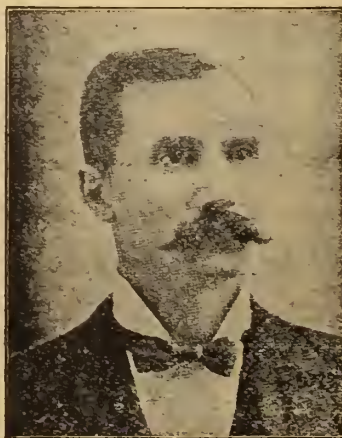
Fremont, Iowa, is rapidly becoming the center of a live trade in draft horses, not only imported and home-bred registered animals, but also the grade drafters. Mr. E. J. Heisel, of that place, an importer and breeder of high-class Percheron and Belgian and other draft horses, writes on a recent date saying that his sales of the past few weeks have included Percheron stallions and Percheron mares to Iowa buyers and a car load of grade Percheron mares to a Missouri man. From the good stock now on hand the purchasers may secure some excellent animals. They should visit or write to Mr. E. J. Heisel, Fremont, Iowa.

The Battles Aberdeen Angus Herd.

The advertisement of Mr. O. V. Battles, of Maquoketa, Iowa, will be found on page 57. This herd is headed by Thickset Blackbird, first-prize junior calf of 1908, and Oakville Quiet Lad, an undefeated show bull. There is a whole lot of show-yard record connected with these two bulls which a lack of space will prevent enumerating. It is enough to know that he has for sale a splendid lot of young bulls. One of these is a nine-months-old double Trojan Erica. There are others equally as well bred and have the right kind of Aberdeen Angus character. Half a dozen young heifers from two to four years old will be sold with calf at foot by Glenfold Thickset. Correspondence is solicited from buyers. Address Mr. O. V. Battles, Maquoketa, Iowa.

A Successful Auctioneer.

We present herewith a portrait of Col. C. C. Keil, of Grinnell, Iowa. The colonel advises us that he is just closing a very successful sale season. He has sold in nearly all of the middle states since last September. His sales include Short-horns, Herefords, Polled Durhams, Duroc Jerseys and Poland



Chinas, as well as some good horse sales. The colonel is booking sales for the fall season and anyone who wants a first-class auctioneer will do well to write him early before the better dates

are taken. The colonel has been in business for twenty-five years and has a great many patrons who will testify as to his merits. For prices or dates address Col. C. C. Keil, Grinnell, Iowa.

Danforth's Red Polled Cattle.

A recent letter from Mr. W. B. Danforth, of Little Cedar, Mitchell county, Iowa, concerning his Maple Grove herd of Red Polled cattle, says: "Our cattle have been coming through the winter in fine shape. We have been kept quite busy shipping out stock, having filled several orders for cattle from Iowa towns, as well as having made shipments to Minnesota, Nebraska and Kansas during the past month." Mr. Danforth is quoting very reasonable prices on his cattle and will be pleased to send his herd list to those who are interested in the stock he has to offer. For additional particulars see the advertisement on page 56 and write to Mr. W. B. Danforth, Little Cedar, Iowa.

Duroc Bred Gilts.

Mr. Frank Elder, of Green, Kan., proprietor of the Highland herd of Durocs, has a change of advertisement on page 55 in which he offers twenty Duroc bred gilts. These are daughters of the great King of Colonels boars, King of Colonels II, and G. C.'s Colonel, two as great breeding boars as are found. Their get grow out big and smooth and are just such hogs as the more exacting hogmen of today are demanding. These young sows are bred to Elder's Wonder, one of the greatest descendants of old Crimson Wonder, and to F. E.'s Colonel, a Colonel hoar whose pedigree is such that the cross on gilts by King and G. C.'s Colonel looks good. If you want some desirable young bred sows at prices that are right, look up Mr. Elder's advertisement and write him, mentioning this paper.

An Iowa Short-horn Herd.

Messrs. Smith & Barnhart, of South English, Iowa, advertise their herd of Short-horn cattle on page 57 of this paper. They have at the present time on hand a fine lot of Scotch and Scotch-topped cattle and in particular we wish to call the attention of our readers to a few excellent young bulls, three of them of Scotch breeding. One of these bulls is a handsome roan, Scottish Leader, a September yearling whose blood lines include some of the more prominent and best appreciated strains. He is a son of Royal Victor. A red calf, Rosebud's King, is a December yearling of Scottish fame. A white calf, also a September yearling, is a son of Royal Marshall. His breeding throughout is of a highly desirable character. For additional particulars address Messrs. Smith & Barnhart, South English, Iowa.

Some Choice Hereford Bulls for Sale.

Those of our readers who want to buy a good young Hereford bull should write to or call on Messrs. Schain & Keep, of Atlantic, Iowa. They have some extra choice bulls and they want to dispose of them as soon as possible. Among the number is a bull called Paulin, a strapping big fellow, good in both ends, with a good coat of hair and right in every way. Another good bull is March On 6th by March On 16th, and he is out of Curly Rose by Sunny Slope Tom. Here is a bull that is good enough to go into any herd. He is seventeen months old and is a typical March On. Western Anxiety 8th is sired by Western Anxiety, and Bonny Boy is a son of their old bull, March On 16th. There is not a poor bull in this bunch. Write Messrs. Schain & Keep or go at once and see these bulls. Kindly mention The Homestead when writing them.

Draft Horses for Sale.

Messrs. E. P. Hamilton & Sons place an advertisement on page 56 in which they announce that they have for sale draft stallions and mares of the English Shire, Clyde, Percheron and French Draft and standard-bred breeds. They have an excellent lot of young Percheron stallions that are just developing into big, strong-boned horses that cannot fail to prove effective in the hands of buyers. They have in particular an imported English Shire stallion that will be sold at a remarkably low price. This special bargain is offered only because the Messrs. Hamilton have so many on their place that they must get rid of some of them quick. The mares which they offer for sale are all recorded, of breeding age and, in general, animals worth looking after. For prices or other particulars write to Messrs. E. P. Hamilton & Sons, Garden Grove, Decatur county, Iowa.

A Sioux City Combination Sale.

As will be learned from the advertisement on page 55, a combination sale of Percheron stallions and mares will be held at the sale pavilion at Sioux City, Iowa, on March 23d. The list of consignors to this sale includes Messrs. H. G. McMillan & Sons, Rock Rapids, Iowa; P. W. Moir, Orange City, Iowa; W. H. Kerr, Bennington, Neb.; Muirhead & Barr, Bradshaw, Neb., and O. D. Hart, Le Mars, Iowa. The offering will consist of forty-five mares and fillies and twenty-five stallions. There will be about ten yearlings in the sale. These horses have not been fitted or prepared for the sale, but they are good, straight Percherons. As this is the last public sale of Percherons to be held anywhere in the West this season it will be the only opportunity left to secure good animals at a time when you can put them right to work and make them earn their living. It is possible also that as quite a number of Percheron sales have been held and the demand pretty well supplied some good bargains may be had at this sale. It will be under the management of Mr. J. B. McMillan, of the Lakewood Stock

Farm, at Rock Rapids, Iowa, and will be conducted in the usual satisfactory manner. For catalogs address Messrs. H. G. McMillan & Sons, Rock Rapids, Iowa.

Good Duroc Bred Sows For Sale.

Messrs. Huffman & Chapman, proprietors of the Brighton Stock Farm, at Washta, Iowa, write that they have a few more of those good bred Duroc sows and gilts yet left to dispose of and among them are some very choice full yearlings that will weigh from 350 to 400 pounds and are due to farrow the last of March and the first of April; also some aged sows and spring gilts. They say they are only asking a little more than pork prices for these good bred sows and gilts, as they wish to move them soon and they have more than they want to hold over on their own farm. Anyone wishing to buy should avail themselves of this favorable opportunity at once by either going to see them or writing them and mentioning The Homestead.

Good Bates Bulls for Sale.

A couple of very excellent Bates bulls are offered for sale by Mr. O. M. Healy, of Bedford, Iowa, whose advertisement appears on page 57 of this week's Homestead. One of these is Wapsie Grand Duke 8th, a son of the 2,190-pound Duchess bull, Duke of Wapsie. His dam is Wapsie Grand Duchess by 4th Duke of Oaks. He is a grandly-bred Duchess bull and is the best he has for sale. He is a two-year-old and weighs 1,800 pounds. Another is 5th Duke of Wapsie by Wapsie Kirklevington Duke 7th. Here is also a richly-bred Duchess bull and a good individual. The Healy bulls are bred in the blood of the most noted milking strains of Bates cattle and those who are looking for bulls bred along these lines should write or go and see Mr. O. M. Healy at once. Kindly mention The Homestead when corresponding with him.

Hunter & Lefebure's New Stallion Barn at Carroll, Iowa.

We desire to call the attention of Homestead readers to the new horse firm of Messrs. Hunter & Lefebure, who have established headquarters at Carroll, Iowa. They are certainly located right in town and have a splendid lot of Percheron, Belgian and Shire stallions that they are offering for sale. These horses range in age from three to seven years and are a good lot of horses. They now have in their barn a most excellent three-year-old Percheron that was a winner across the water and for the man who is looking for something very choice this horse will suit. They have several other good three-year-olds and one five-year-old Percheron. They have two excellent Belgian horses and one very choice four-year-old Shire stallion. The latter horse is a good mover, a big-boned fellow and is a horse that will hold his own in any company. This firm are located in Carroll, Iowa, one of the most centrally-located towns in western and northwestern Iowa. It will pay anybody to visit their barn and look over their horses. If you are wanting stallions of the above breeds this firm are making special prices for the next thirty days and are offering some spe-

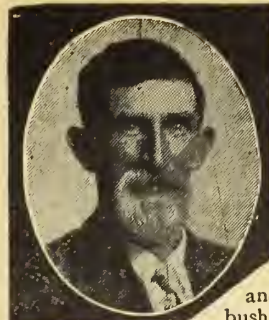
cial bargains and it will pay you to go and see them. Kindly mention The Homestead when writing them.

G. C. Roan's Great Jack Sale.

On next Tuesday, March 15th, at La Plata, Mo., Mr. G. C. Roan, of La Plata, Mo., makes the last sale of Mammoth jacks and jennets to be sold this year. He has listed a great lot of jacks, every one a jack that is broke and known to be a sire of good mules. Mr. Roan was out to the three great jack sales held last week looking for stock that he might add to his stud and it was he who made the others bid up when the top jacks, that would make fitting herd jacks, were sold. Mr. Roan was the contending bidder on the greatest yearling sold in the famous Limestone Valley Farm sale. This shows the kind of stuff Mr. Roan handles and those who go to his sale will find him ready to stand squarely behind the stock he sells. His jacks are all Mammoth-bred jacks that are acclimated and ready for service. See page 59 for Mr. Roan's advertisement and get his catalog.

Some Excellent Butter Records.

The Walnut Grove herd of Holstein-Friesian cattle at Woodward, Iowa, is rapidly becoming one of the better-known western points of interest of that breed. A letter from the manager, written recently, states that a series of seven days' official tests of six of their Holstein-Friesian cows resulted as follows: Juk Queen 3d's Buttercup, thirteen pounds of butter in seven days at two years old. Erica Pietertje Gerben, 10.82 pounds of butter in seven days at two years old. Gudulje Gerben Wayne, 13.02 pounds of butter in seven days at two years old. Lucille Uhlman 2d, 11.08 pounds of butter in seven days at two years old. Rhoda Jewel Abbecker made 16.53 pounds of butter and Mercedes Milk Maid made over sixteen pounds of butter in seven days. With reference to the bulls offered for sale from this herd the gentleman writes: "We have a few young bulls left that are brothers to the best of these two-



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No farmer can afford to plant inferior seed. It costs just as much to plant and cultivate corn that only yields 25 to 40 bushels per acre as it does to plant and cultivate the seed we will sell you for 32 cents per acre that will yield 75 to 100 bushels per acre. For over fifty years I have been breeding seed corn—I know the importance of planting good seed. And I know that

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will make big money for every man who will plant it. Figure it out yourself. The cheap seed costs you 20 cents per acre—yields 25 to 40 bushels; Vansant's Pure Bred Seed Corn costs you 32 cents per acre—yields 75 to 100 bushels—50 to 60 bushels per acre more than the cheap seed. And those extra 50 or 60 bushels will only cost you 12 cents extra for the seed. Can you make money easier or faster than to pay 12 cents per acre for seed that will yield you 50 or 60 extra bushels per acre—with an extra work—at no extra expense—but with a lot of extra profit? You can't afford to plant cheap seed. Our 1910 catalog tells you how our wonderful seed corn is grown, cured and marketed—fill out the coupon and we will send you the book free. Write for it today.

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Box 25

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Gentlemen: Please send me your 1910 Seed Corn Catalog.

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CUT OUT THIS COUPON

dams and sired by Sir Fayne Concordia, the only full brother to Grace Fayne 2d's Homestead with a record of 35.55 pounds of butter in seven days at the world's fair. His dam, Grace Fayne 2d, made 23.6 pounds of butter in seven days and gave 103 pounds of milk in

one of them is good enough in breeding and individual merit to head a high-class, pure-bred herd. In age they range from one week to five months. For additional particulars write to Mr. Jesse Elliott, Woodward, Iowa.

College Stallions for Sale.

We are just advised by Prof. C. F. Curtiss, of the Iowa State College of Agriculture, that the college is now about to offer for sale the splendid imported gray Shire stallion, Dapple Tom, a five-year-old horse of remarkable quality and a breeder of known reputation. Dapple Tom was imported for the college some three years ago. He was the sire of Carlton Greystone, a colt that was selected by Mr. J. H. Truman exclusively for the purpose of showing at the last International, where he was awarded second prize, although shown just a few days after having landed. Carlton Greystone has since been sold at a very long price and is regarded as one of the best two-year-old colts ever brought to America. The college is also offering for sale two Clydesdale stallions coming two years old and one International prize-winning mare five years old. Any additional particulars concerning any of these horses may be had by writing to Prof. C. F. Curtiss, Iowa State College, Ames, Iowa.

Don't Fail to See Humbert's Percherons.

The man or company who is contemplating buying a Percheron stallion should not fail to go and see the grand good lot of horses that are offered for sale by Messrs. E. H. Humbert & Son, of Corning, Iowa. This firm now have their large sale barn in town so that these horses can be inspected between trains. They are offering forty head of high-class stallions and they are certainly good ones. No firm in the West brings better horses across the water than do the firm of Messrs. E. H. Humbert & Son, and they are now offering a splendid lot of yearling, two, three, four and five-year-old horses, all blacks and grays, and not a poor one in the bunch. They have a five-year-old black stallion that is a "clinker." He will weigh 2,050 pounds and a better horse will be hard to find in the state. Then they have a lot of younger horses that will make ton and over stallions and will be just as good when matured. If you want to buy a stallion that is all right in every way and from one of the most reliable firms in the West, then be sure to call and inspect the horses offered by the above company. When writing them kindly mention this paper. See page 61.

A Des Moines Short-horn Sale.

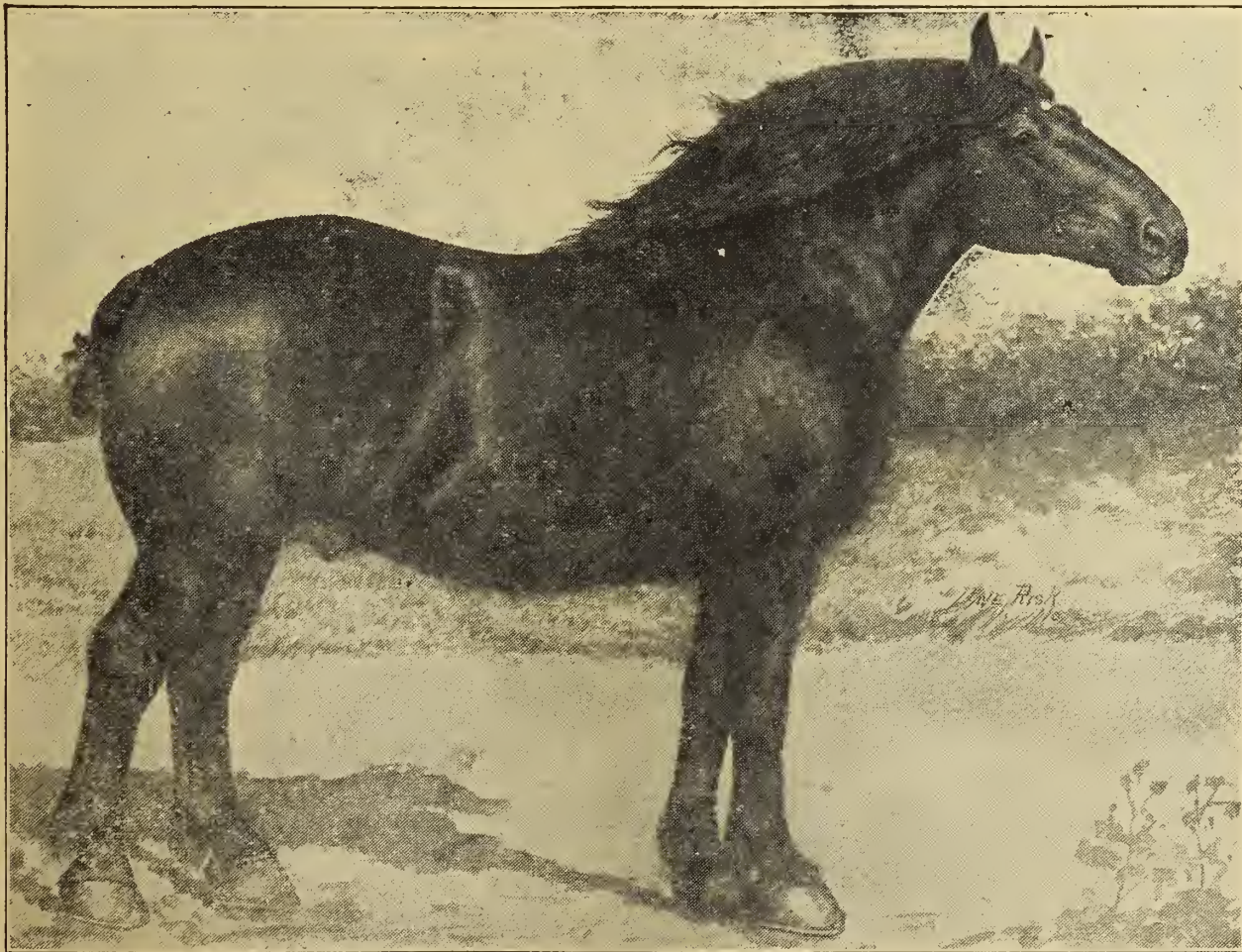
Owing to the fact that not many sales of Short-horn cattle will be held this spring it will be well for breeders who are looking for high-class Scotch blood lines to look carefully after the consignment of Mr. O. O. Smith, which will be held at Des Moines, Iowa, on Wednesday, March 16th. Only a limited number of bulls have been cataloged, but these are strictly good ones, not only with reference to blood lines they carry, but also as to individual merits. If there were to be a criticism of these animals it would be that they are not in the high condition of flesh incident to the ordinary sale. They are just in plain, farm-kept condition and, therefore, better for the buyer than if they had been overfitted. The female consignment is especially strong in the popularity of the blood they carry. Lot 2 in the catalog is a Cruickshank Queen of Beauty, a granddaughter of Northern Light, dam by the Dryden-bred bull, Royal Victor. Back of that there are four or five generations of Cruickshank blood. She is a cow of excellent breeding character and a regular producer. She has been bred to Star Goods, No. 1 in the catalog. No. 3 is Missie's Princess Third, a six-year-old Missie by King Gloster. This cow descends directly from a long line of Marr Missies and on the side of her sire includes such well-known animals as Imp. Bandmaster and Imp. Prince President, both Cruickshank-bred animals that were in service in prominent

NEXT WEEK'S SALE PROGRAM

Tuesday, March 15 { Herefords, A. E. Cook, Odebolt, Iowa.
Jacks and Jennets, G. C. Roan, La Plata, Mo.
Wednesday, March 16 { Herefords, A. E. Cook, Odebolt, Iowa.
Short-horns, O. O. Smith, Des Moines, Iowa.

year-old heifers. Their dams are mostly cows with good A. R. O. records. The sire of the young bulls of serviceable age is Gudulje Gerben Sir Fobes, an advanced registry bull. It is of additional value that every one of his daughters in milk have qualified in A. R. O. tests. We also have a number of extra good bull calves from A. R. O.

one day in an A. R. O. test. The sire, Homestead Jr. De Kol, is the only bull of the breed who has five daughters that averaged over thirty pounds of butter in one week. Parties who will be in need of good bulls for next season's use will find it to their advantage to buy these calves now before they have been picked over. Nearly every



A NEBRASKA STATE FAIR-WINNING PERCHERON.

The engraving herewith presented is a portrait of the Percheron stallion, Cuvon 62384 (68489), owned by Messrs. Maasdam & Wheeler, at Fairfield, Iowa. This horse was champion Percheron stallion at the Nebraska State Fair of 1909. He weighs 2,100 pounds. These gentlemen advise us that they have on hand a fine lot of stallions weighing from 1,900 to 2,100 pounds, imported and home bred, from two to five years old, and also a number of yearling stallions and mares, the latter from weanlings to six-year-olds. They write that all the stock will be sold at very reasonable prices. The advertisement will be found on page 62. For description or other particulars write to Messrs. Maasdam & Wheeler, Fairfield, Iowa.

Iowa herds. Then there is Minnie lavender, a cow by that great old herd bull, Duke of Oakland 2d. She is a granddaughter of Imp. Lavender 56th and carries strong infusions of Cruickshank blood. Nerissa 16th of Maine Valley is another cow of tried and known merits. She belongs to the Nerissa family, that did so much in the herd of Mr. Chandler Jordan and, in fact, was bred by that gentleman. Her dam was a daughter of Imp. Confessor and her second dam a daughter of Imp. Royal Bampton, both of which bulls were bred by Mr. Amos Cruickshank. We might continue at some length in individual references, but must refer our readers to the catalog for additional information. Really there is too much good breeding to permit the consignment to be neglected by those who want strictly high-class cattle. If they want blood and individual character it is in this consignment. If they want fat, it is not. Catalogs may be had by writing to Mr. O. O. Smith, Urbandale, Des Moines, Iowa. See page 57.

A Growing Importing Firm.

The advertisement of Messrs. Watson, Woods Bros. & Kelly, of Lincoln, Neb., will be found on page 55. This firm is one of the reliable importing and breeding institutions of the West. They began business in a small way a number of years ago and pleased their customers so well with the quality of horses sold that they continually grew from the beginning and today stand among the leaders west of the Mississippi river. During the month of February the firm advise us thirty-five head of stallions have been sold from their stables. Early in August and October over 100 head were imported. Finding later that they would run short Mr. Joseph Watson, their well-known buyer, returned to the old country and brought back another splendid importation of Shires, Percherons and Belgians which arrived in January. Particulars concerning the last importation may be had by writing Messrs. Watson, Woods Bros. & Kelly, Lincoln, Neb.

Geo. H. White Offers Good Short-horn Bulls for Sale.

On page 57 of this week's Homestead, Mr. Geo. H. White, of Emerson, Iowa, offers twelve head of choice Short-horn bulls for sale, and seven of these are straight Scotch. They are sired by Hampton's Counsellor, The Dreamer, Victor Archer and Straight Marshall. These bulls belong to the Cruickshank Lavender, Missle, Ury and Princess tribes. Besides these he has a number of good Scotch-topped young bulls for sale. He has a splendid Lavender bull for sale and he is also offering Hampton's King, the first-prize bull at the Iowa State Fair last fall. Hampton's King was also second-prize bull at Hamline, Sioux City, Kansas City, Sedalia and Huron, S. D. He is sired by Hampton's Counsellor and out of Anoka Platt by Whitehall King. This bull is a nice roan in color and will make a good herd bull. A further description of this bull is unnecessary, as he was one of the outstanding bulls at the fairs last fall. If you want a bull it will certainly pay you to call on Mr. Geo. H. White and inspect his bulls. Kindly mention The Homestead when writing him.

Poland China Enterprise.

During the past season it has been shown that the tendency of buyers of Poland China hogs has been favorable to the large-type hog. In fact, the highest averages at brood sow sales of the season have been for those that filled this description. It will be of interest to know that with the advancement made by breeders in this respect lately, Mr. H. Fessenmeyer, of Clarinda, Iowa, showed considerable enterprise in paying the sum of \$345 for the great Wheeler Mastodon boar, A Wonder 107353. A Wonder has been generally exploited as one of the biggest, if not actually the biggest, strongest-boned and most highly finished hog of his size known to the breed at the present time. He is a most attractive fellow and will weigh half a ton when in breeding condition and could probably be made to tip the scales at 1,200 pounds if put in high flesh. As an evidence of the high estimation in which this hog was held by breeders it will be noted that at the Wheeler dispersion sale sows bred to him sold at an average of \$166.25 each. Mr. Fessenmeyer has undoubtedly made a ten strike in having secured this hog.

Duroc Jersey Bred Sows.

Mr. Geo. W. Speirs, of Hedrick, Iowa, breeds Duroc Jersey hogs and on page 56 announces that he still has for sale a few extra good bred sows. A representative of this paper visited the Speirs herd last week. It is headed by Chief Junior, a hog of remarkable size and vigorous character. Chief Junior is by old Ohio Chief and his dam is by Orion 2d, he by the noted old Orion, and the second dam traces to strong infusions of the Colonel strain, from the noted old World's Fair winner, Colonel M. Chief Junior is a hog which, had he been in the hands of a breeder given to exploiting his goods, would certainly have had a state-wide reputation. He is a breeder as well as a hog himself. Mr. Speirs has in his herd in particular, one yearling sow that is a mighty close approach to a show animal, having a perfect back, strong legs, and good feet and a deep, smooth side. The bred sows in Mr. Speirs' herd trace to Advancer, Duroc Wonder, Oom Paul, King Perfection and other prominent strains. His sows for the coming crop of pigs have been bred to Silver King (by a grandson of Orion and from a dam tracing from Van's Perfection), Dandy Red, Red Eagle and Buddy K's Top Notcher, the latter a grandson of old

Buddy K., and his dam was a litter sister to McNeil's Model. We wish there were space to go further into the excellent blood lines of this herd. However, we advise those who want to buy bred sows to write immediately to Mr. Geo. W. Speirs, Hedrick, Iowa.

A Lively Draft Horse Interest.

During the past few months there has been the most decided interest in Percheron horses and a lively race for the selection of extra good stallions. We note among recent purchasers of this class of stock the names of Messrs. E. M. Benfer, Leona, Kan.; John F. Foster, Forbes, Iowa; H. & N. W. Crockett, Rea, Mo.; Wm. Z. Zoller, Preston, Neb.; F. C. Achtemeier, Harbine, Neb.; C. C. Andrews, Steele City, Neb.; R. W. Crane, Laredo, Mo.; J. M. Bryon, Clarinda, Iowa; James C. Wright, Smithville, Mo.; J. R. Jillet, Jamesport, Mo.; E. G. Miller, Harris, Mo.; Wagaman Bros., Hepburn, Iowa, and Arnold Lange, Huron, Kan. It is not a little to the credit of the Percheron Importing Company, of South St. Joseph, Mo., that all these selections were made from the barns of that company. Mr. Chas. R. Kirk, the manager, also advises us of the sale of the two times prize-winning Shire stallion at the American Royal, Clevely's Harold, to Mr. U. A. Towns, of Bethany, Mo. The advertisement of this company will be found on page 59 of this issue. They have a number of most excellent stallions still left for sale, concerning which our readers may secure information by writing to the Percheron Importing Company, S. St. Joseph, Mo.

Good Poland China Bred Sows for Sale.

Those of our readers who are wanting some good Poland China bred sows will be interested in the advertisement of Mr. F. W. McIntyre, Red Oak, Iowa, on page 58 of this week's issue. He has about fifty head of gilts, fall and spring yearlings and a few matured sows that he is offering for sale, and these are strictly all right. These are growthy and are bred in the larger strains with quality combined. There are twenty fall yearlings in the bunch and these will please anybody that sends an order for them. They are sired by P. W. Giant and Hadley, the latter boar being a son of Mr. John Blain's famous Big Hadley. These sows are bred to Hadley, Jumbo and Victor, the latter boar being a son of Mr. D. C. Lonergan's famous Big Victor. These sows are bred for late March, April and May litters and he is pricing them for from \$35 to \$75. Write Mr. McIntyre at once about these sows and tell him when you want them to farrow and what you want to pay for them and send him your order and let him pick out the sows. He will treat you right and you can depend on his selections. Don't delay your order, but send it right away before these sows are gone. Kindly mention this paper when writing him.

John Fitch Offers Good Angus Bulls For Sale.

On page 55 of this week's Homestead will be found the advertisement of Mr. John H. Fitch, of Lake City, Iowa, one of the best-known breeders of Aberdeen Angus cattle in the state. He is now offering a very choice lot of young bulls for sale of the very best families. Among the lot is a splendid two-year-old Trojan Erica sired by the Blackbird bull, Bredo, and this bull is good enough to head any herd in the West. He also offers a very choice two-year-old Blackbird bull sired by Bredo and out of Blackcap of Maple Grove. Either one of these bulls will make a herd bull of high order. Then there is another good two-year-old Queen Mother bull sired by Bredo and out of Elvira of Four Pines 4th, as well as a choice lot of younger bulls. Mr. Fitch also has a very nice young Pride bull by Coquette Prince and out of a dam by Bookmaker. Some of the younger bulls are sired by Blackbird Dan, a triple-bred Blackbird bull, and he in turn is a son of the mighty Black Woodlawn. Mr. Fitch is offering these bulls at most reasonable prices, as he wants to sell them and the man who wants an Angus bull can buy them right. Write him at once about these bulls and kindly mention The Homestead.

Norton's Cruickshank Bulls.

Short-horn men who are looking for a good bull to head their herd will be interested in a number that the noted breeder, Mr. C. C. Norton, Corning, Iowa, is now offering for sale. A two-year-old called Clipper Chief, he by Banker's Victor and out of the noted cow, Pine Grove Clipper 4th, by the celebrated Marquis of Zenda, is good enough to head any herd. He is a massive, thick-fleshed, roan bull, and an animal that would look good in any company. He also has a nice Cruickshank Butterfly by Butterscotch that will make a good bull. Another good bull is out of the celebrated cow, Imp. Honeycomb, and another good, big, growthy Cruickshank Butterfly is by Gloster's Favorite and out of one of his best cows, called Beatrice. Then he has two very choice September bulls that are outstanding for their age, and these will make splendid herd bulls. Both of these are sired by his well-known bull, Gloster's Favorite. One of these is out of Sweet Charity 13th and therefore belongs to Mr. Norton's celebrated Sweet Charity tribe. This is one of the most famous Cruickshank tribes that has been used in this herd. The granddam of this bull is Sweet Charity, a cow that is twenty-one years old and still remains in the herd and is again safe in calf to Cumberland Chief, a son of Cumberland's last, that is now the chief stock bull in the Norton herd. This bull promises everything in this herd and his calves now coming on show every evidence of Mr. Norton's wise selection

JOINT SALE

OF

50 SHORT-HORN 50 CATTLE

SIoux CITY, IOWA, MARCH 24, 1910

From the herds of Fox & Gallagher, Oregon, Wis., R. C. Jones, Oregon, Wis., W. T. Green, Orfordville, Wis., and F. H. Burt, Brodhead, Wis.

THE OFFERING WILL CONSIST OF

18 BULLS AND 32 FEMALES

BOTH Scotch and Scotch-topped cattle will be included, and a number of them have won honors in both state fairs and international shows. All of them are young and useful. The cows are the get of White Rock by Whitehall Sultan, Hero Knight, Gloucester Echo, son of Baron Gloucester; Young Demonstrator by the noted show and breeding bull, Demonstrator; Onward by Earl of Rockbridge. The cows are also bred to the above bulls. For catalog address

F. H. BURT, BRODHEAD, WISCONSIN.

Col. Carey M. Jones and Assistants, Auctioneers.

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Dustless, perfect track—electric block signals—dining car meals and service "Best in the World."

For rates and other information call on or address your Local Agent or

E. L. Lomax, G. P. A., Union Pacific R. R. Co., Omaha, Neb.
J. W. Turtle, T. P. A., 310 W. 5th Street, Des Moines, Iowa.

in putting him at the head of his herd. If any of our readers want a herd bull it will pay them to go and see the bulls that Mr. Norton is offering for sale. When writing him kindly mention The Homestead.

Nervig's Hereford Cattle Sale.

Mr. E. O. Nervig, of Slater, Iowa, announces a public sale of Hereford cattle at his farm on Tuesday, March 29th. The advertisement will be found on page 57. The sale consists of a most excellent lot of young cattle, including the surplus bulls of the farm and a

promising lot of heifers. Mr. Nervig has been breeding cattle for quite a number of years and the herd has grown to such proportions that it has overstocked his farm and he takes this means of disposing of the surplus. Owing to the limited number he is compelled to put in a bunch of heifers that really ought to be reserved. A considerable proportion of these animals are the get of Brigadier 10th. This is a bull of the beef type and one whose conformation would be recognized as such in the show rings were he put in flesh. He comes by his excellence nat-

urally, as he is a grandson of the noted Lamplighter and carries in addition a double cross of the great Don Carlos bull on the side of his dam. Other lines of good breeding are prominent in the consignment. For additional facts, however, obtain a copy of the catalog, for which address Mr. E. O. Nervig, Slater, Iowa.

Poland Chinas and Polled Durhams.

Messrs. P. S. & S. Barr, of Davenport, Iowa, write under recent date, saying: "We are all sold out of Poland and China gilts, but the young crop are coming on rapidly and we expect to be in good shape for fall trade. We are now offering for sale some Polled Durhams cows, heifers and bulls, and also our dark red three-year-old bull. We have a two-year-old Poland China herd boar which we would be glad to dispose of. The advertisement of this firm will be found on this page. For prices on the animals mentioned write to Messrs. P. S. & S. Barr, Box H., R. 4, Davenport, Iowa.

What Frank Iams is Offering.

Mr. Frank Iams, of St. Paul, Neb., has a word to exchange with those of our readers who are interested in good horses. Regarding his present offering he writes: "Frank Iams' prize stallions and mares 'hypnotize' carloads" of "Ikey stallion buyers" and make them "sit up and take notice." and buy imported horses of Iams. His big "black boys" are "ripe peaches"—and all must be sold. Get on to "Iams' money-saving game." Buy stallions and mares today. Get stallions ready for "spring business," Ikey Boy. Be the "early bird," they get the business and the choice of Iams' "black boys." "Leave your happy home" and visit "peaches and cream" stallion man and save \$1,000. Every day is "bargain day," a "horse-show day," and a day of "profit and pleasure" at Frank Iams' "stallion and mare emporium," the largest in the United States, at St. Paul, Neb. You will positively see here more imported stallions and mares—"top notchers," "medal winners," "ribbon grabbers" and everyday "business" horses than at any other "horse plant" in the United States, and double all others in Nebraska. Iams backs up his "ads" and catalog with a "\$500 bonus" (no others do this). He gives five of the best banks in Nebraska for reference. Iams' 160 kings and queens of Percherons and Belgians are all "top notchers." No International "tail ends," no "auction stuff," no "pick ups" or "peddlers' horses," but the best bunch of big-boned, big drafters of quality and finish in the United States, and in the "pink of condition," Iams is a "big fly in the ointment" in the "horse business." He sets the pace for all competitors. Iams "leads the procession," "Ikey Boy." Buy an imported stallion and two mares of Iams, the horseman who "does things." Get into Iams' "band wagon," don't be "sidetracked" by any "hammer knockers." Ikey Boy, "waltz me around once again" and land me at "Iams'" "four importing barns" and box office, filled to the roof with big "black boys and girls" at bargain prices. Iams is the only horseman that really has "the goods" as advertised. The year 1910 promises to be the most prosperous year in history. Mr. "Stand Patter," "come on down town." All the world knows Iams, the big horseman. He has a loving feeling for horse buyers. He sold sixty imported stallions and mares to "Iowa boys" in 1909, and 150 "top notchers" to the boys with brains in other states. Iams sells \$4,000 imported stallions at \$1,000 and \$1,400 (some higher); imported mares, in foal, 1,700 to 2,400 pounds, at \$700 to \$1,000; many medal winners. Iams sells the "wide-as-a-wagon" kind that don't need to be peddled or put on the "auction block" to "catch suckers." Iams is a horseman in a class by himself; he is selling more horses yearly. Ikey Boy, "don't be the lobster," be "the wise guy after all." Try Iams, the "peaches and cream" stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a "warm spot" in his heart for all stallion buyers. He saved \$300,000 to stallion buyers, in 1909, by selling direct to the people saving all the middleman's profit. Iams is an expert horseman. He knows the "top notchers" and delights in selling first-class stallions for less money than any competitors. He is "a pushin'-and-a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the tricks of the slick stallion salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 and \$4,000. "Son Ikey!" form your own "stallion company." Visit Iams' town of barns filled to the roof with big "black boys" the "best ever"—"Iams' kind." His 160 stallions and mares, two to six years old, weight 1,700 to 2,500 pounds, 90 per cent black, 60 per cent ton horses, are a horse show better than the "International." Iams' 1910 horse catalog is an "eye opener," a bunch of gold, the book of books to stallion and mare buyers. It is full of truths, facts, "business propositions" and 115 illustrations of the best and largest imported stallions and mares in the United States, "true to life," the "wide-as-a-wagon" drafters, the real "peaches and cream" stallions. It shows the "tricks" of "stallion peddlers" and "auction-block salesmen." It is the finest, most elaborate and original up-to-date book in the world. Iams' twenty-eight years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on honor. A boy or lady can buy as cheap as a man and get a better horse of Iams, the

"square-deal" horseman. If you visit him and don't find every statement in his advertisement or catalog, as represented, you can get the \$500 that he hangs up. Iams guarantees to sell you a better stallion at \$1,000 and \$1,400 (few higher) than are being sold to farmers' stock companies for \$2,500 and \$4,000; with 60 per cent breeding guarantee, with freight and fare paid by Iams. He can furnish buyers \$1,500 insurance. You say, "Why can Iams sell better stallions at half the price of others?" Iams buys and sells every stallion himself. He buys by special train load, 200 at a time. He speaks the languages, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick" salesman \$100 to \$1,000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions. He sells stallions by "hot" advertising and having "the goods" to make every statement good. Iams sells stallions so good that they do not need a "slick" peddler or an "auction block" to sell them. Special prices made at Iams' barns only. Iams will save you \$1,000 in commissions and middleman's profits. "Papa, dear," buy me a pair of imported mares at Iams'. They will raise me colts at six months old that will sell for \$500 and be good for twenty years. Iams has the kind that lay those "golden eggs." Don't let one of these "auction men" "hand you a lemon" with one of these so-called American full bloods with questionable breeding. Iams' "selling clothes" fit all buyers. Write for Iams' million dollar horse catalog. Iams' guarantee is backed by one-half million dollars. References: Omaha National and First National, Omaha; Citizens National, St. Paul State Bank and First State Bank, St. Paul, Neb. See page 61.

Goodwine's Hampshire Swine.

On this page of this issue you will find the advertisement of Mr. John Goodwine, of Potomac, Ill., offering Hampshire bred sows. A Homestead representative visited this herd last week and found that Mr. Goodwine had an excellent lot of sows and gilts to sell. This herd has won scores of prizes at the leading state fairs and at the International during the past few years. At the last International Mr. Goodwine only exhibited barrows and on these he won champion barrow and champion pen of three barrows. This shows the class of stock he breeds. A very important fact that we might call your attention to is that the noted herd of Mr. A. L. Goodenough, of Morrison, Ill., is largely the produce of three sows he purchased from the Goodwine herd. We mention these facts to show you that this is a good place to buy a foundation for a herd. The sows and gilts he is offering are a good lot and bred to good boars for March, April and May farrow. If in the market for a good Hampshire sow write or visit Mr. Goodwine at once. Please mention The Homestead when writing.

Champion Yorkshire Hogs.

Mr. Thomas H. Canfield, breeder of large Yorkshire hogs, places an advertisement on this page of this paper that will be of considerable interest not only to breeders, but to farmers who want growthy, high quality hogs of the breeds named. Mr. Canfield writes concerning these hogs as follows: "I have the finest lot of gilts this spring that I have ever raised or seen anywhere. Eight of them are due to farrow in March, fifty-two in April, thirty-seven in May and thirty-one in June. These gilts are from nine to twelve months of age and will weigh from 225 to 375 pounds. I believe there is no branch of live stock that will pay the farmer better for the coming year than hogs. I expect to raise 500 registered pigs this spring, as we have seventy-five older brood sows to farrow in March, April and May. The demand for bred sows has been keen this spring and those who wish to take advantage of our special offer should write at an early date." Our readers should note the most liberal prices quoted in the advertisement and for further particulars write to Mr. Thomas H. Canfield, Box 7, Lake Park, Minn.

Bob Miller's Clydesdales and Percherons Arrive.

In a recent letter from Mr. R. O. Miller, Lucas, Iowa, dated February 23d, he writes as follows: "I just received my last importation of Clydesdale mares from Canada, and they all tell me that a better lot was never shipped out of that country. They are mostly four and five-year-olds, some of them with foal, and the most of them taken right out of the harness. There are several matched teams in this bunch and I will sell them right from \$300 to \$500 per head. I also have some splendid black Percherons on hand that I know cannot be beat in this country at \$1,000 per head. You can just say to your readers that I handle my own horses on my large farm, with no middlemen to share in the profits, and no firm living can sell stallions or mares any lower than they can be bought at my farm. Tell them to come and inspect these mares and stallions and I know they will not go back home without taking with them a pair of these mares or a stallion. I have some splendid Clyde stallions also, some of which have been winners in Canada." We have known Mr. Miller for years and we know that he only buys the best, and a more reliable horseman cannot be found doing business in the West. It will pay you to see these stallions and mares, and the sooner you get there the better chance you will have for selection. Kindly mention this paper when writing him,

GREAT COMBINATION SALE OF PERCHERON HORSES

TO BE HELD AT

SIoux CITY, IOWA, MARCH 23, 1910

70-HEAD-70

Consisting of 25 STALLIONS and 45 MARES, consigned from the following well known studs:

H. G. McMILLAN & SONS, ROCK RAPIDS, IOWA.
P. W. MOIR, ORANGE CITY, IOWA.
W. H. KERR, BENNINGTON, NEBRASKA.
O. D. HART, LEMARS, IOWA.
MUIRHEAD & BARR, BRADSHAW, NEBRASKA.

These parties are sending their tops to this sale, so the offering will be one of the best that will be sold this year.

If you want a pair of choice mares and fillies, or a young stallion ready for service, do not fail to attend this sale. For catalogs, address

J. B. McMillan, Mgr., Rock Rapids, Ia.

Cols. Woods, Jones, McGuire and Murphy, Auctioneers.

TOO LATE TO CLASSIFY.

PERCHERON, ENGLISH SHIRE AND BELGIAN STALLIONS

MR. FARMER—do you intend to purchase a stallion this spring? We have just received a new importation of 25 head of PERCHERON, ENGLISH SHIRE and BELGIAN STALLIONS. These stallions have never been shown to the public, but our sale barn containing this new importation will be thrown open to our customers on March 12th. If you want to get in on the ground floor and get your pick from this importation, you want to make arrangements to visit us at an early date. They are an extra lot of good, heavy-boned, draft stallions, ranging in age from two to five years and weigh from 1,700 pounds up. They are nearly all solid colors. We also have 40 head of the above named breeds imported last August and October. They are all first-class in every respect, both as to their breeding and general make-up and will please the most discriminating buyer. As to our prices, we will say that we will give prospective purchasers prices that cannot help but please, breeding and quality considered. We give a straight 60 per cent guarantee without any ifs or ands attached to it. SEND FOR OUR 1910 CATALOG. It is free for the asking. Our sale barns are located opposite the University State Farm. Offices in the Lincoln hotel.

WATSON, WOODS BROS. & KELLY CO., LINCOLN, NEB.



Large Yorkshires Champion Herd of U. S.

Special offering now 128 gilts, 9 to 12 months, guaranteed safe, due last of March to June, now ready for shipment; weight 200 to 375 lbs., prices f. o. b. \$40 to \$75 each, depending on size, quality, age and date of breeding. Also 20 sows of fall litters at \$25 each. Order early, as demand was never so strong.

Thos. H. Canfield, Box 7, Lake Park, Minn.

2 Polled Hereford Bulls

FOR SALE.

Double Standard, two years old.

W. H. CAMPBELL, GRAND RIVER, IA.

Polled Durham and Short-horn

COWS, heifers and young bulls. Herd bull, But-tonwood Marshall 17th 259321 X5012, 4 years old, for sale. Choice 2-year-old Poland China herd boar, P. S. & S. Barr, Box H, R. 5, Davenport, Ia.

HAMPSHIRE SWINE

I won champion on pen of Hampshire barrows, also champion on single barrow at the 1909 International Stock Show. Thirty sows bred for March, April and May farrow for sale. I am also breeder of Short-horn and Double Standard Polled Durham cattle, Bourbon Red turkeys, Pekin ducks and Barred Plymouth Rock chickens. Write me, JOHN GOODWINE, POTOMAC, ILLINOIS.

20 Duroc Gilts Bred 20 AT PRIVATE TREATY

Sired by King of Cols. 2d and G. C.'s Col. Bred to Elder's Wonder and F. E.'s Col. Also choice summer boars by same sires.

FRANK ELDER, GREEN, KAN.

Aberdeen Angus Bulls for Sale

I HAVE a splendid 2-year-old Trojan Erica, a 2-year-old Blackbird and Pride bull. Also Queen Mothers and several younger bulls at bed rock prices. John H. Fitch, Lake City, Iowa.

GABEL'S WORLD BEATER PIG FORCES

Write for our 30-day FREE trial offer. AGENTS WANTED. Address GABEL MANUFACTURING CO., HAWKEYE, IOWA.

LIVE STOCK AUCTIONEERS.

The National Auctioneering School of America

ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

The National Auctioneering School of America, ROOM 218, FUNKE BLDG., Lincoln, Neb.

MISSOURI AUCTION SCHOOL

One hundred and twenty-one students attended the January term, 1910. NEXT FOUR WEEKS' TERM WILL OPEN APRIL 4TH, AT OKLAHOMA CITY, OKLA. The tuition the same as heretofore, \$50.00 down and \$50.00 after you have made \$200 out of the business, no note required. Lifetime scholarship given.

AUCTIONEER JOKER, published monthly at 50c per year. Address: Trenton, Mo., until March 4th, after that date Oklahoma City, Okla.

H. L. Igleheart

Glendale, Kentucky,

Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

J. L. McILRATH

GRINNELL, IOWA.

Fine Stock Auctioneer

Duroc Jersey and Poland China hogs and Short-horn cattle my specialty. My customers my references. Ask them. Write me.

GEO. B. BUCK

SUNNY HILL, ILL.

LIVE STOCK AUCTIONEER

I AM thoroughly posted on all breeds of live stock. Breeder of Red Polled cattle and Duroc Jersey hogs. Write for terms and dates.

CAREY M. JONES,
Live Stock and Real Estate
Auctioneer,

2856 Washington Blvd., Chicago, Illinois.
Phone West 1228.

If you want to buy or sell a Farm, City Property or Subdivision, no matter where located, write for terms and dates.

W. K. HENSS, WAYLAND, IA.
LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

C. C. KEIL, Auctioneer,
GRINNELL, IOWA.

PEDIGREED STOCK A SPECIALTY.
20 YEARS' experience as breeder and auctioneer. Talk English and German. Write me at once.

LIVE STOCK AUCTIONEER

SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed.

W. F. STRATTON, CAMBRIDGE, IOWA,
Breeder Short-horn cattle and Duroc Jersey swine.H. S. and W. B. DUNCAN
CLEARFIELD, IOWA,
LIVE STOCK AUCTIONEERS

Thoroughly posted in pedigrees and sales cried anywhere. Write us for dates.

Geo. W. Dykes Live Stock
Auctioneer,
DANA, ILL.Geo. P. Bellows Auctioneer
Pedigreed Live Stock
Maryville, Mo.THEO. MARTIN
Live Stock Auctioneer,
Bellevue, Iowa.

LIVE STOCK ARTISTS.

A. V. LOCK, REMINGTON, INDIANA.
Live Stock Artist. Write me.

TOO LATE TO CLASSIFY.

GENDARME 43404

FIVE-YEAR-OLD Percheron stallion for sale: steel gray, low set, wide, out, close coupled, heavily quartered, with good bone and feet, fine style and action, and a good breeder. Come and see him, or write W. W. VAUGHN, MARION, IOWA.

Percheron Stallions and Mares

THREE, Clyde and French Draft stallions. Standard-bred stallions and mares. Registered Draft mares. (Decatur County).

E. P. Hamilton & Sons, Garden Grove, Ia.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality: are priced right. R. Wilkinson & Sons, Mitchellville, Ia.

DUROC Jersey bred sows for sale—by or bred to a son of Ohio Chief. Low prices to quick buyers. G. W. SPEARS, HEDRICK, IOWA.



FRED REPERT,

DECATUR, IND.

Live Stock Auctioneer.

Cattle Sales a
Specialty.....

Write for Dates and Terms.

ELWOOD J. PITTMAN
STERLING, ILLINOIS.

Fifteen years' experience
selling live stock.

Write for Terms and Dates.



N. G. Kraschel

MACON, ILL.

Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.

G. C. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere. Reasonable terms. Have pleased others; can please you. Write for Dates.



PLINY NICHOLS

WEST LIBERTY, IOWA.

Live Stock Auctioneer

SALES made anywhere. Reasonable terms. I also breed Poland Chinas and Short-horns.

O. L. MOSSMAN, MASON CITY, IA.
LIVE STOCK AUCTIONEER

Thoroughly posted as to pedigrees and values. Write for dates. Terms reasonable.

W. D. STOLLER, Auctioneer
Live Stock a specialty. Address R. 6, Vinton, Ia.A. C. Manifold Auctioneer
Tarkio, Mo.
Pure bred sales specialtySILAS ICO, Indianola, Iowa
Live Stock Auctioneer. Write me for date.

RED POLLED CATTLE.

SEAMAN'S Red Polled Cattle, 50 h'd., the equal of any ever sold in Ia. 7 yr. and 2-yr.-old bulls, 40 to 50 cows and heifers of the greatest milking families known to the breed. Part of the old W. H. Seaman herd, Davenport, Ia. Visitors can be shown 125 head of good Red Polleds as can be found in U.S. Gus C. Seaman, R. 5, Davenport, Ia. Telephone to farm.

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

POLLED DURHAM CATTLE.

Clovermead Polled Durhams for sale. A few bull calves, cows and heifers; quality and prices right. Wm. Barrans, Lenox, Iowa.

Ottumwa W. B. Bonfield, Ottumwa, Iowa, breeder of Double Standard Polled Durhams. Bulls and heifers for sale. Fair prices.

HEREFORD CATTLE.

Polled HEREFORDS

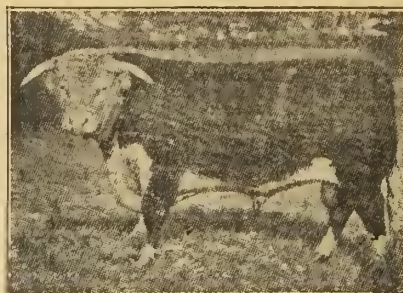
THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

J. W. WYANT, BLYTHEDALE, MISSOURI

15 HEREFORD BULLS

FOR SALE, from 12 to 30 months old, sired by Advance 129531 and McKiuley 95219. Address Z. T. KINSELL - MT. AYR, IOWA.

HEREFORD CATTLE.



EMANCIPATOR 5TH 821235.

We Are Offering Herefords

MALE OR FEMALE

of the choicest breeding and individuality. We meet anyone in price who will furnish the same quality of goods. Write us your wants.

CARROTHERS BROS., RYAN, IOWA.

Polled Herefords

WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.

Warren Gammon & Son, Des Moines, Iowa.
Originators of Polled Herefords.

HEREFORD BULLS

I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address

A. F. HAGER, AVOCA, IA.

HEREFORD Cattle

GOOD young cattle, bulls or heifers, for sale. Herd headed by Improver's Hesiod 107727. Blood lines of popular strains.

D. S. O'LEARY - IOWA CITY, IOWA.

B. W. GREGORY, HARLAN, IA.
Breeder of HEREFORD Cattle

I have a few choice young bulls for sale at private treaty. Write, or come and see me.

GUERNSEY CATTLE.

SUNNY VALLEY
GUERNSEYS

Males and Females for Sale
WRITE TODAY.

W. M. JONES, WAUKESHA, WIS.

GUERNSEYS

FOR SALE—I am overstocked!

offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

BROOK HILL FARM
Pure-Bred Guernseys

FOR SALE Bulls from three to fifteen months of age. Dams have made from four to seven hundred pounds of butter in one year, official test. Send for sale list.

David W. Williams, Supt.,
GENESEE DEPOT, WISCONSIN.

WAUKESHA
GUERNSEYS

THE herd numbers about 90 head. We are breeding for production and at this time are offering a few males and females at reasonable prices. If you are interested in Guernseys write or call upon

A. W. and F. E. Fox, Waukesha, Wis.

BONNY BOY
GUERNSEYS

I have a few young bulls for sale at this time. They are from some of my best milking dams. Address

RALPH TRATT, WHITEWATER, WIS.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 9386, a son of Stranford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinchurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale.

Ben Clark & Son, R. 1, Whitewater, Wis.

WANTED Guernsey cow and heifer. I am in the piano business and will exchange a first-class new piano, worth \$350, for a first-class registered Guernsey cow or heifer. Must be a good individual. Address T. B. Erwin, Britt, Iowa.

JERSEY CATTLE.

THE
EIGHT PILOTTA COWS

In our herd averaged 7,514 pounds of milk last year. It's in the blood. The six-months son of Pilotta's Ida and Pedro's Golden Fern for \$50. He's bound to do good.

SUNNY PEAK FARM, Elm Grove, Wis.

King Sappho King Jerseys

WE offer a few mature cows for breeding purposes, a few young cows and heifers and a magnificent lot of young bulls sired by King Sappho King 65262 and Loretta D's Champion Son 77002.

J. Q. Emery & Son, Edgerton, Wisconsin.

VALLEY FARM

IS offering a few yearling bulls, sired by Blue Bell's Eminent 74774. Also a few bull calves. These are a fine bunch and will be sold cheap. For particulars, write Fred Stubley, Black Earth, Wis.

GALLOWAY CATTLE.

ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otee and other cows equally well known. Write your wants; we can suit you. A. G. Abney, North Loup, Valley Co., Neb.

GALLOWAYS

HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address John C. Gahring, R. 1, Box 29, Marengo, Ia.

AYRSHIRE CATTLE.

Ayrshire Cattle

YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. Fred Tschudy & Sons, Monroe, Wis.

HOLSTEIN-FRIESIAN CATTLE.

PURE-BRED
HOLSTEIN CATTLE

Are the largest and most productive all-round breed of cattle in the world. To back up this statement just read on: 2,551 pure-bred Holstein cows of all ages were tested for butter fat in 1908 and 1909 by state experiment stations. They averaged to yield 13.63 pounds of butter in 7 days from 395 pounds of milk, the greatest showing ever made by any breed. Now if Holsteins will do this, they ought to be the cows for you. Remember they will return 50 per cent on their food investment. Can you beat that?

"Holsteins are the most profitable cattle."

Send for Free Illustrated Booklets

HOLSTEIN-FRIESIAN ASSOCIATION

113 American Bldg., Brattleboro, Vt.

NOTICE

50 Holstein Bulls for Sale

20 From A. R. O. dams and rest from dams that are all high-class, registered cows. These bulls are in age from 5 to 14 months; well-grown and first-class individuals, from dams that are kept for profit. These bulls are sired by two sons of Homestead Jr. DeKol, the sire of Grace Fayne 2d's Homestead, world's champion cow. Balance by Johanna Rue, Sarcastic Lad, 12 A. R. O. daughters and close up in breeding of Colantha 4th Johanna. Prices low according to stock. Mention this paper when inquiring. For information, address

L. G. LEGLER, JUDA, WISCONSIN.

MONONA FARM HERD

OF pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

F. W. ALLEN, MADISON, WISCONSIN.

Registered HOLSTEINS

10 Bulls fit for service.

Cows and heifers any age.

W. R. Gates, Fort Atkinson, Wisconsin.

MAPLE LAKE
Holsteins

MALES and females for sale. Herd numbers eighty head. Tuberculin tested. We guarantee our stock. T. J. BARMORE, Monroe, Wis.

ELLIOTT'S Holstein-Friesians

YOUNG bulls from A. R. O. dams, for sale. They are our own breeding and will prove money makers for you. Buy the best and succeed.

JESSE R. ELLIOTT, WOODWARD, IOWA

Holsteins for Sale Wish to sell small herd, part registered and part high grade. Address C. A. Gaer, Wisner, Nebraska.

HEREFORD CATTLE SALE

TO BE HELD AT MY FARM NEAR
SLATER, IA., TUESDAY, MARCH 29, 1910

HAVING become overstocked with cattle, I am compelled to take this means of reducing the numbers of my herd to the accommodations of the farm. I have, therefore, cataloged the entire crop of bulls on the farm, together with a splendid selection of females. I believe the offering is one which buyers will appreciate on sight. They carry the very best strains of blood of the breed and are otherwise right. A large proportion of them are the get of Brigadier 10th; he a grandson of Lamplighter and one of the most intensely-bred Don Carlos bulls in existence. The sale will be held on the farm four miles southeast of Slater and one mile west of Thompson station, on the Des Moines, Ft. Dodge interurban. Col. H. S. Duncan, auctioneer. Send mail or telegraph bids to C. C. Carlin, of The Homestead, in my care. For catalogs, address

E. O. NERVIG, SLATER, IA.

HOLSTEIN-FRIESIAN CATTLE.

Rock Brook HOLSTEINS

I have a few choice young bulls for sale that are fit to head good herds. Also a few choice cows and heifers for sale.

HENRY C. GLISSMAN, Station B, OMAHA, NEBRASKA.

HIGH GRADE HOLSTEINS

COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want.

RIVERSIDE STOCK YARDS, ALGONQUIN, ILL.

Registered Holsteins (Established 1876.)

THE two greatest sires of the breed, Paul Beets DeKor and Hengerveld DeKor have more sons and daughters in this herd than any herd in the world. Plenty of stock for sale.

R. E. HAEGER, ALGONQUIN, ILLINOIS.

20 HOLSTEIN BULLS

From two weeks to eight months old. Fashionable breeding, large milking dams. Sir Netherland Cornucopia, whose two nearest dams average thirty pounds butter, and six nearest dams twenty-five pounds in seven days at head of herd. Prices moderate. Send for sale list.

WOODLAWN FARM, STERLING, ILL.

HOLSTEINS

LAKE MILLS, WISCONSIN

100 HEAD to select from, bred from the leading strains. Parties wanting bulls or females to improve their herds, write us, we can supply you. High-grades in car lots picked up on short notice.

WM. EVERSON & SONS

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Donahoe, of Holbrook, Iowa, and C. Leahy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 20893 heads the herd. The following families are represented: Prides, Blackbirds, Ericks, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

INVERNESS ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address,

ED. T. DAVIS, IOWA CITY, IOWA

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfoill Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfoill Thicket, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Herdsman.

CARLOAD Angus Bulls

Sired by Scottish Hero 52494 and Glen's Priteno 91696. In ages from 18 to 20 months, in good, useful condition for the buyer. If you want bargain prices on bulls write me.

JOHN E. GRIFFITH, WASHINGTON, IOWA.

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by imported Ideal of Stranden 28155 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. R. Wilkinson & Sons, Mitchellville, Ia.

ANGUS BULLS, COWS and HEIFERS

THREE bulls for sale; also three bull calves. Dropped last August and Sept. They are sired by ten bulls and out of one of the best cow herds in the state. My cattle have size, breeding, quality. Call on or address A. G. Messer, Grundy Center, Ia.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, sired by Muplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equester; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

ALFALFA HERD ABERDEEN ANGUS

Ericks, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

SHORT-HORN CATTLE.

WHITE BROS.

CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

SCOTCH BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.

SHORT-HORNS and PERCHERONS

We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices.

SMITH & BARNHART, South English, Iowa.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.

W. J. HATHER, ORD, NEBRASKA.

SUMMIT HERO OF SHORT-HORNS

20 Short-horn bulls for sale, of serviceable age; all good colors and choice breeding, and well grown. Prices right. Lee & Prentiss, Vermilion, S. D.

Six Short-horn Bulls for Sale

WE are offering six head of good young Short-horn bulls for sale, five reds and one roan. Good ones and at reasonable prices. Write us at once. H. Pritchard & Son, Walnut, Iowa.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

PUBLIC SALE OF WALNUT HALL SHORT-HORNS

TO BE HELD ON MY FARM AT URBANDALE
DES MOINES, IOWA,

WEDNESDAY, MARCH 16

Take Urbandale Car at Waiting Room to End of Line,
Which Stops at Corner of Farm.

THIS consignment includes **34 HEAD** of the best cattle in my herd, and **14 HEAD** from that of R. G. McAvoy of Valley Junction. It is a good lot of breeding cattle, six bulls and 42 cows and heifers. All but eight or ten of the females are of breeding age, and are either safe in calf or have lusty calves at foot by Scotch bulls of fashionable breeding. We are proud of these calves. They show the real value of the cows. Nearly one-half of the entire number of Scotch breeding, belonging to such popular families as the Lavender, Queen of Beauty, Duchess of Gloster, Missie, Mysie, Secret, Miss Ramsden, Emma and Nerissa. The others are Young Marys, Miss Hudsons, Mazurkas, and like old-time American favorites. Four of the bulls are Scotch, of the Ury, Marr Bessie, and Duchess of Gloster tribes. They are right every way. Sale on the farm, near end of Urbandale car line. Catalogs are now ready, and may be had on application to address given below.

O. O. SMITH, DES MOINES, IA.

Col. Geo. P. Bellows, Auctioneer.

SHORT-HORN CATTLE.

Choice Short-horns at Bargain Prices

CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fame 197980, and bred to my Cruickshank Flora bull, Narcissus King 239586. One extra good bull 16 months old by Royal Fame; 14 younger bulls, mostly by Narcissus King. A choice lot to select from at bargain prices; singly or car load. Address

R. J. COX, GRINNELL, IOWA.

Three Pure Scotch Bulls FOR SALE

TWELVE to 16 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight.

T. A. DAVENPORT, BELMONT, IOWA.

S. H. THOMPSON'S SONS

IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

Wildwood Scotch and Scotch-Topped SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale, 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Bravith Lad. For description and prices, address

W. W. VAUGHN - MARION, IOWA.

Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all red; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live-and-let-live prices.

R. M. Young, Cook, Johnson Co., Nebraska.

SCOTCH BULLS

I have for sale several richly bred and splendid individual bulls, reds and roans. The herd is headed by the Scotch bulls, Ringmaster and Choice Prince. Nine straight Scotch bulls, two Scotch topped, now ready for service. Farm adjoins town. Address

G. H. GEORGE - MONTICELLO, IOWA

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns.

HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address

GEO. H. WHITE, EMERSON, IOWA.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

35 SCOTCH SHORT-HORN BULLS

FOR SALE—From one to two years old, of the blocky, beefy type; herd leaders also. 25 heifers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address

L. BARR & SON, DAVENPORT, IOWA.

Good Scotch Bulls for Sale

I AM offering a splendid lot of young Scotch bulls for sale, sired by American Goods, a son of Imp. Choice Goods and Baron Kear 3d. Strictly all right and prices reasonable.

W. H. McLAUGHLIN, SHELBY, IOWA

BATES BULLS

COME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd leaders, bred from milking strains. Send for my bull catalog. Address

O. M. HEALY, BEDFORD, IOWA.

CHAS. C. NORTON, CORNING, IOWA,

Has for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Plain View Stock Farm

6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address

GEO. A. HANS, NEWTON, IOWA.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Write me.

Wm. M. Smith & Sons, West Branch, Iowa.

BERKSHIRE SWINE.

PRINE FARM BERKSHIRES

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address

George S. Prine, Oskaloosa, Iowa.

POLAND CHINA SWINE.

**WELLMAN HERD OF POLAND CHINA HOGS**

AND SHORT-HORN CATTLE.
25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd leaders a specialty. 10 head of choice young bulls, 8 to 16 months old; all deep reds; sired by Masterlode 265763, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address **C. F. SHAFER, R. R. 4, WELLMAN, IOWA.**

50 LARGE-TYPE, BIG-BONED POLAND CHINA SOWS

THESE sows are sired by Hadley, P. W. Grant and Jumbo. They are bred to Hadley and Victor (he by Big Victor, second prize aged boar at Nebraska State Fair, 1909). Choice tried sows, 350 to 400 pounds, \$50 to \$75. Fall yearlings, 300 to 400 pounds, bred to farrow March and April, \$45 to \$75. Spring gilts, bred to Victor for April and May farrow, 200 to 260 pounds, \$32 to \$50. They are heavy-boned, smooth, well-grown sows, sired by \$100 and \$150 boars, bred to the same kind, and as good as are grown. Sold 85 boars and sows this fall at an average of \$40. Shipped to eight states. Sold 1,000 for breeders in seven years. Careful selections made for mail orders. Pedigrees furnished at time of sale.

F. W. MCINTYRE - R. F. D. 5 - RED OAK, IOWA.

PODENDORF'S BIG-TYPE**Poland China Bred Sows**

I AM offering a splendid lot of strictly big-type, with quality combined, Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.

A. J. PODENDORF, LOGAN, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corroter. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. **HELD BROS., HINTON, IOWA.**

Poland China Bred Sows

I have a few choice bred sows and gilts for sale at private treaty. Address

D. C. LONERGAN, Florence, Nebraska.

PINE VALLEY STOCK FARM

HEREFORD cattle and Poland China hogs. We have sold out of hogs for this year, but have a few extra good bulls sired by March On 16th, Weston Anxiety; other great bulls. Come, see us; write us your wants. Prices right. Chain & Keep, Atlantic, Ia.

CHESTER WHITE SWINE.

Model Herd of Improved Chester Whites

40 CHOICE gilts bred for early farrow. Bred to Chickasaw Chief 2d 5465, champion Iowa State Fair, 1909, and Minnesota State Fair, 1908; and Modeler 13235, winner of first at Iowa, Minnesota, Wisconsin, Kentucky and Illinois, 1906. Everything guaranteed as represented. **W. F. HEMMERLING, DIKE, IOWA.**

CHOICE FALL BOARS FOR SALE

THEY are of the same prize-winning blood as those with which I won 141 prizes at five big state fairs of 1909. Low prices to quick buyers, as I must make room for the spring crop. **D. H. LEWIS, GENESE0, ILL.**

25 FALL PIGS FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Alcedo Belle and Delta Girl. These pigs will be priced worth the money. **E. L. NAGLE & SON, Deep River, Iowa.**

CROSIER'S O. I. C. BARGAINS

CHOICE bred sows and gilts bred to White Wonder for March, April and May farrow. Also four males. Priced at the bottom. Write now to **C. W. CROSIER, JUNIATA, NEBRASKA.**

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address **S. J. Philson, Harlan, Iowa.**

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. **Fred Ruebush, Sciota, Ill.**

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. **E. J. Trumbauer, St. Charles, Iowa**

Mehring Choice O. I. C., strong-boned, smooth, well-quartered July boars for sale. Some fine Shropshire ewes. **H. C. Mehring, Manson, Ia.**

When writing mention this paper.

HAMPSHIRE SWINE.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**

**WAYSIDE HAMPSHIRE**

WE bred the load of barrows that won first in class over all breeders at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead. **MIKE SHARP, COAL VALLEY, ILL.**

STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, **E. C. STONE, ARMSTRONG, ILL.**

**HAMPSHIRE Swine**

WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

25 Head of Spring Boars

5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable. **G. DeKALB - DeKALB, IOWA.**

The "STAY THERE"

Aluminum Ear Markers are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address **WILCOX & HARVEY MFG. CO., Dept. A, 325 Dearborn St., Chicago, Ill.**

When writing mention this paper.

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE

My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both champion-ships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me. **A. L. GOODENOUGH, MORRISON, ILLINOIS.**

A. L. GOODENOUGH, MORRISON, ILLINOIS.

DUROC JERSEY SWINE.

DUROC JERSEY BRED SOWS

EIGHT March gilts sired by J. E.'s Chief, bred to Investor and Ridge Wonder by Prince Wonder for March and April farrow; weight 250 to 300 pounds. Price, \$40 to \$50 to quick buyers. I will also sell J. E.'s Chief. Write for description at once; mention paper.

J. E. REES, GRAND RIDGE, ILLINOIS.

WE HAVE HAD A VERY GOOD BOAR TRADE

AND still have a few good Col. males left, and they have plenty of quality. One sired by King Solomon II, one sired by Tientsin 2d, the State Fair winner, one spring and one fall yearling sired by old Tientsin 17261. I could spare Tokio 79013, one of the best sons of Tientsin, a line bred Tolstoy boar, and has proven himself a splendid breeder, but owing to having so much stuff related to him, will spare him at a reasonable price; in fact, all the boar stuff we have will go at a very moderate price. We have quite a number of August and September Col. pigs. We will sell cheap, so come on and let us fit you out with a Col. boar; prices right. **A. L. MOSSMAN & SON, RADCLIFFE, IOWA.**

10 GOOD DUROC SOWS BRED TO ALSO 2 CHOICE BOARS BY KING OF COLS. II

ALL are of our choice breeding. Sows bred to G. C.'s Kan. Col. by G. C.'s Col. and Col. C. by Kan. Col. II. and out of Red Princess. Write or come and see them. **Chapin & Nordstrom, Green, Kan.**

BRIGHTON FARM DUROCS

A LIMITED number of aged sows, fall and spring gilts for sale. Descendants of Tolstoy, Pericles, A. Achiever. Bred for March and April farrow to Walter Model by Golden Model 2d and Gen. Moon, a grandson of Crimson Wonder I Am. For prices and further description, write to **HOFFMAN & CHAPMAN, WASHTA, IOWA.**

40 HEAD DUROC JERSEY BROOD SOWS FOR SALE

Sired by Crimson Critic, I Am Advance, Belle's Chief I Am and other noted boars. Bred to S. Harding's King of Col. and my other noted herd boars. 12 fall boar pigs for sale that are show prospects. Write me about these at once. Address **R. J. HARDING, MACEDONIA, IOWA.**

DUROCS \$22 EACH

WE are sold out of large gilts and old sows, but have some choice younger gilts, combining the blood of Orion, Crimson Wonder, Tip Top Notcher, etc. They will weigh from 160 to 180 lbs., bred for April and May farrow. Will crate and deliver to express company as long as they last at above price. They are bargains. Get your order in before too late. Same price, \$22 apiece for one or a dozen. **WOODLAWN FARM, STERLING, ILL.**

C. W. Huff, Mondamin, Ia.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address **C. C. Cushman, Mgr., Chillicothe, Ohio.**

MODEL TOP

HEADS herd, assisted by King Wonder. Both or these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

HIGH-CLASS DUROC JERSEY BRED SOWS FOR SALE

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel Boar. These are good. Will not hold a sale and am selling them privately. Address **J. D. McDERMOTT, WIOTA, IOWA.**

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY. Write Your Wants.

Elder's Durocs

KING OF COLS. II, G. C.'s COL. and 30 of Grant Chapin's best brood sows were purchased and from these I have 125 choice spring pigs. Herd boars and choice breeding sows will be my specialty. Write your wants. **FRANK ELDER, GREEN, KANSAS.**

B. & C.'S COL. Grand champion, Illinois and Iowa, 1909. Crimson Wonder II, grand champion, Nebraska, 1908, and McNeil's Model, champion under year, Ohio, Indiana and Illinois, 1907. Sows all sold. A few good boar pigs. Address **Ed. A. Baxter, Pawnee, Illinois.**

R. L. Coker, Carlinville, Illinois.

DUROCS

A LIMITED number of choice gilts, granddaughters of old Kant Be Beat for sale, bred to Model Chief Gold, a full brother to Model Chief 2d; bred to farrow in March and April; will be priced worth the money. Write

J. W. TROY & BROS., ROSE HILL, MAHASKA COUNTY, IOWA.

CHIEF'S COL. BOAR PIGS

OUT of the great brood sow, Helen Blazes, and sows by Ohio Chief, Prond Advance and other great boars. Pigs ready to ship. Address for price and description, **H. E. Browning, Hersman, Illinois.**

H. E. Browning, Hersman, Illinois.

Bred SOWS

WE have thirty head of well-bred Duroc Jersey sows, to farrow in March, April and May for sale, at \$35 to \$50. **White Bros., Peery, Iowa.**

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banner 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows. **VON SEGGERN BROS., WISNER, NEB.**

25 DUROC JERSEY BRED SOWS FOR SALE

Sired by King Solomon II, Advance's Choice; S others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once. Address **A. Lentz & Son, Pierson, Iowa.**

Duroc Jersey Gilts

A FEW choice gilts of good breeding, out of A matured sows, and bred to Royal Advance \$1963, Royal King and Model Duke (son of Golden Model 2d). **C. E. Longnecker, Maxwell, Iowa.**

Crimson Wonder I Am

SIX winter boars by this great sire now ready to go out. All of them crackers. Three fall boars by American Crimson Wonder. Nothing but show yard quality to offer. **U. G. Davidson, Scranton, Iowa.**

BRED sows for sale; safe in pig by Crimson Rambler, Model Chief 9th and Crimson King. Prices reasonable; sows guaranteed. **John Justice, Ankeny, Ia.**

MIDLAND Durocs—8 gilts and 2 sows, bred for April farrow, for sale. The big-boned, growthy kind at moderate prices. **S. J. Butts, Mason City, Ia.**

ORNAMENTAL Herd of Duroc gilts, bred to farrow in March and April; \$25 to \$40. For particulars, write **S. S. Krebil, Donnellson, Iowa.**

HORSES AND JACKS.



ROAN'S GREAT SALE OF MAMMOTH JACKS AND JENNETS

Cloverleaf Valley Jack Farm, La Plata, Mo., Tuesday, March 15
25 JACKS—A HIGH-CLASS LOT—20 JENNETS

I WILL have in this sale 20 head of jacks all ready for service, a lot of them only 3-year-olds; the big, heavy-boned kind, with lots of head and ear; well broke to serve, with a lifetime of usefulness before them. Will also have 20 head of first-class breeding jennets, the majority of them safe in foal. Sale at Fair Grounds, inside city limits. La Plata is on the main line of the A. T. & S. Fe Ry., 135 miles east of Kansas City; also on Wabash, 40 miles north of Moberly. Write for catalog, Cols. Cross and Harriman, Auctioneers.

G. C. ROAN, LA PLATA, MO.



Shires, Clydes, Belgians, German Coachers

OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing these where every farmer can buy. Come and see us. Address **Laben Harrison & Son, Prescott, Iowa**

JOHN MORAN NEVADA, IOWA.

IMPORTER AND BREEDER OF

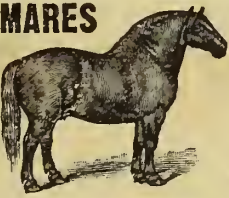
PERCHERON Stallions and Mares

At the present time I am offering twelve head of grand imported mares and three imported stallions at prices that will look attractive to buyers. If you are intending to buy come and see these stallions and mares. The mares are from yearlings up to four years of age, both blacks and grays, and matched pairs can be selected. For good goods at the right kind of prices I can satisfy your wants. Come and see me.

PERCHERON MARES BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

C. G. GOOD,
Ogden, Iowa.



BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$500 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

DUROC JERSEY SWINE.

Grimson Wonder Again Fall Boars for Sale

SOME great show prospects among these. Also some great herd boars. These are big and smooth, and priced to move. Also some good sows bred to C. W. A. for May farrow.

H. S. ALLEN, RUSSELL, IOWA.

Helen's Chief High Notcher

Glad Col. and King's Col. head my herd of Durocs. I will sell King's Col. by King of Cols. Write for price.

M. A. KRASCHEL, MACON, ILLINOIS.

Duroc Jersey

Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

ARTHUR L. PARKS, LELAND, ILL.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

Reserved Champions

PERCHERONS AND BELGIANS



2 IMPORTATIONS, 1909, 2

Do you want a first-class stallion or mare? Sound, big bone, size, wide back, true action. PRICES LOWEST. TERMS MOST LIBERAL—GUARANTEE GENUINE. Come and see for yourself GOODS that are a pleasure to show. Trains nearly every hour in all directions. Interurban from Davenport, Iowa. Stables in town. For further information, write us.

CHAMPLIN BROS., CLINTON, IA.

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.

HORSES

PERCHERONS,
Belgians, German Coachers

AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Run (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.

Jacks and Stallions AT QUIET GLENN

ONE or a car load of big black jacks, the kind you want and that will do your country good; no small ones among them. Choice of three good young Percheron stallions. Come at once; write for catalog.

G. M. SCOTT, REA, MO.

Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales.

L. A. MATERN, - WESLEY, IOWA.

30 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address GEORGE W. BILBO, CRESTON, IOWA.

Percheron Stallions Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. Will F. Hooker, Northboro, Page Co., Ia.

When writing to advertisers please mention this paper.

New Importation of Percheron, Shire and Belgian Stallions

EXTRA weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$500 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs.

We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.

DO YOU WANT FRONT ROW?

WE are representing Jack Breeders' Association. They are guaranteed in every way; 14 to 16 hands high, 3 to 7 years old; black, with white points. We represent 100 jacks of the best. Can save you \$300 to \$500 buying from breeders direct.

C. L. MOORE,
Bowling Green, Missouri.

Percherons and Belgians

I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14½ to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop.,
EOLA, MO. Pike Co.

Percherons and Belgians

THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY."

Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.

W. J. BUTLER, OTTAWA, ILLINOIS.
Long Distance Phone.

Percherons for Sale

Fifty head of imported and home-bred mares, two to six years old, bred to the best sires. Ten head of stallions, one to three years old. They are the right kind and priced right. Come and see and you will buy.

WELCH & PECK, LEXINGTON, ILL.

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$650 each.
A. Latimer Wilson,
Creston, Iowa.

FOR sale—A Morgan stud colt, coming three years old; color bay; a fine individual and priced reasonable. Come or write F. Bowman, Eldora, Iowa.

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. Ben Bohlander, R. 2, El Paso, Ill.

Dunham's Percherons

46 splendid stallions and mares arrived Feb. 9th. These, added to our present stock, afford intending purchasers the finest selection in America. If you want the best horses—horses with bone, quality, action and best breeding; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit Oaklawn. Renowned for nearly 50 years as the best. Catalog shows the place and the horses.

W. S., J. B. & B. Dunham, Wayne, Ill.

AT AUCTION

MARCH 16, AUBURN, NEB.

40 IMPORTED SHETLAND PONIES

Mares in foal, fillies, stallion and geldings, from yearlings to 6-year-olds; well bred and good individuals; personally selected by M. J. Clarke, from the best herds in Scotland and Shetland. Send for catalog. Col. Woods and others, aucts. R. C. Boyd, clerk. Clarke Bros., Auburn, Neb.

Stallions and Mares ...For Sale...

THE Iowa State College is offering for sale two choice Clydesdale stallions, coming two years old; one Clydesdale mare, five years old, and one imported Shire stallion, five years old. Address DEPARTMENT OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON,
BATAVIA, IOWA.

Percheron and Belgian STALLIONS and Mares

Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot, ½ mile north of C. M. & St. P. R. R. depot. E. H. Knickerbocker & Son, Fairfax, Iowa.

Large HeavyBoned Mammoth Jacks

FOR SALE; from 15 to 16 hands high, for \$350 and upwards. Farm located 8 miles west of Cedar Rapids

JOHN HENRY
FAIRFAX - IOWA

FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home-bred registered draft stallions \$200 to \$650.

FRANK L. STREAM, Creston, Iowa.

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. ½ ton type; Poland China sows. J. J. BURRILL, Cedar, Iowa.

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

BROOKMONT



THE GREATEST EVENT IN THE HISTORY OF THE
BREED OF RECENT YEARS WILL BE THE SALE OF



200-HEREFORDS-200



THE FLOWER OF OUR HERD OF 1,000 HEAD, AT PUBLIC
AUCTION TO BE HELD TUESDAY AND WEDNESDAY,

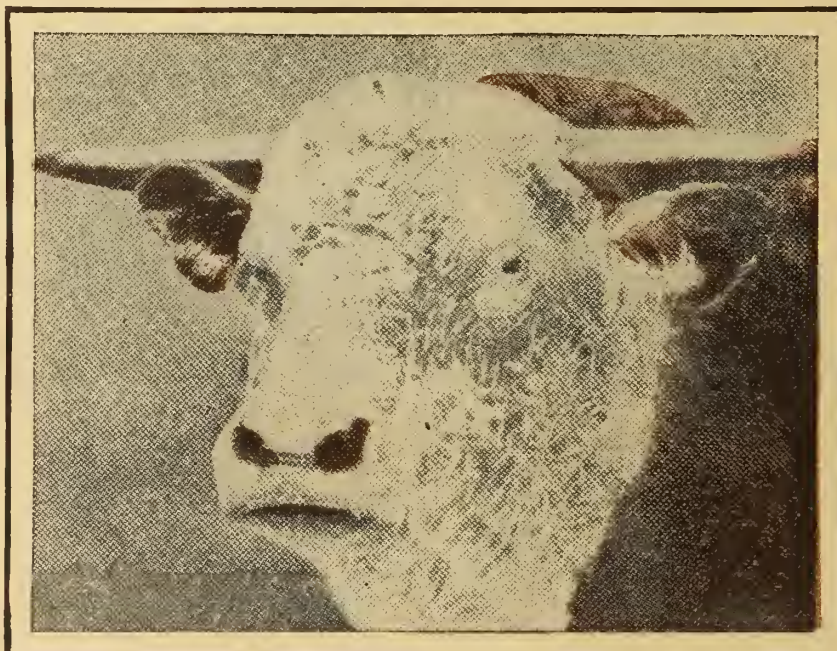


MARCH 15 AND 16, 1910, AT ODEBOLT, IOWA

Breeders who recognize the value of the blood represented by Imp. March On, Sir Albany, Sailor, Brookmont Actor, Brigadier March On and March On H. will be interested in the splendid

BULLS

that have been cataloged for this occasion. They range from 10 months to two years in age and are lusty, well-grown fellows, rightly raised and ready for immediate service.



Farmers who know the importance of having their farms stocked with cattle of the true beef form, must find this sale one of the greatest opportunities of the age to secure mature breeding

COWS

and heifers that are really second to none in any herd, not only because of their royal pedigrees, but because they are of highest individual quality and rare producing animals.

THE bulls that have been selected for this sale are right in every way, and among them will be animals suited to the wants of those who are looking for herd headers as well as those who want them in numbers, even up to car-load lots. The matured females are of good producing sorts, regular breeders that are good enough milkers to raise their own calves. The grand lot of young heifers in this sale promise to have the same useful character. The catalog gives the breeding in full. The man who contemplates founding a herd of this great breed can find no chance such as that offered by this sale. Brookmont offers the choice of its best.

Every animal in the Brookmont herd has recently been subjected to the tuberculin test and all have been pronounced to be absolutely free from tuberculosis

To A. E. COOK, Odebolt, Ia.

I expect to be with you on March 15 and 16, 1910.

Signed _____

Town _____

State _____

Homestead.

Buyers who secured cattle at our previous sales have reported splendid success and great satisfaction with them. An invitation is extended to the general public to visit Brookmont, inspect the farm and the herd and investigate the Brookmont seed corn emporium—the greatest exposition of seed corn breeding in the Central West. Ample accommodations will be provided for both sales, everybody will be taken care of. We want you to become our guests, whether you are interested in cattle or not. Fill out the attached coupon and mail at once. Catalogs are now ready. Auctioneers—Cols. Woods, Reppert and Teaquist.

A. E. COOK, ODEBOLT, IOWA.

HORSES.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

Stallions and Mares

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.



HENRY LEFEBURE, FAIRFAX, IOWA.

CLYDESDALE HEADQUARTERS

McLay Bros., Janesville, Wisconsin.

NEW IMPORTATION--18 HEAD STALLIONS AND MARES--DUE MARCH 12

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine Internationals than any competitor, and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them, too. Why above all today does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.**

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS



WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

**FORD & HARRINGTON, PARKER, SOUTH DAKOTA.
FAIRBURY, ILLINOIS.**

Percheron and Belgian STALLIONS AND MARES

OUR third importation arrived January 13th; all with quality, size and action. Stallions from \$800 to \$1,000, a few show horses a little higher. Best mares \$650 in foal. I can save you from 20 to 100 per cent on imported horses the way business is done in this country. Every horse is sold with a reliable pedigree and guarantee. Seward is 29 miles west of Lincoln, Neb.

JOSEPH ROUSSELLE & SON - SEWARD, NEBRASKA



Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1908 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.



SPECIAL PRICES FOR FORTY DAYS 50---IMPORTED STALLIONS AND MARES---50

To make room for an early importation I will make special prices on a stable full of high-class Shire stallions. The weighty sort, 1,800 to 2,050, three and four years, best of legs and feet; no woolly legs nor flabby fat. Write me for particulars. **GEO. E. BROWN, Aurora, Ill.**

HORSES.

FRANK IAMS'

new importation of draft stallions and mares arrived September 20, 1909, by "Iams' own special train" of "ten express cars." They are "business propositions," that "jar the cherries" on a "wide-awake" "horseman's hat." Iams' "Peaches and Cream" stallions and mares are "eye-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. Iams makes buyers

"SIT UP AND TAKE NOTICE"

"Ikey Boys" get into Iams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 27 years' successful business. He bought and sells better horses cheaper than ever. Mamma, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at Iams' Iams has

200=PERCHERONS AND BELGIANS=200



two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "toppers" at \$1,000 and \$1,400 (few higher), mares \$700 to \$1,000, so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000 SAVED AT IAMS' \$1,000

Ikey, what "a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no stallion salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams' competitors "holler." He is knocking "high prices" out of the Xmas tree. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His \$1,200 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by one-half million dollars.

Write for Million Dollar Horse Catalog, Greatest on Earth

REFERENCES—ST. PAUL STATE BANK AND CITIZENS' NATIONAL BANK,

ST. PAUL, NEBRASKA.

PINE RIDGE PERCHERONS

ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.



**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.**

IMPORTED PERCHERON MARES

Bred to Carnot 66866, International Champion of 1909.

Imported PERCHERON STALLIONS

2-Year-Olds; 3, 4 and 5-Year-Olds; Blacks and Grays.

If you want horses with lots of bone, quality, style and action I can please you. My January importation is now in my barns. I would like for you to see the mares bred to and heavy in foal to Carnot. Get my prices before buying. Only one yearling stallion of my entire importation is reserved. Come and see my 1910 importation.

S. J. MILLER, Kirksville, Missouri.



OUR LAST IMPORTATION OF

IMPORTED PERCHERON Stallions and Mares

LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



PERCHERONS AND PERCHERONS ONLY ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 18th. **Ernest L. Humbert & Son, Corning, Ia.**



HORSES.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians so we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every ribbon offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about American winners. We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES



We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on

yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

PERCHERONS

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA. C.O. Keiser, Keota, Iowa

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C. B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

Maasdam & Wheeler

Breeders and Importers of

PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

GEO. W. SOUERS & SONS, HUNTINGTON, IND.

IMPORTERS OF

PERCHERON AND BELGIAN ...HORSES...

If you want to see the best bunch of Belgian stallions to be found anywhere in the West, come to our Sioux City branch barn. Our guarantee is iron clad and there is no importer in the United States who can beat our terms and prices. A visit will convince you. Write for our 1910 catalog. Barns at the Sioux City Stock Yards.

Herbert E. Bray, Manager, Sioux City, Iowa



The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on Imported Clydesdale Stallions and Mares; also a few choice bred hackneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U.S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C. R. I. & P. Railway, forty miles northwest of Peoria, Illinois.



Ensign's PERCHERONS



OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write **S. A. ENSIGN, CLEGHORN, IOWA**
C. A. PINGEON, Sale Manager.

HORSES.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

1910 IMPORTATIONS ARRIVED JANUARY 25TH AND FEBRUARY 20TH.

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in THE WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

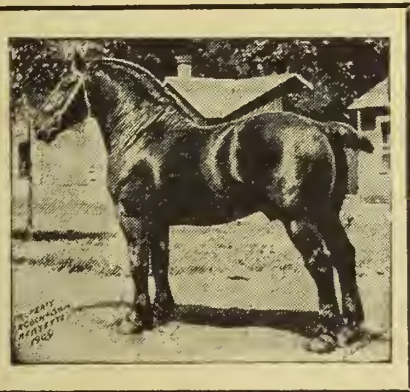
TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

BEFORE YOU BUY A STALLION

Be Sure to See What Is
Offered By The

LA FAYETTE
Stock Farm

Where
Quality and Quantity
Are Assured



A grand lot of big-boned Drafters, with the desired weight—**PERCHERON, BELGIAN, SHIRE, GERMAN COACH** and **HACKNEY STALLIONS** and **MARES**—a place where you can be suited in a horse at the right price, terms and guarantees.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

**W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM,
CEDAR RAPIDS, IOWA.**

Special Announcement of Our Second Annual 30-Day Sale

ON
STALLIONS and MARES

WE can show you a grand lot of imported horses—Percherons, Belgians, and Shires—that landed here last Aug. They are now in excellent breeding form, all dark colors, 2 to 4 years old, weighing from 1,800 to 2,100. Also a choice lot of American-bred Percheron stallions of serviceable age, yearlings and stud colts. Our importation of Percheron and Shire mares is now ready for sale. With them we can show you a grand lot of American-bred Percheron mares and fillies. All mares of breeding age in foal. Over 100 head of stallions and mares to select from. Every animal goes on the bargain counter. All International winners included. Nothing reserved. Write us your wants today; we will tell you if we can please you. Car fare refunded if you find we have misrepresented anything to you. Remember, every animal guaranteed a satisfactory breeder. If you want a real bargain in a first-class animal of either sex, come at once and get your choice. Our Motto: Prices right; terms to suit; satisfaction guaranteed; no misrepresentations or disappointment on arrival. Write our home bank for reference. Homewood is on the main line of Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly. Bell phone, Homewood 204.

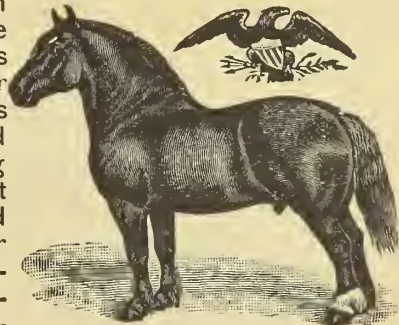
S. METZ & SONS, Homewood, Ill., or Abilene, Kan.

THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October, one in November, another shipment arrived about the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

IF YOU WANT TO BUY A STALLION

EITHER

PERCHERON, SHIRE, BELGIAN or COACH

THE question is what firm should you patronize to get the best value for your money. It's a dollars-and-cents proposition to you. All firms are trying to get your business, so it narrows down to finding out which one is likely to treat you honestly and give you best value. You owe it to yourself to investigate, to consider and to decide according to the facts. We claim to have stallions of all the above breeds equal to any firm in the business, without exception, that we sell for less money than can be bought elsewhere. That is a broad claim, but it is easy for you to find out whether or not we are telling the truth. Ask any customer or any banker in our county. We cannot afford to misrepresent. Our business was built up by square dealing and we will prove to you that we still hold up for honesty. We sold more horses last year than in any previous year and were the first importers to take our advertisements from the papers last spring because we were entirely sold out. We have a fine lot from which to select at the present time and we invite you to come and see us. We will mail our new catalog to any prospective buyer

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.

Situated on main line C. & A. Ry., 45 miles south of Bloomington, Ill., 50 miles southeast of Peoria, and 12 miles north of Springfield. Interurban cars almost any hour from any of the above points, stopping 3 blocks from our barns. for the asking. Address BOX 68.

Lumber and Building Material

AT A SAVING OF FROM 30 TO 50 PER CENT.

THE CHICAGO HOUSE WRECKING CO'S. Wonderful Offer on Brand New Lumber and Building Material—Plumbing—Heating Apparatus—Paint, etc.

We Furnish all the Material to Build these Houses and Barns

\$420.00

Buy the Material needed to Build this House.



House No. 122.

This neat and comfortable cottage has six rooms within space of 24 ft. by 24 ft., and is very little higher than a one-story house. On the second floor are two fair sized rooms with ample space for closets or store rooms. The first floor has large living room, two bed rooms and a large kitchen. A cozy home.

\$725.00

Buy the Material needed to Build this House.



House No. 130.

This house, the most popular design ever built. Size 25 ft. 10 in. by 29 ft. 6 in. Pleases a large number and can be economically constructed. Has eight rooms, with bath, pantry, vestibule entrance and large hall connecting with kitchen.

\$650.00

Buy the Material needed to Build this House.



House No. 6.

House design No. 6 is known practically throughout the U. S. The most popular design ever placed on the market. Contains reception hall, parlor, dining room, kitchen, pantry on first floor; 3 bed rooms and bath on the second floor.

\$798.00

Buy the Material needed to Build this House.



House No. 139.

The design shown herewith is a modern house of liberal dimensions and extremely handsome effect. Size 29 feet wide by 33 feet 6 inches deep, exclusive of porch, and has every convenience of a strictly up-to-date home.

\$550.00

Buy the Material needed to Build this House.



House No. 117.

Here is a bungalow intended for a wide city or suburban lot. Size 39 feet 6 in. by 27 feet deep. Living room, dining room, kitchen, pantry, 3 bed rooms and bathroom on one floor. Rooms easy of access. For a summer suburban home this class of house offers many advantages.

High Grade Bathroom Outfits.



Strictly new and as good as anyone sells. We have everything needed in Plumbing Material. Our prices mean a saving to you of 30 to 60 per cent. We can easily prove it if you will give us a chance. Here is an illustration of a Bathroom Outfit we are selling at \$37.50. Your Plumber would ask you about \$60.00 for this same outfit. It's only one of ten other complete outfits that we are offering from \$25.00 to \$100.00. Our catalog describes them in detail. You need the book if you want to keep posted on up-to-date business methods. Get our prices on Pipe and Fittings.

PRICES FOR COMPLETE PLUMBING OUTFITS.

We furnish complete plumbing for any of the above houses including Bath Tub, Closet, Lavatory and Kitchen Sink, and all material necessary for "roughing in" work, so as to complete the whole job to the ground line. All material "A" grade, brand new and guaranteed for \$92.50

PAINT FOR THESE HOUSES.

Double coat inside and outside, except floor and roof paint.

No. 122. \$17.93 No. 6. \$26.54
No. 130. 26.84 No. 139. 27.54
No. 117. . . . \$19.70

PRICES FOR COMPLETE HEATING PLANTS.

We will furnish a complete Heating Plant guaranteed first class and brand new, for these houses as follows:

Prices for Hot Water Heating Plants.
No. 122. \$125.00 No. 122. \$128.84
No. 130. 222.63 No. 130. 196.84
No. 6. 216.00 No. 6. 180.84
No. 139. 245.77 No. 139. 202.34
No. 117. 176.21 No. 117. 147.85

Prices for Hot Air Plants.
No. 122. \$ 78.65
No. 6. 99.36
No. 130. 127.10
No. 117. 83.05

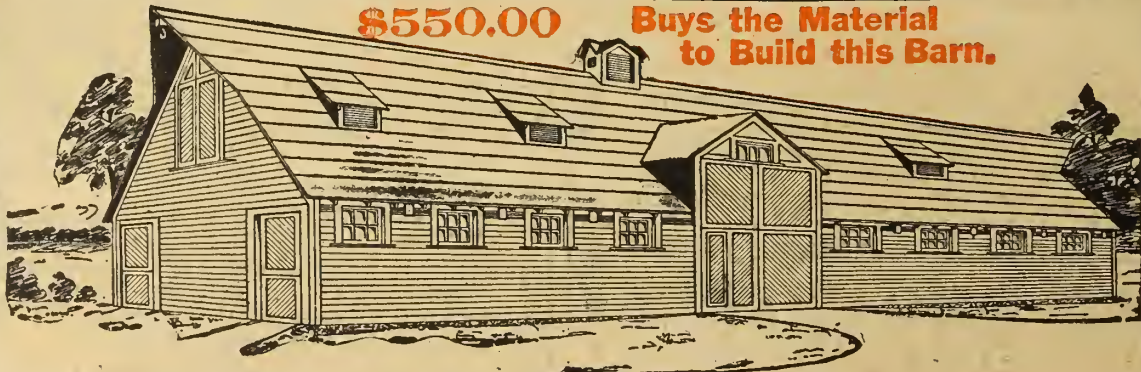
Hot Water Heating Plants.



We furnish new complete hot water heating outfits at half the usual prices. Our proposition includes all necessary plans, specifications, blue prints and detailed instructions, so that any ordinary mechanic handy with the use of tools can easily install it. You can't go wrong when you deal with us. We stand back of every sale. You send us today a sketch of your building and we will make you a proposition to furnish you a complete steam or hot water heating outfit. We also have hot air furnaces. Our booklet on heating plants tells every feature of the heating question. We can quote radiators and heaters separately. Whether you buy from us or not it is a valuable book for you to own.

OUR "STAR BARN DESIGN" SHOWS

A modern cattle and horse barn which we believe will meet the requirements of many farmers who make a business of raising stock on a moderate scale. This building is of the balloon type of construction as shown more fully by our Blue Print Plans. The hay mow extends to the ground floor and also above the grain rooms on each end of the barn. Cattle stalls are arranged on one side of the hay mow, while the horse stalls are arranged on the other side.



\$550.00

Buy the Material to Build this Barn.

OTHER FEATURES OF OUR "STAR BARN DESIGN."

We particularly call your attention to the numerous windows shown in the ground floor plans. There is no part of this structure that is not amply lighted, and the windows together with the ventilation in the roof furnishes an ample supply of fresh air to every part of the building. The size of this barn as stated is 53 feet wide by 80 feet long, 8 feet to the eaves, 24 feet to the comb. Price, without stable material, \$550.00.

SEND US YOUR LUMBER BILL FOR OUR ESTIMATE

We carry in stock over 20,000,000 feet of brand new lumber and can furnish mill work of all kinds. Also Structural Iron and Metal and Ready Roofing.

\$2.00 Buys complete set of Blue Prints

That's the price for the plans for any of the buildings in this advertisement. We send you a set of plans of any of the houses described above including the necessary specifications and a list of material, transportation charges prepaid for the sum of \$2.00. deposit. At this price we will furnish the blue prints and plans including list of material for the designs illustrated and described above. This \$2.00 that we require is only a deposit or guarantee of good faith. Our proposition is as follows: Is after you receive these blue prints specifications and list of material and decide to place an order with us for the complete bill of material, we will credit you with the \$2.00 received, so that no charge whatever is made for the blue prints. If you decide to return the plans, specifications and list of material inside of twenty days, we will refund \$1.50, thereby making the total cost only 50 cents.

Water Supply Outfits.

Modern Air Pressure Water Supply systems at prices ranging from \$48.00 to \$200.00. They are strictly new, first class and complete in every detail. It makes no difference whether you live in the country, you can enjoy every city comfort at little expense. Why not investigate this? We are ready to furnish you with all the facts free of charge. All material fully guaranteed. We also have a complete stock of Pipe, Valves and fittings at 40 to 60 per cent saving. Gasoline engines at low prices.

\$36.00 BUYS A 2 H. P. GASOLINE ENGINE. We are offering the finest 2 H. P. engine ever produced at a price lower than you can possibly secure it for elsewhere. It is strictly first class and brand new and covered by a binding guarantee.

Our Free "Book of Plans".

This undoubtedly, is the handsomest Book of Designs ever produced. It is a practical work of art produced by the best architects. We give it away without obligation of any kind to any one who intends to build now, or has any future prospects of building a home or a barn. It contains reproductions of photos and is true to life in every way. It explains in detail Our Wonderful Building Offer whereby we propose to sell at a given price the complete bill of material needed to construct houses, cottages, bungalows, barns etc. We want every reader of this paper who values such a book to write us for a copy. We are leaders in our methods, and our complete building proposition is the most enterprising building offer ever presented to the public. You fill in the coupon shown elsewhere in this advertisement and we will send this "Book of Plans" without any obligations on your part.

FILL OUT THIS COUPON.

Chicago House Wrecking Co., Chicago.

I saw your ad. in The Homestead 3-10 329
Send me free of all cost your "Free Book of Plans" and your large General Catalog. I am interested especially in

Name.....

Town..... County.....

R. F. D..... P. O. Box..... State.....

If you don't wish to send coupon drop us a postal card, tell us where you saw this ad. and what items interest you.

Our Mammoth Free Catalog.

The Greatest Price Maker ever Produced. A book of 500 pages profusely illustrated. A demonstration of what the Chicago House Wrecking Co. stands for as a bargain center. It's such a book as every buyer of merchandise must have in his or her possession. It will save you money every day you buy goods. It's a pace maker in the bargain world. It shows what vast lines of merchandise are secured by us at Sheriffs', Receivers' and Manufacturers' Sales. It costs \$1.00 to produce each one of these catalogs. We send it to you absolutely without charge of any kind, and without any obligation. It contains a description of our vast stock of Furniture, Household Goods, Office Fixtures, etc. Fill in the coupon shown elsewhere in this advertisement and tell us what lines of merchandise interest you most and we will furnish you with additional information concerning the material you need.



WE WOULD PAY

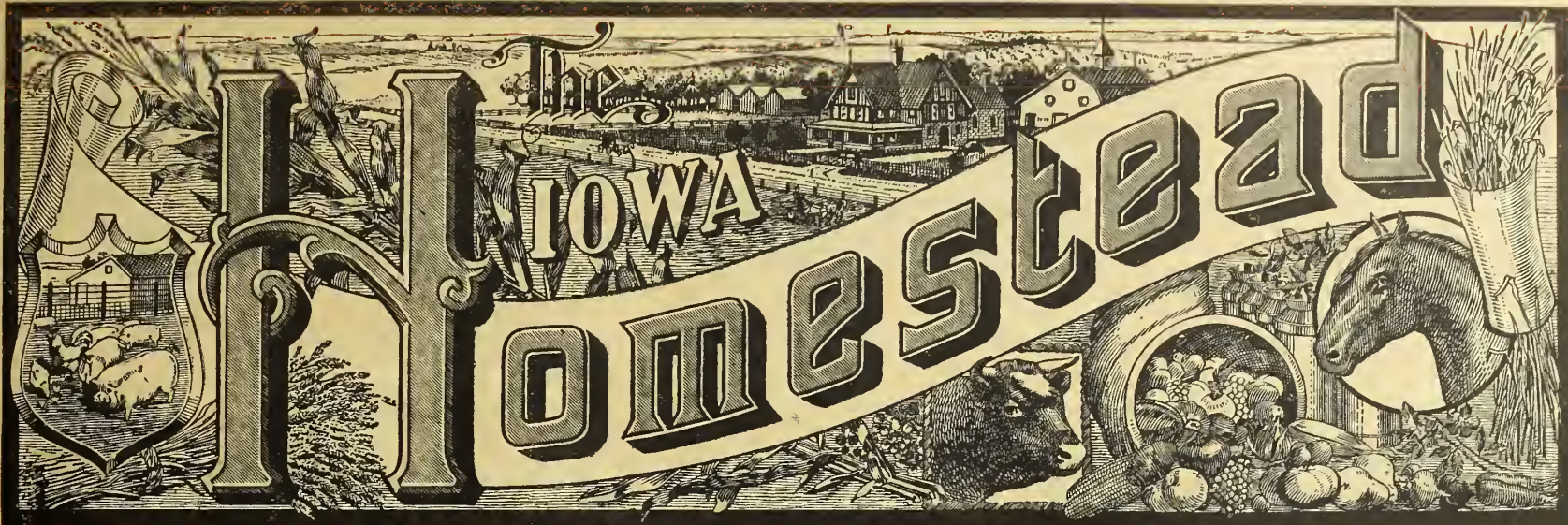
\$5,000 FOR A NAME.

The Chicago House Wrecking Co. was organized in 1883 for the purpose of dismantling the World's Fair of Chicago, since which time we have purchased all the leading Expositions. At the present time our business consists in the purchase from Sheriffs', Receivers' and Manufacturers' Sales of immense stocks of general merchandise and supplies. We have spent millions acquainting the public with our wonderful institution and with our vast quantities of new merchandise. Our greatest difficulty has been to impress the fact that our goods are not second-hand; nor anything but first-class, high-grade goods, just the same as you would purchase in any mercantile house. Our name misleads the public into the belief that the goods we offer for sale are not brand new. If we could discover a name broad enough and general enough to correct these false impressions, we would willingly pay the sum of \$5,000. Address

Business Manager's Office, Dept. No. B17

CHICAGO HOUSE WRECKING CO., CHICAGO

CHICAGO HOUSE WRECKING COMPANY, 35th and IRON STREETS, CHICAGO.



VOL. LV. NO. 11

DES MOINES, IOWA, MARCH 17, 1910

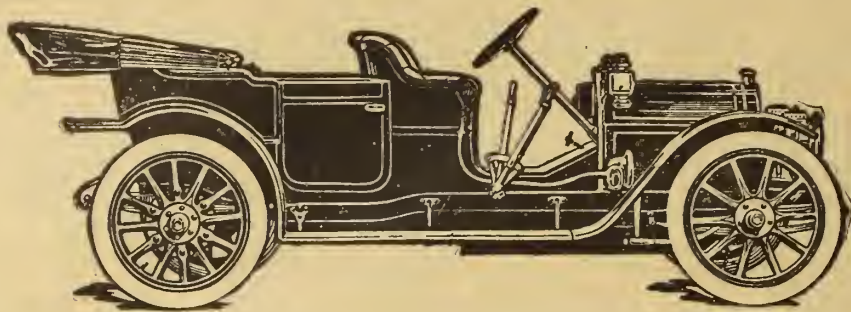
WHOLE NO. 2736



THE RENT PAYER

Chalmers "30"
\$1500

Touring Car
Roadster
Pony Tonneau (\$1600)
Inside Drive Coupe (\$2100)
Limousine (\$2750)



On the radiator

We Enter Our Cars in Races Merely to Test and Prove Them

*In two seasons of motor contests Chalmers Stock Cars
have won 89 firsts, 32 seconds and 21 thirds*

We do not make racing cars but we win most of the races we enter.

We do not make special hill-climbing cars—yet we win most of the hill-climbing contests we enter.

We *do* make all-round cars that will win races, hill-climbs or endurance tests. In other words, they are right in every particular—made right by repeated tests in all three requirements of power, speed and durability.

Chalmers-Detroit Cars

are strictly "cars for the road."

Although last year we spent many thousands of dollars in automobile contests, *one-third of this expense was charged to advertising and two-thirds to engineering expense*—because this is the best experimental work we know.

In the past two years there have been in America six—and only six—great road races for light cars. Chalmers "30's" have been entered in all six and they have won *five firsts and one second and one third*. In no race did they fail to show. Here is the full story:

First and second in Jericho Sweepstakes, Long Island Motor Parkway, October, 1908.

Third in the 200 mile International Light Car Race at Savannah, November, 1908.

First in the Indiana Trophy race, June, 1909, when Matson averaged 51.5 miles per hour for 232 miles, making better time than the winner of the Big Car race of the following day.

First in the Santa Monica (California) 202 mile race, July, 1909, where it set a world's speed record for light cars of 55.5 miles per hour.

First in National Light Stock car event at Lowell, Mass., September, 1909. Driven by William Knipper 127 miles at an average speed of 52 miles an hour.

As a climax, this greatest of light cars, driven by Matson in the last Vanderbilt race, again set a new world's light car speed record by

averaging 58.5 miles an hour, winning the Massapequa Cup. Not once during the race did this car stop, and it defeated the nearest competitor by nineteen minutes.

The "Forty" won the Detroit Trophy in the 1909 Glidden tour—the longest and hardest touring contest ever held.

In the 200-mile road race over the Fairmount Park course in Philadelphia, the "Forty" defeated one 90 h. p. car, four 70 h. p. cars, seven 60 h. p. cars, and three 50 h. p. cars. It was beaten by only one car—a 90 h. p. giant, more than twice as big and twice the price, and then only by four minutes.

The "Forty" was awarded the "Consistency Prize" because it did not stop a single time during the race.

Bert Dingley has driven a "Forty" all the past season. Of the many road races he started he failed to finish in but one. On this showing *Motor Age* awards him the title of premier American driver of the year.

But the prospective owner may ask: what does all this mean to me?

It means simply that the Chalmers Motor Company has proved, for your benefit, that its cars are everything they claim they are—the best cars in the world at the price.

Every car the Chalmers Company has entered in an automobile contest has been **strictly a stock car**.

A 200-mile road race at sustained speed of 40 to 80 miles an hour puts a car to a severer test than the average owner could put it to in a whole year's use.

If there is a weak spot in a car it is discovered under the strain of contests, and the improvement is made.

Therefore—the **private owner is the one who gains most from our automobile racing**.

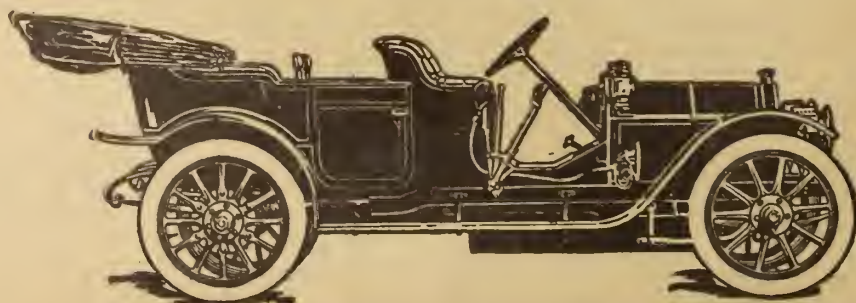
We shall be pleased to send you our handsome new catalog, showing our various models reproduced in actual colors, if you will mail the coupon.

Chalmers Motor Company, Detroit, Michigan, U. S. A.

Licensed under Selden Patent

**Chalmers
"Forty"**
\$2750

Touring Car
Roadster
Pony Tonneau



A Memo. to
Chalmers Motor Co., Detroit, Mich. B
Please send me copy of "Flag to Flag" book, giving
the story of the Denver-Mexico City trip; also send your
catalog.

Name

Address

City

County State

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MARCH 17, 1910.

Feeding and Caring for Dairy Cows

Well-Bred Cows Fed and Cared for Properly Will Produce One Hundred Dollars' Worth of Cream Per Year at a Cost Not to Exceed Forty-Five Dollars for Feed, Leaving a Net Profit of Fifty-Five Dollars----Dollars in Dairying are Numerous and Easily Earned

THE good feeder prepares in advance for his animals. He will raise an abundance of clover and alfalfa, cut it early, and cure it with the utmost care to preserve the feed value and to have it in the most digestible form. The grain crop will be also sown with the feed value in mind; that is, to have a variety containing the most protein. This also will be harvested in the best condition to be clean and sweet and free from mold. The corn crop is the most important in feed value per acre and especially is this true if the silo be used.

The silo is a necessity to obtain the best results in feeding. In it the corn is saved with the least possible loss and in the best possible shape for feeding. The natural juices are preserved, making a succulent feed when all other feeds are dry. It not only makes an easily-digested feed in itself, but helps the animal to digest the other feeds that make up the ration.

After raising these crops we are still without the necessary protein and we must supplement these feeds with some containing a large per cent of protein with which to balance the ration. Wheat bran is one of the best cow feeds, being rich in protein and deficient in fats. It fills a place in cow feeding which is hard to duplicate. Oil meal, gluten feed, ajax flakes, cottonseed meal and several others feeds are excellent, but the feeder must choose the feeds according to price and the proper balancing of his ration. If he can raise alfalfa hay, that being rich in protein, he can balance his ration with very little of the high-priced feeds.

As our winters are long and cold we need careful preparation to meet any emergency. I wish to emphasize this, as too many farmers fail to provide beforehand and the result is that when the cows need the feed they fail to provide it and the cows are pinched in production. June pasture is the ideal feed. No wonder milk is produced in great abundance and with little effort, when the grass is juicy, when the days are mild and pleasant, but when the weather gets hot and the pasture gets dry, then the dairyman must supply what is lacking in feed. This can be done by some soiling crop such as oats and peas or alfalfa or silage. With us we depend on our silage to supplement the pasture. Should dry weather continue as last season some ground feed should be added. If milk sheets are kept and the milk weighed and recorded each day the feeder can see if his cows are falling off, and if they are, provide what is lacking. If a cow falls off for any length of time she will not come back in her flow till the next freshening. Sweet corn planted convenient to the pasture makes an excellent fall feed, and rape is good if fed carefully.

Do not put off the winter feeding

By H. D. Griswold

too long, but get them on full ration early. The late frosted grass is not worth much and should not be counted on. Our winter ration is as follows: Average thirty-five pounds per day of silage, six or seven pounds of ground feed with what clover or alfalfa hay they will eat and what shredded corn fodder they will eat. The grain is oats and barley, bran and gluten. These feeds are mixed only as they are fed to each cow, so we can vary the mixture as well as the quantity to the individual needs of each animal.

They are fed at a regular time by the same person, one-half of the above ration in the morning and one-half at night. Feed carts are used both for the ensilage and the ground feed, enabling one man to do the work and do it rapidly. The highest amount of ground feed fed is eleven pounds per day and from that down to two pounds of bran for a dry cow. The individuality of each cow is carefully considered, that is, the amount of milk she is giving, the time she has been in milk, the tendency to leanness or fatness, her natural capacity and her likes and dislikes. When spring comes don't hurry about turning out to grass, wait till the pasture has a good, strong start and then feed some grain the first week. Clean, pure water should be furnished in abundance and warmed in cold weather. Salt should be supplied often and in small quantities.

The sire is not allowed to run with the herd, but is kept in a pen by himself both for safety and also that we can keep the records and know when each cow is due to freshen. A cow

should have four or five weeks of complete rest; more than that is not necessary. During the time she is dry she should be well fed, but not with fattening feeds. We consider bran best. We do not wish the cow to lay on fat, but to be in good, healthy condition. She should have a roomy box stall—dry and clean with plenty of bedding—where she will be quiet. Place her there some days before she is due so she will get used to the place and feel at home. Be ready and watchful to help if need be, but do not interfere with nature unless necessary. After the calf is dropped give her a pail of warm water and if she is cold blanket her so that she does not get chilled at this time. Then leave her alone for twelve hours. By that time the calf has sucked and the cow can be partially milked, but do not draw all the milk at first. The second day take off the calf and return the cow to her stall. Do not increase the feed till the third day and then if she is all right increase the feed gradually until she has a full ration. Special care at this time will bring its reward in the whole year's work.

The stable should be the long way north and south to get east and west and south windows. Two things are essential to the comfort of the animals and convenience in doing the work. The stable must be tight and not too large or high or else the animals cannot warm it. We prefer to have the cows in two rows facing each other with a feeding alley between the two mangers. A stable thirty-two feet in width, eight feet high and long enough for the number we wish to keep. We prefer manure carriers for cleaning the stable rather than driving through. A driveway takes more room and large doors at each side let in more cold and

is not as easily kept clean. The King system of ventilation is an absolute necessity for the health of our animals and for clean milk production. Cement is the only material to be considered for floors, gutters and mangers. We use boards on the cement in the stalls, as it holds the bedding in place better and is warmer for the cows to lie on. The stalls are four feet wide and the cows are fastened with chains around their necks. The stable is white-washed at least once a year to purify it and also to make it lighter and look better. Water should be provided in the stable so the cows do not have to go out in stormy weather. The length of the stall from manger to gutter should be adjusted to the size of the cow so she will keep clean and plenty of bedding should be used.

Clean milk is the cry all over our land and this is right; the cows must be kept clean, the milker must be clean, and all the utensils kept clean. The separator should be in a room by itself adjoining



SHIRE STALLION GOES TO IOWA.

An event of more interest to Iowa farmers and breeders than any draft stallion sale that has been consummated for a long time happened recently when Trumans' Pioneer Stud Farm, of Bushnell, Ill., sold to the Iowa Agricultural College, at Ames, Iowa, through Prof. C. F. Curtiss, the imported gray Shire stallion, Littleworth Marmion. This colt will be remembered as winning first prize in the two-year-old class at the Iowa State Fair last fall and at that time was greatly admired by the leading horsemen in attendance at the fair. The judge at that time, Col. R. B. Ogilvie, tried to buy him and we understand offered Messrs. Truman a very attractive price for him. Littleworth Marmion is perhaps one of the most perfect draft colts in the country today. When his measurements are taken into consideration, together with his clean-cut head, neck, short back, strong loins, deep rib, plenty of width at both ends, and standing on the best of feet and joints, with the best quality bone possible to procure, he stands in a class to himself. The management of the college are to be congratulated upon their selection, and in addition to the noted stud of Shire mares it will place the college at the very top so far as draft horse interest is concerned.

(Continued on page 5.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROVER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second class matter

PUBLISHED EVERY THURSDAY

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SEED CORN ALARMINGLY POOR.

Mr. John H. Versteeg, one of the progressive farmers of Marion county, Iowa, recently sent the following communication to his local paper:

Considerable comment has been made upon the condition of the seed corn for the 1910 crop. The freeze which occurred October 13th was early reported to have injured the vitality of the corn intended for seed, and the injury, it was feared, might be widespread. One of our agricultural papers has just completed a very exhaustive inquiry through its corps of regular crop correspondents. These men, trained for many years in the matter of close observation, are well fitted to determine the exact status of the seed corn situation. The results of the investigation are so alarming one hesitates to present them, but feels that if the corn growers are warned in time they may secure enough good seed to plant their entire acreage. According to the report 90 per cent of the counties in Iowa report injury by the October freeze. The trouble seems to be more serious in Iowa than in any other state. However, among the other large corn-growing states 48 per cent of Illinois counties show an injury, 41 per cent of Nebraska, 44 per cent of Michigan, 22 per cent of Indiana, 66 per cent of North Dakota, 38 per cent of South Dakota, 43 per cent of Wisconsin, 38 per cent of Minnesota, 10 per cent of Oklahoma, 5 per cent of Kansas and 13 per cent of the counties of Ohio. Only four states, Texas, Arkansas, Kentucky and Tennessee, have not been hurt by the frost.

WHAT'S THE USE

Sticking to a Habit when it Means Discomfort?

Old King Coffee knocks subjects out tolerably flat at times, and there is no possible doubt of what did it. A Mich. woman gives her experience:

"I used to have liver trouble nearly all of the time and took medicine which relieved me only for a little while. Then every once in a while I would be suddenly doubled up with an awful agony in my stomach. It seemed as though every time I took a breath I would die. No one could suffer any more and live.

"Finally I got down so sick with catarrh of the stomach that I could not turn over in bed, and my stomach did not digest even milk. The doctor finally told me that if I did not give up drinking coffee I would surely die, but I felt I could not give it up.

"However, Husband brought home a package of Postum and it was made strictly according to directions. It was the only thing that would stay on my stomach, and I soon got so I liked it very much.

"Gradually I began to get better, and week by week gained in strength and health. Now I am in perfect condition, and I am convinced that the whole cause of my trouble was coffee drinking, and my getting better was due to leaving off coffee and taking Postum.

"A short time ago I tasted some coffee and found, to my astonishment, that I did not care anything about it. I never have to take medicine any more. I hope you will use this letter for the benefit of those suffering from the poisonous effects of coffee."

Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

That the seed corn situation is an exceedingly serious problem can readily be seen from these figures. Iowa farmers in particular will have to scurry around if they hope to raise anything like an average crop. In fact, the farmers of all the big corn-growing states will be compelled to test their seed corn thoroughly and then determine in what way to get it in case their seed corn is not satisfactory. The testing of seed corn is exceedingly simple. It has often been described in the columns of farm and local papers and demonstrations have often been given, so one can have no excuse if he does not secure enough seed corn of high-germinating qualities for his own planting.

It is a fact that as men take up the matter of testing our corn they are finding the situation more serious than even the most pessimistic writer depicted it during the winter months. The editor of The Homestead has been taking his own advice in recent years and has picked his seed corn the last of September or the first of October. That plan was carried out last fall and as has been the custom in the past the seed was picked the first of October and hung up in a crib for three weeks. Of course, it was hanging in the crib the night of the hard freeze, but it was later placed in a room where freezing could not take place. That seed was banked on as being first class, and indeed it looks as though 100 per cent of it would grow, but as a matter of fact it is far from perfect. In our case we are testing out corn that stood in the field all winter, using the seed from high land that was planted early, corn that was out of the way of the frost by the middle of last September. We find that some of that corn is actually first class and through a system of testing carried on during the balance of March and the early part of April, we propose to find the good seed. Where corn did not mature until October we very much doubt if any good seed can be found in what was put in the crib last fall, or what stood in the field during the winter, and in that case it will be necessary to look to some other source of supply.

THE POSTAL SAVINGS BANK.

The postal savings bank bill, which has already passed the senate and is now before the house for consideration, is designed to be of value in crowded cities and in isolated country districts. In the former because it will cater to the poorer class of people who have never placed their confidence and their savings in the banks already existing. In the latter because it will cater to the people, who, living in small villages or hamlets, have had no banking facilities heretofore, but who may, after the bill becomes a law, deposit their savings on interest in the local postoffice.

The postal savings bank bill has become a political issue, but it is to be hoped that when it becomes a law it will be given a fair and impartial trial without regard to politics. The last republican national platform favored unequivocally "the establishment of a postal savings bank system for the convenience of the people and the encouragement of thrift." The last democratic national platform declared for such a bank "if the guaranteed bank cannot be secured." It will thus be seen that both parties are practically in favor of the measure, while President Taft, both in his first annual message to congress and subsequently, has advocated the plan. Many foreign nations already maintain postal savings banks, which are said to be highly successful.

The bill, as it passed the senate, provides that any postoffice which has the authority to issue money orders shall become a repository for public funds. Any person may open an account by depositing \$1. All future deposits must be in multiples of \$1. In the event that a person wishes to open an account with less than a dollar, the postal savings bank is authorized to issue a card and stamps somewhat similar to the system used in many public schools. Stamps are affixed to the card to the value of the pennies or nickels or dimes deposited and when the card shows an aggregate of \$1, a regular account may be opened. Depositors will receive 2 per cent interest on all deposits, while the postal savings bank is authorized to re-deposit its funds in the local banks at 2½ per cent interest, the ¼ per cent being taken as sufficient to pay the running expenses of the bank. The

bill provides for proper securities to be given by the local banks in which the funds are deposited. In the senate considerable discussion ensued as to the nature of these securities, whether they should be exclusively government bonds or whether city, county and private bonds would be accepted. This is a matter which must be definitely determined in conference before the bill becomes a law.

Undoubtedly a majority of the banks already existent are not favorable to the postal savings bank. They look on it as a possible competitor, and while this may be so to a large extent, if the purpose of the authors of the bills is fulfilled the postal savings bank will not compete with the existent banks, but will cause people who have never yet acquired the art of saving to do so will eventually increase the business of already existent banks by diverting to them funds which are now kept hidden in secret places by many a poor person. Throughout the grain belt a great majority of villages and small towns already have their established banks, but those places which are not thus supplied will be able to offer banking facilities through the postoffice. In the rural districts the people do not lack the confidence in banks which exists to some extent in the large cities. The farmer and the banker know each other personally and have close business and social relations. There has grown up a community of interest between the two, so that the value of the postal savings bank to the farmer will be felt almost exclusively in those small communities where banks do not now exist.

CLOVER WITH FALL RYE.

An Illinois subscriber sends the following communication:

I have a thirty-acre field of fall rye on land that is quite poor and I would like to get some advice concerning the practicability of sowing clover along with the rye for fertilizing purposes. As clover seed is high in price I do not like the idea of sowing it and missing a catch and yet it is not clear to me just how one would cover the clover seed without injuring the rye.

It is entirely practicable to sow clover seed in the spring on rye that has been seeded in the fall. Either one of two methods may be employed. By sowing in March the seed will, in all probability, be effectively covered by such freezing and thawing as takes place after the seeding. The other method would be to wait until the ground is in good condition, sow the seed and give the surface a good harrowing. We are rather favorably inclined to the latter plan because the harrowing breaks up the hard surface of the ground and thereby creates a mulch which really benefits the rye. Harrowing not only covers the seed, but it also prepares a seed bed for the young clover plants and that is a real advantage. If it should happen to be a dry spring the mulch created will conserve moisture which, of course, will be beneficial to the rye as well as the clover.

KIND WORDS FROM MANY FRIENDS

"Recent numbers of The Homestead are the best you have ever issued. Every number is a surprise to me."

"I think The Iowa Homestead is the best paper that any farmer can take."

"I have been a reader of The Homestead for twenty-four years, and intend to stay with you until I die."

"I know from experience that any one of the six papers you offer is worth the price asked for all."

"You have shown great judgment in picking out the year's reading matter. The list is so good that I have recommended it to all my friends."

These are merely samples of hundreds of commendatory letters received by the publisher of The Homestead in regard to the Red Letter Subscription Offer, which will be held open but a few weeks longer. If you have not already availed yourself of this unparalleled opportunity, do not fail to do so at once. The offer is simply this: Remit \$1.50 to The Iowa Homestead, Des Moines, Iowa, and you will receive the six following papers for one entire year: The Iowa Homestead, Home Life, Kansas City Weekly Star, Kimball's Dairy Farmer, Commercial Poultry, and The National Swine Magazine.

Easter Prize Offer

A prize for 100 persons who write a reason for preferring

SHIRLEY PRESIDENT SUSPENDERS

Your letter giving reason "Why a Man Should Prefer SHIRLEY PRESIDENT SUSPENDERS" may win one of the 100 prizes.

THE PRIZES:

1st prize, \$50.00 4th prize, \$25.00
2nd prize, 40.00 5th prize, 20.00
3rd prize, 30.00 6th to 10th prizes, 10.00

11th to 20th prizes, \$5.00
21st to 50th prizes, One pair of Shirley President Suspenders, with gilt trimmings, value \$1. 51st to 100th prizes, 1 pair of Shirley President Suspenders (regular 50 cents.)

This contest is open to everybody. Write in 200 words or less. The One Best Reason "Why a Man Should Prefer SHIRLEY PRESIDENT SUSPENDERS."

Sign your full name, address, and the name and address of your clothing dealer. We must have the dealer's address, for the prizes will be distributed through him whether he sells Shirley President Suspenders or not.

Contest Closes April 15th

No attention paid to letters thereafter. The winners will be announced and prizes awarded about May 10th. Write your letter today.

The C. A. EDGARTON MFG. CO.
804 Main Street Shirley, Mass.

KING'S

\$50,000 Guaranteed

Lightning Rods

Protect Your Life

and Property

No other rods sold on this basis. No other rods so good as mine. King rods are on many public buildings, insurance companies and others, who know favor mine because they are better. They are safe, certain and satisfactory. They are just what you should get. 98 per cent pure copper, 30 strands to the cable. All attachments the finest that can be made.

I Want 1000 More Agents

I want you if you're a hustler and acquainted in your territory. You may be a retired farmer; you may be thinking of renting your farm; or if you are a hardware or implement dealer it will pay you to investigate my proposition. It's fair and square and gives you an opportunity to make from \$1,000 to \$3,000 in a few months like my other agents.

Write For FREE Catalog

I'll send it at once with full particulars and prove that my rods are best and my proposition the surest, most liberal of all. Do it now—today. Write a letter or post card.

Geo. M. King, Pres. KING MFG. CO., 600 Walnut St., Des Moines, Iowa.



ELECTRIC Handy Wagon

Not the man-killer, horse-killer kind. Gives you the low lift instead of the high lift. The broad-tired steel wheels prevent rutting and make light draft. Over a hundred thousand farmers are using the Electric Handy Wagon—the best kind of wagon, the best of its kind. It carries all loads and stands up in all climates. Send for free catalog, and know the Handy Wagon that lasts your lifetime. Don't wait, send today.

ELECTRIC WHEEL CO., Box 58 Quincy, Ill.

WITTE ENGINES

USE GAS, GASOLINE OR KEROSENE

Are known by a superior standard of construction 25 years of service has demonstrated their worth. Does work at lowest cost and is always ready to saw, grind, pump, shell or do any farm or shop work.

FIVE YEAR BOND GUARANTEE



We build all sizes in stationary or portable type. Hopper jacket or water tank cooling. Inducements to introduce in new localities. Write stating size wanted.

WITTE IRON WORKS CO.
243 East 16th St., Kansas City, Mo.

Get Book on "BRECO"

Write Now—Samples Free—Book Free. Direct from factory—\$1.36—\$1.66—\$2.26 per Roll. Freight paid to west boundary line Minn., Iowa, Mo. and north of south line Tenn. Reliable high quality. Guaranteed waterproof, fire-resisting, durable.

The Breese Bros. Co.
Roofing Dept. 17, Cincinnati, Ohio

DAIRY AND CORN SPECIALS.

The popularity of the special train in educating the farmers has been emphasized anew this year. One main line railroad traversing southern Iowa and northern Missouri has run three special trains from which agricultural experts have spoken to approximately 100,000 farmers. One of these trains was a dairy special, carrying model specimens of live stock. A quartet of dairy experts delivered practical talks at every station along the line, covering 2,000 miles. The trip occupied three weeks and it is estimated that fully 50,000 farmers who are interested in increasing their dairy output heard the talks and saw the good points of the animals explained to them. The same railroad next week will operate a seed corn special. A similar seed and soil special has been running in northeastern Missouri. At almost every stop the schools have been dismissed and the pupils have been invited into the train to hear practical talks and witness demonstrations on soils and seeds.

It will be recalled that the special train feature of agricultural education had its inception some six years ago when Prof. P. G. Holden traversed the corn belt in a special train, preaching the gospel of seed corn selection and testing. Since that time specials have been run in the interests of better roads, wheat culture, dairying, improved home conditions and even reforestation. While the idea was indigenous to the grain belt, it has spread throughout the entire country. The gospel preached at times has been almost revolutionary. For instance, a dispatch from Kansas states that a gray-bearded farmer who had visited the corn special being run by the state agricultural college, remarked: "I have been raising corn ever since I came to Kansas, but this beats anything on the corn subject that I ever heard, this lecturer saying the way to raise more corn in Kansas is to plant fewer acres and fewer stalks to the acre; this beats me." An equally apt remark was made by a farmer who visited the dairy special in southern Iowa one day last week. He remarked that the trouble with too many farmers has been that they are farmers from the mouth down and vacuums from the mouth up. The intent and purpose of these special trains is to make the farmers farmers from the soles of their feet to the crowns of their heads and eliminate the vacuums altogether.

MEASURING HAY IN STACKS.

A reader of this paper wants to know a good rule by which to measure hay in stacks, and if there is not a way in which to secure the same end by measuring from ground to ground, clear over the stack.

Measuring hay in the stack is estimating it. Weighing over the scales is the only true way, but where and when it is impossible to do this way, it is a little better to measure the stack than to stand off and guess at its contents. The way to measure is simple. Find the width of the stack, the length and then the height. Multiply the first by the second, the product by the third. The result is the number of cubic feet in the stack. If the stack is round instead of rick shape, it is a good idea to "square" the butt. This can be easily and quickly done by finding the circumference, then dividing by four. This means that you have a butt with sides of equal length. For instance, if the circumference of the round stack is sixty feet, dividing by four converts it into an imaginary square, each side of which is fifteen feet in length. You treat it then just the same as if a rick, estimating the height to where you think the fifteen-foot square will go and still contain a solid square.

As to measuring the height by getting the distance from the ground over the stack to the ground on the other side, it is possible to measure in that manner, and some do so, but that plan has no special advantage. When that plan is followed it is usually customary to take one-third of the whole distance for the height to which the stack will "square." A better way, according to our way of thinking, is to take a 1x4 board and mark on it the distance to which it is thought the stack will maintain a square. One can

estimate the square height more accurately in this way than to measure clear over the top, because some tops are long and slim, while others are broad and low.

SEED CORN SPECIAL FOR IOWA.

A seed corn special will traverse the main line of the Burlington railroad, and adjacent branches, between Glenwood and Knoxville, Iowa, from March 21st to 26th. The special will be in charge of Prof. P. G. Holden, Prof. M. L. Bowman, and Prof. B. W. Crossley, all of whom are expert agronomists and have had much experience in the special train educational work. These men will spend several hours in each town in order to ascertain local conditions as to seed corn, answer all questions and give practical talks and demonstrations.

The route of the seed corn special, together with its schedule of stops and lectures is as follows:

	Ar.	Time of Lecture.	Date
Glenwood	11:00a.m.	2:00p.m.	21st
Malvern	5:17p.m.	7:30p.m.	21st
Villisca	5:30a.m.	10:30a.m.	22d
Corning	1:33p.m.	2:30p.m.	22d
Creston	7:35p.m.	8:00p.m.	22d
Lenox	1:34p.m.	2:30p.m.	23d
Bedford	7:04a.m.	10:30a.m.	23d
Massena	4:23p.m.	4:30p.m.	24th
Greenfield	7:12a.m.	1:15p.m.	24th
Osceola	8:00a.m.	1:30p.m.	25th
Chariton	4:55p.m.	7:30p.m.	25th
Albia	10:25a.m.	2:30p.m.	26th
Knoxville	6:30p.m.	7:00p.m.	26th

The Burlington railroad inaugurated the seed corn special train service six years ago, furnishing Professor Holden with a train from which he preached the gospel of agronomy to several thousand farmers. It is expected that almost 25,000 Iowa farmers will hear the lectures and witness the demonstrations next week.

THE SEED BED.

While it is very essential that first-class seed be used in order to secure a good yield, it is also important that the bed to receive that seed be well prepared. One man declared the reason he had such magnificent crops was because he cultivated them before he planted the seed. He simply meant that he prepared a good seed bed. He was wise. Soil that is well-pulverized and left in a mellow condition will be ideal for a seed bed. The weeds will be destroyed and plenty of air and moisture will be permitted in the soil. There can be no free circulation of air if soil is left in a packed condition after rains. Stirring soil also preserves sufficient moisture for sprouting the grain, for a soil mulch always tends to hold the moisture. When particles of soil are packed they furnish a ladder for the moisture to climb to the surface and evaporate.

A coarse, lumpy, seed bed is undesirable, as it is impossible for the moisture to ascend very fast by capillary attraction. Consequently, the germinating seed is most certain to suffer for moisture. How often a poor stand of corn is found on a cloddy field. Some one might say it was because the corn could not get through the clods. Not so. The real reason is because the cloddy land did not permit sufficient moisture to arise to the tender roots of the sprouting corn to keep them alive. Good preparation of soil enables the moisture to arise to the surface from the subsoil and enables the seed bed to hold more moisture. Then, too, a field that is well prepared will warm up quicker, sprout the seed sooner, and insure the early crop. Hence the necessity of harrowing, disking, and dragging until the soil is in a first-class condition.

FEEDING AND CARING FOR DAIRY COWS.

(Continued from page 3.)

the stable but not in it. As soon as the separating is done the cream should be kept entirely away from the stable and in ice water until used.

Test the herd for tuberculosis at least once a year and test all new animals brought in. The milking should be at a regular time, quietly, kindly, and rapidly, each milker having his own cows.

The dairyman should bear in mind

that dairying is his business and take necessary time to do it well, not trying to make long days in the field and caring for his animals in a hurry, but shorten the time in the field and care for the cows properly.

The horseman loves his horse, and the true dairyman loves his cows and because he loves them he will protect them from hunger and cold. Anticipate their wants, tend them in sickness and health, and verily he shall receive his reward.

Well-bred cows fed and cared for as we have stated should and will produce \$100 and over per year in cream at a cost not to exceed \$45 for feed, leaving \$55 per year to the cow net profit besides the calf. This I know can be done as we have done it for several years and it is quite satisfactory.

Reliable Hail Insurance

Every year our attention is called to the increasing demand for good, reliable hail insurance. The high price of everything makes it more important that the crop should be protected from possible destruction by the severe hailstorms which occur annually somewhere in Iowa. Sometimes they will follow the same path twice in the same season, or two or three years in succession, but usually they occur in one part of the state this year, and in another part next year, but always coming without warning, and are of such a character that nothing can prevent their devastation.

We are pleased to be able to point out a company which is reliable and which has proved its reliability by its seventeen years of careful, painstaking adherence to business methods which show its high ideals and dogged determination to do the right thing under all circumstances.

As the demand for hail protection increases, it becomes more important that the farmers select the right company, and no mistake can be made if the risk is placed with The Farmers' Mutual Hail Insurance Association of Iowa. This company is the only one in Iowa which does not limit its assessment, believing that a limited assessment is a trap in which to catch the thoughtless or innocent. In their opinion, a limited assessment means simply limited ability to pay losses, and almost a sure scaling down of the losses if they are heavy, while it means no reduction of the expenses.

Notwithstanding their having always paid every loss in full, this association has in its treasury \$40,000.00 in cash, and it made the lowest assessment in 1909 of any of the hail associations, and the same is true of 1908, while its average assessment for seventeen years is about 2½%. The officers give \$20,000.00 bonds which are approved by and filed with the Auditor of State. This association enjoys the distinction of being the oldest hail insurance association in Iowa; of having the largest surplus; of contracting to pay its losses in full; of having paid twice as many losses as all the other hail associations put together; of being the only one having an unlimited assessment, and of having made the lowest assessment of any association. No farmer who places his risk with it can be disappointed.

ARE YOU GOING TO GRADE YOUR SEED CORN?

CAN YOU AFFORD TO PLANT WITHOUT GRADING?

DOES IT PAY? Ask men that have been grading, the Editor of this paper, or any Planter Manufacturer. Do you know that no Manufacturer will go on any State Fair Ground and exhibit his Corn Planter without grading his seed corn?

If they grade corn for exhibiting purposes, why shouldn't you, when you spend months of time on your corn crop? There is just as much work in tending a field of corn with ¼ of a stand as a full stand.

You don't take the interest in caring for the crop with a partial stand like you do where every hill has 3 stalks. Then at gathering time how good you feel where your corn is making 60 to 90 bushels per acre, or how blue you feel where it is only yielding 25 to 40 bushels per acre?

Mr. Farmer, there is money to you in grading your seed corn and if you will grade once, you will always grade. We want to send you circulars of the Perfection Seed Corn Grader.

The best Grader on the market regardless of size or price. We will put it against any grader out.

The single Grader gets three grades. The double Grader gets four grades of corn. Capacity 1 bu. in four minutes, 10 bu. per hour. Price single grader \$1.00. Double Grader \$1.50 F. O. B. Des Moines, Ia. Express prepaid Single Grader \$1.30, Double Grader \$1.85. Write today for circulars; we will help you increase the value of your corn crop.

We want agents to sell our famous "No-Risk" Lightning Arresters. One man made \$36 in four days selling our Arresters.

W. E. ASHBY TELEPHONE CUT OUT CO.

499 PHILLIPS BLOCK

DES MOINES, IOWA



The Tick Question

Ticks do not develop wings in adult life, therefore never leave the animal except by accident. They not only sap the very life out of the sheep, but also destroy the wool.

Dr. Hess Dip AND DISINFECTANT

is sure death to all sheep ticks. It is also a guaranteed cure for Sheep Scab, Foot Rot and every form of Mange or other parasitic disease of the skin in horses, cattle, sheep, hogs, dogs and poultry. It is also excellent for disinfecting and deodorizing hog pens, chicken yards, cow stables, sinks, closets, etc.

One gallon of Dip makes from 70 to 100 gallons. Dr. Hess Dip and Disinfectant diluted one part to 70 of water meets the Government requirements for official dipping for sheep scab.

If your dealer can't supply you, we will. Write for circular.

DR. HESS & CLARK
Ashland, Ohio

FREE BOOK of CRIB PLANS

—Save \$100 to \$500 on the grain you crib. Our books tell how. Your old cribs are O.K. to use a "Little Giant" Elevator with, but write for this new big book. Sent free with our catalog. Gives complete working plans and specifications for building or remodeling most practical used cribs and graineries.

LITTLE GIANT PORTABLE GRAIN ELEVATOR

—Saves its price quickly in time, labor and money. No hand work. Drive right on wagon dump or jack, throw clutch, start horse-power or your engine, and grain is distributed evenly by conveyor at any height. All automatic and quick. Unloads 60 bu. in under five minutes. Investigate. "Thousands in use." Write

PORTABLE ELEVATOR MFG. CO.,
112 McClum St., Bloomington, Ill.

FREE CATALOG

DAIRYMEN TAKE NOTICE



Do You Want To Get In Touch With ALFALFA Raisers who can furnish you with high-grade alfalfa at current prices. Alfalfa baled direct from wind-row and slowly cured in the bale; alfalfa bales retaining all the color, fragrance and juices of the hay. A pure food package, which can be fed direct from the bale without waste or trouble. Write us for full information. (Cut out and save this advertisement).

Luebben Baler Co., Dept. 27 Beatrice, Nebraska.

FARM FURROWS

Turned By a Practical Farmer

The birds are coming a few miles farther north every day in order to be here to sing for us while we are working in the fields. Everyone should be willing to welcome them when they come.

Everything seems to wake up and brighten when springs really begins to show signs of making its appearance. Persons, animals and plants begin to look more lively, even the mud in the yards and road is less discouraging.

A reader of this paper wants to know how to keep the creek that runs through his pasture from taking out so much fence every time there comes a freshet. I was bothered that way until a friend told me to cut the fence at the creek and put in that part that crosses the creek bed in one section. Since then, if any goes out, it is only the small section, which is easily and quickly put back.

Floods gates made of lumber are a nuisance, inasmuch as a high freshet will usually tear them loose entirely and carry them a mile or two down stream, where you cannot locate them even by calling up "central." A wire section usually tears loose only at one end.

The best luck I ever had was to have a male hog get among the brood sows last summer, and in the fall they raised me a lot of fine pigs. For some years I have not been raising many fall pigs, preferring to let the pure-bred sows I have raise one good early spring litter, but now I have got back to raising fall pigs again, I will probably keep up the practice. Fall pigs will come in just right to get the high price this time.

Even if the male getting out was a piece of good luck this time, I would not like to know that it can happen again. The next new pen I make for him is going to be out of two-inch, native lumber, if it can be had.

Two of our neighbors have failed to fill their ice houses this winter and have given as their excuse the fact that the weather has been too cold and the roads too poor. A year ago these same men were growling about the scarcity of ice. Some men always have an excuse for being lazy.

One of these neighbors spends about half of the winter days loafing around the saloons down at the village. It always seems to me that it might be better for him to be leaning over the side of the pig pen with a corn cob in his hand scratching the back of a hog.

He always reminds me of another farmer with whom I am acquainted. Regularly before that fellow could finish his morning chores he had to drive down to the saloon and have a glass of beer. He kept this up for about two years, but this fall had an auction and has moved down where he can have his morning's glass with less trouble. I am really glad he is gone. We have a good man on the farm now. The old codger, however, will soon be on the town.

Farmers do some things just opposite from the way they once did. They no longer sell all stock that is barely ready for market on the first of March, to escape taxation. Formerly, the average farmer had debts to pay when he sold stock, and of course he had no money left on which to pay taxes, but now he has the money left, and taxation is steeper on money than on stock.

The longer I live and the more road work I see done, the better I think of the road drag. The simplicity of the drag is a great thing in its favor, at the same time the uninitiated do not believe it can do the work it does, just because it is such a simple affair.

Whenever a new thing comes out I know something about it, but

never yet have had the opportunity of seeing one of those harrow attachments for riding plows in operation. I wish readers of this paper who have used them will tell what they think of them.

My own notion about harrowing behind the plow is that it pays big to do it at times, and at other times it is a detriment. Late plowing should always be harrowed immediately, but I hardly ever harrow land that is to lie quite awhile before planting, as rains will usually do that for me in the meantime.

A horse put to work with a heavy coat of hair should be worked mighty light for a spell. If not he will sweat till he runs down as thin as a lath. The boys ought to give him a special course of comb and brush until the winter coat is shed.

A good foundation is one of the main things about a barn, and in addition to being a good one, it should be high enough. A serious mistake I made was in not getting the foundation of my barn high enough. It could be remedied, of course, but at ten times the cost of making it a few inches higher than when building.

Nearly every hardware dealer now has packages of bolts, fifty of assorted sizes and lengths in a box. Such a box sells for fifty cents, and the average farmer will find that fifty cents the best spent of any. When a busy man wants a bolt he wants it then and there, and he wants it somewhere near the right size.

Trimming fruit trees is something of a science, and I do not claim to have mastered it. However, this much is a self-evident fact; where there is wind to contend with the tree should be headed low. This applies with considerable force to all sections of the corn belt. Few of us have protection furnished by high hills and thick timber, where trees may be allowed to grow tall and straight.

"Crowd your colts until they are three," said a horseman, the other day. As he is a good horseman, who knows a good horse when he sees one and knows how to raise one, it struck me that his saying was worth passing along, although the truth and importance of it is well known to many. The trouble with some of us is we do not do as well as we know.

Last fall a local buyer offered me \$6 a bushel for the clover seed I had to spare. While in his store, the other day, I overheard him tell a man who wished to buy some that the price was \$9 a bushel. Being able to turn the figure six over and then half way around, converting it into a figure nine, becomes a simple matter to some of the dealers after they have bought and are ready to sell.

Now, when in the field at work and it begins to rain, I go to the house, instead of waiting until wet to the skin before believing that it is going to rain very long. It is better to make a trip to the house and back to the field again than to attempt to stick it out, but it usually happens when one goes in ahead of a bluster it turns out to be a false alarm, while staying in the field too long is good for a two-inch rain anytime.

March 1st found King Winter still with snow enough deposited in his banks in the northern part of the corn belt to make "six weeks sledding" in March." King Winter and Jack Frost are good lively fellows and we are always glad to see them go.

This is not the time of the year when a stack cover is in use very often, but is a very good time to get one. Ours is of ten-ounce duck and 14x16 feet in size, this serves the purpose quite well, but is none too large. A cover of this kind will cost about \$6 and any farmer will find that it is money well spent.



OPPORTUNITIES for YOU Out in The Union Pacific Country —California

Why stunt your life by working hard for a bare living when fruit growing in California offers such splendid opportunities?

Ten acres of fruit in California means a profit of \$5000 a year or more. Not every one can do it, to be sure, but the man who buckles down to his work can make every acre of this agricultural Eden yield more than any three acres he ever tilled in the east.

Men stand together out here and help each other, and every condition of social life and co-operative inspiration helps make the western fruit grower a success at his work and contented with his lot.

Go out and look the country over for yourself. Travel via

Union Pacific-Southern Pacific "The Safe Road to Travel"

Electric Block Signals. Standard and Tourist sleeping cars. Dining car meals and service "Best in the World."

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CURRENT EVENTS

HAVING passed the senate, the postal savings bank bill has gone to the house and been referred to a committee, where it will be kept in oblivion for several weeks, until the house has disposed of the administration railroad bill and numerous appropriation measures. It is confidently expected that the savings bank bill will pass the house, while that it will be signed by President Taft is a foregone conclusion, as it is one of the measures the early adoption of which he has repeatedly urged. In the senate several efforts were made to amend the bill, but only one was successful. This amendment calls for the investment of the postal savings bank funds in government bonds paying 2 1/4 per cent interest, instead of 2 per cent as originally designed. It is proposed to have the postal savings bank pay depositors 2 per cent interest on deposits, so that the quarter per cent additional received from the government is intended to pay the running expenses of the postal bank. Senator Cummins attempted to amend the bill so that it would provide for the investment of the funds in government bonds only in the event of war, but he was unsuccessful. The bill was passed quietly, by a strictly party vote, save for the ballot of Senator Chamberlain, of Oregon, a democrat, who voted with the republicans.

THOMAS C. PLATT, formerly United States senator from New York, and for many years the "easy boss" of the Empire state, died suddenly at his home in New York city a few days ago. He was seventy-three years old and had been in failing health for some years past, but was able to attend to his business duties. The passing of Senator Platt removes a picturesque figure in American politics, a dominating figure of a decade or two ago. Two events stand out prominently in his career. The first was when he resigned from the United States senate, along with Roscoe Conkling, because President Garfield held up the appointments of the two New York senators. The second was when Platt induced Theodore Roosevelt to run for vice-president with McKinley, very much against Roosevelt's better judgment, in the face of his repeated declarations that nothing could induce him to accept the nomination. This was the great mistake of Platt's career. It was Roosevelt's rapid progress toward popularity and power that led Platt to suggest him for the vice-presidency, hoping that in the quiet of that dignified office he might be forgotten. But Roosevelt became president, through the assassin's bullet, and Platt went down to defeat as the Roosevelt star rose. He outlived his time and political conferees and toward the end of his life became involved in scandal with a government clerk, who alleged that he had married her in secret but refused to recognize her in public. Senator Platt was a stickler for organization and will be remembered longest for the business systems he introduced into the game of politics.

COMMANDER PEARY has declined to submit to congress the proofs of his discovery of the North Pole, claiming that he has entered into a contract with publishers for the exclusive use of this matter. The sub-committee of the house, to which the proposition to advance Peary to an admiralty has been referred, is insisting that he make the proofs public, holding that as an officer of the navy he is serving the public and receiving pay therefrom and should not reap personal financial reward from public services. On the other hand, several members of congress, led by Representative Hobson, the man who sank the Merrimac, are claiming that such promotion is only small reward for the remarkable

services of Commander Peary. It is a well-known fact that Peary has devoted the greater part of the last twenty-three years to struggling toward the pole and has used up his salary, his own fortune and his wife's fortune and all the money which he has earned on the lecture platform, and by literary work. It would seem only fair and just that he should reap some financial benefit from the discovery of the pole. A compromise might be effected by exhibiting his proofs to the proper authorities in congress, with the understanding that no particulars were to be made public.

THE administration's railroad bill has been reported out by the senate committee on interstate commerce, and will come up for immediate discussion. The bill follows out the ideas advanced by President Taft in his special message to congress, the chief features being the establishment of a special interstate commerce court which shall hear all complaints alleging infraction of the interstate commerce law by railroads and provisions in regard to the interstate commerce commission's authority over railroad rates when announced by the railroads, but before put into effect. President Taft is insisting that this measure become a law, and it is highly probable that by his influence it will be enacted at an early date.

FOUR tons of eggs, intended for use in bakers' cakes and pies, were taken from a Boston cold storage warehouse on complaint of the government food inspector, and are said to constitute the largest seizure of the kind ever made. The eggs had been removed from their shells and it is alleged had been treated with carbolic acid. Had they been in good condition the eggs would have been worth \$3,000. The shipment was made from a Chicago firm. This seizure is simply in line with the government's crusade against unfit foods, to protect the public from the cupidity of unprincipled dealers. Considerable headway has been made in the past few months along these lines, but the Boston incident is the most notable that has come to light for some time.

THE strike situation in Philadelphia has become more serious. In the beginning the traction employees went out on account of a difference over their pay. After the strike had been in progress for a couple of weeks a sympathetic strike was ordered and 75,000 union men, representing practically every trade and craft in the city, laid down their tools and announced that they would not return to work until the traction company had acceded to the demands of the traction employees. This deadlock continued for a week or more, and finally threat was made that every union laboring man in the entire state of Pennsylvania would be called out. This is the situation at present, with both sides absolutely refusing to make any concessions. The large business houses have endeavored to arbitrate, as the strike is seriously affecting business, but no headway has yet been made.

The farmer's end of the high cost of living proposition will right itself as soon as better seasons for grain growing return. It must be remembered that the last seven or eight seasons have been rather wet in many localities so that crops have been rather short. The prices of live stock were kept down until the bubble burst on account of the forced shortage in the supply. It will take some time for these things to right themselves, but there is no danger of our starving just yet.

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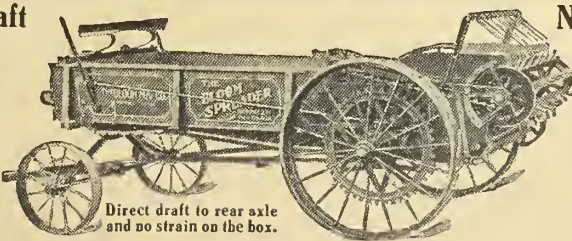
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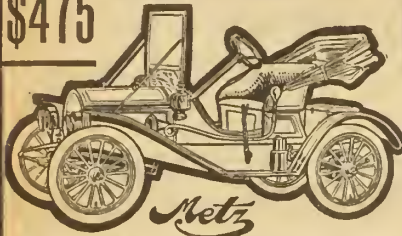
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ADVANTAGES OF GOOD ROADS.

To the Editor of The Homestead:

Fifty years ago there was some excuse for bad roads, for the country was new and poor. Now there is no excuse, for the people are well to do and are able to provide the roads. A good road is always to be desired. It is a real source of comfort to travel over the level highway, while it is a source of aggravation to go bumping along over rough and rutty roads.

A larger load can be drawn by one horse over a good road than by a team of horses over a bad one. This of course will save horse flesh for the farmer. A first-class road then will save in the conservation of the strength of the work horse.

Good roads improve the value of farm lands along their route. I have visited good farms, but the roads that led to it were so bad that they really made the land undesirable. It is claimed by many farmers that land lying five miles from market and connected by a bad road is of much less value than a farm of similar soil but connected to the town by a level road.

Good roads attract population while bad roads drive the prospective settler from the neighborhood. Last summer I went to see a place my brother-in-law was thinking of purchasing. It was quite a distance from town and over the roughest road I ever traveled. Of course, I discouraged my brother-in-law in his idea of buying the farm, and he turned away from the man who had it to sell. Bad roads upset the deal. Not long ago I purchased a farm near a growing town, and the one thing I especially took notice of was the splendid thoroughfare leading out to it. The neighborhood is well settled, and there are some farmers out there who own automobiles. Good roads have been an incentive to buyers who have come to look for homes.

Then good roads encourage the exchange of products between sections or communities. One community is often shut off from another simply because the highway between them was almost impassable. I remember two communities that joined. Only a small stream of water between them, but they might as well have been as far apart as Dan and Beersheba, for they had no dealings with each other. In the first place, there was no bridge spanning the stream and the ford was almost impassable. The road was a narrow lane, and half the time it was full of ditches making it practically impossible to draw a load from one community to the other.

Now, some things are essential to good roads. The first and most important is a deep seated desire of the farmers along the way to have a good road. This will cause them to give work for the improvement of the highway. I have known farmers who kept drags and harrows handy so that they might run them over the road and level it down when it became rough. I have seen farmers out with their teams dragging and harrowing the roads after they had been cut up by a lot of heavy hauling when they were soft. Then there must be a system inaugurated by law or common consent of the community for keeping the roads in good condition. An overseer is necessary, and he must have the hearty co-operation of all farmers in his jurisdiction. Then furnished with proper tools and a "good roads" spirit and the co-operation of the farmers he can transform the poor roads into level highways a blessing to the farmers, their teams, and the community in general. W. D. Neale.

There are many who prefer the lye hominy, so here is a very good plan for making it. White corn is preferable, for while some use the yellow corn it is not considered quite so tender or so suitable in appearance. Take eight clean ears of white corn and shell into a vessel. Into a gallon of water pour four heaping tablespoonfuls of pulverized lye. Put on the stove and let come to a boil then pour in the corn. Stir it well and cook until the eyes or black spots on ends of grains are loose. This will take about one-half an hour. Put a few grains into a saucer of water and try them with the thumb nail, and if black spots come off easily, remove corn

from stove and pour cold water over it, stirring it rapidly and turning water off as fast as possible until two or three buckets of water have been used. Keep rinsing in water until it is clean, keeping it well stirred all the time.

When cooking, it is best to change the water after it has boiled for a time. Let it cook slowly. It will keep a long time in cold weather after the hulls are off and before it is cooked for table use.

BEES AND SPRAYING.

Will spraying the apple blooms hurt the honey bees? Poison sprays used while fruit trees are in full bloom will kill many bees, hence has grown up the custom of spraying before and after blooming, but never while the bloom is on. In some states there are laws to protect the bees. Also spraying during bloom is bad for the fruit crop, for it washes off the pollen and hinders the setting of fruit. Therefore, on both considerations, avoid spraying at blooming time.



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and require little care. All the little honey-gatherers and money-makers demand of you is to provide a home for them. They make the honey and you get the profit. What little work you must do can be made 100 per cent. easier and your profits 100 per cent. bigger if you have the

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This offer means just exactly what it says. I will **GIVE** you, absolutely without cost, one of my celebrated Cy Fender Adjusters, just simply to get them introduced into your neighborhood.

All I ask in return is that you show it to your neighbors and tell them how well it works. For you can't tell them anything else. It's the greatest thing ever made for a farmer to put on his corn cultivator. This Cy Fender Adjuster is made especially for the Janesville Disk Cultivator which I believe to be the best made. I want to make a phenomenal sale this year; the quickest way I can do it is to let the farmers see how it works. I haven't space here for testimonials; if I had I could fill this page with them. **I WANT THE CY FENDER ADJUSTER TO DO ITS OWN TALKING.** With it you can do much better plowing—you can instantly lower or raise your fenders to suit your various heights of corn without checking the speed of your team one particle. By raising it, which is done instantly, you can clean the higher corn. By lowering it, you can protect the smaller corn, or any that is washed or leaning.

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That part of Nebraska south of the Platte river or the North Platte river.

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All that is necessary is to send a statement signed by your postmaster, mail carrier or implement dealer to the effect that you are actively farming and that you use a Janesville Disk Cultivator, mail it to me with your name, and you'll get a free Fender Adjuster if you're first. This advertisement will not appear again; write today. A postal card will do.

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Plenty of it at that price and some of the best for \$20. Enough rain, just at the times you need it, to produce big profit—grass and alfalfa crops three times a year.

Enough sunshine in between to yield an average of 30 bushels of corn—8 tons of sorghum cane—800 pounds of beans—over a ton of broom corn—20 bushels of wheat—no less than 30 bushels of oats, rye and barley and 100 bushels of potatoes to the acre.

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of unimproved land in Northern Texas, Northwestern Oklahoma, Northeastern New Mexico and Southwestern Kansas. Near the big markets, therefore low freight rates.

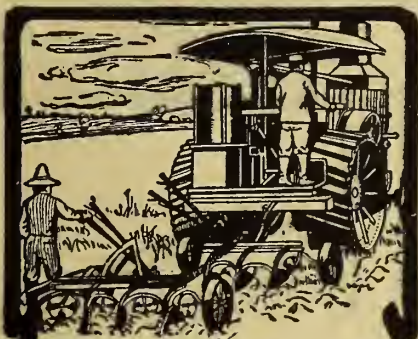
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Tell me the sort of farming you prefer and I'll tell you where conditions are ideal to make more money with less hardships than you can on high priced land at home.

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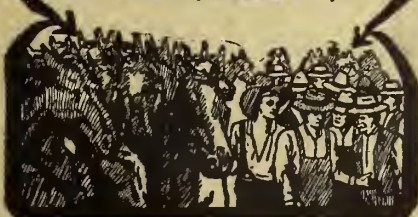


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FARMERS SHOULD PACK THEIR OWN MEATS.

To the Editor of The Homestead:

The high price of the meat problem is in the hands of the farmers themselves, although they lack a whole lot of sharing equally in the prices. Forty years ago every farmer put down the meat for his own use for a year in advance and he knew how to do it so it would keep, and had better meat than can be bought today to suit the taste of the average man of sixty years. Why? Because nearly all farmers were pork eaters and liked it far better than they did beef. The farmer butchered his hogs in November, three or four of them at a time, salted the side pork, had all the fresh meat the family could use all winter in addition to the sausage, headcheese, "souse," etc., that all good housewives knew so well how to make. The hams and shoulders and what bacon he wanted were pickled, or dry salted for three weeks and then smoked. This would keep in the cellar or smokehouse until May; if buried in the oats it would keep until the middle of July. As much of the fat meat as was wanted for lard was tried out. And then there was the salted meat to cook with beans, greens, etc., and what farmer did not relish it at all times? Fried down crisp, the grease taken off and then cream poured over it. I have seen "beef eaters" call for the fourth slice and declare they never ate any meat so good and today four-fifths of the people turn up their noses at the words "fat pork." It all depends on how it is cured and cooked, although some, of course, abhor it.

We have developed a race of beef eaters and hundreds that ought to raise a pig or two patronize the meat markets where they get their meat "on time" and those who pay their bills have to pay these, too. This is true of almost any country meat market. There is enough wasted in any ordinary family each day to more than keep a pig. And some of them waste enough to keep two.

Forty years ago we had beef if we wanted it from November to June, when we had an ice house, and our fathers "corned" down enough to last through the summer. A fat sheep, now and then, by exchanging "quarters" with the neighbors through the hottest weather, and more vegetables eaten through the summer made far healthier people as a general thing. This, of course, refers to the country from Tennessee north. The butcher shops did not cater any to a farmer trade, for there was none. The farmer was a meat producer and not a meat buyer. Today a piece of farm-cured ham or bacon is a rarity and something we are willing to pay two prices to secure where we find a farmer who knows how to handle and preserve meat. Ham can be kept the year around by cooking it and putting it down in its own grease and when taken out and freshened a little it is far better than any ham in the market preserved by rubbing it with "smoke" or some other preparation of creosote. Good corn cobs or hickory bark will never be improved on as a "smoker" for hams.

The farmer helps to make meats high by shipping his meat to Chicago alive and back again and paying three or four "middlemen" to do what he ought to have done himself and done better at just about one-half the cost. So much for the farmers themselves and their assistance in making high prices.

Another phase is the tradesman or laborer who lives in the suburbs of the country towns or on lots where there is no reason why he cannot keep a pig if he uses any care to keep it from being a nuisance to his neighbor, which can easily be done by a little care. He should raise his own meat, even though he does not "like pork," as a means of saving that which is ordinarily thrown away. The ordering of meat by telephone is another piece of foolishness. The place to buy meat, if you are going to buy it, is at the market where you can see what you are getting, and know whether it is weighed or merely guessed at.

Pork costs as much or more than beef at the present, but it does not

cost more than half as much to raise two hogs as it does to raise the same heft of beef, because a lot of waste can go into the hog that will be of no use in beefmaking. The delivery boy is not working for nothing, neither is the butcher keeping a couple of horses for this purpose for nothing.

We are too well off. If we used the same economy that our fathers did and waited on ourselves a little more, the number of hogs raised would be nearly doubled, and yet there would

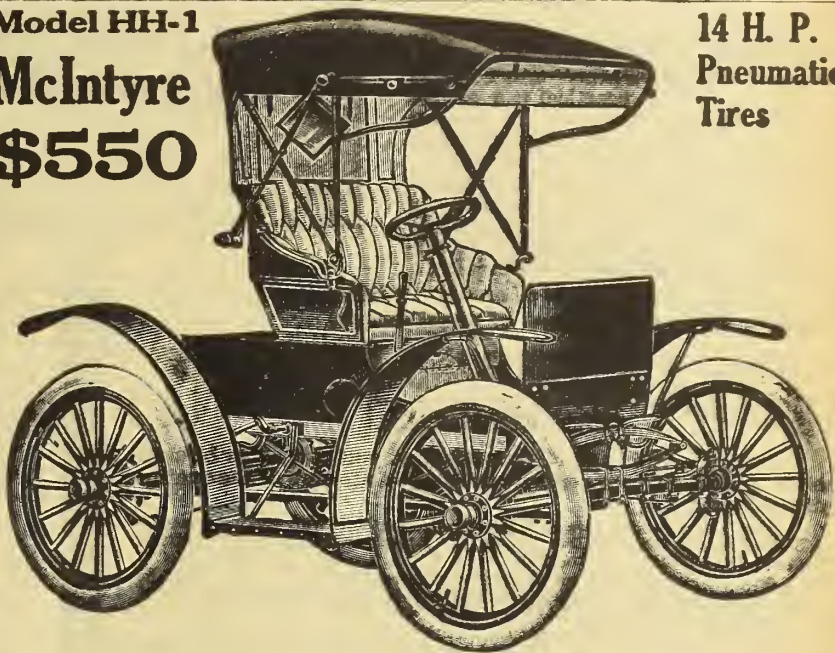
be as many shipped, the difference being that few of them would be shipped back.

The next thing in economy is, if we are bound to patronize the meat markets for our meats, let us also pack it at home-packing houses and not give it "too much ride" before getting it into the frying pans or the broilers. When the price of pork is adjusted the price of butter will adjust itself—that is another thing that should be kept in mind.

E. N. Bailey.

Model HH-1

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You can figure the purchase of a McIntyre on the same basis that you would figure investing in any other machine for your farm—on the basis of having it save time and expense.

The tendency in automobile prices is altogether downward. Many manufacturers have reduced their prices who really cannot afford to. For this reason—

They have spent so much money in experimenting and perfecting the mechanical details of their cars, erecting plants, installing machinery, etc., that what they call their "overhead expense," is so high that they must necessarily sell at a high price to make any money.

When they reduce their price the value has to come out of the car.

When you buy a McIntyre you buy a high-grade car, but you pay only for what's in the car. We avoided the expense of erecting factories, installing machinery, and a large part of the experimental work.

We entered the field already equipped. The McIntyre Company has been building wagons and buggies since 1869. Its product is known the world over for quality. When motor vehicles were finally perfected, the McIntyre Company who, during the experimental stage of the game, had been quietly studying the situation and profiting by the mistakes of others—acquired in one purchase at the lowest possible cost, the small amount of additional machinery which, with

the equipment they already had, enabled them to turn out a first-class car.

We have told you all this because we don't want you to confuse the McIntyre with ordinary low-priced cars.

The 14 H.P. McIntyre Motor Buggy With Pneumatic Tires At \$550.00

is the most economical, satisfactory motor buggy made. The cost of gasoline to operate it is less than the cost of keeping even one horse. It's much faster, safer, surer, always ready and never tired. We are the largest manufacturers of motor buggies in the world and we have yet to hear of a purchaser who does not figure his purchase of a McIntyre as a profitable investment.

The McIntyre Line

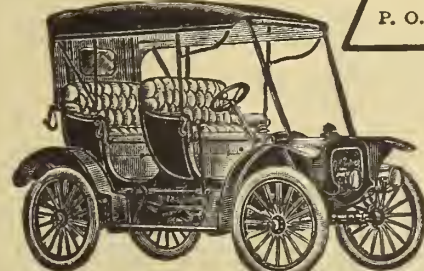
includes a car for every purpose. All cars are guaranteed for one year, and of course are licensed under the Selden Patent. The 1910 models have a grace and beauty of design not surpassed in the highest priced cars. Added to this is absolute, dependable service—the latest practical advanced ideas in mechanical construction, beauty or finish—perfect appointment and complete equipment. You owe it to yourself to investigate these cars. Fill out the coupon. Mail it today for free book 12

W. H. McIntyre Co., Auburn, Indiana
Kansas City Branch 1730 Grand Ave. Minneapolis Branch 418 3rd Ave.

Wm. H. McIntyre Co., Auburn, Ind.
Dear Sirs:—Without obligation on my part send me free book, prices and full particulars on McIntyre Motor Cars. 12

Name.....

P. O.....



Model T-1—\$925

Four-passenger surrey, 18 H. P., two-cylinder opposed air cooled valve in head type motor, bore 4 1/2, stroke 4 1/2. Wheels artillery type. Tires 30x3 in. pneumatic. Fully equipped with top, oil lamps, horn, fenders, tools, etc



Model NN-1—\$800

Rear seat may be either single or double bucket, rumble or duplicate of front seat as shown. Motor—18 H. P. two-cylinder opposed, air cooled valve in head type motor, bore 4 1/2, stroke 4 1/2. Wheels—Savien. Tires 30x3 in. pneumatic. Fully equipped with fenders, oil lamps, horn, tools etc.

Any of these machines can be equipped with Solid Tires, if desired, at a reduced cost or furnished with two sets of wheels at a small additional cost so they may be used with solid tires in the winter when the roads are bad and muddy and with pneumatic tires in the summer when the roads are good.



GET MY COMBINATION PRICE

Galloway All Steel Flexible Harrow and Galloway All Steel Harrow Cart. Every possible improvement. Greatest harrowing combination ever offered. Both perfect. Have made more harrow carts than all others put together. Sell direct to you at price the very lowest. Get my special offer.

Wm. Galloway President
WILLIAM GALLOWAY COMPANY, DESK NO. 10, WATERLOO, IOWA

Walk on concrete; not in mud.
Concrete walks from the house
to the outbuildings mean
dry feet and a clean house.

A Hundred Uses for Concrete

Our interesting, illustrated book, "Concrete Construction About the Home and on the Farm," tells how any farmer can make practical use of this modern building material. It contains 168 pages, written in easy-to-understand language, and filled with diagrams, plans, specifications and photographs of actual farm structures built of concrete. It shows how to make concrete stables, silos, barns, drinking troughs, root cellars, piggeries and other outbuildings.

This handsome manual of concrete building is offered free of charge. Write for it to-day. A postal will do.

ATLAS PORTLAND CEMENT

Makes The Best Concrete

Cement is the basis of concrete, and you can never be sure of the quality of your concrete unless you are sure of the quality of your cement.

That's why progressive farmers who are building with concrete specify ATLAS Portland Cement. It is the standard American brand, always uniform in color, composition and strength.

ATLAS Portland Cement is made of genuine Portland Cement rock. It contains no furnace slag. There is only one quality of ATLAS manufactured—the best that can be made and the same for everybody.

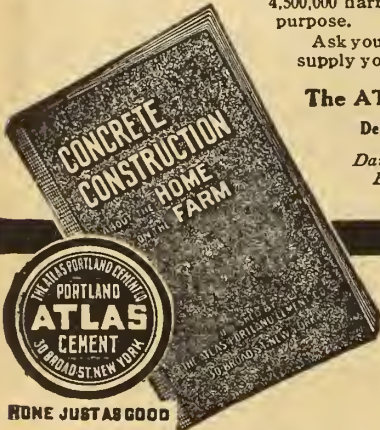
The United States Government is using ATLAS on the Panama Canal. 4,500,000 barrels having been ordered for that purpose.

Ask your dealer for ATLAS. If he cannot supply you write to

The ATLAS Portland CEMENT Co.

Dept. 111 30 Broad Street, New York

Daily Productive Capacity over 50,000 Barrels—the Largest in the World.



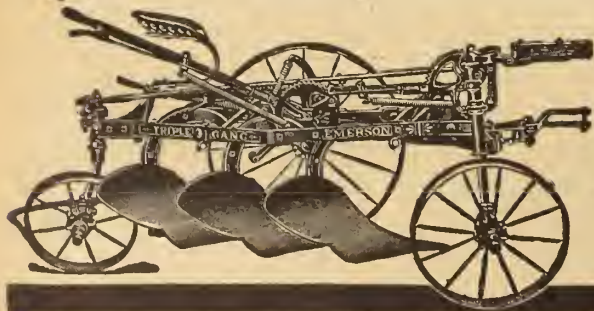
This Cement book is free. It contains 168 pages and over 150 illustrations.

Save \$80 in 20 Days' Plowing

YOU can save \$80 in 20 days' plowing by using an Emerson Foot-Lift Triple Gang, which turns three 14-inch furrows at a time, and with which one man works six or seven horses as against the two-horse, one-man walking plow. With the Emerson Foot-Lift Two-bottom Gang, using four horses, you save \$50, or with an Emerson Foot-Lift 16-inch Sulky, using three horses, you save \$10. These figures are based on the low price of \$1.00 per acre for plowing and 50 cents per day per horse. And what is better than the money saved is that you come from the field at night feeling fresh and happy ready to give your horses proper care, and to greet your wife and family with a smile and a pleasant word, instead of feeling worn out from trudging all day in the furrow. It pays to have the hired man use the

EMERSON TRIPLE-GANG PLOW

or any other Emerson Plow. The good men stay with you instead of looking elsewhere. Emerson Foot-Lift Plows help keep the boy on the farm by making his work pleasant for him. They are Easy on you or the boy because the feet handle the plow, leaving both hands free to manage the team. Easy on your horses because the 2000-mile wheel boxes carry the load on thoroughly lubricated wheel bearings, mostly on the two large wheels—the wheels nearest the team. Bearings running in oil must run light and prove durable. Easy on your pocketbook because they are made to last as long as you live.



Write Today for Free Book

Just a postal will do. Send it now—even if you don't intend to buy right away. It will pay you to have our book on hand to refer to—to compare values. If interested, also ask about our new Famous Standard Wide-Cut Mowers.

Emerson-Brantingham Co.
Formerly Emerson Mfg. Co.
Farm Implement Builders since 1852
ROCKFORD ILLINOIS

GROW 100 Bushel CORN



Keller's Rotary Corn Planter Gauge

—can be clamped to the runners of any corn planter, and the shoe will cut just so deep, no matter what the speed or how uneven the ground. ALL your corn will grow because planted just the right depth, and YOU can harvest 100 bushels per acre as easily as have scores of corn-belt farmers whose names we'll send you. Price of Gauges \$5 per set. Get our money-making proposition which puts dollars in your pocket, yet won't take an hour of your time or work. FREE BOOKLET tells all—send for it to-day—no letter needed—just send your name and address to

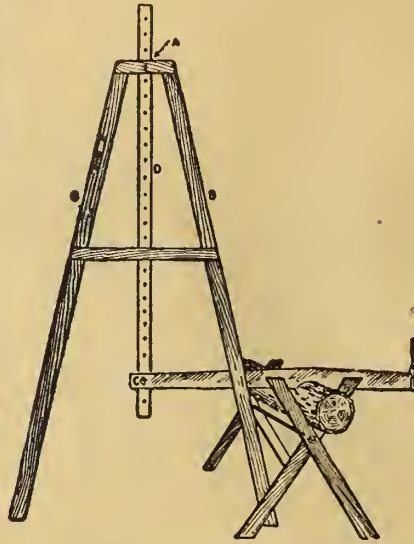
P. O. KELLER MFG. CO., Waterloo, Iowa

HINTS-SUGGESTIONS-DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A HARD-TIMES HIRED HAND.

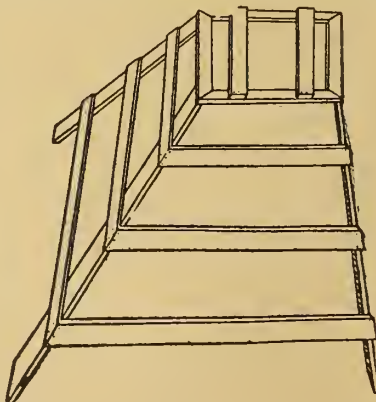
Sometimes it is impossible to get any help for sawing wood and I am sending a device which I think is very practical. Three poles make a frame



for the saw to swing on (as B), another pole (D) fastened by a bolt at the top of the frame (A), plays inside two pieces of board (at A). The saw is made fast at the lower end of this as shown at C, and it will swing back and forth as shown in the cut. B-B are nine feet long and the other pole which is not shown is ten feet. The pendulum on which the saw is fastened is eight feet long and has holes so it can easily be raised or lowered.

Creeping Vine Frame.

A very nice frame for creeping vines is made in pyramid shape. Leaving it open to the north, next summer when it gets well covered with plant foliage, it will be an ideal place for the childrens' play house. For the four

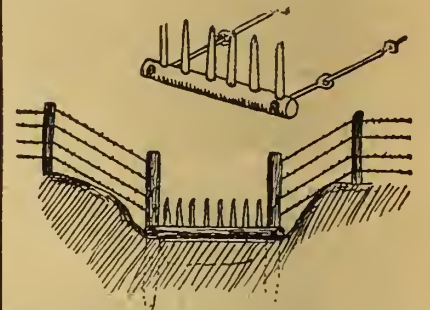


corners use 1x4s, setting them in the ground about one foot, and extend them up about five feet. One may use his own judgment about the distance apart to set them; it depending upon the ability of the vines one wishes to train, as it is much nicer to have a small frame well covered, than a large frame half covered. The frame at the top should be 2x4s. Lath or two-inch strips may be used for stripping.

Flood Gate.

A short time ago I saw an inquiry for cut of a water gate or flood gate, writes B. L. Lellard, of Graettinger, Iowa. I saw one exhibited at a fair about thirty years ago that I will vouch for, as I put one in a stream that was always washing them out. This one was there after three years and had never failed to do the work. It is very simple: Two posts large enough and long enough to resist the pressure of the water (I would advise setting them in concrete); one timber sufficiently long to reach from bank to bank. This will have to be sufficiently strong to resist the pressure of the water running over it. I used a native tree about eight inches in diameter and thirty feet long. This will give

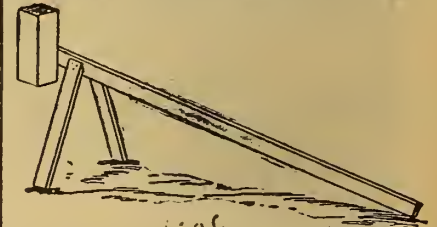
you some idea of the strength required. You will then need two sets of eye bolts in proportion to posts and log. You will also want a wooden stake three or more feet in length for each foot of length across stream. There are holes in the log a foot apart for the upright pins. The eye bolts that fasten log to posts answer as hinges. The log must be put on the up-stream side of the posts as near the bottom as possible to keep the logs from going under it. When the water rises it lifts the weight of the log,



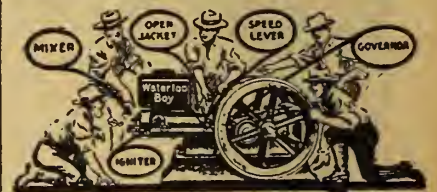
and presses against the pins, which causes the log to tip on the eye bolts and the pins point downstream. When the water recedes the weight of the log should exceed that of pins so it will right itself.

Mail Box Device.

I send you herewith a very practical device for a mail box support. When access to the box is impossible for drifts it can be drawn up and taken



to another location. Take a piece of board ten or twelve feet long and nail to one end two legs four feet long and about one foot from the end.



17 YEARS ON THE MARKET. THE WATERLOO BOY HAS ALL THE GOOD POINTS THAT GO INTO ANY GASOLINE ENGINE. 5 YEAR GUARANTEE.

All gasoline engines have some good points, or there would be no sale for them and they would soon be taken off the market. Some engines have more good points than others, that's why some engines are better than others.

WATERLOO BOY GASOLINE ENGINES

have all the good points that go into any gasoline engine, besides many exclusive, patented features that increase their efficiency and durability; make them marvels of simplicity and wonderfully economical engines to operate. That's why we say the Waterloo Boy is the best engine for farm use. You can buy a Waterloo Boy for less money than you will be asked for engines containing half of the good points we build into our engines. Besides we will send a Waterloo Boy to any responsible farmer and let him try it for thirty days on his farm, doing whatever work he has to do. We will pay the freight both ways and return his money if after a month's use he cannot pick out the good points for himself—if he can't see that it is the one and only engine that will give him complete satisfaction. Better write us today for our catalog and free trial offer.

Waterloo Gasoline Engine Co.,
279 W. Third Ave., Waterloo, Iowa.

YEARLY CAPACITY 15,000 ENGINES. 30 DAYS FREE TRIAL.



\$8,500 for one invention. Book, "How to Obtain a Patent" and "What to Invent" sent free. Send rough sketch for free report as to patentability. Patents advertised for sale at our expense in fourteen Manufacturers' Journals. Patent Obtained or Fee Returned. CHANDLER & CHANDLER, Patent Att'ys. Established 16 Years. 949 F. Street, Washington, D. C.

153 Bushels of Corn Raised On One Acre

This Proves That Seed Corn Testing Pays

John Sunberg, President of Iowa Corn Growers' Association, has established a new record by raising 153 bus. of corn on one acre.

It's a great achievement. It demonstrates what a little extra care will do. It proves conclusively that the majority of corn growers—those who are indifferent—those who rely on their judgment in selecting seed corn and only get 30 to 50 bushels of corn per acre—are losing more than they make—two-thirds of their time and labor are being wasted.

Even if you can't equal Mr. Sunberg's record, you can increase your corn yield 20 to 40 bushels per acre. Hundreds of farmers are doing it. They test their seed corn with Holden's Ideal Water Tester.

It's the safest and surest. By this method the strong, hard kernels have a chance to become as thoroughly soaked as the weak, starchy kernels—and under these conditions the strong kernels grow faster than the weak. By other methods the result is just the opposite. The weak, starchy kernels absorb moisture quickest, consequently sprout first, the strongest ones being slower in sprouting are discarded as unfit to plant, with the result that the kernels from weak ears are planted. To be safe do as the biggest corn growers do—test with Holden's Ideal Tester.

Holden's Ideal Corn Tester

**Pays For Itself on Every Acre of Corn Planted
Endorsed by Leading Corn Experts and Corn Growers**

The Iowa Agricultural College, at Ames, tests all their seed corn in the Holden Ideal Water Tester.

It was the official tester of the Iowa State Corn Show held in Des Moines and Ames Corn Show and Short Course.

Mr. Sunberg, who took the prize for raising 153 bushels of corn on one acre, uses it.

C. O. Garrett, who grew the grand champion \$160 ear at Des Moines, uses it.

Every official corn judge in Iowa uses it. Why not use what has been demonstrated to be the best?

All you have to do is to fill the tester—about an hour's work, that is all the attention it requires until the test is over. Take six kernels from an ear and put in first little cup. Mark ear No. 1. Take six kernels from the second ear, put in cup No. 2 and so on until the four trays are full. Mark the ears either by laying on the floor or put in a drying rack—marking rack with pencil. Put the four trays in the germination box—one on top of another and fill the box with warm water. Place in warm room for 24 hours—then draw off water by pulling plug in bottom of box—replace cover and let stand for three days. On opening the tester the seed from good ears fit to plant will have sprouted. Save those ears and discard the rest. Seed from poor ears will show very weak sprouts and practically no roots. These are absolutely worthless.

That's simple and also interesting and a good deal better to spend the time now than later to wish you had tested your corn. This test is absolutely sure. Your judgment may be good, but it is not safe to depend upon. Fine looking ears are very deceiving. By testing every ear selected for seed with Holden's Ideal Water Tester—you cannot fail to have good seed.

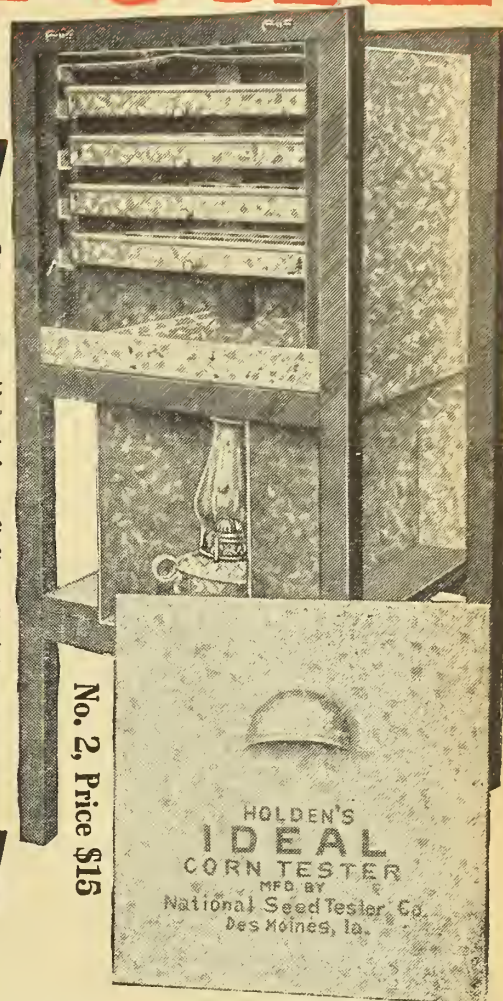
Your Last Chance---Hurry!

Fill out coupon and mail it, with money order for \$10 for a No. 1 Box Tester, 5-bushel capacity, or \$15 for No. 2, 5-bushel Cabinet Tester; \$25 for No. 3, 10-bushel Cabinet Tester, or \$5 for No. 4, 2 1-2 bushel Tester. We will fill your order immediately. When it arrives, take it home, examine it, test a batch of seed corn. If it fails to do all we claim; if it's not satisfactory, simple, accurate, easy to operate, crate it up and send it back. We'll refund your money promptly.

By doing this you save time. You take no risk, because we are absolutely reliable. Satisfy yourself on this point by writing to the publisher of this paper, any bank or business house in Des Moines.

If you want more information about our tester, fill out and send coupon today. We'll mail you catalog and full particulars. Do it today. Time is flying. Planting time will be here before you know it. And it will be worth hundreds of dollars to you to be ready with strong, healthy seed corn, tested with Holden's Ideal Tester.

Don't delay—get your order in at once.



Mr. John Sunberg, President Iowa Corn Growers' Association, who raised 153 bushels of corn on one acre, says:

"The important thing is the testing. I use the Holden Tester, made by the National Seed Tester Co., Des Moines, Iowa. I prefer this kind of tester over the sawdust tester, for the reason that it insures a uniform test. Unless every kernel of the sample I test produces at least four vigorous roots, I feed the ear from which the sample kernels were taken to the hogs."

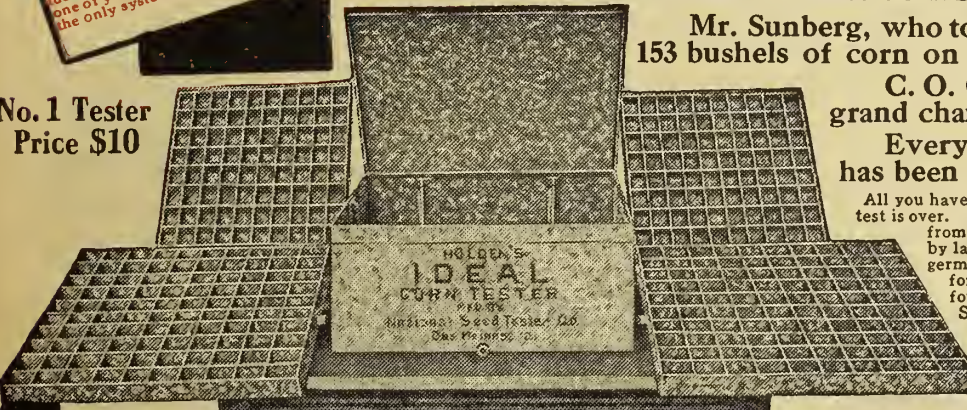
Somers, Iowa.
Dear Sirs:—I have taken off two testers full and find that my seed corn is very poor. as good care of my seed as any one could have taken with it but of course didn't save any until after October 13th. The tester I think is O. K. You are at liberty to use my name and results, if you wish to publish them. Yours truly, C. E. Martin

Forest City, Iowa.
Dear Sirs:—I have tried your Holden tester and am well pleased. I find the seed corn very poor. I have tested 5 bushels and find about 30 per cent goes out. Yours truly, T. C. Jacobson.

Emmetsburg, Iowa.
I am very well pleased with my tester and would not part with it at any price, if I could not get another. I had my neighbor's dirt tester but like this lots better. My corn was planted early in May on clover sod and very nice corn and only 30 per cent would grow. You can depend on several orders from my neighbors. Yours truly, P. C. Duer.

Radcliffe, Iowa.
Gentlemen:—I have tested once with my testers and I am well satisfied. Only 60 per cent of a stand I would have without what kind corn. Yours truly, J. R. Johnson, R. 4.

Mitchellville, Iowa.
Dear Sirs:—The seed that grew grand champion ears at Des Moines, also at the Junior Show at Ames, January, 1910, was tested in Holden's Ideal Tester. In fact, I test all of my corn with one of your cabinet testers. You certainly have the only system worth while. Yours very truly, Chas. O. Garrett.



Over 250 Banks, Elevators and Local Merchants are Using Holden's Ideal Tester to Test Samples of Corn for Their Patrons.

Ten to twenty ears are tested for from twenty to forty different farmers. Following are the results of a few of these tests. Remember corn furnished by twenty to forty farmers is covered so the test is really a fair showing of the conditions of corn in the whole neighborhood.

Wayne County State Bank, Corydon, Iowa, tested 283 ears which showed 131 good, 81 weak, 69 dead. 47 per cent fit to plant.

Farmers' Bank, Gardner, Iowa, tested 399 ears, had 179 good, 135 weak, 85 dead. 45 per cent fit to plant.

E. C. Merrill, Bagley, Iowa, tested 399 ears, had 96 good, 297 weak, 96 dead. 24 per cent fit to plant.

Grant Ostram, Hartwick, Iowa, tested 600 ears, found 85 good, 343 weak, 172 dead. 14 per cent or one out of 7 ears fit to plant. He states that the seed corn situation is much worse than those who have not made exhaustive tests suspect.

D. H. Eblin, Massena, Iowa, tested 400 ears, had 75 good, 82 weak, 243 dead. 19 per cent or one out of 5 ears fit to plant. He states that this corn was picked from the crib.

These are only fair samples. We have reports from hundreds and hundreds, in fact, several thousands of farmers.

First National Bank, Havelock, Iowa, tested 400 ears and had 5 good, 78 weak, 317 dead. Think of it! As much corn would be grown on 16 acres where good seed is planted as on 80 acres planted with such seed as this, even counting the 78 weak ears as good. That is only 20 per cent of this corn grown at all and 9 ears out of every 10 of that was weak.

Peter C. Back, Hartley, Iowa, tested 400 ears, had 190 good, 63 weak, 147 dead. 49 per cent fit to plant. He also states that the tester does all we claim for it.

Alex Nielson, Traer, Iowa, tested 400 ears, had 121 good, 44 weak, 235 dead. 59 per cent dead or only 4 ears out of 10 fit to plant.

Peter H. Kanler, Van Horn, Iowa, tested 400 ears, had 92 good, 158 weak, 150 dead. Only 23 ears out of each 100 fit to plant.

National Seed Tester Co., 1190 Walnut Street Des Moines, Ia.

**National Seed Tester Co.,
1190 Walnut Street, Des Moines, Iowa.**
Gentlemen—Enclosed find \$_____ for one of your No. _____ Holden's Ideal Testers, or send me your FREE Catalog and Book on Testing.
Name _____
Town _____
State _____
R. F. D. _____

PERCHERON REGISTRATION.

At a meeting of the board of directors of the Percheron Society of America held in Chicago in October, 1909, it was decided that after January 22, 1910, applications for the registry of animals must conform to the following rules:

Section 1. The president, after each annual meeting, shall appoint a pedigree committee, consisting of not less than three members of the association. It shall be the duty of such pedigree committee to investigate all applications referred to them by the secretary, or in any cases where doubt has been raised as to the correctness of any pedigree. It shall also be their duty to carefully look into and examine all applications for pedigrees referred to such committee by the secretary and they will have power and authority to employ assistants in making investigations or otherwise in the discharge of their duty, and they shall have power to reject any application for a pedigree when in their judgment the same is based upon misrepresentation or is in any respect irregular or wrong; provided in case of rejection of questioned pedigrees the applicant may appeal to the board of directors.

Sec. 2. For recording American-bred animals when recorded before September 1st of the year following the date of foaling: Members, \$2; non-members, \$5.

For imported animals when recorded within three months after their importation: Members, \$5; non-members, \$10.

Sec. 3. The secretary shall not accept any application for registration of an American-bred animal after September 1st of the year following the date of foaling or of an imported animal that has been imported more than three months. When any such applications are filed with him, he shall refer the same to the pedigree committee. It shall then be the duty of the pedigree committee to thoroughly investigate all the facts concerning such applications and to reject all such applications unless they find the same to be correct in every particular, and the party making the same shows good and sufficient excuse for his failure to file same within the time provided by the by-laws of the association. In case the committee accepts any such applications, they shall properly endorse their approval of such applications on the same before referring them back to the secretary, and it shall be the duty of the secretary in all such cases to collect in place of the regular fee specified in Section 2 the following special fee for each registration: For recording American-bred animals when recorded after September 1st of the year following the date of foaling: Members, \$9; non-members, \$14. For imported animals, if recorded more than three months after their importation: Members, \$15; non-members, \$20.

The recent ruling of the board very properly makes it more difficult and expensive to register either American-bred or imported animals after the lapse of a given time. It is certainly a step in the right direction and should tend to minimize deception of any sort. Naturally occasions may arise which prevent the early registrations and for these cases the special review by the pedigree committee has been planned.

CARE OF THE FLOCK OF SHEEP.

To the Editor of The Homestead:

In winter, while restricted to definite parts, sheep are more or less subjected to atmospheric changes, but if conditions are maintained favorable to the body they can endure great severity. With man dry clothing of sufficient protection during severe weather is absolutely important to the maintenance of good health. Allow the body to become unduly exposed and evidence of natural derangement of the functions of the body becomes apparent.

The sheep is an animal subject to like influences under similar conditions. While the body may withstand dampness to a greater degree, results deleterious to the health sooner or later become manifest when they are subjected to undue exposure. During winter sheep should be protected from storms of all kinds. Severe cold weather does not greatly affect the body temperature so long as the fleece is dry, but in case the fleece becomes soaked the functions of the body are impaired.

The flockmaster who is desirous of producing a high class of wool should guard against exposure of the flock to snow or rain storms. If particular

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

FOR SALE—Marquette county, Wisconsin, improved dairy farms at great bargains, ready for immediate possession. 120 acres, 2 miles from court house of Marquette, Wis. Fine buildings; price \$10,000. 131 acres adjoining Porterfield, Wis., 60 acres cleared; good buildings; price \$6,500. 160 acres 1/2 mile from Porterfield, Wis., 90 acres under cultivation; splendid land; fair buildings, price \$6,500. 300 acres good land adjoining town of Ellis Junction, Wis., 120 acres cleared, in high state of cultivation, balance fine woods pasture; woven wire fence; fine buildings; price \$15,000. We also own 100,000 acres of choice hardwood lands which we will sell in tracts to suit, prices ranging from \$7.50 to \$20 per acre. Write for descriptive booklet and map. We want a few good, live agents—good proposition for the right men. Write for particulars. Skidmore Land Company, "Good Farm Lands," Box 56-C, Marquette, Wisconsin.

FOR SALE—640 acres of the finest western Canada wheat land. One mile from Girvin, Saskatchewan. Four hundred acres cultivated, forty acres meadow, balance prairie. Canadian and American farmers on surrounding farms. Six-room frame house, barn and granary; eight head of stock and a complete outfit of farm implements. Terms: Small cash payment, balance yearly crop payments. Write to the Watch Land Co., 517 Union Bank Building, Winnipeg, Manitoba.

MILLION ACRES Texas School Land for sale by the State; \$1.50 to \$5 per acre; only one-fortieth cash. 40 years on balance; three per cent interest; good agricultural land; some don't require residence; send 50 cents for 1910 Book of Instructions, New State Law and description of lands, J. J. Snyder, School Land Locator, 505 Congress Ave., Austin, Texas. Reference, Austin Nat. Bank.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 10c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

FREE GOVERNMENT farms. Our official 112 page book "Vacant Government Land" describes every acre in every county in U. S. A. million acres vacant. How to secure 160 acres by entry, 1909 diagrams. All about irrigated farms. Price 25c postpaid. Webb Pub. Co. (Sta. 4) St. Paul, Minnesota.

CALIFORNIA LANDS for sale in Sacramento valley. 40-acre orange grove; best proposition on Pacific coast. Fruit and poultry farms. Write for free printed matter. Kelsey, Corning, Cal.

FREE FUEL FARMS. Mild climate, free fuel, natural gas. Prices \$20.00 to \$40.00. Address, Geo. Hill, Independence, Montgomery Co., Kansas.

SNAPS: SOUTH DAKOTA, North Dakota, Montana. Write us your wants. Lists and maps free. P. L. Neister & Co., Sioux Falls, S. D.

IF YOU want good and cheap farm lands, write us. We have them. Walter A. Evans & Company, Kiowa and Prior, Oklahoma.

FOR SALE—Two hundred forty acres; also for rent, good farm; all near Austin, Minnesota. E. G. Sachse, Cherokee, Iowa.

IF SOLD—Possession at once; highly improved Yankton county 200 acre corn farm, long time. A. R. Kerr, Mission Hill, South Dakota.

WRITE for big list of cheap South Dakota lands. Hazlett's Land Agency, Marion, South Dakota.

pains are taken to carefully examine a fleece soon after it becomes drenched it will be observed that the fibers possess a coarse, harsh, indelicate feeling, showing without further examination that the fiber has been injured.

The barn is for the protection of the sheep during winter weather. Yet when we come to look about the large portion of the sheep barns where protection is supposed to be provided, the very trap is there set that causes the ruination of the health of the flock. Drafts in a sheep barn are the worst enemy of good health. They silently destroy the life or usefulness of hundreds of sheep every season.

Alternate doors should never be kept open at the same time during winter. The wind is apt to change almost momentarily and cause a draft that will lay the foundation of some severe ailment. When there are alternate doors in a sheep barn care should be exercised to keep the one open which is opposite from the prevailing wind.

Windows should never be removed, but if possible dropped back from the top, so that in case the wind should change no direct draft would fall on the animals.

Irregular and injudicious care of the ewe flock during the pregnant season is a cause of disaster against which every flock owner should guard. More loss perhaps is suffered annually from this one source alone than from all other combined influences.

I have raised sheep for a good many years and I have had, and still have, remarkably good success. One point that I think too many neglect is the regulation of the feeding hours. I make it a habit to feed regularly and at an appointed hour. Sheep do not demand early feeding in the morning, but they are good timekeepers, and know full well when breakfast time has arrived. Irregular feeding irritates the nervous system, which is intimately associated with the development of the foetus, and may be the means of causing weak, puny offspring at birth.

W. H. Underwood.

REAL ESTATE.

NORTH DAKOTA—The home of the celebrated number one hard wheat; the greatest small-grain country in America, invites the homeseeker. Come, share our prosperity. Investigate the Hampden section, edge of the Red River Valley. Deep, rich soil. Lands improved and unimproved, \$20 to \$35 an acre. Schools, churches, railroads; every social advantage. Easy terms. You will like our country. You can quickly become independent here. Illustrated literature free. Active agents wanted everywhere. Write Shipley Investment Co., Box 303, Hampden, Ramsey Co., North Dakota.

FOR SALE—500 acre farm central Minnesota, 10 room house, two barns, sheep sheds, etc. 250 cultivated, 25 meadow, three milks woven wire fence, fine lake, rural route, phone. Three miles railroad town, eight to St. Cloud. Only \$35, easy terms. 160 acres North Dakota, all ready to plow, small payments, easy terms. 120 acres wild land Benton county, Minnesota, eight miles to town; will accept \$200 cash if improved. W. W. Thayer, St. Cloud, Minnesota.

THE PLACE for you, both for pleasure and profit, is Clackamas county, Oregon. Climate mild, scenery finest, soil most fertile, markets best. Thriving county seat only twelve miles from Portland, metropolitan Pacific Northwest, with connection by river and rail. For illustrated literature write Dept. O, Commercial Club, Oregon City, Oregon.

474 ACRES, 5 houses and 6 barns, 3 of them basement, main house contains 18 rooms finished in hard wood. This stock farm is beautifully and centrally located, being 4 miles from 4 railroad stations; has apple orchard with 400 young trees, greatest bargain ever offered. Price only \$2,000. Lewis Farm Agency, Candor, Tioga Co., N. Y.

148 ACRES OF GOOD farming land in McLean Co., N. D. 41 acres under cultivation, 20 acres meadow, rest all good farm land. Grove of 1,600 trees, small house, barn, and granary, 1 1/2 miles from store and P. O. \$2,800.00 if taken before April 15. Gustav Lehn, Maxwell, North Dakota.

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HOMESTEADS, timber claims, coal lands in famous Musselshell Valley, Montana. Reasonable location fees. Ranches, farms and business locations for sale. Musselshell Development Co., Musselshell, Montana.

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SILVER LACED Wyandottes exclusively; winners at several shows. Eggs for hatching, 26, \$1.35; 100, \$3.50. Circular free. John A. Johnson, Route 2, Pilot Mound, Iowa.

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250 STRAWBERRY plants, \$1, in three best varieties. Wholesale prices on nursery stock. Catalog free. John F. Dayton, Waukon, Iowa.

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ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

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LADIES make silicids at home, \$10 per 100. Work sent prepaid to reliable women. Particulars for stamped envelope. Eureka Co., Dept. 32, Kalamazoo, Michigan.

LEARN BARBER TRADE by mail; saves expenses; good wages; expert instructions. Send for free booklet. Modern Barber Institute, Soo, Canada.

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will cut tall grass, short grass and weeds, and do all the trimming along the fence, walks and drives.

If your dealers do not keep them, let us know and we will send circulars and prices.

Clipper Lawn Mower Co.
Dixon, Ill.

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OF DAN PATCH 1:55 MAILED STOCKOWNERS FREE WITH POSTAGE PAID.

THIS IS A SENSATION OF THE WONDERFUL WORLD CHAMPION AND GREATEST TRIUMPH IN THE MARVELOUS AND REALISTIC MOVING PICTURE ART.

It is a New Invention that you can carry in your pocket and show your friends instantly day or night, either once or a hundred times and without a machine, curtain or light. It is the most Attractive Novelty and most pleasing Dan Patch Souvenir ever Invented and shows Every Motion of Dan Patch 1:55 in pacing one of his Marvellous and Thrilling World Record Miles and it is Absolutely True To Life.

I want to assure you that it is the most successful Moving Picture ever taken of a world champion horse in his Wonderful Burst of Speed. If you love a great horse and want to be able to see him in Thrilling Motion Pictures at any time as long as you live **Be Sure And Accept My Remarkable Offer Before They Are Gone.**

I reserve the right to stop mailing these very expensive moving pictures without further notice, as this is a special free and limited offer.

A MILE OF THRILLING RACE PICTURES, 2400 MOVING RACE PICTURES OF DAN PATCH 1:55

and every one of the 2400 pictures shows the King of all Horse Creation as plainly as if you stood on the track and actually saw the mighty Dan Patch 1:55 in one of his Thrilling Speed Exhibitions for a full mile. Just think of it! 2400 Moving Pictures Taken Of Dan in 1 min. and 55 sec. means 21 pictures taken for every second all of the way around the entire mile track from the back seat of a high power automobile.

You Can See Dan Shake His Head To Let His Driver Know That He Is Ready And Then You Can Watch Every Motion Of His Legs As He Flies Through The Air With His Tremendous Stride Of 29 Feet. As A Study Of Horse Motion Alone This Is Better Than If You Saw The Actual Speed Mile Because You Can See Dan Patch Right Before You For Every Foot Of The Entire Mile And Not A Single Motion Of His Legs, Body Or Head Can Escape You.

You can see his Thrilling Finish as he strains every nerve and muscle to reach the wire in record breaking time, you can see his driver dismount and look at his watch while thousands of people crowd around, you can see his caretaker force his way through the crowds, uncheck Dan and then throw a beautiful wooler blanket over him to prevent catching cold and

MY NEW, POCKET MOVING PICTURES MAILED FREE TO ALL STOCKOWNERS

With Postage Prepaid---If You Are A Farmer, Stockman Or Poultry Raiser I Require A Correct Answer To These Three Questions. — **Be Sure and Answer These Questions.**

1st. In what paper did you see my Moving Picture Offer? 2nd. How many head Each of Horses, Cattle, Sheep, Hogs and Poultry do you own? 3rd. How many acres of land do you own or how many acres of land do you rent? I Personally Guarantee, Free To You One Of These Marvellous Moving Pictures, If You Write Me Today. You cannot buy them for \$5.00 each. — Signed, — **M. W. SAVAGE**

IF YOU ARE NOT A STOCKOWNER AND WANT THE PICTURES SEND ME TWENTY-FIVE CENTS FOR POSTAGE,

Packing, etc., In Silver or Stamps and I will mail you this wonderful Moving Picture of Dan Patch 1:55, the fastest harness horse the world has ever seen. -- If you send me Twenty-five Cents in Silver or Stamps--EVEN if you do not own any stock or land, I will mail it to you postage prepaid. It costs Thousands of Dollars to have these made.

Write At Once to -- M. W. SAVAGE, Minneapolis, Minn.

I OWN THE 5 FASTEST WORLD CHAMPION STALLIONS EVER OWNED ON ONE FARM IN THE HISTORY OF THE WORLD.

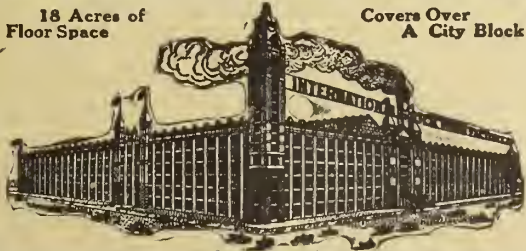
TWO WITH RECORDS BELOW TWO MINUTES.

On my "International Stock Food Farm" of 700 acres I own Dan Patch 1:55, Minor Heir 1:59½, Directum Jr. 2:10½, Arion 2:07¾, Roy Wilkes 2:06½ and also about 200 head of Young Stallions, Brood Mares and Colts and they eat "International Stock Food" every day. I will be pleased to have you visit my farm at any time and see my horses and their splendid condition. I feel sure that you never saw their equals at any Fair or Horse Show. **ACTUAL TEST IS WHAT PROVES EVERYTHING IN THIS WORLD.** If "International Stock Food" gives paying results for the highest priced horses in the world on my farm it certainly will pay you to use it for all of your stock. Remember that if it ever fails to give your Horses, Cattle, Sheep or Hogs, better assimilation and digestion, purer blood and perfect health with quick growth and fattening that it will not cost you a cent no matter whether you have used one hundred pounds or five hundred pounds and you are to be not only the user but also the sole judge of results. I will leave the entire matter for you to decide and accept your own statement. How the United States Government backs my claims that "International Stock Food" is strictly a medicinal tonic, blood purifier, etc. During the Spanish-American War, United States officials made a special examination and decided that "International Stock Food" was strictly medicinal and I paid \$40,000.00 patent medicine war tax. Can any honorable man deny this evidence? "International Stock Food" and label design is registered in Medicinal Department as a Trade Mark No. 52791 giving it commercial standing and rights as a distinctive

"TRADE NAME" FOR A MEDICINAL, TONIC PREPARATION
The United States Government issued me a Trade Mark No. 22836 on the world famous lines, 3 Feeds for One Cent -- as showing how cheaply International Stock Food can be mixed with the regular grain feed -- My label shows a list of the medicinal ingredients used and 250,000 Dealers have sold "International Stock Food" for over 20 years as a medical tonic preparation.
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18 Acres of Floor Space

Covers Over A City Block



INTERNATIONAL STOCK FOOD FACTORY LARGEST IN THE WORLD OVER 800 EMPLOYEES

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International Disinfectant
International Foot Remedy
International Colic Remedy
International Louse Killer
International Louse Paint
International Gall Heal
Silver Pine Healing Oil
International Heave Remedy
Dan Patch Stable Disinfectant
Dan Patch White Liniment
International Worm Powder
International Hoof Ointment
International Sheep Dip
International Cattle Dip
International Hog Dip
International Harness Soap
International Gopher Poison
International Worm Remedy
International Healing Powder
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ASK YOUR DEALER FOR ANY OF THESE PREPARATIONS
and insist on having what you ask for. Beware of many cheap and inferior substitutes and imitations. High Class Dealers Sell My Preparations on my Spot Cash Guarantee to refund your money if they ever fail.
PRESENT SALES LARGEST IN THE HISTORY OF THE BUSINESS
Signed, **M. W. SAVAGE, Owner of International Stock Food Co. — and also — International Stock Food Farm.**

DO YOU EXPECT TO SEE THE DAY WHEN THESE WONDERFUL DAN PATCH 1:55 RECORDS WILL BE EVEN EQUALLED?

DAN PATCH 1:55 HAS PACED

1 MILE IN	1:55
1 MILE IN	1:55½
2 MILES IN	1:56
14 MILES AVERAGING	1:56½
30 MILES AVERAGING	1:57½
45 MILES AVERAGING	1:58
73 MILES AVERAGING	1:59½
120 MILES AVERAGING	2:02½

DAN HAS BROKEN WORLD RECORDS 14 TIMES

In addition to all these records Dan Patch is proving to be one of the Greatest Sires of both pacers and trotters in all horse history -- Look up his large official list of Standard Performers.

Dan Patch 1:55 has gone more Extremely Fast Miles than the Combined Miles of All The Trotters and Pacers That Have Ever Lived. Be sure and remember these facts when you think of any Horse equalling Dan's Wonderful Performances.

For Seven Years Dan Patch has eaten "International Stock Food" every day mixed in his regular grain feed. It has given Dan Purer Blood, More Strength, More Endurance, More Speed and Perfect Health. It is constantly used and strongly endorsed by over Two Million Farmers and Stock Breeders, as the Greatest Animal Tonic, and has been for 20 years. No other preparation has such strong United States Government and practical Stock Breeders Endorsement, as has International Stock Food.

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FENN'S ADJUSTABLE Post Hole Auger

Extra Strong Simple Construction

No Rivets to Work Loose—No Castings to Break

DIGS DIFFERENT SIZE HOLES

Digs Faster than any Other

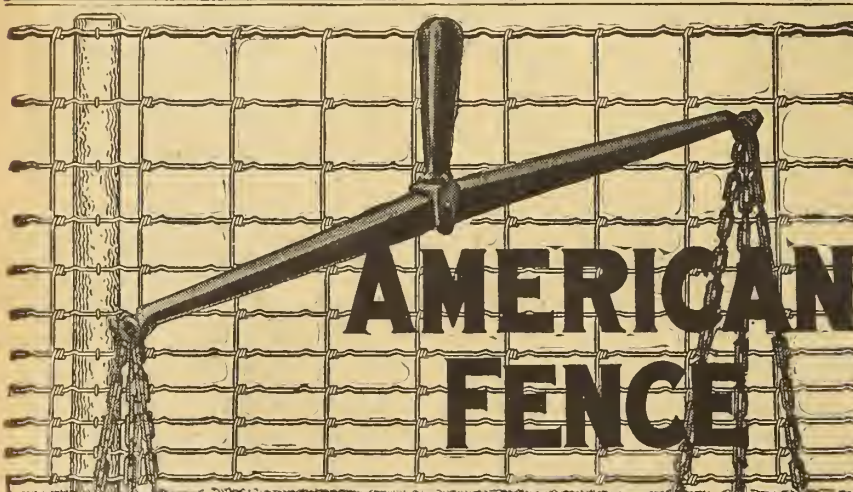
Does Better Work

Look at its strong construction. No rivets to work loose—no castings to break. Can be adjusted to meet any soil conditions—dry, wet or stony. Handles larger gravel and digs full size hole all way down to bottom. We will

REFUND YOUR MONEY

if it does not do better work in a greater variety of soils than any other auger in the world. The only auger that is a practical success in all soils. Compresses dry dirt so it can be lifted where others will not. Adjusts to dig different size holes and goes through the toughest sod easier than a spade. Investigate this auger before you buy. Write for prices and name of dealer.

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Made of Hard, Stiff Wire, of Honest Quality

A Heavy American Fence Costs You No More Per Rod Than Lighter Fences of Other Makes

A roll of heavy fence means big wire. Big wire means more strength and longer life. Insist upon the dealer weighing the roll of fence he sells you. This will tell the story quicker than any other way, for you cannot always tell the size of wire by eye. American Fence will stand this test against any fence made, and will prove its greater weight. Why, then, pay the same money for a lighter fence?

American Fence is made of hard, stiff steel. It is made of a quality of wire drawn expressly for woven-wire-fence purposes by the largest manufacturers of wire in the world. Galvanized by latest improved processes, the best that the skill and experience of years has taught. Built on the same elastic hinged-joint (patented) principle, which effectually protects the stay or upright wires from breaking under hard usage.

Test, judge and compare American Fence under any and all conditions and you will find that the steel, the structure and the galvanizing are equal in durability, strength and efficiency to the hardest uses.

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NOTE.—Dealers everywhere. See the one in your town and have him show you the different designs and give prices. Also get from him booklet entitled, "HOW TO BUILD A CHEAP CONCRETE FENCE POST," furnished free for the asking.

The Most Sacred Spot

in any community is the last resting place of loved ones, and if only as a mark of respect it should be fittingly kept and made proof against desecration.

Cyclone Cemetery Fence and Gates

are designed to harmonize with and beautify the old burying grounds. They last for years, are stock proof and much cheaper than wooden fences. Write for our fine, free illustrated catalogue. Address

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OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

BURIED TREASURE.

An Iowa Subscriber.—(1) Two years ago A bought a farm of 160 acres and still owns it. The farm formerly belonged to B, but had changed hands several times since B owned it, and before A bought it. B now claims that in one corner of this farm under a certain tree there is a box of jewelry and probably money, which was buried there years ago by one of B's relatives. If this be true, who is entitled to the box and its contents? (2) I rented a meadow pasture last fall which my horses failed to eat off. There was no agreement as to the time of such renting. How long can I continue to pasture it?

Answer.—(1) The box and its contents belong to the person who buried them, and if he be not living to whomsoever are his heirs at law. The fact that they are buried on land now belonging to A, does not give him a lawful claim to them. (2) Either party can terminate such a contract at any time.

FAMILY RELATIONS.

A Subscriber, Cottonwood, S. D.—A and B are husband and wife. C is a sister to B. After C had six children she was divorced from her husband and given the custody of two of the children, a boy now sixteen years old and a girl now eight years old. In 1903 when C separated from her husband she had these two children, but soon found that she could not conveniently keep them, so she left the boy at her mother's place in Iowa and left the girl with A and B, with the understanding that she was to pay for her keeping as soon as she would be able to do so, or else give her consent in writing for A and B to adopt the child. In 1906 A and B moved to South Dakota, taking the girl with them. In 1908 C married again and now she and her husband declare they will have the child. (1) Can they lawfully take the child away from A and B without paying for her keeping? (2) What price or compensation can A and B lawfully claim for the keeping of the child, the contract not being in writing? (3) With the exception of two years, the boy has been supporting himself by his own wages. Can C or her husband collect or hold the unpaid wages coming to the boy? (4) Can they force him into their household against his will?

Answer.—(1) The mother of the child can take the child away from A and B without paying for its care. They are liable to A and B for the keeping of the child, but A and B have no lien on the child to secure payment. (2) Whatever they can prove it is worth. (3) We think not. (4) They cannot. The boy was practically emancipated by the conduct of his mother, and is entitled to his own wages.

ESTABLISHING A ROAD.

A Subscriber, Crete, Neb.—A has land so situated that he must pass over B's land to get to the public highway. A has the use of a road over B's land now and B also uses it. The road is on level land and open with no gates or other hindrances. A is not satisfied with the present arrangement and wants the road in his own right, but would be willing for B to use it also. B is willing to sell A the privilege of using the road, but does not want it to pass out of his ownership. (1) Can A force B to sell him the road outright or only give him an easement in the ground without actual ownership? (2) What is the legal width of such roads in Nebraska?

Answer.—(1) A cannot compel B to sell the land necessary for a road to him outright, but can establish a right of way by condemnation proceedings. (2) Not less than forty feet, nor more than sixty-six feet. The easiest and best way is for A to buy an easement in the ground—the right of way over it, and have it deeded to him by B, without expensive legal proceedings.

OFFICER'S NEGLIGENCE OF DUTY.

A Subscriber, Hampshire, Ill.—There are a large number of female dogs in this neighborhood, and no one pays any tax on them. What steps can be taken to compel the assessor to assess them for taxation according to law?

Answer.—The matter should be laid before the state's attorney, who could commence a prosecution of the assessor for his omission of an official duty.

DRAINAGE OF SURFACE WATER.

An Iowa Subscriber.—Please answer the following questions as to drainage in Iowa: (1) Have I a right to let water from my tile drains empty into

To Fence Buyers

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before you buy a rod of fence. Take my word for it, it will pay you to give me the chance. It's a book about

EMPIRE

All-No.-9 Big Wire Fence

I've had my say about fence in this book and I want you to read it. Most profitable fence in the world to buy, as I'll show you.

THERE'S A NEW THING ABOUT IT

It's now sold delivered to fence-buyers everywhere—not just in certain sections, but every where in the U. S. Plainly priced in the book (factory prices) and the factory pays the freight to your railroad station.

Send me a card or letter for book right away. I'm going to send out 45,000 of these books to farmers this fall, but I'll get them out promptly. Address FARMER JONES, Fence Man for

BOND STEEL POST CO.
37 E. Maumee St. Adrian, Mich.

Heider Eveners

Are the best that skill and brains can produce. Made for 2, 3, 4, 5 and 6 horses. Heider 3-horse Wagon Eveners for wagon, manure spreader, grain drill or any other implement with pole. HEIDER 4-horse Plow Eveners work 4 horses abreast on gang sulky or disc plow, 1 horse in furrow, 3 on land. No side draft, all horses pull equal. We make Clevises to attach our Eveners to all plows. **ASK YOUR DEALER FOR HEIDER EVENERS!** If he can't supply you write us at once, we will tell you where and how to get them. Let us prove to you the many points of merit, why you should accept no other kind and insist on getting HEIDER EVENERS if you want the best on the market. We also make wagon doubletrees, singletrees, neckyokes.

HEIDER MFG. CO.
Dept. 16
Carroll, Iowa.

Here's a tool that cuts quickly through the hardest ground, and you can set it to bore nine sizes of holes.

Standard Post-Hole AUGER

—does better and faster work than any similar device, and you cannot afford to be without one if you set posts—plant trees—dig wells—build fences or hore in the earth for any purpose. Get Catalog F.

STANDARD EARTH AUGER CO.
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4.50 Buys Best All-Steel Farm Gate

Cheap as wood. Lasts a lifetime. 12 ft. long; 54 in. high. Resists all kinds of stock. Also Farm Fence, Ornamental Wire and Wrought Iron Fence Catalogue free. Write for Special Offer.

The Ward Fence Co., Box 345, Decatur, Ind.

BROWN FENCE

For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle, 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. We pay freight

The Brown Fence & Wire Co.
DEPT. 34 Cleveland, O.

IWAN Post Hole and Well Auger

pays for itself in labor saved in two days! Does a whole day's work in two hours! Digs 3-ft. postholes in wet or dry hard-pans, solid clay, rambo or gravel in three minutes with

little effort! Your money back if not satisfactory. Works on only successful scientific principle. With cheap pipe extension you can dig 40 to 60 feet in a day. Ask your dealer or write us, mentioning his name, and we will send FREE, time, labor and money-saving book, "Easy Digging," telling latest digging methods. Address

(12) Iwan Bros., Dept. 113 South Bend, Ind.

14 Cents a Rod

For 22-in. Hog Fence; 15 3/4-c for 26-in.; 13 3/4-c for 31-in.; 22c for 34-in.; 25c for a 47-in. Farm Fence. 60-inch Poultry Fence 33c. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.

KITSELMAN BROS.
Box 290 MUNCIE, IND.

When writing mention this paper.

a ditch along the public road where the water will run across the road through a culvert and then in a natural draw through my neighbor's land? (2) Have I a right to let water from my tile drains empty on the surface in a natural draw at the line fence between my land and my neighbor's? (3) There is a natural draw from my land extending across my neighbor's land where I wish to discharge surface water from my tile drains, but my neighbor refuses to tile or allow me to connect my tile with his. How can I lawfully obtain an outlet?

Answer.—(1) The law provides that "owners of land may drain the same in the general course of natural drainage, by constructing open or covered drains, discharging the same into any natural water course, or into any natural depression whereby the water will be carried into some natural water course, and when such drainage is wholly upon the owner's land, he shall not be liable in damages therefor to any person or persons, or corporation." If therefore the draw mentioned leads to a natural water course, you may empty your drains into such draw. The foregoing answer is also applicable to the second and third questions.

U. S. HOMESTEAD LAW.

A Subscriber, Arcadia, Iowa.—(1) If a person takes a homestead claim in Dakota and proves up on it before the expiration of five years, how much must he pay per acre for the land? (2) If a person files on a homestead in Dakota and never goes to live on it, or claim it, does he lose his homestead right or can he file on another claim?

Answer.—(1) One dollar and twenty-five cents per acre, ordinarily; but if the land lies in alternate reserved sections along the line of a railroad within the limits of any congressional grant, \$2.50 per acre. (2) If the homesteader has not received anything for his relinquishment, or other benefit, he has not lost his homestead right, and may take up another homestead.

SALE OF FARM—FIXTURES.

A Subscriber, Orient, Iowa.—A bought a farm from B. There was nothing reserved in the contract of sale. The farm was sold together with all improvements. After the deed was made and part of the purchase price was paid, B held a public sale and sold all loose lumber, posts, wire, troughs, telephone, etc. Had he a lawful right to do this?

Answer.—The sale of a farm with all improvements, means the land with what buildings, fences and other things in the nature of fixtures, are upon it. Fixtures are such things as are permanently affixed to the land actually or constructively, and do not include loose lumber, posts not intended for immediate use, nor troughs unattached; such things do not pass by the sale to a purchaser, unless there is an express agreement to that effect, consequently B had the right to sell them. As to the telephone, there is some doubt, as we do not know exactly the circumstances about it, nor the connection or relation of B to the telephone company.

DOG AND PUPS.

A Subscriber, Selma, Iowa.—Several months ago A sold a female dog to B for fifty cents. She stayed with B two days and then came home. A notified B and he took her away and gave her to C, his neighbor. The dog stayed there two days and again came home to A's place and has been fed and cared for there ever since and listed and assessed for taxation by A. She has had a litter of pups and now C demands the dog and pups on the ground that A should have advertised her as a stray animal and failed to do so. Both B and C have known all the time where the dog was. (1) Is A liable for damages? Has B or C any claim on the dog after waiting so long a time?

Answer.—(1) A is not liable for damages although he had no business or right to feed and keep the dog. The fact that the dog returned to his place twice after being sold does not vest him with the ownership of it. (2) C has a right to claim the dog and pups. They are his property.

DAMAGE BY DOGS.

A Subscriber, McGregor, Iowa.—A and B are neighbors. B's dog became rabid and came upon A's premises and bit six head of cattle and caused them to become rabid so that they had to be killed. (1) Can A recover damages from B? (2) Is there a county or state fund from which A can recover the amount of his loss?

Answer.—(1) A can recover damages from B for the loss of his cattle. (2) There is a fund called the "domestic animal fund raised by taxation on dogs. Any person damaged by the killing or injury of any domestic animal or fowl by dog, dogs or wolves, may present to the board of supervisors a detailed statement of such killing or injury, stating the amount of damages claimed, and verified by affi-

davits of two or more disinterested persons not related to the claimant, such claim to be filed with the county auditor not later than ten days from the time such killing or injury occurred, or was known to the owner or his agent. Upon proof before the supervisors, they allow the claim, or any portion they may deem just, and authorize the auditor to issue warrants for not exceeding 75 per cent of the amount of damage found, the same to be paid out of the domestic animal fund, by the county treasurer.

PAYING ANOTHER'S DEBT.

A Subscriber, Udall, Kan.—Two years ago I quit work as a farm hand in Sumner county, Kansas, on account of not being paid regularly for my services. After I quit my employer gave me his note for the amount which was due me, payable in four months. When the time expired he was unable to pay and I secured a new note signed by him and his father. In order to get the father's name to the note it was made for \$150, as he refused to sign for more. This was not all that was due me. There was a balance of less than \$50 and the father agreed to square this with me if the son failed to pay. Now they both refuse to do anything about this balance. Can I compel them to pay it?

Answer.—You have a good cause of action against your employer for said balance, and can get a judgment against him for the amount; whether you can then collect the judgment is another matter. You have no legal claim for the balance against the father, because he did not agree in writing to pay it. When a person agrees to pay another's debt, it must be in writing, or it will not bind him.

DRAINAGE UNDER RAILROAD.

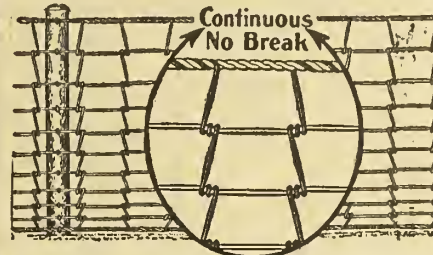
A Subscriber, Valeria, Iowa.—A owns eighty acres of land. A railroad enters it near the southeast corner, and goes out at the northwest corner, thus going diagonally across the land. A ditch north of the tract strikes the railroad grade 300 feet above a culvert under the grade, and the water carries sand that fills up the railroad ditch and causes water and sand to overflow A's land, doing it serious injury. Can A compel the railroad company to put a culvert at the mouth of the ditch which will carry the water and sand below the railroad grade, whence they would flow into the river, doing no harm?

Answer.—We understand from the foregoing statement, that the mouth of ditch referred to is not on A's land, but some distance away, on land not owned by A. In such case A cannot compel the railroad company to put a culvert under its grade at the mouth of the ditch.

A paralyzing fact for soil robbers from the Missouri Dairyman: "Five hundred dollars' worth of grain removes more than \$300 worth of fertility from the soil. Five hundred dollars' worth of butter less than three dollars' worth. The dairy is the future protector of the soil's fertility."

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"The Fence That's Made in Elgin"



On 30 Days' Free Trial

We Pay the Freight and We Guarantee Safe Delivery to You

An offer for the farmer who wants the best fence produced at the lowest price a lifetime fence can be made for. Advance Fence isn't just a boundary line—it stands for system and advance value.

In property. Advance Woven-wire Fence is the best-looking—strongest-constructed—longest-lasting fence on the market. To prove it to you, we make our great offer: If the fence isn't satisfactory, send it back at our expense. Advance Fence is made of solid wire—not wire cut and spliced again. A cut wire weakens. Our stay wire is continuous, woven in with the main top and bottom wire, running the entire width of the fence from one stay to the next. Made of the best basic, open-hearth steel, galvanized with a heavy coat of 99 per cent pure spelter—that means rust-proof. Advance Fence always stays taut—straight and handsome. Prove it for yourself. Write us for all particulars. Remember, we pay freight and guarantee safe delivery.

Don't Pay Two Prices—Write Us Today.

ADVANCE FENCE COMPANY,

Box 107 Elgin, Ill.



OPENS EITHER WAY—ALWAYS AWAY FROM TEAM—ANY CHILD CAN OPERATE—THE NEVER SAG GATE

LIGHT--STRONG--DURABLE--CHEAP

The "Never Sag" is made entirely of steel tubing and wire. Wire is attached with eye bolts. Guaranteed not to sag or allow wires to become loose. There is no wood to warp, split or rot. Is very flexible, can be twisted to ground and will return to place without being "sprung". When closed is as strong as the fence. No animal can open it. Great on side hill. Can be adjusted to clear snow or allow small stock to pass under. Will last a lifetime.

You cannot equal our "Interlock" fencing for strength or durability. It is not welded or wrapped, but interwoven. (See cut).

Write for our circulars, also on Barn and Hay Tools, Litter Carriers, Gable End Door Fixtures, Trackless Door Hangers, etc. Sent free on request.

HACKNEY MANUFACTURING COMPANY, 406 Germania Life Bldg., ST. PAUL, MINN.



RAISED TO PASS HOGS AND HOLD BACK OTHER STOCK

See The Points

They point to the solution of all your gate troubles.

Cyclone Farm Gates

are constructed of special high carbon tubular steel because it is the strongest material that can be found. Cyclone Gates are shipped with malleable hinges, latches and everything necessary, ready to hang to posts. All Cyclone Gates are guaranteed sag-proof. Cyclone frames are not drilled full of holes for fastening the wire fabric. The parts of the frame are connected by our special inside fittings that add greatly to their strength. Let us show you how it will pay you to have these gates on your farm—how it will save you time, trouble and money. We will send catalog free, also our finely illustrated book of Lawn and Cemetery Fencing. The largest and most complete line manufactured.

CYCLONE FENCE COMPANY,

Dept. 121

WAUKEGAN, ILLINOIS.



Anchor Fence & Mfg. Co., Cleveland, Ohio.

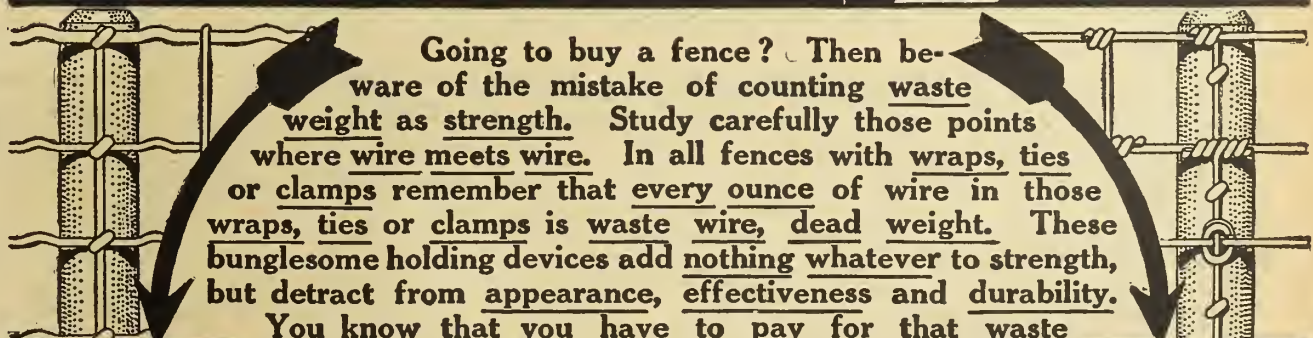


When writing mention this paper.

WEIGHT DIFFERENCE?

"PERFECT" FENCE

NOT A "PERFECT"



Going to buy a fence? Then beware of the mistake of counting waste weight as strength. Study carefully those points where wire meets wire. In all fences with wraps, ties or clamps remember that every ounce of wire in those wraps, ties or clamps is waste wire, dead weight. These bunglelike holding devices add nothing whatever to strength, but detract from appearance, effectiveness and durability.

You know that you have to pay for that waste weight—also you pay freight on waste weight.

Now look at the

"PITTSBURGH PERFECT" FENCE

Not an Ounce of Waste Weight!

Wires electrically welded at every contact point—the weld is even stronger than the wire. The selling price of any other fence made of the same gauge (size) wire as the "Pittsburgh Perfect" Fence is greater than the selling price of the "Pittsburgh Perfect". Judge the strength of a fence by the size of the wires. Get a fence with stay wires as large as line wires—wearer stay wires make a weaker fence. Every wire in the "Pittsburgh Perfect" is of open hearth steel, galvanized by our improved process. Insist on seeing this fence. It is made in 73 different styles for every fence purpose.

Your dealer sells it. Write for free catalog.

PITTSBURGH STEEL CO., Pittsburgh, Pa.

THE WELD THAT HELD

Dead Weight

Dead Weight

THE ONLY QUALITY SEPARATOR BUILT!

We can prove to you that the IOWA DAIRY SEPARATOR is positively the best separator made — that it stands in a class by itself — that there is as much difference between it and other separators as there is between silk goods and cotton goods, or between day and night:

THE IOWA IS ABSOLUTELY THE CLOSEST SKIMMER

BECAUSE the double core gives a larger skimming surface in our small bowl than in the big bowl on any other machine. The discs on the inner core are wide apart, giving a free and open passage for the thick cream. In the outer part of the bowl, where the last particles of butter fat are skimmed, the discs are close together, dividing the milk in very thin layers, thus giving the largest possible skimming surface. WE SELL YOU THE IOWA SEPARATOR ON A POSITIVE GUARANTEE THAT IT IS THE CLOSEST SKIMMER MONEY CAN BUY.

THE IOWA SEPARATOR IS THE LIGHTEST RUNNING MACHINE

BECAUSE it has the lightest bowl of equal skimming capacity of any machine, and you know it takes less power to keep 3 lbs. in motion than 6 lbs. Our gearing is so arranged that it does away with the old worm principle used on other separators. Note the slant given the wheel which drives the bowl. This eliminates the friction of the old style worm wheel. Each bearing has a reservoir of oil, in which no dust or dirt can collect. This is different from any oiling system used in any other separator. THE IOWA MACHINE HAS PROVEN IN ALL EXPERIMENT STATION TESTS TO BE THE EASIEST RUNNING MACHINE MADE.

THE IOWA IS EASIEST AND QUICKEST CLEANED

BECAUSE it is the only machine in which the skimming device can be washed by centrifugal force. The washing is done by simply running water through the bowl. It has a self-draining bowl and all milk drains out of it at the end of the run. The skimming device consists of only two pieces. The heaviest piece a woman has to lift in washing this machine weighs only 3 lbs., while in other machines she has to lift from 10 to 15 lbs. THE IOWA SEPARATOR IS CLEANED IN JUST ONE-HALF THE TIME IT TAKES TO CLEAN ANY OTHER MACHINE.

The Iowa is the most durable.

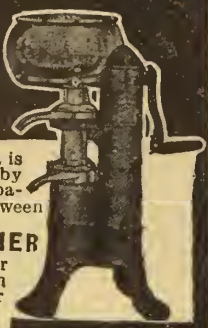
BECAUSE the frame is heavier than that of any other machine. There are no overhanging bearings, every wheel is supported by a bearing on each side. The gears are tightly enclosed so that dust or other matter cannot get to them to clog them and cause them to wear. The IOWA bowl being lighter, requires less power to maintain its proper speed and hence there is less wear on the gears. NO OTHER MACHINE CAN LAST SO LONG BECAUSE NO OTHER MACHINE CONTAINS THE ABOVE FEATURES.

We have the largest separator factory in the world and it is a fact that you cannot buy a separator anywhere at any price that will equal the IOWA in all the above points.

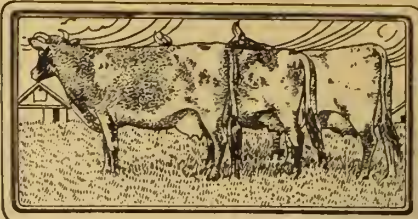
If you can find any other separator that will skim to its rated capacity under all conditions as closely as the IOWA, we will make you a present of one of our machines. There are no strings to this offer and it is not limited in any way.

Write us before you buy and we will give you some surprising inside information on separators.

Iowa Dairy Separator Co. 113 Bridge St. Waterloo, Iowa.



DAIRY



ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

VALUE OF SILAGE.

To the Editor of The Homestead:

There is probably no investment on a dairy farm that pays so high a dividend as does the silo. Equally, there is no feed for the dairy cow so economical as silage. No dairyman who wishes to stand high in his calling can afford to get along without a silo. It has come to be a generally accepted fact that summer dairying does not pay. It is questionable whether winter dairying pays without silage. Certainly it does not yield the returns that it should.

From the standpoint of economy there is no cheaper way of handling the corn crop than by means of the silo. In the first place, the loss by waste is less than 10 per cent of the total value of the crop, while by the usual system the loss often runs as high as 50 per cent. Then the actual cost of putting it into the silo is far exceeded by the cost of cutting, husking and storing in the usual way. The matter of storage space is an item that deserves recognition. Ten acres of corn in the form of silage will occupy less than one-tenth the space it would need if it were in the form of dry fodder.

So far as succulence is concerned, roots form a fair substitute for silage, but it is poor economy to make the substitution. Roots to yield abundantly require special soil and climatic conditions. The yield under favorable conditions for the root crop, may be about the same for each. According to determinations made at one of our experiment stations the feeding value of sugar beets and silage is about equal ton for ton.

There is no harm in the rational use of silage. The arguments that it causes cows to lose their teeth or that it causes a rapid wearing out of the body are fancies that have no foundation in fact. Too much silage may cause digestive disturbances just as too much of any other one feed might. The proper time to cut corn for the silo is when the kernel has become well glazed. Cut earlier than this, the silage is likely to be sour and its water content too high. If cut much later than the glazing period, there is apt to be not enough moisture in the stalk to produce proper fermentation and this will result in

moldy and decomposed silage. Cut at the proper time and fed in reasonable quantities, there is no more wholesome and nutritious food for dairy cattle than good corn silage. Twenty to thirty pounds daily per thousand pounds live weight is a reasonable quantity to feed and this should be given in conjunction with five to eight pounds of hay or other dry roughage and grain according to the amount of butter fat the cow is yielding. Clover and alfalfa may be put into a silo and as a rule will form excellent silage. It is not advisable, however, to handle either of these crops in the form of silage unless weather conditions are so bad as to prevent the possibility of getting them up in the form of hay. Subscriber.

STEALING THE ROBE OF THE DAIRY.

To the Editor of The Homestead:


The other day I stepped into a grocery in a city of some 40,000 people on an errand. A lady present was buying some butter. The proprietor told her the price of dairy butter, thirty-eight cents. But then he went right on to ask if she had ever used any oleomargarine. She had not, and he told her he had some extra good oleomargarine at twenty-six, adding, "You would be surprised how many people use it. There are twenty-five families right around here that use it from my store. You can't tell it from butter." The result was that she ordered a pound of the stuff on the strength of his pettifoggery. I suddenly made up my mind that I would do my errand somewhere else than with a man who is working like that against the farmer.

But right there is one of the most serious menaces the farmers of the present day have to face. Everywhere false butter is stealing the robe of the dairy to fill the pockets of men who have nothing whatever in common with the farmer. Granges and other farmers' organizations are becoming aroused all over the country and all are demanding that the laws governing the manufacture and sale of oleomargarine shall be strengthened, not weakened, as proposed legislation is intended to do.

No more troublesome question confronts the dairy farmer of our day than this one of bogus butter. It must be met very bravely and very earnestly or we may as well sell our cows and go to doing something else. How shall we go about it? Oleomargarine is a fraud on the face of it. It purports to be what it is not. Were it not that it looks like butter, its sales would be reduced to merely nothing. What does this indicate? Just this, to my mind. We need a law which will prevent any man or set of men from coloring any product, of whatever name and nature, in imitation of dairy butter.

The United States is very jealous of its rights in the matter of making money, and rightly so. It punishes those who put anything which looks in any way like money, coin or bills in circulation. It makes strict laws preventing the manufacture and sale of foods that are impure of other kinds than butter; but it permits men to make this, which is without doubt one of the most flagrant attempts at fraud without limit, providing they pay a little money into the public treasury for the privilege of so doing.

It is a shame and a disgrace to the legislators of our country thus to treat the farmers of our country. No man who is in favor of stealing the robe of the dairy for the sake of serving oleomargarine ought to be elected to congress. Every candidate or proposed candidate ought to be made to state his position on this question fairly and unequivocally before he re-



Blacklegoids


Simplest, Safest, Surest Vaccination
for the prevention of

BLACKLEG IN CATTLE

NO DOSE TO MEASURE. NO LIQUID TO SPILL. NO STRING TO ROT.

Just a little pill to be placed under the skin of the animal by a single thrust of the instrument. You cannot afford to let your cattle die of blackleg when a few dollars spent on Blacklegoids will save them. Write for circular.

PARKE, DAVIS & COMPANY
HOME OFFICES AND LABORATORIES, DETROIT, MICH.
NOTICE.—For a limited time we will give to any stockman an injector free with his first purchase of 100 vaccinations.



Easy To Clean, Sanitary Insures Quality Cream Largest Profits



To meet the severe rules of Dairy Commissioners and the demands of high-class trade, you must have a cream separator that can be thoroughly cleaned after every skimming. Some machines are practically impossible to clean. These will soon be out of business. Others are so complicated with slots, corners and crevices in the bowl device that it means an everlasting task, twice a day, to keep them free from taint. Don't take any chance on this point of cleanliness. Cleanliness means first grade products, highest prices, big profits; lack of it—second grade products, low prices, loss. Be sure of cleanliness, an absolutely sanitary, sweet machine at every skimming, with least work and time needed for cleaning, by choosing from—



Frictionless Empire

Empire Disc

The Empire Line of Cream Separators

Different Styles—All Sizes In Each Style—Widest Choice

Here we show an inside view of the famous Frictionless Empire Bowl, the simplest, most sanitary skimming device ever put in a separator. The six light, smooth cones are as easily and thoroughly cleaned as so many saucers. There are no cracks, crevices or slots, as in other machines, where specks of impurities or cream can lodge in spite of the washing and spoil the next skimming.

All the surface of every part in an Empire bowl is smooth and get-at-able. Choose the Frictionless Empire, with cone bowl, or the Center-Feed Empire Disc—either one will insure top price for your cream or butter and will save you hours of cleaning every month. Besides, Empires are the only easy-to-turn separators. Ball bearings top and bottom, lightest bowl, truest adjustment, finest materials, best workmanship—these are reasons why Empires run perfectly for many years, paying for themselves over and over again.

Dairymen's Guide To Dollars, Free

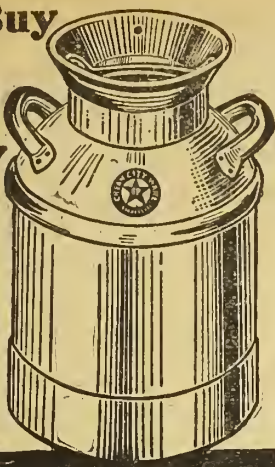
That's what the 1910 Empire Book is. The finest, most instructive separator catalog printed. Tells the facts about different styles. We have no one hobby to push. A Style, Size and Price to suit everyone. Send postal or letter for book by next mail.

EMPIRE CREAM SEPARATOR CO. Dept. G 1225 Wabash Ave., Chicago, Ill. Factory—Bloomfield, New Jersey

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Book-
Guide to
Dairy
Profits

Don't Buy Milk Cans Every Year

Let Us Show You How to Cut Down Your Milk Can Expense



Thousands of milk shippers have found out that there's "something better in milk cans." They pay no more, but they get double life and double service by using

CREAM CITY Sanitary Milk Cans.

Why not make your milk can money go farther? Every Cream City can is guaranteed. We build them so we can guarantee them—heavier steel bottoms and bodies, better reinforcing, double tinning, soldered to make cans perfectly smooth and sanitary. We will prove these things to you.

Write To-day for Free Book

describing the entire line of Cream City milk cans. We make all styles and sizes of cans for all purposes. Longer service in every one of them when made in Cream City quality. Send for the book and see why. Ask about the Jersey Dairymaid Pail and famous Cream City Stock and Water Pails. Address

GEUDER, PAESCHKE & FREY CO.
55 15th St., Milwaukee, Wis.

ceives the support of the voters of any district. Shall not this be done? The time is ripe, now. Now the iron is hot. Strike now. E. L. Vincent.

WATER: METHODS OF PURIFICATION.

To the Editor of The Homestead:

The self-purification of streams reaches a remarkable degree in some instances. It is even believed by some that lakes and streams will completely purify themselves if given sufficient time. The process is composite and includes the following forms:

First is sedimentation in which large amounts of organic and inorganic matter settled to the bottom. Second is oxidation in which, in consequence of the movement of the water over rapids, falls, etc., the water becomes aerated and facilitates the oxidation of organic matter. Sunlight accelerates oxidation and also kills some of the bacteria. Third is precipitation, in which during the course of the stream insoluble, inorganic compounds may be formed and precipitated. Next is the dilution by the entrance of purer water from tributaries, springs and ground waters, of the water contained in the stream, thus reducing the degree of pollution. Water plants of different forms dissolve and at times undissolve organic substances. Sixth, one very important manner of purification is that caused by organisms. These organisms or bacteria, as they are sometimes called, convert the organic substances into single organic compounds such as carbon dioxide, ammonia and water.

The artificial purification of water possible is not quite of as much importance in the case of animals as in that of man. Nevertheless, for the highest degree of health, good and pure water is essential. The objects aimed at in the purification of water are the freeing it from inorganic matter.

Filtration is one of the most satisfactory methods of purifying water. Proper filtration not only removes suspended particles, but also will reduce the amount of organic matter and the number of bacteria. Proper filtration will remove as high as 98 per cent of the contained germ life.

Sand filtration is commonly used for the filtration of water on a large scale. It may be continuous or intermittent, depending upon whether it is kept constantly in use or not. Continuous filtration is used where the degree of pollution is not high, and the interrupted where the degree of impurity is high, a certain amount of air being necessary to oxidize the organic matter. Highly polluted water is especially deficient in oxygen and therefore the filter must be ventilated from time to time in order that the nitrifying bacteria may have the opportunity to recuperate. The last portion of water as it sinks down through the filter, draws the air after it, thereby assisting in its aeration.

It has been found that the qualitative efficiency of a filter running continuously is inadvertently in proportion to its qualitative efficiency. In other words, the more rapidly the water passes through the filter, the more impurities will be found in the filtered water. The greater part of the purification of water in a sand filter goes on at or near the surface of the filter. After a few days' use a slimy pellicle forms on the surface. This composes the so-called bacterial jelly. It is the nitrifying bacteria contained in this jelly that accomplishes the purification. The efficiency of a filter is very low until this pellicle has had time to form and by removing it the efficiency is destroyed.

In a physical examination of water is determined color, clearness, luster, taste and smell. The color and clearness are best obtained by putting a sample in a tall glass vessel placed on a piece of white paper and looking down through it. Any marked color is readily detected by this means. Water should have a bluish tinge, but yellowish is probably the most common, due to the presence of fine sand or clay. Brown waters are suspicious of sewage or other organic contamination. Any sediment will usually settle to the bottom after the water has stood quiet for twelve to twenty-four hours. The sediment is usually found to be vegetable debris in which may



The Simplest, Strongest And Most Convincing Of Cream Separator Arguments

We cannot believe that there is a sensible man living who would put his own money into the purchase of any other than a DE LAVAL cream separator, for his own use, if he would but first avail of the opportunity open to everyone to SEE and TRY an improved DE LAVAL machine before buying any other.

It is hardly possible to say more than this. It is hardly possible to put the simple truth in plainer words. It would hardly seem possible to say it more convincingly.

The TRIAL of a DE LAVAL machine is free to every responsible man thinking of buying a cream separator. We have agents in every locality for this purpose. If you don't know the agent in your neighborhood send to us for his name and address and it will be a pleasure to give your inquiry prompt and courteous attention.

THE DE LAVAL SEPARATOR CO.

165-167 BROADWAY
NEW YORK

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LET THE COWS PAY FOR IT

from the surplus earnings over and above what you are now getting for your butter and cream.

Pay \$5 at time of purchase and \$5 a month until paid for in full. That is practically making the cows pay for a

Monarch Cream Separator

and you save \$20 to \$25 in agents' profits and freight by ordering direct from factory.

MONARCH CREAM SEPARATORS are priced at from \$29.75 up, according to capacity. They are sold with unlimited guarantee that absolutely protects you for 20 yrs. to come. Try the MONARCH 30 Days Free and if you don't find it the easiest running, closest skimming, best all around separator you ever saw, send it back at our expense.

Write today for our plan of how your cows can pay for separator. Lisle Mfg. Co., 845 Main St., Clarinda, Ia.

Six Thousand Indiana Silos

Finest Farms in America

Is absolute proof that "Indiana Silos are the best in the World."

Ask Any Man Who Uses One! An Indiana Silo saves half your feed. It pays for itself in one season. High priced feed makes it imperative that you investigate and decide upon your silo now.

The best materials make Indiana Silos by far the best. We own saw mills and timber lands, and thereby get stock selected, seasoned and prepared exclusively for our silos.

Write for the reasons why "Early Buyers are Lucky Buyers." Factories at Anderson, Ind., Des Moines, Iowa, and Kansas City, Mo.

Write for THE SILO ADVOCATE FREE Today AND OUR SILO BOOK FREE

These contain much valuable information you should have. Address all communications to the General Offices of the INDIANA SILO CO., 321 Union Building, Anderson, Indiana

We are the largest Silo Manufacturers in the World

Pint of Milk, merged into one pound of Butter. 4c Per lb.

NEW PATENT MACHINE

Family size machine merges one pint of milk into one pound of butter in two minutes. No chemicals used. Pure food product. Gets just as hard—looks the same—is used the same—and is sweeter and healthier than Creamery Butter. \$10.00 if the machine falls to do what we claim. Write for 25 sworn testimonials, and illustrated circulars. Retail price, \$5.00. Big profit to agents. FAMILY BUTTER MERGER CO., Dept. 21, 38 Henry St., Bklyn., N.Y.

TO THE WOMAN-

who will have to keep the Cream Separator you buy CLEAN.

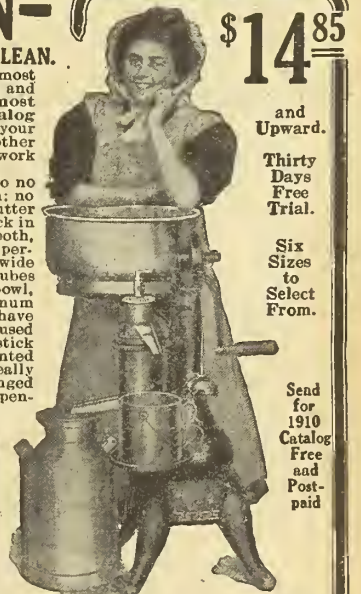
ALL CREAM SEPARATORS are money makers and most of them are labor and time savers. Some save a little work and others save a good deal more, but the New Butterfly saves the most work, and for that reason you ought to get our free 1910 catalog before you buy a cream separator and read what hundreds of your sister women who have used both the New Butterfly and the other kind of separator have to say about the difference in time, work and trouble it takes to keep them clean.

IN THE NEW BUTTERFLY SEPARATOR there are no pipe shaped tubes to wash out; no crevices and corners to clean; no sharp perforations like a nutmeg grater to collect slime and butter fat; no loose parts to slide onto a wire frame and to be put back in place twice a day. The supply can is only waist high, has smooth, round, easily cleaned corners, removable faucet, and drains perfectly to the last drop of milk. The milk and cream spouts are wide open and easily cleaned, instead of the closed pipe shaped tubes used on other separators. There is only one piece inside the bowl, and that is our patented Skimming Device, made of pure aluminum—the non-rusting, easily cleaned, sanitary metal. You don't have to scrub it as you do the tin or tinned steel skimming devices used in other separators, because milk slime and butter fat won't stick to aluminum. This New Butterfly skimming device is patented by us in every dairy country of the world and is the only really great cream separator improvement of this decade. The hinged aluminum blades swing wide apart like the leaves of a book, opening up every part for quick and easy cleaning. There are no arrows or notches to watch for in putting the bowl together. You can assemble it with your eyes shut or in the dark. The New Butterfly Separator also has the skim milk outlet at the bottom of the bowl, making it absolutely self draining.

FOR ONLY \$14.85 we offer you our New Butterfly, Jr., No. 1—the biggest cream separator value ever offered. This machine will skim a quart of milk a minute just as perfectly as any \$100.00 cream separator on the market and will last as long. It turns easily, skims perfectly and cleans easily. Has a 7 1/2-inch crank, inclosed dustproof and accident proof gears and a 2 1/2-gallon milk supply tank.

WE MAKE FIVE LARGER SIZES of New Butterfly Separators. One of them will meet your requirements exactly. Write today and get our free catalog. Address the makers.

ALBAUGH-DOVER CO. [CAPITAL, \$2,000,000.00] 2123 MARSHALL BLVD., CHICAGO, ILLINOIS



\$14⁸⁵

and Upward.

Thirty Days Free Trial.

Six Sizes to Select From.

Send for 1910 Catalog Free and Post-paid

Which One Will You Test on Your Farm for Ninety Days? Freight Prepaid

Which will you try. 30 Days' Free or 90 Days' Approval Test?

—Any capacity from 200 to 950 pounds per hour, according to your needs, and I'll save you from \$25.00 to \$50.00 on the price.

—The only Separator whose gearing runs in a "Bath of Oil" like a \$5,000 automobile—Feature worth \$50.00 alone.

—Automatically oils itself—Pour oil at the top, once a month from your oil jug or can—No danger of running dry, or ruining it like others—No oil cups to remember to fill or turn up twice a day.

—Dust-proof—Danger-proof—All gears enclosed—simple but standard built and absolutely dependable.

—Let me send you my Big New Separator Book—post paid—Free, so you and your wife and the boys and girls can talk it over and then try one of my separators under my easy plan for you to do it.

You'll call it the best if you test it alongside any of the highest priced \$85.00 and \$110.00 separators sold by anybody today—makers—catalog houses—dealers—jobbers or anybody else. Write me today.

Wm. Galloway, Pres. WM. GALLOWAY COMPANY 103 Galloway Sta., Waterloo, Ia.

Only \$33⁵⁰ and Up

I'll Save You \$25 to \$50

GALLOWAY'S New "Bath in Oil"

HIGH GRADE STANDARD CREAM SEPARATORS

—Has the only revolving supply tank—worth \$15.00 alone.

—Easiest to clean and the few parts come out easy and can't get back out of place.

—Easiest to run—high crank—low tank. With no high lifting and no "back-breaking" cranking.

—Gets the finest quality cream and all of it—no lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down.

—Skims closest in any climate or season, no matter whether your milk is warm or cold.

—Is as handsome a machine, compact and substantial, as you ever saw or could find. Beautiful finish.



When Writing to Advertisers Please Mention This Paper

The Only Planter that Plants Every Kernel Exactly the Same Depth

Corn all comes up at same time. Cultivation 1 to 3 days earlier. Gives quicker and better results.

The Only Planter that Covers in All Conditions of Soil

—even wet or sticky ground. Leaves ridge over corn, preventing washouts on hillsides. Harrowing levels ridge, making clean corn row, thus gaining one cultivation over ordinary covering wheels. Guaranteed not to clog. No stringing or scattering of seed.

The Only Planter that Drops All Kinds and Sizes of Corn Accurately

Simplest and most efficient drop made. Never cracks or grinds the seed. Works perfect all the time and lasts for years. Cannot get out of fix.

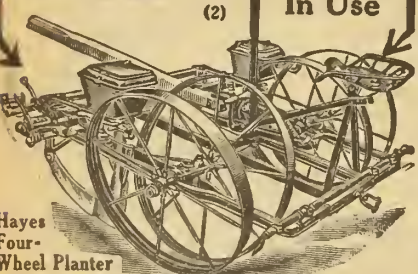
HAYES Four-Wheel PLANTER

checks straighter than any other planter made. Handles the easiest for man and team. The shortest coupled planter, making it the lightest draft, and can be turned in shortest space.

You can plant from 3 to 5 more acres a day with the Hayes, drop your corn more accurately, check it straighter, cover it better and get a more perfect stand and larger crop than with any other planter made.

Write for free Booklet "F." It contains planter facts you ought to know.

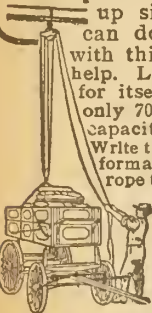
Hayes Pump & Planter Co. 125,000 Galva, Ill. In Use



Hayes Four-Wheel Planter

Perfect Tackle Blocks 70c Up

The Burr self-locking tackle block will positively not slip on wet, greasy or dry rope. Yet it has no teeth or claws to injure the rope as all others do. It has no springs of any kind to get out of order. It is as adjustable as a differential chain block. It will lock positively at any angle—even up side down. One man can do the work of four with this marvelous little farm help. Lasts a lifetime and pays for itself on one job. Prices only 70c to \$4.25, according to capacity of 600 lbs. up to 5,000 lbs. Write today for catalog and full information about the one practical rope tackle block on the market.



Burr Automatic Safety Tackle Block
BURR MFG. CO.
148 V�aduct Cleveland

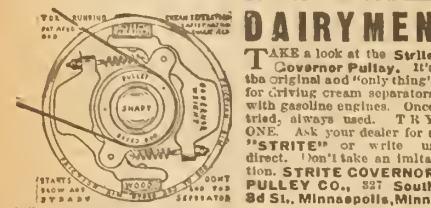
The Only Panel Silo

We use tongued and grooved panels, dovetailed at the ends and laid sideways instead of up and down. It makes a silo tight as a drum which will never shrink, warp or twist out of shape. Every panel is No. 1 Lumber—all bad spots cut out. All uprights in ONE PIECE. You'll never find a stave silo anywhere near so good, durable or long lived as the

Minneapolis SILO

Panel Shrinkproof
We can't begin to tell you all the money saving details here—but our book on Silos, Silage and Economical Feeding tells. Don't think of deciding on any silo until you have read this book and have done some thinking about what our exclusive points of merit mean to you.

Puffer-Hubbard Mfg. Co., Silo, F Minneapolis, Minn.
Note—We are distributors in the Northwest for the celebrated Cimax Ensilage Cutter.



NO SILO NEEDED

We can save you Hundreds of Dollars. Write at once for particulars concerning Stack Ensilage.

STACK ENSILAGE IMP. COMPANY,
Agents Wanted. Northwood, Iowa.

When writing to advertisers please mention this paper.

be found low forms of organic life—the ova of insects, parasites, etc. The luster of water is its degree of brilliancy. Chalk waters are exceedingly brilliant from the amount of carbonic acid they contain.

Good water should have no taste. However, freedom from taste does not necessarily indicate a freedom from pollution. Some of the worst waters from shallow wells are bright, sparkling and free from taste. Good water should have no smell. The best way to detect smell is by heating, which drives off the contained gases. Or a bottle of water may be set in a warm place for a few days, when the odor can be determined. The opinion formed of the purity of water from a physical examination alone may be very misleading, as a poor-looking water may be good, and vice versa. A chemical and bacteriological examination is necessary for an absolute determination of purity.

Augustus Forrest.

SUCCULENCE FOR COWS.

To the Editor of The Homestead:

Nothing is more sure than that after the cows have been out on the pasture a few months, the grass will begin to fail. Experience teaches us this beyond a possibility of doubt. The failure may be delayed somewhat by rain and favorable climatic conditions, but in most sections of the country the latter part of August or the early part of September sees the flush of pasture over.

But one result can follow this state of affairs. The milk yield will drop off materially unless we resort to some method of supplying the green feed the cows must have to enable them to hold up in their flow. No juicy food, no milk.

He is a wise man who foresees this time of dead, dry pastures and makes his plans to tide it over. Our short summer seasons teach just that one lesson—we must depend upon grain or green crops for our milk flow after the pastures begin to fail, or we will surely suffer loss.

Here comes in the value of the silo. The man who has a silo well filled with corn or some other form of ensilage may laugh at the midsummer drouth. He will gather in the checks while the man who is not thus equipped will be compelled to suffer loss. The modern silos will keep ensilage perfectly for summer feeding. When the grass falls off, then open the silo and give the cows some every day. That maintains the milk flow and brings in the checks, without which no farmer can succeed.

But not all as yet have silos. What then? Then the reliance must be on fresh-cut green feed. It is not too early to make preparation for this. Whatever crop may be used for soiling, this is the time to arrange for it.

On our own farm we have had good luck with oats and peas sowed together. One-third common field peas to two-thirds oats is the proportion we use. The first sowing is made about the time we finish sowing oats for grain. Then a couple of weeks later another sowing may be made. The land for this purpose ought to be rather near the barn, so that it would be comparatively easy to slip out and cut a load for the cows. By the time the first sowing is gone, the other would be far enough advanced to begin on. Still a third sowing might be made for later feeding.

And then, sweet corn makes a fine feed for this purpose. The seed costs a little more than that of common corn, but I think it is worth enough more to pay for the difference in cost. This I would plant, not sow, thick. Planted with plenty of room between the hills a good deal of ear corn may be grown on the stalks. This increases the feeding value very much. As soon as the oats and peas are gone the corn comes in to meet the demand, and this may be the plan all through the fall. It or some other plan must be adopted or we will surely be doing business at a loss or a very narrow margin.

E. L. Vincent.

ADMIRAL 2-MAN PRESS

3 FEEDS TO THE ROUND SELF FEEDER CONDENSING RACKER

ADMIRAL HAY PRESS CO. CHICAGO, ILL.



Big Strong Calves

mean healthy, profitable herds.

You can't afford to let your calves be stunted with skim milk and slop diet. You can't afford to feed them your profits in the form of whole milk. And it isn't necessary. You can raise four calves on Sugarota Calf Meal at the cost of raising one on whole milk, and get better results. Sugarota Calf Meal is balanced and mixed to meet the actual needs of the growing calf. It has been tested out in actual use on our experimental farm and its value proven; it is always uniform, making a complete dependable ration, preventing constipation and insuring health, vigor and vitality. Sugarota Calf Meal positively contains no dope to stimulate or to create artificial conditions.

It is the Malted Milk for Calves

We guarantee results. Your money back if it does not satisfy. Ask your dealer for Sugarota Calf Meal. Write for our Booklet on Raising Calves Right. It costs only the postal card request, and it is filled with money-saving facts.

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DAIRY AND LIVE STOCK FEEDS

are specialized, each for its particular purpose. In addition to Sugarota Calf Meal, our brands include Sugarota Dairy Feed, Sugarota Cattle Feed, Sugarota Horse Feed, Sugarota Swine Feed, Sugarota Sheep Feed, Sugarota Scratch Feed and Sugarota Chick Feed. Every separate brand is balanced for its special purpose, tested out on the animals for which it is made, and guaranteed to be better than any other feed, home-mixed or manufactured. Buy Sugarota Feeds from your dealer. If he doesn't handle them, write us and we will see that you get the feed, for trial on the money-back guarantee basis.

Ask for our Calf Feeding Booklet now.

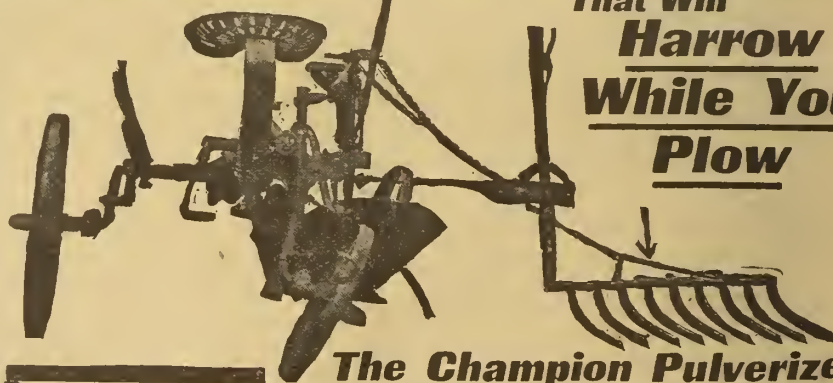
NORTH-WEST MILLS CO.
519 W. Third Street
Winona, Minn.



Here Is An Attachment For Your Sulky

Attachment or Gang Plow

That Will Harrow While You Plow



The Champion Pulverizer

The Champion Pulverizer is the invention of a practical Iowa farmer who realized that the best time to do his harrowing was just after the furrow was turned, and by means of the Champion he saved all the time that he usually used in harrowing, had his field in better condition for seeding and got better crops because the Champion saved most of the valuable moisture that with the ordinary way of plowing and harrowing was allowed to evaporate.

Size 1, the 5 blade Champion, can be attached to any make of sulky plow, either right or left, and size 2, the 9 blade Champion, can be attached to any make of gang or sulky plow.

Neither size creates any side draft and as the weight of size 1 is only 28 pounds and of size 2 only 38 pounds, the same team can with perfect ease do the same plowing in a day with a Champion attached as they would do without it.

The Champion is always under the easy control of the man operating the plow. It turns corners just as easily as the plow and will not clog in any kind of soil, as the blades are made of soft center plow steel which scours perfectly. It works just as easily in breaking new land or in corn fields, as it does in wheat, oat or other grain fields.

The Champion Pulverizer Will Save Its Cost in About

Two Days and We Pay The Freight

Thousands of Champions were used last year and thousands more will be used this year as farmers all over the country are ordering them now for their spring plowing. We guarantee every one to give perfect satisfaction or money will be refunded.

Write at once for illustrated circular, testimonials and prices.

Union Transfer Co., Box A, Dubuque, Iowa.

Send for this book before you buy a buggy

Don't buy till you get the big "1910" Murray Style Book of VEHICLES and HARNESS.

Compare it with others. It is the biggest, most complete, helpful vehicle and harness catalog published. Contains 192 pages. 345 illustrations. Murray sells direct to the consumer. Sold on trial. Guaranteed two (2) years. Safe delivery insured. You can't afford to buy till you know the wonderful values we offer. Our catalog free to you. Write today. The Wilber H. Murray Mfg. Co., 312-318 W. 5th St., Cincinnati, O.



Save 30%

When Writing to Advertisers Please Mention This Paper

DAY BY DAY

AGRICOLA

A pound of flax seed is cheaper than a pound of butter fat. The latter is too expensive to feed to calves. One of our most noted dairy professors cogitated over this fact and first gave to the world a proof that substituting a teaspoonful of flax seed for butter fat in the milk fed to the calf is a money maker and a calf maker. Just run the milk through a separator and fortify the skim milk with flax seed previously soaked in warm water and watch results. If you have to go to the drug store for the flax seed you will probably be asked ten cents a pound. This is a straw showing what the retailer in small quantities does to increase the expense of getting things from the producer to the consumer.

Is it the high cost of living or the cost of high living which is causing so much fuss? Something might be said on both sides, and much has already been said which is wide of the mark.

I never have been greatly enamored with a man who is too pious to enjoy the beauties of nature.

The man who whistles over his work has his heart in good working order, as well as his hands, but we too often whistle after things which can better be obtained without that preliminary.

The farm is called a lonesome place, a place of solitude. Well, great men can stand solitude. The shallow little fellows cannot.

Eggs are getting lower in price since the commencement of the inquiry into the high cost of living, and some people think the investigation is the cause. I never knew a spring when they did not fall in price, however, regardless of congress or any other creature except the hen herself.

I have found it a good plan to "green" potatoes before planting them. Expose them in a thin layer to the rays of the sun in some place where they will not freeze. Thick, stubby shoots will start.

In testing seed corn it is possible to be misled by the results. Immature seed has been known to show up better under favorable conditions for germination than mature seed. So if the temperature is warmer under the test than it will be in the field when planted the results of the test may not be duplicated in the field. Dry seed is slower to absorb moisture and start than is moist seed, but after it does start it has vigor and endurance.

Very great is the decrease in the output of butter in this country as compared with the past ten or twelve years. This is because farmers have become more prosperous and do not have to milk cows to keep the wolf from the door. The hired help problem of course has its effects. If we should by any chance have a fresh dose of hard times help would be more plentiful and milking cows would be resorted to to relieve the situation.

It does not pay to use the sled stake method now to make the pigs uniform in size. Give the runt of the litter to your little boy or girl and you may be surprised a few months later to find the runt something to be proud of. And give the credit to the child who won it, also the hog which it grew up to be.

Some way I always feel like trusting the man or woman who is a lover of flowers. It is evidence of the possession of gentle and amiable heart qualities. Add to this the love of little children and you can reasonably put more trust in him or her than you can in those lacking these saving graces.

Throwing stones at the man who "is higher up" is a poor way to try to rise in the world.

If you make mistakes in farming, the farm will "blab" and tell all about your shortcomings.

The old-fashioned way did furnish a good stock of citizens. Modern methods make for economy—the immense

manufacturing plants and each man doing the same little thing all the time and becoming an expert in that line—but when a farmer with a large family would spare some boys to help a neighbor, the boy would save his money and in later life hire other boys. This made good men and good citizens.

Farmers made their hired help members of the family and took personal interest in them. Workmen in large factories have no home life in touch with their employers, and too many of them, no home life of any kind, and at best they live the lives of dependents.

The employe who never becomes an employer is handicapped in his en-

deavors towards all-round mental development.

As this is written one of the corn belt states is holding a good roads convention. There are at this time positively no good roads in this county. The deep snow is soft and melting and the horses cannot walk on the pikes. So travel is through the fields where there are no roads. But the time is close at hand when mud will be the trouble, and if the good roads apostles will show how to keep mud out of the roads we shall all arise and call them blessed.

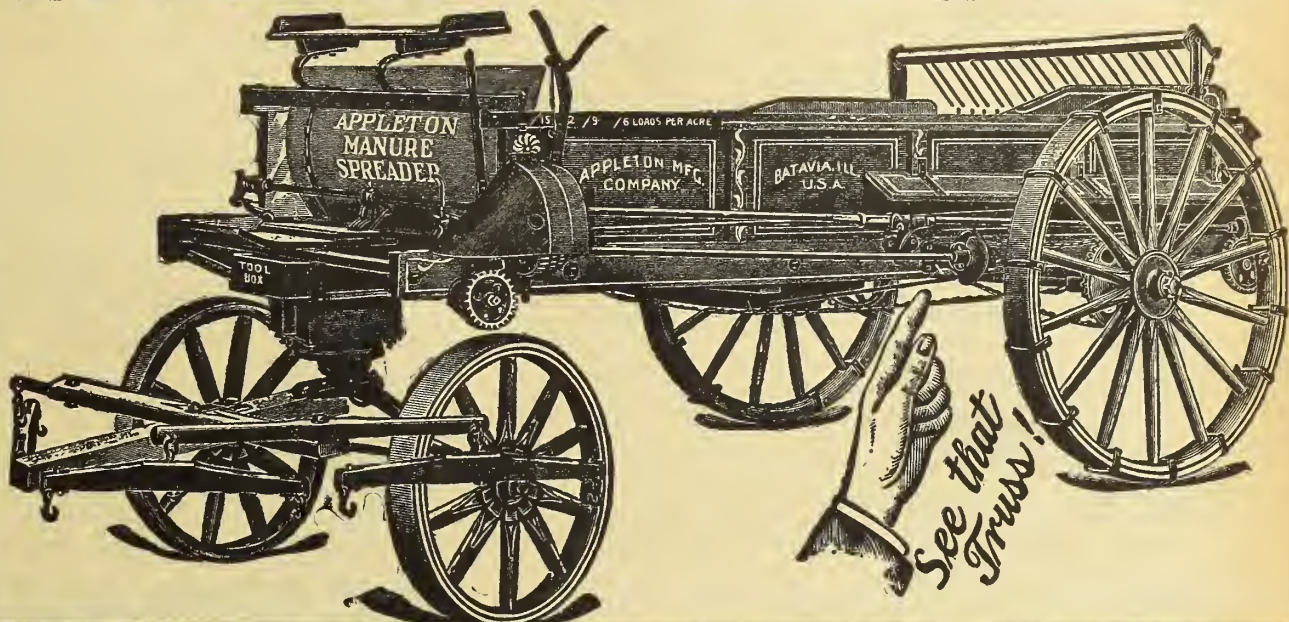
After many years' use of a farm separator I am satisfied that a tread

power is unsurpassed for running such a machine. It is always ready, starts quietly and never gets out of order. If turned by hand, buy a separator of large capacity so as to make a short job of it. If run by power this is not imperative.

Now that we have all received our free garden seeds let congress adjourn.

"A hen," says a country editor, "is worth as much as a hog used to be. A hog brings as much as a good horse used to cost. Two good teams of mules cost as much as an eighty-acre farm did twenty years ago, and two good farms now cost as much as the president's salary for a year."

THE APPLETON!



The best manure spreader made for the best farmers in the World

You, as a business farmer, are more interested in the service a manure spreader will give you than you are in the personal appearance or characteristics of the handsomest man in our employ, or in whether the fabled tortoise or the fabled hare holds the record for the fastest mile, or in the financial needs of struggling manufacturers, or in the childish bickerings of rival manufacturers, or in any outside consideration whatsoever.

That's why we show a plain picture of the machine we have to sell. We have nothing to sell except farm machines of known quality. We don't care whether the man who designs them is good looking or not, and we are sure you don't.

It is service that counts!

You have been in the business of farming long enough to know what you want, and to know what will do the work you want to do. You want to buy a manure spreader—you don't want to make one, nor help to make one—and you want it for the service it will give you.

You can try an Appleton manure spreader before buying it. It is honestly guaranteed, just as you would guarantee any article that you sold to your best friend, and back of that guarantee is the established reputation and the entire worth of a company that has been making farm machines of known quality since 1872.

Advertising sells goods. The more we sell the cheaper we can manufacture. It is merely a question whether it is more profitable to pay your dealer to advertise our goods or pay more to the publishers of some papers who can't do your town a bit of good. We find that we can save you money and sell more goods by working hand in hand with a dealer in your town. You can always get a better machine, and get better prices, quality considered, from an Appleton dealer than from anyone else, and you get his services for nothing, and it's service that counts!

You don't buy a pig in a bag when you buy an Appleton manure spreader. We could give you a hundred reasons why it will give you better service than any other spreader made, but we prefer to have you try the machine itself. Right now, while you are thinking about it, just call up your dealer on the phone and make an appointment with him to try an Appleton manure spreader under our guarantee. If he does not have an Appleton in stock don't buy any other until you hear from us, but write us a letter, or a postal card, or mail us the coupon which you will find in the lower right hand corner of this advertisement, and we will at once send you our Big Little Book About Manure Spreaders (big in truth telling, complete in detail, and so compact that you don't have to take a day off to read it), and we will see that you get a free trial of The Appleton under our guarantee, and that you get the squarest kind of a deal. Send for the book anyway—it is free.

All we ask is a chance to prove to you that the Appleton manure spreader is as strong as steel, oak and common sense can make it; that it is so simple that any boy who can drive a team can run it as well as any man; that it is easier to load than an ordinary farm wagon; that it is more easily and more quickly set up than any other; that it is easier for the horses to start; that it never bunches the manure, but pulverizes it thoroughly and spreads it evenly and uniformly, thick or thin as desired; and it is easily worth every cent we ask for it.

SHALL WE SEND YOU THE EVIDENCE?

N. B. Solely because we want to stimulate the interest of the best farmers in the world in the best manure spreader made we are distributing \$100.00 in cash prizes for the best ears of seed corn.

Ask for full particulars of this contest.

Appleton Manufacturing Co.
39 Fargo St., Batavia, Ill., U. S. A.

APPLETON
QUALITY
FARM MACHINES

ESTABLISHED 1872

Appleton Mfg. Co.
Batavia, Ill.
39 Fargo St.

Please send me, postage prepaid, a copy of your BIG LITTLE BOOK ABOUT MANURE SPREADERS, and explain your proposition of a free trial, under your official warranty. My dealer's name is

It is understood that this request does not obligate me to anything.

Name

R. F. D.

Town

State



Kramer's Celebrated
Twentieth Century Pansies

SOUVENIR PANSY POST CARDS

Special Offer—One packet of Kramer's 20th Century Giant Pansy Mixture, price 15c, together with eight of these beautiful cards in colors, for only 14 cents. Order at once. Illustrated Catalogue of everything for the garden, free. Mention this paper.

J. N. KRAMER & SON, Cedar Rapids, Iowa

Money in Early Tomatoes

One of my customers sold \$102.35 worth of big, red tomatoes from 100 plants in his back yard. Another from 14 plants in her flower garden, sold 312 lbs. during July and August for \$16.70. It's all in the knowing how and in using the right seed. They used my new tomato—

Field's Early June

Earlier than Esrlina, as handsome as Stone, as solid as Ponderosa, and a greater yielder than any of them. The greatest new tomato in 25 years. Small pkt., 20c; 3 for 50c; 1/4 oz., \$1. (This for specially selected seed, saved early.) My Garden Manual and Seed Catalog will give lots of pointers and good advice about gardening. It's well worth reading. Get it and see.

Henry Field, Pres.
HENRY FIELD SEED CO.
Box 25 Shenandoah, Ia.

The New Hired Man

\$2.50

No, not \$2.50 per day but \$2.50 for all time. One man can bag more and load more grain with an

E-Z Truck and Bag Holder
as two can by the old method. No use for a man to hold bags for filling.

Saves One Man's Work
Bag is adjusted to holder ON truck, and when full wheeled where desired without lifting or dragging.

Try One 30 Days
and if it doesn't suit you, get your money back. Write at once for particulars.
Address Dept. 9

\$2.50

E-Z BAGHOLDER CO., Marinette, Wis.

GOOD SEEDS

BEST IN THE WORLD
PRICES BELOW ALL OTHERS

I give a lot of new sorts for trial with every order I fill. A Grand Big Catalog illustrated with over 700 engravings of vegetables and flowers. Send yours and your neighbors' addresses.

R. H. SHUMWAY, Rockford, Illinois

SEEDS FREE 9 LARGE PACKETS

BIGGEST SEED OFFER EVER MADE
Send 10c for packet of our wonderful Earlbell Tomato and receive four 10c PACKETS FREE of our finest improved varieties: 1 each Cabbage, Cucumber, Melon and Pepper. Also 25c cash certificate for 5 free packets, your selection, or apply as 25c cash order. Send 10c today and receive all above. Our big 100-page catalog free. Address
A. A. Borry Seed Co., Box 303, Clarinda, Ia.

EVERGREENS

200 Norway Spruce, 3 to 6 in., \$1; 100 Arbor Vitae, 3 to 6 in., \$1. Prepaid by mail. Many other \$1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price list free. HARVARD NURSERY, Box W, HARVARD, ILL.

When writing mention this paper.



THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

SUCCESS WITH CAULIFLOWER.

This is no doubt one of the most delicious vegetables we have. Many people do not try to grow it at all, thinking it is too hard to grow. However, this is a mistake, for cauliflower can be grown almost as easily as cabbage by following a few simple instructions. The two main points to be considered are that it requires a rich, heavy soil, and plenty of moisture. Cauliflower will not head well during hot weather so we must make the planting to have them head before or after our hot summer months. For early crop start the seed in a box indoors or in a hotbed early in March and when the second pair of leaves are well developed transplant into other boxes or beds to stand three inches apart each way. Give the plants plenty of fresh air and sunshine whenever the weather will permit to encourage the forming of strong, stocky plants.

When the weather is settled set the plants out into the garden to stand two and one-half feet apart each way. A rich, moist soil and frequent waterings, if the soil is dry, will be a great advantage, for in order to have fine heads the plants must make a rapid growth. Keep the soil fine and loose at all times not only to keep down the weeds, but also to preserve as much moisture as possible. For late or fall crop sow the seed in a finely prepared seed bed about the middle of May and when the plants are about three inches high they may be transplanted into the garden as directed above for the early crop. If the soil is at all dry at the time of transplanting the plants should be watered until they are well started. As good cauliflower seed is very expensive great care should be used in sowing the seed evenly and thinly, and in giving the plants proper attention. When the heads begin to form tie the leaves over them with a soft string so as to keep the heads white.

CUCUMBERS.

These can be grown on almost any garden soil, providing there is enough fertilizer added to make the soil quite rich. The plants are very tender and, therefore, the seed should not be planted before the nights are quite warm and danger from frost is past. Prepare hills four to five feet apart each way by mixing a shovelful of well-rotted manure with the soil of each hill. For best results the hill should be slightly raised or about three inches higher than the level of the soil. Plant from fifteen to twenty seeds in each hill to make an allowance for the striped bugs which are sure to give them a call. It is always better to plant seeds a little too thick than to have them too thin and afterwards have to replant. If the soil is so rich that it does not need any manure the seed may be sown in drills having the rows about five feet apart and after the plants are well started they may be thinned out to stand one foot apart in the rows, or if the seed were planted in hills they should be thinned out to the three best plants in each hill.

To protect the plants from the ravages of insects, dust the plants with air-slaked lime, soot or wood ashes early in the morning while the dew is still on. A little Paris green added to any of the above will make them still more effective. Apply any of these as soon as the plants come up even if there are no bugs present. Remember that an ounce of prevention is better than a pound of cure. Cultivate or hoe frequently until the vines commence to run. After that they should not be cultivated, as the plants are easily injured and the small feed roots of the plants spread almost as far as the vines and are quite near the surface.

Pick the fruits as soon as they are large enough for use whether they are wanted for use or not, for if any of

the fruits are allowed to ripen it will greatly check their productiveness. If you wish to plant cucumbers only for pickles make the planting about the middle of June, preparing the hills as directed above. The plants seem to grow better and bear more profusely during the cool fall months than during the summer and generally there is not as much danger of having the plants destroyed by insects. Cucumbers should always be cut, never pulled from the vines, as by the latter method you are very apt to injure the vines.

THE PRUNING OF APPLE TREES.

In the removal of large branches from old or bearing trees always make the cut parallel with the branch or main stem from which the one is removed, says Professor W. S. Thornber, of Washington, in Popular Bulletin No. 24, on, "The pruning of Apple



12 Hardy Blizzard Belt Strawberry Plants FREE!

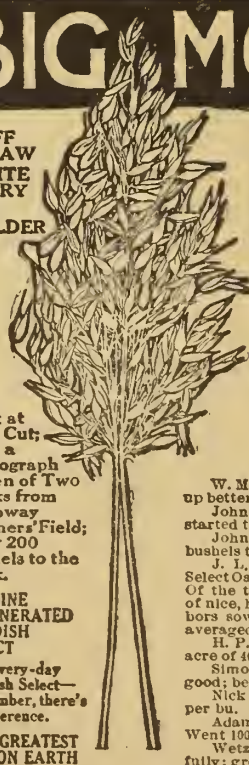
Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruited, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS OF HARDY "BLIZZARD BELT" fruits by next mail. Address
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Address, RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

BIG MONEY IN OATS

STIFF
STRAW
WHITE
BERRY
BIG
YIELDER



If You Raise the Right Kind. Here's Your Chance to Get Them. Imported Canadian Seed Oats for Sale.

THEY have proven their worth in this country from different reports we have received from farmers who bought last year—Some of them doubling, and in many cases tripling their crops from this seed, as compared with their old run-out, inbred seed.

Send for free sample which will speak for itself, or send ten cents for good-sized packet of one or both kinds of these oats.

Try some of these wonderful oats. We make a specialty of growing seed oats on our big Canadian farm. New, clean land; no weeds; located at Lajord, Sask., Canada. We have best-known varieties. Regenerated Swedish Select went 116 bushels to acre. Most wonderful oat we have ever seen. This may look like a big yield to farmers of this country, but it is true just the same. They stood 5 1/2 feet tall, have stiff straw, large, plump, white grain, very thin husk, and an early variety. For this seed we originally paid Garton Bros., of England, \$2.00 a bushel for 250 bushels, put them in on specially prepared ground, and will vouch for their quality.

We also have a quantity of Early New Market Oats—Canada's very best-known variety and an enormous yielder.

Here's what farmers write us who bought last year:

W. McConnell, Baldwin, Wis.—"We threshed out 85 bushels per acre, stood up better than any other oats."

John Stuppy, Lowell, Ind.—"They come up to my chin and nose before they started to head."

John E. Otto, Dows, Iowa—"Stood up in fine shape; turnout was good. 90 bushels to acre by weight. They weighed 41 pounds to the measured bushel."

J. L. Slick, Lanark, Ill., writes—"In regard to Regenerated Swedish Select Oats I bought from you last spring, I am more than pleased with them. Of the twenty acres sown of this seed fifteen acres went 80 bu. to the acre of nice, healthy, plump oats, weighing 37 lbs. to bushel. Some of my neighbors sowed very inferior seed and reaped from 15 to 18 bu. per acre. They averaged 50 in. high, free from any foreign seed, and are all pure oats."

H. P. Rund, Bronson, Minn.—"Oats were dandy. Yielded 95 1/2 bushels to acre of 40 lbs. Common varieties go 40 bu. per acre. See difference?"

Simon Simonson, Tyler, Wis.—"They yielded 48 lbs. per bu. stood up very good; best I ever saw."

Nick W. Klein, Vernon, S. D.—"I got 70 bu. by weight. They weighed 43 lbs. per bu."

Adam Czerwonska, Chetek, Wis.—"Early New Market turned out good. Went 100 bushels to acre. Weighed 34 lbs. per bushel."

Wetzel Bros., Floyd, Iowa—"Your Early New Market oats did just wonderfully; grew 5 1/2 ft. tall; stood up fine till they were cut; went 65 to 70 bu. per acre. Had other oats that went about 25 bu. per acre by measure. Could sell all we raised a dozen times over to our neighbors."

This is what people say who have tried these oats in this country. We believe it will pay you to try some of this new seed. There is more money year in and year out in oats than any other grain, if you raise the right kind. They are easy to raise and generally a sure crop.

Remember, Northern-grown seed is the kind of seed for this country. All the oats we have to offer are guaranteed to be clean, free from foul seed; and, according to Canadian Government Grain Inspector, they grade No. 1 White—almost an unknown quantity in the United States.

Here is what Professor M. L. Bowman, former professor of Farm Crops, Iowa Agricultural College, says: "I visited Galloway Brothers' big farm in Canada, and was much impressed with the way they farm. I saw these seed oats they are offering. They are fine, pure, clean, big oats, and I believe it will pay any farmer to try ten or twenty bushels of this seed."—M. L. BOWMAN.

If you are interested in any of this grain, write us at once for free sample, or send us ten cents for a packet of one or both kinds. We will also mail you free our little booklet entitled, "Big Money in Oats and How to Grow Them," with authority on how to increase the yield. The oat yield of this country could be doubled if the farmers would follow instructions in this book, gotten out by Prof. M. L. Bowman and Galloway Brothers, Oats Specialists.

Don't wait until it is too late. Many people were disappointed last year in not getting seed from us, because they waited until our supply was run out.

All Minnesota, Wisconsin, North and South Dakota, Montana and northwestern orders will be filled direct from Minneapolis, Minn.

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GALLOWAY BROTHERS, 102 Galloway Station, WATERLOO, IOWA

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Minnesota raised more corn per acre last year than Iowa, the famous Corn & Hog State. Why? Because Minn. Corn is impregnated with vigor, vitality and productiveness of our cold northern climate and stands more hardships than other corn; furthermore thousands of bushels of our famous Faribault grown Seed Corn are planted here every year, which helped to score such high average. Such varieties as Golden Jewel, Silver Jewel, Rice Co. Mammoth, etc. we have bred up for perfectness of type, early maturity and freedom from barrenness and are wonderful yielders. Produce good sized ears and yield from 85 to 125 bus. per acre. No matter where you are located plant our Faribault grown Corn and produce a big crop. We grow also the earliest kinds for the extreme North, the N. D. Agr. College Golden Dent, 60 day Flint, etc.

On our Faribault Seed Farms we grow also the best kinds of Seed Oats, Wheat, Barley, etc. from pedigreed Seed Stock.

10 samples of the best kinds of Seed Corn & Seed Grain for 10c. Nursery stock at wholesale prices. Write for large illustrated seed book.

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- 1 pkg. Radish, Giant Japan, largest in world, 15 to 20 lbs.
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- 1 pkg. Lettuce, All Summer, good all times, early or late.
- 1 pkg. Pop Corn, Baby Golden small, 6 to 8 ears on stalk.
- 1 pkg. Sweet Corn, North Pole, earliest known.
- 1 pkg. Tomato Peach, grows rapid, looks like peaches.
- 1 pkg. Onion, Giant American, largest of all onions.
- 1 pkg. Chinese Lantern Plant, fruits like Chin. lanterns.
- 1 pkg. Giant Raspberry-Blackberry, large, grows from seed.
- 1 pkg. Coffee Berry, a good substitute for coffee, seed.
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- 1 pkg. Sweet Peas, 35 kinds in gorgeous mixture.

These 12 Sample Lots growing in your garden, will be your delight to show and surprise your neighbors, and we will mail all 12 pkgs. in a Coupon Envelope for 6c. postage and packing, and this Coupon Envelope when enclosed will be accepted as 10c. payment on anything in our catalog.

1910 Catalog of Seeds, Plants, Fruits, Novelties, with 12 Colored Plates, mailed free with all Sample lots. MILLS SEED CO., Box 600 WASHINGTON, IOWA.

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Why plant doubtful seed corn when you can get the best that grows, at a reasonable price. PURE BRED, practical varieties—yields big crops and make good money. We have it. We know it as well that we fully GUARANTEE IT. Test it any way you want and if not fully satisfactory, return at our expense. Fair enough, isn't it? Better buy seed corn of high germination, be sure of your seed and take no chances on doubtful seed.

Wouldn't you like to have some samples of seed corn, suitable for your location and our fine illustrated catalog, telling about our guaranteed seed. All free—write today. A. A. BERRY SEED CO., Box 603 CLARINDA, IOWA.

20 Lily of the Valley

Roots 25¢ The most delicately beautiful of all flowers. It is a perfectly hardy perennial, easily grown and produces an abundance of lovely pure white, bell shaped flowers, which are deliciously fragrant. Have usually been quite expensive, but we have a large stock this year and offer 20 nice roots for 25¢; 100, \$1.00; 1,000, \$8.00; charges prepaid with directions for growing. Our large catalog of plants, seeds, etc., free. IOWA SEED CO., Dept. D, DES MOINES, IA.

200 Plants \$1.00

100 of that choice new variety Senator Dunlap and 100 of two other choice varieties, and printed instructions with each order on how to grow them. J. L. TODD & CO., R. 3, Indianola Ave., Des Moines, Ia.

200 Tomato Seeds 2¢

and our large 1910 catalog of every kind of farm, vegetable and flower seeds. Sent for a 2 cent stamp. GUTHRIE-LORENZ COMPANY 431 7th Street, Des Moines, Iowa.

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Strong, healthy seedlings of true Hardy Catalpa—Catalpa Speciosa 100 for \$1.00 Postpaid, or 300 for \$2.50 by Prepaid Express. Safe arrival guaranteed. Seed 25c per oz. or \$2.00 per lb. postpaid. Special Prices on large lots of seed or seedlings. HENRY FIELD SEED CO., Dept. 25 Shenandoah, Iowa.

Trees." This frequently means a larger wound than it would make if the cut is made at right angles to the limb that is to be removed, but such wounds will heal quicker and are less injurious to the tree than the much smaller ones that leave the collar of the branch to be covered with healing tissue. Do not hesitate to remove large useless or superfluous limbs from trees, but always make smooth, clean cuts with a saw, and if necessary to prevent splitting the stem or peeling the bark, make two cuts—the first from six to twelve inches out from where the limb is to be finally cut off. Nothing can be applied to the wound to hasten the healing. Wounds an inch or less in diameter need not be treated, while larger wounds may be advantageously treated with a thick coat of lead paint. Cheap mineral paint or tar should not be used upon fruit trees, as it kills the young, tender bark while grafting waxes crack and peel off before the wound has healed. Any antiseptic that will keep the moisture out makes an excellent coating.

POTATO QUESTIONS.

A subscriber who has a five-acre piece of land, sloping to the south, which grew corn last year at the rate of eighty bushels per acre, wants to know about planting it to potatoes. From what you say of this land, we judge it to be in good shape for this crop. Soil that will produce eighty bushels of corn, must be rich. But it should be in fine, mellow shape for potatoes. We mean work it thoroughly before planting, subduing it by deep plowing, and harrowing.

If the slope to the south is sufficient to give it a considerable advantage, in earliness, you can very likely get a crop of the early Ohio ready for market, while prices are good. You could make no better selection of variety.

We would plant about six inches deep, but the ground should be mellow for ten inches. Cut the tubers in four pieces, and that will give you three or four eyes per hill. One piece in a place, and dropped a foot apart is about right. The rows should be four feet apart to make plenty of space for the cultivator. Eight or ten bushels according to the size of the tubers, will be seed enough per acre.

GROWING GARDEN PEAS.

Peas can be successfully grown in almost every garden, but for earliness a light, warm, moderately rich soil is to be preferred. A piece of ground that has been heavily manured the previous season is to be preferred to one manured in the spring, as too rich a soil will cause the plants to make an overgrowth of vines at the expense of pods. If manure is used at all it should be fine and thoroughly rotted.

The first sowing should be made as early in the spring as the soil can be worked in good condition; and for a succession make sowings every two weeks until June. Sow in rows fifteen to twenty inches apart, depending on the variety, and if possible have the rows running north and south. The peas for the first crop should be covered one inch deep, and remember this applies only to the first sowing. The pea is a moisture loving plant and has a deep root system. The largest crops and most luscious flavored peas can be grown by sowing the seed in trenches five inches deep. Cover the seed about two inches deep at first and as the plants grow fill in gradually until the trench is level full.

In sowing peas it is well to remember that the wrinkled sorts are quite tender and should not be planted until the ground has become well warmed, usually about the time the trees are starting out in leaf, or the seed may rot in the ground. For the first sowing it is safest to use the smooth seeded varieties. Although many seedsmen recommend sowing one quart of peas to 100 feet of rows the writer knows from continued experiments that this is too thick, you can grow larger pods and more of them by having the single plants at least one or even two inches apart.

It used to be a general accepted rule that if you wanted fine flavored peas you had to plant some of the tall

APPLES, PEACHES, CHERRIES,

PLANTS, SHRUBS

Why not have a little fruit of your own; and your front yard decorated with a few hardy, ornamental shrubs and trees? Read every word of this generous offer:

- 2 Duchess apple, 2 years old.
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- 5 Salway peaches, 2 years old.
- 2 Montmorency cherries, 2 years old.
- 25 Bubach strawberry plant.
- 25 German Iris—fine.
- 1 Snowball.
- 1 Spirea.
- 5 Norway poplars, 3 to 4 feet.
- 5 Concord grapes.

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Send us your order in 15 days and we will include with the above: One Dorothy Perkins Rose, one Baltimore Belle Rose, one Hydrangea and one Honeysuckle. Address

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A Planet Jr farm or garden Cultivator often does three to six times the work of one man with ordinary implements; and cultivates so thoroughly that you get more and better crops. Strong and substantially built. Fully guaranteed.

New No. 14 Planet Jr. Double-Wheel Disc-Hoe, Cultivator and Plow has three adjustable discs on each side, a pair of new-idea pronged cultivator teeth that run shallow next the row, steels for plowing, furrowing, and covering, and a pair of leaf-lifters.

No. 8 Planet Jr. Horse-Hoe and Cultivator plows to or from the row. A splendid furrower, coverer, hiller and horse-hoe, and unequalled as a horse-cultivator. Write today for the 56-page 1910 Planet Jr. catalogue of 55 different tools. Free and postpaid.

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Express Prepaid

These trees have been transplanted and root-pruned, which gives them the large abundance of roots necessary to the life of the tree. They are from 1 to 1½ feet in height and first class in every way. Then they are backed by the fairest guarantee of any nursery in the U. S. and by the reputation of

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Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

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MEANS 10 to 25 bu. increased yield per acre wherever planted. We have a limited supply of extra fine ear seed, selected early and showing very high vitality test, and we offer it while it lasts at \$4 per bu. 15 or more bu. at \$3 per bu. Sold only in ear, subject to approval and test, and guaranteed to test 94% or better, or money refunded. Send order at once to

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White Hulless Barley

The Best Feeding Barley Grown

NO BARLEY has proved so valuable to the stock raiser as the White Hulless. No other can compare with it in earliness, yield and quality. It is both hulless and beardless. It will mature in from 60 to 90 days. It yields enormously, from 35 to 80 bushels to the acre. As a feed for horses, cattle, hogs, poultry and all kinds of stock it is especially desirable. Makes fine hay and does not lodge.

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BEST NEW CROP GROWN SEEDS IN THE WORLD AT FARMER PRICES. In addition we give a whole lot of extra seeds with every order. OUR BIG ILLUSTRATED CATALOGUE OF FARM AND GARDEN SEEDS IS NOW READY. It is FREE to you. A postal card will bring it to your door. Write for it today; also send the address of your neighbors who buy seeds. Address,

RATEKIN'S SEED HOUSE,
SHENANDOAH, IOWA

1/4 CENTURY OFFER

1/4 FLOWERING BECHTEL CRAB FREE

A GEM among flowering trees: A theme for poets, Extra hardy, flowers double, all pink, delicious wild crab odor. We give it and our FREE beautifully illustrated Nursery Catalogue.

A QUARTER OF A CENTURY in Sioux City! In its honor we make a grand offer to all customers. Four beautiful plants: Bechtel flowering, Crab Grand Paenony, two rare vines, six superb Camellias. Too good to miss. Catalogue tells all about it, and how to plant, prune and care for trees. Most complete line EXTRA HARDY NORTHERN GROWN trees, shrubs, vines, bulbs, roses, perennials, paenonies, etc. In the northwest. Quality the best. Prices right. Write today for catalogue 25.

SIoux CITY SEED & NURSERY CO., Sioux City, Ia.

GARDEN SEEDS FREE!

FIVE PACKETS FOR TRIAL

We have arranged to give to each new customer absolutely free five regular sized packets of our Superior Guaranteed Garden Seed, your selection. Write today for 25c certificate, which entitles you to these free packets and our big 100-page illustrated catalogue, so you may make your selection and become acquainted with our seeds. If you give our seeds a trial we are sure you will become one of our customers. Write today for our big 1910 100-page illustrated seed catalogue. Address

A. J. FERRY SEED CO., Box 203 Clarinda, Ia.

growing varieties. This may have been true years ago, but it is no longer the case now, as we have dwarf varieties that produce peas fully as fine in flavor as the tall growing sorts. The dwarf varieties are even surer croppers than the taller ones, and by sowing the dwarf sorts you will save the disagreeable job of providing a trellis. Peas should be cultivated deep and often until the blossoms appear. They will not do well two years in succession on the same land.

ONION GROWING.

Onions will do well on almost any rich soil, but the largest crops can be raised on soil that is naturally moist, and if such a piece of ground can be had in the garden it should be planted to onions, as they will do well on the same piece of ground year after year if enough fertilizer is applied. If possible finely rotted manure should be applied the previous fall and the ground plowed; you can then sow the seed so much earlier in the spring. Before applying the manure the ground should be cleared of all rubbish, for if allowed to remain some of it will stick up and cause considerable bother in cultivating the crop. Fresh manure applied in the spring has a tendency to cause the bulbs to run to scallions and be soft, and for this reason it should be avoided. If the ground has not been plowed in the fall it should be plowed as early in the spring as the soil can be worked in good condition. Make the soil fine and level with a rake and sow the seed in perfectly straight rows fifteen inches apart, covering the seed about one-fourth inch deep, firm the soil well over the seed to insure good germination.

As soon as the rows can be plainly seen commence to work the soil and when the plants are about two inches high thin out to stand four inches apart in the rows. A wheel hoe makes an excellent tool for cultivating onions, or in fact any garden crop. They can be purchased for such low figures that any person having a family garden can afford one. Cultivate frequently to keep down the weeds and if any appear among the plants they should be pulled by hand. Be careful not to disturb the roots of the growing or to cut into the bulbs when they begin to form, as that would be apt to cause them to rot. If the crop is wanted for very early use it is better to use the sets instead of the seed. To hurry the crop to maturity use some quick acting fertilizer like hen manure or nitrate of soda. If nitrate is used it should be applied broadcast or sown along the rows and lightly raked in, this is a very quick acting fertilizer and care should be used not to apply it too thickly. One-fourth pound to one hundred square feet of bed is none too thin. When the bulbs are of fairly good size the tops should be broken over by stepping on them or using a light roller. This will encourage the forming of solid, well ripened bulbs. After the tops commence to turn yellow the crop is ready for harvesting. The whole bulbs should be pulled and allowed to lie in the sun several days to thoroughly dry them when they should be stored in shallow boxes or baskets in a cool, dry cellar or loft.

PRUNING GRAPES AND FRUIT TREES.

A subscriber asks about the proper time and method of pruning grape vines and fruit trees. Pruning is so important that it should be done at any time rather than left undone. But there is a choice of seasons, for the reason that the tree will recover more quickly from the wounds at some times than at others. Avoid, if possible, cutting either vines or trees just as the sap is starting in the spring. In that case much sap will run from the wounds and, while this loss will not be fatal, it certainly is unnatural, and must weaken the tree or vine. The very best time for trimming the grape is in the late fall or early winter. If done then the cuts dry up and harden so that there will be no exudation of sap. But many people do it late in March, or even in April. Nearly every month has its advocate for trimming fruit trees, but the majority of fruit men in this latitude advise June, because the trees are

then making the most rapid growth, and the cuts will heal over quickly. This means in the case of small limbs, for it will take large wounds several years, at best, to bark over. A large book might be written on methods of pruning and we can only summarize some important points. A common mistake with grapes is to leave too much wood, and the rule is: much wood, little fruit. A five-year-old vine should have two main branches from the ground. Each of these may divide into two, making four leaders, and each leader may have three fruit spurs, that is, stems of last year's growth about two feet long. That gives you twelve fruit spurs, which should give you, under favorable conditions, five or six clusters to the spur. Twenty or twenty-five good clusters are all you can expect per vine. You cannot bring all your vines to the ideal shape, but aim in trimming to approach it. It may take several years to attain it. Always bear in mind that the fruit grows upon last season's wood. And always remember that a lot of wood—a multiplicity of vines crowded upon the trellis—means

16¢ SEED BARGAIN

Here is a joy collection, beating the world, composed of 10,000 kernels in—

- Richest, juiciest, tenderest seeds.
- 1800 Each, Lettuce, Turnip, Rutabaga.
- 1000 Each, Onion, Celery, Carrot.
- 1000 Rarest Radishes, alone worth 16c!
- 100 Each, Parsley, Melon, Tomato.
- 1200 Brilliant Flower Seeds, 80 Sorts.
- In all 10,000 kernels, including big catalog, all postpaid, only 16c in stamps.

Send us a name for our new breed of corn before May 10th. If it is accepted, you win

\$500 IN GOLD

The new corn is not for sale, but 40 brings sample packet. You need not get sample to enter contest, however. Just give us the best name. If another sends in same (acceptable) name as you do, the prize will be equally divided. Mammoth catalog loaded with Seed News free. Address

JOHN A. SALZER SEED CO.
124 So. 6th St. La Crosse, Wis.

SEED POTATOES

CARMEN NO. 3—best late, white, yield; better than Rural N. Y., which they much resemble. Save money by buying direct from the grower. 5 bushel or more, 80c bu. Less amounts \$1 bu. S. C. Buff Oregon eggs \$1 per 15. Extra good mating. Address **O. J. EARLY, BRISTOW, IOWA.**

When writing mention this paper.

Every Farmer Needs a Grain Grader and Cleaner on His Farm

It means the keeping of your farm free from noxious weeds. It means more than that—it means larger and better crops, as by grading, the grain you sow will be only the best quality, and therefore of stronger germinating power and more vigorous growth. Experiments by the agricultural colleges have demonstrated that it increases the yield from 5 to 12% bushels per acre. Just think what that means each year, and we'll not need to argue the question, as you can't help but be convinced. We claim that

The Hawkeye Grader and Cleaner is the Best Machine for the Farmer

It will clean any kind of grain or grass seed. It will grade seed oats, seed wheat and seed corn. You don't need to have two machines (one for corn and one for grain) where you have the Hawkeye. When you run seed, whether grass or grain, through the Hawkeye you know you are doing your part to clean up your farm from weeds. Best of all, the Hawkeye Grader and Cleaner is sold at a price any farmer can afford to pay, being the **cheapest good machine** on the market. We know that our machine has been and will be quickly appreciated by the farmer who sees it and looks into its merits. Write today for our catalog.

THE MAYTAG COMPANY, 300 North St., NEWTON, IOWA
Successors to Parsons-Hawkeye Manufacturing Company
Also Man'rs of Hawkeye Automatic Hog Waterers, Automatic Feeders, Hawkeye Manure Spreaders, etc.

Apple Trees, Evergreens, and Other Nursery Stock

At Wholesale Prices Direct To The Planter

We have always grown more or less nursery stock on our Faribault Seed Farms, and have now such a large stock, especially **Apple Trees** and **Evergreens** that we are not only able to meet all competition but we will sell direct to our farmer friends at wholesale prices. We have this year over 500,000 home grown **Apple Trees**, nothing but the very best hardy Northwestern varieties that are bound to produce fruit in a short time. No. 1 trees at 6 to 17 1/2 cents each.

We have also the largest stock of **Evergreens** in the Northwest—grown in their natural home. As we produce them by the million, the cost of production is much less than that of any other grower; besides we have all our own moss and lumber for packing.

Our soil is of such a nature that it produces the best possible fibrous root system so that you won't have any trouble in getting our trees started.

You can get anything from us in the nursery line at 50% to 75% below the regular prices. We employ no agents, no tree peddlers, no commissions to pay.

Write for our **Special Wholesale Nursery Catalog**, and if interested in pedigreed varieties of Farm and Garden Seeds and Government tested Clover, Alfalfa and Grass Seeds, we will send you our **Large Illustrated Seed Catalog** also.

FARMER SEED & NURSERY CO., 336 8th Ave., Faribault, Minn.

THE TOWER SURFACE CULTIVATORS

Cultivate the Entire Surface Between Rows

Our right way spares every crop rootlet and nourishes it with plant food. The knives cut all the ground between the rows, just deep enough to prepare a dirt mulch and pass above the plant roots. Our system kills all the weeds, increases the yield of corn, sorghum, potatoes, etc.; hastens maturity and prevents "firing" of the corn in dry weather. Implements pay for themselves first season.

Send for free "Treatise on Corn Culture." It will convince you.

J. D. Tower & Sons, 40th Street, Mendota, Illinois.

CLOVER

THE ADAMS SEED COMPANY, Box 1, DECORAH, IOWA.

SEED CORN

"PURITY BRAND" is a guaranty of quality. Blue, Plump, Pure; the BEST that money can buy; carefully cleaned and TESTED AT AMES. There is very little clover in the country equal to our NORTHERN GROWN seed. Also TIMOTHY, ALSIKE, MIXED TIMOTHY and ALSIKE and other Field, Grass and Garden Seeds. Catalog Free.

Guaranteed first-class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. **J. B. Armstrong & Son, Shenandoah, Ia.**

Goldfield, Iowa, Feb. 11, 1910.
Gurney Seed & Nursery Co.,
Yankton, S. D.

Gentlemen:—I am pleased to be able to report that your Minnesota No. 13 yielded at the rate of 95 bu. per acre in my test rows last summer. I had considered the Minnesota No. 13 too small and early for us, but thought I would test it with four kernels per ear instead of three as we generally plant in this country. There was hardly a barren stalk in the field which made possible the high yield.

Your Gurney's Model dent is a good corn for northern Iowa and I think you are altogether too modest in your claims for it. I showed a sample of it at the National Corn Show and won a corn grader.

Yours respectfully,
Miller S. Nelson,
Pres. Iowa Grain Dealers' Association.

OUR 136-PAGE 1910 CATALOG FREE

Gurney Seed & Nursery Company
Box 10, YANKTON, SOUTH DAKOTA.

SWEDISH SELECT OATS

Pure, Recleaned Northern Seed. The great Oats of the Corn Belt. \$1.00 per bushel in twenty-five-bushel lots; \$1.25 per bushel in ten-bushel lots.

THE SUMMERS SEED HOUSE, Malvern, Ia.

THE EARLIEST TOMATO, 2c.

FOR 2c. we will send you a packet of Jack Rose, the earliest tomato. Yields large, smooth, solid fruits. We will also send you our catalog and coupon good for 5 packets of grand new seeds free. If you want the best seeds it is possible to grow send for **JUNG QUALITY SEEDS**. Send today for this great offer. Address, J. W. Jung Seed Co., Dept. 15, Randolph, Wis.

TESTED SEED CORN

WE have a large stock of seed corn, testing 95%, all standard varieties, at reasonable prices. For particulars, write us.

WALDRON SEED CO., WATERLOO, NEB.

HOME-GROWN Red Clover Seed

\$9.25 BUSHEL, delivered at your railroad station; sack free. Free from birch horn or obnoxious weed seed. Satisfaction guaranteed. Also a few bushels alsike.

J. W. RICHARDS, FERRIS, ILLINOIS.

ODERBRUCKER BARLEY

The High Protein
FIRST premium at Omaha in 1908; first, second, third and fourth in 1909. Without doubt the best barley in America. Get our circular, which tells you all about this good barley. We also grow Swedish Select Oats. Thompson Bros., R. 3, Wadena, Iowa.

JOE KRAMER THE CORN BREEDER OF ELKADER, IOWA,

OFFERS 60 10-ear sets 1908 Reid's; 25 sets new Reid's; 44 sets Snowflake White; 20 sets Silver King; 10 Champion sets 12 ears each. Corn all high class. First sets, \$3; second, \$3; ten Champion sets, \$10. Inspection welcomed.

CLOVER SEED

RAISED in best clover county in the state. Recleaned, state-inspected seed. Price, \$8.75 per bu.; sacks free; 10-bu. lots or more, \$8.50 per bu. Order at once if you want it. Address Lohman & Fletcher, West Point, Lee Co., Ia.

60 VARIETIES Strawberry Plants

Send for Catalog.

D. J. HENRY, LaPorte, Ind.

SEED OATS

I HAVE Early Champion Oats for seed; best for seeding grass with. Do not lodge or rust as late oats do on rich land. Also medium red clover seed; sample on request. G. Gregory, Ralston, Iowa.

The PLATTE VALLEY RED CEDARS

GROWN from seed, have no equal for wind-breaks; hardy and vigorous anywhere. Write for price list.
L. E. GARLAND, AFTON, IOWA.
Successor to Garland & Fowler.

GREAT BARGAINS White Pine and Arbor Vitae, 2 to 3 feet, \$10 per 100; a 1½ acre orchard for \$16. Send postal for catalog and other bargains. Address West Side Nursery, B 12, Postville, Iowa.

PRIZE-WINNING SEED CORN

PURE KHERSON OATS

and Field Seeds. Write for catalog and prices. AYE BROS., Second Street, BLAIR, NEB.

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelior. Send for my Free Illustrated Strawberry Book. THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.

When writing mention this paper.

a lot of small, imperfect clusters, and not half the fruit in the aggregate which you get from thoroughly pruned vines and large clusters. In trimming fruit trees aim at a spreading, open top. Sunlight must reach all parts of the bearing limbs to make good fruit. Every tree should have a main stem of four to six feet high. In common practice it is found necessary to remove half or two-thirds of the branches that start. Not that this should all be done in one season, but rather trim gradually, a little this year and a little more next year.

There are many pruning shears on the market, and the most of them are good for small limbs; but for big branches a small saw is the best implement.

Pruning is a matter which should be attended to regularly. It should begin when the tree or vine is small, and continue every year with the ideal in view. We often see a vineyard or orchard planted, and the planter never seems to think of pruning for several years, and then it is in such bad shape that it is hardly possible to restore it to proper condition. Such neglect is very expensive and is always regretted when the mischief is done.

SPRAYING AND THE MACHINES TO USE.

To the Editor of The Homestead:

In this, the age of spraying, it seems almost inexpedient to mention its necessity, but I am asked so often whether it really pays to spray that I address this open letter to all farmers and fruit growers answering that it certainly does. If your trees are affected with San Jose scale, Oyster Shell scale, or any of the scale diseases, you must spray if you would protect their health, for if you do not it will be only a matter of time until your orchard will be destroyed. Spraying with the lime sulphur solution is a positive cure for any of the scale diseases. There are also several ready-made solutions on the market that are equally good and much easier applied, which are probably better for those who have only a few trees. I have seen orchards that to the ordinary observer would appear to be ruined, which were saved by proper pruning and spraying; but don't let the scale get a start, as it is so easy to control and will do very little damage to the trees if you spray them as soon as the scale appears. Watch your trees closely and if there are any signs of scale send a twig that is affected to your state experiment station and they will tell you whether it is scale or not and also what to do. Spraying for scale must be done while the trees are dormant and they should be sprayed now and again before they bud out in the spring. After the foliage comes out, spraying with Bordeaux with a suitable insecticide is very valuable in increasing the crop and promoting a healthy growth of the trees and fruit.

Don't make the mistake of buying a cheap, low-pressure pump as an experiment, for if you do you will surely be disappointed in the results, as it is absolutely necessary to have a high-pressure machine to get the desired results. Buy a first-class, high-pressure sprayer in the start and you will find it the best investment you ever made in the line of farm equipment, as it will pay for itself a great many times, even on a small orchard the first year. The pump should also have thorough agitation to insure an even distribution of the solution, and the valves should be of brass, preferably brass balls, as they are always sure to seat properly and give better pressure and will last longer. Don't buy a pump with leather or rubber about the valves or plunger, as the strong spraying solution soon eats them out. For the ordinary farmer or fruit grower a good barrel sprayer costing from \$12 to \$15, or one of the hand combination potato and orchard sprayers would be the best to buy. It should be equipped with an extension rod, as a high-pressure machine will not throw the spray very high owing to the resistance of the air. Many people have a mistaken idea about high-pressure sprayers, as they think a high-pressure machine should throw the spray high up in the tree, but this is not the case, as they

Seed Corn that pays dividends

Grown from PEDIGREED Stock Seed by Expert Seed Corn Growers. Critically HAND-SELECTED, each individual ear being examined carefully, GRADED for edge dropping and Thoroughly TESTED so that we know that it will not only grow, but give satisfaction, if conditions are favorable. The per cents stated show what the various sorts have grown in our test. There is a great demand, and supply will soon be exhausted. ORDER QUICK IF YOU WANT IT, and should it not please you in every respect, send it back within ten days and we will return your money. Sample and descriptive catalog free.

	Matures	Our Test	Bu.	10 Bu.
Iowa Silver Mine.....	85 days	92 per cent	\$3.00	\$27.50
Farmer's Reliance.....	90 days	95 per cent	3.00	27.50
Legal Tender.....	110 days	92 per cent	2.75	25.00
Early Yellow Dent.....	95 days	94 per cent	2.50	22.50
Pride of the North.....	90 days	95 per cent	2.75	25.00
Star Learning.....	100 days	94 per cent	2.50	22.50
Iowa Yellow Dent.....	100 days	90 per cent	1.75	15.00
Profit.....	100 days	88 per cent	3.00	27.50
Iowa Gold Mine.....	95 days	94 per cent	3.00	27.50
Early White Flint.....	90 days	98 per cent	2.50	22.50
Early Yellow Flint.....	90 days	92 per cent	2.50	22.50

Prices include bags.

SPEAK QUICK IF YOU WANT IT.

IOWA SEED COMPANY, DES MOINES, IOWA.



requires no NUMBERING—no Bookkeeping—no ARTIFICIAL INCUBATOR LAMP methods, no PROFESSIONAL BOOSTING, borrowed or paid for, and resorts to no TRICKY TRADE TRAFFICS. Full information free. Address, A. G. WEANDER, Sioux City, Iowa

Ratekin's New Majestic SEED POTATOES

Earliest and best in the world, Early Ohio, Early Rose and Early Six Weeks, the standard of all best varieties. Also Carmon No. 3, Rural New Yorker No. 2, and other best sorts. All our seed is Red River grown and the finest stock to be found anywhere. Write for Big Illustrated Catalog of all farm, field, grass and garden seeds. It's FREE for the asking. Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

produce a vapor spray which is almost as light as the air and therefore cannot be thrown very high, making the use of a rod necessary. For the large orchards the two or four-wheeled traction sprayers are very desirable, as they have large capacity and require no hand pumping and have no engine to cause trouble. If you raise potatoes also, buy a combination potato and orchard sprayer, which will answer both purposes. Buy a good sprayer from some reliable manufacturer who is willing to protect you with a good guarantee and follow the instructions given you in this paper on fruit growing and potato raising as well as the bulletins that are issued by the experiment station in your state, and you will surely find that spraying will yield you a larger profit for the amount of labor and cost involved than any other operation on the farm.

Ohio.

E. H. Lamiell.

HOW TO GROW SWEET PEAS SUCCESSFULLY.

To the Editor of The Homestead:

As early in the spring as the frost is out of the ground so it can be worked, dig a trench about a foot deep, put some well-rotted manure in the bottom, then some earth, and on top of this sow the sweet pea seed quite thick. Then sow some more and cover about two inches. When the plants are well through the ground push some of the earth toward the roots and keep filling up until the trench is full. Keep quite wet all through the season and cut the flowers every day, as when they seed the vines die. They do best when planted north and south. The galvanized poultry netting is best for them to climb on. When the tendrils become long enough to put through the wire, begin to train them until they get started, when they will climb alone.

We had sweet peas planted along a trough where we watered the horses, with the poultry netting between the trough and the drinking fountain, and the water kept dripping over them. We had beautiful flowers all summer and there were a few in bloom at Thanksgiving time.

Subscriber.

CUTTING POTATOES FOR SEED.

To the Editor of The Homestead:

I noticed an article in your paper about potato secrets, by I. H. H. He does not seem to know whether cut-

LET ME ADD TWO A BRIGHT SPOT HUNDRED Gladiolus Bulblets

and 5 blooming size bulbs for 25c.

These are the finest mixture of Field's Giant Flowering Gladiolus. Mailed postpaid anywhere in the United States.

Or, 1000 bulblets and 25 bulbs for \$1.00

Full cultural directions with every lot. All the bulbs and some of the bulblets will bloom this year, all next year. Order at once before they are gone. They will grow and bloom anywhere, in any soil and for any one.

My catalog (mailed free) describes over 50 beautiful named varieties besides hundreds of other kinds of flowers and vegetables. Ask for it.

Henry Field Seed Co.

Henry Field, Pres.
Box 25 Shenandoah, Iowa.

TO YOUR GARDEN

Test Your Corn

Don't risk a crop failure by taking the word of some one else as to the reliability of your seed corn. Test your own corn—every ear of it—and know, before the planting is begun, that the seed you use will grow.

Geo. H. Lee, of Omaha, has perfected a corn tester that can be used anywhere any other corn tester is used, and besides, can be used in his incubator and the testing done at the same time a hatch of eggs is being conducted. It is made in the following sizes and prices: 200-ear, \$3.50; 500-ear, \$5.00.

Write for descriptive circulars. You'll save the cost of several testers in the knowledge gained from your first testing. Write today to—

GEO. H. LEE CO., OMAHA, NEB.

Hoyt's Evergreens

Grow 80 feet in ten years, 60 feet in 25 years. Cultivated "rooty" stock that has the growing habit. Our methods are correct, as shown by 40 years' success. Order direct from proprietors. Scotch Pine, 18 to 24 in. \$10 per 100, 2 to 3 ft., \$15. Norway Spruce, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25. White Pine, 18 to 24 in. \$15 per 100, 2 to 3 ft., \$25. Arborvitae, 12 to 18 in. \$10 per 100, 18 to 24 in. \$15.

Other sorts and sizes; also carload lots very cheap. Stock grown at Scotch Grove, Jones Co., Ia. Address Hoyt Bros., Office at Monticello, Ia.

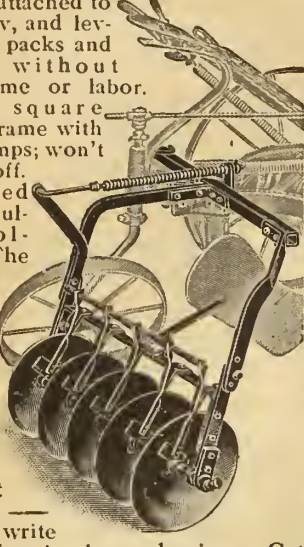
SEED CORN SOY BEANS

Reid's Yellow Dent, yield 111 bushels per acre; guaranteed to grow. Catalog free. DOBBINS BROS., Cedarville, Ohio.

When writing mention this paper.

THE CRISLER AUTOMATIC HARROW

Can be attached to any plow, and levels and packs and harrows without extra time or labor. Clamps square across frame with two clamps; won't come off. Endorsed by agricultural colleges. The only disk attachment on the market.



If not at your dealer's, write factory for circulars and prices. Cut your spring work down one week with one of these tools.
CRISLER HARROW CO., CEDAR RAPIDS, IA.

Band Men Earn Big Pay

Learn to Play an Instrument!
Organize a Band in Your Locality!

Good bands are in demand on all kinds of occasions and can command big pay. Expert band men are always needed and wanted in all cities and can earn splendid wages any time and anywhere. We sell the best instruments in the world—all kinds. We make special prices for equipping bands complete. Our instruments are used in every corner of the U. S.

Free With every instrument—a Fifty-Lesson Certificate which enables you to learn to play without a teacher. Write for our magnificently illustrated catalog No. 4.



J. W. JENKINS' SONS MUSIC CO.
1013-15 WALNUT ST., KANSAS CITY, MO.

OUR 1910 PLANTER

is better than ever after 18 years' **SUCCESS**
You can afford to buy



THE SCHOFIELD POTATO PLANTER
Thousands of satisfied customers. Sold from factory to farmer at special prices. Satisfaction guaranteed. Write today for catalog H

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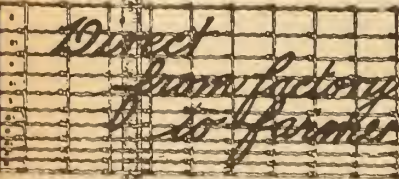


NEW KIND **OLD KIND**

Save the Corn Roots

BROTHER Farmer, if you'll let me, I will help you make money by using my surface and deep cultivator shovel. Will fit any round shank, cut all weeds, scour in any ground, save the corn roots and handle easy for boys and horses. Send for circular.

Chas. Burmeister, Sutherland, Ia.



Buy fence direct. We will give you as good a fence as a dealer for less money, or a better fence for the same money. Ask us and see. Buy a Square Mesh Fence. It will stretch over any kind of ground. Other kinds won't. Fences 20 in. up to 55 in. 12-in. and 6-inch stays. 30 days' free trial. Write for printed matter and price list. **THE CENTRAL INDIANA FENCE & WIRE CO., Kokomo, Indiana.**

ting them or planting them whole is the best way. That is one of the secrets I do know about. Anyone can try it for himself and prove it. Cut large ones in as many pieces as you can find an eye for, never more than two eyes to one piece, and watch the result. Don't worry if you do not see a great many stalks coming up; that is what you ought not to see in growing potatoes. The fewer stalks the better potatoes you will have, and fewer small ones. It is not a crop of small ones we are after. We did try them every way, but rarely planted whole ones after trying this plan. Fresh manure will result in scabby potatoes, especially when it is applied in the spring. Manure should be applied in the fall and plowed under. Never use the seed end of a potato. Another thing, if you can cut a few days ahead and let them dry instead of planting when freshly cut, they will not rot as they do sometimes during a wet spring. It is better to spread them out so they will not spoil and let them dry a few days. It makes no difference what kind of soil you have; try this plan a couple of years and you will never need to try any other, no matter whether it's drills or hills. E. K.

RASPBERRY TROUBLES.

A subscriber writes that his raspberries yielded very poorly last season. The bloom was good, but more than half perfected no fruit. He would like to know the cause and the remedy. From inquiry and observation we have learned that this trouble was very common last season, and it touched not only the raspberry, but the strawberry fields also. There was much local discussion of the phenomena at the time and many opinions were advanced as to the cause. The failure was such as often follows heavy rains during the blooming time, when the pollen is washed off before the germ is fertilized. While, as a rule, that is a sufficient explanation, we are satisfied from all the evidence that some other cause contributed to last year's failure.

Sometimes various fruits, grains, or even vegetables fail, and for lack of a better name we say "They blighted." It would take a careful biologist to decide just what form of fungous trouble prevailed, through favorable weather conditions. But it seems evident that something of this nature helped toward the partial failure of small fruits in 1909.

We do not know of any remedy, or of any way of avoiding such occasional disappointment. But as they have been rare in the past there is good reason to think that they will be rare in the future. It is probable that this year will bring normal weather conditions and better crops.

Clerks in our local stores are getting from \$30 to \$50 per month and must pay from \$4 to \$5 per week for their board. After paying for their clothes, laundry work and a few incidentals the balance may be laid aside for a rainy day. What those who have families to support on these wages is pretty hard to guess, but no doubt it looks like rain most of the time.

SEEDSMEN AND THEIR CATALOGS

Mackey Strawberries.
Mr. Chas. J. Mackey, of West Liberty, Iowa, has an advertisement of strawberry, raspberry and blackberry plants in this issue. In the strawberry plant line he has the Warfield, Senator Dunlap, Brandywine, Parsons Beauty, Lovett's Early and Darman, all of which do especially well in Iowa. Mr. Mackey is making a low price for plants sold before April 15th—fifty cents for 100, \$1 for 300, \$2.50 for 1,000. His circular is free for the asking. He also breeds Single Comb White Leghorns. See advertisement on this page.

Importance of Grading Seed Corn.
Every farmer realizes, without being told, how highly important it is that an even stand of corn be obtained. It is impossible to secure such a stand unless the seed corn be carefully graded, as no planter made can plant the required number of seeds in each hill if the seed is of varying sizes. A cheap and yet an efficient grader is that made and sold by the W. E. Ashby Telephone Cut Out Company and advertised on page 5 of this paper. It is called the Perfection seed corn grader. It is made in single and double grader sizes. The single grader gets three grades of corn, while the double grader gets four. It has a capacity of one bushel in four minutes or ten bushels per hour. It is sent prepaid to any ad-

dress at \$1.20 for the single grader and \$1.85 for the double grader. If other information be required write for circulars to the W. E. Ashby Telephone Cut Out Company, 499 Phillips Block, Des Moines, Iowa.

P. N. Kramer's Seed Corn Sets.

Mr. Joe Kramer, of Elkader, Iowa, has made for himself an enviable name as a seed corn breeder. He has inaugurated a plan by which farmers can get a start in the very best seed corn of several varieties that can be obtained anywhere. In his advertisement on page 23 he is offering sets of Reid's Yellow Dent, Snowflake White, Silver King and Champion. Considering the high price which even scrub corn is bringing, Mr. Kramer's prices are exceedingly reasonable.

The J. W. Jung Seed Company.

We would like to call special attention to the advertisement of the J. W. Jung Seed Company, of Randolph, Wis. Mr. Jung is making a special offer at this time, in which he proposes to send eight packets of seeds free to everyone who sends ten cents for a package of his Prize Taker tomato which is one of the best tree tomatoes grown. Mr. Jung is a seedsman from the ground up and his name has become familiar to thousands of readers of this paper because he has been a faithful contributor on horticultural and garden topics. He has prepared a nicely-illustrated catalog and this will be sent free on application to the J. W. Jung Seed Company, Randolph, Wis. Please mention this paper when you write. See page 23.

O. S. Jones Seed Company Building, Sioux Falls, S. D.

This is a day of specialists and naturally to succeed in the greatest degree every man or firm must know and understand his business thoroughly. The above cut is an exact likeness of the O. S. Jones Seed Co.'s new building, Sioux Falls, S. D. It is doubtful if there is a better constructed or a more modern seed building in the country. Dimensions are 44x150 feet, three stories high, of reinforced concrete con-



struction, strictly fireproof and costing \$50,000. Twelve bins are being built inside, with a capacity of 30,000 bushels, also of concrete construction, making it rat and mice proof, as

well as fireproof. These bins will be filled with different kinds of grain and grass seeds. The plant will be equipped with modern cleaning machinery, and grain, seeds and grasses will be free from dirt and foul seeds. Mr. O. S. Jones, president and general manager of the company, is a specialist in the seed business. He got his knowledge from down-to-earth experience. For sixteen years he conducted the Lakeview seed farm near Madison, S. D. Mr. Jones has made a reputation in the seed business by originating several varieties of vegetable seeds. The Dakota Farmer tomato is, no doubt, one of the most successful. Every farmer knows that to become an expert in judging seeds that a man must have actual experience in growing and cultivating the many varieties of grains, vegetables and grasses before he is competent to judge the germinating possibilities of seeds. That is just the kind of experience Mr. Jones has had and he has been unusually successful because he has behind him the "know how" experience that is sure to be recognized by farmers and gardeners. Mr. Heston, of the South Dakota State Normal School, has the following to say about the Jones Seed Company: "O. S. Jones Seed Company, Sioux Falls, S. D. Gentlemen:—Our school garden was a great success last summer. We bought all our seeds from you and everything planted grew with surprising success. The garden was one of the most attractive features of the school and it was chiefly due to the excellent quality of the seeds you sold us. We never before had such general success. Respectfully, J. W. Heston." The O. S. Jones Seed Company are exclusive distributors of the famous Wimple's Improved yellow dent corn. Interested readers should write for catalog which explains fully the prizes offered for the largest yield per acre of Wimple's Improved yellow dent corn. You should send for this firm's catalog today. It is full of good information and is free for the asking. Please mention this paper.

SEED POTATOES

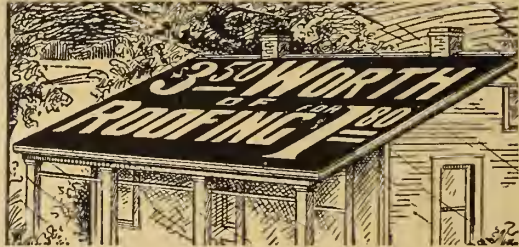
NORTHERN GROWN

Why take a chance on your potato crop by planting common or home-grown seed? Plant Berry's RED RIVER, WHITE PEACHBLOW or EARLY OHIO. They grow big and a sure crop. We are making special low prices. You cannot afford to plant common stock. The difference in the cost is only a trifle compared with the great profit by planting our seed.

If you want to make big money on your potato crop, write for our 100-page illustrated seed book. Valuable pointers and new potato growing secrets. Worth thousands of dollars to all who write us. Send today.

A. A. BERRY SEED CO., Box 703, CLARINDA, IA.

STRAWBERRY PLANTS, 50c. per 100; \$2.50 per 1,000. Blackberries, Raspberries. Circular free. C. J. Mackey, West Liberty, Iowa.



READ THESE ROOFING BARGAINS

and Remember That We Sell
Only the Most Dependable
Grades of ROOFING

Dealers' Prices		Our Prices
\$1.00	Rolls of Two-Ply Tarred Felt Roofing, containing 108 square feet	\$0.54
1.50	Rolls of Asphalt Felt Composition Sanded or Rubber Roofing - -	.89
2.00	Rolls of the highest grade of wool felt asphalt Best-ov-al Rubber Roofing	1.25
2.75	Rolls of the highest grade of wool felt asphalt Best-ov-al Rubber Roofing	1.50
3.50	Rolls of the highest grade of wool felt asphalt Best-ov-al Rubber Roofing	1.80

Send for These Free Samples and This Free Roofing Catalog

It quotes the very lowest prices on every kind of roofing, showing also a full line of steel roofing, painted or galvanized finish, at prices 25 per cent below market quotations. Every roofing sample is marked with the number and price, making it easy for you to compare values with what you can obtain locally. Our Roofing Catalog tells exactly why we give you better roofing for your money than you can obtain elsewhere.

Write your name and address plainly in the coupon below and as soon as we receive it we will send you by return mail our free Roofing Catalog and our complete line of roofing samples.



Sears, Roebuck and Co.
Chicago, Ill.

Roofing— Iowa Homestead

Name _____

Postoffice _____

R. F. D. No. _____

State _____

P. O. Box No. _____

Street and No. _____

Sears, Roebuck and Co., Chicago

CUT OUT COUPON AND MAIL TO US.

One Gallon of Oil For a Hatch

X-RAY INCUBATOR

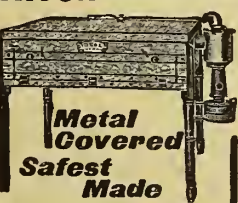
Thermometer always in sight. Eggs need not be removed during entire hatch. Other incubators require frequent filling and consume three times as much oil as the X-Ray. We absolutely guarantee to hatch 100 chicks with one gallon of oil. The X-Ray controls the flame—burns high or low; generates just enough heat to maintain hatching temperature. Absolutely no waste. Others always use a strong flame and allow the surplus heat to escape.

The X-Ray Heats to Hatching Temperature in 15 Minutes
Others require 6 or 7 hours. Ventilation complete. Simply raise the lid—all hatching fumes rise instantly. The only really different incubator. Enamel-steel-covered; rosewood finish. Glass doors on top; lamp in center; flame control. Write now for free book and know the greatest of all incubators. Address

X-RAY INCUBATOR CO., 18th St., Wayne, Neb.

\$7.50 FREIGHT PREPAID FOR 120-EGG INCUBATOR Output limited at this price. Write at once. Other sizes priced very low.

Ideals always hatch quick from St. Paul, Buffalo, Kansas City or Racine. We ship quick from St. Paul, Buffalo, Kansas City or Racine. Write for delivered price beyond—Big Free Book; best guide to success and economy. J. W. MILLER CO., Box 305 Freeport, Ill.



\$7.55 Buys Best 140-Egg Incubator
Double case all over; best copper tank; nursery self-regulator. Best 140-chick brooder, \$4.50. Both ordered together \$11.50. Freight Prepaid. No machines at a ny price are better. Write for book today or send price and save waiting. Satisfaction guaranteed.

BELLE CITY INCUBATOR CO., Box 52 Racine, Wis.

90% Hatches

from the Cyphers—in every country and climate—for old-timers and beginners. For you. **CYPHERS INCUBATORS** and Brooders are non-moisture, self-regulating, self-ventilating. Write for 160-page Catalog. Address: Newark City. Cyphers Incubator Co., Department 42 Buffalo, N.Y.; New York City; Chicago, Ill.; Boston, Mass.; Kansas City, Mo.; Oakland, Cal.

On My Plan or Yours?
Tell me you will try, on my plan, a "QUEEN" or say what other plan you prefer. We'll fix it up. Best incubator, low price; I pay freight. Three months' trial. Five years' legal guarantee. NOW send for catalogue. Wickstrum, Queen Incubator Man, Box 10, Lincoln, Neb.

Send Us a Postal for a Price
Just your name and address on a postal brings special low prices on all sizes of **RACINE** Incubators and Brooders—guaranteed to hatch highest percentage of eggs. Liberal Trial Plan. Best Incubator. Proposition on the market. Postal brings all printed matter and special prices at once. Address **RACINE HATCHER COMPANY** Box 135, Racine, Wis.

LATEST BOOK "Profitable Poultry." Best published. Describes most successful Poultry Farm. 45 Varieties pure-bred poultry, beautiful, hardy and money makers; thousands to choose from. Lowest Price on fowls, eggs, incubators, etc. Sent for 4 cents. Berry's Poultry Farm, Box 112 Clarinda, Iowa

50 Best Paying Varieties Pure-Bred Chickens, Ducks, Geese, Turkeys, Eggs, Dogs and Incubators. All at low prices. Send 4c for my Book which gives reliable information worth many dollars to you. W. A. WEBER, Box 906 Mankato, Minn.

43 Leading Varieties of pure bred Chickens, Ducks, Geese, Turkeys; also Holstein cattle. Prize winning stock. Oldest and largest poultry farm in the northwest. Stock, eggs and incubators at low prices. Send 4 cents for catalog. LARKIN & HERZBERG, Box 13 Mankato, Minn.

125-EGG WISCONSIN INCUBATOR \$10 AND BROODER--BOTH FOR
If ordered together we send both machines for \$10.00—freight paid east of Rockies. Hot water, double walls, dead air space between. Best Nursery underneath egg-tray. Both incubator and brooder shipped complete, with thermometer, lamps, egg-testers—all ready to use when you receive them. Incubators finished in natural wood showing exactly the high grade lumber we use. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money. It pays to investigate the "Wisconsin" before you buy. Read the letters below—they are actual proof from users, showing the success they are having with our machines. This is the most convincing evidence you could get. Send for the free catalog today or send in your order and save time. Ask the publisher of Farm Journal or The Commercial and Savings Bank of Racine, Wis., about our responsibility. **Thos. J. Collier, Mgr., WISCONSIN INCUBATOR CO. Box 105, Racine, Wisconsin**

Wis. Inc. Co. Tolley, N. D. Deer Sire:—We received the incubator and brooder in good shape, and to our surprise, not having any experience with incubators, the first hatch was 94%, the second was 96% and the third, 98%. We did not know anything about operating the machine, but old, experienced poultry men say that is a grand record. J. F. BELTZ, Prop. Ideal Farm.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

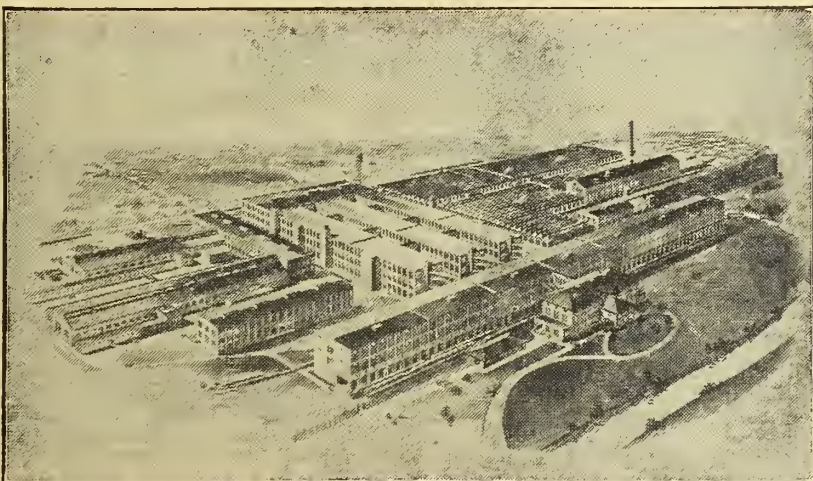
CHOLERA IN CHICKENS.

To the Editor of The Homestead:

A subscriber of Clay county, Neb., sends the following communication:

I am a new hand at chicken raising, last year being my first attempt. My fowls are dying quite fast at present, and I cannot succeed in building them up or stopping the disease. I cannot understand what is the trouble. Eleven died from ten o'clock Saturday a. m. to the same time Sunday. They were apparently all right when I saw them Saturday and I had no idea that any of them were sick. I have a good house with south windows to let in sunshine. It is nice and clean and I keep it sprayed with disinfectant. The droppings do not look healthy; they are watery and some look thin and milky. I have given nux vomica in the drinking water, a teaspoonful to a gallon, and this seems to help, but does not stop them dying. I am at present feeding condition powders in boiled oats. I have fed corn, wheat and oats with

grassy state as nearly as possible by scalding, either by itself or in the soft feed. The main thing in all such perplexities should be to first study out what has caused it. There is always a cause and an effect. We have before us the effect; the next thing is to study out the cause, and I will first ask our correspondent a few questions. Did she feed that grain in such a way that her fowls had to work for every particle they got? Was she careful at all times not to overfeed so that they were still ready and willing to work for more by vigorously scratching for it? Did she furnish a full supply of good, hard, sharp grit (their teeth)? If these things are neglected and not seen to daily they are sure, sooner or later, to produce indigestion, which is the first symptom of cholera developed at home. It



THE FOOT-LIFT FARM MACHINERY.

Nearly three score years ago at Rockford, Ill., a small factory was established for the purpose of making farm machinery. It progressed and became known as the Emerson Manufacturing Company; its energies were devoted to the manufacture of the original foot-lift plow, the wide-cut mowers, planters, harrows, cultivators and other machines of daily use on the farm. The high-class excellence of the machinery met with such a lively demand that there was a continuous need for increased facilities and more rapid means of manufacture. The illustration shows the present plant of the company now known as the Emerson-Brantingham Company. As a single instance of the value of their goods it is stated that by the use of a double-gang foot-lift plow one man and seven horses can save \$40 each year in plowing 100 acres. Additional facts of like character concerning the other machinery sent forward by the firm may be learned from the circulars of the company which will be sent free on application to the Emerson-Brantingham Company, Rockford, Ill.

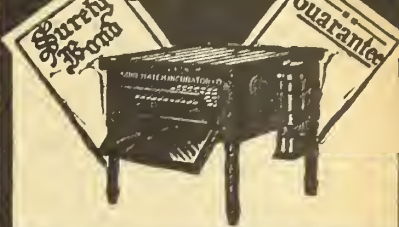
oyster shell, alfalfa and milk. I should like to have your advice.

From the brief description given regarding feed, care, etc., my first thought would be that this is a case of real cholera. I am not certain of this, but at the rate they die the conclusion seems to force itself upon me, in face of the fact that I have always claimed that but few cases of real cholera exist. On account of the progress at first being very slow, I am led to suspect that it originated right at home by heavy feeding of corn, not promoting exercise, and last, but by all means of the greatest importance, that a sufficient supply of grit was not furnished them. If it is really true cholera I should suspect that this latter neglect was the prime factor in producing it. Still, this difficulty could be produced by continuous overfeeding on a grain diet, although the alfalfa should have corrected some of that evil. Our correspondent, however, does not say how she used the alfalfa. It ought to be restored to its

may be that the too liberal use of disinfectants with poor ventilation is also adding to these troubles.

The strong fumes from many disinfectants are very injurious, especially where they are used toward night and the house closed up so that the fowls are obliged to remain there for several hours. Judgment is a prime factor in such cases, in fact, it is the whole thing. I cannot say with any certainty just what the trouble is in this case, but will give a remedy. A remedy, however, will do no good unless the cause is removed. In this case the houses were kept clean and, in fact, everything in the letter would indicate that the fowls were given proper care, and if care was exercised as to the manner of feeding the ration, no bad results should follow. However, if she was too liberal with milk and did not supply water to drink besides, it may be that this is the prime factor. Milk is splendid for poultry if used in the right way. Some think it will take the place

Buy the Sure Hatch Bonded



INCUBATOR

It is best to buy this Bonded Incubator because you are absolutely certain to be satisfied with it and with the results it produces.

Sure Hatch Incubators

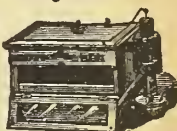
are sold on 60 days' Free trial. They are fully guaranteed and the guarantee is not only backed by the total resources of the Sure Hatch Incubator Company, but also by the Bankers' Surety Company of Cleveland, Ohio, with \$1,000,000 capital and surplus. This Company issues a Guaranty Bond on every Sure Hatch Incubator, insuring the owner that we will live up to our liberal guarantee and this bond is actually sent to every purchaser of a Sure Hatch Incubator.

Order a Sure Hatch to-day. We pay the freight. Ask for our Free book.

Sure Hatch Incubator Co. Box 16 Fremont, Neb.

Hatch Chickens By Steam

Make the hatching of your 1910 chicks sure and easy. Stahl's Excelsior or Wooden Hen Incubators are not experiments. They are so sure that a fertile egg means a live, healthy chick. You get real incubator value in either machine. Equip early, and grow and market your early-hatched broilers when prices are high. Early money is the biggest. Write to-day for free catalogue.



The incubators that never disappoint.

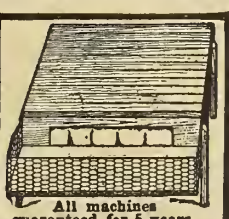
GEO. H. STAHL, Box 7 V Quincy, Ill.

SHOEMAKER'S BOOK on POULTRY

and Almanac for 1910 has 224 pages with many colored plates of fowls true to life. It tells all about chickens, their prices, their care, diseases and remedies. All about incubators, their prices and their operation. All about poultry houses and how to build them. It's an encyclopedia of chicken-dom. You need it. Only 15c. C. C. SHOEMAKER, Box 679, Freeport, Ill.

of water. Never. Good, pure water should always be supplied, the milk being used as food. Let them drink it in their soft feed and, if you still have a quantity, just warm it up slowly until the whey separates; then pour all into a muslin sack and let the whey drain off slightly and you have a splendid animal food ration that the most expert would envy you.

It may have been that there was some kind of poison where the fowls could get it. The reader will see in such a case as this that there is a great deal for the attendant to satisfy himself of first. If I could go immediately on the ground I would soon locate the cause and prevention. If any of the above mentioned natural laws have been disobeyed, they should be remedied at once before applying a cure. For a cure I would say that all nux vomica and poultry powders should be laid aside, the sick should be separated from the well, and in their drinking water the sick ones should be given one ounce sulpho-carbolate of zinc to two quarts of drinking water, giving no other water to drink for several days, or until a recovery is assured. For those not yet affected use the Douglas mixture in their drinking water daily until all difficulty has disappeared and feed sparingly on cooked food that has been slightly seasoned with red pop-



All machines guaranteed for 5 years.

Wis. Inc. Co. Evansville, Wis. Deer Sire:—We are well pleased with the incubator which we bought of you. We obtained good results with it. From 455 fertile eggs we got 416 chicks. I think it was a good hatch. I do not think any incubator can beat that. The Wisconsin is O. K. JOHN DOUGLASS.

Wis. Inc. Co. Lockport, Ill. Gentlemen:—I had good success with your incubator. I got 93 chicks from 97 eggs and 97 chicks from 103 eggs. I think the Wisconsin is a fine machine. There may be others as good, but I don't think there is any better. I have neighbors who will send for one this winter. They are so well pleased with mine. HECTOR DENNISON.

per. But above all things see to it that the fowls have a supply of sharp, hard grit. It is one of the essentials for both winter and summer and should not be neglected. Furthermore, always try to feed as much of a variety as possible and at no time should they be overtaken so that they get into a sluggish condition.

C. E. Matteson.

Waukesha county, Wis.

POINTERS.

—White Wyandotte eggs of the Dustin strain are offered for sale by Mrs. F. O. Elliot, of Kent, Iowa, in her advertisement on page 27.

—Mr. W. J. David, of New Hampton, Iowa, is quoting prices on Mammoth Bronze turkeys and Barred Plymouth Rock eggs in his advertisement that appears on page 27.

—Mr. Clarence Martin, of Clarksville, Iowa, is offering eggs from Martin's Snow-white Plymouth Rocks at very moderate prices in his advertisement that appears on page 27.

—Eva B. Tutt, of Alta, Iowa, is offering Rose Comb Brown Leghorn eggs for sale and a few fine cockerels from high-scoring stock in her advertisement that appears on this page.

—Mr. Geo. Hettich, of Bowling Green, Mo., is quoting prices on Rose Comb Rhode Island Red eggs from stock scoring 91 to 93½ points, in his advertisement that appears on page 27.

—Eggs from Buff Orpingtons, that are pronounced by him to be the greatest winter layers in the world, can be secured from Mr. Prewitt, of Onawa, Iowa, as per his advertisement on this page.

—For Silver Laced Wyandotte eggs read the advertisement of Dr. D. C. Garner, of Mingo, Iowa, that appears on page 27. Dr. Garner also has a few good Silver Laced Wyandotte cockerels for sale.

—Nellie Cahow, of Greenfield, Iowa, breeds Single Comb Brown Leghorns exclusively. The flock from which she is offering eggs, in her advertisement on this page, consists of thirty well-selected birds that have farm range.

—Readers of The Homestead are requested by Mr. Geo. F. Blake, of Maquoketa, Iowa, in his advertisement that appears on page 27 to write him for prices on Barred Plymouth Rock eggs from Blake's improved egg laying strain.

—Look up the advertisement of Mrs. J. W. Kiesling, of Creston, Iowa, appearing on page 27 of The Homestead. Mrs. Kiesling is offering eggs from a fine laying strain of pure-bred White Wyandottes at very low figures. In writing please mention The Homestead.

—Mrs. O. A. Mace, of Bedford, Iowa, has a fine flock of good quality Buff Orpingtons; some scored by Judge A. B. Shaner and some by Judge T. W. Southard. She is developing a strain of large birds with good laying qualities. See her advertisement on this page.

—Mr. Chas. D. McCaskey, of Ogden, Iowa, writes that he has a nice flock of Barred Plymouth Rock cockerels left for sale. They are large, heavy-boned, with extra good barring, scoring as high as 91 points. They have fine eyes and yellow legs and beaks and will be sold at bargain prices if taken soon. See Mr. McCaskey's advertisement on page 27.

—Mr. A. L. Anderson, breeder of White, Buff, Golden and Silver Laced Wyandottes, Indianola, Iowa, in remitting for advertising already done, writes: "I find The Homestead is as good as the best in making sales of poultry. I am better prepared than I have ever been before to furnish eggs for hatching. Mr. Anderson's advertisement appears on page 27.

—Mrs. P. L. Carroll, of Hampton, Iowa, whose new advertisement, offering Barred Plymouth Rock eggs for sale, appears on page 27, writes: "My utility flock consists of large, well-barred hens and pullets, mated with yearling cocks. My pens are line bred and very choice. Pullet mating pen Latham strain, and cockerel mating pen Bradley Brothers strain. Kindly book your orders early."

—Mr. W. W. Forbes, of Jefferson, Iowa, is offering eggs from high-scoring Rose Comb Rhode Island Reds in his advertisement that appears on page 27 of The Homestead. He also has a few cockerels left. They have had the range of the farm and Mr. Forbes states that his birds are better than ever. He solicits immediate orders or orders for future shipment. Write him for circular.

—Mr. P. J. Cooney, of New Hampton, Iowa, in furnishing copy for his egg advertisement found on page 27, writes: "Our stock of Barred Plymouth Rocks are utility bred, and of the Bradley, Thompson and other good strains. They are good winter layers. We have been breeding them for years. Our Mammoth Bronze turkeys are very good and have won prizes wherever shown. Our flock is headed by a tom scoring 97½ points. Some of the hens score 97."

—In sending copy for her advertisement found on page 27 of The Homestead, Mrs. S. M. Thompson, of Birmingham, Iowa, writes: "The Barred Rocks are justly named, 'The world's best general purpose fowl,' and some of the best that pays. This saying is no other breed better than the Barred Plymouth Rock. I keep the best. My stock is high and lay. If you are in

the market for stock or eggs I am sure that I can give you your money's worth."

—If you wish Black Langshan eggs see the advertisement of Mr. J. H. Rayl, of Afton, Iowa, on page 27.

—Light Brahma eggs are advertised for sale by that old reliable breeder, Mr. Frank P. Healy, of Bedford, Iowa, on page 27.

—Mrs. James Cockerton, of Whiting, Iowa, advertises choice Barred Rock hens and some excellent Toulouse geese for sale on page 27.

—Mrs. C. A. Robinson, of Griswold, Iowa, is quoting prices on White Wyandotte eggs from large, vigorous, blocky birds in her advertisement that appears on page 27 of The Homestead.

—Mr. J. H. Cray, of Weldon, Iowa, is quoting prices on Barred Plymouth Rock eggs per sitting and in incubator lots in his advertisement on page 27 of The Homestead. Write him for his free egg circular.

—Eggs for hatching can be supplied by Mrs. J. E. Baxter, of Walnut Grove, Minn., from Buff Cochins and Barred Plymouth Rock chickens, White Holland turkeys and Pekin ducks. Her advertisement appears on page 27.

—Mr. M. W. Crout, of 2248 Des Moines Street, Des Moines, Iowa, can supply Homestead readers with Single Comb White Orpington eggs from stock bred to lay at prices named in the advertisement found on this page.

—In his advertisement on page 27 of The Homestead Mr. O. H. Stillson, of Corwith, Iowa, is offering eggs from Black Langshans which he has been breeding exclusively for the past sixteen years. He guarantees satisfaction.

—Homestead readers should read the advertisement, on this page, of Mrs. John Roskamp, of Kanawha, Iowa, in which she is offering Rose Comb Brown Leghorn eggs at the low rate of seventy-five cents per fifteen or \$3.50 per hundred.

—Mr. Joseph Kappes, Jr., of Ashton, Iowa, in furnishing copy for his Rose Comb White Leghorn and Black Langshan advertisement offering eggs for sale on page 27 of The Homestead, states that his birds are all sold and that he could have sold a great many more if he had had them.

—Mr. H. C. Newbury, of Bristow, Iowa, is quoting prices on Single Comb Rhode Island Red and Single Comb Buff Orpington eggs in his advertisement appearing on page 27 of The Homestead. He can also furnish Homestead readers with Indian Runner duck eggs at very moderate prices.

—Mrs. Melvin Baird, of Red Oak, Iowa, writes that she has a fine flock of White Plymouth Rocks from which she can furnish eggs, as per advertisement on page 27. She writes that in the nine years she has been breeding White Plymouth Rocks she has never had the roup or cholera in her flock. She feels that she can please customers.

—Any reader of The Homestead who wishes to buy White Wyandotte eggs or is anxious to secure breeding stock of that breed will be interested in the advertisement of Mr. S. Harr, of Riverside, Iowa, which appears on page 27 of The Homestead. Mr. Harr is quoting very reasonable prices on his eggs and has two fine pens of nine birds, each mated for the best results, which he is anxious to dispose of to Homestead readers.

—Mrs. C. A. Robinson, of Griswold, Iowa, in furnishing copy for advertisement which appears on page 27, states that the eggs which she is offering for sale are from an extra good flock of farm range hens, of good shape, large-boned, blocky birds, mated to extra good Duston and White Quill males, of fine shape and very white plumage. Eggs are proving very fertile and she is quoting them at very reasonable prices, considering quality. She will be pleased to hear from readers of The Homestead.

—The advertisement of Mr. Geo. W. Livingston, of Monroe, Iowa, offering White Wyandotte eggs for sale, will be found on page 27 of The Homestead. In furnishing copy Mr. Livingston writes: "We certainly have the finest lot of birds we have ever sold eggs from. Cockerels and cocks in pens and flocks score from 93 to 93½ by Russell. We have hatched our birds for years from our best winter layers and have a laying strain of White Wyandottes second to none. Our prize winners the past season are in our yards. The birds are in the very best of condition and the eggs are running \$5 per cent fertile. We guarantee satisfaction."

—Mr. W. I. Mouser, breeder of Single Comb Rhode Island Reds, of Red Oak, Iowa, in furnishing copy for his advertisement found on page 27 of The Homestead, writes: "I will have three pens of Single Comb Rhode Island Reds for eggs this year. They are fine in shape, long bodied, and good colors. Last year I bought a fine pen of a Michigan fancier. The hens were sisters of females in the first-prize pen at Chicago in 1908, cockerel heading pen son of fourth cock at Chicago in 1908. Will use these hens this year again, also the pullets from this mating. Many score 93 to 94 points. I sold a few in January to a man at De Witt, Neb., who soon after exhibited three at a poultry show and took three first premiums. I have also male and female descendants of Red Cloud, the great undefeated champion; also a grand pen bought direct from Hanson, the hens weighing seven pounds, cockerel eight and one-half pounds. Will have some birds from Tompkins which

will be here in a few days. Have used our best judgment in mating our pens and expect some good results."

—Barred Plymouth Rock eggs at \$1 for thirteen or six sittings for \$5 are offered for sale by Mr. J. C. Hardman, of Brayton, Iowa, on page 27.

—Mr. Geo. Taylor, of Barnes City, Iowa, guarantees a good hatch from the Brahma eggs, prices for which are named in the advertisement on this page.

—Barred Plymouth Rock eggs from large-boned, good barring, farm-range birds are offered for sale by Mrs. I. S. Battles, of Mitchellville, Iowa, in her advertisement on page 27.

—Quotations on Single and Rose Comb Brown Leghorn and Silver Laced Wyandotte eggs are given in the advertisement of Mrs. Will Michael, of Selma, Iowa, that appears on page 27.

—Mr. Geo. H. Burge, of Mt. Vernon, Iowa, has an unusually nice flock of Silver Laced Wyandottes. The hens are healthy, vigorous, well marked and great layers from which he is quoting prices for eggs in his advertisement appearing on page 27.

—Mrs. Eva Girard, of Schleswig, Iowa, R. F. D. No. 2, has twenty-five Barred Plymouth Rock unscoured hens and twenty-five large, well-marked, vigorous cockerels which she is offering for sale at prices named in her advertisement that appears on page 27.

—Mrs. W. S. Kern, of Iowa City, Iowa, writes that she still has a number of Barred Plymouth Rock cockerels for sale. They are well marked and of good weight. She also has some fine hens and pullets of a good laying strain and would be pleased to hear from parties in search of such.

—Mrs. C. W. Bryant, of Orchard, Iowa, breeder of White Wyandotte chickens, who is offering eggs for sale in her advertisement on page 27, writes: "I have some good, healthy, vigorous stock, snow-white birds, and they are excellent layers. We got more eggs this winter than all our neighbors put together."

—"The Barred Plymouth Rock cockerels we are offering for sale," writes Mr. Frank Santee, of What Cheer, Iowa, "are from cockerel and pullet mated pens strong in Bradley and Latham blood. They are large, heavy-boned birds, with fine carriage and markings, the best we have ever raised and will be priced right."

—Eggs from several varieties of popular fowls are offered for sale by Mr. P. F. Smith, of Montezuma, Iowa, in his advertisement on page 27. He writes: "We have the best lot of poultry in our breeding pens this year we have ever yarded. We have been working for size and egg production for several years and have been successful in making wonderful improvements."

—Buff Wyandotte eggs from finely-shaped and solid Buff colored birds scoring 92 to 94½ are offered for sale in the advertisement of Mr. E. K. Morris, of Montezuma, Iowa, which appears on page 27 of The Homestead. The hens in Mr. Morris' flock are prize winners, of good size, and are good layers. They are mated to a large, well-shaped cock, with good comb and eyes and buff to the skin.

—Mr. M. V. Leeper, breeder of Barred Plymouth Rocks and Mammoth Bronze turkeys, of Redfield, Iowa, whose advertisement appears on page 27, in furnishing copy for same, writes: "The cockerels I am offering are some of my best birds and would easily be worth \$5 had they been scored. My flock of turkeys is headed by a thirty-pound young tom with the largest bone I ever saw. Hens in this flock weigh as high as twenty-five pounds. My flock of Barred Rock hens are fine; anyone getting eggs from my yards will surely be pleased with results."

—Messrs. C. C. Drake & Son place an advertisement in the Barred Plymouth Rock department of this paper which cannot fail to be of interest to those who want to buy eggs for hatching. In the letter accompanying their order to change the advertisement the Messrs. Drake say: "It is not necessary for us to state what our birds have done or will do, neither is it necessary for us to turn on the valve in the hot-air pipe nor to use enough gas to inflate a balloon to make the facts plain. We do wish to state that we have carefully line bred our birds for ten years and that the ancestors of our foundation stock have been line bred for more than twice that length of time, so our birds certainly ought to reproduce. They are thrifty, in healthy condition and turning out strong fertility in the eggs." For other information write to Messrs. C. C. Drake & Son, La Harpe, Ill.

—Mr. L. C. Coleman, of Mt. Pleasant, Iowa, breeds Embden and Toulouse geese, Rouen, Pekin and Muscovy ducks and various breeds of chickens as named in his advertisement on page 27. Concerning them he writes as follows: "My geese are as large as any in Iowa. I have been ten years trying to get a large strain of geese and have raised ganders that weighed twenty pounds last December. My ducks are also of a large strain and fine birds. I have won 125 ribbons with my ducks, chickens and geese. I sent out a large number of eggs last year and if any customer was dissatisfied he did not make it known. I have more orders than I could fill last year. I am now shipping eggs for hatching and if any buyer is not satisfied with the hatch and will send an order for more eggs within the next thirty days I will make a satisfactory settlement." Mr. Coleman is selling eggs from all the birds named in the advertisement.

DOGS.

SCOTCH Collie pups, sable, black and white, over two months old, from trained parents; eligible males, \$8; females, \$7. F. Bollman, Wall Lake, Ia.

FOR SALE—SCOTCH COLLIE PUPS
Male, \$5; female, \$3. W. L. Bonnett, Birmingham, Ia.

For Sale Pedigreed Scotch Collie puppies; natural heelers and prices reasonable. Pedigrees furnished. Raymond Peterson, R. 1, Garwin, Iowa.

FOX TERRIERS—King of the rat terriers. Puppies and grown stock for sale. Very choice S. C. Red cockerels. Address Sabot Kennels, Pella, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS**, Cumming, Iowa.

LEGHORNS.

ROSE COMB BROWN LEGHORNS
EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$5; 200 for \$9.

T. A. DAVENPORT, BELMOND, IOWA.

ROSE COMB BROWN LEGHORNS
EXCLUSIVELY. 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1.50; 30, \$2.00; 45, \$2.50; 60, \$3.00.

R. R. STEWART, R. 2, Charles City, Iowa.

S. C. Brown Leghorns Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

Single Comb White Leghorns
BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketchum, Box 300, Booneville, Ind.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5, 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. Sunny Slope Poultry Yards, Oskaloosa, Iowa.

S. C. B. Leghorn cks. that are well marked. Large, strong-boned, good-combed, healthy birds, \$1.50 each. F. Bollman, Wall Lake, Ia.

Rose Comb Brown Leghorns, prize-winning cockerels for sale. Also eggs in their season. For prices address Mrs. E. L. Claypool, Spencer, Ia.

Rose Comb White Leghorn eggs for hatching; 15 for \$1; 30 for \$1.75; or 100 at \$4. Address F. A. HAM, Saroville, Nebraska.

S. C. W. Leghorn eggs; first pen headed by ckl. direct from Young. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

R. C. B. Leghorn eggs, Kulp's strain; bred for quality; egg production; standard shape; color; eggs, 50, \$2.50; 100, \$4. Mrs. L. W. Renaud, Bondurant, Ia.

SINGLE COMB WHITE LEGHORNS: Eggs, 15 for \$1.25, \$3 per 100. S. C. Rhode Island Red eggs, 15 for \$1.50. Star Poultry Farm, Eddyville, Ia.

Rose Comb Brown Leghorn eggs all season. A few fine cockerels left from high-scoring stock. Address Eva D. Tutt, Alta, Iowa.

S. C. Brown Leghorn Eggs Two sittings, \$2; express prepaid. Address Nellie Cahow, Greenfield, Iowa.

Rose Comb Brown Leghorn Eggs at 75c. per 15 or \$3.50 per 100. Mrs. John Roskamp, Kanawha, Iowa.

ORPINGTONS.

S. C. BUFF ORPINGTON and Buff Rocks, also Light Brahmas, scoring 92 to 94, best of matings, all birds are high-scoring. Eggs \$3 for 15, half price after June 1st. Prices quoted on 100 lots. I. E. MINER, BUSSEY, IOWA.

S. C. White Orpington Eggs For hatching, bred to lay; \$1.50 per 15; \$2.50 per 30; \$7 per 100. M. W. Crout, 2248 Des Moines St., Des Moines, Ia.

BUFF, White and Jubilee Orpingtons for sale, including eggs very cheap till May 1st, the time we must move. P. N. Dunn, Humboldt, Iowa.

SINGLE COMB BUFF, Black, White and R. C. White. Scored cks. Scientifically mated breeders. Eggs. Baby chicks, mating list. Dr. Evans, LeGrand, Ia.

S. C. BUFF ORPINGTONS Cook strain direct. Eggs, \$2 per 15; \$10 per hundred. B. S. Long, Little Sioux, Iowa.

ORPINGTONS S. C. Buff. A fine lot of cockerels, \$1.50 to \$3 each. Eggs in season. Address Dan McCarty, Winthrop, Ia.

Buff Orpington Eggs from prize-winning birds, \$1.50 to \$3 per 15; also orders booked for baby chicks. Mrs. O. A. Mace, Bedford, Ia.

"S. C." Buff Orpington Eggs 15 for \$1.50, 50 for \$2.50, 100 \$4.00. Address, Rupert Young, Epworth, Ia.

ORPINGTONS (Buff). Greatest winter-laying hens in the world. Eggs for sale. Free catalog. Prewitt, R. 5, Onawa, Iowa.

BRAHMAS.

Ottumwa POULTRY YARDS: Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. It. T. Cameron, Ottumwa, Ia.

EGGS from massive Brahmas, \$2.75 per sitting. Not sold per 100. Good hatch guaranteed. Address, George Taylor, Barnes City, Iowa.

MINORCAS.

S. C. BLACK MINORCAS
EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$3 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

PIGEONS.

Homer Pigeons mated birds and breeders from \$1 to \$1.50 per pair. Photo free. Address J. W. HOPSON, BEDFORD, IOWA.

DUCKS.

INDIAN Runner ducks; imported stock. Orders booked for eggs at \$2 per 15. Pure fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

BABY CHICKS.

BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

PLYMOUTH ROCKS.

We are now ready to furnish EGGS from the

Quality Strain Barred Rocks

THAT have been carefully bred both for fancy and utility, at \$1.50 per 15; \$2.50 per 30; \$3.75 per 45. Prices on eggs from exhibition matings sent upon request as we have not issued a Mating List.

C. C. DRAKE & SONS, Drawer Y, LA HARPE, ILL.

BARRED PLYMOUTH ROCKS

COCKEREL pens headed by first-prize winner at Des Moines Poultry Show, 1908, and birds of equal merit. Females consist of pullets sired by the State Fair first-prize cockerel and the hens that produced them. Pullet pens are Blue Belle strain, and contain first-prize hen, State Fair, 1908; second-prize hen and pullet, Des Moines Poultry Show, 1908. Eggs, special pens, \$5 for 15; others, \$2.25 for 15. E. M. CATHART, CHARTER OAK, IA.

219 Egg Strain Barred P. Rocks

THEY win and lay and pay their own way. They have for Hartman and can for you. Eggs for hatching from all pens \$1.50 for 15, \$2.50 for 30, \$3.50 for 50 and \$6.00 per 100. Special mating \$3.00 for 15, \$5.00 for 30, and \$8.00 for 50. W. A. HARTMAN, Box 242, Winterset, Iowa.



Barred Plymouth Rock Eggs

FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weigh 10 to 12 lbs.; Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guarantee good hatch and safe delivery. Catalog free. S. V. LATCHAM, MONTEZUMA, IOWA.

BARRED ROCK EGGS

FROM extra fine hens mated with the males I had in my pens last season. Scored from 91% to 92% by Russell and Southard. Send for a true-to-life photo. Eggs \$1.15. Eggs from pens \$5 per 15. Address J. W. HOPSON, BEDFORD, IOWA.

Eggs For Hatching

FROM farm range stock; Barred Plymouth Rock, Buff Plymouth Rock and Single Comb Brown Leghorn. Prices reasonable. Circular free. C. E. MATTESON, Pewaukee, Wisconsin.

Barred Plymouth Rock Eggs

I AM offering choice eggs from the leading strains at \$1 for 15; six sittings for \$5. Write me at once. Address Jno. C. Hardman, Brayton, Iowa.

Barred Rock EGGS from high-scoring, farm-range stock, with heavy bone, small comb and clear, narrow barring. Twelve years' experience; satisfaction guaranteed; pens, \$1.50 per 15; range flock, \$1. Mrs. Chas. Murphy, Dexter, Ia.

CLOSING-OUT SALE of B. P. Rocks; 25 large, well marked, vigorous cockerels; 25 good hens at \$1.25 to \$1.75 each, unscored; cockerels \$2.50 to \$4.00. Eggs for hatching from five pens. Mrs. Eva Girard, Schleswig, Ia.

EGGS S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility results and highest fancy attainment. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

Barred P. Rock Eggs from Blake's Improved egg-laying strain. Write for prices and my secret for raising better layers. GEO. F. BLAKE, MAQUOKETA, IOWA.

Barred Rock Eggs. Utility flock, \$1 for 15, \$5.00 per 100. Pens either cockerel or pullet mating \$2.00 per 15. Mrs. P. L. Carroll, Hampton, Iowa.

White Rock Cockerels \$2 to \$5 each. Few pullets and hens. Also some extra fine Bull Terrier pups. Address F. H. ECKERT, CHARTER OAK, IOWA.

BARRED Rock cockerels, bred from carefully selected matings; vigorous, fine, even barring; extra care taken in selecting cks. to suit customers; from \$2 up. Chas. McCaskey, Route 2, Ogden, Iowa.

150 Bradley and Thompson B. P. Rocks COCKERELS AND PULLETS. Henry Schlatter & Sons, Lawler, Iowa.

WHITE ROCKS Trapped, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up. 15 eggs \$3, \$2 and \$1. Address Rev. James A. Slack, Yorktown, Iowa.

BUFF ROCK EGGS

From a strain of fine winter layers, \$1.50 per 15; \$4.50 per 50; \$8 per 100. L. L. Woods, Grinnell, Iowa.

BRADLEY STRAIN BARRED ROCKS \$1.50 per pens \$1 per 15; from flock \$1. Mrs. Geo. Dawdy, Abingdon, Ill.

18 B. P. Rock cockerels; strong, vigorous birds, with great size and quality, and narrow, deep barring. Some show birds. C. G. Good, Ogden, Ia.

Barred P. Rocks Eggs for hatching, "Shell-barger strain," both matings. Eggs, \$2 per 15; R. I. Hawthorne, West Liberty, Ia.

WHITE P. ROCK EGGS. Fishel strain, direct; score 95%, heavy layers, prices low. Write Martin Johnson, Cambridge, Illinois.

Eggs From our famous laying strain of White Plymouth Rocks are plentiful and at right prices. Address T. F. Martin, - - Maxwell, Iowa.

WHITE Plymouth Rock eggs, \$1 per 15; \$2.50 per 50; \$4 per 100. Will sell a few hens at \$1 each. Address Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

B. P. ROCKS only. Large boned, well bar., good layers, high scoring, prize win. thrifty birds, fair deal. Eggs, \$6, \$1.25; 100, \$3. J. M. Reeder, Earlville, Ia.

BARRED ROCKS Large, heavy-boned cks. Eggs in season from prize-winning strain. Frank Santee, Wheat Cheer, Ia.

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of choice quality. Address Mrs. M. C. Thompson, Route 2, Atlantic, Ia.

White P. Rock Eggs, 15 for \$1.50; 30 for \$2; 100 for \$5; from prize-winners and good stock; Fishel strain. Mrs. E. C. Turner, R. 1, Griswold, Ia.

Wright's Famous "bred-to-lay" strain Barred Plymouth Rocks. A few good cockerels for sale. Lufe D. Wright, Knoxville, Iowa.

Pure-Bred Barred Plymouth Rock EGGS for sale—\$1.50 per 15; \$6 per 100. Address George Wyland, Harlan, Ia.

PLYMOUTH ROCKS.

BARRED PLYMOUTH ROCK EGGS

THOMPSON & Bradley strains from high scoring males and females. Pen A—pullet mating. Pen B—cockerel mating. The very choicest. Address MRS. L. C. REESE, PRESCOTT, IOWA.

CRAY'S Barred Plymouth Rock Eggs for sale from \$6c. to \$5.00 per sitting of 15 eggs. Incubator eggs \$3.00 per 100. Write for my free egg circular. J. H. Cray, Wellman, Iowa.

Barred Plymouth Rocks exclusively. Eggs from high scoring birds. Largest type, best breeding and marking, Bradley strain \$2.00 per 15. Mrs. S. M. Thompson, Birmingham, Iowa.

SMITH'S Buff Rocks. Eggs for hatching from my choice flock of Buff Rocks; fine layers; 15 eggs, \$1; 100 eggs, \$6. C. F. Smith, Route 5, Griswold, Iowa.

White Rock Eggs, Fishel strain, pure white \$1.00 for 15, \$5.00 per 100. Mrs. Melvin Baird, Red Oak, Iowa. R. S.

BARRED P. Rocks exclusively, large bones, good barring. Farm range eggs for hatching 15, \$1; 30, \$1.50; 100, \$4.00. Mrs. I. S. Battles, Mitchellville, Iowa.

Martin's Snow White Rocks, scoring 93% to 95%, \$1.00, 15 eggs. Utility flock \$3.50, 100. Clarence Martin, Clarksville, Iowa.

WYANDOTTES.

EGGS EGGS

From My Great Laying Strain White Wyandottes

AT \$1.50 per 15; \$7.50 per 105. Order at once and have me ship eggs later. In my strain of White Wyandottes there is great laying and fancy quality combined. I also have for sale 2 fine pens of 9 birds each mated up for grand results. Write me quick for price if you want one of these beautiful pens. S. HARR, RIVERSIDE, IA.

WHITE WYANDOTTE EGGS

FROM stock scoring 93 to 96 by Russell; many of them first-prize winners. From best pens, \$3 for 15; \$5 for 30. Range, \$1.50 for 15; \$5 for 105. Guarantee fertility and safe delivery. GEO. W. LIVINGSTON, MONROE, IOWA.

WYANDOTTES

White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, I. S. Fair, '09. A. L. Anderson, Indianola, Ia.

I Have the Best White Wyandottes

I ever raised, now ready for sale. \$10 trio a specialty. Quality stock. J. M. Erichson, Slater, Iowa.

SILVER WYANDOTTES

Eggs, 15 for \$1; 45 for \$2.50; 100 for \$5. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3, 15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

White Wyandottes Fine large vigorous blocky birds. Farm range eggs for hatching, 15 for \$1.25, 30 for \$2.25, 50 for \$3.50, 100 for \$6.00. Mrs. C. A. Robinson, Griswold, Iowa.

B. FF WYANDOTTE EGGS Fine shape and solid buff birds scoring from 92 to 94%, \$1.50 per 15. E. K. Morris, Montezuma, Ia.

MAPLE Lawn Poultry Farm. White Wyandottes. Eggs for hatching. Excellent winter layers. Farm range \$3, 100. Mrs. C. W. Bryant, Orchard, Ia.

Buff Wyandottes I have a few good cockerels for sale. Address Mrs. Grant Davidson, R. 5, Scranton, Iowa.

Buff Wyandotte Eggs from choice, selected stock. Incubator orders filled on short notice. Geo. M. Deyoe, Mason City, Iowa.

White Wyandotte Eggs \$3.00, \$1.50, 75 cents per 15. Circular free. Otto Peterson, Jr., - - Axtell, Nebraska.

Silver Laced Wyandottes Rose Comb. Eggs, \$1 per 15; \$3 per 50; \$5 per 100. Joseph Reber, Roanoke, Ill.

Smith's W. Wyandotte eggs. Write for 1910 mating list and show record. Quality, the best. Prices reasonable. Jay L. Smith, R. 1, Minden, Neb.

BUFF WYANDOTTE FREE CATALOG. State winners. Eggs \$2.00 and \$3.00 per 15. J. S. Watson, Vail, Iowa.

WHITE Wyandotte eggs for hatching, from farm range, \$4 per hundred; 75c. per 15. Satisfaction guaranteed. Mrs. J. W. Kiesling, R. 6, Creston Ia.

Silver Laced Wyandottes Exclusively. Eggs from selected stock \$1 per 15. A few good cks. left. Dr. D. C. Garner, Mingo, Ia.

DUSTON WHITE WYANDOTTE EGGS exclusively. \$1 per 15; \$4 per 100. Blocky stay, white kind. Address, Mrs. F. O. Elliot, Kent, Iowa.

Choice Buff and Silver Laced Wyandottes; cks and cockerels, \$1 and \$2 each. Write E. K. Morris, Montezuma, Iowa.

LANGSHANS.

BLACK LANGSHANS

BRED exclusively for 16 years. There is none better and I guarantee satisfaction. Eggs for hatching \$1.50 for 15 or 30 for \$2.50. Remember that the best are the cheapest. O. H. Stillson, Corwith, Ia.

BLACK LANGSHAN Eggs for sale from large thrifty birds, farm range, \$1.00 per 15; \$4.00 per 100. Address, J. H. Rayl, Afton, Iowa.

Prize-Winning B. Langshans exclusively, scoring to 94% at Dubuque by Lambert. Eggs, \$3, 15; \$5c.; 26, \$1.50; 100, \$4.50. W. W. Baskerville, Earlville, Ia.

TURKEYS.

M. B. Turkey toms scoring 93 to 95%, \$6 to \$10; good brooding, markings and weight. White Rock cks. Sterling Martin, Melrose, Iowa.

White Holland Turkey Toms for Sale \$5 each. Mrs. Jno. S. Teale, R. 4, Lamoni, Iowa.

COCHINS.

Buff Cochins Exclusively 50 large-framed, shapely, even-colored, well-feathered cockerels at \$2 to \$5. Write W. W. Vaughn - - Marion, Iowa.

RHODE ISLAND REDS.

FREE TO CUSTOMERS

TEN CENTS to others. Lesson on color illustrated by feathers. How to mate for best results. Who are fake advertisers. Egg catalog free. Foundation stock from the best eastern and southern strains.

MRS. F. W. MCINTYRE

ROUTE 5. RED OAK, IOWA. "Both Combs" Rhode Island Red Specialist.

S. C. Rhode Island Reds

TJOMPKINS' strain. America's finest. Large, long-bodied, vigorous birds. Red to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$3 per 100. Circular free. R. H. DE VAULT, BLOOMFIELD, IOWA.

Reds—Single and Rose Comb

CHARLES CITY, 1910; Shanklin, Judge. S. C. won first, second pullet, second cockerel, second pen; 4 premiums on 6 entries. Scored range stock eggs, \$5 per 100. Choice matings, \$2, \$3 and \$5 per 15. Guaranteed good hatch. F. O. Martin, Floyd, Iowa.

S. C. Rhode Island Reds

TOMPKINS STRAIN Write for descriptive circular. P. H. Thiel, Reawick, Humboldt Co., Iowa.

ROSE COMB CHERRY REDS

20th century birds, selected eggs from high-scoring, good-laying strains. Few cockerels left. Farm range, 17 eggs for \$2.50 for \$5; 100 for \$8. My birds better than ever. Order immediately for present or future shipment. Write for circular. W. W. Forbes, Box 710, Jefferson, Ia.

R. C. Rhode Island Reds

EXCLUSIVELY. Eggs for hatching from stock scoring 90 to 94%. Write for prices and show record. H. S. Fain, Emmetsburg, Iowa.

EGGS from prize-leading Reds, both combs, 1908 Floyd Co. Fair. Cockerel, 1st; pullet, 1st-2d, 1905 North Iowa Fair. Best pair fowls, 1910, Charles City, Ia. Best display S. C. Reds, cks., 1st; pen, 1st; R. C. pen, 1st; hen, 1st; pullet, 1st-2d. Fertile eggs, \$3 per 50; pens, \$2 per 15; \$3.50 per 30. Mrs. A. Laun, Floyd, Ia.

S. C. R. I. REDS

BRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. M. Finkenbagen, Ellsworth, Ia.

Single Comb Rhode Island Reds; eggs for hatching; good stock; fine winter layers. Eggs, \$1, \$1.50 and \$2 per sitting; \$4 per 100 from utility flock. L. F. Allison, R. 2, Quincy, Illinois

Rose Comb R. I. Island Reds. A few scored cockerels for sale. Eggs from high-scoring birds, \$2 per 15; \$3.50 per 30; \$10 per 100. Mrs. E. C. McCarthy, - Elliott, Iowa.

S. C. R. I. Red cockerels for sale; scored and unscored. Eggs for sale. Write for prices. Mrs. H. L. Alsop, Sylvia, Iowa.

R. C. R. I. Reds. Cherry Red strain. Eggs from 5 pens; also utility yard. Scored cockerels for sale. Harry C. Blake, Maquoketa, Ia.

SINGLE COMB RHODE ISLAND REDS Pen, \$3; range, \$1 per 15 eggs. S. T. BUSSARD, BOX 143, ESSEX, IOWA.

POSE and Single Comb R. I. Reds; fine bred, high-scoring eggs, 15 for \$1, 50 for \$3, 100 for \$5. Good laying strains. Mrs. T. A. Gough, Bristol, Iowa.

ROSE Comb Reds. Trap-nested for great egg production. Beautifully illus. instructive, descriptive catalog free. Iowa Poultry Farm, Gilmore City, Ia.

S. C. R. I. Red eggs from high scoring stock, that are proven winter layers; perfect type and color; \$1.25 per 15; \$5 per 100. C. W. Keliogg, Klierim, Iowa.

SEND stamp for egg circular 3 pens for eggs at \$5, \$3 and \$1.50 per 15. W. I. Mouser, R. 5, Red Oak, Iowa, breeder of high-scoring S. C. R. I. Reds.

S. C. Rhode Island Reds A choice lot of scored birds for sale; eggs in season. Lee Nichols, R. 4, Woodward, Ia.

S. C. R. I. Reds Exclusively. Stock for sale; scored or unscored. Eggs in season. J. T. Nicholson, Bellevue, Iowa.

S. C. R. I. Red Eggs, \$1.50 for 15. A few S. C. and R. C. cockerels at a bargain. MRS. SOPHIA RADER, LAUREL, IOWA.

EGGS From choice mating; Rose Comb R. I. Reds; great laying strain; best of stock. Address A. L. Sanders, Perry, Iowa.

Eggs From R. C. R. I. Reds \$1 per 15 eggs. Mrs. A. N. Stryker, R. 1, Guernsey, Ia.

S. C. R. I. REDS Eggs from fine matings, at \$1 per 15; \$5 per 100. Address I. C. WELCH, Bedford, Iowa.

R. C. R. I. R. Eggs from high scoring stock, \$1.25 per 15, \$3.00 per 50, \$5.00 per 100. D. E. Witmer, Polk, Iowa.

R. C. Rhode Island Reds; winners; score 91 to 93%; red to skin; eggs, \$2 for 15; \$5 for 45. John Hettich, Poultry Judge, Bowling Green, Mo.

MISCELLANEOUS.

B. P. ROCKS. M. B. TURKEYS ROCKS, best utility. Good winter layers. Eggs \$1.00 per 15; \$5.00 per 100. M. B. Turkeys, prize winning stock. Eggs, \$4.00 per 10. Address, P. J. Cooney, Box 513, New Hampton, Iowa.

Mammoth Bronze Turkeys and Barred Plymouth Rocks TJOMPKINS scoring 96 to 97 at New Hampton, 1909. Eggs, \$4 per 10. Barred Rock eggs, \$2 per 13. Cks. heading this pen won first at New Hampton, 1910. W. J. DAVID, NEW HAMPTON, IOWA.

S. & R. C. Brown Leghorn. S. L. Wyandotte Eggs, 1st and 2nd prize State Fair winners in pens. 15, \$1.25; 30, \$2.00; 50, \$3.00. S. C. eggs from flock \$4.00, 100. Mrs. Will Michael, Selma, Ia.

EGGS R. I. Red, W. Orpington, S. L. Wyandotte, all Rose C. Pekin and Indian Runner ducks, all bred for size and egg production. Send for circular. P. F. Smith, Montezuma, Ia.

Rose Comb White Leghorn and Black Langshan eggs for sale, 26 for \$1.50 or \$4.00 per 100. Joseph Kappes, Jr., Ashton, Ia. Box 42.

MISCELLANEOUS.

249 GOOD COCKERELS

Barred, White and Buff Rocks, White and Golden Wyandottes, Black Langshans, S. C. Buff Orpingtons, Rose and Single Comb R. I. Reds. Order now for eggs and baby chicks. Write me for prices and information. I. M. FISHER, Box H, Hastings, Neb.

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START right. Get the laying and winning kind. Single Comb White Leghorns, Indian Runner ducks, large White Holland turkeys. Egg catalog free. Mary Culver, R. 1, King City, Missouri

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From Prize-Winning Stock for Sale. George M. Grinstead, Mitchellville, Iowa.

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FIFTEEN for \$1; 45 for \$2.50; 100 for \$5. I guarantee a fair hatch or send another order at half price. I also breed Shetland ponies. Some young colts for sale. Frank P. Healy, Bedford, Iowa.

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Illustrates and gives prices of 45 varieties land and water fowls and eggs. This book should be in the hands of every person interested in poultry for profit. Address S. A. Hummel, Box 56, Freeport, Ill.

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BARRED Rock, special mating, per sitting, \$1.25; two sittings, \$2; farm range, 2 sittings, \$1, \$3 per 100. M. B. turkey eggs, 30 cents each; \$3 per sitting of 10; also 15 large, finely-marked B. P. Rock cks. at \$2 each. M. V. Leeper, Redfield, Iowa.

Free To Everybody

INTERESTED in S. L. Wyandottes, Pekin ducks and Bronze turkeys, my 1910 catalog and mating list. Drop me a card. It is ready now. J. D. Smith, Route 3, Montezuma, Iowa.

Barred P. Rock cockerels, sired by the cockerel winning first at Cedar Rapids, 1909, and first cock at Oelwein, 1910. Egg and chick circular of Rocks, Reds, W. Cochins, Bantams, S. C. W. Leghorns, Toulouse geese. C. H. Drake, Hazleton, Ia.

Wanted to Buy Rhode Island Red, Golden Wyandotte and Buff Orpington, White Orpington and White Rock eggs in case lots. Write, describing what you have, and quote lowest price. Mathew Mertz, Des Moines, Ia.

"BIRDS THAT LAY AND PAY" R. C. R. I. Reds exclusively; pen 1, trapped, 15 eggs, \$2; pen 2, 15 eggs, \$1.50; incubator lots, \$6 per 100. Bourbon Red turkey eggs, \$5 per 12. MRS. CLIFF SAID, EMERSON, IOWA.

EGGS FOR HATCHING from the best of matings of Buff Cochins and B. P. Rock chickens, White Holland Turkeys and Pekin Ducks. Prices right. Address, Mrs. J. E. Baxter, Walnut Grove, Minn.

BARRED PLYMOUTH ROCKS Have some choice hens of leading strains. Also 35 Toulouse geese, best of stock. Mrs. James Cackerton, Whiting, Ia.

Barred Plymouth Rock eggs for hatching, \$5 per hundred. An extra good quality farm flock, bred right. High-scoring Rouen ducks; eggs, \$1 per ten. J. H. Hawarth, Moulton, Iowa.

48 Breeds chickens, ducks, geese, turkeys. Fowls, eggs, and incubators at low prices. America's greatest poultry farm. Send 4c for fine 80-page 16th Annual Poultry Book. R. F. Neuber, Box 807, Mankato, Minn.

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S. C. B. Leghorn Eggs \$4 per 100; \$7 per 200. Mammoth Pekin duck eggs, \$6 per 100; \$11 per 200. John M. Hall, Williams, Iowa.

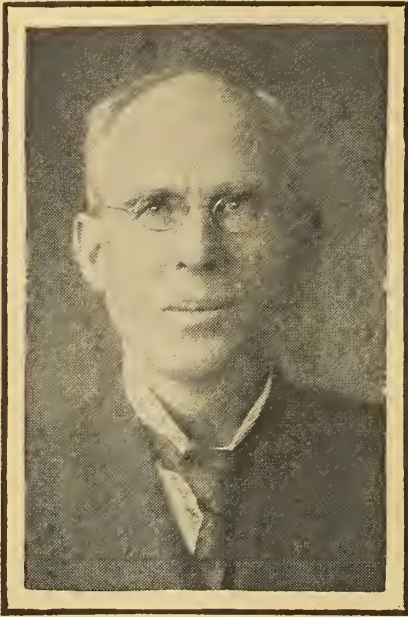
BARRED ROCK S. C. RHODE ISLAND COCKERELS For sale cheap. E. E. HEALY

Iowa Good Roads Convention

ASSEMBLING in response to the call of Governor Carroll, 2,000 good roads enthusiasts held a state convention in Des Moines last week and gave an impetus to the campaign for improved highways. Two-thirds of the counties of the state and more than one-half of the cities and towns were represented. A majority of the delegates were township trustees, county supervisors or state legislators, and at times they evinced a spirit of touchiness at having what they believed to be their rights and powers infringed upon, but as a rule the recommendations of the speakers were taken in good part and the discussions were free from wrangling.

The one great disappointment of the convention was the turning down of the plan advocated by Governor Carroll and others to make uniform or standardize the roads of the state by recommending to the

legislature the enactment of a law authorizing the selection of a county engineer in each of the ninety-nine counties, in order to make highways which shall form continuous stretches of good roads and to get the most out of the people's money through expert advice and instruction. The resolutions committee incorporated a recommendation of this plan in its report,



JOHN W. FOSTER.

but this particular section was stricken out by a vote of 315 to 168. The vote came late in the afternoon of the last day of the convention and many of the delegates had gone away. It is believed highly probable that had the matter come up at the first session, when all were present, it would have carried by an overwhelming vote.

Regret at the action of the convention in this regard was expressed by Governor Carroll and Chairman Lafe Young. The

governor took the matter good-naturedly and remarked: "I want you to come back for another convention a year from now. By that time I am confident that you will see the good in the county engineer plan. Calm consideration will show this and I think a year from now you will be ready to support the plan." Chairman Young declared that by turning down the recommendation the delegates had practically destroyed the good that should come from such a meeting. "It took the farmers fifty years to come to fencing in their fields and keeping their stock in bounds," he asserted, "and with this display of spirit it will take fifty years to come to the point of making good roads."

The recommendation which precipitated the only contest of the convention and which was turned down reads as follows:

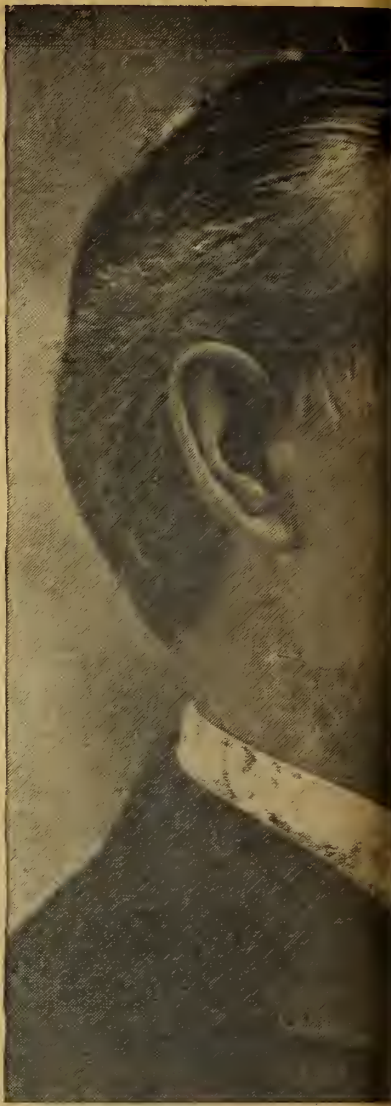
That we advise legislation looking to the placing of the roads of the state under trained supervision, including the creation of a state highway commission, the appointment of a state engineer, and the office of county engineer, the latter to be appointed by the board of supervisors and to include in his duties those of the present county surveyor, and no person should be eligible to appointment except he be thoroughly skilled in the work of general road drainage, road, bridge and culvert building and construction. We recommend that the county engineer be empowered to enforce uniform standards of grading, bridge and culvert building and construction and drainage, and that he have supervision of the entire road work of the county and the road officers of every township in an advisory and directory capacity, under the general direction of the board of supervisors.

The resolutions adopted and spread on the records of the convention are as follows:

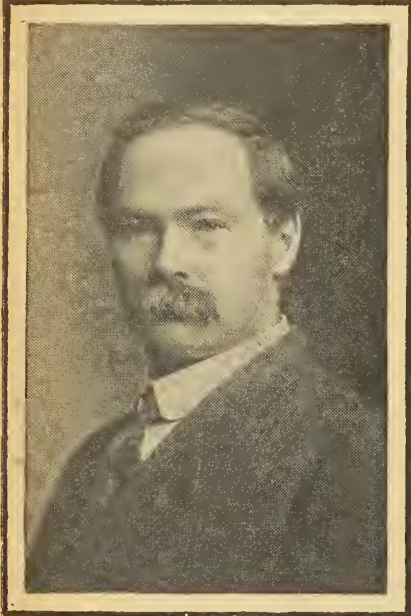
We, citizens of Iowa, gathered in convention at call of Governor Carroll, believe that improved roads are the most urgent need of Iowa. We believe that the time will come when the state may be provided with a system of permanent highways, but we are of the opinion that this cannot to any considerable extent be brought about for some years for the reason that public sentiment is not yet sufficiently crystallized as to the necessity for and the value of such roads, as to what kind of permanent roads should be built, and because the people are not yet ready to tax themselves the amount that would be required to build permanent highways. Therefore resolved:

First—That we urge the strict enforcement of the compulsory drag law.

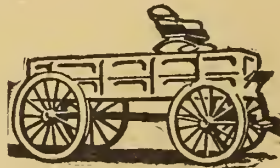
Second—That we commend the action of those Iowa cities that are now systematic-



GOV. B. F. C. Iowa's governor who inaugurated a sta



A. MARSTON.



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S-W Commonwealth Barn Red

A bright, handsome red for painting barns, outbuildings, fences, corn cribs, etc. It works freely under the brush, has great covering capacity and wears well. Is put up full U. S. Standard Measure, and so is more economical than the many short measure, poor quality barn paints sold at a low price.

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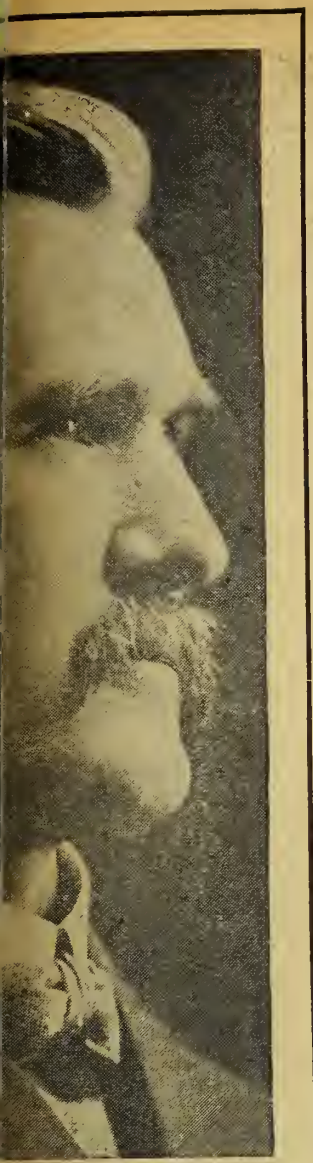
is made of Pure White Lead, Pure Zinc and Pure Linseed Oil, with the necessary coloring pigments and driers. All combined in correct proportions with the aid of powerful machinery of our own special design. There is no better paint made than S. W. P. It will cover more surface, look better and last longer than cheap mixed paints or hand mixed lead and oil. Put up full U. S. Standard Measure.

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A durable oil gloss paint made especially to withstand hard usage. There is the greatest economy in keeping your wagons and implements well painted, to protect the wooden parts against dampness and cracking and the iron and steel parts against rust. It brushes out evenly, covers well and is very permanent in color. Your farm equipment will last twice as long if kept well painted and will give you better service all the time.

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L, campaign for better roads.

ally dragging the roads from the business districts to the corporation limit.

Third—That we urge the organization of state, county and township good roads associations.

Fourth—That we indorse the excellent work of the present highway commission.

Fifth—That we favor the construction of permanent culverts and small bridges of concrete or stone and to further this work we recommend the enactment of a law authorizing the qualified electors of every township to vote, if they choose so to do, a special tax for this purpose.

Sixth—That we recommend a law requiring the boards of supervisors to submit the proposition to the public for bids for road structures above a certain sum, and that the building of such structures shall be under the supervision of the county engineer.

Seventh—That we extend to Governor Carroll our most hearty thanks for calling the present convention. We are grateful to him for the deep interest he has shown in the public highways of the state, and we commend him especially for the practical lines to which the addresses and discussions have been held. We believe that the greatest impetus the cause of good roads ever has known will result from this convention. We would urge upon the chief executive the advisability of continuing the good work begun by a call for a great state-wide convention next year.

Eighth—That we express the cordial appreciation of this convention to the commercial club and city of Des Moines for the hospitality extended to us during the session, and that we express our appreciation to the gentlemen who have prepared such able papers and discussions for the benefit of this convention.

Governor Carroll's Advice.

The main interest of the convention centered in the speech of Governor Carroll. It was delivered the opening night before a large audience. At the outset of his speech in the evening, the governor took occasion to dismiss the general impression throughout the state that he is favoring the cutting down of the width of the roads. He said this impression was gained through a speech he made on conservation in which he spoke of the vast waste of land along the side of public highways which could be used as farm land.

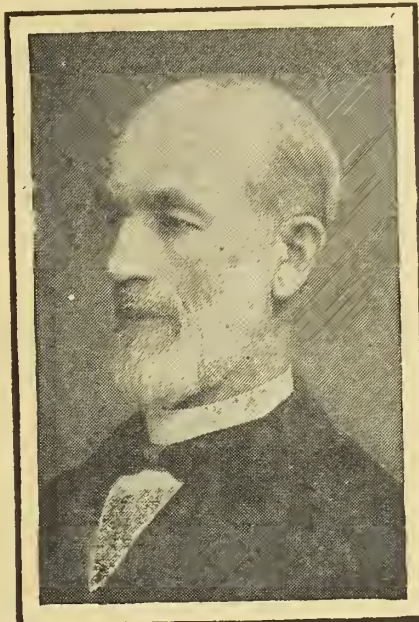
"I have never said," he declared, "that thirty or forty feet was wide enough for the roads of the state."

He then proceeded to show that if a half rod were taken from each side of the highways of the state that 200,000 acres of now wasted land could be turned into tillable land and made productive.

"But we don't need a state law to fix

the width of roads," he said in dismissing the subject. "The width of the roads should be determined by local officials and by local conditions. In some localities a wide road is imperative and in other localities it is not needed at all and a much narrower road suffices. However, don't understand me as advocating narrower roads."

The governor then took up the question of what kind of roads should be built in this state. He admitted that stone and gravel roads make fine highways, but ex-



W. R. LEWIS

pressed himself as doubtful if Iowa wants these kinds of roads now.

"Iowa will not undertake such propositions now," he said, "so I must ultimately come to a discussion of dirt roads."

There is but one difficulty with Iowa dirt roads, he pointed out, and that is keeping the water out and off of them. Then the governor paid his compliments to the road trustees of the state and informed them that while he did not want to abuse them, he wanted some sort of a

change that they may be relieved of the road building and maintenance work.

In Iowa we have the dirt roads, he said, but no gravel or stone. Hence, he said, the question is one of improving the dirt roads.

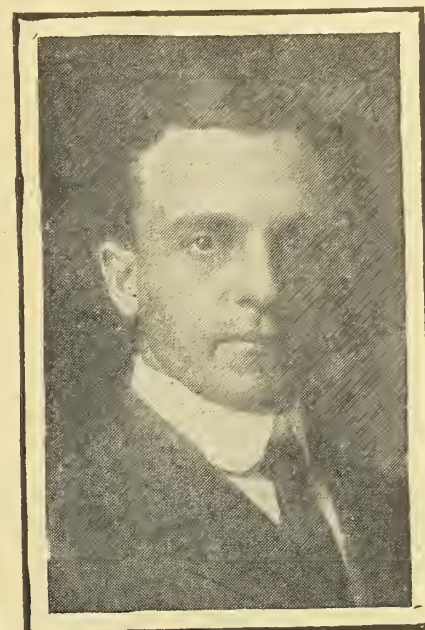
In this work he asserted that the services of competent road engineers was absolutely necessary and he went on record as favoring a law giving to each county a road engineer.

He expressed himself further as in favor of the proposal to set apart a portion of the township fund for road dragging purposes.

Chairman Young Makes Suggestions.

The chairman of the meeting, Mr. Lafayette Young, editor of the Des Moines Capital, presented some interesting figures to the convention in an interesting way, and among other things said:

Good dirt roads would add millions, figuratively speaking, to the happiness and comfort of the people; would also save money. The national agricultural depart-



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WILLIAMS

FOR USE ON THE FARM

S-W Metalastic No. 2

A metal protective paint all ready to use. Is made of a combination of Graphite and other materials and Pure Linseed Oil, and has greater durability than many of the so-called graphite paints. It dries rapidly and gives a hard, impervious paint film that effectively protects the metal beneath. Just the paint to use on the metal parts of windmills, farm machinery, metal roofs, spoutings, iron fences and, in fact, on all metal surfaces exposed to the weather.

S-W Buggy Paint

will make your old buggy look like new. This is a Varnish Gloss Paint made to stand wear and tear and outside exposure. It colors and varnishes at one operation and vehicles finished with it can be washed without injuring the gloss or durability of the paint. S-W Buggy Paint is a high quality product and should not be confused with the many cheap mixtures on the market. Comes in full measure cans; nine handsome colors.

S-W Creosote Paint

is a moderate priced paint, just the paint for painting farm buildings, outhouses, fences, bridges, etc., in fact for protecting all kinds of rough wooden structures from the wear and tear of the weather. It is of splendid quality, spreads easily under the brush and wears well. It contains Creosote, which prevents the decay of the wood and has a very sanitary effect in buildings where poultry, horses and stock are kept.

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Full of valuable information as to the uses and economies of Paints and Varnishes.

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The Ozarks are the Denmark of America.

Right here in the heart of the Mississippi Valley, practically on the outskirts of three great cities, is the greatest natural dairy country in the world, where butter fat can be produced cheaper than it can be produced anywhere else in America.

There are logical reasons why this is so.

First, the cost of land is very low; \$5 to \$25 an acre with abundant timber shelter.

The climate of the Ozarks, free from extremes of heat and cold, is ideal for the health of the cow and the production of milk.

Numerous mountain streams provide an abundance of pure water.

Grasses, clovers and forage crops grow profusely in the Ozarks, thus producing cheap feeds that reduce the cost of feeding to the minimum. Orchard grass, an especially prolific grower, will furnish fine green feed almost the entire winter. If reinforced with winter Vetch, winter rye, winter barley, winter oats and fescue grass, there will hardly be ten days all winter when

stock can't be allowed to run on such pastures and kept in fine flesh. Milk cows in the Ozarks, when properly managed, are always healthy, and free from tuberculosis.

One Ozark farmer gets a net profit of \$12 a month from each of his cows. The cream and fertilizer from each cow are worth \$100 a year to him.

With the use of intelligent methods others can do this well. I am prepared to explain just how such results are accomplished if you are interested.

Dairying is just one feature of intensive farming in the Ozarks. Hogs, sheep, mules, poultry and fruit are all very profitable.

A small farm devoted to these pursuits will return a big profit on a small investment of capital and labor.

If you will get a small farm in the Ozarks, set out an orchard of well selected varieties, lay out a vegetable garden and berry patch, stock the farm with poultry, cows, pigs, sheep and mules, grow the feeds and grasses you need for them, you will realize a greater profit than you possibly could make on a big grain farm elsewhere.

Furthermore you would live in a beautiful country, in healthful surroundings, free from malaria and away from severe cold and snow. You would be within a few hours of three large markets—St. Louis, Kansas City and Memphis and would have advantage of good local markets, schools, churches, etc.



It will be worth your while to look farther into this. We have some attractive books full of plain facts about the Ozarks. They will interest you. Write for free copies today.

ALEX. HULTON, GENERAL PASS. AGENT 1509 Frisco Bldg., St. Louis



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"I have run..... and many other machines, but the Wolverine beats them all for making money. I have put 216 pounds of dry straw in a bale and 175 pounds of hay." (Abstract from letter received. Name and address of party furnished on request.)

From "stem to stern" the Wolverine Hay Press is RIGHT. There isn't a dishonest or careless spot in its whole make-up. We have the biggest plant in the country devoted exclusively to making Hay Presses. The Wolverine has made an enviable reputation—and it is maintaining that reputation and increasing its facilities every year to take care of the growing demand.

A smooth, even, heavy bale comes from the Wolverine Hay Press. It is a fact that dealers will often pay more for hay put up in nice bales. It cuts hay as fast as it can be handled by four men in a mow. It can be depended upon to work every hour in the day without a repair man constantly "tinkering" around. It is built for hard, long service.

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The Wolverine is built both with steel and wood frames, four different sizes, all with double gears, with various equipments to suit the requirements of purchasers. It isn't the cheapest Hay Press made, if first cost is considered, but it is the cheapest baler in the long run because there is an absence of repair bills.

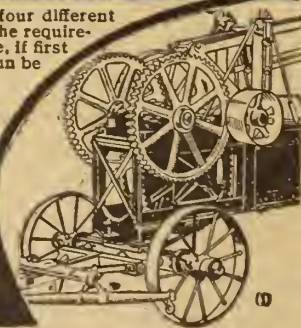
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Every farmer will find many interesting and instructive things in the "Wolverine Book." A postal will bring this book to you. It's worth asking for.

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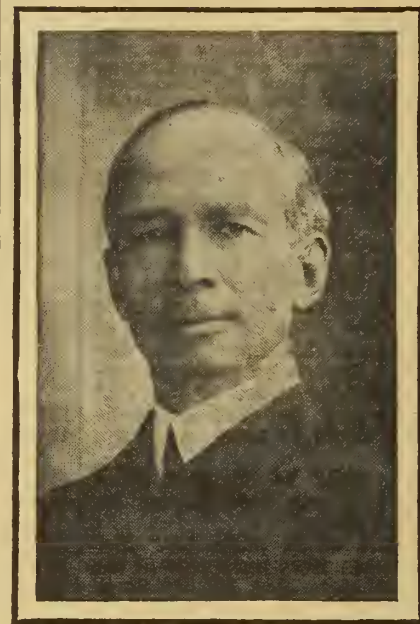
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ment says that it costs twenty-five cents per ton, per mile, to move a ton of freight by horse and wagon over the average American country road. The same work can be done in England for five cents per ton, per mile.

When we think of European roads in America, or when we think of the old national road built by the federal government beginning in the year 1814, we must count the cost. The national road built to encourage immigration west begun at Washington city, and wound its way through West Virginia, Ohio, Indiana and a part of Illinois. It was not completed until the near approach of building railroads. But it served a great purpose. It assisted in keeping the tide of immigration toward the West. The national road cost the federal government from \$9,000 to \$13,000 per mile. To build such a road through Iowa would cost more. Everything was



C. F. CURTISS.

cheap in the year 1814. Everything is costly at the present time. To build a brick pavement as it is built in the cities, twenty feet wide, 3,640 feet long, would cost \$15,692. Suppose this brick pavement separated two eighty-acre fields. It will be seen that the expenditure would amount to nearly \$100 per acre for the two fields. This would be a greater expense than the land owners could afford. This example would do away with the suggestion that public highways might be built on the plan of city pavements. Furthermore, all residents of cities know that it finally becomes expensive to keep pavements in repair. Country roads, even if made of macadam, or any other material, would be costly, as regards repairs. The old national road has now practically disappeared, though it cost many millions. It therefore must be remembered that the item of repairs will come in as an annual expense whether our roads be made of dirt, of gravel, macadam or any other material.

The people of Iowa are annually paying into road funds, if we are to count bridges, over \$5,000,000 per annum. The one-mill county levy amounts to \$600,000. The poll tax levy amounts to \$300,000. The four-mill township levy amounts to \$2,000,000. The bridge fund yields \$2,200,000. There will be an increase of these amounts this year to the amount of 25 per cent. The lack of uniformity in road work and a failure to do the work at the right time, are the two greatest faults of the present system. In some counties everything is characterized by carelessness and inefficiency, but scattered throughout the state there are occasional townships where everything is done right; where the money is properly expended and value received is secured. If I were to try to define the things that are now needed, I would say that there should be a well-defined contract system for all the work, including the dragging. Some townships in the state do all their dragging and keep everything in repair and have money left on hand. Others are out of money and nothing seemingly has been

done. These two conditions mark the degrees of efficiency of the men engaged in the work.

I think great progress has been made during the past six years. The outlook is not at all discouraging. There is little disposition to go back to the old system of neighborhood work. The cash payment of the road fund is quite generally accepted. This settles a disputed and difficult point. The people were slow to consent to cash payments of road taxes. Now if the county engineer can succeed the county surveyor and the county engineer co-operate with the state highway commission, another great step will have been taken forward.

If I were to urge my individual opinion it would be that what is needed throughout the state is a thorough revival of pride in the roads and a thorough ambition to get the most for the money at hand. I believe that if the year 1910 could be characterized by a systematic draining and dragging, so much would be accomplished that the year 1911 would be simply wonderful as regards good roads.

Professor Marston's Road-Making Principles.

Prof. A. Marston, dean of the Iowa Agricultural College of Mechanic Arts, presented an inspiring address, in which he outlined the principles of road making. Professor Marston is a member of the Iowa Highway Commission and no man in the state stands higher with the people as an authority on this important subject. The ten planks in Professor Marston's platform are:

First: Surveys and Plans.—Each road should be surveyed and a grade line and definite plans for its improvement should be prepared by a competent road engineer.

Second: Sub-drainage.—One tile sub-drain should be laid to a surveyor's grade, three or four feet under the side ditch, on that side of the road from which the underflow comes, in all places on our highways where the ground water comes nearer than three or four feet to the surface for any appreciable part of the year. The sub-drains need not and should not be used indiscriminately. To sub-drain all the roads of Iowa would cost

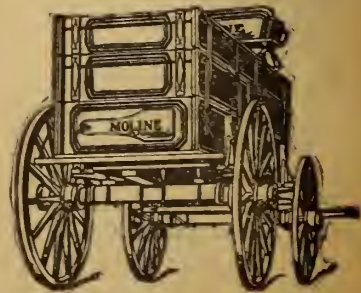
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Think of that—14 features none of which any other wagon can boast—14 features all invented in perfecting this great wagon—14 features which added to a most remarkable construction of air seasoned oak and hickory, strengthened at all vital points with iron, produce a wagon whose strength and durability has never been approached in any other wagon. Every dollar you pay for the

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buys dependable quality—30 years or more of service. You can only guess how long a cheap wagon will last. At the best it will last less than one half as long as a John Deere Moline Iron-clad, and will need twice the repairs. Even if you are not in the market for a new wagon just now, you should investigate this greatest of wagons. Find out just what its 14 exclusive improvements are. We will be glad to send you an illustrated booklet if you will send us your name.

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\$30,000,000, and much of this money could be put to better use.

Third: Side Ditches.—Good side ditches constructed to a surveyor's grade, should be provided on each side of the traveled road to carry away the water promptly to a good, natural outlet. The slopes of the side ditches should be so flat on both sides as not to prevent the use of a mowing machine.

Fourth: Crown.—Each road should have a well-rounded crown, sufficiently steep to throw all water immediately to the side ditches.

Fifth: Grading.—The building of the side ditches and the crown, and of embankments and cuts, constitute the grading or building of earth roads, which should be done entirely by carefully-organized and trained gangs of men, equipped with the best machinery and employed constantly at such work throughout the entire favorable season.

Sixth: Culverts and Bridges.—Culverts and small bridges should be built of permanent masonry, such as reinforced concrete, and large bridges of all masonry, or of heavy steel with masonry foundations, where practicable. All culverts and bridges should be located and built in accordance with a road engineer's directions, and according to standard plans and specifications. The work should be done by expert trained men. All contracts should be awarded by open competitive bidding to the lowest responsible bidder.

Seventh: Dragging.—Earth and gravel roads should be kept smooth and well crowned, and earth roads should be puddled by the constant, regular use of a road drag after every storm of rain. In this way earth roads can be maintained in first-class condition at all times except those of long continued storms, or when the frost is going out in the spring.

Eighth: Weed Cutting and General Maintenance.—The weeds and other objectionable vegetation should be cut regularly and all other miscellaneous maintenance work systematically attended to.

Ninth: Hard Roads.—While earth roads can be maintained in good condition most of the time by the road drag, the only way to make them serviceable under all conditions of weather is by surfacing them with hard materials, such as gravel, broken stone or brick.

Tenth: Organization.—The only way to secure good roads or any fair return for money expended on roads is to provide a thoroughly organized administration of road work by trained, expert road employees.

Professor Marston outlined a somewhat comprehensive plan of road organization, such as a corporation would form to build a system of roads in Iowa. This is his plan:

First—A comprehensive road organization could be effected by establishing county engineers with civil service qualifications, appointed by the county supervisors, trained road supervisors appointed, and to some extent supervised, by the township trustees, but working directly under the county engineers, and an enlarged, non-salaried state highway commission, with broad duties.

Second—About \$500,000 should be

set aside annually from the township road fund for the exclusive purpose of dragging all earth and gravel roads.

Third—About \$1,250,000 should be devoted annually to permanent road improvements, such as grading with organized county gangs, and the construction of gravel, stone and brick roads.

Fourth—The \$1,750,000 collected annually in the bridge fund should be spent for permanent masonry or steel bridges and culverts, according to standard or special plans and specifications, prepared by the highway commission and the county engineer. All contracts should be awarded by open competitive bidding to the lowest responsible bidders, and only trained bridge gangs should be employed on work done directly by the counties.

Fifth—About \$1,000,000 annually would be left for repairs, weed cutting, miscellaneous maintenance and administration.

Sixth—The state could, with great advantage, appropriate, say 10 per cent of the cost of permanent road building, not counting bridges and culverts, up to a maximum of \$100,000 per year, as a reward for the building of permanent gravel and other roads, constructed according to the approved plans and specifications and under the general supervision of the highway commission. Such an appropriation would save a great amount of present waste by encouraging permanent improvements and by insuring state supervision.

F. A. O'Connor Favors County Engineer.

Mr. F. A. O'Connor, a member of the Iowa House of Representatives, was assigned the topic, "The County Engineer." In part, Mr. O'Connor said:

I believe we should have an officer known as the county highway engineer. He should be a graduate civil engineer, if possible, but if not, he should be a man possessing exceptional qualifications in the practical requirements of his office. To his care and supervision should be entrusted the construction of the permanent roads of his county. The selection of the particular roads to be

improved I would leave to the discretion of the board of supervisors. When that body had agreed on the portion of the road to be constructed, permanently, it would be the duty of the engineer to assume control. He

should perfect the plans and specifications with as much care and caution as the builder of a modern sky scraper or the constructor of a railroad system. The work thereafter should be let by contract and should

EASY ON MAN AND HORSE LA CROSSE GANG PLOW

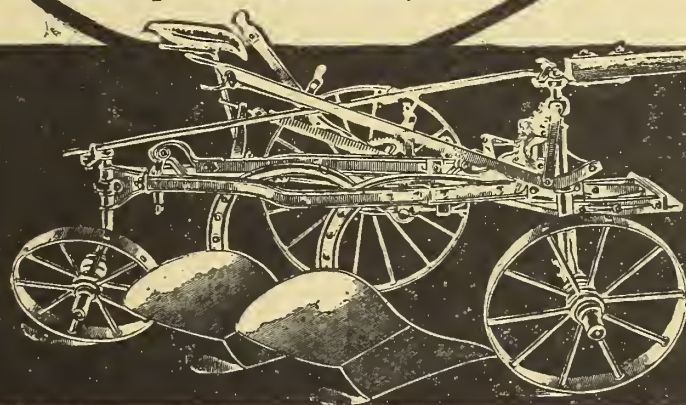
The wonderful compound lever foot-lift and special throw down lever saves the man—the extra light draft and flexible connection of rear of beams in frame saves the horses. And it is the strongest, most durable plow made.

Land axle and lever work as a unit keeping frame level whether bottoms are up or down. Single bail with flexible connection to frame insures proper suction, and allows plow to "give" when hitting solid obstruction, thus greatly lessening chance of breakage. A strong frame and dust-proof bearings add durability. The wonderful compound lever foot lift allows you to lift it as easily in the field as on the floor.

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Find out about the plow that saves you and the horses so much work. Don't buy until you get our catalog. It is free. Write to-day.

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JUST drop us a post card and we will send you, free, the latest edition of our **Corn Book**, containing the best information from the highest authority on selection and care of seed corn. You can get more and better corn without increased cost by following this book.

Every page illustrated and printed in colors.

The fact that this book also contains description of

The Deere No. 9 Corn Planter

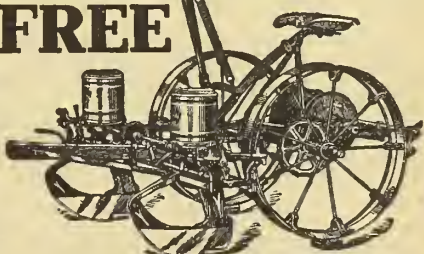
the most highly perfected machine on the market, adds to its value.

Increased accuracy secured by the famous **Deere edge-selection drop**, means anywhere from ten to fifteen bushels per acre over the old style of machine. Repeated tests have shown the above increase in favor of really accurate planting.

We have plates for all kinds of corn and other seeds. Instantly changed from hill to drill drop without changing plates.

Fertilizer attachment that distributes either in hill or drill.

Illustration here shows the regular runner, but stub runner or disc openers may be had on special order. In fact, the **Deere No. 9** is strictly up to date in all real improvements.



Deere No. 9 Edge-Drop Planter
Highest Accuracy in Drop

Deere & Mansur Co.
Moline, Illinois.

NOW! IS JUST THE TIME GET A PENCIL AND A POST CARD NOW!

You have been seeing my ads all fall and winter—read some of them, may be. Meant some time to write me to find out what all my advertising was about. But you put it off—couldn't find a pencil maybe. Had to quit reading and go out to do some chore or other—and you clean forgot it.

Now—Right Now you're thinking about it again. Don't stop till you

Write Galloway today about a Manure Spreader

Freight Prepaid



Lowest prices
ever offered.
Try it 30 days
on your own
farm.

Made
in
5 Sizes

Why? The best reason is that this in the year when you will need a spreader if you ever did. Manure in piles all around the barn and feed lots. Worth lots of money. Can't afford to waste a bit. Takes an awful lot of time. Get a spreader of Galloway. Best investment you ever made in machinery.

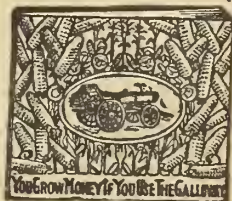
Galloway makes all his promises, all his statements, claims and challenges in black and white. A man can read 'em running. Now, what about the other fellow? Make him write it in the contract. Does he say his spreader will beat the Galloway before breakfast? Make him write it in the contract. Does he claim his spreader is made of better material than the Galloway? Make him write it in the contract.

I will write any of my agreements—I do write 'em, every one of 'em. Ever think of that? Think it over then. If the Galloway were not exactly as good or better than I claim it is, could I hope to escape utter smash-up? You know I couldn't stay in business with my written claims and agreements if I didn't have the spreader to back me up.

Well then, won't you take my advice, accept my invitation, fix it any way you choose but get your name onto a slip of paper or a postal card and send it to me. Not next week—not next Saturday—not tomorrow. Do it quick. Now is the time—Now. Then you'll be ready for the spring work.

By the way, ask for my proposition. It might pay for your spreader before the year is half done.

WM. GALLOWAY President WM. GALLOWAY COMPANY 107 Galloway Sta. WATERLOO, IOWA



FREE This book contains barrelful of good information about Manure Spreaders and how to make money with them. Ask us for one—they are FREE!

be under the direct supervision of the county engineer.

It appeals to me that it might be better if he were relieved from such incidental duties as employment of labor, the payment of claims and bills, the purchasing of supplies, etc. He should be allowed to work out his own plans and, if capable, satisfactory results must follow. Provision should be made for proper and reasonable complaint and in such case either the board of supervisors or the state highway commission should be the arbiter. If the latter, we should see that the state highway commission be composed of experts in engineering and road building.

The county engineer should be paid a salary commensurate with the valuable services he is expected to render. A cheap stipend will attract cheap men. The salary should be paid out of the county fund the same as all other county officials are paid.

Our weakness at present is in the system and not in the men who are engaged in road work, asserted Senator Frederick Larrabee, who concluded the afternoon's program. We should have a system somewhat corresponding to the engineering department of the railroads:

A state highway commission composed of skilled road men.

A county or district engineer to have charge of certain territory.

A township or district superintendent.

The township superintendent should be under the supervision of the county engineer, and the township superintendent under the state highway commission. These officers would correspond to the chief engineer, division engineer and section foreman of the railroads.

It is of just as much importance that a wagon road should be under the supervision of skilled men as for a railroad. Under present conditions, from one year to another, we have scarcely anything except bridges to show for our past labors.

After a road is once built it should at all times be cared for. The old saying, "A stitch in time saves nine," is only too true. The maintenance of a road is even of as great importance as its construction, and a well-organized department for maintenance would avoid the necessity of constantly rebuilding our dirt roads and should keep them in shape at all times.

My study has led me to believe that with a well-organized department for the supervision of highways and all matters pertaining thereto, there could be made a saving of money more than equal to the amount that would be paid in salaries to road officials.

Secretary T. H. MacDonald Speaks.

No address made during the entire convention was listened to with greater interest than the one presented by Thomas H. MacDonald, secretary of the Iowa Highway Commission. Mr. MacDonald referred specifically by county and by township to instances where remarkable results were accomplished in making roads by the use of such materials as were at hand, and he also pointed out cases where public money was being extravagantly used, more through ignorance than through the means of graft. The highway commission, by furnishing plans and estimates on one bridge across the Des Moines river, saved one county \$7,000, a sum equivalent to the annual appropriation made for the highway commission. Mr. MacDonald called attention to the fact that for lack of proper specifications many permanent bridges were being constructed that do not have strength sufficient to hold a modern traction engine and, in opinion of Mr. MacDonald, so long as the present system of handling our roads is in vogue, just so long will we continue to waste money in this way. When asked concerning the cost of an engineer or superintendent to look after the roads of a county, Mr. MacDonald gave instances to show that, after all, it is not so much the matter of the cost of the skillful man as it is the results to be obtained by his employment. An efficient officer can take the money we are now spending and accomplish

much better results by working under a clearly defined plan.

Henry Haag on Road Drainage.

Mr. Henry Haag, whose name has become a household word in Iowa be-



The above illustration is of the pen of three champion barrows at the 1909 International Stock Show. They were bred and shown by Mr. John Goodwine, of Potomac, Ill. He has thirty bred sows of same breeding for sale. See page 50.

cause of what he has accomplished in Greene county in making better roads, was given a most patient hearing by the convention, while he discussed road drainage problems. In a county where conditions were naturally very unfavorable for road making, owing to the wetness of the soil, the officials of Greene county have, through systematic effort, made the roads of the county renowned throughout the state. This was done first by a system of thorough draining, and by a plan of extensive dragging. Tile drainage has had an important part to play in road improvements in that county. Under the present plan Mr. Haag thought that the dollar did not go far enough and yet he did not hold the trustees responsible for the large waste that attended the spending of money for public highways, because in many instances trustees were elected against their will and they actually do not have the time to give to the work.

Colonel Baker Condemns Narrow Tires.

Colonel Baker, another road expert, whose name is well known because of what he has accomplished in Pottawattamie county, appeared on the program and devoted a considerable part of his time to a discussion of the tire proposition. He condemned in the strongest terms the use of the narrow tire, and demonstrated by facts and figures that under all circumstances a wagon with a four-inch tire is of lighter draft than the ordinary inch and a half tire. He finds in his work of road making that the wagons with four-inch tires really assist him in making roads, while the narrow-tired wagons simply cut them to pieces. He cited experiments conducted at the Missouri station where draft tests were made, and such figures as he presented were favorable to the broad tire.

Frederick Larrabee on Trained Supervision.

The topic, "The Necessity of Trained Supervision," was discussed by Mr. Frederick Larrabee, son of ex-Governor Larrabee. In part, Mr. Larrabee said:

The problem of making roadways for the transportation of people and freight has always been an important one, and in the days before the advent of railways good wagon roads were of great necessity for moving armies and supplies in time of war. We today have not felt called upon to build military roads, as the railroads furnish a much more rapid means of transit.

However, we have seen, as the country becomes more thickly settled, and business increases, the great importance of having good wagon roads. They are vital to the prosperity and existence of any community, and the people living in the cities are as much concerned and perhaps more so than those living in the rural districts.

The vast amount of tonnage carried over our wagon roads in Iowa is almost incomprehensible, to say nothing of other travel, and it is well known that the expense of transportation enters largely into the cost of

all articles which are purchased from day to day in everyday life.

The Highway Bulletin, issued by the college at Ames, in 1905 estimated the amount of heavy hauling to be about fifty-five million tons per

mile per annum, and that, in addition to this, the light hauling and general traffic amounted to about three hundred and fifty million miles per annum.

Now there is no way to estimate the great loss that is caused by broken wagons, harnesses, and delays, due to bad roads, mudholes, and other obstacles. Many times those having goods or produce to sell are unable to take advantage of the prices that prevail at the market centers because of the condition of the roads. It is safe to say the loss caused in this way amounts to hundreds of thousands of dollars each year.

Then there is the use of roads for driving by light wagons, buggies and automobiles.

Man is a social organism and to eliminate this phase of life means demoralization to the race. The worst



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This book tells all about Tanning: "How to care for hides," "How to ship," "Prices for tanning and making coats and robes" and "Our iron-clad guarantee." If you are not satisfied you owe us nothing.
COATS AND ROBES
We have made thousands of fur coats and robes for others, so you are absolutely safe in sending your hides to us. Nearly every farmer knows the "Cowboys." Send for free booklet today.
COWNIE TANNING COMPANY
109 2d Street, DES MOINES, IOWA.



Say, Now, Be Fair About It—
Haven't we all done pretty well the past year? Then let's enjoy some of our success and Get a Low Down Handy Wagon or a set of Low Steel Wheels and make work easier for next year. That's the way to use prosperity. Get our Catalogue.
Havana Metal Wheel Co.
Box 47 Havana, Ill.

Wooden Troughs and Mangers Breed Disease

Wood is porous. It absorbs filth and germs. Grows sour with age. And it can not be thoroughly disinfected. Contagious diseases are readily transmitted from one animal to another by eating and drinking from unclean places.

Concrete Is Much More Sanitary

It is impervious to acids, poisons, germs and weather. Never corrodes. Is dirt-proof, water-proof and fire-proof. Why should any farmer build barn floors, watering troughs, fence posts, silos, houses or anything else of inflammable wood—when he can, with his own hands, construct of concrete—and save money in doing so?



Our farm-building department will gladly show any reader of this paper how to mix concrete and mould it for any structure desired. There is no charge for such service. Our illustrated magazine "Farm Cement News" is also free on request. Write to our nearest office.

UNIVERSAL PORTLAND CEMENT COMPANY

Chicago — Pittsburg
Northwestern Office, Minneapolis
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Annual Output, 8,000,000 Barrels

GLOBE GASOLINE ENGINES

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The kind that live up to their name

We want to tell you about the simple, durable, economical, powerful gasoline engine before you buy. It is designed to "stand up" under long and continuous load.

Globe engines have no weak parts and only the best of material enters into their construction.

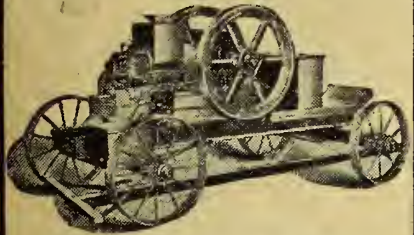


Illustration shows one of our portable types of gasoline engines.

Our catalog describes and illustrates full particulars regarding our full line of Globe stationary and portable gas engines, ensilage and silo cutters, sawing machines, horse powers, etc. May we send you a copy? It's free.

Globe Foundry & Machine Co.
Sheboygan, Wisconsin.

Which is the Better Roof



3 Years After Laying?

A composition of tar paper roofing which dries out in a few months, rots, and is a constant fire menace—or a galvanized, fire-proof Edwards Steel Shingle Roof which outlasts composition roofing six times and wood shingles four times.

Yet Edwards Steel Shingles cost half as much as best cut wood shingles and about the same as high-grade 3-ply prepared roofing.

Edwards "REO" Steel Shingles
Easy to Put On—Cheapest Fire Insurance

Come in stamped sheets of finest Bessemer Steel, 5 to 10 feet long, covering width 24 inches, either galvanized or painted. Can be laid with hammer and nails. No soldering—no tarring—no trouble. \$10,000 Guarantee Bond Against Lightning. We will refund amount paid for our steel shingles if your roof is damaged by lightning.

Buy at Factory Prices. We are largest makers of iron and steel roofing and pay the freight on all Steel Shingles; Plain, Corrugated, V-Crimp Roofing; Imitation Brick Siding, etc. Send for our lowest factory prices delivered, also for free catalog No. 243. Write today.

The Edwards Manufacturing Co.
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YOU DRIVE, The Digger Does The Work!

Here is a wonderful potato digger that you ought to know about. Just ask us on a postal and you may have, postage prepaid, our new catalog. The first buyer in your neighborhood will get a special discount. So write to-day and be the first.

Our elevator digger is the "Hallock O. K." type, famous for many years. We bought the Hallock patents outright 8 years ago, added new improved features, and now it is called the FARQUHAR O. K. ELEVATOR Potato Digger.

It's a "snap" to dig potatoes with this implement. You just boss the job—the digger does the work. Piles potatoes in a row behind you in the best possible condition for marketing. A marvel of simplicity—easy to handle, easy to pull, easy to pay for on our good plan. Write now—to-day—and get our Plan, Price and Catalog.

The "Success Jr." Potato Digger is the one for small potato yields. Our Catalog tells about it.

A. B. FARQUHAR CO., LTD.
Box 207 York, Pa.

PROGRESSIVE Tile Machine

Save money by making your own TILE. Only small capital required. All kinds of

Concrete Machinery and Gasoline Engines

Attractive Prices

Catalog I tells everything; sent free.

UNIVERSAL CONCRETE MACHINERY COMPANY
Federal Bldg.,
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WANTED—Good man for general farm work; good wages for right man. In answering, state experience and wages expected. None but first class need apply. Fred McCulloch, Hartwick, Iowa.

punishment that can be given a man is solitary confinement.

A favorite topic for discussion nowadays is "How to Keep the Boys on the Farm." You can lecture or write poetry as your inclinations lead, tell how much better off one is on the farm than in town, you can talk till the cows come home, and it will make no difference. People will live on the farms when the conditions are such that they prefer to live there, and good roads will do more towards making a contented people, both in town and out of town, than almost anything else today.

There is no occasion for being discouraged, for it is only a little over fifty years ago that Iowa became a state, and our people have had many things to occupy their time, in subduing the wild prairies and making a living. One of our United States senators said one time, that "Civilization and mud go together," and so we should have no regrets as to the presence of mud.

However, the care of our highways in Iowa is a proposition of such large proportions that we should now enter into the consideration of this matter in earnest and, if possible, adopt a system for the control of roads and highways that is in accord with a business of this size.

We collect and expend approximately five millions of dollars each year in Iowa for road purposes, we have over two millions of people who are stockholders in this great highway system, and with a business of such magnitude, are they not entitled to have for its administration a well-organized department?

They seem to have been confronted with similar conditions in England many years ago. In McCauley's "History of England" we find the following:

"One chief cause of the badness of the roads seems to have been the defective state of the law. Every parish was bound to repair the highway which passed through it. The peasantry were forced to give their gratuitous labor six days in the year. If this were not sufficient hired labor was employed and the expense met by a parochial rate.

"That a route connecting two great towns, which have a large and thriving trade with each other, should be maintained at the cost of the rural population scattered between them, is obviously unjust, and this injustice was particularly glaring in the case of the great North Road, which traversed very poor and thinly inhabited districts and joined very rich and populous districts, and this grievance attracted the attention of parliament, and an act, the first of the turnpike acts, was passed."

Our weakness at present is in the system and not the men who are engaged in road work. We should have a system somewhat corresponding to the engineering department of the railroads:

A state highway commission composed of skilled road men.

A county or district engineer to have charge of a certain territory.

A township or district superintendent.

The township superintendent should be under the supervision of the county engineer, and the county engineer and township superintendent under the state highway commission. These offices would correspond to the chief engineer, division engineer and section foreman of the railroads.

John W. Foster on Fixed Percentage.

Mr. John W. Foster, of Guthrie Center, discussed the question of appropriating a fixed sum of money for a specific levy for dragging the roads. Among other things he said:

We already have a compulsory drag law, and there is money enough. Over \$50 is expended annually by the road officers of Iowa for every mile of road within our borders, and more than \$20 per mile of these funds pass through the hands of the township trustees. Reliable men, who have actually tried it, assure us that \$5 per mile will drag well a mile of road regularly throughout the entire year here in Iowa, and yet this necessary work is neglected, and in some instances trustees have boldly defied the law by resolutions declaring that they will not drag at all. Attorney-General

Byers, in a recent letter to county attorneys of Iowa, says that good roads are largely a matter of law enforcement. I quite agree with him that the enforcement of our present compulsory drag law would work wonders, but the compulsory drag law, like other new laws, will bear a little strengthening and improving. Last year, when our county attorney started in to enforce the drag law, a good many trustees claimed to be out of money, having used their entire allowance for building grades, buying road machinery, etc., and not having reserved any part of the one general road fund at their command for this specific purpose. That trustees will do it again and again suggests my subject, "Setting Aside a Fixed Per Cent of the Township Levy for Dragging the Roads," or, in other words, providing a special fund to carry into effect this compulsory drag law. When money is to be expended it should be done with some sort of sense and system.

My attention was recently called to the accounts kept by a great railroad company. Their books showed the cost of the road, cost of equipment, cost of maintenance, operating expenses, etc., and all of these different items were again divided and subdivided into numerous classifications.

Now, how about the business of building and maintaining roads by township trustees? Why not analyze this business and put it on the same basis? The law provides but one general township fund, and this fund, as a rule, is expended in a hit-or-miss way with just such results as might be expected from any undertaking which is without plan or purpose. In every township we have three trustees and one or more road superintendents, making a total of seventy-five or eighty petty road officials in the county, and 7,000 or 8,000 in the state. They work without uniformity of plan or coherence of purpose. They are as ineffective as a mob without a plan or a leader. Why not furnish these officials at least a plan of action? Why not start out by dividing this general fund into, say, a "township drag fund," out of which the bills for dragging shall be paid; a "township bridge fund," out of which bridges and culverts shall be paid for, and a "general fund," out of which all other classes of bills are to be paid? I do not claim that this is a perfect classification, but it is a natural one, and it has the merit of being about as simple as the farmer's shot-sack method. It is in line with sound business methods, and it is in accord with the American system of administering public funds in general.

We might as well talk about an educational system which failed to provide teachers and a fund from which to pay them, as to talk about a dirt road system without providing road drags, and a fund that will insure their use with religious regularity. I therefore strongly favor, not an increase of the ordinary township levy, but that a part of what we now have be segregated for the specific purpose; that is, let a fixed proportion of the township levy be set aside by law for the purpose of dragging the roads.

Mr. W. R. Lewis Talks Dirt Roads.

Judge W. R. Lewis, of Montezuma, Iowa, was on the program to discuss the question of dirt roads for Iowa. Among other things Mr. Lewis said:

A road with every other mile bad feels too much like one with all the miles bad; the quality and efficiency of a road, like the strength and efficiency of a chain by its weakest link, are fixed by its worst mile. No matter how good some of a road may be, the load which a team of horses can haul over it is limited to that which it can haul through the worst mud-hole or over the steepest hill. When

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And dollars saved is money easily earned. The spring rains are coming and if your roofs need attention now is the time to get at them.

The roofing to use is



because it is tough, pliable and easy to lay. Needs no painting or after attention, it is coated both sides with flaked mica which protects the roofing from sparks and lightning, no rain or wind can blow it off, no heat, no matter what the climate, can melt the asphalt waterproofing.

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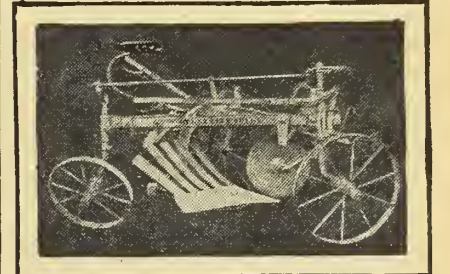
The book gives valuable information about roofs and roofing problems, the samples will show the make-up of Galvanite and to know its merits, test the samples every way you can think of, then you'll decide in favor of Galvanite.

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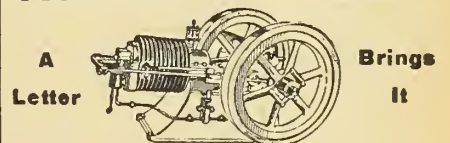
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A PLOW that will run 25 per cent lighter than the solid mold board—will scour where a solid mold board fails—and turn a much better furrow. If interested write us for free catalog, showing the entire line of plows we build—with full particulars where our plows can be bought, with prices, etc. Let us hear from you. We can do you good.

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IT IS LIKE THE
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IT'S DIFFERENT. No money down nor deposited in a bank. Just write a letter or n card and you can have a GADE 30 days for FREE TRIAL. The GADE is made on scientific, common-sense principles. The only practical air-cooled engine on the market. Sold on its merits. Write today for the GADE PLAN.

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Make Your Own Rope



The handiest little machine ever invented for farmer or stockman. Make your own rope from binder twine at two cents per halter rope or cow tie. Stronger than factory-made rope. Always ready and can be used at any time. You can make a halter rope or cow tie in three minutes. Any size or length. Send \$1.50 for a machine. Weight only four pounds. Agents Wanted.
E. O. Berg Mfg. Co., Madison, Minnesota.

Lightning Pitless Scales

New Pattern. Solid Channel Steel Frame
Channels are seven inches which is the height of platform from ground. Levers are octagon in shape giving greater strength. Bearing are Toolsteel. This Scale will last a life time with ordinary care. Equipped with compound Beam Free. Furnished absolutely complete except platform planks. Guaranteed accurate and tested to more than its capacity. Write for our prices and description before buying.
KANSAS CITY HAY PRESS CO., 226 Mill St. Kansas City, Mo.

we have made one mile of the road good, we have demonstrated that we can make all of its miles good. The year that we are able to work together, on the same plan, at the same time, all over the state, the victory for the Iowa dirt road will have been won. We shall then have, within our reach, not only a river-to-river road, but many roads, both ways across the state, through every county, so marvelously good as to utterly astonish one who has not looked beyond the results of past effort.

Under the law, then, as under reports to this convention, of the uniform results of actual tests, one method, at least, for the treatment of dirt roads in Iowa, is made mandatory; they must be dragged. Dragging is absolutely essential to the building of dirt roads in Iowa soil as well as to their proper maintenance.

Charged, as the boards of supervisors are, with the general supervision of all roads, and with the duty of seeing that the laws in relation to them are carried into effect, no organization, or preparation by them, for road building is complete, or appropriate, which does not include and start out with the most efficient plan and means for insuring the regular, timely and systematic use of the drag, by the township trustees in all the townships of the county.

As too many cooks spoil the broth, so, likewise, too many bosses spoil the roads. With all that we have done, trying to kill off the old dirt-trail microbe, he is still working.

If we are to have good dirt roads, easy as this achievement is, the boards of supervisors must take up the baton and direct and time the work for dragging.

There are difficulties to be met, both by the county supervisors and the trustees. Right conditions for best results from dragging so limit the time for doing the work that it must be done by many, by residents all along the line, working at the same time, and farmers are slow to undertake it, for it must be done, no matter what the press of farm work. There is no possible escape; this work must be done everywhere, every time when it will do good, and it must be done everywhere, every time, when the condition as to moisture is just right. If you drag an Iowa dirt road according to this prescription, it will never be a bad road; if you do not, it will never be a good one.

If this could be done just one year, all difficulty would be ended, as the result would make it impossible to abandon it. In such event, if one found the road good one place, he would find it good every place.

The convention was lively from start to finish, and spirited discussions were taken part in following each assigned address. At the close of the convention a permanent road organization was formed, with Lafayette Young, of Des Moines, as president, and Thomas H. MacDonald, secretary of the Iowa Highway Commission, as secretary, together with a vice-president from each county in the state.

A Separator With an Unlimited Guarantee.

The advertisement of the Monarch Cream Separator on page 17 of this issue sets forth some facts of interest to farmers. It asserts that the farmer who raises pure-bred Short-horns or Holstein-Friesians exclusively can raise better steers and cows than if he mixes the grades, and continues by arguing on the same basis that cream separators made by a firm which confines its efforts to that one line can be produced to greater perfection than by the general manufacturer. The Monarch separator is sold on a thirty days' free trial and all expenses paid if it fails to skim closer, run or wash easier or prove a better all-round separator than any in the neighborhood. Prices which are also attractive are given in the catalog, for which address the Lisle Manufacturing Company, 845 Main St., Clarinda, Iowa.

Gopher Death.

Gopher Death is the name of a scientifically prepared remedy manufactured by the Fort Dodge Chemical Co., Fort Dodge, Iowa. You know full well what a pest to the farmer of the middle West is the pocket gopher. You know, also, what a relief it would be to you to know you had found a prepa-



Kills Prairie Dogs and Gophers of all kinds. Endorsed by State Experimental Stations. 1400 tablets prepaid for \$1.25. Warranted. Rat-killer Tablets, 25c. Ask druggist or send direct. Booklet Free. F. D. Chemical Co., Ft. Dodge, Ia.

LANDS AND HOMES FOR SALE

WASHINGTON LANDS

This is a proved farming country, and you don't have to guess or hope you will get a crop; the soil and climate take care of that, and they can't be beat. These farms are sure producers of grain, fruit and vegetables. When you buy of us, you deal with owners.

A COUPLE OF GOOD AVERAGE CROPS ON ONE OF OUR FARMS WILL PAY FOR THE FARM.

That's a strong statement to make, but true just the same, as you will find if you investigate for yourself. Our lands are within three miles of new railroad, close to towns and sidings, and each one is a bargain.

Write for sample of grain, map, and information FREE if you mention this paper. Write today. This advertisement will appear but once.

The Day & Hansen Security Co., "R" 512 Columbia Bldg., Spokane, Wash.

Refer to
**OLD NATIONAL BANK,
EXCHANGE NATIONAL BANK, OF SPOKANE.**

LAND SALE

Did you ever own a farm in the blue grass, corn and clover belt? Did you go a little too far? If so, write me. I have corn, clover and blue grass land in northwest Missouri, temperate climate, good improvements, 365 acres, rich soil, fine home, modern improvements, water system, barns and corn cribs, scales, hog-tight fencing. All extra good. Three and one-half miles from town. Possession now. Easy terms. 367 acres, grain farm, rich soil, 7-room house with cellar, three porches. Two large barns, large corn crib, scales, other outbuildings, hog-tight fencing, 3 1/2 miles from town. Easy terms, 5 1/2 per cent interest. Schools and churches paid for, low taxes, good market towns and railway facilities. State and soil map free. For full particulars write,
**BAZEL J. MEEK, Owner,
Chillicothe, Missouri.**

Sunny Alberta's Fertile Valleys

You can now secure a farm in these rich valleys direct from the Railway Co. at \$9.00 per acre up, on most liberal terms. Delightful climate, mild open winters, plenty rainfall. Millions of acres to select from. Close to railways, good towns, well settled districts. Next excursion Tuesday, April 5th. Round trip rate \$29.00. Write at once for booklets, maps and reservation in Canadian Pacific Private Car "Calgary."

Colonization Dept.
**Canadian Pacific Railway
GUNDY & GUNDY, Gen. Representatives
605-6 Fleming Bldg. Des Moines, Iowa**

400 ACRES

AN opportunity of a lifetime; think of it; a fancy 400-acre farm, almost suburban property now; only five miles from Kansas City, Missouri, south; 3 miles from land selling at \$1,500 an acre, on which they are building \$10,000 and \$20,000 residences. Almost all fine land in blue grass, timothy and clover. Plenty of running water. It will make the best possible dairy and stock farm, and in less than ten years will sell for \$1,000 an acre. Only one-quarter of a mile from the best rock road, leading direct to the business center of the city. Kansas City has now 450,000 people. The man who reads this advertisement and says, "I will look it up in a few days," is the man who will lose out. Nothing like it; write immediately. Only \$175; one-half cash, the balance at 6%.

**J. H. LIPSCOMB,
302 Fidelity Trust Bldg., Kansas City, Mo.**

IOWA FARMS

OUR 1909 new illustrated catalog of improved farms in Iowa and other states is ready. Be sure to send for it if you want to buy or exchange for land. Also have some good income and other property for sale and exchange.

**NORTHERN IOWA LAND COMPANY,
Independence, Iowa.**

FREE 200 PAGE BOOK ABOUT MINNESOTA

COMPILED by the state, describing industries, crops, live stock, property values, schools, churches and towns of each county, and Minnesota's splendid opportunities for any man. Sent free by
**State Board of Immigration,
Dept. N State Capitol, St. Paul, Minnesota.**

AGREAT BARGAIN

FOR SALE—166 acres, 4 miles from town; level; unimproved; well drained; no waste land; close to school; no ditch tax; price, \$9,000; mortgage, \$5,000, 5%. This land will double in value. Write for complete list, maps, plats, etc. We are offering an exceptionally fine list of improved corn and alfalfa farms. **C. A. Caldwell, Onawa, Iowa.**

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also 1/4 section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

ration that would surely rid your farm of these little animals. Gopher Death will do this. Mr. J. R. Milne, Forbes, Mo., says: "I have been fighting gophers for twenty-eight years and have tried about everything, and find your Gopher Death is ahead of all else for ease of application, and certainty of execution." We feel sure you will have the same results. Write the Ft. Dodge Chemical Co., Ft. Dodge, Iowa, for further information. See their advertisement on this page. Mention this paper when you write.

IRRIGATED LAND \$40 TO \$50 PER ACRE

In the Bear River Valley located in the northeast part of Utah. This is not desert, but ranch land that has been under cultivation and irrigation for years. Fences, buildings and other improvements go with the land; 5,000 acres to be sold in any amount desired. Large amount seeded to alfalfa. The water supply is assured. The irrigation system complete, fully paid for and in successful operation for years. The soil is rich, producing good crops of alfalfa, timothy, wheat, oats, barley, rye, potatoes, etc. Local markets and close to Salt Lake City, Ogden and Denver. The climate is perfect. At \$20 to \$50 per acre this is a land bargain you cannot afford to overlook. Write for full particulars.

**QUINLAN & TYSON,
106 Dearborn St., Chicago, Ill.**

YAKITAT— YES—In the Yakima Valley and Lots \$30.

Buy a lot in Yakitat where you might do as other have done out here. One man made 1200 per cent in eight years in one western town; another the same in six months. We expect a great deal from Yakitat. On the main line of the Northern Pacific Ry. In the famous Yakima Valley; the center of 500,000 acres of the best fruit land that will soon be irrigated. Starting now. Send for literature. You may pay \$5 down and the same monthly until paid. **E. B. Butler, 1179 Am. Bank Bldg. Seattle, Washington.**

**60 Bushels of Wheat to the Acre
100 Bushels of Oats to the Acre
MONTANA, DAWSON COUNTY.**
No Blizzards, no Cyclones, the most productive soil in the world—The purest of water. We own 30,000 acres choice agricultural lands. One crop will more than pay for your land. Free fare to all buyers. \$12 to \$20 per acre.
**ST. PAUL LAND CO.,
232 Endicott Bldg., St. Paul, Minn.**

... BUY ... South Dakota Land

KADOKA, STANLEY COUNTY.
RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gilt-edge farm mortgages for sale. For description, write
F. E. Reidinger Land Agency, Kadoka, S. D.

HOMESEEEKERS
SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address
The Allen Co. Investment Co., Longton, Kan.

FOR SALE 400 acres at \$20 per acre; mostly level; tillable alfalfa land; living water; 2 miles from town and railroad; no improvements, and cut \$800 wild hay, 1909. 335 acres at \$22.50 per acre; mostly level, tillable alfalfa land; living water; 3 miles from town and railroad; no improvements; yields \$800 wild hay yearly. Lee Card, Chadron, Neb.

You can make \$3,000 in 3 months raising vegetables in Florida. Write for our book of FACTS. **Florida Land Co., P. O. Box 500, Chipley, Florida.**

SOME VERY CHOICE AND WELL-IMPROVED FARMS
FOR SALE, on easy terms, at \$35 to \$40 per acre. Land located in the very heart of Minnesota's best farming country. For particulars write Julius Thorson, with Security State Bank, Benson, Minn.

FOR SALE 165 acres of Southeast Missouri land. Eight miles from Sikeston, Missouri. Forty acres cleared; balance log timber. For further information, write **L. C. COURTNEY, BOAZ, ILLINOIS.**

Buy Corn Belt Lands In the Famous Montevideo black loam prairie district of S. W. Minnesota. \$30 per acre and up. Free pictorial and descriptive price list. Address **E. H. Crandall, The Land Man, Montevideo, Minn.**

When writing mention this paper.

WESTERN CANADA

What Governor Deneen, of Illinois, Says About It:

Governor Deneen, of Illinois, owns a section of land in Saskatchewan, Canada. He has said in an interview: "As an American I am delighted to see the remarkable progress of Western Canada. Our people are flocking across the boundary in thousands, and I have not yet met one who admitted he had made a mistake. They are all doing well. There is scarcely a community in the Middle or Western States that has not a representative in Manitoba, Saskatchewan or Alberta."

125 Million Bushels of Wheat in 1909
Western Canada field crops for 1909 will easily bring \$170,000,000.00 in cash. Free Homesteads of 160 acres at \$3.00 an acre. Railway and Land Companies have land for sale at reasonable prices. Many farmers have paid for their land out of the proceeds of one crop. Splendid climate, good schools, excellent railway accommodation, low freight rates, wood, water and lumber readily obtainable. For pamphlet "Last Best West," particulars as to suitable location and low settlers' rate, apply to Sup't of Immigration, Ottawa, Canada, or to the Canadian Government Agent. (5)
**W. V. Bennett, Bee Building,
Omaha, Nebraska, or E. T. Holmes, 318
Jackson St., St. Paul, Minn.**

A GUIDE TO THE LAST WEST

THE 1910 EDITION IS NOW READY. Send for a free copy. It describes our 100,000 acres choicest Farming Lands in the Tramping Lake and Houghton Lake districts of
Western Canada

It tells you how to secure a home or to make a profitable investment; tells of the great crops, low prices, easy terms; of the many reasons why you should investigate NOW, before it is too late. Our private car, the "IENZA," goes the 1st and 3d Tuesdays each month. We save you money on Fares, Meals and Berths. Write today for our free "Guide." Don't put it off. Address our Main Office, 240 Germania Life Building, St. Paul, Minnesota.
L. USELAND & DEVELOPMENT CO., Ltd.

IOWA FARMS Thirty well improved farms in counties, Iowa, for sale cheap. Desiring to retire from active business, I want to sell these farms during the summer of 1910. These farms range in size from 80 acres to 640 acres. They are mostly tiled out and have good improvements on them. Will take a small farm as part payment on my 400 to 640 acre farms, if put in on cash basis. I also have several sections of Canada, Minnesota, North and South Dakota lands which I want to sell. I am also agent for some men that want to trade their equities in their Dakota and Iowa lands for hardware, implement, harness or furniture stores, in which good deals can be secured. No lands in Iowa are as cheap; no lands in the world are better than these Iowa lands. I also have the agency of a large list of local farms for sale not listed in booklet. Write to or see **C. S. Allen or C. S. Allen Land Company, Laurens, Iowa.**

OREGON 1910
Is the Time
Railroad Development the Reason
FREE Richly Illustrated Booklets from all parts of Oregon, telling of FRUIT GROWING, FARMING, DAIRYING and other opportunities.
ASK QUESTIONS
PORTLAND COMMERCIAL CLUB
PORTLAND, OREGON
IS THE PLACE FOR YOU

Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana in Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit, truck grown all year, poultry and dairy paradise; soil adapted to great variety of crops. NO IRRIGATION SCHEME, 60 inches annual rain fall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Something growing always, chickens hatched all seasons. Live stock requires no shelter. Write today for free booklet. **J. D. LeBrie, Gen'l Land Agent Pinebluff, La. Co., 533 Keith & Perry Bldg., Kansas City, Mo.**

LAND OPENING

IN the famous Arkansas Valley, Colorado. Our irrigation system is one of the best, and our land as fertile as any in Colorado. A reasonable number of tracts now offered at \$30 per acre, with perpetual water right, on terms without interest. This land will quadruple in value within a few years. Close to R. R. and markets. Your railroad fare refunded if you buy. Write for map and booklet. Arts wanted.
**MONSON & MALCOM REALTY CO.,
300 Kittredge Building, Denver, Colorado.**

RECEIVER'S SALE The entire Creamery machinery, building and grounds known as the Lone Tree Creamery, Brown County, Minnesota, will be sold by the undersigned receiver at a private sale within the next thirty days. Equipment first class and in clean running order, located in one of the richest farming sections of Southern Minnesota. Address all communications to
J. C. Jackson, Receiver, Morgan, Minn.

INVESTIGATE 320-acre stock and grain farm, Vernon Co., Missouri; 240 acres prairie land; 80 acres timber land; 190 acres corn meadow, remainder good pasture; all good, gently rolling land; black, sandy loam; living spring water; good fences and orchard; house and barn for tenants. Price way below its value, \$30 per acre. **Palm Realty & Inv. Co., 620 Scarritt Bldg., Kansas City, Missouri.**

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

\$27⁹⁰ to \$42⁵⁰

The Lowest Prices Ever Quoted for Practical Dairy Separators.



We do not advertise or sell small capacity kitchen separators made to set on a table. Some dealers are representing such toys as practical dairy machines. Our Economy Chief Separators are all big, strong, solid, substantial machines, built for the business of dairying, guaranteed to do the work and produce the profits. Every one is mounted on its own solid base and is of the finest and most substantial construction. Even the smallest Economy Chief, at \$27.90 complete, has a skimming capacity of 300 pounds, or 145 quarts per hour. It will skim any quantity from 1 gallon up. Sixty days' trial to every buyer. Fill out this coupon for our free Dairy Guide, the book that tells you all about the Economy Chief Separator.

Sears, Roebuck and Co., Chicago, Ill.

Please send me your free Dairy Guide.

Name _____

Postoffice _____

R.F.D. No. _____ State _____

P.O. Box No. _____ Street and No. _____

Iowa Homestead _____

SEARS, ROEBUCK AND CO., CHICAGO

CHEAP
FARES
SOUTHWEST

Now is the time to make a trip to Oklahoma or Texas and see for yourself the opportunities that abound on every hand—chances that cannot last long as the country is being settled rapidly.

On the First and Third Tuesdays of each month excursion tickets are sold at especially low rates to Oklahoma and Texas with privileges of stop-overs. Such a ticket enables you to visit a large section of country—seeing for yourself what the Southwest offers. Will you go now, or wait longer until land prices advance to the top notch and the opportunities are all snapped up? Probably I can help you decide—at any rate write me for some literature and further information about the Southwest. 62

W. S. ST. GEORGE, G. P. A., St. Louis



A PLEA FOR THE SOIL CORN TESTERS.

To the Editor of The Homestead:

After reading the article "Testing Corn in Water or Sawdust—Which?" in your paper recently, it occurred to me that this might discourage some farmers who have not heretofore tested their corn, but who intend to do so this spring. Judging from the article referred to, it would be useless to test corn unless one had a water tester. In regard to sawdust testers, the article states: "The system is entirely wrong especially in a year like this, and the farmer is throwing away his best seed and saving his poorest." It ends as follows: "The sawdust tester, if it does anything besides pick out dead ears, causes the farmer to plant the weak, starchy corn, which, while it will grow, will not stand a cold wet spring or late frost." Taking it for granted that weak, starchy corn sprouts first and hard, oily kernels a day or two later, I fail to see why this cannot be determined as well in soil as in a water tester. This difference is noticeable in the field, why not in a soil tester if conditions are the same or nearly so? When a sample after being in the test box nine to twelve days, shows a good stalk to every kernel, and three or more roots, I am confident that that ear will show a like result if planted in the field. I do not stop to worry whether that ear had starchy or oily kernels; there can be no deception whatever if one will only have patience and give the corn time to germinate. I have never used sawdust as I believe soil is better. Have tested corn this way five years and have learned among other things not to take the corn out of the box too early. Let the stalks get to be at least an inch long and by that time you will find the weak ones away behind. I have not a word to say against the water tester, but it will be some time before its use becomes general. In the meantime shall we plant untested seed? I believe testing should be encouraged, especially this spring of poor seed. Let the farmer test any way he can; if he has a water tester, all right, if not, get busy with a box and some soil, remembering he must have moisture, heat and air, not only one or two, but all three, make the conditions as near like field conditions as possible, and he can't go wrong. Some methods of testing will necessarily be used which seem out of date to the corn specialist, but after all it is better than guessing. Ole Seveck.

The Fair Play Advocate says this is a copy of a sale bill sixty-three years old: "State of Missouri, county of Pike—To Whom It May Concern: The undersigned will Tuesday, September 29, A. D. 1846, sell at public outcry for cash on premises, where Coon creek crosses on the Missouri road the following chattels, to wit: Nine yoke of oxen with yoke and chain, two wagons with beds, three nigger wenches, four buck niggers, boys, two prairie plows, twenty-five steel traps, one barrel pickled cabbage, one hoghead of tobacco, one lot nigger hoes, one spinning wheel, loom, three fox hounds, a lot of coon, mink and skunk skins and a lot of other articles."

Seed Corn Tests are Discouraging.

Seed corn tests over the state of

Dollars Made in Sawing

With this powerful two Horse-Power Fairbanks-Morse Gasoline Engine and Saw Rig. It is a wonderfully fast worker—saws through hard wood with ease, and fairly flies through soft wood and poles. With this outfit you can saw about 13 cords or more of wood per day, and the only expense will be a few cents for gasoline—less than one-sixth of a hired man's wages. Then your neighbors must have their winter's supply of wood, and it's so quick and easy to make money with a reliable Fairbanks-Morse outfit that it's like throwing away dollars to be without one.

It's a high grade outfit, and you can depend on it under all conditions. No other engine has so much extra horse-power or is so strong and durable, while the price is so reasonable that every farmer can own one.

Mention this publication and send at once for our 64 page Engine Book No. HA603



Engines, Electric Light Plants, Feed Grinders, Windmills, Pumps, Pump Jacks, Belting, Roofing, Shattering, Fallies, Fittings and Hose, Fairbanks Scales.

Fairbanks, Morse & Co., Chicago

Or address nearest of our 27 Branch Houses

Boost Your Profits On Live Stock



Keep your farm animals up to the top notch of producing power by putting them in condition to get the most good out of every ration. Feed is high. Reduce that average of 20% waste which passes through the animal undigested.

Prussian Tonic Concentrates

is the latest and greatest aid to scientific feeding. It is all tonic. No useless "filler" in this remarkable compound. Only pure, healthful drugs, to be given in small portions, making it the most economical stock conditioner ever offered. It is producing wonderful results, big profits, for Farmers, Breeders, Feeders and Team Owners in all parts of America. See their letters and reports in our book.

Because it strengthens the stomach and induces a free, natural flow of digestive juices, it insures the thorough digestion and assimilation of the feed. This means more flesh, muscle, sinew and mettle for horses, more body-building and milk-making nourishment for cows, more flesh, in less time, with less feed, on your hogs.

Prepare Horses For Spring Work

The hard season of plowing is here. Put your horses in shape to stand the severe strain of spring and summer work by giving them Prussian Tonic Concentrates. It will keep them "up and doing" every minute, make the skin loose, the coat sleek, the eye bright, insures market value in case you wish to sell.

Get Trial Package and Free Book

Send coupon or postal now for liberal trial offer and our valuable Live Stock Book—Free. We will send you the book and an order on our dealer nearest you, which with only 10c is good for a full 25c package, enough for 20 days' treatment of a horse, cow or hog. We will also tell you how to get a Fine Map of Iowa Free. Fill out coupon and send by next mail. Or a postal will do.

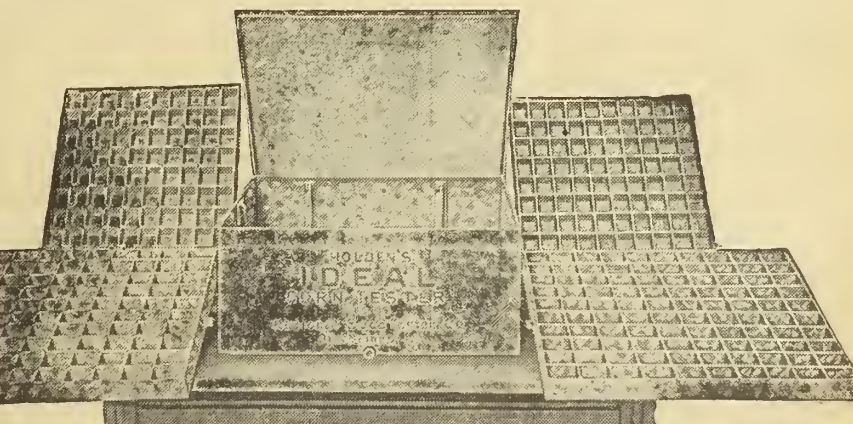
PRUSSIAN REMEDY CO.
20 E. Chicago Ave., St. Paul, Minn.

Prussian Remedy Co.
20 E. Chicago Ave.
St. Paul, Minn.

I want to try Prussian Tonic Concentrate for _____
(State Horse, Cow or Hog)
Send me your complete book and order on dealer at _____ for a trial package.

Name _____
Address _____

Iowa are proving very discouraging. On a whole it is estimated that not more than 50 per cent of the corn tested is fit to plant. In some instances, at least, 90 per cent of the corn is dead or very weak. The majority of the tests over the state are being made by the Holden corn tester which is very accurate. At Council Bluffs the results from Pottawattamie county showed 43 per cent strong, 15 per cent weak and 42 per cent dead. At Fort Dodge, 60 per cent of the corn was fit to plant. At Albia 25 to 60 per cent will not grow. Beaconsfield farmers are expecting to plant their 1908 crop as only 20 per cent of the 1909 crop has been found will grow. Reports from Spencer indicate that 60 per cent of the seed corn of Clay county is dead. Maquoketa reports that farmers in Jackson



CUT OF HOLDEN'S IDEAL TESTER SHOWING A PART OF THE TRAYS.

county are discouraged in finding upon testing their corn that only about one-sixth will grow. Shenandoah advises that corn in Fremont and Page counties which was picked early or before the December snow is in good condition. Tests made at Manchester show that the corn in that vicinity lost fully 75 per cent of its germinating qualities during the early fall freezes. Advice from Sioux City indicates that farmers are not concerned about their crop, although tests in Woodbury county show that 40 per cent of the corn is not fit for planting. Farmers around Grimes have found that they must depend on the 1908 crop, as the best ears of the 1909 crop do not show the proper germination power. Out of twenty-nine cribs in the vicinity of Charles City it is found that only 25 per cent of the corn will sprout. Farmers in the vicinity of Lamoni, Iowa, decided after tests not to risk planting their home-grown seed of last year. The most of

them will buy old corn or import from responsible dealers. In the vicinity of Adel, Iowa, corn is very poor, tests showing that it ranges from 10 to 50 per cent good. Tests at Rock Rapids indicate that corn is not up to the standard in that locality, although the farmers are getting some good corn off the stalks in fields where the corn has not been husked. Only 34 per cent of the corn tested at Belmont germinated. The average at Estherville for Emmet county was in the vicinity of 60 per cent fit to plant. Eldon reports farmers, after testing their corn, find it very poor. The results reported from Corning do not differ from the foregoing. Twenty-one individual tests at Milford indicate that only 35 per cent of the Dickinson county corn will do to plant. Reports from Plover, Iowa,



Skin Games of the Horse Market

IT IS not enough to keep your eyes open when you buy a horse. You must know in advance the tricks and dodges—the smooth games—of “Gyps” and dishonest horse-dealers. This price-less information is given in

“Horse Secrets”

An invaluable book for every man who owns, buys or trades a horse.

“Horse Secrets” reveals in plain language the swindler's secrets of “shutting a heaver,” of “plugging a roarer,” of producing artificial plumpness, of hiding lameness, broken wind, bad eyes and ears, poll evil, glanders, etc.—of hiding a spavin; the secret of “bishopsing” (altering an old horse's teeth to make him look young); of bogus pedigrees; of false measurement; of fake auctions and sales. It tells about the “Widow” trick, “Ginger,” and scores of other sharp practices. It will put you on your guard. And it gives helpful secrets—by which you can legitimately fatten and market your horses at less cost; secret of hand-raising a foal; secret of fattening drafters for market; secret of silage feeding to horses; secrets about curing vicious vices—balking, halter-pulling, tail-switching, “cribbing,” and many others. Gives a complete list of market terms and their meanings, and of stud books approved by the Government.

Farm Journal

is a constant source of help and economy to the practical horse-breeder, farmer, stock-raiser, poultryman, gardener, trucker, the woman folks, the boys and girls. It is worth far more than the price asked for it and “Horse Secrets” together. It is unlike any other paper. Full of sunshine, wit and gumption. Has 700,000 subscribers scattered all over the land. You must be one of them.

SPECIAL OFFER:—Farm Journal 2 years and “Horse Secrets” for only **50c**

Farm Journal

1023 Race Street Philadelphia, Pa.

“SAVE THE HORSE” SPAVIN CURE.



WAR DEPARTMENT.

Office Purchasing Commissary U. S. Army.

Saint Louis, Mo., Nov. 17th, 1909.

Troy Chemical Co., Binghamton, N. Y.

I have great faith in your medicine. I cured a bad tendon on a horse which had been fired and seemed beyond all hope. I also cured a sprained tendon in another horse within two weeks.

CAPTAIN J. N. KILLIAN, 3d & Olive Sts., Commissary U. S. Army.

FREEDOM FIRE DEPARTMENT

Troy Chemical Co., Binghamton, N. Y.

Freeport, L. I., Nov. 29, 1909. Enclosed check for bottle “Save the Horse.”

Every horseman around here thought horse was incurable, but do this so now. Here is what I have done with “Save the Horse,” and some of these cases were cured two and three years ago, as you know, and are cured to-day. In fact, I am not afraid to undertake any case without the guarantee.

The first case was a gray mare with bone spavin, over three years' standing. So lame everyone thought she would never go sound again. In six weeks' time she did not take a lame step. Let her to the Freeport Golf Club every week day.

The next case was a fine blooded horse with ringbone, belonging to a friend. In two months' time he did not take a lame step. Also cured a Polo Pony who was hardly able to get out of the stable, both hind legs affected with the worst bone spavin I ever saw. Bought him for ten dollars, and everyone said I would have to saw off his legs and have new ones made. The whole hock was affected. He had been fired and blistered three times. I used “Save the Horse,” and in ten weeks' time you would not know that he had ever been spavined, except for the marks of the firing iron. Have also cured a fine saddle horse of thoroughbred.

Will be glad to see anyone regarding these cases. CARL DAKENBERG.

\$5.00 Sent for copy, booklet & letters from business men & trainers on every kind of case. Permanently cures Spavin, Thoroughbred, Ringbone (except low), Curb, Splint, Capped Hock, Windpuff, Shoe Blisters, Injured Tendons & all Lameness. No fear of loss of hair. Horse works as usual. Dealers or L. & P. sent.

TROY CHEMICAL CO., 3 Commercial Ave., Binghamton, N. Y.

LAME HORSES

quickly and positively cured of Sprains, Ringbone, Curb, Shoe Blisters, Capped Hocks, abnormal growths and all lameness, with

REMOV-ALL

Sold on money-back guarantee. Leaves horses sound and unscared. Lump Jaw is cured in less than three weeks with

Adams Rapid Lump-Jaw Cure Easy to use. Guaranteed. Write for FREE TREATISE on curing these diseases.

H. C. ADAMS MFG. CO. Dept. 14, Algona, Iowa



PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of “neighbors.” Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

TETANUS.

I have a bay horse, four years old, that has something wrong with him. He seems to be stiff all over and walks as though afraid he would run into something. I think he can't see very well, part of the time. When he wants to look at some object it seems like his eyes turn backward. I have noticed at times his eyes would be turned so far backward that they could hardly be seen, that is, they would turn back and forth. He holds his head straight with nose slightly forward. He is quiet, but eats well. I turn him out in the day-time and keep him up at night; feed about seven ears of corn night and morning, and timothy hay. I have not worked him the last three weeks. He has been in this condition four or five days. It came on him gradually. I could not notice much difference the last twenty-four hours. Please tell me what is the trouble and give cure, if any.

The horse has tetanus (lockjaw) from invasion of a wound by the bacillus of that disease. At the time you wrote the teeth had not locked. That does not always happen, but it may have come since you sent in the report. The horse should be confined to an airy, darkened, secluded box stall and be fed soft feed and have all the pure, cold water he wants. Recovery sometimes takes place in time without treatment other than keeping the horse perfectly quiet. A veterinarian should be employed if the symptoms aggravate.

BRAIN TROUBLE.

My horses have been running in a cornstalk pasture since December 23d. One morning the latter part of January I found my black gelding, coming two years old in the spring, standing on a small patch of ice, trembling. I went and got him off and to the barn. He seemed to be blind in left eye and acted wild. I got a halter on him and tried to lead him inside the barn (he was broken to lead), but he would stand and strike the left side of his head against the door. I finally got him inside and then he would walk around the stall striking his head and trying to get out. I did not give him any medicine, as I thought he had hurt himself on the ice. About noon he began trying to climb the wall and soon fell down and died in a short time. We changed the horses to another stalk field soon afterward and in a few days my brother had a yearling mare act almost the same way. She had been as gentle as could be, but we could hardly do a thing with her. We threw her with ropes and tied her and then gave a pound of Epsom salts. This moved her bowels during the day and she got better and would eat and drink, but still acted wild. She got away from me and went with the rest of the horses and we let her go. She is still with them, seemingly all right now. Can you tell me what was the cause of their trouble, and also the remedy, if any?

Toxic poisons from spoiled or moldy food were the probable cause of the disease described and the physic was the right treatment. Cerebro spinal meningitis presents similar symptoms and is due to the cause suggested. Cornstalk fields are dangerous places in which to pasture horses, as they often contain poisonous matters and over distension of the digestive organs with coarse, bulky food may also lead to similar losses.

IMPOTENT BULL.

I have a fine Short-horn herd bull, two years old, that has quit serving. He commenced acting that way last fall and has gotten gradually worse until now he will not mount at all. He is keen, gets ready quick and often; will fool around all day and never mount unless excited by another bull. When he will mount he makes good service. I was feeding bran, oats, alfalfa meal, a little corn and oil meal at the time the trouble began, and later added silage. I am now feeding nothing but silage and hay with no better results. He is not fat and has not served over thirty cows the past year. He was fed quite heavily when young. The bowels are in good condition.

Do not feed alfalfa in such a case and silage will do harm. Indeed very little of that food should be used for a stock bull. It is too loosening and often it is sour or moldy and then proves injurious. Feed whole oats and bran, without corn, and along with the best of hay. Keep him away from the cows and make him work or take abundant exercise every day in the

open air. If he masturbates there is little hope of recovery. Get him into strong muscular condition and he will serve all right if there is no organic trouble present.

WEAK STIFLES.

I have a two-year-old colt coming three this spring; is a big, growthy colt, but thin in flesh. He was worked hard at two years old and has trouble in his stifle joints. Whenever he starts to walk the stifle cap will slip off to the outside and then when he sets his foot down, will go back to place with a snap. It seems a little sore when walking. If he were turned out and let run this summer do you think he would get all right? Both legs are the same way.

Tie the colt up short in a stall so that he cannot lie down and keep him there for six weeks. During that time blister each stifle in turn with cerate of cantharides and if necessary repeat the blistering later on. This will afford a good chance of recovery.

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Some farmers are like some plows—they run too much to land. The broad-gage farmer sometimes “cuts more than he can cover,” like the broad-gage plow.

After all the talk about graft and its evils, here comes “tidings from the West” that an experienced grafter can command \$10 per day out there grafting fruit trees in the orchards. Wonder what the going wages is for “check raisers” and “safe blowers?” At the present price of apples, fruit growers don’t need any “check raising.” Their heads are high enough now and the prices at which orchard lands sell would indicate that most any kind of blowing is safe. Perhaps they could utilize a few porch climbers in picking time?

A girl sometimes sets her ideal of a husband so high that nothing but an angel can fill the bill. No man wants to marry an angel. He wants a good looking little sinner that can cook a good meal out of almost anything, and always keep the buttons sewed on his clothes. A girl with an ideal too high is liable to be an old maid or else get a hypocrite who will make her life miserable.

The Candidate.

A man is loath to kill his friends, but what a blessing it would be to him sometimes if he could.

“Owing to the solicitation of many friends” he announces himself a candidate for some office. He cannot withdraw “in the interest of harmony” and “do justice to his friends.” He is now “in the hands of his friends,” and when he gets through the campaign with goose pimples on him bigger then wens, his hair “set” the wrong way, his nose on crooked and about 400 votes shy, feeling as though he had been run through a tanbark mill and beaten with a soot bag, it is his “friends” that greet him with

the old story, how they “fought, bled and died” for him, and then present a bill for \$42.29 expenses at Jones’ raffle, or for money expended in getting the “Linkumstipples” in line for him, and there has never been a case on record yet where a man’s friends did not think it better for him, after all, that he did not have office.

Lord deliver him from his friends after he is elected. His enemies may let him alone then, but he has the sins of commission and of omission of a thousand friends to answer for in addition to his own.

Rabbit Inspection.

Meat inspection is probably one of the necessities of the age, and especially is this true of wild meat. If you kill a jack rabbit you should send it to Chicago and have it inspected without fail. Rabbits jump so high they are liable to have spring halt, or poll evil from bumping their heads against something. You should remove the feet for a talisman, and keep the ears for fans, have the carcass thoroughly inspected and on receiving the inspector’s report, fry it and eat it and let him keep the rabbit.

To Stop an Automobile.

Here is where the amateur gets left; anyone can start an auto, but it requires skill to stop one. There is no use to reverse the lever, yell whoa, put the stopcock on and lean back—that don’t do it. You must keep your head, maintain your nonchalance, cultivate insouciance, keep an air of indifference, and refrain from flightiness, for you are not running an airship.

Firmly, yet gently, pull the dofficker that increases speed back to the place where it was to begin with, put your foot on the dingfium that touches the thingumbob, press the sockdolager over the button, raise the lever of the non-composmentis until it is in line with the clod buster, unhook the condivias until it ceases to comboboliate

and then yank the everlasting stuffing out of the whangdoodle.

This will bring it to an immediate state of inertia, and incapacitate it from rectilinear motion to which it has been accustomed. There is no actual design in the auto’s declination to stop moving in consonance with your wishes. Profanity will imperil your standing in the church and do no good. It is perfectly willing to stop if approached in a spirit of amity and good will.

If you are running sixty miles an hour you cannot expect to stop at the rate of ninety miles per minute. If you do it is bound to go end over end at least three times and you will be lucky if you get out without having your hair mussed up.

A young man was running an auto with one hand and courting his lady love with the other. He forgot about a turn in the road and ran up over a curbing, through a garden fence onto the porch of a millionaire, who paid \$3.20 for the plant of the creeping vine that was wound around the reciprocating funnicles at the bottom of the auto and he and his lady love went through the window into the parlor, landing under the what not, circumvented yet not subjugated. He was an expert in running an auto, too, but by mistake undertook to put the brake on with the wrong hand.

It requires brains to run an auto, to stop one and to court a lady while

riding in one, and it is far preferable that both hands be used in the manipulation of the machine.

There is a question today in the minds of some of our most profound thinkers as to whether an auto is an improvement over a steady driving horse for joy riding or courtship. It is rare that a driving horse cannot be manipulated with one hand and the other left free for emergency, but with an auto it is different. A horse may of its own volition stop and will always turn a corner and responds to the words of the driver, but an auto responds only to a yank of the lever and tightening of the safety clutch.

If billy cooing between you and your lady love be a necessity, it is far preferable that it be done on the lawn before you start on the joy ride in an auto; then you can start free from all celestial hallucinations and your minds on sublunary things and the billy cooing can continue in the parlor after your return.

The auto is not so conducive to matrimony as was the old horse and sleigh or the horse and buggy. While this is an age of lightning, yet there is a limit to human celerity and the auto on the high speed is too soon for trusting, abiding love to get hold and bind two hearts into one without taking resting spells occasionally. In other words, the auto is too rapid to enable love to weave its woof into the tendrils of the heart so it won’t ravel.

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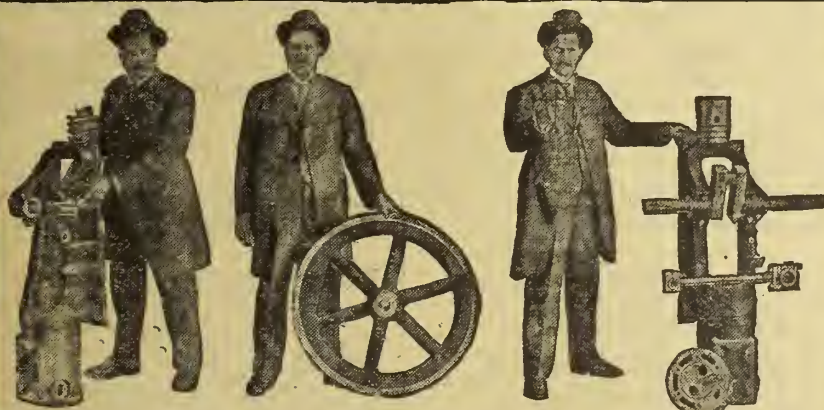


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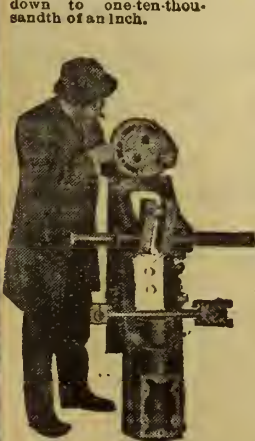
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You'll find that my book will keep you busy thinking—interest you—pay you to read. Free if you send your name. If you haven't got the price in cash right handy now, I'll tell you how you can get a Galloway anyway. Write me—

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WITH THE EDITOR.

Readers of the Home Department will remember that some weeks ago announcement was made that five prizes of one dollar each would be given for the five best essays on "Our Garden." It was the hope of the editor that a goodly number would send in garden articles and that the reading of them would stimulate gardening in the families represented in the Home Circle. The first hope has been realized. A number of practical, interesting and, therefore, helpful garden talks have been received. From these, five have been selected which cover several phases of the subject. The plan followed was to select the best essay of those covering any one line. This left some very good articles out of the prize list, but to attain the idea of the contest the committee felt his was the best plan.

Two of the prize essays are presented this week instead of the usual editorial. The other three will be given next week.

"OUR GARDEN."

"Our Garden" expresses the situation exactly at our home, for we all have a hand in it; husband and the boys plant and tend the vegetable garden, while the girls and I look after the flower end of the garden, although husband and the boys are also interested in the flowers, and even the two small tots must have their own individual plants, and help mama pull weeds. Flowers have a soothing, elevating and refining influence and how I do enjoy them. Many and many a morning I visit my flowers, before I begin to get breakfast, and again after supper I must go and call on them. No matter how tired I am, they seem to rest me. And, sisters, have flowers in the back yard where you can feast your eyes on their beauty every time you step outside the door. Busy sisters, if you have not already done so begin a perennial bed this spring, they require so little care when once established.

Now let me tell you what to plant in that bed. Anemones, achilleas, the pearl and roseum, Canterbury bells, columbines, foxgloves, day lilies, white, blue and variegated larkspur, hibiscus, three different kinds, German and Japanese iris, hollyhocks, hardy pinks, peonies, several colors, perennial candytuft, perennial peas, linum perenne, platycodon, blackberry lily, hardy phlox, poppy, the Iceland and Oriental, grass pinks, plume poppy, perennial aster, golden glow, blue spirea, prairie dahlia, Sweet Williams, shasta daisy and snowball daisy, stockia, tritoma, violets, Yucca and ever so many more. Some of these will have to be started from the bulbs, but a great many of them can be started from the seed and will bloom the first season; that is, some of them will, and don't forget to plant a climbing rose or two, and if you have never raised dahlias get a few bulbs, one of a kind is enough, and plant them where you can throw all your waste water on them, "and then some" if you will permit me to use a little slang; and then watch them grow and bloom. Mrs. Laura Lewis, Woodbine, Iowa.

A FARM GARDEN.

The garden on this farm is quite an extensive affair. We have a small plot fenced off near the house in which we have our hotbeds. Two hotbeds, one 14x15, the other 12x14, are just large enough to hold a barrel of sweet potatoes. In another hotbed, we plant seeds of early cabbage, tomatoes, celery, ground cherries, garden huckleberries and peppers. What plants we do not need for our own use, we market with the sweet potato plants, sending them to town with the cream hauler, who delivers them to a grocer. By the use of the phone we are kept informed as to the quantities needed.

We also supply many of our neighbors with plants.

We find that celery plants are the most profitable. They are considered hard to grow, but we have no trouble. The celery bed is kept moist and a white cloth stretched over it keeps the sun from drying out the bed. In this garden we raise lettuce, radishes and a few early cabbages, and garden huckleberries are grown here, as they require rich ground. Cucumbers also, being near the house, are easily gathered. Our Kentucky Wonder and early lima beans are planted where they can climb the fence. If all the pods are stripped from the Kentucky Wonder vines before any of them ripen, they will bloom again and produce a second crop. Celery and bush beans do well in the rich soil of this garden. Our flower bed contains flowers easily grown and suitable for bouquets. Geraniums, salvia, and foliage plants from the window garden, together with dahlias, gladioli, and a few annuals, furnish color which adds beauty to the usefulness of our garden.

Peas, tomatoes, watermelons and muskmelons are relegated to the field garden, as they are not adapted to rich soil. Also the other vegetables which we raise in small quantities as beets, parsnips, carrots, etc.

It is in the field that we have our garden proper. The ground is marked out with a corn planter, and tilled by a surface cultivator. This cultivator cuts the weeds and does not disturb the plants. The earth is thrown into ridges with a stirring plow for the sweet potatoes. We set out on an average about 1,000 sweet potato plants, 500 cabbages, 200 each of celery and tomato plants. Sweet corn and Irish potatoes are given a prominent place and small fruit is not neglected.

Ralph Cahow.

Greenfield, Iowa.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

The secret of popularity is to make everybody you meet feel that you are especially interested in him. If you really feel kindly toward others, if you sincerely wish to please, you will have no difficulty in doing so. But if you are cold, indifferent, retiring, silent, selfish; if you are all wrapped up in yourself and think only of what may advance your own interests or increase your own comfort, you never can become popular.

BY THE FIRELIGHT.

When I have had my evening bath,
And donned a fresh clean gown,
I like to sit on mother's lap,
And go to Drowsy-Town.

She sings me sweetest lullabies,
In voice so soft and low,
While all the time the firelight
Goes flickering to and fro.

At first I hear each word she sings,
I've heard them many times,
She knows the songs I love the best,
And all the sweetest rhymes.

But by and by her voice seems faint,
And very far away—
Next thing I know I'm wide awake,
And it's another day!

—Ada P. Campbell.

HOUSEKEEPING HELPS.

Drinking a glass of cold water every morning and evening immediately after rising and just before retiring relieves a disordered stomach and liver, or the chronic constipation from which so many persons suffer.

Burning a little lavender in a saucer gives a delightful fragrance to a room and is a method that certain French physicians declare highly antiseptic. Another good way to deodorize a room is to add a tablespoon of some good antiseptic to a glass of cold water and spray it with a small hand spray around the room several times daily. In cases of contagious diseases most of these antiseptics can be used full strength.

The ordinary kitchen table is too low for tall people to work on. Take four common doorstops which screw into the wainscoting to prevent door striking the wall, and screw one onto the bottom of each table leg. This raises the table about three inches and makes it much more convenient for the tall person. The doorstops look like finished portions of the legs, are neat and could not be detected as being other than parts of the legs themselves. They can be bought for a few

Do farmers eat the proper sort of food?

The farmer of today buys a much larger proportion of the food that goes on the table than he did ten years ago. It's a good thing that this is so because he has a great variety to select from. He should, however, use great care in selecting for the best results in health and strength.

The widespread tendency in the city to increase the amount of Quaker Oats eaten is due very largely to the recent demonstrations by scientific men that the Quaker Oats fed man is the man with greatest physical endurance and greatest mental vigor.

Farmers should give this subject careful thought and should increase the quantity of Quaker Oats eaten by themselves, their children and the farm hands.

The regular size 10c package is not as convenient for the farmer as the large size family package at 25c. 57

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cents and screwed on in five minutes. To cook an egg, have some boiling water in a saucepan, put in the egg, cover it, and let it stand on the stove for five minutes. Then if you examine it you will find the white creamy, but not hard, and the yolk as well cooked as the white. Most things cook better slowly than fast, and it is a great mistake to think that an enormous fire and very fast boiling water are necessary to cook a dinner.

To keep sausage and sparerib fresh till summer: Fry and pack in jars, then pour over all melted lard. Be sure to use pure lard and not the grease in which the sausage or meat has been fried, for such grease will contain some water which will cause the meat to become strong as soon as warm weather comes. The lard used will be good for cooking purposes, for being poured over after the sausage is fried it will have none or very little of the flavor from it. After trying several ways this has proved the only satisfactory one of keeping either sausage or sparerib through the warm weather of summer.

FOR DINNER AND SUPPER.

Whole Wheat Fruit Pudding.—Mix together one cupful whole wheat flour, one-half teaspoonful soda mixed with a quarter cupful of molasses, one-half cupful of milk and one-half cup raisins and currants or dates and figs. Steam and serve with a hard sauce made by beating to a cream one-quarter cupful butter with one-half cupful pulverized or soft sugar and flavoring with vanilla.

Sour Milk Spice Cake.—Cream together three tablespoonfuls of butter and one cupful of sugar. When light add two well-beaten eggs and a teaspoonful of vanilla and beat again. Then add one cupful of sour milk to which has been added a half teaspoonful of soda. Beat until it foams. Next add one-half teaspoonful each of allspice, cloves, cinnamon and nutmeg, with a teaspoonful of baking powder sifted in two cupfuls of flour. Lastly add a cupful of seeded raisins dredged with flour and mix all into a smooth batter. Bake in a loaf tin about half an hour in a moderate oven.

AMONG OURSELVES.

We are to have some thoughts stirred by "Joshua's Sotness" and G. H.'s letter. They are to be presented by Mr. C. W., whose sound sense is testified to by the quality of his reflections:

"Joshua's Sotness" and an article by G. H. in the same issue of the Home Department call forcibly to me the result of little faults that are let grow until they threaten or cause great misery and probably shame. My observation and experience are that, with most couples who are not congenial, one or both have a fault that would make it impossible to be happy and contented with anyone whom they might be intimately associated with in home life, unless that other person has the strength of character and tact to cause them to overcome their fault. At the present time I believe the women err as frequently as the men. To illustrate: A couple went on their honeymoon. The groom wanted to spend the six weeks in the Maine woods and the bride at Saratoga. They compromised and spent one week in the woods and five at Saratoga. Of course, their happiness would depend largely on how much tact she makes use of in getting her way. Women can usually have their way, but not by making the husband realize the "superiority of the individual." I know a couple that are not as congenial as necessary for greatest happiness, yet when they had been married a few months the wife said the husband would give his head to please her; in less than a year she complained bitterly of her husband and other married men being neglectful of their wives. As a matter of fact, she took all his little courtesies as a compliment to herself and failed to be courteous and considerate of him in return. Reciprocity is necessary to happiness. No one ought to expect a continuation of the little things that go so far to make us happy unless he shows his appreciation. In another case the wife has a strong will and a high temper. When she speaks the husband is as meek as a lamb, yet he complains to outsiders how he is abused, and no one admires him or his wife. Again, I know a husband who has to select everything for the inside of the house as well as on the farm. The wife says she doesn't care. This falls short of being the helpmeet that a man likes. On the other hand, I know many couples who are as happy as their capacity will allow. They have tasted joy and sorrow together, they have assisted each other to overcome faults that might mar their lives if continued in, although heroic measures may sometimes have been necessary. They have lived preferring the happiness of the other to their own, and therein have found happiness. G. H.'s case is a sad one, yet no one can help him; he seems to lack force. What girl with a choice of fellows will marry the one she can boss and slight and yet always find at her apron strings? What wife could admire a husband without force enough to severely rebuke her for gross misconduct? My wife looks at me sometimes and says that the Lord is not the only one who works in most mysterious ways, but that in constant companionship something out of the usual order adds to the spice of life.

There are other letters which deal with the problems suggested by the

story and the troubles of G. H., but I think they must wait for another day. Meantime Mr. C. W. has given us good thoughts which we will do well to mark, learn and inwardly digest.

Replies to "In Despair" are coming in. We shall consider what Mrs. L. J. C. proposes:

"In Despair's" letter makes it imperative for me to "speak up." In my eyes any parent who refuses his children a high school education, if circumstances are such that a high school education is possible, is guilty of gross neglect. A generation ago a high school education was not very ordinary. A person who even possessed a grammar school education was fortunate, but now, with such unlimited opportunities for education, see that your children and your children's children take advantage of that opportunity. Better give your children a good, thorough education and stay poor financially. A high school education is necessary to the highest success in any walk of life. It broadens and develops as nothing else can. The years at high school are the years when character is most rapid in formation. Surely the high school boy or girl, who has then the advantage of being introduced to history, science, mathematics and the highest and best in literature by college-bred men and women, has an advantage over the grammar school boy or girl who, out of school at the age of fourteen or fifteen years, stays at home and helps with the work and whose untrained mind and soul, in times of recreation, very often become warped and twisted by wrong ideas—foolish books and foolish people. The young are invariably impressionists. It is the parents' business to see that their environment is that best suited to the making of true men and women. The town where I spent the most of my "teens" was a high school town. The high school was the most important factor in the town and its main population consisted of school children, all the way from six to twenty years of age. Many of the high school pupils lived at a distance too far to drive daily and for the benefit of "In Despair" I shall tell how these children managed to attend high school. Many were children who could not afford to board. Anyway, boarding isn't good for a pupil. He has too much spare time, and "idle hands," you all know the quotation as to what work they find to do. Some families who had several children in high school at once rented a house or housekeeping rooms and let them keep house. This isn't the easiest thing in the world, but like many hard things, it's good for one, and it is about the cheapest way to go to high school where finances must be considered. There were four or five families having one or two children of high school age. They rented a large house, fitted it out cosily and "homey" with articles from the several homes, furniture, books, music, pictures, flowers, bric-a-brac. A very sweet and lovable maiden lady was given charge and, in spite of the fact that the house was promptly dubbed the "Orphanage" and the inmates the "Orphans," I think their high school days were as pleasant and carefree as can be. They spent Saturdays and Sundays in their several homes and during the week they still lived in home atmosphere. Secure in the chaperonage of the lady in charge, they could entertain their friends, a thing not always possible when the pupil alone keeps house. Where the finances warrant it, the "Orphanage" system seems to me the best, that is, when the parents are "firmly rooted"; some place else and do not care to move to town. There is always some sweet and good and lovable woman, practically alone in the world, who will make a school time home for your children. If finances don't warrant this let your girl and her brother keep house. But don't, oh, don't deny your children a high school education. If you can't afford to help them let them earn their own way if they will.

Mrs. L. J. C. speaks to us from California. Now let us hear a voice from Kansas.

Sunflower, like Mr. L. J. C., speaks for larger educational opportunities for the young:

Some time ago a reader of the Home Department asked opinion in regard to sending children to high school when the parents could not move to town, either on account of surrounding circumstances or neglect, and should a child consider his education complete with the eighth grade. First, I am acquainted with some pupils who live too far from town to drive. These either board in private families or board themselves. Those that board themselves rent a room and do their own cooking, the parents bringing in as much of the eatables as possible. This seems to be the cheaper way where there is more than one going to school. Another way is to work for their board, but this way is not deemed advisable, for they cannot work and study at the same time. All that I knew who did this were always obliged to give up their place and board or quit school, for they did not have time to study. And study you must go through high school and to receive merit for your work. I live about three miles from town, but I drive in order to be at home. This has the advantage of being at home and disadvantage of going through all kinds of weather. Of my acquaintances, who board and drive to school, they get along as well as the average

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The base has a white basswood table top with working surface 26x42 inches, roomy cupboard for pots and pans, and a wide shelf adding one-half to its capacity. Inside of cupboard door is a rack with six spice cans, with another rack below for small packages. Above the large bread and cake drawer with metal top are two drawers for linen and cutlery. Kneading and chopping board can be readily removed and placed upon table top.

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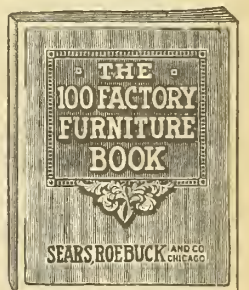
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high school student. Should a child stop school at the completion of the eighth grade? No, they should not leave the school room that soon. The average child is about thirteen to sixteen years old and he is just beginning to realize what is necessary for his welfare. Then we are in an age where a better education is more needed than our parents or grandparents needed. When they completed the fifth reader, as the readers counted those days, and even in the rural school these days, they had a common education, but nowadays it is not considered a common education until the high school is finished. It is a great deal easier for a pupil who has finished high school to find employment than one who has not. I have heard people remark time and time again, "If I only had a better education." Even if children only go one or two years a marked difference can be noticed in the child. They are more polished. I do not want you to get the ideas some parents get. That is to say, "Oh, my boy will not learn to farm while he is going to school." If your boy cannot learn things about farming by hearing his father talk and by helping him during vacation, I fear there would be no hopes after his school life is ended and, besides, his father can surely afford to give him that much time. Or "I would not send my daughter because she will become too 'stuck up' and 'lazy.'" Now what father who is progressive and up to date does not want to see his children dressed up, and with pride? Surely he does not want them to belong to the "I-don't-care class." Then the farmers' sons and daughters want to imitate their city and town cousins. Is it not only right? They do not want to be called "country jays." Now the only way to remedy this is to let them associate and mingle with their town or city friends. Do this by sending them to school, where they meet daily and can pick their friends. Does this pay? Sure, it more than doubles its value. It teaches them to concentrate their mind on one thing, and if they are able to grasp the lessons that are assigned to them, when it comes to facing life's problem they can conquer them so much easier. Therefore, in the end, you may feel proud as the victor who holds his spoils. Parents, I beseech you to consider this education problem. Boys and girls, ponder over it. Perhaps you will not consider it now, but in later life you will. Education does not mean book learning alone, but also the fitting of one for life's journey which is brought about by study.

Whether these friends have helped "In Despair" to solve her problem of the best way in which to give children the advantages of a high-school education is a question, but it would seem as if they would confirm her in her resolve to find a way.

parently the sole motive of taking them through a life of torture is to me inexplicable. There's Maggie, for example, a morbidly sensitive child to begin with. Her sorrows began from the first dawn of intelligence and were increased unrelentingly until her tragic death. Not an alleviating circumstance nor excuse was there for such prolonged agony. Nor was it enough that she should be tried on the altar of fire, but she must innocently be the cause of blighting three other lives. The Dodson sisters are too unreal to merit interest. It seems to me she might have accorded to Tom a little humanity towards his too devoted sister before the hour of his death. Had she even given to Philip but a brief taste of happiness in compensation for his physical deformity and feebleness, I could have felt a little charity for the author. And yet the literary make-up of "The Mill on the Floss" is superior in many respects to most of the author's works.

"Variety is the very spice of life." I always like it when we have differing views about a subject or a book. It makes for enjoyment and appreciation of a more intelligent kind to have all sides.

Special attention is requested for the garden essays which take the place of the editorial this week. Every farm should have its garden. It is our hope that giving the matter prominence in the Home Department thus early in the season will increase the attention given to vegetables and flowers by those who meet Among Ourselves.

DRESSMAKING—NO. 68.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Shirt waists made in tailored style, but finished with a frill at the left of the front, are new and smart. This one is so made, but the frill is removable and can be used or omitted as liked and can be renewed without renewing the entire waist. The tucks over the shoulders are arranged close to the armhole seams in conformity with the latest style and on exceedingly becoming lines. There are two tucks at each side of the box plait at the front and when the frill is used



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An "Old Man's Darling" has a word for the young woman who is in doubt: I will say to the young lady, marry that man, although he is twenty years your senior. If he has good morals, such a man will every time prove the better husband. I married a man twice my own age a year ago and I have yet to regret it. Older men are more thoughtful, have better habits and do not care so much about roving. I know of some young men who leave wife and babies at home of nights, and they are either at town or at some neighbor's for amusements. I know of one young man who had every chance in life. Today I would not exchange places with that wife of his, for my man is either at home or at work, while hers is away and she is without firewood.

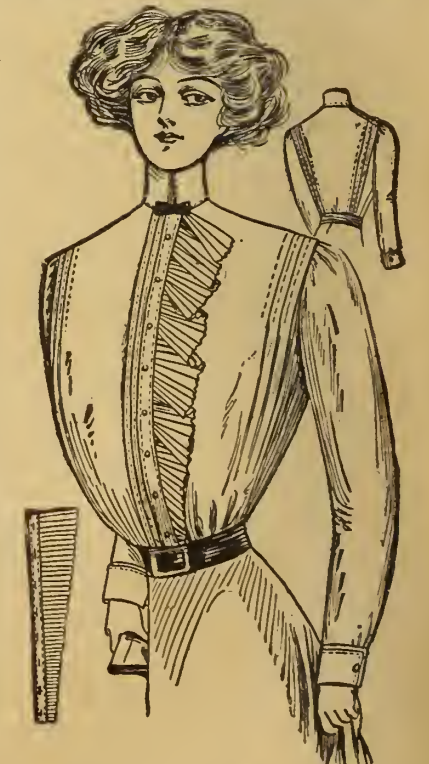
"A Kansas Reader" who has never written, though for years she has read, is tempted to write to "Undecided:"

In answer to "Undecided," I wish to say that when I was nineteen and the gentleman forty-four I faced the same question. I followed my own inclination and have never regretted it. And now, after fifteen years of as much happiness, more I sometimes think than falls to the lot of most married couples, I say if you are congenial and love each other, if the girl is of a quiet and home-loving disposition, she is more apt to be happy than with a younger man. I think, also, an older man is more thoughtful and tender in anticipating your wants and caring for you. To be sure, as the years go by and we begin to go down the hill of life, he feels the age more, but how sweet to think of caring for them tenderly then after their thoughtful, loving care of us through all the former years.

It is rarely that all the advantages are on one side and all the disadvantages on the other. Life is a series of compromises. If you take one thing you cannot have another. It is for each one to consider, to weigh carefully, and having made choice endeavor to make the best of it.

Usually we have our book talk among the first numbers on the program, but today it comes last. Mrs. Reed will speak of "The Mill on the Floss," which was reviewed Among Ourselves a short while ago:

Every one to his liking, to be sure, and with all charity, but as for me, I can see no excuse for "The Mill on the Floss." Why anyone with the author's undoubted talent would willfully and, it almost seems to me, maliciously, create her characters with ap-



16556 Blouse or Shirt Waist, 32 to 42 Bust.—To be Made With or Without the Frill.]

it is attached to an additional band, which is buttoned into place. Linen with the frill of handkerchief lawn makes the waist illustrated, but there are a great many fashionable waisting materials this season. Shirt waists of thin materials made in tailored style are greatly liked, the familiar madras and fabrics of the sort and more beautiful than ever, and such a waist as this one is equally appropriate for silk and flannel.

The waist is made with fronts and back. The tucks are laid on indicated lines and a neck band finishes the neck. The collar is of the high turned-over sort, attached by means of buttonholes and studs. The sleeves are of regulation fullness, but are finished with bands and rolled-over cuffs that are held in place by means of links.



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The frill is of graduated width and can be plaited or gathered.

The quantity of material required for the medium size is $3\frac{1}{4}$ yards 21 or 24, $2\frac{3}{4}$ yards 32 or 2 yards 44 inches wide with $\frac{3}{8}$ yard 21 or 24, $\frac{1}{4}$ yard



[6555 Overblouse With Guimpe, 32 to 40 Bust.—With or Without Long Sleeves.]

32, $\frac{1}{4}$ yard 44 inches wide or $1\frac{3}{4}$ yards of ribbon 4 inches wide for frill.

The pattern 6556 is cut in sizes for

a 32, 34, 36, 38, 40 and 42-inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

The overblouse is one of the developments of the late season, and it is being used in a number of novel and attractive ways. In its later form it is quite simple in cut and for the most part is made in one with short sleeves. The one illustrated shows it at its best. It is made of pretty thin silk with trimming of banding and applique and it is worn over a guimpe of tucked net. Overblouses of this sort are very much liked for chiffon cloth, however, and for crepe de Chine and similar materials, and they are worn over guimpes of lace, flowered and Persian silks as well as over the plainer materials. In addition to serving for separate blouses they are admirable for use in combination with coat suits, to which case the overblouse would be made of chiffon, crepe de Chine or messaline in color to match the skirt with the guimpe in contrast.

The guimpe is a simple, plain one with front and back portions and can be made with or without the long sleeves. The overblouse is distinctly novel. The sleeves are made in one with it and the side portions are lapped over on to the center front and backs to allow singularly effective use of trimming.

The quantity of material required for the overblouse in the medium size is $2\frac{3}{4}$ yards 21 or 24, 2 yards 32 or 1 yard 44 inches wide; for the guimpe, $1\frac{1}{2}$ yards 21 or 24, $1\frac{3}{4}$ yards 36 inches wide; with $\frac{5}{8}$ yard 18 to make without sleeves as illustrated; $3\frac{1}{2}$ yards 21 or 24, $2\frac{3}{4}$ yards 36 inches and to make, with long sleeves.

The pattern 6555 is cut in sizes for a 32, 34, 36, 38 and 40-inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson XII.—Matthew IX., 1-13.

March 20, 1910.

THE PARALYTIC FORGIVEN AND HEALED.

Over a suffering form, shaking like an aspen-leaf, the master once bent and said, "Cheer up, son!" Then followed words that had never fallen from human lips before, "Thy sins are forgiven." Strange! The same words that fell on the sufferer's ears like seraphic notes from golden harp clanged discordantly on Pharisaic ear. According to the faith of each, so was it. The paralytic sprang to his feet, rolled up his mat, and departed healed soul and body; while the Pharisees remaining were only filled with envious and injurious cavilings. At this point in his public ministry, Jesus came nearer than ever before to the categorical announcement, "I am God." Through the thin veil of his speech he could be seen doing the work God only does, and assuming the incommunicable prerogatives of Deity. He stopped just short of the explicit enunciation in order that, while he lured them on to faith, he might not provoke them to unbelief. With his auditory in general he was successful. They not merely wondered; they praised God, and were filled with sacred awe. They said, "Our eyes never saw anything to match this scene." But there were commissioners of the established church present, incited by a premium to find means of overthrowing this independent young rabbi. The horns of the dilemma are very apparent. "He is man or God." They chose the former, and find in it ground for charge of blasphemy. Jesus' response is, "Sins forgiven; in your opinion it is easier to say that, because the expression calls for no visible results by the non-appearance of which the imposture is apparent. I will come down to your level and use the formula you would dictate, 'Rise and walk,' in order that you may see that there is equal virtue in the first form." This is by inference only. Here is "sublime breviloquence." He does not say, "I will now speak what you require." He just speaks it. He furnishes the credentials of his authority to forgive. "Power to forgive sin!" Jesus goes at once to the fountain of all human

griefs and ills. He proclaims his authority to rectify that moral condition of the soul of which shame, suffering, death are only the accidents.

The Teacher's Lantern.

"Cheer up, son!" It is as if the benignant face of Jesus were beaming now upon a palsied race, and he were bidding it take heart again. "Cheer up!" He, only, speaks those words with power. He removes sin, the source of grief. He opens in forgiveness a well-spring of joy. Jesus proceeded psychologically. He first righted the palsied soul. At sight of penitence and faith, he pardoned, cleansed, energized, assured the soul. Then his grace extended to the physical nature. The forgiver of sins is in the heaven of heavens today, but his power to forgive is still manifest on the earth. In sight of God, moral infirmity is worse than physical. It was a gauge of the towering influence of Jesus that, at this early stage of his ministry, the sanhedrim sent a high commission to sound his claims and doctrines. Zealous inquisitors those! Jesus saw the reasoning of the scribes, the faith of those who had brought the patient, the penitence of the sufferer. Thoughts and intents of all hearts are open to him. He addressed himself with sovereign authority to each class. Jesus' ironical question puzzled his insincere inquisitors. His mighty deed put them to irretrievable confession. Simeon's prophetic swansong over the infant Jesus was already fulfilling. To the paralytic he was the rock of hope, to the Pharisee a stone of stumbling.

Those states in the central West that allow fifty cents for dragging a mile of road find that they cannot get the roads dragged at that price. The facts in the case are, a farmer can hardly afford to hitch up a team for half a dollar, saying nothing of wading through the mud for a distance of two miles. When road officers are willing to pay the price they will get the roads dragged at the proper time, and not before.

Ask your neighbor to subscribe for The Homestead.

Stock Up with Fresh Soda Crackers

Instead of getting a large package of *loose* soda crackers that soon grow stale—stock your pantry with small *tight* packages containing

Uneda Biscuit

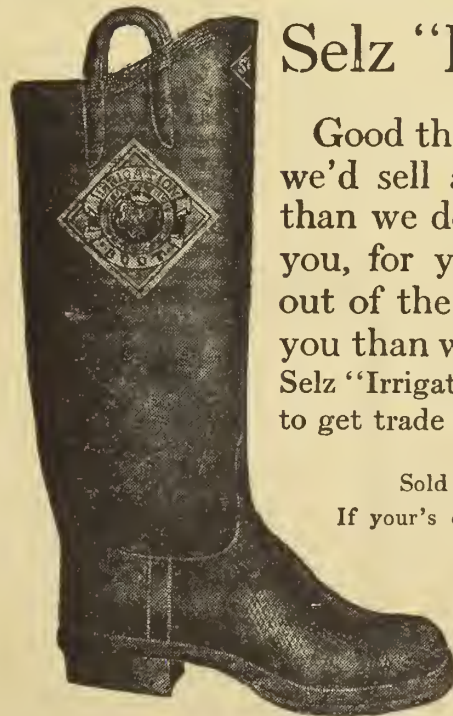
Fresh soda crackers every time you eat—the last as fresh as the first—because they are placed in moisture proof packages the moment they leave the oven.

5¢

(Never Sold in Bulk)

NATIONAL BISCUIT COMPANY

It would be a good thing all around if every man who wore rubber boots knew how good a boot



Selz "Irrigation" is

Good thing for us, of course; we'd sell a lot more of them than we do: a better thing for you, for you'd get more profit out of the service they'd give you than we do in selling them. Selz "Irrigation" is made not merely to get trade but to keep it.

Sold by the best dealers
If your's doesn't sell it, write us



Largest makers of good shoes in the world

Petrosote

A Money Saver for the Farm

The best preparation for dipping and preserving Posts, Poles, Shingles, etc. A disinfectant for Live Stock, Sheds and Poultry Houses. Kills odors, germs, lice and barnyard vermin. Superior paint for barns and sheds. Five gal. can, \$1.00; fifty gal. barrel, \$5.00, f.o.b. Lincoln. SEND FOR BOOKLET telling about Petrosote.

BETTER AND CHEAPER THAN PAINT 10 CENTS A GALLON

LINCOLN GAS COMPANY, Dept. E

Lincoln, Neb.



THE YOUNG FOLKS

The Snowball Fight.

All through the day from skies of gray
The snow has sifted down;
And every boy has watched with joy,
In spite of teacher's frown,
Till school is o'er, and through the door
They all come piling out;
And then on high they raise the cry,
The snowball battle shout!
The books they throw into the snow;
The caps are pulled on tight;
The lines are drawn across the lawn,
Hurrah for the snowball fight!

No tree or wall, no fort at all,
No time for things like this,
Each soldier there a target fair
That all may hit or miss.
The balls of white are molded tight,
And hurled like anything;
Across the yard they whistle hard,
And when they hit they sting!
At last with jeers and ringing cheers
One side is put to flight;
Then through the snow they homeward go
Hurrah for the snowball fight!
—Youth's Companion

A Good Game.

I am twelve years of age and in the sixth grade. One day we were invited to one of our neighbors for a five o'clock dinner. After dinner we went coasting down the straw pile. Our other two neighbors were there, so there were lots of children there. After we had slid down and rolled down the straw pile till we felt rather chilly we went to the house and after we got warm, went upstairs and played games. Some of the games we played were: "Farmer in the Dell," "Go Round and Round the Levy," "Wink," "Clap in and Clap Out," and many others. The way to play "Clap in and Clap Out," is as follows: All the boys go out into another room and take numbers from one to as many boys as there are. The girls are in another room sitting down and then one of the girls asks for some number—of course we don't know what numbers they have taken—then the one who is that number comes in and sits down on one of the girls' laps. If he is on the right lap he can stay sitting, but if he is on the wrong lap we all clap our hands and then he has to go out and another one comes in, etc. While we were playing the man of the house came upstairs and invited us downstairs to eat ice cream and it certainly didn't take us very long to get down, myself in the lead. After we had eaten our ice cream we went upstairs and played games until it was time to go home. We had a nice sleigh ride home, only mine was short, for we only had to go about half a mile.
Esther Reinehr.

A Newsy Letter.

Well, as I didn't see any letter from around Stringtown, I will try to write you one. I am a farmer boy, fifteen years of age and live on a farm of one hundred acres. I go to school in winter and work on the farm in the summer. I am in the eighth grade. My father owns nine head of horses and mules, eight head of cattle, twelve head of hogs, and about 125 chickens. All of our chickens are Plymouth Rocks. I own a milk cow and a young heifer, and they are beauties, too.

It is raining at present and melting the snow very fast. If it keeps on melting very fast the Big Muddy river is liable to overflow its banks. There is a small creek running across our farm which makes it fine for trapping. My two brothers and I have caught several muskrats this winter. Rabbits are getting scarce, for we and the neighbor boys have caught nearly all of them. We could hardly find a rabbit trail this last snow.

My brother got a nice Shepherd pup from a neighbor boy last fall and it was nearly grown, but it got to be so mean that we had to get rid of it. It would get every egg it could find and eat them. We tried to break him from eating them. We broke a hole in an egg, filled it with pepper and laid it out in the yard and do you believe it, he ate egg, pepper and all. Then we heated an egg to try to burn his mouth, but that didn't break him. One night my mother left the clothes hang-

ing on the line and the next morning there were several pieces nearly torn to shreds. He would fight the cats too, and one day he got into a fight with the old cat and nearly killed him. He would also chase the chickens and so we had to keep him tied all day and turn him loose at night. We decided to kill him, for there had been several mad dogs around here, but he was a good dog about driving the stock. The other day my mother told us that she would give the one that killed him twenty-five cents. My brother said he would do it and he got the old musket and took the dog to the woods and shot him. The eggs, cats, pigs and chickens have had a rest since then. My smaller brother didn't much like the idea of having him killed and so my mother gave him a nickel if he wouldn't cry about it. He never has yet.

As we had no dog this winter that could catch rabbits, we caught them in box and slat traps. There for a while we would catch two every night, but let me tell you, rabbits are hard to trap, for they will gnaw their way out.

I like to live on the farm pretty well, for a fellow can yell, whoop, sing, etc., and never disturb anyone. We have four milk cows and I milk two and my brothers milk one apiece.

One day this winter I went to stay all night with my cousin. We certainly had a fine time. We went to the pond to skate. Several boys and girls were there. As I was not used to skates I could hardly stand up. We skated till about noon and I don't believe I ever was so tired.

I live a half-mile from school. It is one of the leading schools of the country. It enrolls two and one-fourth scores of pupils. I live within one mile of a small village. There are two grist mills, two stores and a church and several dwelling houses. It is handy to live close to a little town. If a fellow wants anything he can catch a horse, gallop to town and be back in a little while.

How many boys and girls know how to play such games as checkers, fox and geese, and bushel? They are very nice games to play.

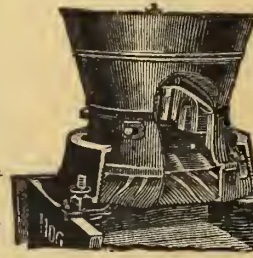
I just got over the measles. It is going pretty rough with some people around here, but they didn't hurt me very much.

To the boys that like watermelons here is a way to plant them. The boy who doesn't like watermelons I don't believe has a good appetite: First, select a place where the ground is poor and yellow so the weeds won't grow. Break the ground and get it ready to plant. Then to make the hills, take a dirt shovel, dig out a shovel full of dirt, fill it with log ma-

nure (this can be obtained where an old log has rotted), put fine dirt on top of this, and then put eight or nine seeds about an inch deep into the loose dirt so if the ground crusts they can all push through. After they get about three or four inches high, thin them and leave two or three, cultivate often and I assure you, you will get some watermelons. It will be awful nice when you come in at noon from work and have a nice, large sweet and cool watermelon to eat.
James Fitzjames.

WONDER OIL LAMP

Sent To Your Home
We want you to try in your own home, without risk or expense, our marvelous new, 100 candle power Wonder Oil Lamp, generates its own gas from common coal oil—burns on incandescent mantle. Six times cheaper than old style lamp and far more brilliant than electricity or gas. 40,000 families now using. The price of this lamp is \$5.00, but to introduce it quickly, we will make one person in each locality a **Special Free Offer**. Remember, if you accept our offer we send the Wonder Lamp, express prepaid. We want to place one for demonstration purposes in your home and ask that you recommend it to your neighbors. Let the Wonder Lamp light your home. Simply send your name and address today.
United Factories Co., Dept. 11 Kansas City, Mo.
When writing mention this paper.



ANTI-FRICTION, 4-BURR MILLS

DOUBLE THE CAPACITY OF GEARED MILLS

Two horse mill has 24-ft. grinding burrs (two set) all grinding at once and grinds from 25 to 50 bu. per hour. Four horse mill grinds from 60 to 80 bu. per hour.

30,000 Bu. with one set of burrs.—I have ground with one set of burrs, more than 30,000 bushels of corn with my Mogul No. 1 Mill, and the burrs are still in good condition.—F. F. Craig, Mt. Carroll, Ill.
Two complete mills in one; has double the capacity and double the durability. Absolutely no friction or wearing. Will earn cost price in three days. The largest ears of corn to these mills are like popcorn to other mills. We manufacture the most durable and fastest grinding line of mills sold, including our Famous Iowa No. 2 for \$12.50. Send for our free catalog.

BOVEE GRINDER & FURNACE WORKS, 100 8th Street, WATERLOO, IOWA.

500 FARMER Agents Wanted



to sell the best Lightning Rods and Fixtures made in the country. Cable has spiral center giving greatest possible surface conductivity. Guaranteed 98 per cent pure copper. Fixtures good as money can buy. Our prices are low and will enable any intelligent, industrious farmer to

Make Big Money Selling Our Lightning Rods

You know your neighbors. They know you and have confidence in you. No business offers the chances to make money like this. Our prices enable you to ignore all competition. Write us today for our liberal offer to farmers. Remember—we want farmer agents to represent us. We help you make money. They are the boys for us.

Iowa Lightning Rod Co., 200 Main St., New Hampton, Ia.

Elkhart Buggies

are the best made, best grade and easiest riding buggies on earth for the money.

FOR THIRTY-SEVEN YEARS

we have been selling direct and are **The Largest Manufacturers in the World** selling to the consumer exclusively.

We ship for examination and approval, guaranteeing safe delivery, and also to save you money. If you are not satisfied as to style, quality and price you are nothing out.

May We Send You Our Large Catalogue?

Elkhart Carriage & Harness Mfg. Co.
Elkhart, Indiana

Save
\$30



BETTER THAN PAINT

At One-Tenth The Cost



Taroleum

is the best wood and metal preservative known. It soaks into the wood, keeps out moisture and insects, thereby preventing decay. Especially adapted for painting barns, hog and cattle sheds, poultry houses, corn cribs, etc. It is a perfect germicide.

TAROLEUM is an extra good roof paint. It preserves fence posts and shingles. Best for metal and prepared roofings. Only one color, black. If you have wood to paint ask for No. 1. For metal and prepared roofings ask for No. 2, as it has more body and leaves a heavier coat. Either kind can be applied with a brush.

Fifty gallons \$7.50 f. o. b. Omaha. Also sold in small quantities. Try it. Satisfaction guaranteed. Write for our booklet which explains why **TAROLEUM** PRICE IS LOW and **QUALITY HIGH**

OMAHA GAS COMPANY 1836 South 20th St., Omaha, Neb.

A Letter from Iowa

2040 Iowa St.
Davenport, Iowa,
September 19, 1909

The Solvay Coke Co.
Milwaukee Wis.

Gentlemen—Last winter in Red Oak, Iowa we bought your Prevay Coke and liked it so much that we want to use it again. If it is on sale here will you please tell us who keeps it—We would be glad to be able to obtain it.
Very Truly,
Mrs. L. E. Zylar.

100,000 Clean Homes

Are evidencing the value of Solvay Coke—are saving money, time and trouble by using the fuel that is smokeless and sootless—that leaves no ashes to sift.

Buy Milwaukee

Solvay Coke

"The Fuel without a Fault"

There is no other fuel like it—none so good for domestic use. It makes a quicker, hotter fire than hard coal, yet is easy to regulate when a low fire is desired.

2,000 dealers in the Northwest sell Milwaukee Solvay Coke—all sizes—ask your dealer, and write for interesting booklet of coke information to

PICKANDS, BROWN & COMPANY
Colby-Abbot Bldg., - - Milwaukee, Wisconsin

ADVERTISING NOTES.

Kellogg's Toasted Corn Flakes.

The advertisement on page 7 presents information with reference to Kellogg's Toasted Corn Flakes, a breakfast food that is highly recommended not only because it is appetizing, but because of its wholesomeness and high food value. It is made of the best white corn, put up in attractive packages and needs no preparation. It can be found at all grocery stores.

The Keystone Potato Planter.

The Keystone potato planter is a labor saver, which in addition to saving labor, does its work more perfectly and more accurately than any hand planting can do. It is a simple, strong, durable machine and is sold at a price within the reach of every farmer. Descriptive catalog and price list may be had by writing to Mr. A. J. Platt, Mfr., Sterling, Ill. Advertisement will be found on this page.

Concrete Machinery.

The attention of our readers is directed to the advertisement of the Universal Concrete Machinery Company, on page 33 of this paper. This firm manufactures machinery for making concrete drain tile, building blocks and, in fact, machinery that may be used in all lines of concrete work. They also sell gasoline engines. A circular giving descriptions and prices of both the concrete machinery and engines may be had by writing to the Universal Concrete Machinery Company, Federal Bldg., Waterloo, Iowa.

Good Bye to the Hired Man.

The advertisement of the E-Z bagholder on page 20 has taken away one more use for the hired man. It is a simple truck and device by which grain bags can be held in position and filled without any extra help. One man does the work and when filled the bag can be moved in place on the truck without the usual hard labor involved in moving filled grain sacks. It is sent free on a thirty days' trial. For further particulars concerning this trial write at once to the E-Z Bagholder Company, Dept. 9, Marinette, Wis.

The Never-Sag Farm Gate.

The advertisement of the Hackney Manufacturing Company, on page 15, gives a hint as to the strength and convenience of the Never-Sag farm gate. It is a light, strong, durable and cheap gate. It is so cheap in fact that it can be made cheaper than a board gate, while in other points it is absolutely superior. It subserves all the purposes of a farm gate. The manufacturers also sell barn and hay tools, litter carriers and other barn fixtures. Their circular may be had by writing a request to the Hackney Manufacturing Company, 406 Germania Life Bldg., St. Paul, Minn.

The Brown Fence a Real Fence.

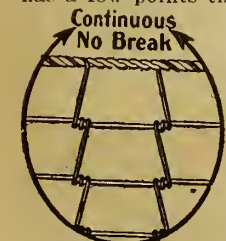
The advertisement of the Brown woven wire fence will be found on page 14. The Brown fence is recommended because its strength and durable qualities are beyond question. It is good all over and good all the time. It has a strong, heavy stay or upright, which is just as important as a heavy lateral. In addition to these points the Brown is more perfectly galvanized than any other fence made and the durable qualities depend upon the galvanizing. Farmers who have not made their purchases should read the advertisement and then send for Brown's fence book, addressing their inquiries to the Brown Fence & Wire Co., Dept. 34, Cleveland, Ohio.

Lumber at Living Prices.

Farmers who are planning to build during the coming season will find in the announcement of the C. Hafer Lumber Company, on page 7, information that may be the means of saving a considerable amount of money on material to be used. The Hafer Lumber Company have been in the business a good many years. They sell lumber in large quantities and are able to supply the needs of any builder by purchasing direct from them an immense saving may be made. This applies not only to lumber, but also to mill work, builders' hardware, roofing and cement. The entire order for building material may be included in a lump. The Hafer Company pay the freight on carload lots. Note the special offer in the advertisement and for further information forward the coupon in the advertisement to the C. Hafer Lumber Company, Council Bluffs, Iowa.

Advance in Fence Buying.

The Advance fence, which is advertised on page 15 and an illustration of which appears herewith, has been on the market so long that it seems unnecessary to speak of its merits. However, we venture the statement that it has a few points that will bear special reference. One of these is that the Advance fence is made of solid wire. The stay wire is continuous, woven in with the main top and bottom wire and running the entire width of the fence from one stay to the next so that the Advance fence is always rigid. It is made



of open-heart steel galvanized wire with a heavy coat of 99 per cent spelter which renders it as nearly rust proof as a fence can be made. The Advance is sold at a price which compares favorably with even the cheaper fences. Besides that it is sold direct to the farmer from the company's factory and freight prepaid to destination. Then, too, it is sold on a thirty days' free trial so you know exactly what you are getting when you take it. For

other information write to the Advance Fence Company, Box 107, Elgin, Ill.

An Automobile That Is Not a Luxury.

The McIntyre car is advertised on page 9 and some prices are quoted in the advertisement that cannot fail to attract wide attention. The fact that a fourteen horsepower McIntyre motor buggy may be sold at the low price of \$550 is a surprising one. It shows that farmers who wish to use an automobile may do so without the investment of an extravagant price. The McIntyre is recommended as a high-grade car. It is built for service and at the same time has a highly-attractive appearance. Its simplicity commends it. For catalogs giving prices and special information with respect to the \$550 car write for Book 12 to the Wm. H. McIntyre Company, Auburn, Ind.

Attractive Kitchen Furniture.

In the advertisement of Sears, Roebuck & Co., on page 39, there is an illustration of a solid oak kitchen cabinet that is sold direct to our readers at the extraordinarily low price of \$13.85. The price cannot be equaled anywhere. The beauty of the cabinet makes it an ornament to any kitchen, as well as one of the most useful articles in the house. Read the description carefully and if you are in need of other furniture fill out the coupon attached to the advertisement and forward it to Sears, Roebuck & Co., Chicago, Ill., and in return you will receive the One Hundred factory furniture book which describes all lines of furniture and quotes prices from one-third to one-half less than the same goods can be bought for at retail stores.

A Free Fender Adjuster.

Everyone knows the difficulty that arises when plowing corn of keeping the fenders in such a position as to protect the corn under all circumstances. The ordinary cultivator has the fenders so adjusted that when the disks or shovels are raised the fenders also raise and leave the corn unprotected. Mr. Cyrus W. Williams, of Turney, Mo., having noted the need of an effective fender adjuster put his time and attention to the perfection of such a device and the result is announced in his advertisement on page 8. The details concerning this fender and the way by which any reader of The Homestead may secure one free of charge are fully described in that advertisement. Additional information may be had by addressing a postal card to Mr. Cyrus W. Williams, Turney, Mo.

How to Spell Prosperity.

Farmers who have investigated the matter say that Planet Jr. drills and seeders spell prosperity. The Planet



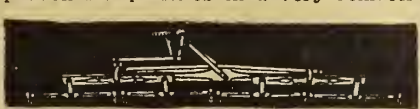
Jr. in its most perfected form is the No. 8, which is a combination hill and drill seeder, wheel hoe, cultivator and plow which does the work of six men. It is illustrated herewith. There is a growing demand for more intensive work on the farm and in the garden and this little machine fills a place that the larger farm tools cannot do. It is fully described and extremely low prices given in a circular which is sent on request by S. L. Allen & Co., Box 1105-D, Philadelphia, Pa. See page 21.

The Hay Seller's Friend.

The hay press is a machine which, from the time of its first introduction up to the present, has continued to grow in public favor. The advantages of handling baled hay or straw over the more cumbersome loose methods are so many and so plain to be seen that baling hay has become a common practice. The same is true with shredded fodder and numerous other materials. As a favorite among presses the Wolverine, advertised on page 30, stands in a class by itself. It is built with wood or steel frame. It has the advantage of perfect work, durability, ease of operation and excellence of output. The Wolverine has gained so greatly in favor that the manufacturers have been compelled to increase their facilities from time to time until today they have in operation the largest hay press factory in the world. Those who do not know of the advantages of the Wolverine should write for a free copy of the Wolverine book which may be had by writing to the Ypsilanti Hay Press Company, 207 Forest St., Ypsilanti, Mich.

A Scientific Evener.

For generations of farmers there has been continued effort to produce an evener that would accomplish the purposes for which it was designed. Few of them have been successful. Perhaps the most successful and one which has proven its qualities in a very remarkable



degree is the Heider evener, manufactured by the Heider Manufacturing Company and advertised on page 14 of this paper. The little engraving which appears herewith shows one of the styles of the Heider evener. It is made for two, three, four or six horses. The four-horse evener is designed for gang, sulky or disk plows, with four horses walking abreast with one in the furrow and three on land. The firm manufactures a number of other different articles, as enumerated in the advertise-

ment. For special evener circular write to the Heider Manufacturing Company, Dept. 16, Carroll, Iowa.

Fenn Post Hole Auger.

An advertisement on page 14 of this paper shows in detail the simple construction and effectiveness of Fenn's adjustable post hole auger. This is a post hole digger that works in any sort of soil, wet or dry. It may be adjusted to dig post holes of different sizes. It is the only digger which will dig a hole the same size all the way down to the bottom. The manufacturers know its merits so well that they are willing to refund the purchase price if it does not do better work in a greater variety of soils than any other auger in the world. Read the advertisement and send for descriptive guaranteed circular and price list to the Fenn Manufacturing Company, Box 12, Charlotte, Mich.

Shinn's Heavy Copper Cable.

Mr. W. C. Shinn, of Lincoln, Neb., takes up the entire space on page 56 of this issue with an interesting setting-forth of the importance of Shinn's heavy pure copper cable lightning rods. The Shinn cable is 99.88 per cent pure copper and, therefore, has a capacity to carry as great a charge of electricity as any lightning rod made. The farm buildings should be protected against lightning. Insurance statistics show that 75 per cent of the losses of farm buildings are due to lightning. Insurance companies make a reduced price on property that is well rodged. Read the advertisement carefully and note all the interesting statements which it gives, then fill out the coupon in the advertisement which asks for the book, "Lightning and How to Control It," and forward to Mr. W. C. Shinn, 101 North 16th St., Lincoln, Neb.

The Appleton For Quality.

The big advertisement of the Appleton manure spreader which will be found on page 19 of this issue contains some detailed information concerning that machine which ought not to be overlooked by any farmer. The Appleton is the old-time machine which has done continuous service under all conditions. It fulfils all obligations by doing the work well, by its durability and by its reasonable cost. The manufacturers, in order to stimulate interest in the Appleton spreader, are offering to distribute \$100 in cash prizes for the best ears of seed corn to be raised during the coming season. Full particulars concerning this seed corn contest may be had free. For copy of the big book about manure spreaders fill

out the coupon in the advertisement and forward it at once to the Appleton Manufacturing Company, 39 Fargo St., Batavia, Ill., and the book will be sent you by return mail.

The Wolverine Hay Press.

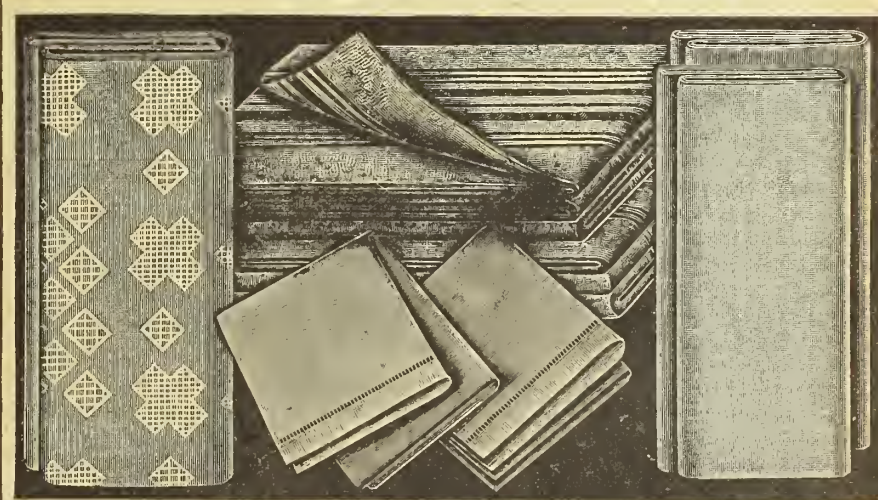
The Wolverine hay press, an advertisement of which will be found on page 30, has merits not possessed by other presses. It is built in four different sizes, with either wood or steel frame, and with the various equipments to suit the requirements of all purchasers. It does not claim to be the cheapest press made, but it does claim to do its work just as well and as economically as any other press can. The Wolverine book, giving many testimonials and complete descriptions, as well as prices, may be had on request to the Ypsilanti Hay Press Company, 207 Forest St., Ypsilanti, Mich.

EXCELL IRON and STEEL ROOFING and SIDING
Send today for Free Book and bottom Factory Prices on Metal Roofing and Siding. Made in our own factory. Better than you can buy elsewhere at any price. Shipped at our risk. You **Send No Money** so you take no risk. Our guarantee and see what you buy before paying. Plan specify you pay nothing unless fully satisfied. Lowest prices on all roofing and roofing supplies sold straight to you from factory at real **FREE** Roofs! Guide—Write for this book today.
The United Factories Co., Dept. R28, Cleveland, O.

"MORE POTATOES"
From ground planted secured by use of the **KEYSTONE POTATO PLANTER** than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for catalog, price and full description.
A. J. PLATT, Mfr., Sterling, Ill.

OSGOOD SCALE
Pitless
Indispensable on every farm; saves the time and money you would spend on a public scale, and assures perfect accuracy always. Priced within your reach; good for a lifetime.
Osgood Scale Co., Box 103 Blghampton, N. Y.
Write for Catalogue \$45 to \$80

FREE! To every Lady Reader this Beautiful and Durable 7-PIECE BED SET



Consists of 2 Blankets, 2 Bleached Sheets, 2 Bleached Pillow Cases and 1 Bed Spread—All Full Size Pieces

Here is an opportunity whereby every woman in the United States can get this useful, expensive, 7-piece Bed Set, **Absolutely Free**. This Bed Set consists of 2 Blankets, 2 Bleached Sheets, 2 Bleached Pillow Cases and 1 large, White Bed Spread—7 full size pieces in all! All we ask is, that you sell a few cans of our Perfection Baking Powder and the Bed Set is yours. You can realize how easily, and with what little effort you can do this, for a full size cut glass pattern pitcher and 6 glasses are included with each can of Baking Powder, etc., in our offer No. 420. But this is not all. To every lady who sends in her name and address right away we will give in addition, as a Special Premium, **Absolutely Free**, the handsomely designed Parlor Lamp described opposite, with first order. You simply can't realize what a big offer this is until you see these beautiful premiums.

This Parlor Lamp FREE
We are determined to push our Baking Powder to the front and to get you to help us, we will send with your first order this handsome Decorated Parlor Lamp and it will not cost you a penny. Remember we will send the Lamp in addition to the Bed Set. This Parlor Lamp is 17 in. high with 8 in. decorated globe and all trimmings polished brass. These Lamps are going fast and if you want one write quick.

No Money Necessary You risk absolutely nothing. We will pay all freight charges and ship you the Baking Powder and send your Premium with the Baking Powder, and also send the Glass Pitcher and Six Glasses all together, and then we give you time to deliver and collect before remitting to us.

While it is on your mind, cut out coupon, write your name and address on same, so you can get our big Special Premium; also free our Mammoth Catalog and Premium List.

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367 N. Commercial St., St. Louis, Mo.
Gentlemen: Without cost to me, please send at once your Big Free Offer.
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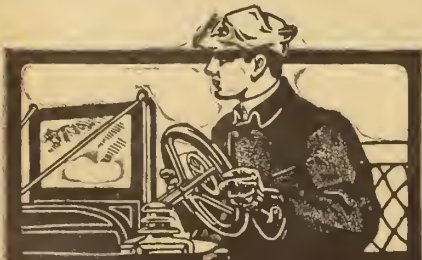
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Empire Auto Institute, 200 Empire Bldg., Rochester, N. Y.
The Original Automobile School.

LIVE STOCK SALES

The Holbrook Angus Sale.

The initial Aberdeen Angus sale of the spring season was that of Mr. M. H. Donohoe, at Holbrook, Iowa, on March 10th, and it proved to be one of the great sales held in recent years. Critical and discriminating Angus breeders had looked forward to this event as one of the important sales of the year and therefore the attendance was quite large. The cattle were in excellent condition and the breeding was all that could be desired. A striking feature was that there were many new men there who were not known to this breed heretofore. The sale was held in the new sale pavilion, the day was perfect and the crowd was in the humor to buy cattle. Nothing was left undone to care for the visitors, and the sale opened up under the most favorable conditions. The sale opened up with No. 1 of the catalog, Blackcap M., a yearling daughter of Black Woodlawn and out of the \$900 cow, Blackbird McHenry 66th. She went to Mr. John Cash, of Holbrook, Iowa, at \$500, and was a decided bargain. Mr. C. J. Martin secured No. 2, a daughter of the World's Fair cow, Blackbird 26th, at \$515. The Blackbirds were sold in regular order and were eagerly picked up at good prices. The top of the sale was the Trojan Erica cow, Ellore, a daughter of Western Star, bred to Black Woodlawn, and she went to Mr. O. V. Briney, of Marion, Iowa, at an even \$1,000. Oakfield Erica, her two-year-old daughter, went to Mr. J. E. Noon, of Holbrook, Iowa, at \$750. Stanley R. Pierce, Creston, Ill.; E. T. Davis, Iowa City; A. M. Horn, Florence, Iowa; Harvey Hess, Waterloo, Iowa; O. V. Briney, Marion, Iowa; Robinson & Chappell, Marysville, Mo.; J. V. Arney, Leon, Iowa; O. V. Battles, Maquoketa, Iowa, and others were excellent buyers and secured many of the good things that were offered. The average on all animals sold was \$319.37. The sale was certainly a credit to Messrs. Donohoe for their untiring efforts in building up the Angus breed. They have bought and bred the very best of cattle and the offering that they put through the ring at this time proves conclusively the wisdom of their judgment. Colonels Igo, Bellows and Jones cried the sale, assisted by W. G. Brock in the ring. Below we give list of buyers: Michael Cash, Holbrook; A. M. Harn, Florence; Stanley R. Pierce, Creston, Ill.; E. T. Davis, Iowa City; H. J. Hess, Waterloo; Buffon & Hines, Lafayette; W. A. Geiger, Marengo; G. W. Pelton, Knoxville; Wm. Reed, Marengo; Wm. Wiese, Atalissa; White Bros., Perry; E. Noon, Holbrook; A. G. Messer, Grundy Center; W. J. Hansen and D. H. Black, Holbrook; John Cash, Holbrook; John Wurzbacher, Morley; J. H. Maple, Wyoming; J. L. Randall, Russell; W. A. McHenry, Denison; F. O. McCarty, Holbrook; A. A. Armstrong, Camargo, Ill.; E. H. Cummings, Knoxville; John Jones, Parnell; Dwight Cutler, Iona, Mich.; C. W. Kinney, Lyons; Samuel Fullmer, Victor; C. H. Burger, Toledo; P. M. McNamara, Winterset; John Kivell, Creston, Ill.; M. J. McCarty, Holbrook. Oakfield Erica was later resold for \$800.

Sunny Slope Herefords Average \$140.50.

The dispersion of the Sunny Slope herd of Herefords, owned by Mr. C. A. Stannard, of Emporia, Kan., brought out buyers from Oregon, Illinois, Nebraska, Missouri, Oklahoma and Kansas. Fair weather prevailed and the three days' sale passed off nicely, with buyers getting good values for the prices paid. On the 158 lots sold a general average of \$140.50 was made. The herd bull, Beau Mystic, sold to Mr. Geo. Chandler, of Baker City, Ore., at \$1,010, the top of the sale. Mr. Chandler secured one of the greatest bulls of the breed. He was also a heavy buyer of good females and topped the female offering with Lot 105, a Tranquility cow, at \$475. Mr. G. W. Newman, of Emporia, Kan., who was a buyer of many good things, took Lot 16, Beau Mystic 11th, at \$700. Mr. Newman also bought the yearling show heifer, Mary D. by Beau Mystic, at \$400. Mr. Geo. Christopher, of Valentine, Neb., was a liberal supporter on the better lots and secured several good things, among them being Lot 81, the two-year-old show heifer, Jewel, a daughter of Beau Mystic, at \$325. Mr. R. M. Dobson, of Independence, Kan., secured in Beau Mystic 39th a very valuable young yearling bull, the purchase price being \$410. The Sunny Slope cattle will undoubtedly prove valuable investments and add to the herds to which they go. Colonels Woods, Bellows, Edmonson and Scofield conducted the sale. Following is a list of the buyers: Geo. Chandler, Baker City, Ore.; F. O. Bircke, Mulhall, Okla.; G. W. Newman, Emporia; R. M. Edwards, Gretna; R. M. Dobson, Independence; Geo. Christopher, Valentine, Neb.; J. F. Gulick, Jasper, Mo.; J. B. Shields, Lost Springs, G. M. Oyster, Paola; F. E. Cheadle, Chewkeet, Okla.; J. B. Thomas, Pond Creek, Okla.; H. E. Jackson, Neosho Falls; H. Wicke, Ludell; Jno. Focke, Ludell; Fred Koehler, Cheney; S. O. Thompson, McPherson; W. L. Meyers, Phelps, Mo.; R. G. Lumler, Emporia; G. S. Gillum, Gypsum; Mack & Pollman, Baker City, Ore.; B. M. & W. J. Brown, Fall River; W. L. Wood, Strong City; H. G. Hagen, Hinkley, Ill.; M. A. Pacenka, Bremen; Whiteford Bros., Ossawatimie; J. P. Fleming, Apavie; O. W. Norman, Adrian, Neb.; J. E. Patch, Emporia; Dr. Welch, Hart-

ford; P. Grant & Son, Woodbine; A. Brown, Woodston; E. S. Jones, Emporia.

Petty Bros.' Jack Sale.

The sale of jacks and jennets held by Messrs. Petty Bros., of Sedalia, Mo., on March 3d, was well attended by men who had been in attendance at the previous sales and a large local crowd. Unfortunately, the great jack, Tennessee King, had been sick for several days and was not offered. Two or three other high-class jacks had gone lame and this had a further tendency to hurt the general result of the sale. Messrs. Petty Bros. had substituted jacks to make up the list, but substitutes never sell as do jacks that are cataloged. The top was \$1,610, paid by Mr. Miller Rogers, of Bunceton, Mo., for Lot 6, Tunsdale, a two-year-old jack, and the average of all animals sold was \$486.55. This set a new world's record for jacks of this age. Messrs. Petty Bros. carried out their end of the program without a murmur, even though the prices showed a loss in many instances. They will continue breeding and gathering up good jacks and jennets for the trade and are bound to succeed. Colonels Harriman and Sparks and assistants in the ring did the selling. Following is a list of the buyers: Geo. L. Criderman, Solomon, Kan.; E. T. Hanby, Balco, Kan.; J. W. Lowry, Bowling Green; Jno. Campbell, Parsons, Kan.; J. F. Robinson, Nevada; Joe Tyler, Edmond, Okla.; J. W. Ferguson, Stromsburg; A. Arnold, Sedalia; Geo. Finley, Nelson; A. H. Johnson, Sisco, Texas; G. M. Jackson, Calhoun; G. L. Levitt, Wilson; W. D. Stoller, Vinton, Iowa; J. N. Hickman, Crosstimber; J. G. Callison, Windsor; M. M. Bradley, Warrensburg; N. P. Reed, Pilot Grove; C. W. Daugherty, Sedalia; T. G. Hann, Uniontown, Kan.; A. Myers, Prairie View, Kan.; W. W. Caruth, Dallas, Texas; E. H. Hawkins, Salem; J. H. Detmar, Sedalia; J. P. Craig, Pittsville; P. Kaufman, Savannah; H. H. Taylor, Sedalia.

Breeders' Sale at Kansas City.

The sale of Hereford cattle held at Kansas City on March 8th and 9th was not so well attended as it should have been. The contributors to this sale were C. W. Armour, Kansas City, Mo.; S. L. Standish, Hume, Mo.; Benton Gabbert, Dearborn, Mo.; C. N. Moore, Lee's Summit, Mo.; J. W. Lenox, Independence, Mo.; W. A. Dallmeyer, Jefferson City, Mo.; S. J. Gabbert, Dearborn, Mo.; James A. Gibson, Odessa, Mo.; R. T. Thornton, Kansas City, Mo.; Funkhouser Estate, Plattsburg, Mo.; Egger Hereford Cattle Co., Appleton City, Mo.; T. W. Carmichael, Odessa, Mo.; Makin Bros., Grandview, Mo.; Scott & March, Belton, Mo. These gentlemen send to these annual sales some of the best cattle they produce and buyers find here as good bargains as are to be had. Ninety bulls were most too many, as the demand from the range was limited. Two bulls sold for \$400 each, the top price reached in the sale. Lot 82, Garfield 4th by Columbus 53d, consigned by S. J. Gabbert, went to F. H. Woodbury, of Olivett, Kan., at this price, and Lot 2, Onward Lad by Onward 46th, consigned by the Funkhouser Estate, was the other bull to sell for this amount. J. F. Sifers, of Hutchinson, Kan., being the buyer. Lot 85, a fifteen-months-old son of Columbus 53d, was taken by Mr. Overton Harris, of Harris, Mo., at \$300. The top on females was \$265, paid by Mr. Henry Kuhlman, of Chester, Neb., for Lot 17, a Beau Donald 47th heifer contributed by Mr. W. A. Dallmeyer, of Jefferson City, Mo. Good bargains were to be had in females and those who bought will make money on the purchases. Sixty-one bulls sold for \$6,650, average of \$109.01. Twenty-five females sold for \$2,770, average \$110.80. Eighty-six head sold for \$9,420, average \$109.63. Col. Geo. P. Bellows did excellent work in the box and was assisted by Colonels Zaun and Rogers. Following is a list of buyers: W. A. McVey, Trenton; J. F. Sifers, Hutchinson, Kan.; Geo. F. Boles, Lubbock, Tex.; Wm. Henn, Denver, Colo.; Wm. Kuhlman, Chester, Neb.; G. A. Sidwell, Queen City; W. M. Sweetman, Kansas City; G. B. George, Gun City; Henry Kuhlman, Chester, Neb.; O. Harris, Harris; L. B. Davis, Elk City, Kan.; Chris Kuhlman, Chester, Neb.; J. S. Sprecht, Nortonville, Kan.; J. W. Tolman, Paola, Kan.; J. C. Allen, Bedford, Iowa; S. A. Neal, Sweet Springs; R. T. Thornton, Kansas City; Roger Jones, Redding, Kan.; T. S. Smith, Mt. Leonard; T. Bass, Kansas City; J. W. Lenox, Independence; C. W. Armour, Kansas City; S. L. Standish, Hume; D. W. Shafer, Liberty; Ed Harrison, Piedmont, Kan.; Alfred Ramsey, Dawson, Neb.; J. W. Cochran, Marshall; J. O. Van Osdel, Bucklin; W. B. Wallace, Holden; Henry Baker, Chester, Neb.; Tim Murphy, Maryville; Leon Doty, Armour, Neb.; Drennan Bros., Blue Rapids, Kan.; A. P. Larnquist, St. Joe; F. H. Woodberry, Olivett, Kan.; Oliver Cox, Weston; John Zajic, Red Cloud, Neb.; Earl McElmurry, Wellington; A. B. Siler, Weston; O. W. Johnson, Blue Earth, Minn.; T. Y. Carmichael, Odessa.

Ryan's Duroc Jersey Sale.

The sale of Mr. E. B. Ryan, of Neola, Iowa, was well attended by breeders, but the farm support was lacking on account of Saturday and some distance from town. But Col. Fred Reppert made a fair average of \$30 on the entire of-

fering. The top of the sale went to Mr. J. P. Garner, of Weston, at \$56, not a high price, but she was good and should have demanded more money. Mr. Garner also got a great bargain in No. 1. In fact, she was the choice of the herd. Below we give a list of those paying \$25 or over: J. H. Garner, Weston; S. R. Hamit, Logan; Grant Winslow, Neola; C. Mohler, Neola; E. E. Brown, Logan; Guy Pangburn, Bagley; W. F. Mohatt, McCool, Neb.; J. P. Garner, Weston; F. A. Melvin, Murdock, Neb.; J. M. Dillon, Neola; Geo. Bowman, Coon Rapids; Aug. Voge, Portsmouth; F. S. Kinyon, Missouri Valley; J. M. Ericson, Neola.

SHORT-HORN HERD BOOK.

Volume 73 of the American Short-horn Herd Book is now ready for distribution. It contains the pedigree of 8,000 bulls numbering from 299001 to 307000, and 12,000 cows, the pedigrees of which number from 35001 to 47000. The price of this volume is \$1 at the office of the association, or \$1.30 prepaid. Volume 74, containing the pedigrees of 9,000 bulls and 11,000 cows is well started with the printer, but it will not be through the press for about four months, and Volume 75 has also been filled, so that pedigrees are now being placed on file for Volume 76.

Those interested should write Secretary John W. Groves, Union Stock Yards, Chicago.

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Is it worth 4 cents per head per year to have your hogs free from lice and other profit-eating parasites? Send me your name and let me tell you how my **RUBBING POST** will do this. Cheapest and most effective method in use. No labor required. Works the year 'round. Not dangerous to heavy brood sows. Write for price and description.

S. B. WASSON,
413 S. Washington Street,
PEORIA, ILLINOIS.

FARM WAGON COVERS

Farmers who have bought them say that they pay for themselves in less than a month. Every farmer needs a 6x12 Slickerine waterproof wagon cover. They only cost \$4.40. Write today. Peoria Tent & Awning Co., 119 Main Street, Peoria, Illinois

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.
Mar. 29, Earl Moharg, Audubon, Iowa.
Apr. 4, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
Apr. 12, Thomas & Ellison, Rushville, Ind.
Apr. 20, Geo. McMaster, Bedford, Iowa.
Apr. 28, Henry H. Kuper, Humboldt, Neb.
May 20, W. E. Cutler, Corydon, Iowa.
June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
June 2, J. G. Biller, Hartington, Neb., at Crofton, Neb.
June 14, Bellows Bros., Maryville, Mo.
June 16, N. A. Lind, Rolfe, Iowa.
June 21, Jesse Binford & Sons, Liscoomb, Iowa.
June 18, H. D. Parsons, Newton, Iowa.
Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
Dec. 21, Ed Morgan, Kanaranzi, Minn.
Dec. 22, Walpole Bros., Rock Valley, Ia.
Aberdeen Angus Cattle.
Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
May 24, J. M. Graham, Indianola, Iowa.
May 31, H. J. Hess, Waterloo, Iowa.
June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
June 6, James Williams, Marcus, Ia.
June 7, Stanley R. Pierce, Creston, Ill.
June 9, J. W. Wheatley, Kempton, Ind.
Oct. 4, Silas Igo, Indianola, Iowa.
Oct. 5, White Bros., Perry, Iowa.
Oct. 19, Chas. Escher & Son, Botna, Ia.
Oct. 20, C. M. Russell, Carroll, Iowa.
Hereford Cattle.
Mar. 29, E. O. Nervig, Slater, Iowa.
Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
Apr. 16, James E. Logan, Kansas City, Mo.
Oct. 20, H. D. Clore, Chariton, Iowa.
Holstein-Friesian Cattle.
June 21, 22 and 23, Robt. E. Haeger, Algonquin, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
Fred S. Larkin, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address 2525 Erskine St., Omaha, Neb.
A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FILED NOTES.

Heavy-boned Mammoth jacks and jennets and a trotting-bred registered stallion will be sold on Thursday, March 24th, at Falls City, Neb., by Mr. J. F. Scarlett, as per advertisement appearing on page 47 of this issue.
Mr. G. E. Nichols, of Patterson, Iowa, is offering Hereford bulls for sale at farmers' prices in his advertisement that appears on page 49. These bulls are of the March On, Mariner and Perfection blood lines.
Mr. Amos Hanson, of Collins, Iowa, is describing and pricing a young Percheron stallion in his advertisement that appears on page 52 of this issue. He is also setting out some interesting facts. Further information in regard to this animal can be had by writing to Mr. Hanson at the above address.
Scotch Collie puppies are offered for sale by Mr. W. L. Bonnett, of Birmingham, Iowa, in his advertisement appearing on page 26 of this issue. In furnishing copy Mr. Bonnett writes: "My puppies are full-blood Scotch Collies. They are a nice sable color with white markings and are from trained parents. I will give pedigree with each pup." The prices at which Mr. Bonnett will sell his puppies are named in the advertisement.
The Richmond Guernsey herd of seventeen head of milk cows and heifers, owned by Messrs. Ben Clark & Son, at Whitewater, Wis., in January, 1910, averaged 36.17 pounds of butter fat per cow. The ration fed the members of the herd was ten pounds of ground barley, thirty pounds of ensilage, seven pounds of sorghum and five pounds of alfalfa. This allowance was of course only for the heaviest milkers. Cows which had been in milk longer only received five pounds of grain.
Mr. H. S. Allen, breeder of Duroc Jersey hogs, at Russell, Iowa, makes a change in his advertisement as it appears on page 51. In his letter ordering this change Mr. Allen writes as follows: "I have never had such a trade on boars. They are now most all sold. We have a few choice fall gilts for sale, sired by Crimson Wonder Again. Three of these are good show prospects and the others will make great brood sows. Their dams are of the best of breeding, being daughters of Valley Chief, Prince of Cois, and Advancer. Two of them have for dam Missouri Girl, the dam of H. A.'s Queen and H. A.'s Choice Goods. You can buy these gilts worth the money, as we raise them to sell. We have sent boars to Ohio, Illinois, Indiana, Iowa and

Canada in the last month. Our bred sows are all sold. We have booked orders for others bred for fall litters. We only have a limited number bred to Crimson Wonder Again for fall litters and some of these are already spoken for. Please don't forget that Crimson Wonder Again sired more prize winners at the state fairs of the past two years than any other boar east or west."

A letter from Manager J. G. Truman, of the Pioneer Stud Farm, at Bushnell, Ill., dated March 9th, says: "A cablegram from our Mr. J. H. Truman advises us that he has shipped us on the Minnewaska, sailing from London, March 5th, another grand selection of Shire stallions and mares direct from the great London Shire Horse Show. This is perhaps the most select lot of Shire horses that has been imported to this country. In addition to the importation we received last week this gives us over 100 imported Shire horses for sale. Your readers need not hesitate to come and see the largest selection of imported Shire horses in the United States." See the advertisement on page 55.

Jones He Cries the Sales.
Col. Carey M. Jones, the popular young auctioneer whose advertisement appears on page 48 of this paper, writes us that he is booking the best list of sales he has had for the past five years. He has, however, a few good open dates left and will be glad to accommodate those who contemplate

buying some rare values in stallions that have their entire lives of usefulness before them. See page 53 for Mr. Miller's advertisement and address. When writing or visiting him kindly mention this paper.

Common Sense in Calf Raising.

The methods of farming at the present time make it out of the question to feed whole milk to calves. Economy compels the feeding of skim milk, but skim milk alone is a very imperfect feed and one which in its exclusive use must result in deterioration and actual harmful effects to the calf. A feed which answers every purpose is Sugar-corn, as advertised on page 18. This is a perfectly-balanced food and by its use calves may be raised profitably and well. For an interesting book on the subject of raising calves write to the manufacturers, North-West Mills Company, 519 West 3d St., Wadena, Minn.

A Responsible Importing Firm.

The advertisement of Messrs. Taylor & Jones, importers and breeders of Percheron, Shire, Belgian and Coach horses, as well as Short-horn cattle, will be found on page 52. There is no firm of importers in the United States who have a better reputation than Messrs. Taylor & Jones. They have been in the business for a great many years and they have raised and imported horses that have been a prominent factor in the development of the draft horse interests of America. They have both stallions and mares for sale in their barns of high quality and

is offering him cannot remain long unsold. A twenty-one months-old calf by the same sire, dam a cow by Lavender Lad, he by Duke of Oakland 2d, is also an extra good one. He is a solid red, low down, wide and of the real beef-making type. Mr. Ballard is pricing this bull at a much lower figure than we consider him worth. Bull buyers will do well to go and see these cattle or address an inquiry to Mr. J. R. Ballard, Ames, Iowa.

Ford Stock Farm Percherons and Belgians.

Please take notice of the change in the Ford Stock Farm advertisement. As the season is getting well along for selling stallions, the Ford Stock Farm, at Parker, S. D., are offering imported Percheron and Belgian stallions from two to four years old, at the very low price of \$700 to \$1,400; also American-bred, from two to three years old, from \$400 to \$900. They are making these very low prices in order to move them this spring and not have to carry them over to another season, and anyone wishing to buy stallions of either one of the two most prominent breeds should avail themselves of this opportunity. They have the very best of both imported and home-bred stallions and they invite your personal inspection of these horses and then you will be convinced. See their advertisement on page 52. When writing or going to see them, please mention The Homestead.

The Original Incubator.

Mr. Geo. H. Stahl, of Quincy, Ill., is said to be the original inventor of the incubator. The hint which lead him to the experiments resulting in a perfected machine is said to have been given by the firm with which he was employed having a combination shipment of wool and eggs in the same car. Some of the eggs were found to have started germination. This lead Mr. Stahl to infer that the germination was caused by the heat supplied by the wool. Following the idea he soon rigged up an incubator and completed the hatching process. From that time until the present Mr. Stahl has not flagged in his endeavor to make his Excelsior incubator one equaled by no other. He has issued a very handsome catalog which gives complete descriptions of the Excelsior, together with much other valuable information on the subject of poultry raising. It can be had without charge by writing to Mr. Geo. H. Stahl, of Quincy, Ill. See his advertisement on page 25 of this paper.

The Greeley Horse Importing Company.

The advertisement of the Greeley Horse Importing Company is a prominent feature of our advertising pages. It puts forward some of the arguments of that establishment which cannot well be overlooked by horse buyers who wish to serve their own interests. Importations are constantly being made from the old countries of Percherons, Belgians and Shires, as well as Coach horses of the various breeds. Buyers may be accommodated, whether they want a single animal or a car load. They will find quality of the best, just as well as some of the more ordinary ones to suit the cheaper demand. One member of the firm is constantly in the old countries picking up good horses for the trade and as he has been engaged in this line of work for a good many years he possesses a wide acquaintance with the people and their language and can, therefore, secure bargains that would not be available to the stranger. This concern is under the management of Mr. A. B. Holbert, a pioneer importer and breeder and one who treats every customer in such a way as to make him a friend. Better go to the barns at Greeley, Iowa, and look over the stock. If unable to do so send for a copy of their recently-issued catalog, addressing request to Mr. A. B. Holbert, Mgr., Greeley, Iowa. See advertisement on page 55.

Saddle and Speed Horse Event at Onward Wilkes Farm.

Mr. Jas. Houchin, of Jefferson City, Mo., proprietor of the Onward Wilkes Farm, is arranging for an event for April 11th and 12th at the farm that should attract lovers of gaited saddle horses and those interested in speed horses. The Onward Wilkes Farm is the home of champions. America's greatest saddle stallion, Astral King, that was grand champion in 1909, is owned by Mr. Houchin and is in service in the stud. It is Mr. Houchin's ambition to establish a regular event at Jefferson City at which time 100 head of high-class horses will be sold at auction. For this event on April 11th and 12th, 100 horses are to be sold. Last week at the record-breaking Limestone Valley Farm sale Mr. Houchin bought the great Jack, Bartone Mammoth, paying the world's record price of \$3,030 for this noted son of the World's Fair champions. Mr. Houchin also bought the top saddle stallion of the Limestone Valley Farm stud, June King by Forest King. Few such stallions are found and at \$710 he was a great bargain. Mr. Houchin loves the saddle horse, breeds them strictly for style and action, then trains and gait them properly so that those who patronize the Onward Wilkes Farm stud may find there just what they want. See page 46 for Mr. Houchin's advertisement and write him for more complete information. Mr. Houchin solicits consignments from parties who have high-class saddle or speed horses. He will sell from his stud twenty head of gaited saddle horses, five head of walking horses and ten head of speed horses. There are among the speed horses some that have shown as low as 2:12 and 2:15 gait as green horses. Mention of several of

NEXT WEEK'S SALE PROGRAM

Wednesday, March 23 { Percherons, Combination Sale, J. B. McMillan, Mgr., Sioux City, Iowa.
Thursday, March 24 { Short-horns, Combination Sale, F. H. Burt, Mgr., Sioux City, Iowa.

making sales. For additional information write to Col. Carey M. Jones, 2856 Washington Boulevard, Chicago, Ill.

Watson, Woods Bros. & Kelly Company's New Importation.

Messrs. Watson, Woods Bros. & Kelly Co., of Lincoln, Neb., well-known importers, have just received another importation of Percherons, Belgians, and Shires personally selected by Mr. Jos. Watson. These horses have not been "picked over" and the man who seeks a first-class horse should at once see them. They have horses to please the most exacting and are offered at reasonable prices. See page 55.

Picking Them Out Ahead of the Bat.

Mr. D. W. Howie, Jr., proprietor of the Sunny Peak herd of Jerseys, at Elm Grove, Wis., writes: "The calf which was to have been advertised in the next issue of The Homestead has already been sold to a Bellevue, Iowa, man. Just tell your readers that Violetta Victoria dropped a bull calf on December 27, 1909, and if one of them wants a grandson of Golden Fern's Lad that will be a bull worth having take this one. He is sure some bull."

Of Interest to Jack Buyers.

Farmers or horsemen who are in the market for jacks will be interested in the fact that Messrs. Jesse Binford & Sons, of Albion, Iowa, have for sale two animals of more than ordinary merit. One of these is a six-year-old, tried animal that is right in every way. A number of his colts on the farm show for him. The other is a three-year-old and equally as promising. Messrs. Binford wish to dispose of one of these animals and in order to do so at once will quote an extraordinarily low price on either that the buyer may select.

High-Class Barred Plymouth Rock Eggs.

Those of our readers who are looking for something very choice in Barred Plymouth Rock eggs should read the advertisement of Mrs. L. C. Reese, of Prescott, Iowa, on page 27, and write her for her prospectus which she is making to all applicants. She has the very best stock from Bradley and Thompson strains, every bird scored and every one a good one. Her Pen A is a pullet mating and Pen B a cockerel mating, and Pen BP is a pure Bradley pen. The critical breeders of Barred Plymouth Rocks should not overlook Mrs. Reese, as she has one of the very best flocks of Barred Plymouth Rocks in the state. Kindly mention The Homestead when writing.

Percheron Mares Bred to Carnot, Champion of 1909.

Carnot 66666, champion stallion at the International, is probably the greatest Percheron stallion imported in recent times. Mr. S. J. Miller, of Kirksville, Mo., the well-known importer of Percherons, when in France, in December, secured several fine mares that were safe in foal to Carnot. He bought them, brought them to America and offers them to those looking for high-class stock. As Carnot was reserved by the French government as a stud stallion, none but high-class mares were eligible to his service, hence Mr. Miller has mares that were considered as among the very best in France. They show heavy in foal and those looking for top mares will make no mistake here. Mr. Miller also brought over a great string of young stallions and is prepared to show the American

make prices as reasonable as can be procured from any others. Additional information may be had by writing Messrs. Taylor & Jones, Box 68, Williamsville, Ill.

Shetland Ponies for Sale.

Mr. Sherman Edwards, of Bondurant, Iowa, advertises on page 47 that he has for sale four Shetland ponies. These consist of a matched team of three-year-olds, one five-year-old and one yearling. All of these are mares. Three of the oldest have been bred to an imported pony that was winner of third prize at the Iowa State Fair last fall. Reasonable prices will be quoted on these ponies. For additional information write to the address given.

Clovermead Polled Durhams.

On page 49 of this week's Homestead Mr. Wm. Barrans, of Lenox, Iowa, is offering a few yearling Polled Durham bulls, heifers and heifer calves for sale. These bulls are about one year old. The oldest one was a year old March 1st and he has two more that will be a year old in April. These bulls are in good condition. Write Mr. Barrans about these bulls and heifers if you are looking for Polled Durhams, and kindly mention The Homestead.

Pioneer Short-horn Herd.

As will be noted in their advertisement on page 50, Messrs. Jesse Binford & Sons, of Albion, Iowa, announce that they have for sale a number of good young Short-horn bulls. The Binford herd is one of the older ones in central Iowa. It has been a source from which buyers from time to time have taken a lot of extra good cattle. At the present time, while the animals are not in a high condition of flesh, they are offering some bulls of more than ordinary merit. A representative of The Homestead looked over them last week and reaches this conclusion from personal observation. The herd contains not only some excellent Scotch females, but some Scotch-topped ones of almost equal merit. Buyers who want to get a line on something about right will do well to write to Messrs. Binford without delay.

Ballard's Short-horn Herd.

Mr. J. R. Ballard, of Ames, Iowa, has a nice little herd of Short-horn cattle and on page 50 advertises that he has for sale a few excellent young bulls. Mr. Ballard has at the head of his herd a fine red bull, Lavender Fitz, and the calves offered for sale are of his get. Lavender Fitz is a son of old Fitz Eustace, the great Cumberland bull that was so many years at the head of Mr. John Rasmussen's herd, at Lake City, Iowa. Lavender Fitz is of the same general makeup as his sire, a wonderful, compact, well-formed fellow with good lines, deep, thick quarters, broad over the crops and loin and of strong, masculine appearance. He is unquestionably one of the better herd bulls to be found in the state of Iowa. The herd is a good one and composed of Secret, Young Mary and other prominent families. One of the young bulls offered for sale is a straight Scotch of the Secret tribe, fourteen months old, red in color with a few white marks. His dam was Stella's Beauty, a Moninger-bred cow and an individual of high merit. She also has strong milking characteristics, having made a butter record of fifteen pounds during the first twelve days of January and nine and one-half pounds the next seven days. The calf is a cracking good one and at the price at which Mr. Ballard

these will be made next week. The sale will be held at Houchin's driving park where every convenience for showing horses is most complete. In case of rain or bad going on the track, the cinder path can be used. The barns are commodious, with stall room for 100 head of horses.

An Enterprising Missouri Breeder.

Among the promising breeders of Poland China hogs in Missouri, Mr. Leslie McCormick, of Laddonia, occupies a prominent place. At the recent brood sow sale of Messrs. J. W. Pfander & Sons, at Clarinda, Iowa, Mr. McCormick paid the top price of the sale, \$175, for Anna Prospect 2d 124659. This is a tried sow and an extremely good one with a splendid record as a producer. She is a daughter of Pawnee Lad. There is size on both sides of this pedigree and in addition to that she was bred to Messrs. Pfander's Long King, one of the very biggest Poland China boars in existence. The cross cannot fail to be a good one, as it has been in the past. Mr. McCormick will be glad to book orders for boar pigs from this litter at reasonable prices. As there is already considerable interest in this mating we suggest that those who contemplate purchasing write at once to Mr. Leslie McCormick, of Laddonia, Mo.

Last Call for the Combination Percherons.

The following consignors will hold a combination Percheron horse sale in the sale pavilion at Sioux City Stock Yards, on March 23d: H. G. McMillan & Sons, Rock Rapids, Iowa; P. W. Moir, Orange City, Iowa; W. H. Kerr, Bennington, Neb.; O. D. Hart, LeMars, Iowa; Muirhead & Barr, Bradshaw, Neb. The consignment consists of twenty-five stallions and forty-five mares. Their ages are from yearlings to five-year-olds and all of them are of good Percheron type, low down, blocky, heavy boned and with good style and action. This sale will afford the last opportunity to buy Percheron stallions and mares in the Northwest this year, and without a doubt there will be some good, choice bargains to be had at this sale. The consignors are all well-known breeders of Percheron horses, and all of them are known to be straight and reliable men. The offering will be one of the best that has been presented for sale at public auction this year. There are many nicely-matched teams of mares in the offering and the most of them are showing heavy in foal. The ten yearlings that are in the offering are strictly first class, and of the very best of breeding. The catalogs are now ready, giving full description of both breeding and quality, and they may be had by writing to Messrs. H. G. McMillan & Sons, Rock Rapids, Iowa, mentioning The Homestead. Colonels Woods, Jones, McGuire and Murphy are the auctioneers, and Mr. J. B. McMillan sale manager. When writing for catalog please mention The Homestead. See page 55.

Short-horn Sale at Sioux City.

Fifty Scotch and Scotch-topped Short-horns will be consigned by four of Wisconsin's leading Short-horn breeders to the combination sale which will be held in Sioux City, Iowa, on March 24, 1910. The breeders who will contribute to this sale are Messrs. Fox & Gallagher, of Oregon, Wis.; W. T. Green, of Orfordville, Wis.; R. C. Jones, of Oregon, Wis.; and Frank H. Burt, of Brodhead, Wis. These men will contribute eighteen bulls and thirty-two females. There will not be an old animal in the entire lot. All of the stock is young and useful, and belongs to some of the very best families of the breed. The young bulls will be the get of such well-known sires as White Rock, Young Demonstrator, Gloucester Knight, Gloucester Echo and Onward. White Rock is a son of the noted Whitehall Sultan, known throughout the entire Short-horn world. He was out of the noted cow, Keepsake 5th. It would be difficult to find a better young sire than this bull has proven to be. His get are most uniform and noticeably excellent in every respect. Gloucester Knight was by March Knight, one of the bulls which has helped materially in creating the reputation of Mr. C. E. Clarke, of St. Cloud, Minn., as a breeder of Short-horns. He was the sire of Prime Knight, one of the sensations of the 1909 fair circuit. Messrs. Fox & Gallagher have both of these bulls in their herd and are more than enthusiastic over the possibilities for improvement which these sires offer. Young Demonstrator is perhaps too well known to breeders in the middle West to require much of an introduction. He traces through Demonstrator to Young Fellow. He was purchased from Messrs. Chamberlain & Rosa, of Beloit, Wis. These bulls left a most marked impress upon the Beloit herd. Young Demonstrator has been shown several different times and has always won marked recognition. Gloucester Echo is a young Gloucester bull which was purchased from the Cleghorn herd, at one time famous throughout Minnesota. He was used upon the Burt herd for several years and stamped his progeny with many of his excellencies. Many of the get of this bull have been sold in the Dakotas and are proving very useful animals. Onward, the sire in service with the Green herd, was by The Judge. He is a low-down, blocky fellow, but is nevertheless siring some very heavy milkers. Mr. Green's herd is very favorably known for its milk production and anyone looking for good beef animals coming from a milking lineage should take special notice of what this breeder consigns to this sale. There are several other bulls whose stock is being offered in the Sioux City sale, that deserve mention. However, space for bids extended comment upon these, it would be difficult, indeed, to collect a

better lot of stock than is being offered by these five men. The females are quite as excellent as the males. The next issue of The Homestead will contain an announcement of their breeding and merit. The catalogs contain description and pedigrees of all animals listed in the sale and may be secured by writing Mr. Frank H. Burt, of Brodhead, Wis., who is managing the sale. See the advertisement on page 50.

Herefords for Farmers.

The advertisement of Mr. E. O. Nervig, on page 50 of this paper, in which he announces his public sale of Hereford cattle to take place at Slater, Iowa, March 29th, is one that gives facts of more than usual interest to farmers who want to get into the beef cattle business. There is no denying the fact that the prospects for the beef producer are more flattering than they have been for many a long year. A part of this condition of affairs is due to a scarcity in the number of beef cattle of high quality. This is just the sort which go to make up Mr. Nervig's sale. The consignment is one of well-bred cattle and their strong lines of breeding are a guarantee that their produce shall carry the same lines of excellence. They are beef makers and will continue to be so. One point which stands particularly in their favor for the farmer is that they have not been fattened, overfed or fitted for this sale. They will go into the ring practically from the pastures, having been kept in the barns only long enough to break to lead. They are farm-raised cattle and accustomed to farm conditions and every farmer knows the advantage of securing this class of stock. Details of pedigrees or other information concerning this sale may be had by writing to Mr. E. O. Nervig, Slater, Iowa. While it is advised that buyers make their selections personally, those who find it inconvenient to do so may forward bids or instructions to Mr. C. C. Carlin, of this paper, who will be in attendance.

Guernsey Cattle For Sale.

The attention of our readers is directed to the advertisement of the Wilcox & Stubbs Co., on page 47. These gentlemen are breeders of Guernsey cattle and now have a herd of more than 200 head on their farm which is located near the station of Millman, on the Osceola branch of the C. E. & Q. railroad, five miles southwest of Des Moines. They are offering for sale young bulls, as well as cows and heifers. The bulls range from calves up to those of serviceable age. They are largely the get of the two herd bulls, Beau Donald and Lady's Glenwood. Beau Donald is a son of Prince Rosendale, that great old bull which, with his get, won more than forty prizes at two World's Fairs. Lady's Glenwood is a son of Glenwood Boy of Hadden. He and his record are familiar to all Guernsey breeders and stand high in the estimation of eastern dairymen. They do so for the reason that they have quality unexcelled. The two cows leading in the present Iowa state cow contest are half-sisters to Lady's Glenwood. A feature of this herd which will be of interest to buyers is the fact that it is a practical working dairy herd. The company keep the herd for strictly dairy purposes and sell milk in the city of Des Moines. Its superiority is proven by the fact that it sells readily at ten cents, an advance of about 25 per cent over the ordinary prices of milk in that city. The herd of nearly 100 cows tested out more than 5 per cent. To appreciate this fact it should be recalled that the test of the average cow in the country is around or less than 3 per cent. There are a great many important points connected with the pedigrees of the animals offered for

ONWARD WILKES FARM

JEFFERSON CITY, MISSOURI.

THE HOME OF THE WINNERS

COMBINATION SALE

OF HIGH-GRADE SADDLE HORSES, SPEED HORSES, BROOD MARES AND A FEW YOUNG JACKS

April 11 and 12, 1910

Ask for catalog. Consignment solicited.
Write us your wants. Also what you have to sell.
JAS. HOUCHIN, Proprietor. T. D. ANDERSON, Supt.

sale that would be appreciated by buyers. However, we believe that the practical accomplishments of the herd will be more carefully considered by farmers who hope to get more strongly into the dairying business. The present interest in Guernsey cattle is growing so rapidly that those who are in search of breeding animals, either male or female, should not fail to investigate this offering. Prices, descriptions or other information may be learned by writing to the Wilcox & Stubbs Co., Des Moines, Iowa.

A Rising Young Auctioneer.

We present herewith a portrait of Mr. Pliny Nichols, of West Liberty, Iowa. Mr. Nichols is a young man who



has taken up the work of the live stock auctioneer and has done so in such an energetic and promising way as to have already gained an excellent reputation in his chosen profession. He is a son

of Pliny Nichols, Sr., who was for many years one of the leading lights in the Short-horn history of the state of Iowa. He is, therefore, well versed not only in pedigrees, but the importance of pedigrees and in the individual characteristics of good animals. Mr. Nichols solicits correspondence with those who are about to make fine stock sales. Address inquiries to Mr. Pliny Nichols, West Liberty, Iowa. See page 49.

Maharg's Short-horn Sale.

One of the important Short-horn events of the spring season will be the sale of Mr. Earl Maharg, at Audubon, Iowa, on March 29th. For the past fifteen years Mr. Maharg and his father have been breeding Short-horns at this point and have built up a good herd, most of which are Scotch cattle. The elder Maharg retired a couple of years ago and Earl Maharg, his son, assumed the active management. He has decided to make a public sale, and he will sell forty-eight head of cattle in his forthcoming sale, and thirty-one head of these are Scotch cattle. Included will be nineteen head of Cruickshank Victorias, possibly more than has been offered in any one sale in recent years. There will be a number of Cruickshank Lovelys and Orange Blossoms and quite a number of the Devergoil tribe, including Imp, Devergoil with a good bull calf at foot by the show bull, Burnbrae King. About fifteen females will have calves at foot and many will be due to calve about sale time to the \$1,000 Sultan 3d, a son of the famous show and breeding bull, Whitehall Sultan. There will be eight head of bulls in the sale, five or six of which will be Scotch, of the Nonpareil, Secret, Victoria and Duchess of Gloster tribes. There are eleven nice yearling and twelve two-year-old heifers in this sale, together with a good lot of well-bred, big, roomy Scotch and Scotch-topped cows in the sale. Messrs. Maharg have always used the best of Scotch bulls at the head of the herd. The last three bulls were Crimson Chief, a son of Imp, Prince Cruickshank; Burnbrae King, a son of Imp, Orange Chief, and a well-known show bull in his earlier years, and now the splendid bull, Sultan 3d. Breeders will find a splendid lot of Cruickshank Victorias in this sale and some well-bred Scotch bulls, of which we will refer to in next week's field notes. In the meantime kindly write to Mr. Earl Maharg,



AN IMPORTED PERCHERON STALLION OWNED BY WATSON, WOODS BROS. & KELLY CO., OF LINCOLN, NEB. SEE ADVERTISEMENT ON PAGE 55.

GOOD HEREFORD CATTLE



IMP. MARCH ON

BROOKMONT FARM, A. E. COOK, ODEBOLT, IOWA.

THE indications for the future of the western farm are that keeping more and better cattle must serve the double purpose of keeping its fertility up to the highest producing point and bringing its profits up to a commercial basis. Beef-making cattle will do it with the minimum expenditure of labor. Hereford cattle are prime beef makers. As pure-breds or grades they are favored in the world's beef markets. Brookmont Farm has good bulls for those who want to grade up, and good cows and heifers for those who want to start pure-bred herds. Nearly 1,000 to select from. Write for prices or come to

Audubon, Iowa, for copy of catalog and kindly mention The Homestead.

A Noted Auctioneer.

It is only justice to the man that we call your attention to the noted auctioneer, Col. H. L. Igleheart, of Glendale, Ky. A few years ago Colonel Igleheart made a few sales in Ohio and the breeders saw at once that he was made of the right sort of material and had a great deal of ability. Since that time his business has grown until, at the present time, he has no trouble to fill his desirable dates with the best breeders in the land. His business has grown solely because of his superior merits as an auctioneer. He is a well-educated man, an untiring worker, an orator and above all a gentleman. His ability to make an opening address at a sale is equaled by few and surpassed by none. He opened every successful Duroc sale in Indiana, Ohio and Kentucky during the past winter and their success, in no small measure, was due to his untiring efforts. He does not believe in jests nor fun during a sale, but constantly appeals to the better judgment of the ringside to make the animals sell for their worth. During the past year he has made sales in nine different states. His many pleased customers are his best advertisement. His announcement appears on page 48 and we would advise any of our readers thinking of holding a sale to get into communication with him at once. Please mention The Homestead when writing.

Last Call for Short-horn Sale at Sioux City.

A group of Wisconsin Short-horn breeders will hold a combination or consignment sale in Sioux City, Iowa, on March 24th. In invading Iowa, one of the very strongholds of the red, white and roans, these men fully recognize and realize that they will be met by critical buyers who know and, in many cases, own choice representatives of the breed. They also own A1 Short-horn herds and in making their selections for their first sale in Iowa they have picked only animals which would establish their reputations and win further and later recognition. Wisconsin, of course, does not have as many herds of Short-horns as does Iowa, but the quality of the few herds is now well established. One of the Sioux City sale consignors will be the firm of Messrs. Fox & Gallagher, of Oregon. This company have been favorably known for their breeding operations for a number of years. Show herds owned by these men have made their appearance in recent seasons at some of the leading fairs of the middle West. The results have been highly gratifying and promise well for the future. Messrs. Fox & Gallagher are consigning the cow, Oakland Maid 31st. She was by Duke Marigold, a bull which won distinction in the Kiser herd (also in Oregon, Wis.). The Oakland Maid family has been a mainstay with Messrs. Fox & Gallagher and Oakland Maid 31st is quite typical of the strain. She will be in calf to Gloucester Knight, a son of Mr. C. E. Clarke's bull, March Knight. Another Oregon breeder, Mr. R. C. Jones, will be on hand with a number of entries. Among them will be several show prospects. A few years ago Mr. Jones purchased White Rock, a son of Whitehall Sultan, and a

bull which has invariably stamped his progeny with general Short-horn excellence. With White Rock he has been using Young Demonstrator, a bull known for his connection with the Chamberlain-Rosa herd at Beloit, Wis., and for what he has done in the show ring. Men who attended the International two years ago will remember that the Jones herd then gave its initial performance and it was worthy of veterans. Oakhall entries always won general approval, even applause, and the judges presented their owner with quite a number of hard-fought-for ribbons. Two cows, Lady Helen Marr and Oakhall Rose, which will be sold at Sioux City on March 24th, perhaps deserve particular mention. Both are show-ring candidates of the first order. Lady Helen, a beautiful roan, has already appeared in state fair and International rings and has always made a creditable showing. She was sired by Imp. Englewood, an American Royal prize winner, and purchased by Messrs. Forest & Dunham, of Iowa, at a Kansas City sale for the tidy sum of \$1,850. Oakhall Rose is a Young Mary cow and a daughter of Young Demonstrator. In addition to these two females there will be a number of heifers, several of which will be bred to White Rock. These are a fine lot and will certainly please whoever sees them. Mr. Frank Burt, of Brodhead, Wis., has entered a tidy bunch of young heifers. These are all out of Gloucester Echo and characteristic of the get of this bull they are a most uniform and typey lot. One of the number is a daughter of Grace and a granddaughter of Grace Darling, two of the very best cows ever owned on Burt Farm. Another heifer, Queen Esther by name, is also a prime one. She is out of Queen 2d out of Queen of the West by Scottish Prince, a sire shown by Mr. Potts in Chicago in 1892. Five young bulls and four heifers will be contributed to the sale by Mr. W. T. Green, of Orfordville, Wis. In this consignment there will be Avon's Belle out of Lady Avon, bred by Mr. Aaron Barber, of Avon, N. Y., and bought from Mr. J. M. Chamberlain, owner of the Hichurst herd at Beloit, Wis. This cow was unquestionably one of the best animals owned by Mr. Chamberlain and the daughter is as likely looking as was the mother. Another Lady Avon heifer in the sale will be Avon's Pearl by Onward and bred to Golden Emperor. Golden Emperor was by Gay Emperor, an International winner in 1897. The dam of the farmer, Maid of Gold Dust, was a show animal from the ground up and topped the tri-county sale at Freeport, Ill. Countess Harroun by Whitehall Count, and therefore a granddaughter of Whitehall Sultan, will also be in the sale. The 1909 show herd of Mr. Johnson, of Columbus, Ohio, contained several animals by her sire. On the dam's side she comes from Matabelle Chief, a bull well known to all Wisconsin breeders. Among the bulls to be contributed by this breeder will be Golden Emperor, already mentioned, and Harroun's Choice by Onward and out of Barrington of Hichurst 15th by Sharon Chief of Greytown. The first five sires in this bull's pedigree have been state fair prize winners and a full brother of the ten-months-old bull which topped the Green-Burt sale at Parker, N. D., a year ago. We have briefly de-

scribed a few of the animals to be sold in the coming sale. Write Mr. Frank Burt, of Brodhead, Wis., for a catalog and plan to be at the sale. See page 50.

The Percheron Importing Company—Percherons, Shires and Belgians.

The Percheron Importing Company, of South St. Joseph, Mo., and Chariton, Iowa, received an importation of Percherons on December 30th that should be inspected by stallion buyers. Manager Chas. R. Kirk never imports a horse that he does not think of sufficient merit to improve the stock in America. He loves the good ones, takes pleasure in showing them to prospective customers and makes prices as low as they can be made in justice to the cost and expense of importing and handling. See page 55 for the advertisement of the firm and when writing them or visiting their barns kindly remember to mention this paper as the publication in which you saw their advertisement.

An 800-Acre Kansas Stock Farm at a Bargain Price.

Mr. R. M. Dobson, of Independence, Kan., is offering an 800-acre stock and grain farm located two miles from two railroad towns and two miles from Independence—Coffeyville, trolley line. Four hundred and eighty acres is rich creek bottom land that produces the finest of corn and alfalfa. Three hundred acres are fenced hog tight and divided into forty and sixty-acre pastures. Every improvement is first class, on the home place a large stock barn, numerous sheds and outbuildings, including housed stock scales, water tower housed and every convenience for caring for live stock is complete. The improvements on the second farm are as good as are usually found on the better farms. Fruit trees and twenty acres of timber furnish plenty of shade and timber enough to last a lifetime. Mr. Dobson has run cattle on this farm for years; he maintains a herd of 200 head of pure-bred Herefords and the land has been made better each year, as the rotation of crops and abundance of fertilizer has been used to best advantage. Mr. Dobson offers this farm of 800 acres either as a whole or divided in two farms. He also will sell with or without the cattle. If the buyer wants the cattle Mr. Dobson will make a decided bargain price on them. For further information write Mr. Dobson, Independence, Kan., and kindly mention The Homestead.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago Union Stock Yards, March 14.—The markets for cattle, hogs and sheep were of a high and bounding kind last week. Top beefs reached \$8.40, highest ever paid in March during modern packing times and as high as recorded since December. Hogs sold up to \$10.90, the highest figure ever recorded in modern packing times and the highest for any time since 1865. Lambs went at \$9.65, a new high price during modern packing times and the highest since June, 1909, when the record figure of \$9.90 was made. Western

TOO LATE TO CLASSIFY.

BERKSHIRES

We are now ready to book orders for Pigs from Spring farrowings, to be shipped when wanted. We also have a few very fine pigs from last Fall litters still unsold. Be sure and write before buying.

MORGAN FARM·BELOIT·WIS

REGISTERED BULLS WANTED

We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd headers. Write us immediately. Address Bragonier & Son, South Omaha, Neb.

Violetta Victoria 181966

Dropped a bull calf on December 27, 1909. If you want a grandson of Golden Fern's Lad that will be a bull worth having, take this one. He is sure some bull! \$50.

Sunny Peak Farm, Elm Grove, Wis.

GUERNSEY CATTLE

BULLS, cows and heifers for sale. The same blood that won more than forty prizes at two world's fairs. Our cows test better than five per cent, and are from families that do as well. Why be satisfied with cows that test three or less? Two hundred head in herd. Write for prices or come and see them. (Mutual Phones 766B and 999.)

Wilcox & Stubbs Co., Des Moines, Iowa.

SHELTAND PONIES FOR SALE

A 3-year old matched team, a 5-year-old and a yearling, all mares, and the three older ones safe in foal by an imported Iowa state fair winning stallion. Write for prices.

SHERMAN EDWARDS, Bondurant, Iowa

For Sale Jacks and jennets at Falls City, Neb., Thursday, March 24, 1910. Heavy boned, Mammoth-bred kind. Also a trotting-bred registered stallion, Davy Logan 40898, wt. 1,300, by Allerton 2094. Catalog, J. F. Scarlett, Falls City, Neb.

Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. Wm. Barrans, Lenox, Iowa.

wethers brought \$8.15, a price never before realized, and native ewes \$8.00 also a record figure. All of the above prices were obtained by Clay, Robinson & Co., with the exception of the \$8.15 sheep.

The prospects for the cattle trade are very good. It is a patent fact that good to choice beefs are in very limited numbers throughout the corn belt and that there will not be a surplus of even those in plain to medium flesh. At the same time the demand on both local dressed beef and eastern shipping account should continue to be urgent, providing there is no reversal in industrial affairs, and prices should go high before there is permanent lowering of the same. It is problematical as to whether hog prices will go any higher. It is generally conceded that the supply in the country is anywhere from 25 to 35 per cent under one year ago. It is more a question as to how much higher consumers are willing to pay for pork products. At this time packers are being kept busy supplying an insistent demand for fresh hog meats and eastern shipping demand is of the urgent kind. Unless all signs fail the top prices for both sheep and lambs have not been seen thus far this season. The great bulk of the fat stock is now back in the northern Colorado feed lots and reports from there are to the effect that owners are bullish as to the future market and also have plenty of feed. Thus there is no probability of congested receipts from that quarter and there are not enough offerings back in



The above is a picture of five great Holstein-Friesian cows in the noted herd of Mr. Robt. E. Haeger, of Algonquin, Ill. Four of these are members of his 1909 prize-winning show herd. In Paul Beets De Kol and Hengerveld De Kol Mr. Haeger has two of the best bulls of the breed. Write him for what you want. On June 21st, 22d and 23d he will sell 300 head of cows and bulls at auction. See his advertisement on page 49.

Scotch SHORT-HORNS

AT PUBLIC AUCTION

AUDUBON, IOWA, TUESDAY, MARCH 29, '10

48 HEAD-40 FEMALES, 8 BULLS-48

15 HEAD WITH CALVES AT FOOT---31 HEAD OF SCOTCH CATTLE

INCLUDED will be 19 head of Cruickshank Victorias, 2 Orange Blossoms, 2 Lovelys and several Devergoils, including Imp. Devergoil, with a good bull calf at foot. Other leading families will be represented. There will be 6 head of Scotch bulls in the sale of the Nonpareil, Duchess of Gloster, Secret and Victoria tribes. If you are looking for some good Scotch cattle write for my catalog and come to my sale. Many of the cows have calves at foot by my \$1,000 bull, SULTAN 3d 278292, a son of Whitehall Sultan, and all females are bred to him. Col. Geo. P. Bellows, Auct. Write for catalog, mentioning The Homestead.

EARL MAHARG, AUDUBON, IOWA.

the feed lots of other grades to cut any material figure in the markets until the arrival of grassers.

GOOD TRADE IN CATTLE.

Last week closed with prices strong to a little higher for beef steers than like period of the preceding week. Strong undertone to the market on the late days was weak. Shippers were strong supporters of the trade most of the week and local dressed beef men were in need of a liberal supply. Top of the week was \$8.40, obtained by Clay, Robinson & Co. and bulk of sales were at \$6.25 to \$7.75. Most of the butcher grades of cows and heifers went at \$4.50 to \$5.85, with canners and cutters largely at \$3.25 to \$3.75. Bulls largely at \$4.75 to \$5.75. Fancy vealers landed at \$10.00 and choice heavy calves at \$6.00. Feeders sold in main at \$5.25 to \$5.90 and most stockers at \$4.75 to \$5.25.

HOG PRICES CLIMB RAPIDLY.

The advance in the hog market last week was anywhere from 25 to 75 cents from the close of the previous week. Good to choice offerings went largely at 50 to 65 cents gain. Both packers and eastern shippers competed strongly for the offerings which along with the relatively moderate supplies, enabled sellers to have remarkably firm control of the situation. March 10th was high day of the week. On this day Clay, Robinson & Co. obtained \$10.90 and the bulk of selling was at \$10.50 to \$10.85, according to time of day sales were made.

SHEEP HIGH SALE.

The advance in prices for sheep and lambs last week was 20 to 30 cents over the close of the previous week. An excellent demand prevailed all week for both woolled and shorn offerings. Top lambs made \$9.65, obtained by Clay, Robinson & Co., and bulk of sales were at \$8.60 to \$9.35. Summit on sheep was \$8.15 and sales in main at \$7.00 to \$7.75.

WHY WE SHOULD PLANT PURE-BRED CORN.

To the Editor of The Homestead:

The very best reason why the up-to-date farmer should plant none but pure-bred seed corn is that he cannot afford to plant any other kind. Land is getting too high priced for the average farmer to farm profitably with either scrub seed or scrub stock. The best is none too good, and the down-to-date farmer should be satisfied with nothing else. A few dollars spent for pure-bred seed corn is the best investment a farmer can make,

when the result is measured in dollars and cents. Besides, it is more satisfactory in every way. It increases the yield and quality of the corn. The ears will be more uniform, better shaped, of more even color, and there will be more bushels to the acre. It will sell for a better price, will pay off the mortgage quicker, give more pleasure in the home, enable you to enter the corn shows and win good prizes, and that will more than pay for the seed. If possible, get your seed from a so-called corn crank, the man who attends the corn shows, who isn't afraid to put his corn on exhibition beside that of the best corn growers in the state, who farms because he likes to, stays right with his crop and is always on the job. You may be sure he does everything in his power to produce the very best corn he can; such a man loves nature and will give you a square deal every time. It costs no more to cultivate good seed than it does poor seed. The only difference is in the harvesting of more bushels of corn, and that is a pleasure when you have a heavy crop.

Now a few words about the price. Do not buy cheap seed. Do not consider the price at all, but consider the quality you get. If you buy cheap seed you get cheap seed, and no matter how cheap it is it will always be a bad bargain. But when you send an order to a corn breeder, do not expect to get all perfect or show ears. He raises them, no doubt, but cannot afford to send them out for a paltry \$3 or \$4 per bushel. They are really rare, and the man who produces them generally knows enough to get more than common corn prices for them. But he will send you corn that has breeding back of it, that will produce a splendid type of corn and a lot of excellent show ears. You cannot lose by dealing with a genuine corn breeder, as most, if not all of them, will ship their corn on approval and guarantee satisfaction in every way. So you run no risk at all. The man who can win prizes at the large corn shows has good corn or he could not

win them. The judges do not look at the man; they look at the corn, and the best corn wins. Why? Because it is the best. I have attended quite a number of corn shows and have won and lost, but I think I have always had a square deal. And when I lost the other fellow had the best corn. There are plenty of good show ears fed to the hogs because they are not recognized, while a lot of good hog corn is sent to the corn shows for the very same reason. Therefore, I say, study corn; attend your farmers' institutes and corn shows, get in touch with your college of agriculture, attend the farmers' conventions. You will be surprised what a lot you can learn at these meetings. The same reasons that make it necessary to carefully select animals in breeding live stock also make it necessary to select the ears of corn carefully if one wishes to secure better corn. A good ear of corn will produce other ears like it if conditions are favorable. If we should all take as much care in selecting our seed corn as the live-stock breeder does in selecting animals, the yield of corn would be greatly increased. Some farmers seem to think that the corn score card is simply a lot of fancy points and of no great utility, but in this they are badly mistaken. Maturity, shape of ear, uniformity of kernels, butts, tips, percentage of corn to ear, each and every different standard makes far better corn and more of it.

But, my dear reader, the seed is not the whole thing. The very best of seed will not produce a good crop if planted in poor soil and given indifferent cultivation. You must have strong soil, made so by crop rotation—clover, manure, good cultivation—if you expect to get a heavy yield of corn.

F. M. Riebel.

Scotland county, Mo.

Using Cement on the Farm.

Developments in the use of cement during the past few years indicate that on the farm it may be put to a multitude of profitable uses. Perhaps most farmers recognize this, although a few may feel that the processes involved in

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using cement might require expert labor. This is not the case. The United Kansas Portland Cement Company have issued a bulletin which gives explicit instructions for the manufacture of cement stock tanks, feeding floors, dipping tanks, etc. The descriptions indicate that the manufacture is a simple matter and that only the quality of the cement and a little intelligent care are needed. The bulletin will be sent free to any reader of this paper who sends a postal card request to the United Kansas Portland Cement Company, 327 Commerce Building, Kansas City, Mo. See page 38 for advertisement.

Ask your neighbor to subscribe for The Homestead.

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GUERNSEYS
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They are as good as could be bought on the Island.
Yearlings and two-year-olds, at from \$200 up.

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GUERNSEYS

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GUERNSEYS

I have a few young bulls for sale at this
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RALPH TRATT, WHITEWATER, WIS.

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Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daugh-
ters of King Coral A. R. 16 and Capt. Robbio A. R.
25. They are sired by Glenwood's Stranford
9386, a son of Stranford's Princess A. R. 199, with
725 lbs. fat. He is a half brother to Dalrymple of
Pinehurst, the leading cow in Iowa Dairy Cow Con-
test. Send for sale list of bulls. No females for sale.
Ben Clark & Son, R. 1, Whitewater, Wis.

WANTED Guernsey cow and heifer. I am in
the piano business and will exchange
a first-class new piano, worth \$350, for a first-class
registered Guernsey cow or heifer. Must be a good
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COWS, heifers and young bulls. Herd bull, But-
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bull calves, cows and heifers; quality
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HEADED by the show bulls, Dictator 3d and Ned
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you. A. G. Abney, North Loup, Valley Co., Neb.

GALLOWAYS

HEIFERS, cows and bulls. Anything you want
H and at popular prices. Oldest herd of Gal-
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John C. Gahring, R. 1, Box 29, Marengo, Ia.

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I have a few choice young bulls for sale that are fit to head good herds.
Also a few choice cows and heifers for sale.

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20 From A. R. O. dams and rest from dams that
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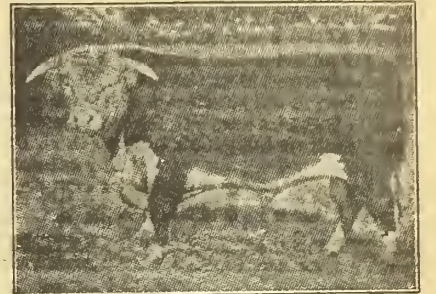
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Considering age, size, color, type, breeding and the
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Just try us once.

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THE largest herd in the world. My bulls carry as
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YOUNG stock for sale. Bulls heading our herd
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Aberdeen Angus Bulls for Sale

I HAVE a splendid 2-year-old Trojan Erica, a
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Queen Mothers and several younger bulls at bed
rock prices. John H. Fitch, Lake City, Iowa.

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THREE bulls for sale; also three bull calves,
dropped last August and Sept. They are sired
by ton bulls and out of one of the best cow herds
in the state. My cattle have size, breeding, quality.
Call on or address A. G. Messer, Grundy Center, Ia.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale,
sired by Maplehurst Hero 3d and my double-
bred Trojan Erica bull, Erica's Equester; also a
few choice cows and heifers. Prices reasonable.

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Ericas, Blackbirds, Prides, Queen Mothers
for sale. Harrison & Harrison, Indianola, Neb.

HEREFORD CATTLE SALE

TO BE HELD AT MY FARM NEAR
SLATER, IA., TUESDAY, MARCH 29, 1910

HAVING become overstocked with cattle, I am compelled to take this means of reducing the numbers of my herd to the accommodations of the farm. I have, therefore, cataloged the entire crop of bulls on the farm, together with a splendid selection of females. I believe the offering is one which buyers will appreciate on sight. They carry the very best strains of blood of the breed and are otherwise right. A large proportion of them are the get of Brigadier 10th; he a grandson of Lamplighter and one of the most intensely-bred Don Carlos bulls in existence. The sale will be held on the farm four miles southeast of Slater and one mile west of Thompson station, on the Des Moines, Ft. Dodge interurban. Col. H. S. Duncan, auctioneer. Send mail or telegraph bids to C. C. Carlin, of The Homestead, in my care. For catalogs, address

E. O. NERVIG, SLATER, IA.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

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INVERNESS ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, IOWA CITY, IOWA

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thickset Blackbird. 10 young bulls by Glenfold Thickset, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thickset, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Herdsman.

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Sired by Scottish Hero 52494 and Glen's Prileno 91606. In ages from 10 to 20 months, in good, useful condition for the buyer. If you want bargain prices on bulls write me.

JOHN E. GRIFFITH, WASHINGTON, IOWA.

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by Imported Ideal of Stranden 28158 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. 1. & P. R. Wilkinson & Sons, Mitchellville, Ia.

SHORT-HORN CATTLE.

SHORT-HORNS and PERCHERONS

We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices.

SMITH & BARNHART, South English, Iowa.

Springdale Stock Farm

Scotch and Scotch-topped Short-horn and big-type Poland Chinas. Write your wants. W. J. HATHER, ORD, NEBRASKA.

SUMMIT HERD OF SHORT-HORNS

20 Short-horn bulls for sale, of serviceable age; all good colors and choice breeding, and well grown. Prices right. Lee & Prentiss, Vermilion, S. D.

Six Short-horn Bulls for Sale

WE are offering six head of good young Short-horn bulls for sale, five reds and one roan. Good ones and at reasonable prices. Write us at once. H. Pritchard & Son, Walnut, Iowa.

Plain View Stock Farm

GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address GEO. A. HANS, NEWTON, IOWA.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Wm. M. Smith & Sons, West Branch, Iowa.

S. H. THOMPSON'S SONS IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.



The "STAY THERE"
Aluminum Ear Markers are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address WILCOX & HARVEY MFG. CO., Dept. A, 325 Dearborn St., Chicago, Ill.

WHITE BROS. CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

SCOTCH BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.

Good Scotch Bulls for Sale

I AM offering a splendid lot of young Scotch bulls for sale, sired by American Goods, a son of Imp. Choice Goods and Baron Kear 3d. Strictly all right and prices reasonable. W. H. McLAUGHLIN, SHELBY, IOWA

SHORT-HORN BULLS FOR SALE

AN extra 14-months' Scotch (Secret) calf by Lavender Fitz, out of a heavy milker. A husky, 21-months' red fellow by the same sire.

J. R. Ballard, Route 2, Ames, Iowa.

Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all reds; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live-and-let-live prices. R. M. Young, Cook, Johnson Co., Nebraska.

SCOTCH BULLS I have for sale several richly bred and splendid individual bulls, reds and roans. The herd is headed by the Scotch bulls, Ringmaster and Choice Prince. Nine straight Scotch bulls, two Scotch topped, now ready for service. Farm adjoins town. Address G. H. GEORGE - MONTICELLO, IOWA

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns. HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address

GEO. H. WHITE, EMERSON, IOWA.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

COMBINATION SALE SHORT-HORNS

SIoux CITY, IOWA,
THURSDAY, MARCH 24, 1910
50 Scotch and Scotch-Topped 50

There are to be eighteen bulls and thirty-two females, and not an old animal in the lot; all young and useful. These cattle will all have health certificates. The bulls and many of the heifers are by the following well-known sires:

WHITE ROCK—One of the great sons of the noted Whitehall Sultan. He was one of the most likely calves ever owned at Anoka. Since being transferred to the herd of R. C. Green at Oregon, Wis., he has sired several crops of calves which could hardly be beaten for uniformity and general excellence.

GLOUCESTER KNIGHT—A son of March Knight, one of the very best bulls ever owned by Mr. Clarke, the well-known Minnesota breeder. Gloucester Knight has won many well-deserved laurels in the show ring, and has proven a remarkable sire, having sired Prince Knight, one of the sensations of the 1909 circuit.

YOUNG DEMONSTRATOR by Demonstrator by Young Fellow, a bull well known throughout the middle West. He has appeared to advantage in many show rings, and in addition has sired many an animal qualified to do well in any position.

ONWARD, the head of the Harroun herd. Too much could scarcely be said of this bull as the producer of excellent stock. His get must be seen to be appreciated.

GLOUCESTER ECHO, a young Gloucester bull out of the Cleghorn herd at Lake Forest, Minnesota, and a good one in every way.

For a more detailed description of the offering, write for catalog to
FRANK H. BURT, BRODHEAD, WISCONSIN

SHORT-HORN CATTLE.

Choice Short-horns at Bargain Prices

CHOICEST red cows and heifers by the grand Scotch Princess Royal bull, Royal Fame 197950, and bred to my Cruekshank Flora bull, Narcissus King 239586. One extra good bull 16 months old by Royal Fame; 14 younger bulls, mostly by Narcissus King. A choice lot to select from at bargain prices; singly or car load. Address

R. J. COX, GRINNELL, IOWA.

35 SCOTCH SHORT-HORN BULLS

FOR SALE—From one to two years old, of the bloekey, beefy type; herd headers also. 25 heifers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address

I. BARR & SON, DAVENPORT, IOWA.

Three Pure Scotch Bulls FOR SALE

FOURTEEN to 18 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruekshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight.

T. A. DAVENPORT, BELMONT, IOWA.

Wildwood Scotch and Scotch-Topped SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 T. Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls. Headlight and Brawith Lad. For description and prices, address

W. W. VAUGHN - MARION, IOWA.

BATES BULLS

SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. B. HEALY, BEDFORD, IOWA.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

BERKSHIRE SWINE. PRINE FARM BERKSHIRES

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address

George S. Prine, Oskaloosa, Iowa.

YORKSHIRE SWINE.



Large Yorkshires Champion Herd of U. S.

Special offering now 128 gilts, 9 to 12 months, guaranteed safe, due last of March to June, now ready for shipment; weight 200 to 375 lbs., prices f. o. b. \$40 to \$75 each, depending on size, quality, age and date of breeding. Also 20 sows of fall litters at \$25 each. Order early, as demand was never so strong.

Thos. H. Canfield, Box 7, Lake Park, Minn.

HAMPSHIRE SWINE.




I won champion on pen of Hampshire barrows; also champion on single barrow at the '09 International Stock Show. Thirty sows bred for March, April and May farrow, for sale. I am also breeder of Short-horn and Double Standard Polled Durham cattle, Bourbon Red turkeys, Pekin ducks and Barred Plymouth Rock chickens. Write me.

JOHN GOODWINE, POTOMAC, ILL.

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE



My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.


A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires



We bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**

WAYSIDE HAMPSHIRE



We bred the load of barrows that won first in class over all breeds at 1906 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.

MIKE SHARP - - - - COAL VALLEY, ILL.

STONE STOCK FARM HAMPSHIRE



My herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper.

E. C. STONE, - - - - ARMSTRONG, ILL.

25 Head of Spring Boars
5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable.

H. D. DeKALB - - - - DeKALB, IOWA.

HAMPSHIRE Swine

We have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

CHESTER WHITE SWINE.

CHOICE FALL BOARS FOR SALE



THEY are of the same prize-winning blood as those with which I won 141 prizes at five big state fairs of 1909. Low prices to quick buyers, as I must make room for the spring crop. **D. H. LEWIS, GENESEO, ILL.**

25 FALL PIGS FOR SALE

25 Fall pigs sired by Lewis E. 13707, the greatest hog of the breed and sire of more prize-winners in 1909 than any living Chester White boar, and out of such sows as Aleo Belle and Delta Girl. These pigs will be priced worth the money.

E. L. NAGLE & SON, Deep River, Iowa.

Mear's Chester Whites

4 fall boars and a great string of pigs by **NEPONSET ED. 16711**

Are ready to ship any day. All sold out of bred sows of any age. Write or come.

E. L. MEAR, LAMAR, MO.

CROSIER'S O. I. C. BARGAINS

CHOICE bred sows and gilts bred to White Wonder for March, April and May farrow. Also four males. Priced at the bottom. Write now to **C. W. CROSIER, JUNIATA, NEBRASKA.**

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address **S. J. Philson, Harlan, Iowa.**

O. I. C. WHITES.

Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. **Fred Ruebush, Chicago, Ill.**

CHESTER Whites.

Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. **E. J. Trumbauer, St. Charles, Iowa**

Mehring Choice O. I. C., strong-boned, smooth, well-quartered July boars for sale. Some fine Shropshire ewes. **H. C. Mehring, Manson, Ia.**

When writing mention this paper.

POLAND CHINA SWINE.

50 LARGE-TYPE, BIG-BONED POLAND CHINA SOWS

THESE sows are sired by Hadley, P. W. Giant and Jumbo. They are bred to Hadley and Victor (he by Big Victor, second prize aged boar at Nebraska State Fair, 1909). Choice tried sows, 350 to 400 pounds, \$50 to \$75. Fall yearlings, 300 to 400 pounds, bred to farrow March and April, \$45 to \$75. Spring gilts, bred to Victor for April and May farrow, 200 to 260 pounds, \$32 to \$50. They are heavy-boned, smooth, well-grown sows, sired by \$100 and \$150 boars, bred to the same kind, and as good as are grown. Sold 85 boars and sows this fall at an average of \$40. Shipped to eight states. Sold 1,000 for breeders in seven years. Careful selections made for mail orders. Pedigrees furnished at time of sale.

F. W. McINTYRE - R. F. D. 5 - RED OAK, IOWA.

WELLMAN HERD OF POLAND CHINA HOGS AND SHORT-HORN CATTLE.



25 BRED gilts; 25 May, June and July boars; 30 gilts same age; 50 August and September pigs, both sexes. Sired by two great herd boars. Can furnish pairs not akin. Herd headers a specialty. 10 head of choice young bulls, 8 to 15 months old; all deep reds; sired by Masterlode 265763, a pure Scotch Victoria bull. Also a choice lot of young heifers. Have shipped stock into 35 states, Canada and Old Mexico. Write for pictures of herd bull and herd boars, free on application. Address **C. F. SHAFER, R. R. 4, WELLMAN, IOWA.**

PODENDORF'S BIG-TYPE Poland China Bred Sows

I AM offering a splendid lot of strictly big-type, with quality combined, Poland China bred sows and gilts for sale at private treaty, bred for February, March and April farrow. Am pricing these right.

A. J. PODENDORF, LOGAN, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. **HELD BROS., HINTON, IOWA.**

Poland China Bred Sows

I have a few choice bred sows and gilts for sale at private treaty. Address **D. C. LONERGAN, Florence, Nebraska.**

DUROC JERSEY SWINE.

DUROC Jersey bred sows for sale—by or bred to a son of Ohio Chief. Low prices to quick buyers. **G. W. SPEIRS, HEDRICK, IOWA.**

DUROC JERSEY SWINE.

DUROC JERSEY BRED SOWS

EIGHT March gilts sired by J. E.'s Chief, bred to Investor and Ridge Wonder by Prince Wonder for March and April farrow; weight 250 to 300 pounds. Price, \$40 to \$50 to quick buyers. I will also sell J. E.'s Chief. Write for description at once; mention paper.

J. E. REES, GRAND RIDGE, ILLINOIS.

WE HAVE HAD A VERY GOOD BOAR TRADE

AND still have a few good Col. males left, and they have plenty of quality. One sired by King Solomon II., one sired by Tientsin 2d, the State Fair winner; one spring and one fall yearling sired by old Tientsin 17261. I could spare Tokio 79013, one of the best sons of Tientsin, a line bred Tolstoy boar, and has proven himself a splendid breeder, but owing to having so much stuff related to him, will spare him at a reasonable price; in fact, all the boar stuff we have will go at a very moderate price. We have quite a number of August and September Col. pigs. We will sell cheap, so come on and let us fit you out with a Col. boar; prices right. **A. L. MOSSMAN & SON, RADCLIFFE, IOWA.**

10 GOOD DUROC SOWS BRED TO ALSO 2 CHOICE BOARS BY KING OF COLS. II

ALL are of our choice breeding. Sows bred to G. C.'s Kan. Col. by G. C.'s Col. and Col. C. by Kan. Col. II. and out of Red Princess. Write or come and see them. **Chapin & Nordstrum, Green, Kan.**

BRIGHTON FARM DUROCS

A LIMITED number of aged sows, fall and spring gilts for sale. Descendants of Tolstoy, Pericles, Achiever. Bred for March and April farrow to Walter Model by Golden Model 2d and Gen. Moon, a grandson of Crimson Wonder I Ain. For prices and further description, write to **HOFFMAN & CHAPMAN - - - - WASHITA, IOWA.**

40 HEAD DUROC JERSEY BROOD SOWS FOR SALE

S IRED by Crimson Critic, I Am Advance, Beile's Chief I Am and other noted boars. Bred to S Harding's King of Cols. and many other noted herd boars. 12 fall boar pigs for sale that are show prospects. Write me about these at once. Address **R. J. HARDING, MACEDONIA, IOWA.**

Crimson Wonder Again FALL GILTS FOR SALE

We have a few very choice September gilts for sale at prices that will please. Also booking orders for sows bred to Crimson Wonder Again for fall farrow.

H. S. ALLEN, RUSSELL, IOWA.

DUROCS

WELL! We are not offering any just now, but watch for us. We have some of the best sows in the country, bred to boars of the same kind. We have a few extra good Red Polled bulls of serviceable age, and will price them right.

"The Always Better Kind."

C. W. Huff, Mondamin, Ia.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address **C. C. Cushman, Mgr., Chillicothe, Ohio.**

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

HIGH-CLASS DUROC JERSEY BRED SOWS FOR SALE

Daughters and granddaughters of Ohio Chief and Kant Be Beat bred for early farrow to my Colonel boar. These are good. Will not hold a sale and am selling them privately. Address **J. D. McDERMOTT, WIOTA, IOWA.**

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY. Write Your Wants.

B. & C.'S COL. Grand champion, Illinois and Iowa, 1909. Crimson Wonder, Ill., grand champion, Nebraska, 1908, and McNells' Model, champion under year, Ohio, Indiana and Illinois, 1907. Sows all sold. A few good boar pigs (Ed. A. Baxter, Pawnee, Illinois. Address **R. L. Comer, Carlinville, Illinois.**

ORNAMENTAL Herd of Duroc gilts, bred to farrow in March and April; \$25 to \$40. For particulars, write **S. S. Krebill, Donnellson, Iowa.**

\$22 EACH

WE are sold out of large gilts and old sows, but have some choice younger gilts, combining the blood of Orion, Crimson Wonder, Tip Top Notcher, etc. They will weigh from 140 to 160 lbs., bred for April and May farrow. Will crate and deliver to express company as long as they last at above price. They are bargains. Get your order in before too late. Same price, \$22 apiece for one or a dozen.

WOODLAWN FARM, STERLING, ILL.

DUROCS

A LIMITED number of choice gilts, granddaughters of old Kant Be Beat for sale, bred to Model Chief Gold, a full brother to Model Chief 2d; bred to farrow in March and April; will be priced worth the money. Write **J. W. TROY & BROS., ROSE HILL, MAHASKA COUNTY, IOWA.**

Helen's Chief High Notcher

Glad Col. and King's Col. head my herd of Durocs. I will sell King's Col. by King of Cols. Write for price.

M. A. KRASCHEL, MACON, ILLINOIS.

Duroc Jersey

Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

ARTHUR L. PARKS, LELAND, ILL.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. MORTON & Co., Camden, Ohio.

20 Duroc Gilts Bred 20 AT PRIVATE TREATY

Sired by King of Cols. 2d and G. C.'s Col. Bred to Elder's Wonder and F. E.'s Col. Also choice summer boars by same sires.

FRANK ELDER, GREEN, KAN.

Bred SOWS

WE have thirty head of well-bred Duroc Jersey sows, to farrow in March, April and May for sale, at \$35 to \$50. **White Bros., Perry, Iowa.**

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banker 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows. **VON SEGGERN BROS., WISNER, NEB.**

25 DUROC JERSEY BRED SOWS FOR SALE

S IRED by King Solomon II., Advancer's Choice; S others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once. Address **A. Lentz & Son, Pierson, Iowa.**

HORSES AND JACKS.

JOHN MORAN

NEVADA, IOWA.

IMPORTER AND BREEDER OF

PERCHERON

Stallions and Mares

At the present time I am offering twelve head of grand imported mares and three imported stallions at prices that will look attractive to buyers. If you are intending to buy come and see these stallions and mares. The mares are from yearlings up to four years of age, both blacks and grays, and matched pairs can be selected. For good goods at the right kind of prices I can satisfy your wants. Come and see me.

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.

PERCHERON STALLION FOR SALE

COAL black, 10-inch, clean, flat bone; weight, 1,250 lbs.; thin; 2 years old May 28, 1910. Closely related to three of the best Percheron sires the world ever knew, viz.: Brilliant, Coco, Gene Le Blanc. Price, \$450. Buy this colt, break him to harness, use him for light work, develop his bone and muscle, breed a few mares this season, grow him into a useful horse, make a daily "bread earner" of him. Useful and successful stallions are made, not bought, by paying a long price for a bunch of fat. With the above handling he would be worth twice the price now asked when 3 years of age. His disposition is perfect. He is a true type of the "Brilliant" stock of horses. He looks enough like the old "Brilliant" horse to be a full brother. He is recorded in the Percheron Book recognized by the government. Interested parties will be favored with a late photo of him. This adv. appears but once. Further information can be had by writing Amos Hanson, Collins, Story Co., Ia.

Percherons and Belgians

I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.

FAIRVIEW JACK AND JENNET FARM

40 Registered Mammoth Jacks and 22 Jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri Jacks—the best that grow—14½ to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop., EOLIA, MO. Pike Co.

Percherons and Belgians

THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY." Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.

W. J. BUTLER, OTTAWA, ILLINOIS. Long Distance Phone.

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$650 each. A. Latimer Wilson, Creston, Iowa.

Percheron Stallions Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. Will F. Hooker, Northboro, Page Co., Ia.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$500 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

HORSES AND JACKS.

BELGIAN and PERCHERON

STALLIONS

I HAVE 22 big Belgian stallions that weigh from 2,000 to 2,600 pounds each. Also have a number of big, heavy ton Percherons, weighing up to 2,400 pounds each. I am making extremely low prices on big stallions for the next thirty days, and it is to your interest to see them if you want a big-boned, heavy horse. I can show you the largest Belgians and the best bone and quality that you can find in the United States for the money.

W. L. DE CLOW, CEDAR RAPIDS, IOWA.
America's Largest Horse Importer.

PERCHERON, SHIRE, BELGIAN

AND COACH HORSES

WE have no great blows to make nor big lies to offer, but we today submit to the public a class of horses suitable to the American farmer. We are not stale importers who have been unsuccessful in all our undertakings, but we live and own farms in the garden spot of America, and have farmed, raised and shipped horses all our lives, and it is our knowledge of the need of practical and profitable draft horses that led us to import and offer our fellowmen this sort of stallions.

TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.
BOX 68.

FORD STOCK FARM

IMPORTED PERCHERONS AND BELGIANS



WE have on hand at all times, imported stallions and mares weighing a ton or better; heavy bone and best of conformation. Personal investigation desired and correspondence solicited.

FORD & HARRINGTON, PARKER, SOUTH DAKOTA.
FAIRBURY, ILLINOIS.

Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1908 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.



PERCHERON MARES

BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

C. G. GOOD, OGDEN, Iowa.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

FRANK L. STREAM, Creston, Iowa.

PRIZE BELGIAN

IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Run (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.

Jacks and Stallions

AT QUIET GLENN

ONE or a car load of big black jacks, the kind you want and that will do your country good; no small ones among them. Choice of three good young Percheron stallions. Come at once; write for catalog.

G. M. SCOTT, REA, MO.

Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales.

L. A. MATERN, - WESLEY, IOWA.

FOR sale—A Morgan stud colt, coming three years old; color bay; a fine individual and priced reasonable. Come or write F. Bowman, Eldora, Iowa.

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. Ben Bohlander, R. 2, El Paso, Ill.

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good first-class jacks. Let me show you before you buy. W. L. DE CLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.



HORSES

PERCHERONS, Belgians, German Coachers

AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address GEORGE W. BILBO, CRESTON, IOWA.

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,600 to 2,200 lbs.; easy terms. ½ ton type; Poland China sows. J. J. HURRIER, Cedar, Iowa.

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

HORSES AND JACKS.

Reserved Champions

PERCHERONS AND BELGIANS



2 IMPORTATIONS, 1909, 2

DO you want a first-class stallion or mare? Sound, big bone, size, wide back, true action. PRICES LOWEST, TERMS MOST LIBERAL—GUARANTEE GENUINE. Come and see for yourself GOODS that are a pleasure to show. Trains nearly every hour any direction. Interurban from Davenport. Iowa. Stables in town. For further information, write us.

CHAMPLIN BROS., CLINTON, IA.

Dunham's Percherons



46 splendid stallions and mares arrived Feb. 9th. These, added to our present stock, afford intending purchasers the finest selection in America. If you want the best horses—horses with bone, quality, action and best breeding; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit Oaklawn. Renowned for nearly 50 years as the best. Catalog shows the place and the horses.

W. S., J. B. & B. Dunham, Wayne, Ill.

Horse Breeders

Artificial MARE IMPREGNATORS

WE GUARANTEE you can get from 2 to 6 mares in foal from one service of stallion or jack. Increase the profits from your breeding stables by using these Impregnators. No experience necessary to use them successfully. Prices, \$3.00 to \$5.00 each prepaid. Popular SAFETY IMPREGNATING OUTFIT, especially recommended for impregnating so-called barren and irregular breeding mares, \$7.50 prepaid. Write for CATALOGUE which illustrates and describes our Impregnating Devices, Breeding Hobbles, Stallion Bridges, Shields, Supports, Service Books, Etc. CRITTENDEN & CO., Dept. 49, Cleveland, Ohio.

Increase Your Profits

Stallions and Mares ...For Sale...

THE Iowa State College is offering for sale two choice Clydesdale stallions, coming two years old; one Clydesdale mare, five years old, and one imported Shire stallion, five years old. Address

DEPARTMENT OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON, BATAVIA, IOWA.

Percheron and Belgian STALLIONS and Mares

Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot, ½ mile north of C. M. & St. P. R. R. depot. E. H. Knickerbocker & Son, - Fairfax, Iowa.

GENDARME 43404

FIVE-YEAR-OLD Percheron stallion for sale—steel gray, low set, wide out, close coupled, heavily quartered, with good bone and feet, fine style and action, and a good breeder. Come and see him, or write W. W. VAUGHN, MARION, IOWA.

Percheron Stallions and Mares

SHIRE, Clyde and French Draft stallions. Standard-bred stallions and mares. Registered Draft mares. (Decatur County).

E. P. Hamilton & Sons, Garden Grove, Ia. When writing mention this paper.

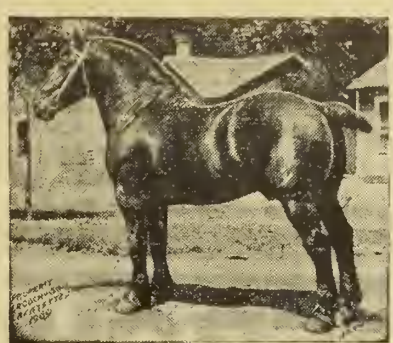
HORSES.

BEFORE YOU BUY A STALLION

Be Sure to See What Is
Offered By The

LA FAYETTE Stock Farm

Where
Quality and Quantity
Are Assured



A grand lot of big-boned Drafters, with the desired weight—**PERCHERON, BELGIAN, SHIRE, GERMAN COACH and HACKNEY STALLIONS and MARES**—a place where you can be suited in a horse at the right price, terms and guarantees.

J. CROUCH & SON, Dept. "G," LA FAYETTE, INDIANA.

W. A. DOBSON, 1374 21st St., Des Moines. General Agent for Iowa.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

Stallions and Mares

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.



HENRY LEFEBURE, FAIRFAX, IOWA.

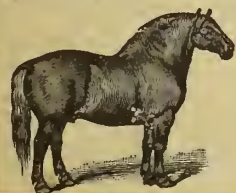
CLYDESDALE HEADQUARTERS

McLay Bros., JANESVILLE, WISCONSIN.

NEW IMPORTATION--18 HEAD STALLIONS AND MARES--DUE MARCH 12

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine Internationals than any competitor, and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them, too. Why above all today does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.**

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Percheron and Belgian STALLIONS AND MARES

OUR third importation arrived January 13th; all with quality, size and action. Stallions from \$800 to \$1,000, a few show horses a little higher. Best mares \$650 in foal. I can save you from 20 to 100 per cent on imported horses the way business is done in this country. Every horse is sold with a reliable pedigree and guarantee. Seward is 29 miles west of Lincoln, Neb.

JOSEPH ROUSSELLE & SON - SEWARD, NEBRASKA



HORSES.

FRANK IAMS'

new importation of draft stallions and mares arrived September 20, 1909, by "Iams' own special train" of "ten express cars." They are "business propositions," that "jar the cherries" on a "wide-awake" "horseman's hat." Iams' "Peaches and Cream" stallions and mares are "eye-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. Iams makes buyers

"SIT UP AND TAKE NOTICE"

"Ikey Boys" get into Iams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 27 years' successful business. He bought and sells better horses cheaper than ever. Mamma, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at Iams' Iams has

200=PERCHERONS AND BELGIANS=200



two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "toppers" at \$1,000 and \$1,400 (few higher), mares \$700 to \$1,000, so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000 SAVED AT IAMS' \$1,000

Ikey, what "a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no stallion salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams' competitors "holler." He is knocking "high prices" out of the Xmas tree. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His \$1,200 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by one-half million dollars.

Write for Million Dollar Horse Catalog, Greatest on Earth

REFERENCES—ST. PAUL STATE BANK AND CITIZENS' NATIONAL BANK,

ST. PAUL, NEBRASKA.

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.**

IMPORTED PERCHERON MARES

Bred to Carnot 66666, International Champion of 1909.



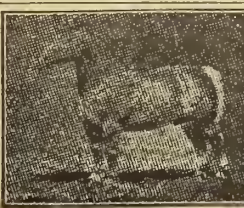
Imported PERCHERON STALLIONS
2-Year-Olds; 3, 4 and 5-Year-Olds; Blacks and Grays.

If you want horses with lots of bone, quality, style and action I can please you. My January importation is now in my barns. I would like for you to see the mares bred to and heavy in foal to Carnot. Get my prices before buying. Only one yearling stallion of my entire importation is reserved. Come and see my 1910 importation.

S. J. MILLER, Kirksville, Missouri.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OCA Percherons before buying. Telephone service. Their 1909 importation arrived November 13th. **Ernest L. Humbert & Son, Corning, Ia.**

HORSES.

CHAMPION PERCHERON FARM OF AMERICA

THIS fall our principal exhibits have been in Percheron, French Draft and Belgians. We were handling Shires until last year, when we saw the demand was for the Percherons, French Draft and Belgians so we have almost entirely made the above three breeds our choice, for the reason that they are in demand by the American Farmer, because they make a clean draft horse, giving very little trouble with their legs and feet, and are much the best horse to feed, improving the most on the feed, and grow the biggest at an early age. We do not ask people to look at the express cars that bring our horses to Wenona, nor single out one horse and tell the people what a wonder this animal is. After trying several other breeds, we say the Percheron is the best breed for the American Farmer, although the French Draft and Belgians have been giving very good satisfaction. If you will note the winnings at the State Fairs, you will see that we have won over eighty per cent of the prizes offered in the Percheron class at the Illinois State Fair, the Iowa State Fair, the Wisconsin State Fair, the Minnesota State Fair and the International Live Stock Show at Chicago. We ask all intending to purchase to note these winnings, which go to prove beyond a doubt the superiority of the stock we have on hand. At some shows and in a class where there were from thirty to forty two-year-old stallions, we won every one offered in the class. Never before in the show ring history has there been such a winning as Burgess has made this year and do not talk about Paris winners, we only talk about American winners.

We have on hand two hundred head of Percherons and have just received another large importation from France. All that we ask is for you to come to our stables and farm and if we do not show you more good, useful, young horses, with more size, more bone, and more quality than any one else in the business, we will pay all your expenses from your home to Wenona and back, leaving you to be judge.

SEND FOR OUR CATALOG WHICH WILL GIVE YOU PRICES AND TERMS.

ROBERT BURGESS & SON

WENONA, ILLINOIS.

Wenona is on the Chicago and Peoria branch of the Chicago and Alton, and on the main line of the Illinois Central, between Freeport and Decatur.

PERCHERON, BELGIAN and SHIRE STALLIONS and MARES



We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on

yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

PERCHERONS

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA. C.O. Keiser, Keota, Iowa

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

Maasdam & Wheeler

Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

GEO. W. SOUVERS & SONS, HUNTINGTON, IND. IMPORTERS OF PERCHERON AND BELGIAN ...HORSES...

If you want to see the best bunch of Belgian stallions to be found anywhere in the West, come to our Sioux City branch barn. Our guarantee is iron clad and there is no importer in the United States who can beat our terms and prices. A visit will convince you. Write for our 1910 catalog. Barns at the Sioux City Stock Yards.

Herbert E. Bray, Manager, Sioux City, Iowa



The Avondale Stud Farm

FOR the next thirty days, will give attractive prices on imported Clydesdale Stallions and Mares; also a few choicely bred hackneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U. S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

JOHN LEITCH, LA FAYETTE, ILLINOIS

La Fayette is located on the C., R. I. & P. Railway, forty miles northwest of Peoria, Illinois.



Ensign's PERCHERONS



OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write **S. A. ENSIGN, CLEGHORN, IOWA**
C. A. PINGEON, Sale Manager.

HORSES.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

SPECIAL PRICES FOR 30 DAYS. THIRD IMPORTATION FOR 1910 ARRIVED MARCH 14th.

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in THE WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

GREAT COMBINATION SALE

OF

PERCHERON HORSES

TO BE HELD AT

SIOUX CITY, IOWA, MARCH 23, 1910

70-HEAD-70

Consisting of 25 STALLIONS and 45 MARES, consigned from the following well known studs:

H. G. McMILLAN & SONS, ROCK RAPIDS, IOWA.
P. W. MOIR, ORANGE CITY, IOWA.
W. H. KERR, BENNINGTON, NEBRASKA.
O. D. HART, LEMARS, IOWA.
MUIRHEAD & BARR, BRADSHAW, NEBRASKA.

These parties are sending their tops to this sale, so the offering will be one of the best that will be sold this year.

If you want a pair of choice mares and fillies, or a young stallion ready for service, do not fail to attend this sale. For catalogs, address

J. B. McMillan, Mgr., Rock Rapids, Ia.

Cols. Woods, Jones, McGuire and Murphy, Auctioneers.

PERCHERON, ENGLISH SHIRE AND BELGIAN STALLIONS

MR. FARMER—do you intend to purchase a stallion this spring? We have just received a new importation of 25 head of PERCHERON, ENGLISH SHIRE and BELGIAN STALLIONS. These stallions have never been shown to the public, but our sale barn containing this new importation will be thrown open to our customers on March 12th. If you want to get in on the ground floor and get your pick from this importation, you want to make arrangements to visit us at an early date. They are an extra lot of good, heavy-boned, drafty stallions, ranging in age from two to five years and weigh from 1,700 pounds up. They are nearly all solid colors. We also have 40 head of the above named breeds imported last August and October. They are all first-class in every respect, both as to their breeding and general make-up and will please the most discriminating buyer. As to our prices, will say that we will give prospective purchasers prices that cannot help but please, breeding and quality considered. We give a straight 60 per cent guarantee without any ifs or ands attached to it. SEND FOR OUR 1910 CATALOG. It is free for the asking. Our sale barns are located opposite the University State Farm, Offices in the Lincoln hotel.

WATSON, WOODS BROS. & KELLY CO., LINCOLN, NEB.

Shires, Clydes, Belgians, German Coachers

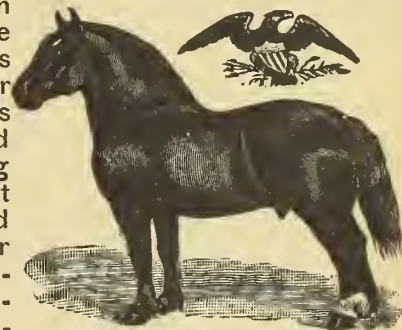
OUR 1909 importation is one of the best that has ever crossed the Atlantic, and we have the best Belgian stallion that has come over this season. Good stallions of all the above breeds, and we are pricing these where every farmer can buy. Come and see us. Address Laben Harrison & Son, Prescott, Iowa

THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October, one in November, another shipment arrived about the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

Special Announcement of Our Second Annual 30-Day Sale ON

STALLIONS and MARES

WE can show you a grand lot of imported horses—Percherons, Belgians, and Shires—that landed here last Aug. They are now in excellent breeding form, all dark colors, 2 to 4 years old, weighing from 1,500 to 2,100. Also a choice lot of American-bred Percheron stallions of serviceable age, yearlings and stud colts. Our importation of Percheron and Shire mares is now ready for sale. With them we can show you a grand lot of American-bred Percheron mares and fillies. All mares of breeding age in foal. Over 100 head of stallions and mares to select from. Every animal goes on the bargain counter. All international winners included. Nothing reserved. Write us your wants today; we will tell you if we can please you. Car fare refunded if you find we have misrepresented anything to you. Remember, every animal guaranteed a satisfactory breeder. If you want a real bargain in a first-class animal of either sex, come at once and get your choice. Our Motto: Prices right; terms to suit; satisfaction guaranteed; no misrepresentations or disappointment on arrival. Write our home bank for reference. Homewood is on the main line of Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly. Bell 'phone, Homewood 204.

S. METZ & SONS, Homewood, Ill., or Abilene, Kan.

New Importation of Percheron, Shire and Belgian Stallions

EXTRA weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.

Protect Your Farm Home and Buildings with Three Lightning Rods in One!

Lightning Arrester



A Single Stroke of Lightning Will Wipe Out Unprotected Home and Property That Represent the Savings of a Lifetime!

Visit your dealer at the first opportunity and thoroughly examine a 1910 **Shinn Heavy Pure Copper Cable Lightning Rod**. See its pure copper cable—3 cable strength—each one a lightning protector in itself! Inspect the center strand—the big one—which with the others gives the maximum of electrical carrying power! No lightning bolt is too strong or too big for this wonderful rod to shoot it straight down into the earth! That's the superiority guarantee of

SHINN'S Heavy Pure Copper Cable LIGHTNING RODS

Name on the end of every roll of cable

All farm buildings—every building—should be protected against fire from lightning, for insurance statistics prove that 75% of farm fire losses of a year are caused by lightning. Are your home and buildings safe? They are **lightning proof** if equipped with **Shinn Rods**! There's no other rod in the world built by the special process that gives **Shinn Rods** their maximum efficiency. Any kind of lightning rod or wire rope will

do when the sun is shining, but think of the serious moment when the heavens seem to have broken—when the thunder deafens you and the vivid lightning flashes are counting time! Then is when you need the very best lightning protection there is—this means **Shinn's**, and under these rods you will be perfectly content. Don't wait until after the storm to get this absolute protection—get it now, before the danger threatens!

\$75,000.00 Bond Backs Shinn's Guarantee!

W. C. Shinn has posted \$75,000, in the form of a bond, with the National Bank of Commerce through the National Fidelity and Casualty Company, Omaha, Neb. This is your guarantee against loss from lightning striking your homes or buildings when they are equipped with **Shinn Rods**. Besides, you receive a legally binding, written guarantee, which itself is backed by this \$75,000 bond! Mr. Shinn guarantees that he will make good any loss by returning cost of lightning rods if buildings are damaged by lightning after his rods are put up!

The editor of this paper will be glad to tell you about Mr. Shinn's integrity and square dealing with his thousands of staunch farmer friends! That \$75,000 bond guarantees and assures you, when you get **Shinn Rods** of your dealer, that every guarantee in this or any other **Shinn** advertisement will be fulfilled to the letter! Who but an honest, reliable business man would dare back up his words with a fortune?

For the insignificant cost of **Shinn Rods** your home and buildings are insured forever against Fire from Lightning!

Your Vane Your Business Card!

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Every dealer who sells **Shinn's Copper Cable Rods** has **Shinn's Thunderstorm Machine** on exhibition. He will be glad to show how this fascinating miniature storm producer demonstrates actual protection of **Shinn Rods**. It shows just why no building equipped with **Shinn Rods** can be struck by lightning. If your dealer has not yet secured this wonderful machine, mail us that coupon, giving his name and address, and we will tell you just where you can see this device at work.

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PROF. S. AVERY,
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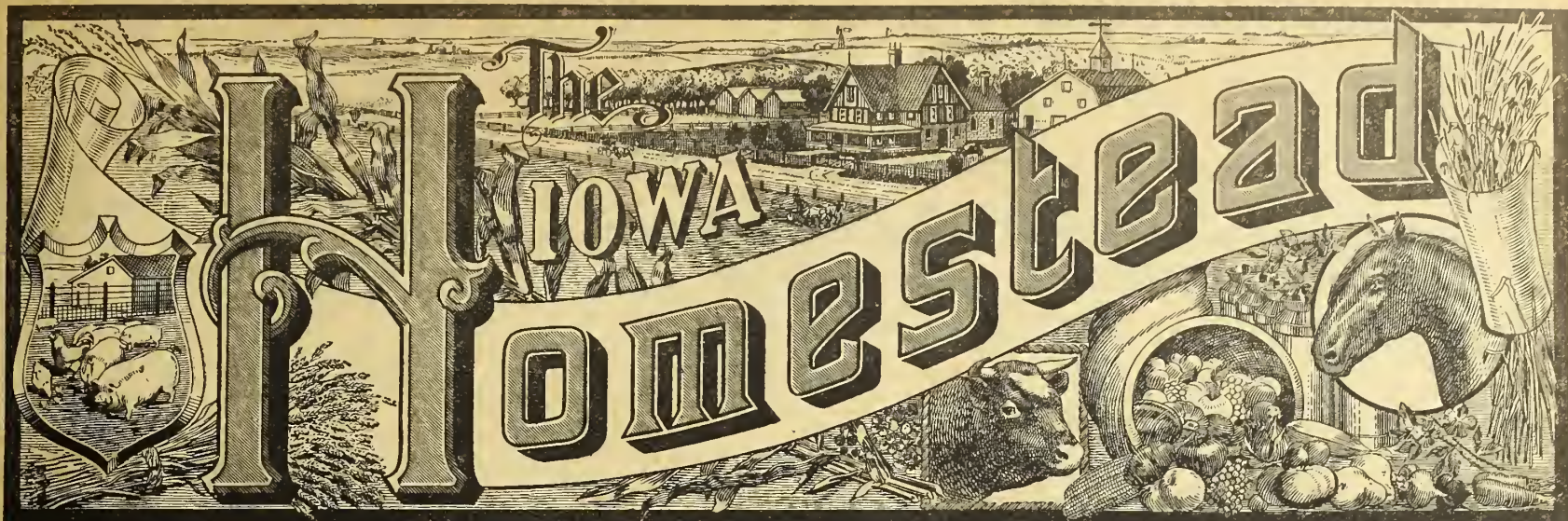
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That's the title of Mr. Shinn's own book, which proves how easy to understand and how plain and simple the laws of lightning are. It tells what articles in any home attract lightning bolts and how to best guard against loss of life and property. The coupon will bring this book free by return mail. Mail it today.



VOL. LV. NO. 12

DES MOINES, IOWA, MARCH 24, 1910

WHOLE NO. 2737



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Write us today
for special
prices.

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Dept. 10

Dubuque, Iowa.

WRITE ME NOW

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in
5 Sizes**

**LOWEST
Prices ever
offered. Try
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on your own
farm.**

Never was so much manure piled around the barns and feed lots as there is this year. Never in 15 years has there been such a need for manure spreaders as there will be this spring? I say again, are you ready? You've been seeing my ads this year, last year and the year before. Never wrote me yet, did you? Just because I advertise you have often wondered if Galloway was really giving the value—the quality.

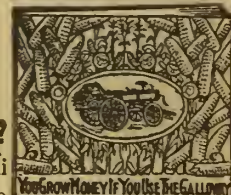
Say! Do you know that that is the reason I sell so many, just because I tell the people about them. All there is to selling the Galloway is simply telling the people about them. That's how I have got the biggest spreader factory making wagon box and complete spreaders, 100 a day, more on mighty short notice. I'm ready. Are you ready?

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Often the highest priced, most powerful Gas or Gasoline Engines give the most trouble—are hardest to keep going—are greediest on fuel, because the charge is hard to fire. The common remedy is to cut down the air and give more Gas or Gasoline. Fuel expense is often doubled in this way. The right way is to throw away batteries and install the

Motsinger AUTO-SPARKER

NO BATTERIES NEEDED TO START

A White-Hot Spark for a Lifetime.

It will deliver an intensely hot spark at from 3 to 15 volts (adjustable while running). This will regularly fire any mixture that can be ignited, at high speeds or low. No battery could do it. Manufacturers of high compression engines make the Auto-Sparker part of their regular equipment for this reason. It is self-regulating, fool-proof and so durable that those made 10 years ago are in use today. Few have required repairs or replacements. A single month's saving on fuel will often pay for the Auto-Sparker. Don't waste expensive Gas or Gasoline. Ask for name of nearest dealer today and we will arrange for a "show-me" demonstration or NO sale.

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hang close to the ground and have barb wire at bottom, so they are hog and chicken tight. You can raise them a little to pass over slight obstructions or away up high enough to let hogs run under or to swing over deep snow drifts. They are made of **High Carbon Steel Tubing**, not common gas pipe, but specially made, double strength tubing that is heavy enough to turn all vicious stock.

Cost Less and Last Longer
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JOS. B. CLAY, Mgr. Iowa Gate Company
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I will ship you an engine and let you set it alongside of any high priced engine on the market and if it doesn't do as good work as any engine built you don't need to keep it—send it back at my expense. My engines are fully guaranteed for five years, sent on sixty days free trial if you wish. Write for catalog.

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607 Commercial St.
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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MARCH 24, 1910.

THE HELPER ON THE FARM

By L. E. Scott

SOME object to the terms, "hired man" and "hired girl," but I know of no synonym. "Servant" is even more objectionable; the terms "foreman," or "herdsman," or "shepherd" are none of them applicable upon the average farm. The term "maid" specializes too much as a "lady's maid," meaning a lady's personal attendant. A "chamber maid," a "waiting maid" are all too narrow to cover the duties of a hired girl in the home. Then why despise good English by trying to dodge such time-honored terms? No honest and faithful employe need blush to be called a hired man or a hired girl, and shame on the person who will think lightly, speak lightly or treat slightly anyone for no other reason than for filling so necessary a position in the world's work.

Some of the best and most respected farmers of today were the hired men of yesterday. Are they not the same flesh and blood now as then? My father once worked upon a rough New England farm for \$9 a month and furnished his own scythe. Am I any the worse that my father was a hired man? In a way, I have followed for a portion of my time in the same line, for I have worked for the most exacting and I think sometimes the most unmerciful of masters, "the public," and am neither proud nor ashamed of it. It is simply the performance of the duty that is the nearest

cne. This is the way I have come to look upon life's work.

Notwithstanding conflicting assertions, I believe we have just as good men working on the farms now as formerly and just as poor ones. Which will you hire? How can you obtain good men? The first essential is to be a good man yourself. If you are a good man you undoubtedly have a good wife. If so you are doubly favored.

You say all that hired men are looking for is "sun-down and wages," but stop and consider. Good men appreciate good homes. Many of them come from good homes, they are out for the wages, to be sure, and so are you. But there is more. This may be the first on the list, so I will say, pay current wages and don't grumble about it. If the young man is ambitious and progressive, he is looking for a place where he can learn and improve. If you are following the same old ruts worn and beaten in the ground by past generations, your progressive man will pass by you and you will have to take up with a back number.

If there are no desirable men in your neighborhood who are available, a few dimes will make your needs known in the want columns of your agricultural papers and will catch the

eye of young men who read and who are alive to possibilities. That is one point gained on the start and you enter into correspondence with them. Not only state your terms, but tell them what you expect of them. State plainly what your lines of farming are. If a breeder of live stock, name the breed. It is well to do this in your advertising. Some men have a preference and would rather work along the lines that they themselves expect later to follow. Insist, upon engaging them, that they be clean and of good morals. If they prove themselves worthy treat them accordingly.

If, after the day's work, the man washes himself, takes off his overalls and puts on his slippers and a clean coat or jacket, there is no reason why he should not have a place at your reading table, and I would much rather have him there than in many other places where his inclination might otherwise lead him.

While the farmer should plan and manage his own business, being positive in his orders and directions and insisting that they be followed, it is well in many matters to confer with your man and ask his opinion. It makes him feel that he is a part of the business and oftentimes I have obtained some valuable suggestions from younger men of smaller experi-

(Concluded on page 6.)



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THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

THUMPS IN LITTLE PIGS.

With hogs at \$10 a hundred, and with no large supply in sight, a little pig is almost worth his weight in precious metal. Thumps is the one ailment that takes so many of the little fellows to an untimely grave. It is a trouble that we have always tried to prevent, rather than to cure, but an Illinois subscriber, Mr. W. H. Underwood, sends the following communication, which deals both with prevention and cure:

One day last fall, after I had finished a talk on hogs at a farmers' meeting, a dozen or more farmers asked me about thumps in pigs. They said thumps were the worst enemy they had to contend with.

Although I had had experience with the disease myself, I never before had the truth of its cause stand out in a more striking way. All these men lived in the corn belt, were thrifty farmers, raised big crops of corn and never allowed their pigs to squeal for feed. They were heavy feeders.

Thumps usually occur in pigs six to eight weeks old and are brought about by overfeeding, which causes congestion of the bowels, affecting the brain, causing staggering, uncertain motions. If the bed is very comfortable the pig is apt to lie around and make matters worse.

When a pig is thus affected, the first thing to do is to make it take plenty of exercise. Drive him about the pen for awhile and he will soon begin to appear better.

As for a dose, something to act as a physic is all that is necessary. I usually mix a little kerosene, lard and turpentine and give as a drench when the case is extremely bad. It is usually sufficient to make the feed light, changing it to a more nitrogenous diet. Some may think that if so simple a thing as change of feed acts as a remedy or a cure, it might be well to use it as a preventive.

It is not enough to furnish a carbonaceous food for hogs merely because it is a fat former. Aside from other reasons, the ration must be balanced so that the strain of digestion and assimilation may be divided equally among the organs intended for that purpose. In physiology we learn that the stomach has to do with the proteids, while the fats are acted upon in the intestines.

If the work is all thrown on the intestines, something will go wrong. The same would be true if too rich a diet of proteids were to be given to the stomach. One thing against a carbonaceous food is that it furnishes but little material for the digestive fluids which must come from nitrogenous foods.

It will pay any farmer who raises hogs to keep oil meal and digester tankage on hand. These feeds are not used as generally as they should be. It is well to give the pigs a feed of shorts at least once a day. I do not mean bran, for bran is a very bad feed for small pigs and very weak for big ones. It is a good plan to give a little salt in the mixed feed and a very little air-slaked lime. These minerals keep the stomach sweet and build up the framework of the body and cleanse the blood.

It may be added that in case of a small litter it is sometimes advisable not to feed a heavy milk-making ration to the sow. Of course, where a lot of sows are running together it is a difficult matter to do this, but, as a rule, the most likely looking little pigs are the ones that take the thumps. Where a sow has eight or nine hustling pigs, they are not very apt to get thumpy, but where she has three or four broad-backed little prizefighters, they are the very ones that are apt to go wrong and those are the cases where we like the idea of cutting down the ration as much as possible. Sometimes it is practicable to make them take a little compulsory exer-

cise by driving the sows and their litters away from the pen and allow them to work their way back at leisure. Then again a laxative food like oil meal, fed to the dam, will sometimes take them over a dangerous period, even when they are getting all the milk from the dam that they can take.

CARING FOR DUMB BRUTES.

A quickened sense of responsibility is causing better care to be taken of dumb brutes, both in the country and in the city. The past winter found fewer horses unprotected by blankets than ever before, while each summer finds more and more fly-nets being used. But the movement has extended in new directions and is rapidly gaining ground.

In Kansas City last Christmas the movement found expression in a horse present day, when all the working horses of the city were given a bag of oats, absolutely free of charge to their owners and drivers. The spirit of Christ thus found exemplification in caring for the dumb brutes who cannot care for themselves. The Kansas City example was favorably commented upon in scores of other towns and cities and it is highly probable that next holiday season will find much of the money which is ordinarily wasted on mankind's frivolities going to make the lot of the brute a little easier.

Still more recently the plight of the horses in the city has been considered to the extent of providing them with overshoes for slippery days. The overshoes consist of four flat chains fastened around the horse's hoof and joining at the bottom, thus giving the animal a good grip on the pavement. The idea is borrowed from the automobile, the tires of which are wrapped with chains in winter time to keep them from sliding. The motor car with its tire chains now has nothing on the horse. Many a bad fall and a broken leg will be saved as a result of man's thoughtfulness in this respect.

The movement has also spread to the feathered friends of mankind. The rallying cry of the farmers, "Save the quail," has sounded in the ears of city folks and they have launched a crusade to save all manner of birds, except those which are public pests (of which, it must be admitted, there are very few). Throughout the past winter thousands of kind-hearted people all over the country fed the birds by scattering crumbs of food on the snow. The movement has gained such headway that in some sections philanthropic people are bestowing as much attention on birds nowadays as they formerly bestowed on the needy humans. A woman who has been converted to the needs of birds in winter describes what she has done as follows:

I got the carpenter to build a little feeding pavilion of oak on oak posts, with a sloping shingle roof to keep off the snow and rain. Inside there are three tiers of oaken trays, in which I have placed every morning a mixture of chopped fat, suet, seeds, oats, cracked Indian maize, meal and grit. Over this mixture we pour boiling water, and when it cools a little the trays are filled with it. On the ground beneath the pavilion we place a large, very shallow earthenware pan of fresh water. This is renewed twice a day in the frosty weather and every morning otherwise. Fresh water is as necessary as food to our bird friends, especially in cold weather.

On the crossbars that support or uphold this structure I hang cocoanuts, stuffed with suet. Our acrobatic friends, the tits, when regaling themselves on these, perform wondrous antics.

This bird-feeding pavilion stands in front of our dining room windows and it is quite delightful to see the joy of birds which visit it. I have also invented feeding troughs for the birds, which are roofed over so as to protect them whilst feeding from the snow and rain. These troughs are placed in sheltered corners of the gardens. On almost every tree I have hung up great feeding sticks, with deep, round holes which are filled with fat and seeds regularly. In the wilderness I hang up meaty bones on the tree branches and other edibles at which the birds like to peck.

Outside each of the bedroom windows I have had oak trays put up on supports of iron. On these trays food and fresh water are placed every morning for the birds. I have also put several hundreds of nesting boxes in the trees and in many quiet retreats all over the grounds, so I think and hope the birds are happy here.

While the great majority of people do not have the time or the money to go in thus extensively for caring for

the birds, the incident is of value as showing the present tendency to realize man's responsibility to look after dumb brutes of all kinds. It is an exemplification of the old refrain, "He prayeth well who loveth well both man and bird and beast." People are praying better nowadays because they are not thinking so much of themselves, but are thinking more of those dependent upon them even to bird and beast.

HOW CROP ROTATION RESTS THE LAND.

The editor of this paper has always believed in the theory of making land do its very best under all circumstances. We must keep it up to its production limit, but this can only be done by taking advantage of certain principles in plant growth by which one crop uses those elements in the soil which another crop rejects. Of course, in the main, all crops take the same ingredients from the soil, but not in the same proportions, and each species has its peculiar ability of attacking certain compounds and leaving others. In view of this, the man who rotates his crops will be the individual under all circumstances who will get the greatest weight from an acre in a series of years.

A Missouri subscriber brings up the question of crop rotation and its value to the land when he says:

My experience has proven that one method of conserving soil strength is by a proper rotation of crops. I know that land cannot grow corn, wheat, oats, or any other grain crop year after year with the light fertilizing it would get without wearing out. The farmer who continually draws on the fertility of his soil without giving anything back to it will some day be brought face to face with the fact that he has a worn-out place on his hands.

While it has been our custom to scatter what fertilizer accumulated about the barn on thin portions of land, a sensible rotation of crops has been followed year after year, and I have found that the soil fertility was maintained thereby. To show about the plan of rotation that has been followed, a forty-acre field will be used for illustration. After this forty-acre field has been in clover or timothy for a couple of years it is plowed up and planted to corn. The first crop is most always good, but the second crop is better. Sometimes the field is planted to corn the third year, but not often. In the spring oats is sown on the corn ground. The oat crop often yields from forty to fifty bushels to the acre. When oats are harvested and thrashed, the ground is broken and put in wheat. The wheat is sown early so that it may get a good growth and be well rooted by winter. Sometimes a mixture of clover and timothy seed are sown with the wheat, but, as clover does not get well enough rooted to stand the rigors of winter, I find it better to sow it on the wheat field in the early spring. Then when the wheat is harvested there will be a good stand of clover and timothy. The following summer a good harvest of hay may be gathered. If the ground has held up well in its fertility, wheat may be sown the second year. This will depend largely upon the yield of the crop for this year.

This rotation of crops seems to have a tendency to build up rather than to deplete the soil. Anyhow, the farmers who practice crop rotation I notice always have good crops, while those who make a habit of growing one crop alone often have run-down farms. I am almost fully convinced of the truth of a statement a farmer made to me one day. He said: "The farmer who makes a business of growing one crop alone on his place will get poorer every year." There is philosophy in this statement, for the land will get poorer and poor land makes poor farmers.

Of course, this doctrine applies particularly in those regions where winter wheat is grown successfully, but even outside of that region the same general principles are applicable as are here outlined. It is a curious fact that lands under a proper rotation system do not wear out or are not reduced in productiveness in anything like the degree indicated by calculating the amount of fertility removed by each crop. We have known scientists who have worked themselves almost into a state of excitement by ascertaining through a series of computations that certain fertility elements in the land would absolutely disappear in eighty or a hundred years, and yet on every hand, we have examples of farms that have been tilled for sixty or seventy years without showing a decrease in productiveness. Where examples of this kind are found, however, it always turns out that a sound system of culture has been practiced, and a rational method of rotating crops carried on. A judicious rotation involves enough

leguminous growth to keep up the nitrogen supply, and the return of enough manure to the land to maintain the supply of humus.

KEEPING THE BOYS ON THE FARM.

The attention of every farm parent is called to the Young Folks' Department in this issue of The Homestead. The great problem of the farm is to keep the boys and girls at home and to remove the lure and temptation of the city from their minds. With this idea in view, the editor of the Young Folks' Department invited the juvenile readers to submit articles telling what work they like best about the farm. It is of interest to note that not only in these letters published today, but in the scores already received and which will be published later, a majority of the boys write enthusiastically how they like to work with the horses and the other live stock, while the girls find their greatest delight in the chicken yard. In not one of these letters is there evidenced any desire to leave the farm and go to the city, because in every case the youthful writer has some pet horse or cow or dog or chicken in which he or she takes an especial interest.

In a recent issue of The Homestead a plea was made for the farm boy and girl. It was contended that if they were allowed to own some animal or some tract of ground, however small, from which to reap their own profits, that they would become so interested in farm work and farm life they would not think of removing to the city. In this connection a subscriber writes as follows:

I noticed in a recent issue of your paper an article entitled "What About the Boy?" which gives some good advice and some that I have been practicing for more than twenty years. My oldest boy had a good horse before he was ten years old and when he was sixteen he had a pair of mares and the finest pair of colts around here, besides owning a town lot on Main street with a building on it. He had also learned to be such a good judge of stock that he was foreman, buyer and seller of blooded cattle, horses and hogs for a northern firm, and bought stock, even registered Percheron mares, in Missouri and Illinois, until he started a blooded stock ranch of his own. My second son had over \$750 when he was twenty-one years old, and has since put another year's savings with it and is now looking over the Northwest. My youngest boy is eighteen years old, five feet, eleven inches in height, and weighs 170 pounds. He is now a better judge of horses, cattle and hogs than many men, and I would trust him with handling my mares and young colts and cows and young calves before I would some veterinarians. He made pork a year ago for \$3.90 per 100 pounds, and this winter his pigs gained through the stormiest weather, from January 14th to February 14th, over one and one-eighth pounds apiece per day. He has four head of horses to handle that carry the world's best blood. On February 28th, he hauled manure from town to start the fourth large pile in our corn field. We do not believe in spreading manure on the snow so that it washes away when the snow goes off, but put it in big piles. We can get it spread before plowing if it is in the field. This boy knows that he has a good farm home and good stock from now on and will have the farm or a larger one when his father and mother are through with it, if he runs it right and does right by us while we live. I believe in fixing property so a boy knows what he will have if he takes proper care of the farm and of father and mother, but I believe in father and mother reserving the occupancy and use so long as we or either of us live.

The tactful and discerning farm parent who allows the smaller children to make play out of their work and by giving them permission to ride the horses or make a game out of bringing in the cows and who supplements this, when the children grow up, by allowing them the care and even the ownership of some particular animal and the tilling and reaping of the crop from some particular tract of ground, no matter how small, has solved the problem of keeping the boy and girl on the farm. A sense of proprietorship goes a long way toward popularizing farm life.

George Logan farms fifteen acres near Crane, Mo. He farms it so well that last year he received \$5,400 for his vegetables and fruit. These fifteen acres are part of the 640 acres his father tried to farm with the aid of a family of boys and the 640 acres never produced as much in one year under the old method as the fifteen acres yield under the new.

SWINDLING STEER FEEDERS.

Some time ago a communication was received from an Iowa subscriber and published in The Homestead, relating to a set of swindlers engaged in handling stock cattle in southern Iowa. The subscriber who sent the former communication claimed that some of his neighbors were duped and duped badly and the Live Stock World brings the matter up again, because it seems that some subscribers of that paper have been fleeced by the same gang and one of them writes:

Here is a little bit about the way the notorious Iowa gang of stock cattle crooks operate:

They are extensive advertisers in stock papers, and often advertise a large number of cattle of different weights for sale, which brings inquiries of parties, generally non-residents of the state. They will answer the inquiry, saying they have such and such cattle, describing them, as a rule, as a good grade of cattle, and saying they ought to have right around such and such a price per hundred. The price quoted is, as a rule, twenty-five to fifty cents less per hundred than the fair market price for that grade of cattle. This, as a rule, brings the inquirer here in person. When he comes some one of the gang will meet him and take and show him cattle, as a rule, inferior to those advertised and inquired about, and if the party makes some objections that these are not the cattle he supposed they were, they will tell him that the cattle he inquired about were sold a day or two before and are now gone.

If they fail to sell the cattle first shown the party, they will tell him then that his neighbor or someone some distance away has some cattle that might be purchased, but he does not know whether they are for sale or not, or in traveling along the road or in going across a pasture they may meet some person (one of the gang) and the one with the prospective purchaser will pretend that he does not know him and act as though he were a stranger to him, and the conversation will lead up to the fact that the party wants to purchase cattle, and the party they met in the road or pasture will probably say he has some cattle that he might sell and they are liable to go and look at his bunch of cattle.

If the cattle are sold they will manage to get the purchaser away from the cattle, which are to be delivered maybe the same or the next day, and when they are delivered they are not the cattle the purchaser looked at or purchased, but will be inferior cattle. Then the member of the gang who left the city with the purchaser after the cattle had been delivered and paid for or about to be paid for, is liable to claim a commission from the purchaser for assisting in purchasing the cattle, and if payment of the commission is refused, will sue out a writ of attachment and attach two or three head, just as the cattle are about to be loaded. That is liable to bring settlement. The cattle sold probably belonged to the one claiming the commission. One of the gang has been known to introduce his own brother by the name of "Peck," or any name that happens to be most convenient.

The father of the principal bunch, as a rule, stays in the background and is not prominent in this kind of dealings.

They are notorious cattle dealers, and, as a rule, have their purchaser from a great distance from this city, where their reputation is not known. Parties of this country know them so well that they refuse to have anything to do with them whatever.

I enclose you herewith a copy of a letter in my possession which was sent to the man addressed after he had seen an advertisement in some paper and made inquiry of one of the gang relative to the cattle, and he came here to see the cattle and finally contracted to purchase of another member of the gang and the cattle were to be delivered the next day, and when they were delivered he decided the cattle had been changed on him and he refused to take them. They immediately served a notice of suit for the purchase price. Two or three of them hounded him all day in an attempt to compel and bulldoze him into taking the cattle, but he refused to do so and did not take them.

He went home and brooded over the matter so that he became violently insane, and it became necessary to take him to an asylum where he remained for two or three months, but is at present out and apparently all right. He was a man of strict integrity and could hardly believe that it was possible for a fellow man to treat another one as they did him at that time.

He had a local attorney file a counter claim for damages, and after the case was called for trial the gang dismissed their case, and so did the other side.

Here is a copy of letter by one of the gang to the Missouri man whom they drove temporarily insane:

"Dear Sir:—Yours at hand. My steers are well-bred natives, dehorned, low-down, blocky kind that will suit any man that is a judge of good cattle. I must sell these steers at once, as I am short of feed. I am wanting to get around (naming a price way below the market) if I can sell soon. I would not take a good deal more if I had the feed to winter them with. My cattle are in extra fine condition, are in good flesh, have had no corn only in stalk fields.

"If you decide to come to see my cattle please write or wire me before

you start, so I will be at home and I will meet you at the train."

We have investigated the subject on the side and we have found the method of these swindlers as described above is correct in every detail. Not a single one of these men own a hoof and they are so thoroughly organized that they have been known to literally skin an old-time, experienced feeder out of his eye teeth. They have been so barefaced and cut-throat in their methods that it is surprising that the business men and particularly the banks located in the towns where these swindlers operate, have not stamped out the plague long before this, because as a matter of fact these rogues have selected prosperous towns and prosperous communities in which to operate. Of course they thrive where land is mainly used for pasturage purposes.

LIVE STOCK RAISING A NECESSITY.

This paper has always enthusiastically championed the cause of the live stock industry. We have frequently pointed out that it is possible to feed our grain and roughage to animals, and yet return from 75 to 90 per cent of the fertility contained in these back to the land. We have in a few instances criticized some of our experiment station workers because they were apparently getting weak-kneed on the live stock proposition, simply because grain was appreciating rapidly in value, and secondly, because the product of an acre in the form of grain furnished so much more food than did the same product when converted into meat. In view of this general situation we are pleased indeed to quote from an address delivered by Prof. Herbert W. Mumford, of the Illinois station, before the Illinois Live Stock Breeders' Association. After showing in an admirable way just why the feeding of most of our grain and roughage to farm animals should be a prevailing practice in the central West, Professor Mumford sums it up in this way:

The importance of animal husbandry as a means of maintaining agricultural prosperity is clearly indicated by the history of nations. A mere comparison of the types of farmers found in England, Scotland, Denmark and Holland with the peasant wheat growers of Russia or with the wheat and rice farmers of India is sufficient to illustrate the close relation between live stock and agricultural progress.

Animal husbandry necessitates rotation of crops and frequent seeding down. It requires activity and skillful management the year round. It compels the farmer to observe market conditions. It brings him in contact with men, both as a buyer and as a seller. It enlarges his heart, and broadens his sympathies beyond the routine of sowing, cultivating and reaping.

Grain farming, on the other hand, leads to continuous cropping without proper rotations. It eliminates meadows and pastures. It involves the strenuous life for a short season of the year, followed by a long period of inactivity. It creates an itinerant laboring class and stimulates tenantry rather than permanent farm homes. It fosters the land-robbing spirit. Corn farmers, wheat farmers, cotton farmers, rice farmers, grain farmers, as a class, are strongly led to overdraw their soil fertility account, for most men engaged in exclusive grain growing manifest small interest in a permanent agriculture. The history of

agriculture in this and other countries shows that the live-stock producers have taken a leading part in efforts to maintain and increase the fertility of soils, and in my judgment the live-stock producers can now be relied upon more than any other class of farmers to carry forward the gospel and practice the highest type of permanent agriculture.

We endorse the views here expressed and it would give us the highest form of pleasure if we could see all of our experiment stations enthusiastically championing the cause of live stock raising as a branch of agriculture admirably suited to corn belt conditions. Just because some farmers are not instinctively stockmen is no reason why we should hold back and let the matter go at that. It is the function of the agricultural press, the agricultural colleges and the experiment stations to impart in the form of simple teaching the principles of stock raising, so that instead of having our cattle and our horses raised by the specialists in a community we may find a few calves, a colt or two, some hogs, and eventually some sheep on every farm.

EARLY HOG PASTURE.

The problem of getting a good pasture for hogs early in the spring where a permanent pasture is not available is a serious one for many swine breeders, and in view of this we believe that many of our subscribers will read with interest the following communication received from an Illinois subscriber, Mr. W. H. Underwood:

While there are several ways of making hog pastures, I have found the following very satisfactory: As early in the spring as possible prepare a rich piece of ground. An old feed lot, rich in plant food, and very likely in disease germs, too, can be made a profitable pasture, and the breaking of the ground, preparing of the seed bed and the growing crops may be a valuable sanitary measure.

It pays to make a good seed bed and when this is done, drill in from one to one and a half bushels of barley or early oats per acre, or, better still, a mixture of these, but one should be sure to use the beardless barley, as some will likely mature, and ripe barley beards are not good for hog feed. Then follow with a grass seeder, sowing a mixture of four pounds of Dwarf Essex rape seed, three pounds of timothy and eight pounds of legume seeds per acre. I have been using alsike, medium and mammoth clovers, but this spring shall include alfalfa. The more kinds of legumes suitable for early sowing the better. I cover the seed with a weeder, sometimes crossing. A light spike-tooth harrow will answer also. If sown early—and the earlier the better—this light covering will be sufficient, as there is usually plenty of moisture in the ground at this time. Sowing rape and grass seeds before drilling oats and barley may be better for the drier, western sections.

When the rape is about six inches high—which will be in six to eight weeks, depending on the season and the time of sowing—hogs may be turned in; the rape, barley and oats furnishing abundant pasture for about twenty-five shoats per acre. In the meantime the timothy and clovers are growing to supplant the maturing barley and oats, and, with the rape, will furnish a well-balanced ration until covered with snow.

The economy of this plan is only fully realized when one finds—as I have found in every trial—that the next year it furnishes the best meadow or pasture on the farm.

I also found it paid big to divide this pasture into two equal parts so

as to pasture each alternately at intervals of one or two weeks, and this can be done cheaply by stretching twenty-eight-inch woven wire which will turn pigs, and, with two barbed wires above, will turn all kinds of stock.

Last year I supplemented such a hog pasture with Canada field peas on an adjoining lot, sown just as soon as the frost was out of the ground, which was plowed the previous fall, the hogs having free access to both lots after the bulk of the peas were ripe.

This lot, enriched by pea vines and hog voidings, was plowed the latter part of July, rolled and harrowed, each twice, and the 3d of August I sowed alfalfa thickly in a seed bed that suited the fastidious tastes and exclusiveness of this legume which regards every other plant an intruder and weed, and hence the necessity for thick seeding in rich, well-prepared ground. In this case I used a hand seeder for sowing the alfalfa, going over the ground twice to get a more even distribution of the seed, using twelve pounds each time. I covered it by going over the ground with a weeder, then crossing, and the thick, even stand and luxuriant growth made last fall proves the extra seed and work a good investment.

A good yearly rotation to make cheap pork from spring pigs in six to seven months is as follows: A hog pasture as above described; a suitable sized patch of Canada peas, best suited for northern sections—for southern sections soy beans and cowpeas can be substituted—and a patch of sweet corn, an early and late variety, separated by a hog fence when the early variety is ready to pasture, thus prolonging the feeding season and avoiding waste.

This covers the field in most excellent shape, and the man who follows the instructions laid down by this subscriber will find that he can raise hogs at about half the cost per pound that it will cost to raise them on grain alone, or even on grain and blue grass pasture. We like the emphasis placed on rape and peas in the crops mentioned above. The latter enriches the ration in the most important element of all—nitrogen—while the former is an exceedingly heavy yielder and even when partially pastured it comes on again at a most rapid rate.

SEEDING DOWN DIRTY LAND.

A subscriber at Audubon, Iowa, sends the following communication:

I was quite interested in reading about your subscriber who has land infested with cockleburrs, and who is thinking of seeding down the same. I advise him to sow oats, timothy and clover and not to fear the results. In 1907 I bought a farm all covered with cockleburrs. They were so thick that a man could take them up with a scoop. I sowed two bushels of good, clean oats to the acre and also two parts of clover to one of timothy, using one bushel of this mixture to six acres. The oat crop was not very satisfactory, as it only yielded sixteen bushels per acre, but the clover and burs were fine. It was a neck-and-neck race between these two crops for a time, but the burs won out, so about the first of September we put in the mower and cut everything back close to the ground. This was in September of 1898 and in 1899 we had a big crop of clover and timothy with hardly a bur to be found. In view of our experience I think those of your subscribers who are similarly situated cannot do better than to handle infested land in the same manner.

There is no question but what this is a splendid way to handle land infested with burs, and the only objection we have ever found to the plan was that sometimes cutting the young clover and timothy back in the early fall will give it such a shock that it will not live through winter. That is the only risk to run, but we believe with this subscriber that it will generally pay to take the risk. Of course there will in all probability be some burs in the ground that will show up when the land is again plowed, but in the meantime the soil will be greatly improved in texture, and enormously enriched in the fertility supply by the clover and timothy.

This fable is printed by a daily newspaper for the benefit of its advertisers, and those who ought to be: "In a certain barnyard there were two hens, one of which, when she laid an egg, cackled, because she knew when she had a good thing, and wanted others to know it—that hen believed in advertising. And many were the breakfasts her enterprise supplied. When the other hen laid eggs she disdained to cackle. 'What's the use?' she said. 'Everybody knows I lay eggs,' and she cackled not. One day the owner of the hens by accident discovered the nest of the noisless one, and it was full of eggs. But they were too old to use. And immediately he cut off the head of the hen that refused to be 'modern' and advertise."



BIG VICTOR.

Big Victor, the great show and breeding boar at the head of the D. C. Longergan herd at Florence, Neb. He is one of the recognized breeding boars today in the West and is the sire of the fall boars that Mr. Longergan is offering for sale on page 49.

COUNTY ROAD SUPERINTENDENTS OR ENGINEERS?

It has been estimated by experts that in a single corn-belt state \$2,000,000 is wasted annually in making and maintaining roads. It is not meant that this sum is absorbed in the form of graft, but rather that it is so irrationally used that it is the same thing as a total loss. In spite of this fact, the delegates to a large state good roads convention held recently placed themselves on record by substantial majority vote against the introduction of more system into road making operations. The vote was taken on a proposition to establish the office of county engineer in order to standardize or co-ordinate the efforts of all road officers throughout the county and indeed throughout the state.

In defeating the proposition to create the office of county engineer, the argument was advanced that it was simply another attempt to deprive the farmer of his rights. Those who opposed the creation of this office pointed out that since the state was first settled, the responsibilities of making and maintaining roads have been borne entirely by farmers through the township trustee system and road superintendents. It was stated that the farmers themselves are the ones to have charge of this work, because of their familiarity with conditions, and that the efforts of a county officer would simply be lost in the large road mileage in every county.

That the placing of the roads of a county under the supervision of a trained man will in any way endanger the principles of democracy as applied to local government, is in our opinion absurd on its very face. Why do we place our schools in charge of a county superintendent? Is it not because the effect is to co-ordinate the efforts of all the teachers in the county, while the people through their township trustees still retain authority locally?

Many of the counties of the grain belt spend \$50,000 annually on their roads. Much of this money is spent in constructing culverts and bridges, and, as a matter of fact, a great deal of the so-called permanent work now being put in is not satisfactory. The modern traction engine weighs in the neighborhood of twelve tons, and many of the culverts and bridges now being put in have practically no margin of safety on the basis of traction engine weights.

A hustling engineer could return to the county a big profit over and above the expenses of his office, even on the cost of the bridges and culverts alone. In these days we need men who "know," and the best available evidence which indicates that a change in system is needed, is shown by the fact that bridge contractors are fighting, tooth and toe nail, the proposition of establishing the office of county engineer. These contractors would much rather deal with men who have no technical knowledge of bridge building, than with skilled men, and one instance was pointed out at the convention mentioned where \$7,000 was saved on a single bridge, by a county resorting to the advice and the use of the specifications furnished by the state highway commissioner. It is no reflection on the ability of the township trustee to say that he is not grounded in engineering principles, because that is not his business. The labor situation is such at the present time that it is much better and much cheaper to have our roads worked by those who understand road making principles and who give their entire time to the work.

The county engineer or superintendent would not deprive the township trustees or the county supervisors of their present authority, but would, on the other hand, supplement their efforts. Local authorities would have everything to say as to what roads should be improved, but after that it would be for the engineer to say how they should be improved. Not until we get a system of that kind will we progress in our road-making operations. Indeed, as we see it under the present plan, we must go back, because township trustees are not giving as much attention to the roads today as they did ten years ago. As farmers, they have a heavier responsibility today than they had a decade ago in managing their own affairs,

and in the meantime, the people as a whole are beginning to realize that our roads are not improving. As a result, we expect the sentiment to change, and the opposition to the plan of co-ordinating our efforts in making roads to break down in the very near future.

We shall be pleased to have an expression of opinion from those of our readers who are interested in this important subject.

A COMPLIMENT TO THE DRAFT HORSE.

The following communication has been received from a subscriber at Osage, Iowa:

At the present price of horses, especially good draft horses, it seems to me as though there is as much money, or even more, in feeding high-priced grain to good draft colts, as to other young stock. The first thing for a young farmer going into the business is to select the breed he likes and stick to that breed, as all of the large draft breeds are well adapted to this country. One of the most important things to learn is how to feed and care for your horses. The best horse can be ruined by poor management.

After deciding what breed you want, I would buy some of the best graded mares of that breed. If you can get pure-bred mares, so much the better. I would breed to the very best stallion, and if there is not a good stallion in the neighborhood of the breed you like, get a neighbor and go and get one. I would prefer breeding my mares to the same stallion every year, because by so doing you will raise a bunch of colts alike both in disposition and color. There is nothing nicer to see than a bunch of horses all of the same breed and color, and this can be obtained by the method I have just mentioned. Always sell your poorest horses, and by no means sell your best young mares. A young, sound mare of good size and quality is cheap at \$250. Every farmer ought to be just as sure about getting his mares in foal as of getting his corn in the ground. The brood mare will do her share of the work, besides raising a colt. The colt should be well fed and cared for, because a colt fed well will bring as much money when two years old as a colt that has been poorly fed will bring when four years old. The demand for large draft horses is great, and I believe horses will be still higher in the future. The man with good brood mares nowadays has the next thing to a gold mine.

Of course at this time of year the man who owns a good mare is going to keep her, so that the advice to buy draft mares cannot be taken now. We strongly endorse, however, the doctrine of performing farm labor with brood mares wherever it is possible to do this. We find that we can work our mares right up to the very day of foaling, and indeed, in our opinion, they are all the better for the labor. When the colt is a month old, or even two weeks old, for that matter, the mare can again go to work and do a moderate day's labor between sunrise and sunset every day. Of course, when the mare is worked, the little fellow must receive some special attention in order to get the greatest possible growth the first year. Nothing is better for him than plenty of good oats.

CAN FARM WORK BE SYSTEMATIZED?

It is practically impossible to apply system to agriculture, as one would apply it in manufacturing, for instance, for the simple reason that the farmer has to deal so much with conditions and forces that are not under his control. In mapping out his rotation for the year he may decide that he will put a certain acreage, for instance, in oats, and say double this acreage in corn, while the season may turn out to be favorable for oats and unfavorable for corn. In that case he would have been ahead to have put in a larger area of oats. He may go into hog raising at a time when brisk prices are being paid for finished hogs, and yet about the time he is ready to make a shipment he may have to market his surplus at less than one-half per hundred pounds what they were worth when he started. These are some of the antagonistic forces that work against the farmer's welfare, and yet with it all there is such a thing as system, and the man who systematizes will win in the end.

Prof. A. F. Woods, director of the Minnesota Experiment Station, in a contribution to the last year book of agriculture, has this to say on the subject of systematizing agriculture:

In the past most farming was conducted with very little regard to sys-

tem. Corn, wheat, oats, hay and cotton were the staple crops grown year after year on the same land, often without manure, until the soil failed to produce satisfactory crops, when it was turned into pasture or allowed to run wild and produce weeds to seed down the rest of the farm. No records or books were kept, the cost of production was unknown, and what became of the product after it was sold from the farm was of little concern to the farmer. He took what he could get for it—often less than the cost of production—and a little later bought some of his products back in a slightly modified form, but at a much higher price.

The age of specialization in industry took away from the farm the crude manufacturing arts and greatly improved and developed them. The farmer gradually gave up one thing after another until he was reduced to the production of a few raw products which had to be sold through the complex machinery of commerce and manufactures carefully organized to buy cheap, sell high, and save everything. But men who as boys left the farm and who were trained in this school of modern business have been going back to the farm, taking these methods with them. Science and business are now being applied to the arts of agriculture with increasing thoroughness and skill.

The modern farmer must know the type of farming to which he himself is best adapted and where it can most profitably be conducted. If he is a dairyman, he must know the milk breeds of cattle and the best strains of the breeds for his conditions. He must know the feeding value of the various crops and the rations required to produce the best results. He must know all the sanitary regulations for keeping his milk pure and marketing it in the best condition. He must figure out the rotation of crops adapted to his conditions and his needs and with due regard to maintaining the fertility of his soil. He must know the conditions and the demands of his market and be able, through co-operative methods or otherwise, to get his products to the consumer without all the profits being absorbed in the process. And so with every other type of farming that succeeds in this new century.

It is true, after all, therefore, that certain general principles must be systematically adopted by every producer. In the stock business, for example, it is not the man who is engaged in raising one kind of stock this year and another kind the next year, who wins out, but the man who takes the bitter with the sweet and has practically the same number of live stock to market when prices are high as when they are low, and vice versa. If he is a successful dairyman he must have his certain standard of production for each season of the year, so that the labor supply may meet the needs of the situation. He must adopt the general principles of robbing the soil of its fertility supply, or in turn apply such methods of restoration as will maintain the supply or possibly increase it. The only difference between the man who succeeds in farming and the one who fails is that the former understands certain general principles that are sound under all conditions, and these he applies, while the man who fails generally assumes that farming is a chance game at best, and the more chances you take, the better you are off.

A \$2,200 CAR LOAD OF HOGS.

One of our subscribers from Sterling, Ill., sends the following communication:

I believe I have smashed the record, capped the climax, won the prize, and carried away the belt against all comers for a period of fifty years. I refer to the shipment of a single-deck car load of hogs, numbering sixty-seven, which weighed 20,780 pounds, or an average of 310 pounds each, and sold at \$10.67 1/2 per 100 pounds. This single load netted \$2,218.26. I will admit that it looked dubious for a time in January, when the meat boycott was on, causing prices to drop from ninety to seventy cents in eight days, but I never lost my nerve, and finally landed on top.

This is certainly a record to be proud of, and it is one that, no doubt, will stand for some time. We think it was two years ago last month that it was our pleasure to market a load of hogs just about as heavy as these, for which we received the handsome figure of \$4.70 per hundred pounds. They had been fed on high-priced feed and netted us a very substantial loss. The run of hogs at that time was exceedingly heavy, and we thought at the time, and always will think, that the packers took undue advantage of the producers because the price of meat did swing back in time for them to make an unheard of profit. The result of that condition of affairs put many a man out of business, and that is why we are breaking records in the

other direction at the present time. If we mistake not, the margin of profit in pork products realized by the packers during the next few months will in a measure offset some of the exorbitant earnings of two years ago, and in the end it may result in teaching them a lesson that they will not soon forget. It is our hope that we will never again see hogs as low as five cents a pound, for the simple reason that hogs cannot be raised at a profit any more at that price.

THE HELPER ON THE FARM.

(Continued from page 3.)

ence. If the man errs, tell him so plainly and firmly in simple language. Mild English is sufficient to make him feel that your opinions and desires are to be respected.

If you find that you have secured a competent and faithful man, try and keep him. Arrange and plan your business so you can furnish him with steady employment the year round. Don't be exacting with him if he loses a few hours or a day now and then. The chances are that when you are in a rush he will work extra hours to get in the load of hay or grain before it becomes damaged by a shower or sit up with an ailing animal and thereby more than make it up.

There are all kinds and grades of "hired men." There is a chance that you may be unlucky or deceived, but, generally speaking, it is up to you, my farmer friend, as to which kind you employ.

SUBSCRIPTION OFFER STILL OPEN.

The Red Letter Subscription Offer will be held open only a few days more. It is an unparalleled opportunity to secure the year's best and most practical reading matter at the lowest cost. The offer is simply this: Remit \$1.50 to The Homestead, Des Moines, Iowa, and the following six splendid papers will be sent you one entire year: The Homestead, Kansas City Weekly Star, Home Life, Kimball's Dairy Farmer, Commercial Poultry and National Swine Magazine. The regular price of these six papers is \$3 a year. By means of this offer you secure them at exactly one-half price. They are of practical value to every member of the farm household.

SECOND SEED CORN SPECIAL.

A seed corn special, to spread the gospel of better seed corn, will traverse the Rock Island railroad between Des Moines and Neola, Iowa, the week of March 28th. Lectures will be delivered in the various towns at which the train stops by Prof. P. G. Holden, Prof. M. L. Bowman, Prof. A. H. Snyder and Prof. M. L. Mosher. The Iowa State College of Agriculture will send a representative to each locality where lectures are to be given and secure samples of seed from twenty different corn growers as widely distributed in the various counties as possible. This corn will be put in a germination box one week previous to the arrival of the lecturers. The germination boxes containing the corn gathered from the counties in which the lectures are to be given will be used in the lectures and demonstrations.

The itinerary of the special train is as follows:

	Ar.	Date.
Van Meter	10:30 a. m.	28
Dexter	2:30 p. m.	28
Stuart	7:30 p. m.	28
Guthrie Center	10:00 a. m.	29
Adair	2:30 p. m.	29
Audubon	9:15 a. m.	30
Exira	2:00 p. m.	30
Atlantic	7:30 p. m.	30
Lewis	10:00 a. m.	31
Walnut	2:45 p. m.	31
Avoca	7:30 p. m.	31
Oakland	9:15 a. m.	1
Harlan	2:00 p. m.	1
Neola	10:30 a. m.	2

It is confidently expected that between 20,000 and 25,000 farmers will be attracted to the train and the lectures. A special baggage car will contain model corn testing, planting and harvesting devices, the good points of which will be explained by experts.

Some one has delivered himself of this little bit of sound philosophy: The man who can bottle up his wrath under all circumstances is certainly a corker.

Live-Stock Lawsuits are Expensive

The Moral of a Half Dozen Cases Tried Out in Various Courts Where the Costs have More than Equaled the Value of the Stock Involved---Vindication and Property Rights Expensive

NOTHING could more conclusively prove the expensiveness and the delay of litigation than the experiences in recent years of a few grain-belt live-stock raisers. President Taft in one of his recent messages to congress urged that steps should be taken to reform court procedure to the end that verdicts might be secured with less delay, less possibility of disagreement in the jury room and less uncertainty from the contingency of appeal. The cases which are set out below may be exceptional in that the amount of costs and attorney fees are large and the original sum at stake small, but they are simply in line with many other cases which prove that when a lawsuit can be avoided, practically at any cost, it is best to do so.

One of the most striking cases in line involves two small pigs of no pedigree and of a value not to exceed \$3 each (some witnesses testified that fifty cents each was a more proper value), the litigation over which has now cost fully \$1,000. This pig case is now in its third trip to the supreme court with the \$1,000 cost bill attached. The pigs themselves long ago entered into an estate of pork chops and sausage, with none of the market benefits that court association has since given to the valuations. It was in May, 1907, that B. F. Mathias, a farmer living near Ottawa, Kan., missed two small pigs from his farm. His nearest neighbor was Bert Tawney, between whose family and the Mathiases there has been a slumbering feud since thirty years ago when the elder Mathias and the elder Tawney disagreed on the matter of a country road. Search for the pigs disclosed them on the premises of Joe Lockwood, Tawney's brother-in-law. Bert Tawney was arrested. The Tawneys told a story of repeated invasions by the pigs, of their finally being locked in the Tawney barn where they had been caught trespassing by Mrs. Tawney, and by her carried in a sack and sold to her brother without her husband's knowledge. Notwithstanding this defense Tawney was convicted. The supreme court overruled the case. Tawney was tried again in 1909 and again convicted, but the supreme court once more overruled. During the last few weeks the third conviction has resulted and the case is now in the supreme court for the third time, with the costs of prosecution already amounting to \$1,000.

Another long-drawn-out and expensive hog case was that in which C. H. Swiney, of Webster City, Iowa, was the plaintiff and the American Express Company the defendant. The suit was brought because of the death of a valuable Poland China sow, sixteen months old, raised by Mr. Swiney and exhibited at the Iowa, Minnesota and Wisconsin State Fairs. In transportation from Minnesota to Webster City the crate in which the sow was being shipped was dropped or let fall in some manner so that the rear end was broken. The hog was seriously injured and died a day or two after being received from the express company. Suit was brought in the district court for \$1,000, and on the trial Mr. Swiney received a verdict of \$675. The case was carried to the supreme court and after almost a year's time was affirmed. The express company filed a petition for rehearing, which was

finally granted on a minor technicality which the supreme court deemed advisable to have argued at greater length. The reargument was finally presented and the supreme court affirmed its former decision, but it was not until three years after the filing of the petition that the final decision was given, while the expense of the litigation had more than offset the amount of damages received.

Still another case in line is that of Frank D. Winn, of Randolph, Mo., who exhibited a valuable hog at the Iowa State Fair, only to have the animal die as the result of being transported from the fair grounds to the railroad station on an oppressively hot day. Mr. Winn brought suit to recover the full value of the animal. After having the case postponed in the state court several times, the express company filed a motion to have it removed to the federal court. The federal judge decided in favor of the express company. Mr. Winn appealed to the United States Supreme Court where the case was sent back to the state court. Subsequently the express company, on minor technicalities, again attempted to have the case transferred to the federal court and in this position the matter now rests. Two and one-half years have elapsed and the case has not yet come up for trial, which would seem to give substance to Mr. Winn's complaint: "It seems to me that the laws are unjust in that they allow cases to be delayed years in this manner."

Mr. Winn has had another experience in the dilatoriness of the courts. He had a car load of hogs wrecked on the Wabash railroad in 1900 and was able to secure only one trial of the case in six years, it being delayed from time to time and finally appealed, until in sheer desperation Mr. Winn finally settled the \$7,000 claim for \$1,250.

Without doubt the most noted of all cases in which the expensiveness and dilatoriness of lawsuits are proved is the famous "Jones County Calf Case." Four calves, the market value of which was only \$25, caused the greatest lawsuit in the history of American jurisprudence. The litigation extended over twenty years, was tried in seven different counties before 114 jurors, was four times appealed to the supreme court of the state, wrecked the fortunes of eight men, entailed fees amounting to \$75,000 for a regiment of lawyers and finally concluded with a final judgment for \$1,000 and court costs amounting to \$2,886.84. The story of this case has been told by a recent writer as follows:

Robert Johnson, of Anamosa, Iowa, to vindicate himself of a criminal charge preferred against him by a "Horse Thief Association" of pioneer days, fought through this long period against seven opponents. Since the conclusion of the case five of the defendants have died without property and two yet live, but have never regained a foothold since the famous lawsuit consumed their wealth. Johnson has prospered, but by strange destiny of fate in his every enterprise he must cross swords with the opponents in his long legal duel. When he became a candidate for mayor of his city last spring, fifteen years after the settlement of the suit, his opponent was B. H. Miller, a relative of one of the defendants in the twenty years' litigation. Johnson's record in the "Calf Case" for being a persistent fighter, together with a platform for strict law enforcement and a moral city, won him the election. He is mayor today.

C. E. Wheeler, of Cedar Rapids, as a young law graduate of Notre Dame, received his first retainer from Robert Johnson. He made his maiden speech in the "Calf Case" and remained in the litigation from beginning to end. He won his victory after opposing before the juries such brilliant orators as Ex-Governor Horace Boies, of Waterloo. When final judgment was rendered he was a gray-haired old man and a lawyer of experience.

In the early days of Iowa, Robert Johnson was a stock buyer in Jones county. In June, 1874, he sold to S. D. Potter, in Greene county, fifty head of calves. A short time later John Foreman, one of his neighbors, asserted that four of the calves belonged to him and in a Greene county justice court, by replevin proceedings, recovered their possession. To reimburse Mr. Potter for the value of the calves Mr. Johnson gave him his note. He explained that he had bought the animals from a stranger who gave the name of Smith. In a country store at Olive the proprietor and several loungers heard the bargain made between Johnson and the stranger. Shortly after this proceeding an indictment was returned in Jones county against Johnson, charging him with having stolen the four calves. Johnson and a brother then went to Greene county and had Potter point out the four claimed by Foreman. They proved to be high-grade calves, whereas Johnson had bought scrubs of Smith. Then Johnson discovered for the first time that he had not handled the Foreman calves at all and began to believe he was the scapegoat for another's crime. He refused to pay the note he had given Potter, on the ground there was no consideration. Suit was commenced against him in justice court, and after a long and expensive litigation Johnson

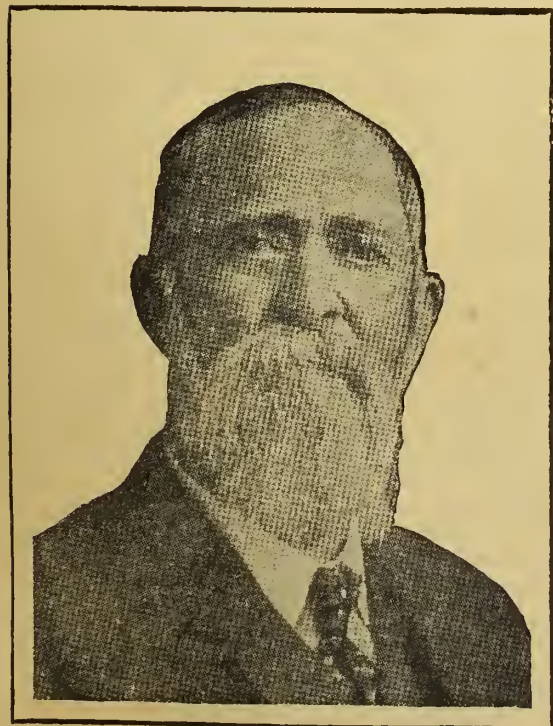
was defeated and had to pay the note, on the ground it was in the hands of an innocent purchaser.

When he was indicted Mr. Johnson filed a motion to quash because of a defect. The prosecution of Johnson was prompted by an organization of those early days known as the "Horse Thief Association," perfected as a protection against the prevailing wholesale stealing of stock. A few days before the court gave consideration to this motion Johnson found on his horse block near his home a note accompanying a piece of rope tied in a hangman's knot. It read: "In view of the present indictment we understand that you are under. We understand that you calculate to have the indictment set aside. We advise you to appear and be tried under the indictment with the defect, if any exists, or take the lamented Greeley's advice and go West, or take this--- We, the Committee."

Johnson was a fearless man. He pursued his motion. The indictment was quashed. Another was returned. A change of venue was taken to Cedar county. He was tried, and the jury disagreed by a vote of eleven for acquittal and one for conviction. Then one night his house and barn were mysteriously burned to the ground. He was tried a second time and acquitted.

Johnson determined to have revenge and vindication. He gathered information concerning the membership of the "Horse Thief Association," and on May 23, 1878, started suit in Jones county for malicious prosecution, demanding \$10,000 damages from E. V. Miller, David Fall, George W. Miller, Abe Miller, John Foreman, S. D. Potter and Herman Keller. A change of venue was taken by the defendants to Linn county and from there a change was taken to Benton county. The case was tried here first with a disagreement of the jury. It was tried a second time and Johnson recovered a verdict for \$3,000. The court set the verdict aside. A change of venue was then taken to Clinton county. At the conclusion of the trial there Johnson secured a verdict for \$7,000. The court set that verdict aside. A change of venue was then taken to Blackhawk county. There Johnson again won. This time the jury said he should have \$5,000. From this verdict the defendants appealed to the supreme court of Iowa and the case was reversed. On the next trial in Blackhawk county, Johnson was awarded, by the jury, a verdict for \$6,000. From this the defendants appealed to the supreme court and again the case was reversed by this highest tribunal. On the last trial in Blackhawk county, Johnson recovered a verdict for \$1,000 against six of the defendants, the court having instructed the jury to return a verdict for the defendant, Herman Keller, whose connection with the "Horse Thief Association" was not proven. The six remaining defendants filed one motion to arrest judgment and another for a verdict for the defendants on the ground the findings were in conflict with the general verdict, the judge having submitted certain specific questions for the jury to answer. Both motions were overruled and judgment rendered against the six defendants. There-

(Concluded on page 41.)



ROBERT E. JOHNSON.

The man who only after twenty years of tedious and costly litigation fully vindicated his innocence of having stolen four calves.



CHARLES E. WHEELER.

The attorney who fought Mr. Johnson's long battle, known as the famous Jones county calf case, in the courts to a successful issue.

FARM FURROWS

Turned By a Practical Farmer

When the price of every thing the farmer had to sell was ridiculously low, as was the case a few years ago, no voice was raised in protest, but now when the price of all farm produce is where it should be in order to make farming a little more attractive it seems that we have uncovered a whole nest of knockers. Is this fair to the farmer?

A cottonwood grove was looked upon as an eyesore before the portable lumber sawing outfits came into use. Now the value of such a grove is figured by the number of feet of lumber it will make. There is no question but that such lumber would be a profitable crop to raise, but it seems to us now that the harvests would come rather far apart.

When a youth I liked duck hunting better than any other shooting, and I am not yet averse to taking a crack at a flock of mallards, if it doesn't take too much walking to get near them and too much crawling to get within good shooting range. Time was when I would crawl for a half-mile to get a shot at a lonely teal. I suppose boys are still boys.

Forefathers of this generation paid little attention to the selection of seed grain by grading and cleaning. They lacked the devices and machines that modern inventors have given to us, and were it not for a virgin soil to make amends for agricultural sins committed, I frankly do not believe that agriculture of 100 years ago would have amounted to much.

One of my neighbors has always contended that the lease bound only the landlord, and a short time ago I found out he was right. I have a farm that I rent, and the tenant had a lease that did not expire until 1911, but he recently took a notion to move to his father-in-law's farm, and move he did.

If it could be made as clear that we cannot take heavy crops from the fields year after year without putting anything back in the form of fertilizers any more than we can continually take grain from a bin or crib without renewing the supply we would hear less about worn-out and abandoned farms.

Unloading fodder with a sling may be a new wrinkle to some, but I have a neighbor who unloads all he hauls in that way. He feeds into a rack out of a mow in his barn. Two pulls take off a load and lay it straight in the mow.

Shingles are becoming poorer as they go higher in price. The six-to-two shingle (six to two inches in thickness) used to be as thick as the five-to-two is now. The next time you have the opportunity to measure a bunch of shingles do so. Nine chances out of ten you'll find them scant in thickness, and there'll be 240 in a bunch, but you pay for 250.

I see that recent tests prove that there is no difference in the digestibility of beef, pork, mutton or in the different ways of cooking them or even in the fat, lean, tender or tough kinds. I mean to say, however, that there is a whole lot of difference in their tastability, likability, juicability and costability.

I will submit a topic or two which could be used as a subject of an essay by the boys and girls who are attending school. For the boys it will be this: Function of Cream in Butter-Making Operations; and for the girls: The Part Taken by Apples in the Making of Apple Sauce. Those are hard topics, I will admit, but I think that the brightest boys and the brightest girls will be able to say some rather wise things when they get properly started.

I have never seen the snow disappear so rapidly as it has this spring,

and I have never seen moisture dry up as quickly. Farmers who had corn in the field found that the ground was firm enough to hold up a wagon within forty-eight hours after the snow disappeared, and they lost no time in getting as many wagons and men in the field as they possibly could. I find that corn that was out all winter is just as hard and solid as what was in the crib, though I am free to say that my corn was not lodged badly.

It's a very pleasant sensation to have one of your best horses go lame just as you are ready to start work in the spring. I have a gelding worth \$250 if he were sound, but recently he took a notion to put out a bog spavin and as a result he is acting like the mathematical dog, inasmuch as he is putting down "three" and carrying "one."

It seems to me that hogs are assuming a much more aristocratic air than usual this spring. My hogs used to have manners enough to walk out of my way when I went through the yard, but now I have to go around them every time. Whether it is because they know they are worth ten cents a pound or because they are getting fat, I am unable to say, but I don't like it very well.

One of our subscribers took offense at the illustration that appeared on the front page of a recent issue of this paper, where a fond mother was shown in the act of making repairs. If there is one scene on a farm that is more common than another in these days of barb wire, I would like to know what it is, than that of a mother putting in a stitch here and another there, so that things will hold together until night. The kind of modesty that a scene like this shocks is too thin-skinned for me.

Verily, it takes two to make a quarrel, but quite often one of them is an unwilling party in the case. When there is one very willing one and one very unwilling one, I like to see the willing one get plenty before he gets through. I think everyone else is willing that he should, too.

Once in a while shiftlessness wins out in farming operations. I am reminded of this by the condition of the corn that was left in the field all winter. Where land was weedy last fall the corn dried out a week or ten days earlier this spring than it did on clean land. Of course, I do not conclude that dirty farming is to be preferred to the other kind. A field of my own corn was cleaner than the balance, and I had to husk it last as a result.

It used to be the sewing machine agents that made life a burden for the busy farmer; after a time it was the piano agent, but now it's the auto salesman. They always want to "demonstrate" when we want to plow.

One of the best crops of oats I ever raised was "hogged in." Weather following favored them, however, or they might have been a failure. When spring weather continues wet, one is sometimes forced to do a little "hogging," or do nothing at all.

The only bad thing I can see about ten cent hogs is that I have none ready for market just now. That is undoubtedly the way with many others, hence the ten cent hogs.

If there were not a few days in the spring when the fields were too wet to be worked, many pasture fences would go without fixing. "And," puts in young Furrows, "there would be no ducks to hunt."

I would like to see a good culvert wherever one is needed, not a plank, foot-trap affair, but a concrete or stone structure, that will remain through all eternity.

Plowing under a heavy growth of trash is a good thing for some soils

and a bad thing for some. Plowing it under just before planting is usually bad for any kind of soil, because it prevents the sub-surface from packing as it should, and if rains are not frequent the field soon dries out as deep as it was plowed.

Going away from home at this season of the year is expensive if the complete care and use of the teams is left with the careless hired man. There are hired men who are careful with horses and hired men who are careless. Carelessness at the start of field work is often ruinous.

A good way to get a new horse collar to fit just right is to throw it into a tub of water the night before it is used first. When it comes out of soak in the morning put it right on the horse. In an hour it will be shaped to the shoulder if of the right size to be shaped at all. Take it off then and let it dry.

The man who is your sincerest friend when he wants something, but who will hardly speak when you meet if he doesn't want anything, is not the kind of a neighbor I like. The man who is just the same, whether asking or being asked for a favor, is a good neighbor wherever he is.

Last fall I was riding with a friend, and on going by one of his neighbors he made some remarks about a hay rake that was standing close by the road. "If that isn't mine," he said, "it looks just like it, although I didn't know mine was gone." Upon getting to his home he searched in vain for his hay rake. I believe in being neighborly, but this is too neighborly to suit me.

That anyone in the corn belt should be short of feed for stock cattle, seems strange, but it is a fact in thousands of instances, this spring. Many depended upon thirty to forty days of pasturing the stalk fields, but with corn still in the field, that has been impossible. I do not know exactly what an old-fashioned winter is, but for want of a better name, let's call this one that.

The variety of corn should fit the soil. Last week I was shown what a friend called his choice of corn. It was of large type and deep grain, just the thing for creek or river bottom soil. There is where it grew last year, but this year he was going to plant it on upland. I once made that mistake myself, and do not propose to do it again. I told him of my failure, but could see that only a trial will convince him of the mistake, as it convinced me.

Fanning dirty oats in a close bin, on a hot spring day, is a job I am willing to set up against all comers, but it pays to do this very job. If the oats are dirty enough to make the work very disagreeable, it is all the more reason why the cleaning should

be done before seeding. I have yet to find a drill or seeder that will sow evenly and accurately of dirty oats.

Two shares for each plow come in mighty handy. It is also a good plan to have all plows on the farm of the same make, on account of the interchangeability of the shares. Having two plows of different makes is a nuisance because of the shares.

As a rule, when it is wet enough to make it necessary to use the scrapers on the disk harrow, it is wet enough to keep the teams out of the field, but now and then a small patch of poorly-drained land will make scraping necessary, while the rest of the field is in the best of condition. Therefore, insist on scrapers when buying a new disk, and be sure they are good ones. It is the practice of some dealers to throw off a dollar on the price when not taking scrapers, and a still more foolish practice of some buyers to buy with the scrapers left out.

Common chunks of draft mares sold for \$300 each at a sale held near me, the other day. Several years ago I remember reading a sign that was seen sticking on a pasture gate, along late in the fall of a very dry year. The sign read: "Bring your halter and \$5 and take your pick." It was said the pasture contained some very good horses, but the owner was going away and all his neighbors hardly had feed enough to winter what they had. It's a far cry from \$5 to \$300.

Tearing into the work just as if there were not another day coming, is poor policy when the teams are soft. It is a good way to ruin horses and lose more than your gain.

I know of a local paper whose editor interviews all the mail carriers when the roads are in good condition to drag after each rain, and secures the names of all the men who donate work on the drag. These are then published as a roll of honor. Of course a man doesn't drag roads just to have the good he is doing in that way exploited, but, all the same, one likes to know that the good he does is being noticed, and it certainly is by those who travel the dragged roads, whether they read the paper or not.

Cold weather stayed with us until the first day of March then a run on the snow banks was started that is sending them down Salt Creek or some other creek. Anyway the snow is about gone and a few are husking their corn that was left in the fields last fall.

The present high prices paid for hogs is bringing out many enthusiasts who claim that the day of cheap hogs is past and that they are going into hog raising to the limit. While it seems hard to discourage such enthusiasm it is well to remember that history has a habit of repeating itself.

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CURRENT EVENTS

THEODORE ROOSEVELT returned to civilization last week, coming down the Nile to Khartoum, where he was greeted by his wife and daughter Ethel. His hunting trip of a year in the African wilds is now at an end and after a few official visits in various parts of the Dark Continent the ex-president and his family will return to America by the way of Europe. Colonel Roosevelt refuses to be interviewed on public questions until he has had time to post himself thoroughly as to the events which have transpired during his absence. Those people who have been confidently predicting that he would express displeasure at the Taft administration will shortly find that they are prophets without honor in their own country or abroad. Colonel Roosevelt has known President Taft intimately for many years. Taft was a member of Roosevelt's official family and the two have been close personal and political friends. Many, if not all, of the most important acts of the last years of Roosevelt's administration were talked over with Taft and Taft's counsel and guidance largely influenced Roosevelt. It is a foregone conclusion that now that Roosevelt has returned to civilization, where he can deny canards, that the political commentators will cease to attempt to make trouble between him and Taft.

PRESIDENT TAFT delivered an address before the Irish Fellowship club of Chicago, St. Patrick's day, in which he paid a fervent tribute to the part the Irish people have played in the development of America. The occasion was unique in that a square of sod had been imported from Ireland and the president stood on it while delivering his talk. The Chicago papers report that the sod was viewed by thousands of loyal Irishmen when it arrived and that tears glistened in hundreds of eyes, as memory carried the exiles back to the "fair hills of holy Ireland." No people are more loyal to their native land or have higher hopes for the future than the Irish. Repression, in their case, has meant ambition and development. "Home Rule" is still the rallying cry and the heart's ambition. The Irish have played a prominent part in the progress of America along all lines and President Taft was only too glad to pay them the tribute they deserve, admitting in a jovial manner than while not an Irishman himself he has kissed the famous Blarney stone.

MORE than \$1,000,000 has been added by the house of representatives to the appropriation recommended by the committee on postoffices and by-roads for the rural free delivery service for the year ending June 30, 1911. This appropriation, it is said, will be sufficient to permit the establishment of 3,000 new rural free delivery routes, as it will make available for such extensions about \$1,500,000. The action was taken by the house after an extended debate, in which democrats from the southern states took a prominent part in the advocacy of an increased allowance for rural free delivery. It is a matter of congratulation that the rural free delivery service has been taken out of politics to such a large extent. Both democrats and republicans are uniting in demanding an extension of the service, which is no longer in an experimental stage but has proved its actual, practical value. It is probably true that a large number of routes have been established in the past more to secure political influence and prestige than to benefit rural constituents. But these routes are being weeded out and the service put on a business-like basis. No routes are being maintained which do not serve a sufficient number of rural patrons and no new routes will be established which are not actually needed. The service is

altogether too good and too valuable to be impaired by the ambitions of congressmen or by political rivalry and deals.

A FALLING out in the ranks of Peary's party now seems imminent. It will be recalled that when Commander Peary returned to civilization there was considerable discussion as to just why he had not allowed Captain Bartlett to proceed with him to the pole. Peary contended that it was absolutely necessary that Bartlett should stop his northern journey one day's trip from the pole and return to keep the homeward track open. There were those, however, who maintained that because Bartlett was a British subject Peary sent him back without reason. There were others who contended that Peary wished for himself the honor of being the only white man at the pole. Now it seems that Matt Henson, Peary's negro bodyguard who was with the commander when he discovered the pole, is incensed at Peary. Following a lecture delivered in Syracuse a few evenings ago, Henson is quoted as saying: "I am very much surprised since we landed in New York on October 3d, that Peary has paid no attention to me and has not even communicated with me. After the hardships we went through together and the work I have done for him, not mentioning the number of times I actually saved his life, I think he should do more than he has. It is all on account of his selfishness. He wants everything for himself and evidently begrudges me what little success I may be having with my lectures." Evidences thus multiply that Peary is a man of domineering, overbearing disposition and cannot brook any rivalry. This is the explanation of his attitude toward Dr. Cook. It is unfortunate that Peary should be a man of this caliber, for there is enough honor in having discovered the North Pole to divide both with Bartlett and with Henson, to whom undoubtedly much credit belongs for the success of the entire venture.

UNION labor troubles have occupied considerable attention the past week. While the strike of the street railway employees in Philadelphia bids fair soon to be settled, the disaffection has spread to the middle West. W. S. Carter, president of the Brotherhood of Locomotive Firemen and Engineers, announces that a strike of 25,000 firemen of western railroads will be called unless the issues are arbitrated within a few days. This affects the operation of every train on practically every line of railroad between Chicago and the Gulf of Mexico and the Pacific coast. The controversy involves forty-seven lines altogether, embracing 150,000 miles of railroad. Wages and the hours of labor are the issues involved. It has been several years since the middle West was tied up on account of a serious railroad strike, but the situation at present promises to become serious. It is not as bad as if the strike were to come in the fall, when the crops were to be moved, but there is heavy freight at this season of the year, due to the transporting of spring stock of merchandise and the year's new models of farm machinery, automobiles, etc. In case the firemen walk out, it will be necessary either to put non-union men along side the engineers or else to man the cabs altogether with "scabs." In either event rioting and even bloodshed may be anticipated. Labor problems are seldom settled amicably until after trouble has been experienced.

THE United States has a new trust buster in the person of Judge W. S. Kenyon, of Fort Dodge, Iowa, who has been appointed assistant to the Attorney-General to succeed Wade Ellis, of Ohio, resigned. Judge Kenyon has been for several years one of the general attorneys for



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NOW is the time to buy. Don't delay. Others have advanced their prices and we will soon have to. Get our figures, and they will prove how you have been held up by local combinations. WE SELL DIRECT TO THE CONSUMER, at wholesale prices, Lumber, Millwork, Builders' Hardware, Roofing, Paint, Cement, etc. We do not have to "assemble" your order from half a dozen different points, but can and DO supply all of a builder's needs from our immense stock here in Council Bluffs. You can have your entire bill loaded here without delay. We pay freight on all carload lots. We will pay the expenses of your trip to Council Bluffs. Write us AT ONCE for further particulars.

C. HAFFER LUMBER COMPANY

COUNCIL BLUFFS, IOWA

I am a reader of The Iowa Homestead and want to know more about your plan. Send your catalogue.

I expect to build..... When.....

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the Illinois Central railroad in Chicago. The government position pays a salary several thousand dollars less than he has been receiving recently, but the judge believes that there are opportunities for good in the public position greater than those in his private position. He has attained high standing in the legal profession and brings to the position an ability and acumen which are earnest of a marked success. The position involves the handling of the government suits in the enforcement of the Sherman Anti-trust law. Judge Kenyon is said to be in personal accord with President Taft in regard to this matter, and it is expected that the splendid start which has been made by Mr. Ellis will be continued by Judge Kenyon.

RIVAL expositions in honor of the opening of the Panama canal are being planned by two California cities, San Diego and San Francisco. The former is raising a fund of \$1,000,000 and the latter \$5,000,000. Neither city will give in to the other and each is going ahead making its separate preparations for the event. It is expected, however, that state influence will be brought to bear, to the end that only one show will be held at which California may be host to the entire country. In the meantime the work at Panama is progressing satisfactorily and there is every evidence that the canal will be finished by 1915, as promised by the engineers in charge.

THAT the high price of living is partly due to the farmer's lack of knowledge of the best methods of raising his produce is the claim made by Dean C. F. Curtiss, of the Iowa State College of Agriculture. Dean Curtiss explains the high cost of living in this manner: "The conditions originated immediately after the panic of 1907. The price of meat went down and the farmers paid less attention to raising live stock because of the low prices. As a result the meat supply of the country began to get low and now the demand is greater than the supply." Dean Curtiss declares that the farmers can make more money by raising corn and feeding it properly to their hogs and cattle than by marketing the corn at \$1.50 a bushel. He is not an advocate of intensive farming as a solution of present economic troubles so much as he is of teaching the farmers to increase the products of their farms and dispose of them at cheaper prices. Dean Curtiss is particularly interested in the agricultural extension work and in the course of his recent speech

A LITTLE THING Changes the Home Feeling.

Coffee blots out the sunshine from many a home by making the mother, or some other member of the household, dyspeptic, nervous and irritable. There are thousands of cases where the proof is absolutely undeniable. Here is one.

A Wisconsin mother writes:

"I was taught to drink coffee at an early age, and also at an early age became a victim to headaches, and as I grew to womanhood these headaches became a part of me, as I was scarcely ever free from them.

"About five years ago a friend urged me to try Postum. I made the trial and the result was so satisfactory that we have used it ever since.

"My husband and little daughter were subject to bilious attacks, but they have both been entirely free from them since we began using Postum instead of coffee. I no longer have headaches and my health is perfect."

If some of these nervous, tired, irritable women would only leave off coffee absolutely and try Postum they would find a wonderful change in their life. It would then be filled with sunshine and happiness rather than weariness and discontent. And think what an effect it would have on the family, for the mood of the mother is largely responsible for the temper of the children.

Read "The Road to Wellville," in pgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

in which he outlined his views declared that five times as many farmers could be reached and interested in better methods of agriculture than are now being reached, with proportionate results in the aggregate crop yields. He made a plea for better rural schools and home conditions, maintaining that these are prominent factors in keeping the boys and girls on the farm.

LET EACH LAND OWNER DRAG HIS ROAD.

To the Editor of The Homestead:

Well, the Iowa Good Road convention is now a thing of the past and while it aroused the public interest, the net results are very meager. The paper by Judge Lewis, of Montezuma, in my humble opinion, is the very meat of the cocoanut. He stated that the only successful plan of road dragging is for each farmer to attend to the highway along his own farm, and this in my opinion beats the river to river plan advocated by some. Mr. Lewis' plan makes all roads river to river routes, and moreover it is more just to all the land owners because it is admitted by all that good roads increase the value of farm land. Every farmer ought to have the benefit of good roads and not have to drive to any designated route to get them. Justice should prevail even in road building. Now we are just where we were before the convention—we have the law and the trustees. I would suggest that the people of a township call a well-advertised meeting, appoint a president, secretary and treasurer of the trustees and have a free discussion on ways and means. I may not have the pleasure of attending because of infirmities of old age, but would suggest that it is well to have a definite program, as simple as possible, something like this:

1. Is dragging the road feasible?
2. Is it cheapest and most desirable?
3. Should the trustees hire it done by contract with a certain number of farmers, or should each one drag his own frontage?
4. In cases of widows and other land owners who do not wish to care for their part of the work, shall the officers of this association let their share to some neighbor?
5. Shall the officers of the association build, or cause to be built, the necessary culvert work?
6. As only actual land owners are supposed to drag the roads, others being liable for poll and other taxes, when not paid in labor under the supervision of the trustees, the money, if any, shall revert to the road fund.
7. Finally, what disposition shall be made of the individual who used to boss the township and never had any money to work the road with?

I commend this to township trustees and farmers in the country. You will find there is no joker in this, not even a boss or an engineer. Let every man own a drag and if you adopt the plan of every man caring for his own frontage, the road man's work will be very short. If contracted to say a dozen men it will not be a big job. Get the right kind of drag, as light in weight as needed, make it a rule for every man to ride; don't send a small boy to represent a man. Be honest with the road.

A pamphlet on the split-log drag can be had by any one writing to the Secretary of Agriculture, Washington, D. C., for Farmer's Bulletin No. 323. As near as I can figure out, the cost of the material for making the drag is something less than four dollars, which will, if used at the proper time, do better work than a six-horse grader. If these remarks can be proved I have demonstrated that good roads are easy of attainment at a less cost than heretofore. All the money is used for work done, and of course the men who do it will receive the remuneration provided by law.

John Taylor.

Keokuk county, Iowa.

DUAL FARROWING.

To the Editor of The Homestead:

I noticed an article in your paper recently regarding a sow farrowing

twice in one month. We had a Duroc sow that farrowed six pigs on May 2, 1909, and on May 20th farrowed ten more, eight live ones and two dead. The pigs were all perfectly developed and all right. Like Mr. Schimley I had never heard of such an incident

before, and it struck me as being a very singular coincidence.

E. C. Fusell.

A man advertising for muleteers spelled it "mullet ears." That ought to have brought results.

Why Made-to-Order Paint is Desirable.



WHAT are the advantages which the property-owner gains by using pure white lead and linseed oil paint mixed especially for his own work at the time of painting?

¶ First, he is sure that his paint is made of good materials. Paint to wear should be made of pure white lead and

pure linseed oil. Many paints have been found by various State chemists to contain water and fish oil or kerosene instead of linseed oil, and chalk, barytes and other substitutes instead of white lead. The property-owner can protect himself against these impositions if his paint is made to order. ¶ Second, by making it to order the property-owner can be sure his paint fits the work it is expected to perform. Every painter knows he must mix his paint differently for wood which is porous and wood which is dense; wood which is dry and wood which is sappy. What chance has a paint made for one condition to wear on a surface of entirely different nature?

¶ See that your painting is done with pure white lead bearing the "Dutch Boy Painter" trade-mark, mixed especially for your work with pure linseed oil. The "Dutch Boy" guaranty costs nothing, yet is real paint insurance.

¶ Send for our "Dutch Boy Paint Adviser No. 18" for valuable pointers on paint, including latest decorative ideas.

Our Pure White Lead ("Dutch Boy Painter" trade mark) is now packed in steel kegs, dark gun-metal finish, instead of in oak kegs as heretofore. Ask your dealer.

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or Gang Plow

That Will
Harrow
While You
Plow



The Champion Pulverizer

The Champion Pulverizer is the invention of a practical Iowa farmer who realized that the best time to do his harrowing was just after the furrow was turned, and by means of the Champion he saved all the time that he usually used in harrowing, had his field in better condition for seeding and got better crops because the Champion saved most of the valuable moisture that with the ordinary way of plowing and harrowing was allowed to evaporate.

Size 1, the 5 blade Champion, can be attached to any make of sulky plow, either right or left, and size 2, the 9 blade Champion, can be attached to any make of gang or sulky plow. Neither size creates any side draft and as the weight of size 1 is only 28 pounds and of size 2 only 38 pounds, the same team can with perfect ease do the same plowing in a day with a Champion attached as they would do without it.

The Champion is always under the easy control of the man operating the plow. It turns corners just as easily as the plow and will not clog in any kind of soil, as the blades are made of soft center plow steel which scours perfectly. It works just as easily in breaking new land or in corn fields, as it does in wheat, oat or other grain fields.

Price of Size 1, \$7

Price of Size 2, \$8

We Pay The Freight

Thousands of Champions were used last year and thousands more will be used this year as farmers all over the country are ordering them now for their spring plowing. We guarantee every one to give perfect satisfaction or money will be refunded. Write at once for illustrated circular and testimonials or send us your order at once subject to above guarantee.

Union Transfer Co., Box A, Dubuque, Iowa.

HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A DRY MASH HOPPER.

A bulletin has recently been published by the Kansas Experiment Station on the selection and feeding of laying hens. Some attention is given in

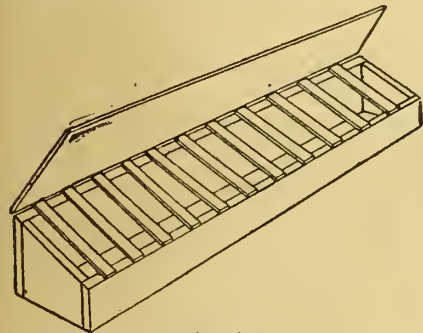


Fig. 1.

this bulletin to conveniences that are used around poultry quarters. There is for instance a dry mash hopper illustrated in Fig. 1. This hopper, as indicated in the illustration, is 36 inches long, 8 inches high at the back and 4 inches at the front. It is 8 inches deep. There are twelve inch-pieces across the top, these being plac-

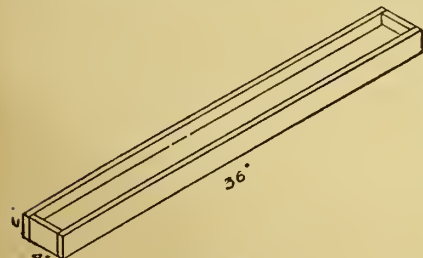


Fig. 2.

ed 2 inches apart. There is a top cover placed on hinges so that it may be opened and shut at any time. A little chick hopper is shown in Fig. 2. This is 36 inches long, 2 inches high and 4 inches wide and of course it is made out of inch lumber.

A Sensible Pig House.

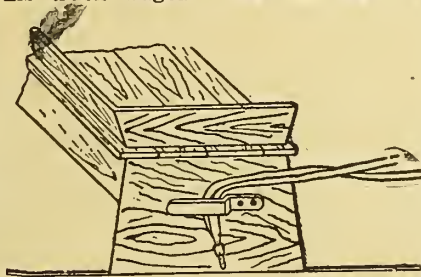
Thinking it may be of interest and encouragement to your readers who are raising pigs farrowed in midwinter, I herewith send sketch and description of hog house planned by Mr. James P. Condon, of Oak Park Farm, in this vicinity, writes Thomas O.



Boyle, of Webster county, Iowa. He has at the present writing fifty little pigs born in February, during the cold-est period. They are thriving and in fine condition and Mr. Condon gives the credit to the place he has for housing them. They show promise of meeting a \$10 market. Last summer after an investigation as to materials and proportions of hog houses in general, he came to the conclusion that hollow cement blocks was the material he desired, and that most of them were too wide for sufficient sunlight and ventilation, so he had one built according to his own ideas. He used a hollow cement block with a water and frost proof facing. Having a fine sand pit on his farm he contracted with a cement concern to do the work. They made the blocks on the ground on an up-to-date block machine. The building is sixty-four feet long, ten feet wide, and ten feet high on the front and seven feet high in back. He put on a three-ply rubberoid roof, which is warmer than shingles, and guaranteed for fifteen years with a coat of paint every three to five years. He had a cement feed lot put in, running the entire length of the building, and believes it is a great factor in having healthy hogs and more sanitary than any other kind. It

also makes a fine approach. He has a tight board fence in front of the feed platform, thus having a good windbreak, and on sunny days their hogships enjoy a sunning thereon. The fall and winter was a good time for the test of the wall and it proved both water and frost proof. Part of the time Mr. Condon uses sand for bedding, but through the coldest weather it was necessary to put in straw for the brood sows and their litters.

A Racine county, Wisconsin, market gardener has worked out a little device for holding the reins when not in use. It consists of a little clip which is attached to the side of the seat of his truck wagon. The lines can be



slipped into this clip very easily and are held securely. By means of this little attachment he always has his lines handy and where he may reach them with ease should the team become frightened. The attachment is inexpensive and can be easily made by any good mechanic or blacksmith.

Many a man has learned by experience that silage is less likely to freeze when properly removed from the silo. The accompanying drawing

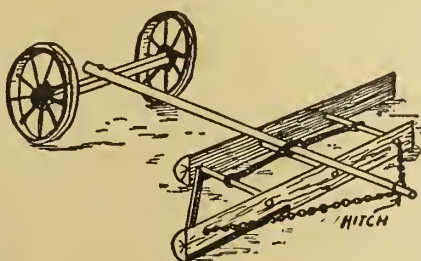


Cross section of silo showing method of removing silage.

fairly illustrates the wrong and right method of emptying a silo. In figure B the silage has been removed from the center and allowed to remain higher about the walls. Obviously this

method induces frost to gather a thick layer of silage to the wall. When the silage is removed as indicated in figure A the center is kept the highest and thereby preventing the accumulation of frozen silage about the edges. A thin layer or thickness of silage is much more liable to freeze than is a large body of the succulence.

The accompanying cut will give you an idea of what I use on my spilt log drag to keep it in line with the team and make drag cut off ridges without



sliding off sideways, writes J. W. Sutliff. It is a forward truck for an eight-foot binder, with flanged wheels and holds the drag as steady as a grader. The side chains are fastened to a large ring, slipped over the tongue.

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That is why Overlands give more for the money than any other car in existence. That is why these cars outsell all others. The man who sees an Overland wants no other car.

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The new Overland catalog and "The Wonderful Overland Story" will be mailed on request. These cars have become the sensation of motordom, and you should know the facts. Send us this coupon today for the books.

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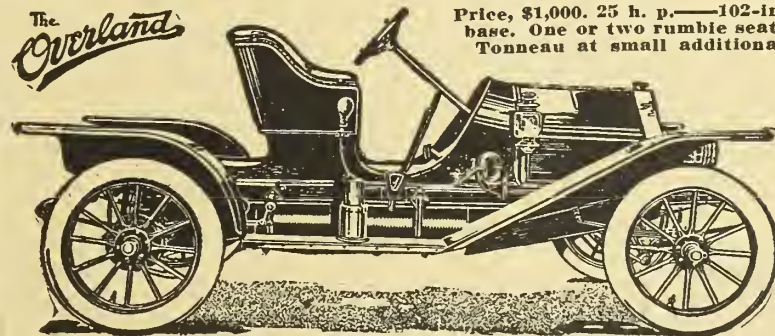
The 25 horsepower Overland sells for \$1,000. It has a 102-inch wheel base and a possible speed of 50 miles an hour.

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The Overland



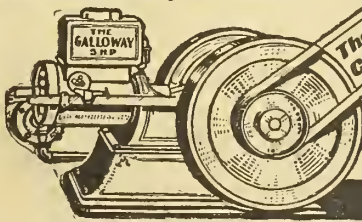
Price, \$1,000. 25 h. p.—102-inch wheel base. One or two rumble seats or Toy Tonneau at small additional price.

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SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horse-power from a real engine factory. Save dealer, jobber and catalogue house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. I sell them direct to you for less money than some factories can make them at actual shop cost.

All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities). Anybody can afford and might just as well have a high grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for, in carload lots, for spot cash. An engine that is made so good in the factory that I will send it out anywhere in the U. S. without an expert to any inexperienced users, on 30 days' free trial, to test against any engine made of similar horse-power that sells for twice as much, and let him be the judge. Sell your poorest horse and buy a

5-H.-P. Only \$119.50



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Don't plow a single acre till you read how to save all the work and time of harrowing and how to make the most perfect seed bed with the **KRAMER Rotary Attachment** the original and only genuine. Send name for Free Book, No. 14 or see your dealer now. You can't afford to be without a Kramer. **THE KRAMER CO., Paxton, Ill.**

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OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW ABOUT CIDER VINEGAR.

A subscriber of The Homestead, writes us substantially as follows:

I am an old farmer in Henry county, Iowa. I have a fine orchard and for years I have been making cider vinegar of my cull apples. I place the cider in the sunshine and it turns to vinegar, which I sell to my neighbors as pure cider vinegar. When made in this way, vinegar does not reach the standard set by acid manufacturers, and I notice that a number of farmers making such vinegar have been arrested by pure food inspectors. I would like to know whether or not a farmer has the right to sell such vinegar, provided he does not actually misrepresent it, and whether the selling of it as pure cider vinegar amounts in law to misrepresentation; also, whether the addition of commercial acid to such vinegar to raise it to the standard test would be adulteration.

According to the pure food law of Iowa, it is unlawful for any person, firm, or corporation to manufacture, or introduce into the state, or solicit or take orders for, or sell, exchange, deliver or have in his possession with the intent to sell or exchange, expose or offer for sale or exchange, any article of food which is adulterated or misbranded, within the meaning of said law. The law declares that an article of food is deemed to be adulterated, when it does not conform to standards established by law.

The standard established by law for cider or apple vinegar, is as follows:

Vinegar, cider vinegar, apple vinegar, is the product made by the alcoholic and subsequent acetous fermentations of the juice of apples, is levorotatory, and contains not less than four grams of acetic acid, not less than one and six-tenths grams of apple solids, of which not more than 50 per cent are reduced sugars, and not less than twenty-five hundredths gram of apple ash in 100 cubic centimeters (20°C); and the water soluble ash from 100 cubic centimeters (20°C) of the vinegar contain not less than ten milligrams of phosphoric acid and requires not less than thirty cubic centimeters of decinormal acid to neutralize its alkalinity.

What awful rot this is, to be enacted into law, and enforced against the Iowa farmers who make vinegar from the apples of their orchards!

If a farmer manufactures cider vinegar, or sells it, or offers to sell it, and it does not conform to the standard

above set forth, he is guilty of a misdemeanor, and liable to be punished by a fine not exceeding one hundred dollars. To be on the safe side of the law, a farmer would have to be an analytical chemist, or else employ one every time he makes cider vinegar, and he would need to have a well equipped chemical laboratory in his orchard.

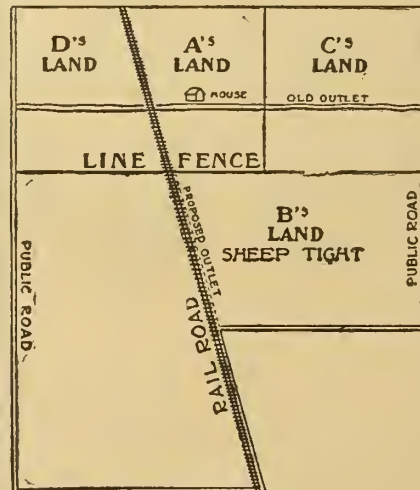
Here is a farmer who makes pure cider vinegar from apples, adding to it no foreign substance whatever. By the forces of the air and the sun, a product is wrought out of the cider, which is entirely pure and wholesome, with no poisonous or injurious elements in it, yet the farmer in selling it to his neighbors who eagerly want it, and prefer it to factory vinegar, renders himself liable to punishment as a criminal, if it lacks somewhat in strength, or does not conform in all respects, to a complicated standard which is beyond the comprehension of farmers generally, and nearly all other persons, except expert chemists. If the farmer adds commercial acids to his sun-kissed cider, to raise the strength of the vinegar to the required test, it amounts to adulteration.

The language of the clause establishing the standard is involved and unhappy, if not ungrammatical, and leaves the impression that it was doctored up in the interest of manufacturers, and for the purpose of making it "hard sledding" for the farmers. In all probability, most of the legislators who enacted it into law have no adequate understanding of its meaning, or its effects upon their constituents.

LAW QUESTIONS CONSIDERED.

OPENING PRIVATE ROAD IN MISSOURI.

A Subscriber, Mercer, Mo.—A, B, C and D own adjoining farms in Missouri, with roads and lines as shown in the diagram. A has had an outlet to the public roads through the lands of C and



D for thirty years, but lately they have shut the gates on him, and he now wants to force a private road through the land of B, and if he does this, B will have to have a sheep-tight fence along the way and keep it up. How must A proceed to get the private road, and must he pay damages to B?

Answer.—To get a private road through B's land, A must petition the county court, stating that he is the owner of his land, and that no public road passes through it or touches it, and asking that a private road be established through B's land, connecting A's premises with the public road, describing the location of the road desired and its width as desired, and serve copy of said petition and a notice when it will be presented to the court, on B ten days before it is presented. When presented the court will appoint three disinterested commissioners to view the premises, and mark out the road, and assess damages to be paid to B by A, and will on return of such report order the road established and the damages paid.

PARTITION FENCE—VIEWERS.

A Subscriber, Hopkinton, Iowa.—The lands of A and B adjoin for a distance of forty rods. B built all the partition fence on this division line and has kept it in repair for twenty-five or thirty years. Can B remove half of this fence and compel A to build half of it?

Answer.—He can—but the better way is to have the fence viewers view the premises, and determine the rights of both parties by a written decision, assigning to each the exact portion of the partition fence which he is to construct and keep in repair. Each party

is required by law to build and keep up half the fence, but the fence viewers are given power and authority to set it off, and determine which end each party shall keep up.

POWERS OF SCHOOL BOARD.

An Iowa Subscriber.—(1) Can the directors of a school district allow the schoolhouse to be used for religious purposes without the consent of the citizens of the district? (2) In case a schoolhouse is used for religious purposes, must the users give bond to the district and furnish their own firewood?

Answer.—(1) The law of Iowa provides that the voters at the annual school meeting may instruct the school board that the school building may or may not be used for meetings of public interest, and when they do so it is the duty of the board to follow such instruction. But where no such instructions are given by the voters the school board probably has a right to use its own judgment about the matter. (2) The law does not require the giving of a bond in such cases. The users of a schoolhouse should of course furnish the firewood necessary to use, while they occupy it. The board should see to this matter.

ADOPTED CHILD—ESTATE—MORTGAGE.

A Subscriber, Shelton, Neb.—A and B are husband and wife. They came to this state in the early seventies and homesteaded eighty acres of land and later bought thirty acres adjoining. They never had any children of their own, but in 1874 they took a boy eight years old, named C, to raise, but never adopted him. In 1882 they adopted an infant girl who is now my wife. In the articles of adoption it is mentioned that it is the desire of A and B that the girl should share in the inheritance of their estate. In 1887 A and B gave a mortgage on the thirty acres of land, and in 1900 A died leaving no will. His estate has never been probated. His widow B has lived on the farm ever since and now lives on it. About five years ago I bought the mortgage which was then past due. (1) Who is the lawful heir of A's estate? (2) How long will the mortgage remain good, provided B keeps the interest paid up annually?

Answer.—The widow B is entitled to occupy and use the homestead during her lifetime. Your wife is the sole heir to A's estate, and will be entitled to possession of the homestead occupied by B at her death. The estate of A should be probated to make the records right. (2) The mortgage will be good so long as B keeps the interest paid.

DRAINAGE UNDER RAILROAD—FENCES.

A Subscriber, Herndon, Iowa.—(1) A owns land on both sides of a railroad and wants to construct a tile drain across it. Can he compel the railroad company to bear the expense of the tiling across its right of way? (2) Is a railroad company required by law to construct a hog-tight fence along its right of way if the owner of adjoining land has hog-tight fences?

Answer.—(1) A cannot compel the railroad company to bear the expense of tiling across its right of way. If he cannot agree with the company as to the terms upon which he will cross its right of way he will have to file an application for the purpose with the township clerk, describing the place where the tile drain is to cross, and describing the proposed drain, and the matter will be heard and determined by the township trustees after due notice to the railroad company, and they will determine what compensation if any shall be paid to the railroad company, and they will also determine the cost of constructing said drain across the right of way, and the company has the privilege of constructing the same, at the ditch owner's expense, if it desires to do so, otherwise the owner may do so at his expense. (2) In such a case the land owner can compel the railroad company to construct a hog-tight fence along its right of way.

DRAINAGE OUTLET ACROSS ROAD.

An Iowa Subscriber.—(1) When a farmer tiles his land and has to cross the public road in order to get an outlet, who must bear the expense of putting in the tile across the roadway? (2) In case the farmer can get an outlet in a ditch at the roadway, without tiling across it, can he compel the trustees to put tile across the road to carry off the water? (3) In such a case, would the trustees have the option of either tiling across the road or digging an open ditch, by grading the road so as to carry the water down the hill to a culvert?

Answer.—(1) The farmer must bear the expense of tiling across the road. He cannot compel the road authorities to put in the tile. (2) He cannot.

(Continued on page 17.)

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OATS AND CLOVER ON DIRTY LAND.

To the Editor of The Homestead:

I saw an inquiry in your paper recently in regard to seeding down foul land to timothy and clover. Many years ago I bought forty acres of land adjoining my farm, that was very foul with cockleburrs. I planted to corn and the burs nearly took it in some places. The land was rich and I think the burs made sixty bushels per acre. The next spring I sowed to oats with timothy and clover. I shoveled up the ground with a cultivator and harrowed them in just the same as if there were no burs. After the land had been in meadow a few years the burs came up and it looked like there were millions of them. By harvest time the leaves were as large as the palm of my hand. I mowed the piece for hay, the burs making about a sixth of the bulk, and fed the hay to the sheep. They ate all the burs except the stems. I have not been troubled with burs in that meadow since. I would say to the subscriber, sow to oats as early as possible and when there is no danger from cold. Have the ground in fine order, and after putting in the oats, sow the timothy and clover and harrow once more. I have not seen a bur on my land for a good many years, and have planted that field in corn at different times, but have had no trouble with burs. Stanford Trueblood. Henry county, Iowa.

EFFECTS OF FEEDING MOLDY CORN.

To the Editor of The Homestead:

Considering the present value of a good horse, it is just as well to guard against possible dangers. Corn crops like that of the past season have proven disastrous to horses, the feeding of the moldy corn seeming to be productive of "blind staggers" or some disease of the brain.

While cattle and hogs are not, apparently, affected in the same manner, it is advised that the feeding of damaged corn be done only under careful, daily observation of the animals with a view to immediate detection of any harmful indications. Any food which is as greatly damaged as is a large proportion of the corn now on hand, is an imperfect food. Its use may produce conditions of the digestive organs that will be unfavorable to thrift and perfect health. Having the corn, it is of course necessary to make use of it. But good judgment would dictate the exercise of careful supervision.

Horses which become affected are usually beyond help, and die within a few days. The symptoms are a staggering gait, with more or less quivering of the muscles. In some cases the horse will stagger about in a circle, while at others it will stand and push against a wall or manger. The affected animal should be handled with care, as it is not infrequently the subject of a delirium and becomes irresponsible and uncontrollable. The disease is peculiar in that it may become apparent even a week or ten days after the damaged corn has been fed. While there are few cases in which treatment may avail, it is advised, where the affection is of mild form, to provide a laxative food, and give once each day for three or four days a one-dram dose of iodid of potash dissolved in water. C. C. C.

PLANT GOOD SEED.

To the Editor of The Homestead:

It pays to plant good seed. The yield will be better, the quality first class, and replanting will be avoided. Just the other day a man was showing me over a field that had brought no returns for his labor. I asked him the cause of the utter failure.

"Now, to be honest," he said. "It was my fault. That's a good piece of land, but I planted poor seed and it failed to come up. I replanted but it was too late for a crop. That's the whole cause of failure."

The planting of poor seed had cost this farmer into the hundreds of dollars. It would have paid him as it does any man to have purchased the best seed he could have found even at the highest price. Seed that has not been carefully selected and well cared for is seldom ever worth planting. A farmer told me the other day that he

put in a crop of cantaloupes from cull seed—that is seed from inferior melons—consequently they were late, many of the melons were not up to the standard, and the crop was only half profitable. Poor seed had lost him from \$50 to \$100 per acre. Seed from inferior stock is most certain to produce an inferior harvest, for like begets like in the vegetable as well as in the animal kingdom.

I also believe it pays to test the seed before planting, for sometimes in spite of all the care taken the seed will not germinate. I saw a good seed tester a few days ago. A seedsman had it in his store. It was an old incubator. He put the seed in sandy soil, kept it moistened and in the incubator until time for germination. He found the incubator worked to perfection as a seed tester. But if a person has no such incubator, a test may be made by planting seed in a box of moistened soil kept in a warm room. I have even sprouted seed between moistened layers of cotton batting. Subscriber.

HOW TO DETECT TUBERCULOSIS IN CATTLE.

To the Editor of The Homestead:

Perhaps no disease that cattle are subject to has been more discussed and given greater attention than tu-

berculosis. I candidly believe that it should be to the interest of every live stock owner on the face of this earth to get a better knowledge of tuberculosis and to get a better understanding of the tuberculin test and the simplicity of same and become better posted on a test that is perfectly harmless in itself.

The tuberculin test is a reliable and simple method of detecting tuberculosis in cattle but it must be applied with a reasonable amount of good, common sense and judgment. No animal in heat, sick, or in an abnormal condition, should be submitted to the tuberculin test, or in any way disturbed so as to prevent an accurate test and no decision as to whether cattle are tubercular or free from tuberculosis, should be decided upon without first obtaining accurate temperatures before and after the injection of tuberculin and a complete history of each animal which reacts to the tuberculin test.

After this information has been obtained the test sheets should be submitted to some person who is experienced in this work and readily understands the readings of temperatures. By this test it is within the power of every stock owner to know the exact condition of his herd and know as to whether they are free from tuberculosis or not. In applying the tuber-

culin test, it is important to obtain reliable tuberculin and use accurate thermometers, and no animal should be killed unless this test proves her to be a positive reactor. This is decided upon by the abnormal rise in temperature after the injection of tuberculin and should be left for an experienced person to decide.

Cattle in the last stages of tuberculosis do not always react to the tuberculin test but they are in such a condition that the ordinary person would readily know from her appearance that she was not a fit subject to be in the herd. Dr. David Roberts.

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There are many points to be considered in selecting a harvesting machine. If it is a binder you need, you should have a machine that is efficient, dependable and durable, and then the machine should meet your particular requirements—and to do all this it is necessary that you take sufficient time to properly consider the selection of the new machines.

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is warm or cold. This handsome machine, compact and substantial, with beautiful finish, cannot be beaten at any price. And you cannot get my new Bath-In-Oil principle on any other separator. Remember, that this is most important. It proves to you why I can afford to give you a 30 years' guarantee because I know that the parts cannot wear this out—get hot—clog—or clash and put the separator out of commission like others do where you have to be remembering to oil them all the time. The Galloway is the only separator into which you can pour oil at the top once a month from your oil jug, or can, and have it oil itself without danger of running dry or ruining it like others. This costs you nothing extra—is worth \$50.00 more than separators built the other way. Remember, that I am an actual manufacturer—not a supply house, catalog house, dealer or jobber. You get the lowest direct factory price from me every time. Write me today for my big separator catalog and let me quote you prices that will astonish you.

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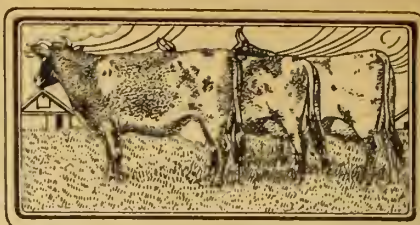


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All communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE IMPORTANCE OF THE TUBERCULIN TEST.

To the Editor of The Homestead:

If there were no state laws, no city ordinances, requiring the tuberculin testing of cattle, I contend that it is to the interest of every stock owner to apply the tuberculin test in a nice, clean, sensible manner for his own protection. By applying the test you determine whether or not you have tuberculosis in the herd, and the least that can be done would be to remove the tubercular cattle from the herd, or, if this were not convenient, move them to one end of the stable, or, better still, a partition might be placed between the healthy and infected ones. In this way you would protect the balance of your herd. As I have often noticed, where one tubercular

animal is found in a herd, usually the ones on either side of her become infected sooner than animals farther from her, showing that the disease is more apt to be spread by actual contact than otherwise.

Another very important method of preventing and overcoming tuberculosis in cattle is to have a thoroughly ventilated, sunlit, well-drained stable. Owing to the fact that the direct rays of the sun will destroy germs, it is a very good reason why at some hours of the day the sun should be permitted to shine on all parts of walls and floors of stables where cattle are housed. If this be impossible the sunlight should be substituted by a good, reliable germ destroyer, as it is unreasonable to expect a herd to thrive and do well where the germs of any disease are present.

Dr. David Roberts.

The Satisfactory Dairy Cow

By Fred H. Scribner, Wisconsin

THIS seems to be an age of special preparation for particular objects and professions, or businesses of life, and the person who starts out without special preparation in any profession, be it law, medicine, surgery, manufacturing or farming, finds himself handicapped in the strong competition of today. I am a firm believer that the same rule is especially applicable to the dairy cow, and anything that is going to interfere with her healthfulness or growth, is going to handicap her for her life work, be it as a breeder or producer. To this end the greatest precaution is necessary in the rearing of the heifer that nothing may dwarf her in size, for whatever dwarfs the growth will also dwarf and weaken the digestive organs as well. The organs of digestion are but muscles and are strengthened like any other muscles by careful use.

In the first place, one should know about when to expect the little fellow, as a little rest should be given the dam after her milking period. A little extra nourishment may be given at this time. A box stall should be provided and the cow permitted to occupy it a couple of days or so ahead of time, so that she may become accustomed to her new quarters before the little one arrives. This stall should be thoroughly cleaned and sprinkled with some disinfectant as slaked lime and plenty of clean bedding used. Our best horsemen today are paying a lot of attention to the disinfecting of the navel cord so that no troublesome germs may enter and poison the system. This is a wise precaution in the care of the calf to avoid troubles from this source. Avoid as far as possible any unusual conditions around the stable at this time, or anything that would tend to excite or make the cow nervous. Just what the effect might be is hard to say. Avoid drafts, as a sudden chill or nervous excitement has more effect upon the milk than most people imagine and is liable to cause indigestion.

We prefer to leave the calf with the cow for a couple of days, as this first milk is just what its system needs to get it into a good working condition. At the end of the second day we take upon ourselves the responsibility of the feeding of the little fellow and here comes the most critical period in the calf's life. Its future usefulness is largely determined by the care exercised at this time. There are, perhaps, four particular essentials which should then be provided. First, a dry clean bed. If a calf is permitted to lie on a wet bed it will take cold. Its digestion will be interfered with, as will be shown by its rough

coat, drooping ears and running nose. Second, the right amount of milk for a feed, and I dare venture this assertion, there is more harm done by overfeeding than any one thing. Just what the amount of milk for a feed is I am hardly able to say. This amount must be determined by the feeder and may be anywhere from three to six pounds, according to the individuality of the calf and the nature of the milk; but it is always safe to say, feed on the careful side. Whenever we get a calf off its feed it is hard to get it back and indigestion is weakening to the digestive organs. The amount of milk should not be determined by guess work, but by actual weighing or measuring, for I find it so easy to guess altogether too much. Third, the temperature of the milk should be carefully fixed. The normal temperature of milk as drawn is about 100 degrees, and this degree should be retained as far as possible. Any artificial heating of milk is always detrimental, as it makes it less digestible. Fourth, cleanliness of calf pails. I have known men to feed calves from a dirty swill pail and the calves certainly showed it. The calf pails at our farm are washed regularly each day and every well-regulated calf barn should contain a good scrubbing brush and washing powder. In the feeding of calves there is certainly a splendid opportunity to exercise patience and kindness. It is an old saying that you can catch more flies with molasses than with vinegar. So you can accomplish more by being kind and patient with the calf. If one is rough with the little ones, they are apt to grow up with that feeling of distrust and fear, and I am sure a cow never will do her best with this feeling towards her owner or keeper.

I notice that little calves very early in the stage of the game begin to nibble on something, possibly straw or hay. Then is the time to teach them to eat oats. Whole oats are best, as the chewing process tends to mix the saliva with the milk feed and aids digestion. They should be tied up while taking their milk feed to avoid the sucking habit and the oat feed should follow—whatever they will eat up clean will not be too much. At the end of six weeks, if the calf has done well and got started nicely on oats and clover hay, the milk may be changed over from whole to skim, but make the change gradual by taking out a little of the whole milk each day and substituting skim in its place. As it grows older and stronger the milk ration may be increased and can be profitably fed till the animal is a year old.

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the spring calf out on grass too soon, but skim milk, green grass, flies and hot weather make a mighty poor combination. It had better be kept up through the summer, not housed in a dark, gloomy place, but should have really the brightest and most healthful place in the barn where it can get plenty of sunshine and pure air and exercise. The fall calf usually makes the best growth at our place. If cared for well through the winter and has made good growth, it is then fitted to be put out on pasture. We ought to take every precaution for its healthfulness that it may grow a good, strong pair of lungs, a good, strong physical frame and be well developed all around. So many people say, "Oh, it's no great strain on a cow to make milk; all she has to do is to eat and chew her cud and make the milk." But I am sure it is as much a strain on her system as for the heavy horse to draw a heavy load. The making of milk is more or less a nerve process, and a nerve tire is the worst kind of a tire. If you don't believe it sit down and write an article a day for several days on different subjects and see if you don't feel as tired as if you had followed the plow.

A deep, capacious body is a desirable feature for a dairy cow, and this tendency should be encouraged in the calf—not by feeding too much concentrates, but by plenty of bulky feed, such as skim milk, oats, clover hay and wheat bran. These are all of the protein or muscular-making nature and not only tend to encourage capacity, but are the feeds best adapted to grow a strong physical frame. There is practiced today by many of our best breeders and dairymen a plan of not letting the heifer drop her first calf till about thirty months old. Many people say that is six months' time thrown away, but I know with heifers on our farm grown in this way they have grown to greater size, are better developed and are making some of our best producers. If we are keeping cows just for the sake of having them around, it matters little how they are brought up, but if we are keeping them for the profit side, it certainly matters what their early training has been, and I don't feel that I have described anything that is unreasonable, but simply good common sense methods that animals may be produced that are worth while.

CHEESE MAKING ON THE FARM.

To the Editor of The Homestead:

The manufacture of cheese on the farm is a very profitable business when once the necessary fixtures for the process are provided. In the brief confines of this article it will be practically impossible to dwell on the profitable side of the business.

There are two processes of manufacturing Cheddar cheese, the granular system, in which the curd is kept in the granular form from the time the whey is removed, until put to press. The other, the matting system, in which the curd is allowed to mat into a solid mass and is afterward milled to get it into the right condition for salting. In this will be discussed the process of the granular system. The milk used should be thoroughly sweet to the taste, and used as soon after being drawn as is possible. It is absolutely essential that no dirt be allowed to fall in, since it may contain organisms that will produce gas. Gas-producing organisms produce a gaseous curd which spoils the quality of the cheese.

After the milk is placed in the vat it is heated to 86 degrees F. If a vat regularly used for the purpose be not available, the vessel containing the milk can be placed in a second and larger vessel containing water heated to the necessary temperature.

During the process of heating the milk to 86 degrees and after having cut the curd, it is necessary to develop acid to the extent of .18 of 1 per cent. To develop this acid, which is lactic acid, rapidly enough not to delay the process of manufacture, it is necessary to add a starter. A starter is a small quantity of milk which has been inoculated with lactic acid organisms. These organisms have been allowed to develop by holding the milk at the proper temperature

for the best growth of these organisms.

The surest and best way to secure a pure culture of these organisms is to secure a manufactured culture which is always pure. This culture can be secured from several manufacturers of the product. The product comes in small and large bottles, of which the smaller is usually the most convenient.

Securing two quarts of milk in a glass jar, this can be heated to a temperature of 200 degrees F. for fifteen minutes. This sterilizes the milk sufficiently to insure the complete and thorough development of the lactic acid organisms. The contents of this bottle kept in the temperature of the room will curdle in twenty-four hours. Another lot of milk is heated and this is again inoculated with a portion of that made the day before. When the organisms of this latter inoculation have developed to the extent that the milk is again curdled, they can then be used for inoculating the milk to be used in making the cheese. Milk should never be allowed to develop too much, since there is too much loss of fat in the whey.

In adding the color the amount depends upon the intensity of the color desired in the cheese. Usually six ounces of color per 1,000 pounds of milk is sufficient.

The milk during this time should be stirred to prevent the cream from rising.

After having secured the desired temperature of 86 degrees the milk is ready to set or to add the rennet. Rennet is an extract made since early times from the stomach of calves. It contains two enzymes, one, rennin, having the property to coagulate milk, and pepsin, which afterwards digests the curd. Extract powders and tablets are manufactured on an extensive and commercial scale. Of these, for farm cheese making, the best form is the extract. This can be obtained from dealers in these supplies. The amount of rennet to be added greatly depends upon the strength of the extract used. Under most circumstances it is safe to use four ounces to every 1,000 pounds of milk. To determine this amount a glass graduate can be secured by inquiry at the drug store. These graduates enable the user to measure very readily different quantities of rennet as desired.

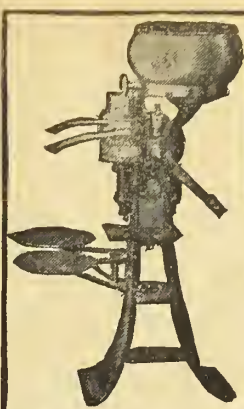
The rennet should be diluted with water before adding it to the milk, then poured into the vat evenly from one end to the other. The water must be warm to secure the best action of the rennet. The best temperature at which to add the water is 90 degrees, since the action of the heat, if above 100 degrees, will impair the strength of the rennet.

The milk is stirred slightly after the addition of the rennet and then left to set, and is disturbed no more until the curd is formed. A cloth is placed over the top of the vat to prevent the cooling off of the milk. The forming of the curd will require different lengths of time, depending upon the temperature of the room, amount of acid developed and strength and amount of rennet added.

The curd is ready to cut when it will break clean before the finger, that is to say, where no adhering portions of casein are found on the finger when forced through the curd. The curd is first split by the thumb and it will break as the finger is pushed along.

The curd is cut by horizontal and perpendicular knives. These are knives in which the blades run horizontally and perpendicularly. The curd is cut one way by one, and the other way by the other, using the horizontal knife first. This results in the cutting up of the curd into small cubes. This provides a good form in which to prepare the curd for the press.

The object of cutting the curd is also to allow the expulsion of the whey. For this reason, as soon as the cutting is completed, the curd should be stirred with the hands or a wire basket. The curd should now begin to be cooked. The temperature of the whey and curd in the vat is now raised about 1 degree every five minutes. It should not be heated too fast, since that tends to heat the outside of the curd and the whey on



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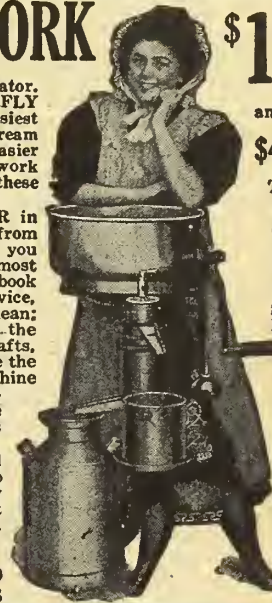
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the inside of the curd will be retained.

If the milk be overripe, the whey is expelled faster than in a normal working curd, and at a higher temperature. This is necessary, since it is essential that the curd be cooked before the required amount of acid be developed. As a usual case, however, it is not necessary to cook the curd above 98 degrees F.

One of the most important steps in the process is to know when a curd is cooked enough. There should be one-eighth of an inch acid on the curd when the whey is drawn. By this is meant that by taking a bunch of curd in the hand and touching it to a hot iron, the curd, upon being removed from the iron, will string out in a fine, film-like thread about one-eighth of an inch in length. When this results enough acid has been developed.

When the whey is drawn, the curd must not be salve and soft, but if a big double handful be squeezed up it will readily fall apart when released. Also, if a curd be placed between the teeth it will give a squeaky sound upon being bitten.

After the whey has been drawn the curd is ready for salting. Care should be taken to keep the curd from matting by constant stirring. The salt is now added to the extent of three pounds of salt to every 100 pounds of curd. When the salt is first added the curd will feel gritty to the touch. It must be stirred until the salt has been thoroughly dissolved and placed in solution. This fact is determined by smooth and non-gritty feeling of the curd.

The curd is now ready for the press. It is placed in hoops which contain bandages. These hoops are placed in the press and given a primary pressing. They are then taken out, the bandages readjusted, and the final pressing given.

The cheeses are then taken out of the press, set away in clean shelves in a cool temperature, and left to cure.

Augustus Forrest.

THE IDEAL DAIRY COW—THE GUERNSEY.

To the Editor of The Homestead:

The Guernsey is supposed to have originated from a cross between Normandy and Brittany cattle, both of which were large breeds. This accounts, to a large extent, for the good size of the Guernsey at the present time. Since 1789 there has been a law forbidding the taking of cattle to Guernsey Island under penalty of a heavy fine, the slaughter of the cattle and the forfeiture of the boat and tackle bringing them. Since that date the cattle of the island have been kept pure and especial attention has been given to improvement of the breed.

Generally nothing need be said about the form, fine color and rich yellow skin. This rich yellow color is one of the Guernsey's strong characteristics. It shows on the horns, the hoof, the skin and over the whole body, but most pronouncedly in the milk, cream and butter which take the lead in the best markets of the day.

Guernseys generally have ideal dispositions. They are quiet, not easily disturbed and will not fluctuate much in the flow of milk when strangers go into a herd. I have even known after a day's meeting of Guernsey admirers on a Guernsey farm, the cattle to give more than they did the previous day. These cattle have strong constitutions which is shown by the age to which they live and still produce a goodly return for the money invested in feed. Guernsey cows have been known to be profitable up to seventeen years of age, both as breeders and producers of butter fat. I have already mentioned the good size of the Guernsey, which we admire. Her average weight is about 1,000 pounds, although it is oftentimes more.

Prof. E. B. Voorhees, of the New York Experiment Station, has said: "The term 'Guernsey' as applied to a herd is synonymous as a rule with the term profit and one can hardly conceive management so poor as to result in loss when a Guernsey herd is a factor in the business." Another man said: "There are poor cows of every herd, but once a good Guernsey is installed as a family cow, she is

'in for life,' never for sale while a cow is wanted. Whether she gives you milk, cream, butter or cheese she stamps it naturally with a yellow brand distinctly her own." In fact any strong argument in favor of the Guernsey cow lies in the fact that she produces her milk and butter fat so cheaply. Now this statement is not without actual proof. At a competitive test held at the Pan American exposition, there were ten breeds competing and the Guernsey was awarded first prize for net profit in production of fat and churned butter. She made butter for the least cost per pound and returned the largest profit for every dollar's worth of feed fed. This last fact has caused many a man to breed Guernseys. The Guernsey butter scored highest particularly as to flavor and color. At a nine months' test made at the New Jersey Experiment Station, the Guernsey won nearly ten dollars more profit per cow during the test, five breeds competing. At the New York Experiment Station a ten months' test was made six breeds competing. Here the breed won about five dollars and forty cents more profit per cow.

The Guernsey is a persistent milker which is well brought out in the advanced register records that have been made. I think we can say that as far as easy milking is concerned, they are unsurpassed by any of the dairy breeds. As a rule their teats are of good size which as all know is quite an item in the lifetime of a dairy cow. Suppose she lives to be seventeen years old and averages in milk ten and one-half months per year. This would necessitate your milking her about 9,400 times and I dare say before the end of the seventeen years you would often be thankful you had an easy cow to milk.

No other breed can show so many official yearly records of butter fat. There are now 810 yearly records recorded with an average butter fat record of 400 pounds of fat with an average test of 5.07 per cent, which I consider a very creditable showing when you take into consideration that they are all ages from two years old up. All breeders who have had any experience answering inquiries for cattle can testify to the great value the advanced register has been in creating an interest in the breed.

It might not be out of place to say something about the Guernsey grade. The Guernsey sires have been found to be very beneficial in grading up dairy herds to improve their dairy qualities. There are many records of grades that show their worth as dairy cows. Here are a few: Elizabeth A., 571 pounds of butter; Maltilda, 544½; Pet, 560; Cora, 526; Miss Bibbs, 508; Benlah, 507; Mary (at two and one-half years of age), 490; Tennie 490; Lou, 488; Mag, 478; Lottie D., 400.

M. L. Welles.

PRINCIPLES OF VENTILATION.

In the old days when the farm house was heated by means of the open fireplace and cattle were stabled on the leeseide of a straw stack, the question of ventilation was no question at all. But in this day of warmly-built and often overcrowded stables and dwelling houses, the problem of how to secure proper ventilation is one that must be carefully considered.

The animal body may sustain life for three weeks without solid food or three days without liquid food, but it could not endure three minutes without oxygen-laden air. The human body requires daily about four times as much water as solid food and nearly six times as much air by actual weight as it does of water. Hence the importance of an abundant supply of pure air.

This necessity becomes more evident when we take into account that every pound of coal burned consumes eleven pounds of air and that in the digestion of one pound of hay or other solid food in the body of an animal five pounds of air are consumed. Oxygen is just as much a food as the bread we eat, or as much a fuel as the coal burned in the stove.

A cubic foot of air entering the lungs in its pure state, is ejected with ninety-two cubic inches less of air and seventy cubic inches more of carbonic acid gas. This carbonic acid

gas is heavier than air and hence settles to the floor. Reason then must tell us that a system of ventilation in order to be effective must have its outlet at the floor rather than at the ceiling. Another thing to be borne in mind is that fresh air cannot be forced into a room unless an exit for foul air is provided and equally foul air cannot be drawn from a room unless a suitable inlet for fresh air exists.

In placing a system of ventilation in a barn a few essentials need to be observed. The outlet should be air tight. It is best built of galvanized iron. The wall of the stable, too, should be tight and the ceiling warm. Cold air should enter at the ceiling and should be taken in at a point lower than that at which it enters the stable. Intakes should be at all sides and their combined area should equal that of the outlet.

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OUR LEGAL DEPARTMENT.

(Continued from page 12.)

(3) There is no way by which the farmer can compel the trustees to take care of his drainage water by either constructing a tile across the road, or grading so as to carry off his water. If he can discharge the water in a ditch running along the side of the road, in such a way that it will not injure the road, he has a right to do it, but not otherwise.

STRAW PART OF CROP.

A Subscriber, Havelock, Iowa.—I rented my farm to a tenant who was to pay cash rent for the pasture land and the hay land and give me two-fifths of all crops raised on the other part of the farm. The cash part of the rent has been settled, but the tenant has sold three-fifths of the straw and has fed the remainder of it to his stock. As I was to have two-fifths of all that was raised I think I am entitled to two-fifths of the straw, but the tenant thinks otherwise. His time expired on the 1st of March. Can I keep corn enough out of his share to pay for two-fifths of the straw?

Answer.—You are entitled to two-fifths of the straw under your rental contract. By law, you have a lien on all crops raised on the premises, to secure the delivery of your rent or share, and you can enforce this lien by attachment of the tenant's share of corn to pay you for the share of straw belonging to you, which the tenant used or disposed of.

ASSESSMENT OF YEARLING STEERS.

Mr. C. L. Kerr, Manilla, Iowa.—We are feeding a lot of yearling steers. Previous to the heavy snows this winter they were running on corn stalks and pasture. When the snows came and buried their feed, we were compelled to give them hay and a little corn to keep them from losing flesh. During the first week in January these steers were changed to the feed lot and their feed has been gradually increased to the present time. We expect to have them ready for the June or July market. Would these steers be entered on the assessor's list as yearling steers or as cattle in feeding?

Answer.—If the steers were one year old or over on the first day of January, 1910, they should be entered on the assessment roll as "steers one year old." Swine and sheep under six months of age, and all other domestic animals under one year of age on the first day of January, are exempt from taxation for that year, and need not be entered on the assessment roll.

SALE OF UNSOUND ANIMAL.

A Subscriber, Charleston, Ill.—On December 8, 1909, I bought a mare at public sale. She was represented to me to be straight and sound except a little knot on one leg. She has a running sore on the lower jaw about the size of a lead pencil. It discharges pus part of the time which is very offensive, and I have learned that the jaw has been in that condition for about a year and was caused by a kick. Is the party who sold her to me responsible for damages?

Answer.—The seller is responsible for damages if the representation that the mare was sound constituted a part of the contract of sale and purchase.

NEW FENCE LAW.

Mr. W. H. Pherrin, Springville, Iowa.—In The Homestead of February 10th, last, you say in answer to the question of a subscriber at Norwalk, Iowa, that the old law allowing a person who had added material to a partition fence to make it hog tight, to remove the added material whenever he chose to do so, was repealed by the last general assembly, and that the new law makes no provision for removing any portion of a partition fence. In a book defining the powers and duties of township officers, with amendments of the thirty-third general assembly, on page 48, is a decision which says: "A party desiring to have a partition fence made tight as against swine and sheep, has the right to do so at his own expense, and may, whenever he chooses, restore the fence to the condition of a lawful fence." Panther vs. Trauman. This decision also follows section 2367 of the code. Why was this decision sent to township officers if that part of the section to which it was applicable was repealed?

Answer.—We do not know why said decision was sent to township officers. The decision referred to was made by the Supreme Court of Iowa on October 7, 1893, in the case of Ferdinand Panther vs. Fred Trauman. Chief Justice Robinson rendered the decision. The case is reported on page 101 in Vol. 89, Iowa Supreme Court Reports, when some of the legislators who passed the new fence law repealing section 2367 of the code, were mere children. If our correspondent will turn to page 135 of the session laws of 1909, he will be convinced that the new law makes no provision for removing added material. The answer to the Norwalk subscriber

is correct. The person who sent township officers the book mentioned is not up to date on the subject of fences.

HOMESTEAD—FULL AGE.

A Nebraska Subscriber.—(1) Can a girl legally take a homestead in Nebraska or elsewhere? (2) Can a girl in Nebraska collect her own wages after she is eighteen years old?

Answer.—(1) A girl who is twenty-one years old, and a citizen of the United States, can take a homestead in Nebraska or any where else where there is government land subject to homestead entry. (2) By the laws of Nebraska, a girl becomes of full age at eighteen years, and is then free to make her own living, buy and sell property, sue and be sued, make contracts and collect her own wages.

HOMESTEAD—HUSBAND AND WIFE.

A Wyoming Subscriber.—In June, 1908, I filed on a homestead of 160 acres in Laramie county, Wyoming. In December, 1908, I built a small house on it and fenced the land on two sides. In March, 1909, I married a lady who was living on an adjoining homestead of 160 acres, which she had entered. As we could not hold both claims we decided to live on her claim. We have to live on it two years more before she can prove up. (1) Have I lost my right to take another homestead? (2) I have never lived on my claim, but have pastured it to some extent. What steps can I take to secure a homestead claim in my own name?

Answer.—(1) You have not lost your homestead right, but you cannot enter a homestead until your wife fully complies with the law concerning her homestead and proves up and gets her final receipt from the receiver of the land office. After she obtains title to her homestead you can then take up a homestead in your own name. This answers both questions.

FLOODING ANOTHER'S LAND.

A Subscriber, Geneseo, Ill.—In the state of North Dakota A and B own adjoining farms. A sank an artesian well on his farm and the flow from it runs over B's land where there is no natural waterway and spoils part of it. Can B compel A to take care of such flow of water or hold him liable for damages?

Answer.—A has no right to permit the flow of his artesian well to run over B's land to the injury of it, or the crops upon it. A must take care of such flow of water, and if he fails to do so, B can obtain an injunction compelling him to do so, and also recover damages for the injury already done.

DRAINAGE IN CITY.

A Subscriber, Woodstock, Ill.—I own two city lots, and there is an open ditch running through them. Can I compel the city to put in tile drainage, or have I the right to do so myself?

Answer.—You cannot compel the city to put in tile drainage. You have a right to do it yourself, unless there be some city ordinance which would prevent it. If the ditch be one controlled by the city authorities, you would have to have their permission to change it into a tile drain, or otherwise interfere with it.

CHANGE OF VENUE—FEES.

A Subscriber, Coggon, Iowa.—When a change of venue is demanded in a case before a justice of the peace in Iowa, can the justice require all costs made before him to be paid before he submits the papers to another justice?

Answer.—A justice of the peace has a right to demand all fees in advance except as to the entering of orders, judgments and writs to be executed, but he may waive this right by neglecting to demand fees at the time his services are rendered. If he neglects to demand his fees in advance up to the time a change of venue is asked for and allows the change of venue, and the party asking for a change pays the fees for a transcript of the proceedings, the justice must then transmit all the original papers in the case and the transcript to the next nearest justice in the township.

DRAINAGE OUTLET ON ADJOINING LAND.

Mr. R. H. Gardner, La Porte City, Iowa.—Is there any law on the statute books of Iowa that gives a land owner the right to go upon his neighbor's adjoining land and construct a tile drain as an outlet for his own drain, without the consent of such neighbor?

Answer.—The law of Iowa upon this subject was enacted by the 33d general assembly and approved April 16, 1909, and provides substantially as follows: When a land owner desires to construct a tile drain across the land of his neighbor to obtain a better outlet and cannot agree with his neighbor concerning the same, he must file with the township clerk an applica-

tion, setting forth a description of the land he desires to cross, and the starting point, route, terminus, character, size and depth of the proposed drain. The clerk then fixes a time and place for hearing the application before the township trustees, and causes notice thereof to be served on the neighbor not less than ten days before such hearing. The neighbor may then file his claim for compensation or damages at least two days before the hearing, or such claim will be considered as waived. At the hearing the trustees determine the merits of such application, all objections filed thereto, and also all claims for damages, deciding how much damages shall be paid the neighbor, how connections shall be made, and any other question arising in connection therewith, and reduce their findings, decision and determination to writing, to be filed with the township clerk, and recorded, and also recorded in the office of the county recorder, and the same shall be final unless appealed from.

If there is any place that a row of willows is a nuisance it is along the road in wet places. It prevents tiling on account of the roots while the trees shade the ground and prevent drying.

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unless you have D. & S. lightning rods on your buildings. You cannot afford to take such chances. You need this protection for your home—for your property. Like other lines of business and professions, there is a difference between the real, the genuine, and the imitation or the cheap kind. You cannot afford to accept dangerous substitutes when such important principles are involved. You cannot afford to keep that good horse, or that good cow, or any other kind of live stock, in unprotected buildings—much less the home, where the loved ones abide. Think of it, man. You will not need to think long.

This is proof sufficient: 111 fire insurance companies report losses showing 2,960 fires in one year; 2,165 were caused by lightning, only 795 from other sources combined. Think of it, 3 to 1. That is what we save you from.

This ought to be sufficient warning to you and important enough to warrant quick action. You need lightning rod protection—you need the best. The best is the D. & S. System. D. & S. means Dodd & Struthers. We are pioneer lightning rod manufacturers. Our Woven Copper Cable, invented and exclusively controlled by us, has given the lightning rod business a respectable place among merchants and professional men everywhere, because it is right—right in quality—nothing but pure copper wire used; right in method of construction, it furnishes one of the best and most lasting conductors in lightning rod construction.

Our great book written by Prof. Dodd, entitled "The Laws and Nature of Lightning," is yours for the asking. Write for it now. Spring storms are coming. Do not delay. Such delays are dangerous.

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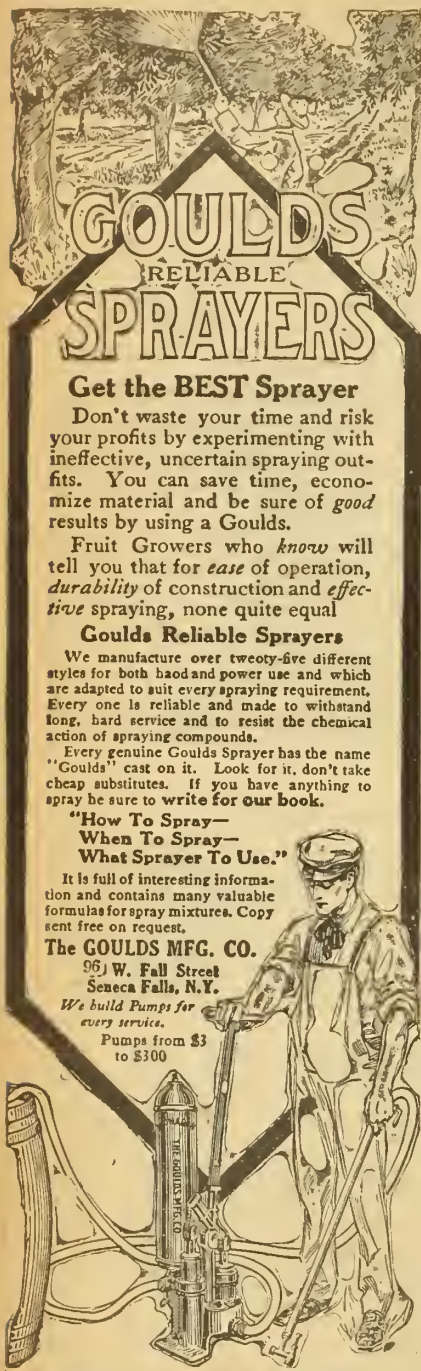
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We manufacture over twenty-five different styles for both hand and power use and which are adapted to suit every spraying requirement. Every one is reliable and made to withstand long, hard service and to resist the chemical action of spraying compounds.

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We build Pumps for every service.
Pumps from \$3 to \$300

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TWO HUNDRED Gladiolus Bulblets

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Full cultural directions with every lot. All the bulbs and some of the bulblets will bloom this year, all next year. Order at once before they are gone. They will grow and bloom anywhere, in any soil and for any one.

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BIG SEED BOOK FREE

BEST NEW CROP GROWN SEEDS IN THE WORLD AT FARMER PRICES. In addition we give a whole lot of extra seeds with every order. OUR BIG ILLUSTRATED CATALOGUE OF FARM AND GARDEN SEEDS IS NOW READY. It is FREE to you. A postal card will bring it to your door. Write for it today; also send the address of your neighbors who buy seeds. Address,

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NURSERY SNAPS

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20 Budded Peach Trees \$1.00, 40 Concord Grape Vines \$1.00, 8 Budded Cherry Trees \$1.00. They are strong, healthy, ready to grow. Catalogue and 25c due bill free. Write now for choice selections.

Fairbury Nurseries Box 5 Fairbury, Neb.

Horticulture

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

INSECT TRAPS.

The fact that spraying fruit trees to overcome insect pests is the general method of warfare should not make us forget humbler methods. There are hundreds of people owning but a few trees who find it extremely difficult to apply spraying methods to their circumstances. Such may find great help in controlling insect enemies by the old plan of band traps.

This involves no expense whatever, except the time used. Proceed as follows: Take a strip of burlap twelve inches or more wide, and cut it in lengths long enough to go around the trees on which it is to be used. Take one of these pieces and fold it once the long way. Then fold a lap of one inch on the edge of this double piece. Put this around the tree trunk a couple of feet from the ground, the doubled edge up and fasten securely with a big-headed tack.

This, rightly put on, makes a trap refuge very tight at the top and loose at the bottom. Worms or bugs going up or down the tree, crawl under the loose folds of the lower edge. They like the shelter from the sun and rain. Take these off every ten days, and you will find a surprising catch of worms and beetles.

They may be destroyed by dipping the bands in boiling water, and then replace as soon as the bands cool. This will catch great numbers of the curculio beetle, and lava of the codling moth, two of the worst pests we have to deal with. It is a common experience to find a dozen victims every time a band is removed. Even where spraying is practiced in large orchards much more should the method be employed in cases where the obstacles to spraying seem insurmountable. The time to put on bands is early in spring before trees bloom.

ORCHARD CULTIVATION.

The plan of cultivating orchards that receives sanction of the best experience of the day, and that also accords best with modern theories of soil physics and chemistry, is about as follows: The ground is plowed deeply and thoroughly as early in spring as possible without damage to the texture of the soil; that is, as soon as it is thoroughly dry. The amount of sand in the soil will largely determine this point, which, since it is all a matter of local experience and of judgment, cannot be more accurately specified in print.

When we speak of deep plowing in an orchard after the planting of the trees we call up another common objection to this system of cultivation. It is sometimes said that deep plowing is impossible or impracticable in an orchard because it cuts off the roots of the trees. It is true that if one attempts to send down the plow to a depth of twelve or even eight inches in an orchard which has never been cultivated, he will meet with some difficulties in the shape of large roots. The cutting of these roots will entail a large amount of hard work and may weaken the trees. On the other hand, it may hurt the trees. It is altogether unsafe to assume that any real damage is done even in cases where large roots are broken in plowing.

But the objection fades away utterly in the case of orchards which are deeply plowed from the beginning. Under this treatment large roots are never formed near the surface. They all grow below the reach of the customary plowing. All possible damage of this sort is thereby prevented, and the tree is better for being deep rooted.

After the deep, early spring plowing the ground should be frequently and thoroughly stirred on the surface. Frequent surface cultivation saves moisture and keeps the weeds from getting a start. This scarification of

the surface should be repeated once a week, or, in case of insufficient rainfall, twice a week. It is a good plan also to break up the surface after every rain or heavy shower just as soon as the cultivator or the harrow can be safely put on the ground.

If no other crops are to be grown in the spaces between the tree, this sort of cultivation can be kept up till about midsummer. Cultivation in general should slacken and stop simultaneously as the growth of the trees slackens and stops. When cultivation ends for the summer the ground should be sown to some cover crop, as explained elsewhere.

In many orchards, especially in those which are not double planted, it is feasible to grow some catch crop between the rows of young trees, at least during the first few years. Some men think it is never best thus to crop a young orchard, but with proper care and liberal feeding, there can be no damage to the trees from the presence of catch crops of the proper sort.—(From "The American Apple Orchard.")

THE BORDEAUX MIXTURE.

According to Prof. F. A. Waugh, the bordeaux mixture is our most important fungicide. It has superseded practically every other fungicide yet introduced.

The changes in the formula for bordeaux mixture have been very few and of a minor nature, showing that it is as nearly perfect as such things can be. The mixture is made in various strengths for various purposes, but probably the best formula for spraying apple trees is the standard mixture, as follows: Four pounds copper sulphate (blue vitriol), four pounds lime, fifty gallons water.

To make up the mixture first dissolve the copper sulphate. This process can be very much hastened by using hot water. The usual method, however, is to put the copper sulphate into a gunny sack and hang it on a fork handle in the top of a barrel or tub so it will just barely be immersed in the water. As fast as it dissolves it sinks toward the bottom of the vessel. If only 50 gallons (say one barrel) of mixture are to be made it is well to dissolve the copper sulphate in 25 gallons of water.

The next step is to slake the lime. This should be done by adding a little water at a time, just enough to keep the lime slaking, but not enough to quench the heat generated in the process. When the slaking is finished more water can be added, making the lime into a thick cream. It can then be diluted so as to make 25 gallons or half a barrel of solution, and, if necessary, it should be strained. With good lime, however, the straining can be omitted.

The two solutions are now ready—the copper sulphate in one tub or barrel and the lime in another. To make the mixture dip or pour the copper sulphate into the lime, or else pour both solutions at once into a third barrel. In either case the mixture must be stirred vigorously during the pouring. Under no circumstances should the process be reversed and the lime poured into the copper sulphate. This little detail, which is of no obvious importance whatever, really makes the difference between a good and a very bad mixture which may ruin the foliage on every tree it touches.

When a big campaign of spraying is on and much bordeaux has to be made, the best plan is to make up stock solutions. To do this dissolve say 40 pounds of copper sulphate in 40 gallons of hot water, and set it aside for use. Then in a suitable box slake 40 pounds of lime, and add enough water to make 40 gallons of this solution also. With care these solutions will keep for some time; if they stand for several weeks they become considerably concentrated through evaporation of the water. To use these stock solutions in making

\$500 in Gold For a Good Corn Name



Speak up now! Name our new Corn! Get \$500 in Gold! Just get a sample packet of our Nameless Cornor, name it without getting a packet.

This paper will publish the name of the new corn when selected by the judges, and the winner of the \$500. Will it be your name or somebody else's name because you did not try?

Awaken to this remarkable offer! You have a few days yet in which to act. Enter now the Big Contest! No Nameless Corn for sale this season! Too scarce. Send 4c. if you want a sample.

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Get in touch with Salzer. Do not order a single pound of Farm or Garden Seed till you have heard from Salzer; till you have seen his stupendous 1910 Offering of Reliable, Guaranteed, Pedigreed Seed. He will save you money and you will be better contented to know you have planted the seeds that grow biggest crops. Salzer's Grand 1910 Seed, Plant and Tool Catalog is free. On pages 101-102 of catalog will be found full particulars regarding Salzer's famous White Bonanza Oats. Better send for a copy and see what he has to say about it. Send name for Nameless Corn and get in on the \$500 prize offer. Should another person offer same (acceptable) name as you offer, the prize will be equally divided. Contest closes May 10, 1910.

JOHN A. SALZER SEED COMPANY
124 S. 8th St., LaCrosse, Wis.

Test Your Corn

Don't risk a crop failure by taking the word of some one else as to the reliability of your seed corn. Test your own corn—every ear of it—and know, before the planting is begun, that the seed you use will grow.

Geo. H. Lee, of Omaha, has perfected a corn tester that can be used anywhere any other corn tester is used, and besides, can be used in his incubator and the testing done at the same time a hatch of eggs is being conducted. It is made in the following sizes and prices: 200-ear, \$3.50; 500-ear, \$5.00.

Write for descriptive circulars. You'll save the cost of several testers in the knowledge gained from your first testing. Write today to—

GEO. H. LEE CO., OMAHA, NEB.

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TESTED—GUARANTEED—HIGH GERMINATION

Why plant doubtful seed corn when you can get the best that grows, at a reasonable price. PURE BRED, practical varieties—yields big crops and make good money. We have it. We know it so well that we fully GUARANTEE IT. Test it any way you want and if not fully satisfactory, return at our expense. Fair enough, isn't it? Better buy seed corn of high germination, be sure of your seed and take no chances on doubtful seed.

Wouldn't you like to have some samples of seed corn, suitable for your location and our fine illustrated catalog, telling about our guaranteed seed. All free—write today. A. A. BERRY SEED CO., Box 603 CLARINDA, IOWA.

Spray Your Fruit Trees AND VINES

Destroy the fungi and worms, and thus be sure of large yields of perfect fruit.

Excelsior Spraying Outfits and Prepared Mixtures are used in large orchards and highly endorsed by successful growers. Write for our money-saving catalog, which also contains a full treatise on spraying Fruit and Vegetable crops.

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CLOVER New Crop Iowa Grown Recleaned TESTED

and inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc., at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free. IOWA SEED COMPANY, Dept. D1 DES MOINES, IOWA.

EVERGREENS
200 Norway Spruce, 3 to 6 in., \$1; 100 Arbor Vitae, 3 to 6 in., \$1. Prepaid by mail. Many other \$1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price List free. HARTVARD NURSERY, Box W, HARTVARD, ILL.

up a barrel of bordeaux for spraying take 4 gallons of the copper sulphate solution and dilute it to approximately 25 gallons. Then take four gallons of the lime solution and dilute it in another barrel, making approximately 25 gallons. Then pour the copper sulphate solution into the lime solution as before directed, stirring thoroughly.

No matter how the bordeaux mixture is made it should be strained before using. To do this put it through cheesecloth as it goes into the spray tank.

In making up large quantities of bordeaux a great amount of labor can be saved by a convenient arrangement of barrels or tanks. The stock solutions are made up in tubs, barrels or tanks on the upper platform. They are also ladled out and diluted on this upper stage. They are then allowed to run together into a trough conducting them to a barrel on the lower platform. They mix as they run together into the trough and this mixture should be vigorously stirred in the barrel during the operation. The mixture thus completed is drawn off by gravity into the spray tank, passing through the cheesecloth strainer on its way.

This staging must be made high enough so that the completed mixture will run down into the mounted spray tank; and there must be arranged a convenient water supply sending water easily up to the top platform. This staging can be used in making and handling other sprays, though it is especially adapted to the manufacture of bordeaux.

DESTROYING THE CUCUMBER BEETLE.

The ravages of the striped cucumber beetle possibly do more to cut down the supply of pickles than all other insects combined. The plants no more than show themselves above ground in many cases when they are pounced on by these pests and the leaves literally riddled to pieces. The remedy for these beetles is given by F. H. Chittenden in his book on vegetable insects. On the matter of destroying cucumber beetles this author says: How to control this cucumber beetle is one of the hardest propositions to solve. Poisons will destroy the beetles when they occur in moderate numbers, but are not entirely efficacious when they are most abundant, hence recourse must be had to preventives and repellants, and to farm practice.

To prevent injury to young plants coverings are used. A cheap frame may be made by cutting a barrel hoop in two so as to form two semicircles, which are placed at right angles to each other, and the lower ends inserted in the ground with the curve uppermost. This is then covered with gauze or similar material, held in place so to prevent the beetles working through or under it. Where no covering is used it is advisable to start plants under glass, or to plant the earliest varieties and set them out as soon as possible so as to have the plant well established before the appearance of the beetles. The setting out of late varieties should be postponed until after the first appearing beetles have laid their eggs and dispersed. A certain degree of relief follows the planting of an excess of seed so as to distribute attack. After the first danger is passed the hills are thinned out to the desired number.

Much injury from this and other cucurbit pests would be prevented by more attention to clean methods of cultivation. As soon as a crop is harvested the vines should be covered with straw or other inflammable material and burned, and certain plants should be left here and there throughout the fields, so that such insects as may not be reached by the fire will concentrate on them where they can be destroyed with strong kerosene emulsion or Paris green. As traps for the last generation it would be wise to plant late or to use later varieties. Some exemption may be attained by growing beans with cucumbers in alternate rows. The beans are planted before the cucumbers and the beetles congregate on the beans, and, having an abundance of food, do not attack the young cucurbits.

In some sections "driving" is practiced. Air-slacked lime is dusted

over the plants with the wind and the beetles fly before it to the next patch where similar methods have to be employed. Another remedy is to dust the majority of plants with sifted ashes, road dust or plaster, and cover those which are undusted with an arsenical, in the proportion of one-fourth of a pound to about forty gallons of water. The beetles are thus driven to concentrate on the clean plants, where they are killed by the poison.

Refuse tobacco dust sprinkled on the hills when the soil is moist acts as a repellant and as a fertilizer and mulch for the plant. Applications must be renewed when rainfall necessitates.

Pyrethrum and other insecticides dusted on the plants are useful, but expensive. Paris green and other arsenicals applied dry as for potato beetles are valuable, but all poisons must be renewed frequently and are not generally to be relied upon when the beetles are exceedingly numerous. In case Bordeaux mixture is used as a protection against fungous diseases, Paris green should be added, as it necessitates little additional trouble and the mixture will prove more effective than either when used alone. A considerable degree of exemption from injury accrues from the stimulation of a crop by heavy manuring, or the use of mineral fertilizers and frequent cultivation.

We have had considerable experience with these beetles and have practically settled down to the plan of dusting with wood ashes. It is not too early to put a coating of ashes over the surface of the cucumber hills before the plants appear above ground, because in shoving through the crust the little plants are given a light dusting and this is sometimes enough to prevent their destruction before there is time to get them covered by hand.

CUTTING SEED POTATOES.

There is no question more common at this season than the one about cutting seed potatoes. The plan followed by many is to cut the tuber lengthwise into four equal pieces. Others vary this by cutting off and throwing away the seed end. Again there are farmers who plant whole tubers, and claim to grow good crops. The fact is that this crop is so easily grown that good results are secured by almost any method of seeding. Isolated cases of good crops prove nothing, for variations of soil and weather conditions have a potent influence upon results.

The scientific rule to observe in

growing any crop is that each seed must have room, in order to secure a profitable and perfect development. And that has become the rule of practice with all successful farmers. Now consider the eyes in the potato as a bunch of seeds. Each eye is a seed. The tuber is like a head of wheat. In the case of the wheat we separate the seeds and sow them thinly. It is logical to give the same treatment in case of the potato.

Cut the tuber one eye to a piece and you are meeting the condition which nature exacts in all culture—give the seed room. It is not merely to cut out the eye, but cut the whole tuber so that each eye shall have about the same amount of "hinterland." In planting six inches space in

GARDEN SEEDS FREE!

FIVE PACKETS FOR TRIAL

We have arranged to give to each new customer absolutely free five regular sized packets of our Superior Guaranteed Garden Seed, your selection. Write today for 25c certificate, which entitles you to these free packets and our big 100-page illustrated catalog, so you may make your selection and become acquainted with our seeds. If you give our seeds a trial we are sure you will become one of our pleased customers. Write today for our big 1910 100-page illustrated seed catalog. Address

A. A. BERRYSEED CO., Box 203 Clarinda, Ia.

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Everything in the Nursery Line.

Beautifully Illustrated Catalogue and Price List Sent FREE

Special: 45 Concord Grapes \$1.

13 Peach trees \$1.00. Write us TO-DAY.

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APPLES, PEACHES, CHERRIES, PLANTS, SHRUBS

Why not have a little fruit of your own; and your front yard decorated with a few hardy, ornamental shrubs and trees? Read every word of this generous offer:

- 2 Duchess apple, 2 years old.
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- 5 Salway peaches, 2 years old.
- 2 Montmorency cherries, 2 years old.
- 25 Bubach strawberry plant.
- 25 German Iris—fine.
- 1 Snowball.
- 1 Spirea.
- 5 Norway poplars, 3 to 4 feet.
- 5 Concord grapes.

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To all points in Iowa, Illinois, Minnesota, Nebraska, Missouri, Kansas, So. Dakota and Wisconsin.

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Ask for Bargain Bulletin

Think how much more beautiful your home would be with this collection. All the above stock guaranteed absolutely true to name.

Send us your order in 15 days and we will include with the above: One Dorothy Perkins Rose, one Baltimore Belle Rose, one Hydrangea and one Honeysuckle. Address

IOWA NURSERY COMPANY, Desk 3, DES MOINES, IA.

Ratekin's New Majestic SEED POTATOES

Earliest and best in the world; Early Ohio, Early Rose and Early Six Weeks, the standard of all best varieties. Also Carmon No. 3, Rural New Yorker No. 2, and other best sorts. All our seed is Red River grown and the finest stock to be found anywhere. Write for Big Illustrated Catalog of all farm, field, grass and garden seeds. It's FREE for the asking. Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

SEED CORN

seed flax, garden seeds, etc. Catalog free.

We are the exclusive agents for H. J. Goddard's "SILVER KING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern-grown seed corn. (Flowers, timothy, alsike, mixed timothy and alsike, "primrose" wilt-proof.

THE ADAMS SEED CO., Box 1, Decorah, Iowa.

153 Bushels of Corn Raised on 1 Acre

This Proves Conclusively that Seed Testing Pays

John Sunberg, President of Iowa Corn Growers' Association, has established a new record by raising 153 bushels of corn on one acre.

It's a great achievement. It demonstrates what a little extra care will do.

It proves conclusively that the majority of corn growers—those who are indifferent—those who rely on their judgment in selecting seed corn and only get 30 to 50 bushels of corn per acre are losing more than they make—two-thirds of their time and labor are being wasted.

Even if you can't equal Mr. Sunberg's record—you can increase your corn yield 20 to 40 bushels per acre.

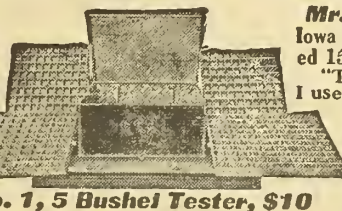
Hundreds of farmers are doing it. They test their seed corn with

Holden's Ideal Tester

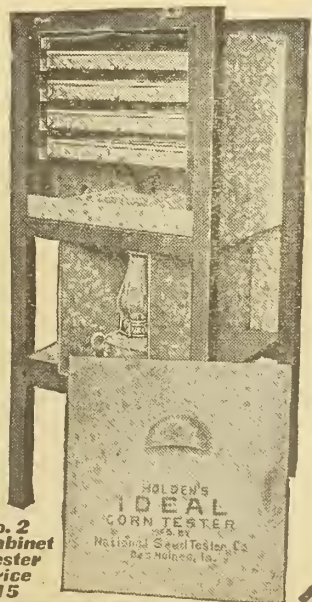
It's the safest and surest because water develops the germinating power of seed corn quicker and more accurately than anything else. By this method alone the strong hard kernels have a chance to absorb the water as quick as the weak starchy kernels—and under these conditions the strong kernels sprout quicker than the weak. By other methods the result is just the opposite. The weak starchy kernels absorb moisture quickest, consequently sprout first, with the result that the kernels from weak ears are planted. The strongest ones being slower in sprouting are discarded as unfit to plant. To be safe—do as the biggest corn growers do—test with HOLDEN'S IDEAL TESTER.

All you have to do is to fill the tester. Take six kernels from an ear and put in first little cup. Mark ear No. 1. Take six kernels from the second ear, put in cup No. 2 and so on until the four trays are full. Put the four trays in the germination box—one on top of another and fill the box with warm water. Place in warm room for 24 hours—then draw off water by pulling plug in bottom of box—replace cover and let stand for three days. On opening, the seed from good ears fit for planting will have sprouted. Save those ears and discard the rest. Seed from poor ears will show very weak sprouts and practically no roots. These are absolutely worthless. Get a tester today.

National Seed Corn Tester Co.,
1115 Walnut St., Des Moines, Iowa.



No. 1, 5 Bushel Tester, \$10



No. 2 Cabinet Tester Price \$15

Mr. John Sunberg, President of Iowa Corn Growers Association, who raised 153 bushels of corn on an acre, says:

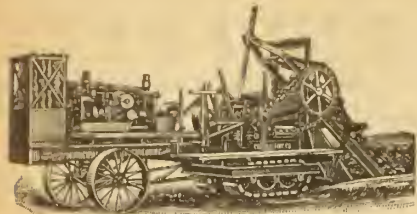
"The important thing is the testing. I use the Holden's Ideal Tester, made by the National Seed Corn Tester Co., Des Moines, Iowa. I prefer this kind of tester for the reason that it insures a uniform test and unless every kernel of the sample I test produces at least four vigorous roots I feed the ear from which the sample kernels were taken to the hogs."

Order It Now---

Order your Ideal Seed Corn Tester now. If you are like many—in a hurry—send us \$10 for No. 1 tester, which tests 5 bushels or 400 ears, or \$15 for No. 2 cabinet tester. You take no risk—we are absolutely reliable and refer you to The Homestead, or to any other publication in Des Moines, any bank or business firm. If after testing a batch you are not thoroughly satisfied, we will return your money immediately on receipt of bill of lading showing return of tester.

For further information as to sizes and prices—fill in and send the coupon here shown. Do this today. Time is flying—and you are nearer planting time daily.

NATIONAL SEED CORN TESTER CO.,
1115 Walnut Street, Des Moines, Iowa.
Your Name _____
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Send me your FREE catalog and book



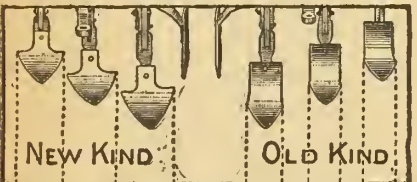
PURCHASE AN Austin Tile Ditcher

It will dig from 3,000 to 5,000 lineal feet per day and make you more clear money than the best 160-acre farm in your county. If you have decided to branch out for yourself this year, arrangements should be completed at once, as spring will be here almost before you know it.

The Austin Tile Ditcher is the only ditching machine made that has positively self-cleaning buckets, hence will dig gumbo or sticky clay without clogging.

It is self-propelling and will travel over wet and boggy ground without miring. For further particulars send for Catalog No. 311. Agents wanted in unoccupied territory.

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Save the Corn Roots

BROTHER Farmer, if you'll let me, I will help you make money by using my surface and deep cultivator shovel. Will fit any round shank, cut all weeds, scour in any ground, save the corn roots and handle easy for boys and horses. Send for circular.

Chas. Burmeister, Sutherland, Ia.

SEED POTATOES

NORTHERN GROWN

Why take a chance on your potato crop by planting common or home-grown seed? Plant Berry's RED RIVER, WHITE PEACHBLOW, or EARLY OHIO. They grow big and a sure crop. We are making special low prices. You cannot afford to plant common stock. The difference in the cost is only a trifle compared with the great profit by planting our seed.

If you want to make big money on your potato crop, write for our 100-page illustrated seed book. Valuable pointers and new potato growing secrets. Worth thousands of dollars to all who write us. Send today.

A. A. BERRY SEED CO., Box 703, CLARINDA, IA.

TESTED SEED CORN MINNESOTA GROWN

I have both yellow and white seed corn that will get ripe anywhere in the corn belt. The ears are from 8½ to 11 inches long. The test is from 90 to 95 per cent. Went 80 bus. to the acre last year. You take no risk with this corn. Ripens in 95 days. For 10 days only I will sell it shelled, in bags, at \$3.00 per bushel f. o. b. Clear Lake, Iowa. Don't risk southern-grown corn.

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"MORE POTATOES"
From ground planted secured by use of the **KEYSTONE POTATO PLANTER** than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for catalog, price and full description.
A. J. PLATT, Mfg., Sterling, Ill.

SWEDISH SELECT OATS

Pure, Recleaned Northern Seed. The great Oats of the Corn Belt. \$1.00 per bushel in twenty-five-bushel lots; \$1.25 per bushel in ten-bushel lots.

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THE EARLIEST TOMATO, 2c.

FOR 2c. we will send you a packet of Jack Rose, the earliest tomato. Yields large, smooth, solid fruits. We will also send you our catalog and coupon good for 5 packets of grand new seeds free. If you want the best seeds it is possible to grow send for **JUNG QUALITY SEEDS**. Send today for this great offer. Address:
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the row is perhaps enough to allow for each eye, if the soil is properly enriched. You may not be able to see the advantage of this method, in every trial, but look to other causes to explain your partial failures. Four times out of five this will help to good results, whatever other conditions may be.

PREPARING THE GARDEN.

To the Editor of The Homestead:

As the farmer's garden is generally worth a good deal to him he should be very careful in the preparation of the soil. I believe it is a good plan to fertilize the garden every year before plowing. Well-rotted stable manure is the best fertilizer. While it may not be necessary to cover the soil an inch or two with it, I think a light covering of a fourth or a half inch will be beneficial.

The garden should be plowed when the soil is dry enough to crumble nicely as it falls from the mould board of the plow. Never plow a garden when it is wet, for the soil will pack and bake and become almost lifeless. One year I was in a hurry to plant my garden and plowed the soil when it was soggy. A rain fell a few days thereafter, beating the soil together, then the sun came out and baked it. It was almost impossible for me to do anything with that soil, and my vegetables that year were few and very inferior. Besides I had a troublesome time cultivating them.

Unless the seed are planted immediately it is best not to harrow the garden, for the soil is most certain to pack down if there falls a heavy rain before planting time. I always leave my ground rough or as it was after breaking until I get ready to put in the seed. Even in planting potatoes and sugar corn, I have found it a good plan to lay off the ground without harrowing. The soil for small vegetables may be pulverized with harrow and garden roller. One year I simply used my garden rake in leveling the soil for lettuce, onions, radishes, etc. Of course, the soil was the least bit cloddy, but by the time I had given it two cultivations every clod had been pulverized.

If the land is flat and the season rainy, the soil should be thrown up in ridges so that it will drain well. If the water stands on the ground long after a rain, the newly planted seed will rot. One year I failed to throw up my garden, and the water stood on my potatoes a day or two after planting. Only half of them came up, for many of the seed rotted.

The farmer should also be certain that his garden is well fenced. If exposed to the ravages of stock, no matter how well the soil has been prepared or how good the seed it will avail nothing.

W. D. Neale.

SETTING ONION PLANTS.

To transplant a few hundred onion plants is not a formidable task, but when you set 120,000, covering an acre, you have a big job on hand, and no mistake.

It takes about 120,000 plants to set an acre of onions. I can get boys, that, with some practice, will set 2,000 to 3,000 plants a day, and nimble-fingered persons, used to garden work, will easily set 4,000 or 5,000. The job of planting an acre is therefore equivalent to probably not less than twenty-five days' work, and in some cases this estimate may be considerably exceeded; but the amount of \$30 should certainly be enough to pay for the whole job, when we pay boys fifty cents, and more experienced persons \$1 or \$1.25 for a good day's work.

Transplanting so many onions may be a costly operation, but it relieves us of much, if not all, hand weeding, and entirely of the job of thinning. Old onion growers know something about the tediousness and costliness of these operations. The saving, in these respects, more than pays for the labor of transplanting.

"How far apart shall I set the plants?" That is the next thing the novice wants to know. I have for years made the rows an even foot apart, and crowded the plants as much as I dared to in the row, in the attempt to secure the largest possible rate of yield. My motto was: "No use wasting space and opportunity."

BIG MONEY IN OATS

STIFF
STRAW
WHITE
BERRY
BIG
YIELDER

Look at
This Cut:
from a
Photograph
Taken of Two
Stalks from
Galloway
Brothers' Field;
Over 200
Kernels to the
Stalk.

GENUINE
REGENERATED
SWEDISH
SELECT

Not Every-day
Swedish Select—
Remember, there's
a Difference.

THE GREATEST
OAT ON EARTH

This is what people say who have tried these oats in this country. We believe it will pay you to try some of this new seed. There is more money year in and year out in oats than any other grain, if you raise the right kind. They are easy to raise and generally a sure crop.

Why are oats higher today than they were in former years? Simply because the farmers have been sowing the same old oats over and over again—oats that are inbred and run out, and yet they wonder why they do not get a better crop.

Try some of our new seed. There is big money in raising even 50 and 60 bu. of oats to the acre. At the present price of land you cannot afford to sow inferior, inbred seed any more than you can afford to breed your herd to an inbred bull. It is as easy to put in and harvest a big crop as a small one.

Remember, Northern-grown seed is the kind of seed for this country. All the oats we have to offer are guaranteed to be clean, free from foul seed; and, according to Canadian Government Grain Inspector, they grade No. 1 White—almost an unknown quantity in the United States.

Here is what Professor M. L. Bowman, former professor of Farm Crops, Iowa Agricultural College, says: "I visited Galloway Brothers' big farm in Canada, and was much impressed with the way they farm. I saw these seed oats they are offering. They are fine, pure, clean, big oats, and I believe it will pay any farmer to try ten or twenty bushels of this seed.—M. L. BOWMAN."

If you are interested in any of this grain, write us at once for free sample, or send us ten cents for a packet of one or both kinds. We will also mail you free our little booklet entitled, "Big Money in Oats and How to Grow Them," with authority on how to increase the yield. The oat yield of this country could be doubled if the farmers would follow instructions in this book, gotten out by Prof. M. L. Bowman and Galloway Brothers, Oats Specialists.

Don't wait until it is too late. Many people were disappointed last year in not getting seed from us, because they waited until our supply was run out.

All Minnesota, Wisconsin, North and South Dakota, Montana and northwestern orders will be filled direct from Minneapolis, Minn.

Address all communications to
GALLOWAY BROTHERS, 102 Galloway Station, WATERLOO, IOWA

GRILL THE SEED CORN MAN ELK POINT, S. DAKOTA

HAS GOOD NEWS FOR IOWA FARMERS

I OFFER for sale as long as it lasts: 3,000 bushels 1908 Reid's Early Yellow Dent; fancy ear seed in crates, \$5 per bushel, shelled and graded, \$4 per bushel. 2,000 bushels 1908 Iowa Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel; 5,000 bushels 1908 Dakota Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 1,000 bushels Early Yellow Murdock; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. This corn has been carefully saved from the year before, in well-aired and ventilated cribs, and I positively guarantee every bushel to test 90% or better, and I believe it will test over 95%. All my corn is raised within 15 miles of Elk Point, South Dakota, and is ten days to two weeks earlier than southern-grown corn of the same varieties. My Guarantee: Every bushel good or every bushel back. I have good 1909 seed corn also. Write today for circular and samples.

L. N. GRILL SEED COMPANY, ELK POINT, SOUTH DAKOTA.



12 Hardy Blizzard Belt Strawberry Plants FREE!

Everybody likes strawberries and to prove that our "BLIZZARD BELT" plants are the strongest rooted and heaviest fruiter, we offer to send ONE DOZEN selected plants to you FREE OF CHARGE. We picked 35 quarts of fine fruit from a test bed of but a dozen strawberry plants set the year before. You can do as well. If you care to send 10 cents for mailing expense, we will add 6 BABY EVERGREENS 2 years old and send all to you at proper planting time. Write to-day and we will enter your name for the plants and send you our CATALOGUE and BARGAIN SHEETS of HARDY "BLIZZARD BELT" fruits by next mail. Address

THE GARDNER NURSERY COMPANY, Box 202, Osage, Iowa.

SEED CORN 153 BU. ACRE

Diamond Joe's Big White—A strictly new variety. None like it. It is the Earliest and Best Big White Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from thoroughlybred inherited stock; every stalk bears one or more good ears, because scientifically handled, thoroughly dried and properly cured and had the most rigid examination. Big Seed Catalog FREE. It tells about all best farm, grass, garden and flower seeds grown. Write for it today.

Address, **KATEKIN'S SEED HOUSE, Shenandoah, Iowa.**

CLOVER

THE ADAMS SEED COMPANY, Box 1, DECORAH, IOWA.

Moore's High-Yielding Strain of Reid's Yellow Dent Seed Corn

MEANS 10 to 25 bu. increased yield per acre wherever planted. We have a limited supply of extra fine ear seed, selected early and showing very high vitality test, and we offer it while it lasts at \$4 per bu.; 5 or more bu. at \$3 per bu. Sold only in ear, subject to approval and test, and guaranteed to test 94% or better, or money refunded. Send order at once to

C. MOORE & SON, KELLERTON, IOWA.

SEED CORN

Guaranteed first-class quality; all the leading varieties. Extra early, medium and large, 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. **J. B. Armstrong & Son, Shenandoah, Ia.**

When Writing to Advertisers Please Mention This Paper

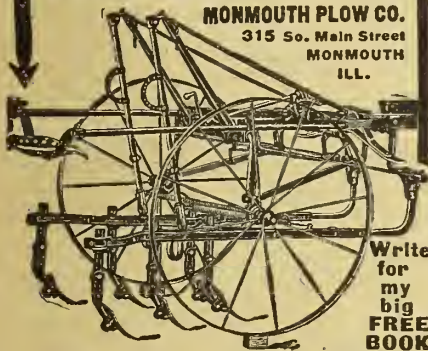
Get My Price Freight-Paid and Free-Trial Offer

I want to prove to you at my risk that this Corn Plover does better work than any other built. I'll send it for 30 days' test, and we pay the freight. The

MONMOUTH CULTIVATORS

are the most perfectly balanced.—Worm Gear holds Frame absolutely true; Drop Arch makes Shovels run steady; Long Gangs insure easy guiding; Soft-Center Shovels Scour in any soil. Send your name so I can tell you all the features—and our low direct-from-factory price. Means a big saving to you. I'll quote you on Plows and Harrows, too. Send postal to the Plow Man of

MONMOUTH PLOW CO.
315 So. Main Street
MONMOUTH
ILL.



Write
for my
big
FREE
BOOK

GLADIOLUS

The most magnificently beautiful of all summer flowering bulbs. The most popular, easily grown and showy both while growing and for cut flowers. We grow acres of them, including hundreds of varieties and sell large bulbs of our choicest Altona Mixture at 75 cts. per dozen, \$5.00 per 100; fine mixed 25 cts. per dozen, \$1.75 per 100. In order to get you interested we offer **100 Bulbets for 15 cents** or 1,000 for \$1.20 postpaid with full directions for growing. Many will bloom the first year. All will become large bulbs, bloom and multiply the second season. **It's a real bargain—how many do you want?** Beautiful, large catalog of Bulbs, Plants and Seeds mailed free. **Iowa Seed Co., Dept. D, Des Moines, Iowa**

ARTICHOKES WANTED

WE want to buy good quality artichokes. State quantity, variety, price, and when you can furnish.

NORTHROP, KING & CO., Seedsmen
Bridge Square, Minneapolis, Minnesota.

A FINE LOT OF Home Grown and Recleaned

CLOVER seed for sale. Free from buckhorn and other bad weed seed. Satisfaction guaranteed. Write for samples and delivered prices. Address, **J. W. RICHARDS - FERRIS, ILL.**

SEED POTATOES

CARMEN NO. 3—best late, white, yield; better than Rural N. Y., which they much resemble. Save money by buying direct from the grower. 5 bushels or more, 80c bu. Less amounts \$1 bu. S. C. Buff Orplington eggs \$1 per 15. Extra good mating. Address **O. J. EARLY, BRISTOW, IOWA.**

ODERBRUCKER BARLEY

The High Protein
FIRST premium at Omaha in 1908; first, second, third and fourth in 1909. Without doubt the best barley in America. Get our circular, which tells you all about this good barley. We also grow Swedish Select Oats. **Thompson Bros., R. 3, Wadena, Iowa.**

JOE KRAMER THE CORN BREEDER OF

BLKADER, IOWA,
OFFERS 60 10-ear sets, 1908 Reid's; 25 sets new Reid's; 44 sets Snowflake White; 20 sets Silver King; 10 Champion sets 12 ears each. Corn all high class. First sets, \$5; second, \$3; ten Champion sets, \$10. Inspection welcomed.

VANSANT'S SEED CORN

World's greatest yielding varieties. Finest quality. Reasonable prices. Prompt shipment. Plant good seed—raise big crop. Beautiful catalog free. **W. W. Vansant & Sons, Box B, Farragut, Iowa.**

CLOVER SEED

RAISED in best clover county in the state. Recleaned, state-inspected seed. Price, \$8.75 per bu.; sacks free; 10-bu. lots or more, \$8.50 per bu. Order at once if you want it. Address **Lohman & Fletcher, West Point, Lee Co., Ia.**

60 VARIETIES Strawberry Plants

Send for Catalog.
D. J. HENRY, LaPorte, Ind.

SEED OATS

I HAVE Early Champion Oats for seed; best for seedling grass with. Do not lodge or rust as late oats do on rich land. Also medium red clover seed; sample on request. **G. Gregory, Ralston, Iowa.**

The PLATTE VALLEY RED CEDARS

GROWN from seed, have no equal for wind-breaks; hardy and vigorous anywhere. Write for price list.
L. E. GARLAND, AFTON, IOWA.
Successor to Garland & Fowler.

STRAWBERRY PLANTS, 50c. per 100; \$2.50 per 1,000. Blackberries, Raspberries. Circular free. **C. J. Mackey, West Liberty, Iowa.**

But I got over that notion. I find that I can give the patch better attention, more thorough and continued after-culture, if I make the rows fourteen inches apart, and set Gibraltors four inches and Prize-takers not less than three inches apart in the rows. It is only when I plant onion seedlings to be pulled up early for green or bunching onions (and they are admirable for that purpose) that I crowd them to two inches in the row.—(T. Greiner, in Onion Culture.)

TOP-WORKING.

By top-working is meant the grafting or budding of a tree after it is of some considerable size. The term is used to distinguish such trees from those that are root-grafted. It is here recommended for severe locations and for somewhat tender kinds, such as the Wealthy, which, besides being somewhat tender and liable to sun-scald, is weak in the stem and crotches.

If this variety is grafted on the branches of the Hibernial, which is a very hardy sort with strong crotches, a tree is formed that has much of the hardiness of that variety, but at the same time bears Wealthy apples. By this method we may increase the hardiness of trees to a considerable degree. Some varieties seem to be better adapted to one stock than to another. The Hibernial is a stock that is hardy in every particular and especially desirable for top-working. It grows rapidly, makes a large tree and will keep up in rapidity of growth with any of our larger apples. Most of the larger growing crabs make good stocks for top-working. The Transcendent crab may be successfully used for this purpose. When it is intended to grow an orchard by this method the stocks should be set in the spring, to be budded the following August or to be grafted the following spring. If to be budded the buds should be inserted in about the same positions in the head of the tree as the grafts.—(Green's Fruit Growing.)

LIFTING CELERY PLANTS.

The plant bed should be well watered several hours before the plants are lifted, and as much soil as possible kept on the roots during handling. If transplanted plants are being used, they should be removed from the plant bed by running a knife blade between them in both directions and then lifting with a cube of earth adhering to the roots. If the plants have not been transplanted, they should be loosened by means of a trowel or spade and separated. Among the thriftiest plants in the bed will be found all the rogues, or sports, as they are commonly called, and it has often been observed that where two or three plantings are taken from the same bed, using the best plants each time, that the first lot will invariably include those that are not true to variety type.

Broad, flat pans, made of galvanized iron, three inches deep and sixteen inches in diameter, are suitable for holding the plants while they are being transported from the plant bed and set in the field. If the weather is dry, a layer of wet moss placed in the bottom of each of the pans will aid greatly in keeping the plants in good condition. The work of taking up the plants is generally performed by boys and girls or other cheap labor, but it is essential that the work should be well done, as the speed attained by the planters and the growth of the plants afterward depend largely upon the condition of the plants when set. The pans containing the plants should be either carried or carefully hauled to the fields where the planting is being done, and protected from drying until required for setting. If the plants have made a vigorous growth in the plant bed, it will be advisable to cut back the tops, by means of a lawn mower, scythe, or sickle, in order to reduce the drain upon the roots until the plant becomes established in the open ground.—(W. R. Beattie.)

PROFIT IN THE SMALL GARDEN.

To the Editor of The Homestead:

There are few persons who realize the profitableness of the small garden. I have been growing a small garden each year for fifteen years, and I have

found it worth from twenty-five to fifty dollars each year. Last year I had a plat of ground 40x120 feet. I put one-half of it in Pondaroso tomatoes, as my family are especially fond of this vegetable. By planting the hills tolerably close together I put out 120 plants. I kept the plants pruned of suckers and tied them to stakes. Their yield was splendid, and we had all we could use during tomato season and enough surplus to sell several dollars' worth to the neighbors. My wife put up seventy quarts for winter use, and they were greatly enjoyed during the cold winter days. The rest of the garden was utilized for other vegetables.

Lettuce, onions and radishes were planted early that they might be used and give way to later vegetables that were to be planted on their ground. Peas and beans, beets and cabbage, the early variety, were supplied in their season from this piece of ground. Late cabbage were planted where the earliest vegetables were grown, and turnips were sown where peas and beans had flourished. Sugar corn was grown between the rows of potatoes. Parsnips and salsify were given a place. Pole and butter beans were grown near the wire fence and were supported thereby instead of putting me to the trouble to secure poles. Every inch of ground was utilized, and the reward was satisfactory.

Subscriber.

CONGRESSIONAL SEED SCRAP PILE.

To the Editor of The Homestead:

Is it not possible for the farmers and farm journals to rouse up our men in congress to action upon some of the most vital questions before us? Will someone, please, explain why the shameless scheme, the congressional seed distribution of common farm seeds, is kept up, adding thousands of dollars to the annual government deficit? Is it not an insult to the farmers to be patted on the shoulders by this infernal taffy business? Are we farmers considered by our men in congress to be ignorant to the extent of being bought by a package of worthless farm seeds which we have to pay dearly for ourselves? Or what can be

their motive for keeping it up in spite of all protests?

Also, please explain why parcels post has been sidetracked? Can it be that our congressmen are willing to sacrifice the farmer's interests for the newspaper's clamor that such a law, if enacted, would destroy our small towns? Are we not agreed, as farmers, that we will support our home towns, but will have a little to say, when juggling both in and out of congress is carried on to the extent of depriving us of our just rights? Should we submit to such fleecing much longer? Please suggest the remedy and compel the party in power to redeem the party's campaign promises. Is it not timely for us to sit up and take a hand in the coming election of members to congress this fall? No candidate should be supported unless his honesty could be verified beyond a doubt; let them stand or fall upon their past records.

A deficit in the postoffice department is held up before us when we farmers desire any improvements in mail service which would better the conditions on the farms. Kindly explain if you can why, in the face of these facts, are so many tons of farm seeds, as well as tons of other mail from members of congress let through the mails annually free of charge?

Let us have an extensive discussion on these subjects, for we will not get our just rights unless we fight, determined to get them. **J. C. Nelson.**

Hancock county, Iowa.

Dr. Woods Hutchinson, of New York, the food expert, says that it is impossible to give school children too much to eat as long as they eat only the things they want to eat. They have an intelligence about the matter, he says, that is the best guide. If they want sweets, let them eat them until they have had all they need, and they will then cease to want them.

PRIZE-WINNING SEED CORN

Tests 90 and 100 per cent.
PURE KHERSON OATS
and Field Seeds. Write for catalog and prices.
AYE BROS., Second Street, BLAIR, NEB.

250 STRAWBERRY PLANTS \$1

(CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. **THE WILDIHAGEN STRAWBERRY BEDS, WATERLOO, IA.**

Early Monarch Oats

GROWN AT
CALGARY, CANADA.

HAVE you paused to consider that unless you increase your yield of oats you will be compelled eventually to quit raising this crop? Most farmers have actually lost money on their oats crops in recent years. **The Early Monarch Oats** are grown from carefully selected stock seed of known purity, grown on clean land, free from weeds. They are a strong and vigorous growth; very stiff, heavy straw. Grows to a height of about 3 1-2 feet, with very heavy root growth and a very heavy stooler, making it a very strong smut and rust-resisting variety. Averaging about 50 pods or 100 grains to the head. Ripens about a week later than barley.

Certificate of Yield

This is to certify that we have carefully measured the ground on which was grown your crop of Early Monarch Oats during 1909 and find that they yield 98 7-8 bushels per acre (32 lbs. per bu.)

JOHN MOORE,

GEO. SADLER,

The above was the average yield for 200 acres. **CHAS. GROBE, Thrasher.**

Guarantee

We guarantee these oats to be perfectly graded, clean, and absolutely free from wild oats or weed seeds and that all orders shall be filled exactly according to sample.

O. S. JONES SEED CO.

PRICE 2 bushels, \$3.00, including sacks.
10 bushels, or more at 1.25 per bushel, including sacks.

Send for Samples. Get your orders in before it is too late.

O. S. JONES SEED CO., Philips Ave. North, Sioux Falls, S. D.

Apple Trees, Evergreens, and Other Nursery Stock

At Wholesale Prices Direct To The Planter

We have always grown more or less nursery stock on our **Faribault Seed Farms**, and have now such a large stock, especially **Apple Trees** and **Evergreens** that we are not only able to meet all competition but we will sell direct to our farmer friends at wholesale prices. We have this year over 500,000 home grown **Apple Trees**, nothing but the very best hardy Northwestern varieties that are bound to produce fruit in a short time. No. 1 trees at 6 to 17½ cents each.

We have also the largest stock of **Evergreens** in the Northwest—grown in their natural home. As we produce them by the million, the cost of production is much less than that of any other grower; besides we have all our own moss and lumber for packing.

Our soil is of such a nature that it produces the best possible fibrous root system so that you won't have any trouble in getting our trees started.

You can get anything from us in the nursery line at 50% to 75% below the regular prices. We employ no agents, no tree peddlers, no commissions to pay.

Write for our **Special Wholesale Nursery Catalog**, and if interested in pedigreed varieties of Farm and Garden Seeds and Government tested Clover, Alfalfa and Grass Seeds, we will send you our **Large Illustrated Seed Catalog** also.

FARMER SEED & NURSERY CO.,

336 8th Ave., Faribault, Minn.



PUBLICITY PAYS.

To the Editor of The Homestead:

Until quite recent years the question of publicity, or as we more commonly speak of it, advertising methods, was one with which the farmer concerned himself but little. Today it is recognized as one of the foremost considerations in up-to-date commercial farming. Not only must the farmer be able to produce cheaply, but he must be able to place his products before the people who will pay the highest price for them. In this sense advertising is an actual productive power. It creates an income by inducing people to buy where they would not have done so if their attention had not been especially directed to the product by efficient advertising.

In order to be successful in advertising it is necessary first of all, to have a first-class product, something that people need or want. Then, too, an advertisement should be specific. If a man has only a hundred bushels of seed oats or a half dozen shoats to sell, this fact should be stated specifically so that the man whose order arrives too late has only himself to blame for not getting ahead of the other fellow. He knew of the limited supply; it was to his interest to "come early." A specific advertisement is more likely to bring the buyer who wants the particular thing offered for sale, and is likely to make more sales than a general advertisement. If one has only two Guernsey bulls to sell, say so, rather than to announce: "Guernsey cattle for sale."

The agricultural fair is a most excellent advertising medium. There is nothing that appeals more strongly to the would-be purchaser than does a premium won in open competition. It is the positive guarantee of excellence. While those who follow the local fairs know well that in classes where there is no competition a very inferior animal may be given first place, yet nine buyers out of ten are satisfied to know that the particular animal is a first premium winner, without stopping to consider how that honor was attained. From an advertising standpoint a first prize is a first prize, regardless of its setting.

Methods of advertising may be summarized under a number of heads: (1) The roadside billboard is often a valuable means of securing local publicity. (2) The handbill or poster also secures local publicity and in some cases may prove advisable, especially on an article that would be mainly of local importance. (3) The letterhead is one of the cheapest means of advertising, and it goes wherever one's correspondence is directed. The postcard may be used strictly for advertising purposes, and is particularly valuable in a follow-up system. (4) Advertising in periodicals is by all means the best way to attract the attention of large numbers of people living at a distance. This kind of advertising can never be made to pay unless one has an article of merit, and a quantity sufficiently large to be able to satisfy a number of customers, but when one does have the quality and the quantity, it is folly to depend upon local publicity to make sales. (5) The advertising value of appearances is one that should never be overlooked by any farmer. The well-kept farm, the clean, well-painted buildings, the neat farmyard, the well-kept fences, are in themselves advertisements that attract the best of local patronage. It is a force to be cultivated.

In any scheme of advertising no one should get the notion that the advertisement is the salesman. This is not its function. The advertisement simply locates the field and knowing the field, it rests with the advertiser to do the selling. Subscriber.

NAVEL DISEASE IN COLTS.

To the Editor of The Homestead:

I should like to emphasize the necessity of knowing that the baby colt is properly attended to. There is absolutely no cause for joint ill or navel trouble but lack of care before the little fellow gets on his feet. Some navel cords are very large and hard and would tear the skin of the belly before the cord would break, and thereby injure and derange other organs of the belly so that blood poisoning sets in. Then it may go to the joints, etc. If the man is on hand when the colt

comes, and can keep the colt down and quiet till the cord stops beating, then cut it about five inches from the body and tie it with a good stout cord, then double it up and tie it again, you cannot get any poison in its navel any more than you could in its hip. Then rub the two front teeth through above and below and see that it gets a good dinner, and your troubles are over in that line. I know that many will say it is too much trouble to watch for the colt. I know it is some trouble, but it pays much better to have a good, healthy colt than to have a very poor one to bother with longer than you would have had to watch the mare, and even then the colt may die. I generally try to have them come in May and have the mare in a small pasture near the barn where I can find her in five minutes, night or day. Fayette Co., Iowa. A. L. Foote.

BEGINNING THE BEE BUSINESS.

To the Editor of The Homestead:

As spring is near at hand many persons are thinking of keeping bees and are wondering if it will pay. All farmers, dairymen, horticulturists and others need the services of bees, yet they may not pay in dollars and cents. A farmer while driving a reaper may be called to hive a swarm of bees, and the wages of the men left idle during that time would amount to more than the swarm was worth. It is well to consider this point and ascertain if there is not some one at the house who could hive a swarm if necessary. In almost every family there is someone who is not afraid of bees, and bees are not apt to sting while being hived. They seem to put on their good behavior when they swarm. A gentleman asked me once how he could prevent his bees from swarming and going to the woods while he was away from home. I told him he could put a strip of queen-excluding zinc on the entrance to prevent the queen from going out, and the swarm would return, but would try it again the next fair day and then he could attend to them. It is best, however, not to keep this strip on all of the time, because it will prevent the drones from going out and they will so clog the entrance as to prevent the workers from passing in and out, and we want everything out of the way of the workers during the honey season. To secure the best results, everything must be so arranged that nothing will interfere with the workers. I know of no business which, in the same length of time, will yield as much interest on the money invested as bee keeping, though it must meet failure some seasons. A business pays well, in the broad sense of the term, if, in addition to yielding a fair profit in money, it is conducive to health and happiness, mental culture, growth in virtue, and the comforts of home, and bee keeping stands the test well. As it is an open-air occupation, in pleasant weather it cannot but be promotive of health, and the cases are not rare in which invalids have been completely cured by adopting the vocation. It is preeminently a calling which demands thought and investigation. When a family has to buy honey they do not use so much as when they can have all they want just for the taking, and there is no purer sweet to be found. It would add largely to the health of every family if they would use more honey and less sugar and sirup. As a safe and pleasant household remedy honey has no equal. Pure extracted honey, taken warm, a spoonful every hour, is a valuable remedy for a cough. For diseases of the palate, throat and breathing organs, pure honey has proved itself of great value, and it also seems to have the power of disturbing the formation of fungous growth.

The best advice to a beginner in bee keeping is to get one or two colonies of Italian bees in a tin-frame Langstrath hive, with straight combs so they can be taken out and examined. In this way he learns when a colony is in a normal condition and will then understand when he finds one that is not. Some people advise a beginner to purchase a colony of black bees in a box hive, transfer them to a modern frame hive, and then Italianize them, but I think such advice is all wrong. That would be a good way for him to get increase

after he has learned to manage them, but for a person to start in that way, nine chances out of ten he will get so badly stung as to become disgusted and give it up. J. L. Young.

Riley county, Kan.

THE PROBLEM OF THE WEEDS.

To the Editor of The Homestead:

It is always present with us—this problem of the weeds—but we are fast nearing the season of the year when we will come more directly face to face with it than we have for the past few months, when active seeding operations have been at a standstill. Every time we buy a bushel of clover seed or of timothy, we are haunted by the fear, "It may be I am getting another supply of weed seed to scatter over my farm." And the likelihood is that this is true. For it is a fact that in spite of the closest examination we may be able to give the seed we buy with the naked eye or even with a good glass, we cannot detect the foul stuff unless we have a knowledge of seeds, surpassing that of the average farmer. Seed that looks all right to us may nevertheless be full of the worst kind of foreign matter.

How can we avoid this deception?

There ought to be a law in every state compelling those who sell grass seed to guarantee their product to be free from foul stuff. With every bag that goes out this guarantee should go. That should be the dealer's part. Then the state should provide that the farmer may send samples of that seed to its experiment station for analysis; and if adulteration or the substitution of impure seed be discovered the farmer would have redress.

In addition to this, the state should have power and should assume the right to issue bulletins showing just what the seed every dealer offers for sale contains and these should be distributed among the farmers throughout the state generally. If there were no other penalty attached to the crime of sending out impure seed than a knowledge that their names would be published in this way in connection with their seeds, that would be a great stimulus to put up only the very best possible seed.

Something may be done by way of exterminating quack-grass and weeds by spraying, thorough cultivation and other methods, but the time to do most effective work is before the seed is sown. Prevention always is better than cure.

Is it a hardship to draw the lines about those who deal in seed this way? Not at all. These men all advertise to handle grass seeds, not weed seeds. They expect the farmer to pay a good round price for these seeds. And he has a right to demand what he buys and pays for. To palm off dirt and other litter and foul seeds upon him for good seed is a deliberate fraud and should be punished as such. It does not help the matter for dealers to say they have to sell what is furnished them; they have no way to determine whether their seeds be good or bad, save as they take the word of those who put it in their hands. There are ways of growing pure seeds. There are methods of sifting out seeds that do not belong to the legitimate farm grasses. It is the business of the dealer to adopt these methods. If he is not willing to do it he might better go out of the business and leave it to those who can and will grow their seeds under conditions which will en-

able them to put a warrant on every pound they send out. Such growers and dealers there are and as farmers it stands us in hand to hunt them up and patronize them.

Edgar L. Vincent.

DESTRUCTION OF SPARROWS.

To the Editor of The Homestead:

I have often seen articles in the farm papers on how to put an end to the seed destruction by killing the sparrow, Wisconsin going so far as to pay a bounty on them. And now your paper has shown some traps for doing the work. I can never understand how the city people can make the farmer do what they want him to. It may be that the sparrow makes the robin fly from one tree to another, but they do not kill them, and if the city people want them killed in the parks, let them do the killing themselves. But I do not understand how the farmer can stand it to kill some of his best friends, for the sparrow, although he eats some grain, lives in the summer time on insects and feeds his young with them. If it were not for the sparrow there would not be many birds in the West, and the less birds there are, the more the worms will destroy. It seems to me a bad idea for the farmer to destroy the birds and then buy spraying machines. I was raised in a land where there are millions of sparrows and I have never killed one, nor did I ever see a farmer killing any. I have seen the farmers here trying to kill some and when I asked them why, they said they didn't like them because they got in the barn. A poor excuse I think. I don't like chickens in the barn, either, climbing in the manger and in the feed boxes. I never disturb a sparrow; when they make a nest in an idle horse collar I try to do without the collar as long as the young ones live, for they need a good many worms and bugs. Sometime ago someone read in a certain paper that pigeons were so good on the farm, destroying so many insects. As to that I would say that I have pigeons on the farm and have killed a number of them, but I never found any bugs in their crops. They will eat weed seeds in the summer time, however. Doves are protected by law, but I don't know why; they do not eat bugs, but leave them for the sparrow. I would advise the western farmer to let the sparrow live if he does not want to buy a spraying machine. John Bylstra.

Sheridan county, Neb.

This is the proper time of year for the subject of better farming to be discussed, says the Kansas City Star. There is still ample opportunity for the farmer whose interest may have been aroused by such expressions as that by J. J. Hill, the railroad builder, in New York recently, to prepare for scientific handling of his crops in the coming season. Winter wheat already is in the ground. But now is the time to test and select the corn to be used as seed, and to make inquiries of the state agricultural colleges regarding the improved methods of cultivation that have proved successful. The experiment stations aren't dealing in untested theories in giving advice. There are mighty few farmers who wouldn't find it profitable to consult them.

Ask your neighbor to subscribe for The Homestead.



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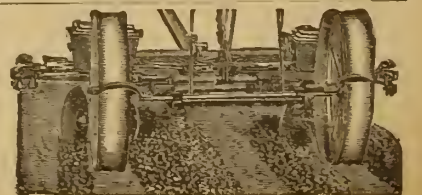
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DAY BY DAY

AGRICOLA

Kerosene will start a fire, but whipping will not start a balky horse. But starting a fire with kerosene is the more dangerous venture of the two.

Spring is coming. There are two sure signs: Wild ducks are swimming in the river and Mrs. Agricola has the housecleaning tone of voice in training.

He was a modest neighbor with the air of one who calls all the world akin, but he has been busy of late hauling ten-dollar hogs to market and he has grown as cheery as a pouter pigeon.

Everybody who has a chance enjoys getting rich better than being rich. Achieving has a zest unknown to possessing.

No farmer can be a sure enough success unless he heeds the Bible admonition to "magnify his calling and make it honorable."

Better oats are grown after sugar beets here than after corn or other crops. Some have argued from this that the beets add fertility to the soil, but in all likelihood it is simply that the culture given to the beets fits the land for a succeeding oat crop. In case of corn, the yield is generally less after a crop of beets, and this shows that it is not added fertility that makes better oats, but a better mechanical condition for that crop.

Judging from experience in this and adjoining counties farmers' institutes should skip the larger towns and be held in the smaller towns. And the traveling lecturers say this is in line with their observations. More farmers live near small towns than near large towns, and there is a closer bond of sympathy between town and country.

I believe it would be a good thing to have a farmers' institute even if none but town people attended. They would appreciate farm work and farmers, and appreciation itself is helpful.

I am glad to see that an agricultural professor has corrected the impression that mulching the roots of fruit trees will retard blossoming and so ward off frost. A noted agricultural writer gave publicity to this error a few years ago, and it is well that it has been publicly and authoritatively corrected.

In order to retard blossoming the part which blossoms must be covered and held in check. Strawberries can be so covered and therefore the blossoming of strawberries can be held back.

Forty-seven years ago Agricola sowed wheat in northeastern Iowa on the 12th day of March. The ground was in good condition and the weather, balmy and promising. But a promise is one thing and a fulfillment another thing. The old villain, Winter, came back and Spring jumped into his frosty lap and he held her fast. The crop of wheat was no good.

No man ever regretted stopping up his ears when the tale bearer opened his mouth.

Prejudice is pre-judging. Hear both sides before passing sentence.

If you have horseradish eat it now or for the rest of the year eschew it. Its use is as an anti-scorbutic—a corrective for eating a cold weather ration after warm weather has come.

Doesn't it make you feel envious to read of the fresh garden vegetables which your farmer acquaintances are now enjoying in their southern homes? Never mind—along in midsummer you will have as big an advantage over them as they now have over you.

Who wants to stop work in the fields and haul grain to the mill to be ground, then wait around for it or leave it and return for it another day—provided there is no necessity for this waste of time? And there is none. One of the consolations for

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Tracer, Iowa.

FREE GOVERNMENT farms. Our official 112 page book "Vacant Government Land" describes every acre in every county in U. S. A million acres vacant. How to secure 160 acres by entry. 1900 diagrams. All about irrigated farms. Price 25c post-paid. Webb Pub. Co. (Sta. 4.) St. Paul, Minnesota.

FREE FUEL FARMS. Mild climate, free fuel, natural gas. Prices \$20.00 to \$40.00. Address, Geo. Hill, Independence, Montgomery Co., Kansas.

SNAPS! SOUTH DAKOTA, North Dakota, Montana. Write us your wants. Lists and maps free. P. L. Neister & Co., Sioux Falls, S. D.

Agricola this spring is that he has a bin of barley, a gasoline engine and a good grinding mill. When the hogs need ground barley for swill, it is forthcoming on demand.

It is a pretty safe rule to sell surplus stock when it is high, regardless of whether you think it may go still higher. And it is a good rule to buy needed stock when it is cheap, for prices are always on the swing, when low it is likely to be higher and when high it is likely to be lower. Never get panic stricken in either case. Panics always squeeze the timid man the hardest.

When a fresh cow has a caked udder you can soften it by rubbing with water and corn meal. Omit the corn meal if you wish, and you may also omit the water. The rubbing, the "massage," is what does the trick.

If there is one thing worse than a soft collar for a horse it is the sweat pad. Use a hard collar and one which fits.

Select for a country schoolma'am a nice intelligent girl who loves the country. Her certificate will not be evidence of these qualifications—that is where you must use your own good horse sense.

I rode home with a neighbor the other day and complimented him on the appearance of his horses. He was not puffed up—merely said, "Yes, they are fat, but I do not think it costs any more to feed a fat horse than a poor one." And that set me to thinking.

Parsnips left in the ground where they grew are just in their prime now for eating. And if you intend to sell them you cannot be too quick about it. The demand is of short duration.

"Cucurbits will not mix," according to the agricultural college professors. This means that pumpkins, squashes and melons will not mix by planting together. Many farmers and gardeners think they do mix, however, and as to which are right this deponent saith not.

He who has a toad in his garden has at least one friend. Caution, never kill a friend.

THE STALL-KICKING HORSE.

To the Editor of The Homestead:

In the veterinary department of your paper recently I saw an article giving advice for preventing stall kicking by fastening a chain to a horse's leg. I would advise your readers to be careful how they do this, and if the horse is spirited, watch him closely. Several years ago I tried the plan on a young horse. In five minutes the horse was terror-stricken at the chain whipping him, but instead of cowering he tried to fight it off and it was with difficulty and some danger that two of us were able to take it off. Had it remained fifteen minutes I believe he would have torn the stall down to get loose and in doing so would have killed himself before stopping. As it is, while he is as good and safe a horse today as ever wore harness, his terror at the sound of a chain is such that I should hesitate to put a harness with butt chain traces on him. Subscriber.

REAL ESTATE.

NORTH DAKOTA Lands—We have bargains in lands in Burleigh county, from \$12.50 to \$25, for farms three to seven miles from the Capital City. Rich black soil, good water, schools, rural mail and telephones. Burleigh county has been overlooked. Buyers have rushed through here and paid more for lands farther west. The careful buyer will investigate Burleigh county lands. There is no place in the world with better opportunities to make money in land and farming. Now is the time to buy. Write us for information. Investors Mortgage Security Company Inc. Capital \$50,000. Bismarck, North Dakota.

FOR SALE—640 acres of the finest western Canada wheat land. One mile from Girvin, Saskatchewan. Four hundred acres cultivated, forty acres meadow, balance prairie. Canadian and American farmers on surrounding farms. Six-room frame house, barn and granary; eight head of stock and a complete outfit of farm implements. Terms Small cash payment, balance yearly crop payments. Write the Welch Land Co., 517 Union Bank Building, Winnipeg, Manitoba.

\$27.50 TO CENTRALIA, Wash. We want manufacturers of all kinds; have best shipping facilities; cheap fuel, coal or wood. We want farmers, dairymen, gardeners, fruit growers and poultrymen. We have good roads, schools, churches, and an elegant climate. For views and information, write Secretary Commercial Club, Centralia, Washington. "On the Pacific Slope."

THE PLACE for you, both for pleasure and profit, is Clackamas county, Oregon. Climate mild, scenery finest, soil most fertile, markets best. Thriving county second only twelve miles from Portland, metropolis Pacific Northwest, with connection by river and rail. For illustrated literature write Dept. O, Commercial Club, Oregon City, Oregon.

450 ACRE farm in Sargent county, North Dakota. Seven room house, two barns, two granaries, wells, windmill, tank. Good soil, good drainage, 35 acres cultivated, balance hay land. Near town, only 25 miles from South Dakota line. Good corn and grain country. \$55 per acre, easy terms. Kane-Kober Company, St. Paul, Minnesota.

FOR SALE—320 acres, two miles from county seat; house, barn, two granaries, well, windmill, pasture; 100 acres under cultivation, 50 acres ready to sow; \$25 per acre. 320 acres, eight miles from county seat; 120 acres under cultivation, balance pasture fenced; \$16 per acre. John Storey, Steele, North Dakota.

160 ACRES Eastern Kansas. Good new land. Good new improvements. Two miles to clean, attractive town, with fourteen passenger trains daily. Good schools, fine churches. Price, \$9,000. Good terms. Write for description. Bacon & Brittain White City, Kansas.

BETTER YOUR condition in sunny Alberta! Rich farms \$15 to \$30. Splendid climate. No tornadoes. People from the U. S. coming fast. Free list of bargains on application. Don't wait. Write at once, to Allan & Middleton, Bruce, Alta., Canada.

WANTED—Farms and businesses. Don't pay commissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties free. American Investment Association, Minneapolis, Minn.

COLORADO—Irrigated lands 25 dollars and upward per acre. We can quote you prices that will make you some money. A letter of inquiry costs you nothing. Get in touch with us. The Boyle Realty Co., Durango, Colorado.

WASHINGTON LAND, 320, level, summer fallowed, except 30 acres, fenced, small buildings, 8 miles R. R. W 28-13-29. \$16 per acre. Write us for land investments. Baldwin & Pile, Spokane, Washington.

WANT A FARM in Oregon? Of course you do. Write at once for large list of Williamette Valley farms with descriptions and prices. Starr & Foster, 1022 Board of Trade Building, Portland, Oregon.

OREGON FARM and fruit lands; timber and cut-over lands; grazing and irrigated lands. Write us for information. Magnus Land & Investment Co., 316 and 317 Lewis Bldg., Portland, Oregon.

CORN, wheat and all staple crops grow to perfection here in the garden spot of Oklahoma. Prices reasonable. Write for list and descriptive literature. C. E. Pochel, Newkirk, Oklahoma.

DELTA COUNTY, Colorado. Western fruit and agricultural empire. Improved and government lands. Use your land rights. Particulars for stamp. E. S. Gould, Hotchkiss, Colorado.

MONEY—I will pay your expenses, put you in touch with owner, and sell you land at lower prices on easy terms that is sure to advance soon. B. C. Welch, Texhoma, Oklahoma.

THE PANHANDLE of Idaho—Bonner county. Fruit, hay, mines and timber opportunities. Come and see. For information write Lakeside Realty Co., Sandpoint, Idaho.

50 ACRES—7 room house; barn 32x40. Fruit. Main road. Location good. \$1,500; \$500 cash, balance yearly. Hall's Farm Agency, Owego, Tioga county, New York.

SOUTHERN IDAHO—80 acre choice irrigated farm near Idaho Falls and sugar factory. \$45 per acre, including water right. J. R. Adlerbach, Billings, Montana.

OKLAHOMA, Custer Co. 320a grain and stock farm; 2 miles railroad town. Good improvements, well watered. \$30.00a. C. A. Fisher, (Owner), Custer, Oklahoma.

STOP RENTING—Buy a farm in Stanley or Hand county, North Dakota. Prices, \$15 to \$25 per acre. Jay P. Morrill, Palace Building, Minneapolis, Minnesota.

SOUTH DAKOTA lands for sale in artesian belt, from \$15 to \$50 per acre. Live agents wanted. Call on or write Waters Land Agency, Redfield, S. D.

FOR SALE cheap—87 acre farm; good soil, all cleared; good buildings; 60 acres plowed. Write owner, Joseph Jeles, River Falls, Wisconsin.

500,000 ACRES of good grain land to be had under the homestead act near here; good climate. Address Business Men's Club, Columbus, Montana.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

FOR SALE—Farm and ranch lands in famous Judith Basin, Montana. Write me for particulars. H. M. Johnson, Lewistown, Montana.

320 ACRES prairie land 6 miles northwest of Yankton, \$30 per acre. Terms. A. E. Lindstrom, Yankton, South Dakota.

FOR EXCHANGES, quick sales and large list, address Room 6, Continental block, Omaha, Neb.

CASH for your property, less than 20 days. Real Estate Salesmen, Lincoln, Nebraska, 913 Funke.

KANSAS and Missouri farms for sale or exchange. W. H. Simonton, Fort Scott, Kansas.

FARM HOMES. Easy terms. Todd Bros., Salem, South Dakota.

REAL ESTATE.

FARM BARGAIN—640-acre, finest section in Clarke Co., South Dakota; \$15,000 new improvements at \$65 and 1120-acre at \$35. Write S. Sanders, Sioux City, Iowa.

POULTRY.

WHITE PLYMOUTH Rock eggs from my prize-winning pens at \$2 per 15; 30 for \$3.50; from farm range, \$5 per 100. Bred them 12 years. Satisfaction guaranteed. Bertel Hansen, R. 2, Alta, Iowa.

SILVER LACED Wyandottes exclusively; winners at several shows. Eggs for hatching, 25, \$1.35; 100, \$3.50. Circular free. John A. Johnson, Route 2, Pilot Mound, Iowa.

INDIAN RUNNER DUCK eggs \$2 per 13. High scoring silver laced Wyandotte eggs, \$1.50 per 15, \$5.00 per 100. Mrs. Theron Culver, Garnett, Kansas.

BARRED P. Rocks—Prize winning strain. Large, excellent layers. Satisfaction guaranteed. Eggs \$1, 15; \$4.50, 100. Mrs. N. Paulson, Route 5, Harbin, Ia.

SINGLE Comb Rhode Island Reds. Good fertile eggs 15 for \$1; 100 for \$5. Orders filled on short notice try me. Frank Morley, Bedford, Iowa.

SINGLE COMB white, black, buff, Orpington and Barred Rock eggs. Best known strains. Send for mating lists. Spurgin, Pandora, Iowa.

BEST FARM raised Black Langshans high scoring stock; good size, shape, color. Eggs, 100, \$4; 15, \$1. Frank Townsend, Ashton, Iowa.

PURE WHITE Wyandottes. Eggs \$2 for 15; \$3.50 for 30; cockerels \$2 each. Wisconsin Home & Farm School, Dousman, Wisconsin.

ROSE COMB Rhode Island Reds; Eggs \$1.75, 30; \$5.00 per 100. Choice stock, farm range. Mrs. John Holmgren, Rolfe, Iowa.

PURE INDIAN Runner Duck eggs, thirteen for one dollar. Anna Pratt, Beaver Crossing, Nebraska.

R. C. B. LEIGHORNS, exclusively. Eggs \$4 per 100 or \$7 per 200. Mrs. J. J. Griffith, Lorimer, Iowa.

PURE BRED Partridge Cochins eggs for sale; \$1.50 per 15. Address, J. S. Troxel, Melbourne, Iowa.

BARRED PLYMOUTH rock eggs, \$1.50 per 15 or \$5.00 per 100. Aye Bros., Blair, Nebraska.

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EMBDEN geese ganders sold. Eggs in season. Hiram Clous, Clare, Iowa.

SINGLE Comb White Leghorns. Eggs \$1 per 20. M. E. Page, Madrid, Iowa.

GRAND Rose Comb Reds. Eggs \$1 up. B. Russell, Lamoni, Iowa.

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MEN WANTED—To prepare for the next railway mail, postoffice carrier-clerk, internal revenue and custom house examinations. Salary, \$50 to \$125 monthly. Rapid advancement to higher government positions. No "lay-offs" because of poor times. Short hours and annual vacation with full pay. Over 15,000 appointments to be made during 1910. City and country residents stand equal chance for immediate appointment. Common education sufficient. Political influence not needed. To advertise our schools, we are preparing candidates free. Write immediately for schedule showing dates and places of the spring examinations. Immediate action is necessary. Franklin Institute, Dept. R.25, Rochester, New York.

GOVERNMENT farmers wanted. Salary \$500 yearly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42 P, St. Louis, Missouri.

WANTED—Railway mail clerks; \$100 and more monthly; 2,000 to be appointed. Examinations soon. Write for application form 11 and full particulars. American Standard Institute, Kansas City, Mo.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination. Write for schedule and free trial lesson. Ozment, Dept. 42 R, St. Louis, Missouri.

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PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

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SEEDS AND NURSERY STOCK. 250 STRAWBERRY plants, \$1, in three best varieties. Wholesale prices on nursery stock. Catalog free. John F. Dayton, Waukon, Iowa.

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FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successful coon, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

COLLIES for sale. Stamp for particulars. W. Wood, Glen Haven, Wisconsin.

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ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

AGENTS WANTED.

WE PAY \$80 a month salary and furnish rig and all expenses to introduce poultry and stock powders; new plan; steady work. Address Bigler Company, X-25, Springfield, Illinois.

PONIES.

FOR SALE—25 Shetland ponies, imported and registered. Mares and geldings broke for children. Stallions to lease. Price list ready. Geo. H. Simpson, Wheaton, Ill.

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GUERNSEYS—"The Bitter Breed"—choice youngsters; both sexes; from official record and advanced registry ancestors. A. H. Hinman, Allenville, Wisconsin.

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BLACK Imported Percheron stallion, Marengo, 759. H. L. Walker, Brayton, Iowa.

MISCELLANEOUS.

LADIES MAKE shields at home, \$10 per 100. Work sent prepaid to reliable women. Particulars for stamped envelope. Eureka Co., Dept. 32, Kalamazoo, Michigan.

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It is best to buy this Bonded Incubator because you are absolutely certain to be satisfied with it and with the results it produces.

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are sold on 60 days' Free trial. They are fully guaranteed and the guarantee is not only backed by the total resources of the Sure Hatch Incubator Company, but also by the Bankers' Surety Company of Cleveland, Ohio, with \$1,000,000 capital and surplus. This Company issues a Guaranty Bond on every Sure Hatch Incubator, insuring the owner that we will live up to our liberal guarantee and this bond is actually sent to every purchaser of a Sure Hatch Incubator.

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\$7.55 Buys the Best 140-Egg Incubator Ever Made



\$4.50 Buys the Best Brooder
Both Incubator and Brooder, ordered together, cost but \$11.50. Freight Prepaid. The Belle City Incubator has double walls and dead air space all over, copper tank, hot-water heat, self-regulator, thermometer, egg tester, safety lamp, nursery, high legs, double door.

The Belle City Brooder is the only double-walled brooder made, hot-water heat, platform, metal lamp. No machines at any price are better. Write for our book today, or send the price now under our guarantee and save waiting.



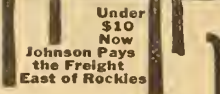
Belle City Incubator Co., Box 52, Racine, Wis.

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He says to tell you that he has filled it with good things this year. 350 photographs in the book. Every other page a poultry sermon. The best free poultry book ever published.

It is the 1910 Old Trusty Incubator is covered with asbestos and again covered with handsome sheet metal. 52,000 metal covered incubators last year. Making prices to sell 70,000 this year. Don't pay two prices for untried incubators or the score of imitations of the Old Trusty. Write Johnson today and get special direct prices. 40-60-90 days' free trial. A whole year if you want it.

Johnson's "Incubator man" has made more incubators than any three men in America. He knows how to make them to hatch for the novice or expert. His 10-year guarantee makes you safe. Address for book
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POULTRY PROFITS DOUBLED

If you want \$2 profit where you now get \$1, either from eggs or poultry for market, simply send us your name and address and let us tell you the real poultry secret that has doubled the profits of poultry raisers. It is the only real way to poultry success. Make every fowl a profit earner. Write at once for this information whether you have 3 fowls or 300. It's free to you. Black & Hawk Supply Co., 131 Blumke Bldg., St. Louis, Mo.

Breed Prize Winners

We have the stock at right prices—all leading varieties; 100 pens. Write us. Booklet on "How to Raise 48 Chicks Out of 50 Hatched," 10c; Poultry Paper, 1 year, 25c; Catalog Free.
ROYAL POULTRY FARM
Dept. 206, Des Moines, Iowa

POULTRY

This department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

INTEREST IN PURE-BRED POULTRY.

For practically the first time an earnest, systematic effort is to be made to bring poultry raising up to the scientific level of other branches of farm life. Within the past few years special trains have been run in the interests of larger corn, wheat and oats yields and increased dairy outputs. The granaries and the herds have been taken care of, but the hen (two weeks of whose work the country over would pay the annual interest on the national debt) has been allowed to go about her work unadvised by the new scientific farmers who are not content with the old order, but are attempting to make farming more certain and profitable.

The first step in the campaign to improve the standard of the flocks and to increase the poultry output has been taken by the poultry department of the Kansas State Agricultural College, which recently caused a notice to be inserted in the newspapers of the state to this effect: "The department is desirous of sending out over the state eggs from pure-bred poultry free of charge. Anyone wishing to take advantage of this opportunity to add some pure-bred stock to his present flock should address the poultry department, Kansas State Agricultural College."

The notice was published broadcast at a time when the Kansas hens were off duty and eggs were selling in the stores at forty cents a dozen. The effect was magical. Before twenty-four hours had passed the poultry department of the Kansas State Agricultural College was literally deluged with letters requesting some of those eggs. In many cases they were wanted merely to eat, but there were hundreds of progressive, well-intentioned men and women on the farm who saw the possibilities of improving their flocks and wanted particulars. Altogether, over 4,000 letters were received, and to a little over half the number letters have been sent out stating the conditions on which the eggs will be sent. Farmers who already have good pure-bred stock will not be supplied, the desire being to interest people who have never had fancy stock of their own. Here are the conditions that the Kansas farmer must agree to before the eggs will be sent to him: He must agree to keep a record of the fertility and hatching ability of the eggs and to give one chicken out of every four raised to September 1st to the college. The object of the department in making the offer is threefold: First, to give the farmers a chance to get a start with pure-bred chickens; second, to enlarge the college flock; and third, to get the names of farmers who are interested in poultry raising. Already many applications from those who have agreed to the conditions are coming in and the eggs are being shipped out.

It is not difficult to forecast the results. There will be a quickening of interest throughout the state in pure-bred poultry, the college flock will be materially increased and before many years have passed the state average of egg production will be larger. The movement bids fair to do for the hen what the culture clubs in Iowa are doing for the cow. By means of scales and notebook the production of the various cows are to be kept track of hereafter, so that the non-productive animals can be eliminated from the herds and the average of production be increased. By keeping track of the fertility and hatching ability of the eggs the Kansas farmers will be in a position to know what birds are producing in quantities anything like they should. The trouble has been heretofore that the American farmer has been content with hens which lay 120 or 130 eggs a year and to let it go at that, while foreign hens

have come to the front with authentic records of more than 200 eggs a year. The effort to bring about a national laying competition, similar to the Australian competition, does not seem to have had much tangible result, but the work begun by the Kansas State Agricultural College should be, and doubtless will be, an incentive to others and the real beginning of a nation-wide campaign to make Biddy still more profitable.

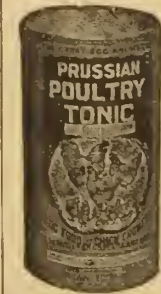
EGG BOUND FOWLS.

To the Editor of The Homestead:

A subscriber sends the following communication:

What ails my fowls? They seem to be healthy in all ways except that they get weak in their legs and stagger and cannot stand on their feet. My fowls are Brown Leghorns. I have twenty-six in a coop eight by twelve feet, on the ground, six-foot front, four and one-half-foot back, two windows and a door on the south side. I have wintered them there. The coop is on the south side of a sandy hill. I feed in the morning ground feed composed mostly of oats and a little bran and corn meal, with some meat scraps. During the day I feed corn on the cob and buckwheat and occasionally two quarts of wheat, with milk and water to drink, dust bath, plenty of granite crystal grit. They lay from eight to thirteen eggs a day, but are very thin in flesh. They seem healthy otherwise. Am I feeding right? If not, please tell me how and what to feed. Is this a contagion and what shall I do for them?

The lady's fowls have no contagion; that I will assure her. The difficulty is either egg bound, or it is brought about by disuse (lack of exercise), but I suspect the former. Egg bound is not a disease, but a condition, brought about by heavy feeding and lack of exercise. To avoid further trouble simply get your fowls busy at once. It is not natural for a fowl to be fed without working for her food. Too much of this is done, I am sorry to say. Fowls will seldom if ever be affected with leg weakness of any kind where exercise is permitted to its full extent, but when the legs show a weakness from the effects of egg bound it is not any affection of the legs, only a sort of paralysis. They are partly paralyzed and will never recover fully until the egg is expelled. Sometimes the fowl will relieve herself, but seldom will she do this, especially if she is overfat and has but little exercise. It then remains for the operator to extract the egg; in fact, at my place this is done at the first symptoms. I take no chances, for the sooner she is relieved, the sooner she will regain her normal condition. It is no great science to extract an egg; all that is necessary is to have an assistant holding the fowl erect, tail toward the operator; after anointing your right index finger with sweet oil, insert it in the rectum of the fowl, and as the egg passage is always at the left of the rectum (as you face the tail of



Laying Hens and Thrifty Chicks

These will be your profitable results if you mix a little Prussian Poultry Tonic Concentrate with the feed. It is a real medicine that aids digestion, regulates the bowels, prevents disease and keeps hens laying regularly. For chicks it insures rapid growth, early broilers of cockerels and early layers of pullets.

PRUSSIAN TONIC CONCENTRATE

contains no cheap "filler." That's why it goes farthest and is most economical. It is helping thousands to make big poultry profits by keeping up heavy egg production in season and out. Trial package 25 cents. If your dealer can't supply you send to us direct.

FREE BOOK tells what Prussian Tonic will do for your old and young fowls. Gives other valuable advice. Write us today.

Prussian Remedy Co., 20 E. Chicago Ave., St. Paul Minn.

Write To Us And Get Acquainted

With What We Have to Offer

A letter or postal—either one will do—then we'll send you our literature and valuable information on raising poultry to make money.

Racine Incubators turn healthy eggs into healthy chicks every time—and give the highest percentage of hatches. They are sure—safe—and simple—made to last a lifetime—sold at prices lower than anybody else will quote you for the same quality—and they make money for you right from the jump and give everlasting satisfaction. Write and get our proposition—our literature is free. Free Trial plan—best ever offered. Don't delay—Write for full information today.

RACINE HATCHER COMPANY, Box 135 Racine, Wis.



Let Me Send You a Queen



I am very much in earnest. I want to send you a Queen Incubator to try.

If you'll spend a cent in writing for my Incubator Book, I'll spend many times that much in furnishing it to you.

If you'll say you want to try a "Queen," I'll say "Go ahead and use it three months, and here it goes, freight prepaid."

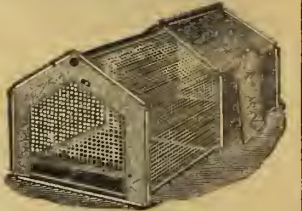
Then I'll go on and say, "Examine the Queen—compare it with all other makes—consider its highest percentage of hatches and the lusty, healthy chicks you get—how perfectly it runs and regulates itself—the out expense it saves you—its absolute safety—and the 5 year guarantee I give you. You can't get Queen results with anything but a Queen. I want you to learn this at my risk."

That's the fairest, squarest offer I know how to make. Send the postal now that gets my Catalog and Liberal Plan.

WICKSTRUM, QUEEN INCUBATOR MAN,
Box 10, LINCOLN, NEB.

The CLUCK'S IDEAL BROOD COOP

\$1.50 Sold Direct \$2.50



FROM manufacturer to the farmer; no middle-man's profit. Protect your chicks. This is absolutely the only up-to-date Sheet Metal Coop on the market today that will answer to the following in the most perfect manner. Points to be considered: All the following points, which make up a perfect Brood Coop, are found in this photograph. We invite your criticism. It does not rust. It does not become damp. It does not become foul from use. It does not require painting to keep the lice out. It is louse proof. It is mite proof. It is rat, cat and mink proof when closed at night. It can be folded and put away for the winter. It can be taken apart and cleaned. It gives perfect ventilation, either when yard is opened or telescoped. It will last a lifetime. When used with telescoping yard left open, the chicks are free from danger. Write for descriptive circular and special prices on orders calling for three or more coops.

STOVER GAS MACHINE MFG. COMPANY
FREEPORT, ILLINOIS.

A MILLION Incubator Chicks DIE EVERY DAY

We have a HOME remedy that will positively prevent or cure any kind of bowel trouble in young chicks at any age. Send us the names of 5 to 8 of your friends that use incubators, and we will send you this information free, and allow you 25c for sending us the names. This will be worth \$100 to you this summer. Send the names today; the information is free.

Raisall Remedy Co., Blackwell, Okla.

125 Egg Incubator \$10 and Brooder Both For \$10

If ordered together we send both for \$10. Freight paid cost of Rock-les. Hot water, copper tanks, double walls, double glass doors. Free catalog describes them.

Wisconsin Incubator Co., Box 105, Racine, Wis.

ON TRIAL 16 YEARS
Never found wanting. Don't experiment. Countless thousands of other poultry-raisers have made a success with
THE SUCCESSFUL
Incubator and Brooder. Anybody can operate them and make money. Let us prove it to you. Booklet "Proper Care and Feeding of Chicks, Ducks, Turkeys," 10c. Poultry paper, 1 year, 25c. Free Catalog. Des Moines Incubator Co., 50 2nd St., Des Moines, Ia.



the fowl) you must gently work in behind the egg so as to gently press it toward you. With your left hand pressing gently against the abdomen on the outside so as to assist the finger on the inside, you will soon have control of it so you can withdraw your finger. Then with both hands on the outside gently press to the front and the egg will soon make its way out. Do not be afraid when you see the egg passage partly protruding with the egg, for that is a part of the ceremony; just keep right on with your gentle pressure and with the assistance the fowl will give you, the egg will soon roll out. Before pressing the egg passage back in anoint with sweet oil and then press back into its natural position; then put your patient where she will not be disturbed and where it is warm, leave her there for an hour or two and you will find she is ready for a hearty meal. But do not give it to her; feed sparingly for a day or two on light cooked food and she can then be returned to the pen with her mates. A fowl will seldom be affected more than once during a season and that is with her first egg after a long period of rest with little or no exercise. It is much better, however, to prevent than to cure, by the promotion of exercise. I am not going to criticize our correspondent's bill of fare, only that she did not place enough stress on how she fed it. It is a fair ration and the fowls can be fed just about all they can eat when it is fed in such a way as to promote exercise at all times. This is where many people fall down; they do not realize that the natural condition of fowls is to exercise for all they get and if this is not seen to all manner of ills are sure to follow. There is no one who can say just how much to feed. Where they are producing heavily they must be fed liberally and even with such feeding they stay thin in flesh just the same, but are filling the egg basket all the time. M.

SQUAB RAISING.

To the Editor of The Homestead:

A subscriber from Saline county, Mo., sends the following communication:

I would like to ask you for your ideas as to raising pigeons, or squabs. I believe they are called when marketed. I would like to know if it is a paying business and if there is much demand for them. How should they be raised and what are the requirements in general for making it a paying business. I would like to hear from other readers who are in that business and make it pay.

The writer must confess that his experience is limited along this line. Although I have handled pigeons nearly all my life, still it was not with the object of marketing squabs. There is but little doubt, however, of its paying any one who starts right and learns as he goes. A regular pigeon loft is a necessity, with conveniences for caring for and feeding the old ones so they will breed early in the season, for it is the early market that pays best in all such lines of work. The care of the little ones falls entirely on the parent stock and they will do it to a nicety if their own healthful condition is seen to first. In this respect the reader will see that it is a far different proposition than that of raising broilers, because in that case the attendant is the adopted parent of the chick. Not so in squab raising; the parent stock keeps entire charge and if their health is seen to at all times they will turn out some nice, plump little fellows and you will have a crop to sell about every two weeks. As to the demand, there need be no fear of that, as in most any locality the shipping facilities are so good that the squabs can be got to market in short order. The raising of squabs has no competition from cold storage stock. They are not put in cold storage, but are only sold fresh. Prices vary at different points but the demand always stimulates a good price, so that to anyone who will study up and get all information possible and only advance as they get experience, there need be no fear of its paying possibilities. I earnestly request all readers to be liberal with all the experience they have at hand.

C. E. Matteson.

F. B. Mumford, dean of the Missouri College of Agriculture, says that it is

cheaper to rent land than to own it. It is true that \$50 land can be rented for \$2 an acre, which is only 4 per cent, leaving the owner the taxes to pay. And yet a scientific renter would soon go to \$100 an acre and the rent be raised to \$4 an acre. There's where the farmer would lose and lose badly by not owning his farm before he began making two blades grow, says the Kansas City Star.

In sections where the soil is rather heavy many of the best farmers are plowing their cornstalk ground for small grain instead of disking, claiming that a disked seed bed will pack too solid when heavy rains come soon after the work is done, there own experience is, of course, their best teacher.

POINTERS.

—Read the advertisement of Mrs. C. F. McLochlin, of Gray, Iowa, on page 27.

—Mrs. Sarah F. McKee, of Sac City, Iowa, has a few Black Langshan cockerels for sale. See advertisement on page 26.

—Mr. T. P. Overton, of Tracy, Iowa, is advertising Indian Runner duck eggs for sale in his advertisement on page 26 of this issue.

—Silver Laced Wyandotte eggs can be secured from Mr. E. W. Ballard, of Newton, Iowa, as per advertisement on page 26 of this paper.

—Read the advertisement appearing on page 27, of Mr. A. G. Birdsall, of Perry, Iowa, if wanting Single Comb Rhode Island Red eggs.

—Mr. J. A. Penn, of Alta, Iowa, quotes prices on Barred Plymouth Rock and Single Comb Brown Leghorn eggs in his advertisement on page 27.

—Mrs. Sidney Hunt, of Earlville, Iowa, can furnish Homestead readers with Barred Plymouth Rock eggs at prices stated in her advertisement on page 27.

—Eggs from choice White Wyandotte stock, which Mr. W. B. Danforth, of Little Cedar, Iowa, breeds exclusively, can be found quoted in his advertisement on page 26.

—Mrs. Henry Queckborner, of Chadwick, Ill., can furnish Homestead readers with Single Comb Brown Leghorn eggs at prices named in her advertisement found on page 26.

—Mr. John C. Miller, of Harlan, Iowa, can furnish Homestead readers with Single Comb White Leghorn and White Holland turkey eggs. See his advertisement on page 27.

—Mrs. J. C. Anderson, of Oskaloosa, Iowa, has a fine lot of Buff Plymouth Rock fowls and is offering eggs for sale at the very low prices named in her advertisement on page 27.

—Single Comb White Leghorn eggs from a pen, the average score of which is 94 points, are advertised for sale by Mr. Geo. Gaul, of Tipton, Iowa, in his advertisement that appears on page 26.

—Eggs from three pens of high-scoring Single Comb Rhode Island Reds are offered for sale at very moderate prices in the new advertisement of Mr. W. I. Mouser, of Red Oak, Iowa, on page 27 of this issue.

—Mr. J. A. Pease, president of the Iowa State Poultry and Pet Stock Association, of Ft. Dodge, Iowa, has an advertisement on page 26 of this issue offering eggs from Buff and Columbian Wyandottes.

—Mr. Earl Bloom, of Bridgewater, Iowa, announces on page 27 that he is ready to sell Barred Plymouth Rock eggs for hatching. His birds are from pure Bradley stock. Note the prices in his advertisement.

—Mr. F. Bowman, of Eldora, Iowa, announces in an advertisement on page 26 that he is ready to sell eggs for hatching from Rose Comb Brown Leghorns exclusively, at the rate of \$3.50 per 100. He can also supply duck eggs.

—In an advertisement on page 27 Mr. Robt. H. Kerndt, of Lansing, Iowa, announces that he is selling eggs for hatching from Barred Plymouth Rocks and Single Comb Brown Leghorns. The prices which he quotes are very attractive.

—Mr. Frank Rafoth, of Earlville, Iowa, can furnish Homestead readers with Single Comb Buff Orpington eggs for hatching from extra good layers of fine color and first class in every respect. His advertisement appears on page 26.

—The attention of our readers is called to the advertisement of Mrs. F. O. Racine, of Shenandoah, Iowa, on page 26. She breeds Single Comb Brown Leghorns and offers eggs for hatching at the low rate of fifteen for \$1 or \$4 per 100.

—Mrs. Ella Tharp, of Mt. Sterling, Iowa, has been a breeder of Rose Comb Brown Leghorns for the past seventeen years. She is prepared this season to furnish eggs that for quality are not surpassed. Read her advertisement on page 26 of this issue.

—Messrs. W. M. Shaw & Co., of Monroe, Iowa, proprietors of the Premium Poultry Yards, breeders of White Plymouth Rocks, White Holland and Bronze turkeys, Toulouse and Embden geese, etc., write that they have sold all their stock and are now ready to supply Homestead readers with eggs of their different varieties. All their prize winners of the past season are being used in their flock. Nearly every male is a prize winner. Among the large num-

ber of prizes they won the past season was five firsts and six seconds on four-teen entries at the last Iowa State Fair. Write them, mentioning The Homestead. See page 27.

—Mr. J. T. Nicholson, breeder of Single Comb Rhode Island Reds, of Bellevue, Iowa, in furnishing copy for his advertisement found on page 27 of The Homestead, writes that his stock is all sold and that he is now prepared to furnish eggs at the prices named.

—Mrs. James H. Allen, of New Sharon, Iowa, announces on page 26 that she is now ready to sell eggs for hatching from Black Langshans at the rate of fifteen for \$1 or \$4.50 per 100. These eggs are from high-scoring birds. She guarantees safe delivery and satisfactory hatches.

—Mr. J. B. Tracy, of Greene, Iowa, breeds the Fishel strain of White Plymouth Rocks, keeping the one breed only, and advertises on page 27 that he has eggs for sale. He makes an unusual guarantee of nine chicks from each sitting or replaces the eggs at one-half the first cost.

—Buyers of Single Comb Brown Leghorn eggs for hatching will be interested in the advertisement of Mr. Fred D. Fouser, of Beaconsfield, Iowa, as it appears on page 26. Mr. Fouser is offering eggs at the rate of seventy-five cents per sitting and still further reduced prices for incubator lots.

—Mr. Dan McCarty, of Winthrop, Iowa, in sending change for his Single Comb Buff Orpington egg advertisement, found on page 26, writes that he has had a good trade in cockerels and that he already has several orders booked for eggs. The Homestead has been the means of securing all of his orders.

—Prices on Single Comb Brown Leghorn eggs will be found in the advertisement of Mr. J. E. McCarthy, of Enfield, Ill., appearing on page 26 of this issue. Mr. McCarthy's flock has farm range and he states that he has developed a strain of vigorous layers. He will make prompt shipments on receipt of orders.

—Mrs. Will Michael, of Selma, Iowa, whose advertisement of poultry and eggs has been prominent in that department of this paper, writes under recent date saying: "I have had good results from my advertisement in The Homestead and was practically sold out in December. I sold 540 birds and at better prices than ever before. I have better stock than ever from which to offer eggs. My pens include some first and second-prize winners at the state and Eldon shows of 1908 and

1909. These score up to 94½ points. They are great egg producers. We get eggs every day in the year and guarantee high fertility."

—Mr. Chas. L. Berry, of Iowa City, Iowa, who breeds White Plymouth Rock and Single Comb White Leghorn poultry, announces on page 27 that he has eggs for sale from these two varieties. He is making extraordinarily low prices. His birds are large boned, snow white and prize winners. He solicits a trial order.

The Wisconsin incubators and brooders are advertised on page 25 of last week's issue. The offering of an incubator and brooder for \$10 and freight prepaid to any point east of the Rocky mountains ought to attract attention and be convincing proof of the merits of the Wisconsin. Mr. Thos. J. Collier, manager of the Wisconsin Incubator Co., not only makes low prices, but he guarantees his machine for five years, and that after a thirty days' free trial. This gives an opportunity to make a hatch and learn all about the machine, and if it should not fulfil all promises



it can be returned at the end of the thirty days and the freight will be paid by the Wisconsin Incubator Co. Mr. Collier believes that his 1910 incubators and brooders are 50 per cent better than ever before. This is a pretty strong statement, for testimonials from previous users have been of a most gratifying character. Mr. Gordon C. Larkin, a fireman, of Pine Bluff, Ark., bought a Wisconsin incubator and from his first hatch got over ninety Single Comb White Leghorn chickens. He is loud in his recommendations of the Wisconsin. A picture of this hatch appears herewith. We might continue and give hundreds of other testimonials, but for these we must refer our readers to a copy of

Sam Thompson Wants Every Reader of This Paper To Try His New

Fairfield Incubator

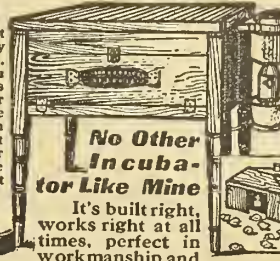
For 2 Hatch Trial

FREE

Don't Kill The Hen That Lays The Golden Egg
By setting her to hatching chicks. You can't afford it. Keep your hens busy laying and let the Fairfield Incubator and Brooder hatch and raise your chicks for you. They will do it a lot better, easier and cheaper. The Fairfield never leaves the nest in the middle of the hatch like your hens and some inferior incubators do. It's the world's best hatcher—my customers say so. Let me prove it to you at my risk.

I Want You To Try My Incubator Two Hatches FREE

Try the Fairfield first before you buy any other style or make. You can do it if you wish for two hatches free at my risk, in your own home with the money in your own pocket. It's the safest way to test out an incubator. The sure way to get what you want.



No Other Incubator Like Mine

It's built right, works right at all times, perfect in workmanship and

best quality of material. The Fairfield is made out of California Redwood. Copper steam and water patented heating system. Perfect regulator. Best lamp in any incubator made. Large roomy nursery and egg chamber. Double doors. Unobstructed top. In every way as good an incubator as you can buy at any price. Our direct-to-you-price saves you one-third to one-half. Write for catalog and special offer.

Don't Buy Until You Get My Catalog—Special Proposition

It will solve the incubator problem for you and will save you trouble and worry in the future. Will give you bigger hatches and stronger chicks than any incubator made. It's absolutely guaranteed and just the machine you need.

SAM THOMPSON, PRESIDENT, NEBRASKA INCUBATOR COMPANY
127 Main Street, FAIRFIELD, NEB.

Strongest Built, Best Looking, Easiest Operating, Biggest Hatching Incubator in The World

That's what my customers call it. Their experience has proven it to be all that for them and you too. Now isn't that the kind of incubator you want in your poultry business? Just let me send you a Fairfield to try for two full hatches free in your own home. I guarantee it to give you bigger hatches and better chicks than any other incubator made, or your money back and I will pay the freight. You can't beat this offer anywhere. You can't beat the Fairfield Incubators and Brooders at any price. Let me prove it to you at my risk. Write for catalog and special free trial offer today.

Cut Out Coupon Today Sure

Fill it out and mail it at once. It will bring you my new catalog and Poultry Book FREE and my special free proposition that beats anything you ever had.

Sam Thompson, Pres., Nebraska Incubator Co., 127 Main Street, Fairfield, Nebraska.
Dear Sir:—Kindly send me your free catalog and poultry book; also your free trial offer on your Fairfield Incubator.

Name..... Town..... State..... R. R.

the free catalog which may be had by writing to the Wisconsin Incubator Company, Box 105, Racine, Wis.

—Mrs. J. W. Lowe, of Clarksville, Iowa, wishes readers of The Homestead to send her their orders for eggs from choice Silver Laced Wyandottes. Her advertisement appears on this page.

—Mrs. S. E. Newell, of Audubon, Iowa, breeds Black Langshans, White Langshans, Single Comb Buff Orpingtons, Rose Comb Rhode Island Reds, White Brahmas and Mammoth Bronze turkeys. She is offering both eggs and stock for sale and advises us that she has some excellent birds that are sure to please her customers. See page 27.

—Mr. F. D. Miner, of Hazleton, Iowa, has extensive poultry yards from which he is now supplying eggs for hatching. He keeps, on his Rainbow Poultry Farm, Single Comb Rhode Island Reds, Single Comb White Leghorns, Single Comb White Orpingtons and Partridge Wyandottes. He would be glad to send his 1910 mating list to anyone interested.

—Mrs. Wilson McIntyre, of Red Oak, Iowa, is offering eggs for sale from high-scoring Single Comb White Leghorns. One of her pens is headed by a cockerel sired by one of Mr. N. P. Easling's cockerels which was one of his Chicago winners. If wishing eggs of this variety see advertisement on this page and send for circular, mentioning The Homestead.

—Mrs. E. C. Turner, of Griswold, Iowa, breeds White Plymouth Rocks exclusively and is offering eggs for hatching. She writes us that buyers have received excellent hatches from eggs purchased from her yards. Her patrons who last year bought eggs in May said they raised fine, large cockerels and pullets from them. Read her advertisement on page 27.

—Mrs. J. C. Kessler, of Oskaloosa, Iowa, whose advertisement appears on page 27, in furnishing copy for same, writes: "I have a fine flock of Single Comb Rhode Island Reds. The eggs are hatching ninety out of 100; the little chicks are nice and strong. The Embden geese are very large, the ganders weighing fifteen pounds at nine months. My ducks are very nice White Pekin."

—Mr. F. H. Eckert, of Charter Oak, Iowa, in furnishing copy for his advertisement offering White Plymouth Rock eggs for sale, found on page 27 of this issue, writes: "I have mated three pens of White Rocks that will produce winners, all my prize birds being in these pens. Others are equally as good and even better. Male birds score 94½ points, females to 96. Sure some quality."

—Mr. Albert Foster, breeder of Barred Plymouth Rocks, at Russell, Iowa, advertises on page 27 that he is now ready to sell eggs from eight grand matings of pure Bradley birds. Mr. Foster writes concerning these birds as follows: "In offering eggs to the public this season we feel that we are giving better value for the money than ever before, while our prices remain the same. We have secured some exceptionally fine birds."

—Mr. J. W. Wagner, of Monroe, Iowa, in sending copy for advertisement found on page 27, writes: "I have the finest flock of Barred Plymouth Rocks this year I have ever had to furnish eggs from. At Central Iowa Show, December 13 to 16, 1909, Russell, judge, I won first, second, third and fifth on pullet, first on cocker, second on hen, third and fifth on cockerel, first on pen, silver cup for best-colored female, silver cup for best pen, special cash prize for highest-scoring ten. These were all bred and raised by me."

—Mrs. H. E. Brown, of Corning, Iowa, is advertising Barred Plymouth Rock eggs for sale in her advertisement on page 27. In sending in copy she writes: "I have been breeding Barred and White Rocks for a number of years and now have a good flock of free range birds. I have such stock in Barred Rocks as Bradley Bros. and in White Rocks as Fishel and other good strains. I have exhibited at shows and have won many prizes on my stock. My prices on eggs are very reasonable, compared with the quality of my birds."

—Our readers who want to buy eggs for hatching from either Rose Comb White Leghorns or Black Langshans should examine the advertisements, in the different departments, of Mrs. Geo. Tutt, of Marathon, Iowa. She writes us that her White Leghorns are snow white, good layers and healthy, vigorous stock. Her Langshans are of the great, big kind and she thinks them the best flock she has ever owned, although she has raised the breed for fourteen years. They have been prominent at the shows and have captured their share of the premiums. See this page.

—We call the attention of our readers to the advertisement of Messrs. C. & C. T. Van Lint, of Pella, Iowa, which appears on page 27. These gentlemen make a specialty of Buff Plymouth Rocks and they have been so successful in the production of high-quality birds that they have won the highest honors at leading poultry shows. At the late Iowa State Show, at Des Moines, they showed five birds of their own raising and were awarded first on cockerel, first on pen and fifth on pullet. At the Monroe Poultry Show, with five birds, they won first on cockerel; first, second, third and fourth on pullet; first on pen and special for best Buff colored bird in the show, any variety. At the Pella Poultry Show they won first, second, third and fourth on cockerel; first, second, third and fourth on pullet; first and second on pens, and the American Poultry Association grand prize silver medal for best cockerel in show. These gentlemen breed birds for utility as well as for show. Farmers will find the Buff

Plymouth Rocks to be as close to the standard of the popular farm fowl as can well be obtained. The Messrs. Van Lint have expended a great deal of money in the foundation of their flocks and they are now able to supply eggs and birds of unexcelled character.

—Mr. Arlie Toom, of Pella, Iowa, announces in an advertisement on this page that he is now ready to sell eggs from Single Comb White Leghorns at the very low price of \$1.50 for fifteen, express prepaid. Mr. Toom makes a specialty of this breed, handling no other, and giving them the range of the farm. They are, therefore, healthy, thrifty and in the very best of condition. He has procured his stock from the best flocks and sends out eggs from only strictly good birds. Orders should be forwarded promptly in order to avoid any possibility of delay.

—Mr. Reuben E. Sanders, of Montezuma, Iowa, has been a breeder of Barred Plymouth Rocks for a number of years. He has also made his regular announcements in The Homestead, offering eggs and stock for sale from Hawkins, Felch and Thompson strains. His advertisement appears for the first time this season on page 27. It will be to the interest of any of our readers desiring eggs from any of the above strains of Barred Plymouth Rocks to read same and write to Mr. Sanders for a catalog, which will be sent free. He mates his pens by standard rules and will guarantee fertility.

—Mr. C. W. Kellogg, of Knierim, Iowa, breeds Single Comb Rhode Island Reds exclusively and writes concerning them as follows: "A pen of twelve of our pullets made an average of nineteen eggs each during February, 1910. Those wishing to purchase eggs will do well to remit cash with order and should we be unable to fill orders when desired, the money will be returned. The cockerels at the head of our pens score 93½ to 94½. Pullets and hens are unscored, but are free from smut, and they have fine wing markings and body color. They are large, healthy birds throughout. You may say that my birds are pure Single Comb Rhode Island Reds, as well bred as years of care and careful selection can make them. See page 27.

Moisture in Incubation.
The Root Incubator Company have published a book entitled "The Truth About the Moisture Problem," which contains facts of interest to every poultry raiser. It discusses fully the question of moisture in an incubator and may be had free of charge by sending a postal card request to the Root Incubator Company, Box 26, Cleveland, Ohio.

Single Comb Brown Leghorn Eggs.
On page 27 of this week's Homestead will be found the advertisement of Mr. H. Fessenmeyer, of Clarinda, Iowa, who offers Single Comb Brown Leghorn eggs from the largest and best-laying strains at seventy-five cents per fifteen, or he can furnish incubator hatches on short notice at \$4 per 100. He also offers Barred Plymouth Rock eggs from the celebrated Ringlet strain at \$1 for fifteen or \$4.50 per 100. Send him your orders at once and mention The Homestead.

Barred Plymouth Rock Eggs Cheap.
In a recent letter from Mr. J. C. Hardman, of Brayton, Iowa, he says: "I am offering Barred Plymouth Rock eggs for sale from the very best breeding stock at \$1 for thirteen or six sittings for \$5. I furnish baskets free with every shipment. You can just say to your Homestead readers that they will get a square deal from Hardman and if they want some good Barred Plymouth Rock eggs to just send me their order as soon as possible." Kindly mention The Homestead when writing. See page 27.

Neubert's Annual Poultry Book.
Among the professional poultry men who have gained reputation and profit, Mr. R. F. Neubert, of Mankato, Minn., stands as a shining example. He has one of the largest of poultry farms and it is devoted to the production of nearly half a hundred breeds of chickens, ducks, geese and turkeys. All these are fully described in his annual poultry book, which is advertised on page 27 of this paper. The book, by the way, while it advertises the different breeds of fowls Mr. Neubert has for sale, is a valuable addition to any library because of the immense amount of real poultry information which it contains. It may be had by sending four cents, to pay the postage, to Mr. R. F. Neubert, Box 807, Mankato, Minn.

DOGS.

A Grand Litter of Collies ready to ship; one whelped February 2d; also fine female eight months old. Two fine broken Fox Terrier females, \$10 each. C. H. Drake, Hazleton, Iowa.

SCOTCH Collie pups, sable, black and white, over two months old, from trained parents; eligible males, \$5; females, \$7. F. Bollman, Wall Lake, Ia.

FOR SALE—SCOTCH COLLIE PUPS Male, \$5; female, \$3. W. L. Bonnett, Birmingham, Ia.

For Sale Pedigreed Scotch Collie puppies; natural heelers and prices reasonable. Pedigrees furnished. Raymond Peterson, R. 1, Garwin, Iowa.

FOX TERRIERS—king of the rat terriers. Puppies and grown stock for sale. Few choice S. C. Red cockerels. Address Sabot Kennels, Pella, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS**, Cumming, Iowa.

PIGEONS.

Homer Pigeons mated birds and breeders from \$1 to \$1.50 per pair. Photo free. Address J. W. HOPSON, BEDFORD, IOWA.

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$5; 200 for \$9.

T. A. DAVENPORT, BELMOND, IOWA.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1; 30, \$3; 100, \$5, 200, \$9.

R. R. STEWART, Rt. 2, Charles City, Iowa.

"MONEY IN EGGS"

S. C. Brown Leghorns—My method and farm S. range has developed layers with vigor. My eggs produce layers. One-third fancier's price and better layers, \$1.50 per 30; \$3 per 60; \$4 per 100; \$6 per 200. Prompt shipment. J. E. McCarthy, Enfield, Ill.

S. C. Brown Leghorns Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

Single Comb White Leghorns

BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketcham, Box 300, Booneville, Ind.

Rose Comb Brown Leghorns Bred 17 years exclusively for quality and eggs. None better regardless of price. 20 eggs \$1; 50, \$2.50; 100, \$4; 200, \$7. Good cks. 6 for \$5. **ELLA THARP**, Mt. Sterling, Iowa.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5. 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. Sunny Slope Poultry Yards, Oskaloosa, Iowa.

ROSE COMB Brown Leghorns exclusively. High-scoring and high-class utility stock. Eggs for hatching, \$1 for 15; \$4 for 100. Address, **E. G. Roberts**, Route 2, Afton, Iowa.

Rose Comb Brown Leghorns; prize-winning cockerels for sale. Also eggs in their season. For prices address Mrs. E. L. Claypool, Spencer, Ia.

Rose Comb White Leghorn eggs for hatching; 15 for \$1; 30 for \$1.75; or 100 at \$4. Address **F. A. HAM**, Saronville, Nebraska.

S. C. W. Leghorn eggs; first pen headed by chl. direct from Young. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

R. C. B. Leghorn eggs, Kulp's strain; bred for quality; egg production; standard shape; color; eggs, 50, \$2.50; 100, \$4. Mrs. L. W. Renaud, Bondurant, Ia.

SINGLE COMB WHITE LEGHORNS. Eggs, 15 for \$1.25, 50 per 100. S. C. Rhode Island Red eggs, 15 for \$1.50. Star Poultry Farm, Eddyville, Ia.

Rose Comb Brown Leghorn eggs all season. A few fine cockerels left from high-scoring stock. Address **Eva D. Tutt**, Alta, Iowa.

S. C. Brown Leghorn Eggs Two sittings, \$2; express prepaid. Address **Nellie Cahow**, Greenfield, Iowa.

Rose Comb Brown Leghorn Eggs at 75c. per 15 or \$3.50 per 100. Mrs. John Roskamp, Kanawha, Iowa.

SINGLE COMB BROWN Leghorn eggs, \$1 for 15; \$4 for 100. Mrs. F. O. Racine, Route 5, Shenandoah, Iowa.

S. C. W. Leghorn Wyckoff strain of eggs, \$1.50 and \$3 per 15. Day old chicks. Send for circular. Mrs. Wilson McIntyre, Red Oak, Iowa. Route 6.

S. C. W. LEGHORNS The bred-to-lay strain. Pen scoring 94. 15 eggs \$1. Farm flock \$3.50, 100. **Geo. Gaul**, Tipton, Ia.

S. C. Brown Leghorns, good stock and great laying strain. Eggs \$1 per 30; \$3 per 100. Mrs. Henry Queckborner, R. 2, Chadwick, Ill.

Single Comb White Leghorns. Eggs from choice matings, \$1.50 for 15, express prepaid. Address, **ARLIE TOOM**, Pella, Iowa.

S. C. B. Leghorn eggs for hatching, 75c. per 15; at reduced rates on incubator lots. **FRED D. FOUSSER**, Beaconsfield, Ia.

Rose Comb Brown Leghorns exclusively. Eggs for hatching, \$3.50, 100. Also Rouen duck eggs. Write **F. Bowman**, R. 6, Eldora, Ia.

Rose Comb White Leghorn 219 egg strain, snow white. Many will score 96. \$1.50, 15; \$2.50, 30. Mrs. Geo. Tutt, Marathon, Iowa.

LANGSHANS.

BLACK LANGSHAN EGGS FOR SALE

FROM high-scoring birds, 15 for \$1; 100 for \$4.50. Safe delivery and satisfaction guaranteed. **MRS. JAS. H. ALLEN**, New Sharon, Ia.

BLACK LANGSHANS

BRED exclusively for 16 years. There is none better and I guarantee satisfaction. Eggs for hatching \$1.50 for 15 or 30 for \$2.50. Remember that the best are the cheapest. **O. H. Stillson**, Corwith, Ia.

Prize-Winning B. Langshans exclusively, scoring to 94½ at Dubuque by Lambert. Eggs, 13, 5c.; 26, \$1.50; 100, \$4.50. W. W. Baskerville, Earlville, Ia.

BLACK Langshan cockerels—A few more to sell at \$1 each from high-scoring stock. Eggs in season. Address Mrs. Sarah F. McKeen, Sac City, Ia.

BLACK LANGSHAN Eggs for sale from large thrifty birds, farm range, \$1.00 per 15; \$4.00 per 100. Address, **J. H. Rayl**, Afton, Iowa.

Black Langshan eggs, 20, \$1; \$1.50, 100. Large birds; hens 10 lbs., cks. 12, many scoring 95. Mrs. Geo. Tutt, Marathon, Ia.

BRAHMAS.

Ottumwa Poultry Yards—Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

EGGS from massive Brahmas, \$2.75 per sitting. Not sold per 100. Good hatch guaranteed. Address, **George Taylor**, Barnes City, Iowa.

TURKEYS.

M. B. Turkey toms scoring 93 to 95½, \$6 to \$10; good bronzing, markings and weight. White Rock cks. Sterling Martin, Melrose, Iowa.

WYANDOTTES.

EGGS EGGS

From My Great Laying Strain White Wyandottes AT \$1.50 per 15; \$7.50 per 105. Order at once and have me ship eggs later. In my strain of White Wyandottes there is great laying and fancy quality combined. I also have for sale 2 fine pens of 9 birds each mated up for grand results. Write me quick for price if you want one of these beautiful pens. **S. HARR, RIVERSIDE, IA.**

WHITE WYANDOTTE EGGS

FROM stock scoring 93 to 96 by Russell; many of them first-prize winners. From best pens, \$3 for 15; \$5 for 30. Range, \$1.50 for 15; \$5 for 105. Guarantee fertility and safe delivery.

GEO. W. LIVINGSTON, MONROE, IOWA.

Buff Wyandottes and Columbian Wyandottes

BUFF won 4 firsts out of 5 at Iowa State show. **Columbians** won 1-2-3-5 cockerel; 1-2-3 hen; 1-2-3 pullet. 1-2 pen, stock and eggs. Start right with an egg-laying strain. Order eggs now. **J. A. PEASE**, Ft. Dodge, Ia., Breeder.

WYANDOTTES

White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, I. S. Fair, '09. **A. L. Anderson**, Indianola, Ia.

WHITE Wyandottes of quality. This proves it. Have won 13 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank, J. M. Erickson, Slater, Ia.

SILVER WYANDOTTES

Eggs, 15 for \$1; 45 for \$2.50; 100 for \$5. Twenty-three years a breeder. **O. M. Hraly**, Bedford, Iowa.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; baryard flock; price \$1 to \$3.15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

White Wyandottes Fine large vigorous blocky birds. Farm range eggs for hatching, 15 for \$1.25, 30 for \$2.25, 50 for \$3.50, 100 for \$6.00. Mrs. C. A. Robinson, Griswold, Iowa.

WHITE WYANDOTTE EGGS

\$1, 15; \$4.50, 100. **Eber Anderson**, R. 1, Minden, Neb.

Silver Laced Wyandotte eggs, \$1.25 per 15 eggs; \$3 per 50; incubator lots, \$5 per 100. **E. W. BALLARD**, Newton, Iowa.

MAPLE LAWN Poultry Farm. White Wyandottes. Eggs for hatching. Excellent winter layers. Farm range \$5, 100. Mrs. C. W. Bryant, Orchard, Ia.

White Wyandottes exclusively. Eggs from choice stock, \$1 per 100. Address, **W. B. Danforth**, Little Cedar, Iowa.

Buff Wyandottes I have a few good cockerels for sale. Address **Mrs. Grant Davidson**, R. 5, Scranton, Iowa.

Buff Wyandotte Eggs from choice, selected stock. Incubator orders filled on short notice. **Geo. M. Deyoe**, Mason City, Iowa.

DUSTON WHITE WYANDOTTE EGGS exclusively, \$1 per 15; \$4 per 100. Blocky stay, white kind. Address, Mrs. F. O. Elliot, Kent, Iowa.

Silver Laced Wyandottes Exclusively. Eggs from selected stock \$1 per 15. A few good cks. left. **Dr. D. C. Garner**, Mingo, Ia.

COLUMBIAN Wyandotte stock for sale. Eggs \$2, 15; baby chicks 20c. each. All birds in my breeding pen score 91½ to 93. **Jacob Gerig**, Noble, Ia.

WHITE Wyandotte eggs for hatching, from farm range, \$4 per hundred; 75c. per 15. Satisfaction guaranteed. Mrs. J. W. Kiesling, R. 6, Creston, Ia.

SILVER LACED Wyandotte eggs and a few good pullets and cockerels for sale. Mrs. J. W. Lowe, Clarksville, Iowa.

White Wyandotte Eggs \$3.00, \$1.50, 75 cents per 15. Circular free. **Otto Peterson, Jr.**, Axtell, Nebraska.

BUFF WYANDOTTE FREE CATALOG. State winners. Eggs \$2.00 and \$3.00 per 15. **J. S. Watson**, Vail, Iowa.

ORPINGTONS.

S. C. BUFF ORPINGTON and Buff Rocks, also Light Brahmas, scoring 92 to 94, best of matings, all birds are high-scoring. Eggs \$3 for 15, half price after June 1st. Prices quoted on 100 lots. **I. E. MINER**, BUSSEY, IOWA.

S. C. White Orpington Eggs For hatching, from stock bred to lay; \$1.50 per 15; \$2.50 per 30; \$7 per 100. **M. W. Cronk**, 2243 Des Moines St., Des Moines, Ia.

BUFF White and Jubilee Orpingtons for sale, including eggs very cheap till May 1st, the time we must move. **P. N. Dunn**, Humboldt, Iowa.

SINGLE Comb Buff, Black, White and R. C. White. Scored cks. Scientifically mated breeders. Eggs. Baby chicks, mating list. **Dr. Evans**, LeGrand, Ia.

S. C. BUFF ORPINGTONS Cook strain direct. per hundred. **B. S. Long**, Little Sioux, Iowa.

ORPINGTONS, S. C. Buff. A fine stock. Farm raised. Eggs 15, \$1.50; 30, \$2.00; 50, \$3.00; 100 \$5. Address, **Dan McCarty**, Winthrop, Iowa.

Buff Orpington Eggs from prize-winning birds, \$1.50 to \$3 per 15; also orders booked for baby chicks. Mrs. O. A. Mace, Bedford, Ia.

ORPINGTONS (Buff). Greatest winter-laying hens in the world. Eggs for sale. Free catalog. **Prewitt**, R. 5, Osawa, Iowa.

S. C. Buff Orpingtons Eggs for hatching; \$1.50, 15; \$7, 100. Fertile eggs guaranteed. **Frank Ratoth**, Earlville, Iowa.

DUCKS.

Indian Runner Duck Eggs for Sale 9, \$1; 100, \$7. Write **T. P. OVERTON**, Tracy, Ia.

INDIAN Runner ducks; imported stock. Orders booked for eggs at \$2 per 15. Pure fawn and white. **F. L. Reinhard & Son**, Ottumwa, Iowa.

MINORCAS.

S. C. BLACK MINORCAS EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. **Nick Loewen**, Lawler Poultry Yards, Lawler, Ia.

PLYMOUTH ROCKS.

We are now ready to furnish EGGS from the

Quality Strain Barred Rocks

THAT have been carefully bred both for fancy and utility, at \$1.50 per 15; \$2.50 per 30; \$3.75 per 45. Prices on eggs from exhibition matings sent upon request as we have not issued a Mating List.

C. C. DRAKE & SONS, Drawer Y, LA HARPE, ILL.

BARRED PLYMOUTH ROCKS

COCKEREL pens headed by first-prize winner at Des Moines Poultry Show, 1908, and birds of equal merit. Females consist of pullets bred by the State Fair first-prize cockerel and the hens that produced them. Pullet pens are Blue Belle strain, and contain first-prize hen, State Fair, 1908; second-prize hen and pullet, Des Moines Poultry Show, 1908. Eggs, special pens, \$3 for 15; others, \$2.25 for 15. E. M. CATHCART, CHARTER OAK, IA.

219 Egg Strain Barred P. Rocks

THEY win and lay and pay their town way. They have for Hartman and can for you. Eggs for hatching from all pens \$1.50 for 15, \$2.50 for 30, \$3.50 for 45 and \$6.00 for 100. Special pen \$3.00 for 15, \$5.00 for 30, and \$8.00 for 100. W. A. HARTMAN, Box 242, Winterset, Iowa.



Barred Plymouth Rock Eggs

FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weigh 10 to 12 lbs.; Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guarantee good hatch and safe delivery. Catalog free. S. V. LATCHAM, MONTEZUMA, IOWA.

BARRED ROCK EGGS

FROM extra fine hens mated with the males I had in my pens last season. Scored from 91% to 92% by Russell and Southard. Send for a true-to-life photo. Eggs \$1.15. Eggs from pens \$5 per 15. Address J. W. HOPSON, BEDFORD, IOWA.

Eggs For Hatching

FROM farm range stock; Barred Plymouth Rock, Buff Plymouth Rock and Single Comb Brown Leghorn. Prices reasonable. Circular free. C. E. MATTESON, Pewaukee, Wisconsin.

CLOSING-OUT SALE

of B.P. Rocks; 25 large, well marked, vigorous cockerels; 25 good hens at \$1.25 to \$1.75 each, unsecured; cockerels \$2.50 to \$4.00. Eggs for hatching from five pens. Mrs. Eva Girard, Schleswig, Ia.

Barred Plymouth Rock Eggs

I AM offering choice eggs from the leading strains at \$1 for 13; six sittings for \$5. Write me at once. Address Jno. C. Hardman, Brayton, Iowa.

Barred Rock EGGS

FROM high-scoring, farm-range stock, with heavy bone, small comb and clear, narrow herring. Twelve years' experience; satisfaction guaranteed; pens, \$1.50 per 15; range flock, \$1. Mrs. Chas. Murphy, Dexter, Ia.

EGGS

S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility results and highest fancy attainment. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

Barred P. Rock Eggs

from Blake's improved egg-laying strain. Write for prices and my secret for raising better layers. GEO. F. BLAKE, MAQUOKETA, IOWA.

Barred Rock Eggs.

Utility flock, \$1 for 15, \$5.00 per 100. Pens either cockerel or pullet mating \$2.00 per 15. Mrs. P. L. Carroll, Hampton, Iowa.

BARRED Rock cockerels, bred from carefully selected matings; vigorous, fine, even barring; extra care taken in selecting chicks to suit customers; from \$2 up. Chas. McCaskey, Route 2, Ogden, Iowa.

150 Bradley and Thompson B. P. Rocks

COCKERELS AND PULLETS. Henry Schlatter & Sons, Lawler, Iowa.

WHITE ROCKS

Trap-nested, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up. 15 eggs \$3, \$2 and \$1. Address Rev. James A. Slack - Yorktown, Iowa.

Barred Plymouth Rocks

exclusively. Eggs from high scoring birds. Largest type, best breeding and marking. Bradley strain \$2.00 per 15. Mrs. S. M. Thompson, Birmingham, Iowa.

BUFF ROCK EGGS

From a strain of fine winter layers, \$1.50 per 15; \$4.50 per 50; \$5 per 100. L. L. Woods, Grinnell, Iowa.

BRADLEY STRAIN BARRED ROCKS

Eggs from pens \$1.50 per 15; from flock \$1. Mrs. Geo. Dawdy, Abingdon, Ill.

18 B. P. Rock cockerels; strong, vigorous birds,

with great size and quality, and narrow, deep herring. Some show birds. C. G. Good, Ogden, Ia.

Barred P. Rocks

Eggs for hatching, "Shell-harger strain," both matings, 95%, heavy layers, prices low. Write Martin Johnson, Cambridge, Illinois.

EGGS

From our famous laying strain of White Plymouth Rocks are plentiful and at right prices. Address T. F. Martin, - Maxwell, Iowa.

WHITE Plymouth Rock eggs, \$1 per 15; \$2.50 per 50; \$4 per 100. Will sell a few hens at \$1 each.

Address Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

B. P. ROCKS only. Large boned, well bar., good

layers, high scoring, prize winners, thrifty birds, fair deal. Eggs, \$36, \$1.25; 100, \$3. J. M. Reeder, Earlville, Ia.

BARRED ROCKS

Large, heavy-boned chicks. Eggs in season from prize-winning strain. Frank Sauter, Whitt Cheer, Ia.

Buff Plymouth Rocks and eggs at reasonable

prices. Farm raised, of choice quality. Address Mrs. M. C. Thompson, Route 2, Atlantic, Ia.

White P. Rock Eggs, 15 for \$1.50; 30 for \$2; 100 for \$5;

\$5 for 15; \$2.50 per 50. Indian Runner duck eggs, \$1.50 per 15. Address H. C. Newbury, Bristow, Iowa.

PLYMOUTH ROCKS.

Hawkins', Felch's and Thompson's

LINE BRED Barred Plymouth Rocks; 1st premium won wherever shown. Yards headed by high scoring exhibition cockerels. Every male bird used in 1909, and for past ten years we bought from A. C. Hawkins' and E. B. Thompson's Madison Square Garden prize-winning pen and I. K. Felch's reserved pens, and sell 18 eggs for \$1; 40 for \$2; 100 for \$4.50. This year we paid Thompson \$11.75 for one cockerel. They are an unbroken line of prize winners, highly standard and above 1 mate them by standard rules. Fertility guaranteed. I am an expert caponizer. Catalog free.

REUBEN E. SANDERS, MONTEZUMA, IA.

EGGS

from 8 grand matings, pure Bradley. The males heading our yards are large, very dark, close barred and to the skin in all sections, and score from 92 to 93. Hens mated with them are fully as good. \$3 to \$5 per sitting. Utility flock, cockerel bred, \$5 per 100. Circular free. ALBERT A. FOSTER, RUSSELL, IOWA.

B. P. ROCK

Eggs for sale from extra large-boned, nicely-marked stock; yards headed by cocks and cockerels scoring 90 to 92%; weighing 11 to 13 lbs. In five showings, including Central Iowa Show, 1909, Russell, judge, we won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths. 15 eggs, \$1.50; 30, \$2.50; guaranteed fertile. J. W. Wagner, Monroe, Ia.

BARRED PLYMOUTH ROCK EGGS

THOMPSON & Bradley strains from high scoring males and females. Pen A—pullet mating. Pen B—cockerel mating. The very choicest. Address MRS. L. C. REESE, PRESCOTT, IOWA.

BARRED Plymouth Rock eggs for sale. Have

bred barred Plymouth Rocks exclusively on Cedarvale farm for 18 years and make a specialty of furnishing eggs for incubators. Good hatch guaranteed. No better bred stock in the U. S. than here on Cedarvale farm. J. S. Kennedy, Blockton, Ia.

Eggs

B. Rock, \$1 per 15; \$5 per 100. Geese eggs 25c. etc. Also some geese yet or sale, both sexes. Letters from satisfied customers, not one complaint. MRS. J. COCKERTON, Whiting, Iowa.

GRAY'S

Barred Plymouth Rock Eggs for sale from 50c. to \$5.00 per sitting of 15 eggs. Incubator eggs \$3.00 per 100. Write for my free egg circular. J. H. Cray, Wellman, Iowa.

Eckert White Rocks

were winners at Manning and Sioux City shows, scoring to 96. Eggs from grand pens, \$3 per 15. F. H. ECKERT, Charter Oak, Iowa.

Buff Rocks

The ideal farmer's fowl—winners highest awards Iowa State and other leading shows this season. Stock and eggs for sale. C. & C. T. VAN LINT, Pella, Iowa.

BUFF Rock Eggs for sale; \$1 per 15; \$4.00 per 100.

My birds are large with good shape and color, farm raised. Mrs. J. C. Anderson, Oskaloosa, Iowa.

White Rock

Eggs, Fishel strain, pure white \$1.00 for 15; \$5.00 per 100. Mrs. Melvin Baird, Red Oak, Iowa. R. S.

BARRED P. Rocks exclusively, large bones, good

barring. Farm range eggs for hatching 15, \$1; 30, \$1.50; 100, \$4.00. Mrs. I. S. Battles, Mitchellville, Iowa.

Barred Rock Eggs \$1.50 to \$3 for 15. Blood for

farmer and breeder. Pure Bradley stock, 10 lb. pullets. Earl Bloom, Bridgewater, Ia.

BARRED ROCK EGGS

\$1 per 15; \$5 per 100. Mrs. J. A. Campbell, Manning, Iowa.

Barred Plymouth Rock Eggs

At \$1 for 26, or \$3.25 per 100. Mrs. Sidney Hunt, R. 3, Earlville, Ia.

Martin's

Snow White Rocks, scoring 93% to 95%, \$1.00, 15 eggs. Utility flock \$3.50, 100. Clarence Martin, Clarksville, Iowa.

SMITH'S Buff Rocks. Eggs for hatching from my

choice flock of Buff Rocks; fine layers; 15 eggs, \$1; 100 eggs, \$6. C. F. Smith, Route 5, Griswold, Iowa.

White Plymouth Rock

eggs from scored stock of Fishel strain, \$1 for 15; \$5 for 105. J. B. TRACY, Greene, Iowa.

RHODE ISLAND REDS.

FREE TO CUSTOMERS

TEN CENTS to others. Lesson on color illustrated by feathers. How to mate for best results. Who are fake advertisers. Egg catalog free. Foundation stock from the best eastern and southern strains.

MRS. F. W. MCINTYRE

ROUTE 5. RED OAK, IOWA. "Both Combs" Rhode Island Red Specialist.

Reds—Single and Rose Comb

CHARLES City, 1910; Shanklin, judge. S. C. won first, second pullet, second cockerel, second pen; 4 premiums on 6 entries. Scored range stock eggs, \$5 per 100. Choicest matings, \$2, \$3 and \$5 per 15. Guaranteed good hatch. F. O. Martin, Floyd, Iowa.

S. C. Rhode Island Reds

TOMPKINS STRAIN Write for descriptive circular.

P. H. Thiel, Kenwick, Humboldt Co., Iowa.

S. C. R. I. REDS

BRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. M. Finkenhagen, Ellsworth, Ia.

"Birds That Lay and Pay"

R. C. R. I. Reds exclusively; pen 1, trap-nested, 15 eggs, \$2; pen 2, 15 eggs, \$1.50; incubator lots, \$6 per 100. MRS. CLIFF SAID, Emerson, Ia.

S. C. R. I. Red cockerels for sale; scored and

unsecured. Eggs for sale. Write for prices. Mrs. H. L. Alsop, Sylvia, Iowa.

S. C. Rhode Island Red Eggs

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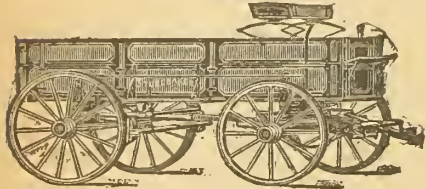
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A Good Permanent Hen House

By Mrs. S. B. Titterington

A CORRESPONDENT from Clintonville, Wis., writes for information on the important subject of building a permanent hen house for 100 fowls and arranging a permanent yard for them. The problem is one which is frequently met with by both amateur and professional fanciers and deserves to be treated at some length. The request for advice is as follows:

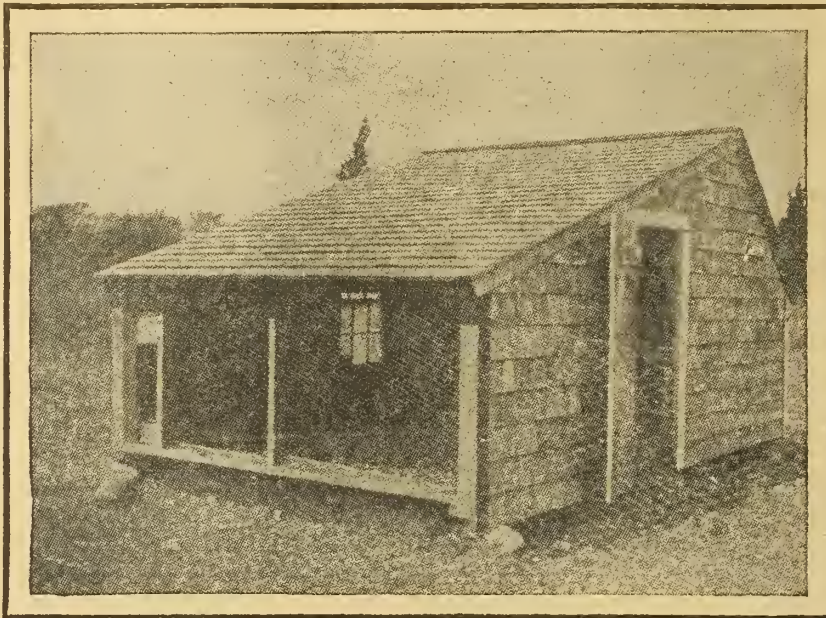
I would like your advice about building a permanent hen house for 100 fowls. I would also like to know how to arrange convenient yards for them. The house must be just as cheap as possible consistent with durability. Plans for portable colony houses would also be appreciated. The hens must be yarded part of the time.

It will not be possible to answer all our correspondent's questions within the limits of a single article. The hen house inquiry touches one of the

sides absolutely tight, it is easy to see that there can be no drafts. The roof should be covered with roofing, the same as the sides. This will render it water proof.

The inventor speaks of the various features of his house as follows:

Many think the house must be hot in summer on account of the long slope of the roof to the south. This is not so. I find it one of the coolest houses in summer I have ever operated. In summer we open the window and door, and these with the open front give a circulation of air that will keep the house cool and comfortable when other houses are hot and close. Those who use the Tolman fresh-air house will find the house very comfortable in winter in comparison with the old-style closed poultry buildings. Dampness never gathers. The walls are always dry, owing to the fact that the front is open at all times. The air is alive and fresh, not dead and foul. There is no chilling dampness, and the fowls enjoy comfortable and invigorating pure air night



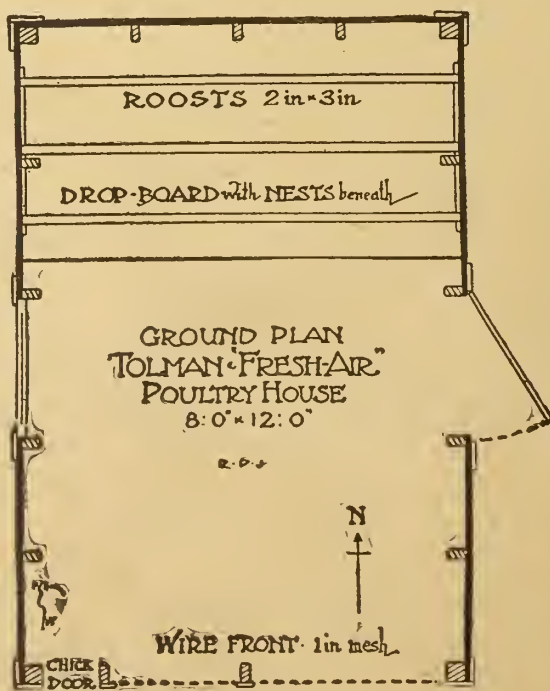
THE TOLMAN FRESH-AIR POULTRY HOUSE.

most vital points in poultry keeping. So much has been said in the columns of this paper in regard to the merits of open houses, that it hardly seems necessary to take up that question. There are too many people who have most thoroughly tested the comparatively new idea, not only in the central and southern portions of our

country, but also in bleak New England, and in the far North and Northwest, to allow of any reasonable doubt of their great value. When to this is added the fact that they are also cheaper to build than the old-style closed houses, their preeminence is assured. There are several types of fresh air houses, but perhaps the most widely used is that commonly known as the Tolman house. The inventor lives in New England, therefore the plan has been tried under severe weather conditions. There are two sizes of the Tolman house. The smaller, also known as the colony poultry house, is 10x16 feet, and is intended to house about forty hens. The larger, fourteen feet wide and twenty-four feet deep, is intended for 100 hens. The idea is to have the south front entirely open, covered with wire netting, from one inch to one-quarter inch mesh, according to the liability of snow blowing in. On the east side a door is placed half way between front and back ends, and exactly opposite on the west side is a window. These are kept tightly closed during the winter, but in summer they are both removed, wire netting taking their place. The long slope of the south roof, as seen in the cut, with extended eaves is a feature which will be appreciated upon use. With three

and day. The litter and earth of the floor remain dry and even get dusty. In the winter of 1906, though the weather was very severe, the water did not seem to freeze any more quickly in these houses than in those of the closed type, although of course water will freeze in any such building when the thermometer hovers about the zero point.

The front of the fresh-air house is never closed. The roosts in the rear of the building being above the level of



the front plate or eaves insures the fowls against exposure to any winds which may blow in at the open front. They are protected at all times from drafts by the tight back, sides and roof. The peak of the roof coming just in front of the roosts insures a banking up of the warm air, the warm produced by the fowls themselves, in such a manner that that portion of the house occupied by the fowls while on the roosts is the warmest part of the building, and this on the coldest nights in winter. In a fresh-air house the open front pre-

vents any accumulation of foul air near the floor.

The large practical house has surely disproved the theory that with large flocks one cannot get good results. I do not believe good results can be obtained with large flocks in closed houses. In this house holding 100 hens my egg-yield has been from 50 to 60 per cent. The fertility is now almost 90 per cent. I have kept six males with 100 females.

The interior arrangement of the house is such that the flock is divided into two parts by a board partition two and a half feet high extending through the center of the house north and south. This partition has a passage-way in the center, allowing the birds to pass from one side of the house to the other at will, and is used simply to divide the flock, and prevent interference of the male birds, thus insuring better fertility.

Roup is practically unknown in these open-front houses. Not only are the fowls more vigorous, but they lay much better, and the fertility is higher than under other conditions.

But it must be borne in mind that it will not answer to put up any sort or shape of a house, leave the south front open, and expect success. The proportions given are the result of careful and repeated experiment, and can be safely followed.

One feature of the Tolman houses is quite interesting. A small opening is made at one corner of the front, so that the fowls can go out or in at pleasure, no matter what the weather. The reports that have been given show that birds housed under these natural conditions seem not to mind changes in temperature, and the egg yield is not affected by the drops in the mercury.

The house is simple in construction. It is a plain, hip-roofed building with a long pitch of the roof to the front or south. The roof and closed sides may be either one-inch boards covered with roofing or tar paper, or shingled, as best suits the builder. Tight roof and walls are indispensable. The eaves are about four feet from the ground, and the peak of the roof is a little over seven feet. The east door and west window have already been described. In the large house, two windows are required. Under the roosts in the rear are dropping boards, and beneath these are the nest boxes. With such a house run wide open in front, night and day, storm or shine, summer and winter, the birds seem happy, healthy, comfortable and profit-bringers.

Many people run this kind of a house successfully without any protection. However, in the blizzard regions of the Northwest, it would seem at least a saving of work to have burlap or muslin curtains so arranged that they may be let down when a severe gale drives the snow into the house. Also, in very low temperatures, a burlap curtain or curtains may be placed so they can be let down at night, thus forming a snug closet for the birds. These curtains should not come below the dropping boards. The walls of the house form two sides of the closet, the burlap curtains making the other two sides. The coarse meshes of the burlap admit air freely, without drafts. These curtains should only be used in exceptionally severe weather. The same should be said of the curtains for the front, which should be so arranged as to be either rolled up, or hung high out of the way in all ordinary weather.

HANDLING DIRTY LAND.

To the Editor of The Homestead:

I will give you my experience in seeding down foul land. I once bought forty acres of old land from a neighbor. He had seeded it all down but fourteen acres. That portion was in oats and I plowed it in the spring and put in corn and had it clean when laid by, but with a big rain soon afterward it came up all over as thick as grass. It took my man and me seven days to scrape that all over and cut every bur out. Then the next spring I sowed two bushels of oats and a bushel of clover to ten acres, with about a bushel of timothy seed, and had a fine stand of grass with a few burs. When I cut the hay later I went over it with a hoe; a scythe is better, as you can pick out a bur without cutting much grass. The other twenty-six acres have given me more work the last two years. I believe August or the first part of September is the best time to sow timothy.

Warren Co., Iowa. D. W. Moore.

Improvement of Farm Homes

THE destiny of the farmer of the future is influenced in a great degree by the farm homes of the present generation. It is undeniably true that much of the responsibility for the movement of farmers cityward is due to the discomforts and inconveniences of the farm home. It is useless to decry the action of the farm boy and farm girl who go to the city because they foresee better things for themselves, while the fathers and mothers are hustling in the same direction. A wide acquaintance gives us abundant evidence that a great many farmers are looking forward to the time when they may move to town and "begin" to enjoy life. The enjoyment of life in such instances is not so much due to the ability to refrain from work as to the opportunity afforded to take advantage of the so-called "modern" improvements of water, sewerage, gas or electric lights. In other words, they are seeking comforts and conveniences that make life more enjoyable. To secure these, in town, they are willing to run the risks of the mental unrest and disintegration that come to the man of a previously busy life who suddenly finds himself without occupation for mind or muscle.

We wonder how many of these men realize that their action is based upon a selfish motive, and accomplished at the physical, mental and moral expense of sons and daughters. We are illustrating a common condition, not a theoretical one. Hundreds of instances can be cited in which every energy is being devoted to the accumulation of a sufficient capital to justify leaving the farm. And in almost every instance the course involves neglect of the home, and those conveniences and comforts that make it attractive to old and young.

It is scarcely a matter for blame for the younger generation that, realizing the injustice to which they have been subjected, they turn their faces toward occupations in which conditions are more favorable to present comforts than those of the farm.

Is it not possible that, seeing things in a different light, farm homes might be put on a basis fully as attractive as those of the city? The answer to this question means that profits of the farm be invested in improved farm homes, houses supplied with heating systems, running water, sewerage, gas or electric light. It means large, roomy, comfortably arranged houses. It means houses that are homes—homes just as good as any the city can provide. It means comfort for aching bones and rest for tired muscles. It means pride of possession and mental satisfaction. Is it not worth the price? Never doubt it.

It is a fact that all these things may be accomplished at a cost not a whit greater than is incurred for like buildings in the city. It will, of course, call for the expenditure of more money on the farm, but that should be considered in the light of an investment which will add just that much to its material value.

If one-half the immense sums of money which the farmers of the United States have invested in Canada lands had been devoted to building good, substantial, comfortable, convenient and well-equipped houses on the farms that produced as profits the money thus sent abroad, such farms would have received a wonderful revival of values, and the families on them would have become the objects of envy where they are now worshippers at the shrine of city comforts.

Such houses do not involve any expenditure out of proportion with the value of the farm. They need not be over expensive. Yet the construction of such a house should be of a character good for many generations of the future. Brick, stone and concrete should supplant wood. At present and prospective prices of lumber the difference in cost is worthy of no consideration whatever. Wood, as an exterior building material, is only a temporary makeshift at best. Its preservation, even for the period of a single generation, depends upon the expenditure of an amount, for paint and labor,

many times greater than its original cost.

In building for permanency, any grotesque or fancy designs should be avoided. In building, as in clothing, the ultra styles of today may be the folly monuments of tomorrow. Choose with a view to interior conveniences and comforts rather than to exterior showiness. Plain, substantial buildings with a massiveness that suggests ability to withstand the test of ages are always of attractive appearance.

Manufacturers have, to a greater extent than farmers, realized the wonderful possibilities of comforts and conveniences which may be had for the farm home. They have perfected systems of water supply for the house that are as excellent in their operation and as effective in their results obtained as any city plant. The cost is decidedly low.

Furnaces, hot water plants, or steam heating devices are just as cheap, just as available, and just as much to be depended upon as those in use in the city home.

For lighting, both gas and electric systems have been provided that are adapted to the farm, and in either



A SUBSTANTIAL CORN-BELT FARM HOUSE.

case at a cost not out of keeping with the results to be obtained.

Sewerage on the farm can be provided at a cost infinitely less than that incurred by our city brother.

The glorious sunshine and the unsullied atmosphere are ours by right of possession, and together are a boon not so generously granted to the urban dweller.

The youth of our farms are contributing mind and muscle to the building up of the profits that have been sent fortune hunting to foreign countries. It is due them that some of those profits be devoted to the perfection of such homes as are above suggested. Once they have been provided, the home ties will have the more closely bound the boy and girl to the farm, and illustrated the importance of the farm as a home in competition with any that can be found elsewhere, and for the "retired farmer" who has by the suggested method kept his descendants on the farm, where is a better promise for contentment of mind and comfort of body than amid the scenes of his life activities?

We have in mind, as an illustration of the idea in question, an Iowa farmer, who, having a large family of children, built the house illustrated on this page. He has, perhaps, been subjected to unlimited criticism for having made so great an investment on so small a farm (he owns less than half a section of land), but he has provided a home for his family that is a joy and a pride to each and every member. It is an object of interest to the entire community, and has advertised the county in which it is located more than any other public or private building or business undertaking.

MERIT IN ALL DODDIE FAMILIES.

To the Editor of The Homestead:

I should like to reply to an article written by C. J. Martin, in which my name is mentioned. Mr. Martin is quite young in years to dictate to a

man who has had fifty-five years' experience in steer feeding and breeding pure-bred cattle.

It requires judgment and care to make a success of any business, no more in breeding than in feeding. Mr. Martin says that it is a mistake to say that pedigrees are fashionable, because as a matter of fact it is the animal itself. I beg to differ, for in the last three years I have seen Queen Mother cows led into the ring, regular show cows, that sold for but little more than beef prices, while other cows looking as though they were in the last stages of tuberculosis, but with a Blackbird pedigree, would sell for twice that amount. This is a common occurrence in this country. Does it not show a pedigree fad? The individual merits should keep to the front. According to Mr. Martin's statement, he has cast out all families but Prides, Ericas and Blackbirds, and with these he has taken all prizes at our state fairs for two years. They must have been off years. And still, people passing along by the show ring would remark that they had better cattle at home in their backwoods pasture. Is it any wonder?

I am a strong believer in good blood in all kinds of stock, as well as in the human family. It cannot be too pure to suit me, and the only way to get it that I know of is to have it

with his Drumin Lucys and today they are being sold at a very low price. I cannot see that one family has so much better show-yard record than another. I cannot name a family that has not had a show-yard record. There are plenty of men in this country and in the old country who have show-yard cattle that do not show. Last summer I bought some of the best bred cattle I could find over there—half sisters to the champion bull of the world, but I haven't the show-yard bee in my bonnet. We have more Prides, Ericas and Blackbirds than anything else, and use nothing but Blackbird sires. I can see that we need the best of all families. It is simply the pluggers around some sales that are doing the cattle as a breed an injury. A beginner buys a few at a long price and finally calls a sale, but he cannot get half the first price. Some other family is taking the lead because the pluggers have gone over to that family.

Last summer when I was in the old country I made it a point to find out what they were doing over there. I got their prices on different families and on good individuals. I was surprised to see that their prices were so near alike on all families. Various people told me that we were making a great mistake to run one family into the ground and another sky high, because we needed the best of all families. They are not line breeding as one would suppose, but mixing the best of all families together. Are we so much wiser over here than they are in the home of the breed where they were bred a hundred years before we knew there was such a breed? I think not; if they need the best of all families, it appears to me that we do, too.

R. Wilkinson.

Polk county, Iowa.

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OPPOSES ROAD NARROWING.

To the Editor of The Homestead:

In response to your request for opinions of farmers and others interested in the width of the roads in the state would say that I am unalterably opposed to changing the legal width of the public highway and am devoutly thankful that the lawmakers who devised the road laws of the state had the good hard sense to give us roads of so generous width. While in the early settlements of the state it might not have been so important to have a wide highway, yet as the years go round the wisdom of the men who devised our road system must be growing more evident to every intelligent person who uses the public highways.

Lawmakers who made road laws around 1848 no matter how optimistic their ideas could not have anticipated the unprecedented growth of the state in seven decades following. Those men had recently removed from the older states where their experience with narrow roads had taught them the necessity of wide highways. Changed conditions which those men could not have foreseen when these measures were enacted more fully demand wide roads than did those conditions which were in force at that time.

Then there were no traction engines, corn shellers, or thrashing machines traveling the highways; automobiles running at unlimited speed were unknown. Life on the public highways was comparatively safe, but even then experienced men knew the value of wide roads. I never could believe that men like Governor Carroll were in earnest when they advocated a narrowing of the highways, but simply did so that the attention of the people would be directed to the imposition which many land owners put upon the public by planting hedges and willows along the road side. Those who have to use the roads a good deal, know what a nuisance they are both in summer and winter, keeping the road wet and muddy for weeks at a time and in winter holding the snow in impassable drifts for months at a time; and as the accumulated snow melts slowly in the spring causing ruts and ditches frequently to destroy the roads for years. For forty years I have lived from seven to twenty miles from market; hence have done a great deal of traveling on the public highway. My experience would certainly cause me to demand a highway of the full maximum legal width. Not only that, but it should be free from all obstructions. Telephone poles and electric light poles should be put to the limit of the road line. There should be no ditches at the side of the road but a broad, smooth water table which would permit teams to drive into it in case it became necessary. There should also be no banks on the side of the road—in fact the whole width of the road should be so that the public could use it if it were necessary to do so.

Those who advocate narrow roads do so for the reason that they believe they can be kept up at less expense and in better shape, but it is a fallacy that experience does not justify. When a narrow road grows soft the traffic is confined to a narrow space that continually grows deeper. In case of more moisture it is in a condition that the water cannot get away, hence, it steadily grows worse and a continual wet period usually makes it utterly impassable. While if the road is of the full width of four rods, there is usually some part of it passable. Again if a person has been plowing along on a narrow road through the mud what a relief it is to meet a piece of road with a sod stretch on each side where a team can walk. The man and team both bless the thoughtful lawgiver that made such relief possible.

While I am a landowner who would be able to add from two to three acres to my cultivated premises in case a measure such as is advocated were made a law, yet it would be no inducement to me to have the present law changed. In fact I believe that the public have rights as well as landowners and I firmly believe it is to the interest of all that the roads should be kept at their full width. The secret of good roads is to have

the owners adjacent to the roads interested in keeping them in good condition. Many land owners should be taught how to do the work properly and the importance of the value of good roads to the farm. The bane to the road system is the general renting of large farms as renters usually do not take much interest in the roads nor is it reasonable that they should, as they only have temporary interest in them while the owner has a permanent investment adding as much perhaps as any other improvement to the value of the farm. The width of the road does not add or detract from its condition. It is the man behind the farm who has public spirit and a desire to make the most of his possessions that makes the difference. The public spirited citizen will see that the roadway on his premises is kept free from weeds, be it wide or narrow, and there is no better evidence of a man's character than the highway through his premises. The advocates of narrow roads are usually owners of automobiles who desire a smooth roadway knowing full well that teams will be compelled to give them the smooth road because the teams will keep as far away as possible while passing a car. Automobile drivers apparently do not concern themselves about teams or teamsters. They feel safe in their machines, therefore the team and teamster can look out for themselves. It therefore behooves owners of teams to give themselves all the room that the law will admit, because the automobile has come to stay and as the years are lost there will be a steady increase in their number. There will always be a per cent of the chauffeurs who are reckless and careless of human life and it is good sense along with good policy to protect the public against the folly and criminal negligence of such people. In my opinion there is no better protection than a good, broad highway from the dangers of travel and he who advocates narrow roads surely must lack the experience which the majority of farmers have had that reside in Iowa.

W. W. McElhinney.
Tama Co., Iowa.

SURFACE CULTIVATION.

To the Editor of The Homestead:

Intercultural tillage, that is, the practice of cultivating the ground upon which a crop is growing, is an art that is sadly abused in some sections of our farming community. Among our best farmers it is a subject that is being most carefully studied, for he who studies most closely realizes most keenly the possibilities for greatly increasing or for materially decreasing his corn crop by right or wrong intercultural methods. The northern sojourner in the south no longer wonders at the pitifully small corn crop many of his southern neighbors produce when he sees that all their plowing and cultivating is done with the same one-mule plow. Yet from the standpoint of intelligent intercultural practice, does our northern friend stop to consider that there may be as much difference between cultivator and cultivator as between plow and cultivator?

I have in mind a farmer who grows many acres of corn and beans each year and does every bit of the cultivating with a shallow cultivator. He raises corn and he raises beans. His system is not far removed from that of the southern farmer who plows his corn to his own grief, yet is perfectly happy in so doing because he is perfectly unconscious of the possibilities he ignores. Tearing up a corn field to a depth of four or five inches two or three times a year may be conducive in some instances to a state of mental serenity and undoubtedly destroys some weeds, but it is woefully poor economy. It is a part of nature's great plan that a corn plant in order to reach its most perfect development shall have a well-developed root system. It is also a part of that great plan that by far the larger proportion of that root system shall lie in the upper few inches of the soil. Nature is most highly plastic in the hands of man, but her laws are inexorable and he who would grow corn or any other plant, by tearing its root system to shreds is merely bumping his own shins.

When the young corn plant makes

its first appearance above ground its root development is very small. Deep cultivation can do it no harm and will in reality do a vast amount of good by loosening the soil about the growing plant making it more retentive of moisture and permitting the proper aeration of the soil. But the plant grows and in so doing pushes out its roots until, if allowed to develop normally, it fills the entire space between rows with a dense mat of feeding roots. The man who cultivates wisely will never ignore these changes that are taking place beneath the ground and, as the plant grows he will suit his methods to the change. Each succeeding cultivation will be more shallow than the last. He will never give weeds a chance to reach such size that deep cultivation is needed to destroy the strong roots. He will have started cultivation early and kept at it continuously so that there are none but tiny weeds to kill. In fact on many of our best American farms the destruction of weeds is a mere incidental to the conservation of moisture. Cultivate to conserve moisture, that is, keep a continuous dust mulch on the surface of the soil and as a rule the weed problem will solve itself. This is especially true of our humid regions where the frequent rainfalls make almost continuous cultivation necessary during the early growing season when weed destruction is especially needed.

For the later cultivations the cultivator with the wide knife in place of a shovel is deserving of special men-

tion. It accomplishes a threefold purpose at one operation; it cuts the roots of all weeds that seek to push above ground, it levels the soil between rows thus decreasing the surface from which evaporation may occur and it is one of the most perfect tools for maintaining a dust mulch. And all this is accomplished without interfering in the slightest with the root system of the growing corn plants. Of course a cultivator of this kind cannot be operated to advantage upon stony land; neither can it be expected to do its best work upon uneven and broken land. But where conditions are right and the right kind of a man can be secured to do the work, it is the machine par excellence for late cultivation.

H. J. Meyer.

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Showing newest 1910 designs in carpets, rugs, linoleums and lace curtains in actual colors. We ship direct to you, freight prepaid. Don't pay high prices. Order by mail.

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Grown from PEDIGREED Stock Seed by Expert Seed Corn Growers. Critically HAND-SELECTED, each individual ear being examined carefully, GRADED for edge dropping and Thoroughly TESTED so that we know that it will not only grow, but give satisfaction. If conditions are favorable. The per cents stated show what the various sorts have grown in our test. There is a great demand, and supply will soon be exhausted. ORDER QUICK IF YOU WANT IT, and should it not please you in every respect, send it back within ten days and we will return your money. Sample and descriptive catalog free.

	Matures	Our Test	Bu. 10 Bu.
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Early Yellow Dent.....	95 days	94 per cent	2.50 22.50
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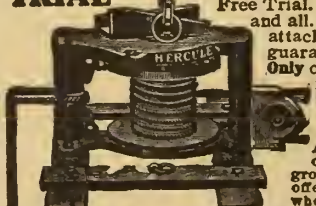
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No excuse for stumpy fields. This Hercules is now sold on 30 days' Free Trial. Test it on your place at our risk. Pulls stumps out, roots and all, 400% stronger than any other puller made. Triple power attachment means one-third greater pull. The only stump puller guaranteed for 3 years. Only one with Double Safety Ratchets. Only one with all bearings and working parts turned, finished and machined, reducing friction, increasing power, making it extremely light-running. Hitch on to any stump and the

STUMP IS BOUND TO COME

Also pulls largest-sized green trees, hedgerows, etc. Don't risk dangerous and costly dynamite. It only shatters stump and leaves roots in ground. Save big money; get our **FREE BOOKS** and free trial offer. Also special proposition to **FREE BOOKS** first buyers where we have no agents. Write us a postal card today. Address

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Oxford Hay Loader

Simple, light and strong combined rake and loader. Result of 20 years' practical tests. One man rakes and loads from swath or windrow any kind of light or heavy grass. Rakes 8-foot swath clean as any spring-tooth horse rake, on hillside or level ground, uphill or down. Direct gear drive. No chains to wear out. No shoes. Double strength rake bars, with spring joints that adjust them to rough or stony ground. Rakes raised at will. Runs smooth. No vibration. Light draft. Easily handled. Best seasoned wood used in construction. Guaranteed against defects. Mr. Mart O'Boyle, Lost Nation, Iowa, used one for 15 years. Send for descriptive circular.

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Can be destroyed and the worst field reclaimed. The only known method of completely destroying this pest. Discovered and explained fully by P. B. Crane, a Minnesota Farmer. The Crane method is recommended by Agricultural Colleges and all practical farmers who have tried it. Write for their testimonials and full particulars. Requires no extra machinery. Any one can do the work. The honesty of this method is guaranteed by the Webb Pub. Co.—The largest farm book publishers in the West. It only costs a postal card to investigate. Why not write today.

WEBB PUBLISHING COMPANY, 331-The Farmer Building, St. Paul, Minn.

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SPRAY THE FRUIT TREES.

To the Editor of The Homestead:

"Why don't you spray your fruit trees?" I asked a man one day while we were viewing his orchard.

"O pshaw!" he exclaimed. "It doesn't pay to fool with spraying. Besides I've no spraying machine."

"I know where you can buy a good one for ten dollars," I added, "and if you just use it one year, you'll find it pays."

"Well, if I thought there was money in it," the farmer assented, "I certainly would purchase it. But the orchard has been dropping its fruit year after year, and I haven't realized anything much out of it."

"You know Mr. James? Well, his experience was something like yours. His orchard was the victim of insects year after year. I persuaded him to buy a sprayer, and last year his trees were loaded down with apples and they were first class."

"Yes, I heard about his experience, and I have thought maybe I would buy a sprayer some time, but some have discouraged me saying there's nothing in it."

Our conversation finally ended with the farmer fully convinced of the benefit of a sprayer. He finally purchased the one I had recommended. The next year I happened along at apple picking time. His trees were simply loaded down with as fine apples as I ever saw. Instead of having barely enough to supply his family he had contracted three hundred barrels to a packing company at two dollars a barrel. Of course this farmer was all smiles when he saw me peeping over the fence at him, and he thanked me heartily for advising him to purchase the sprayer. So I would advise all to buy a sprayer who have fruit trees, for it pays to spray. Subscriber.

FARM MANURES.

To the Editor of The Homestead:

Based upon the current values of the three essential components of commercial fertilizers the fertilizing value per year for each thousand pounds live weight of the different farm animals varies from twenty-five to thirty dollars. The United States Department of Agriculture places the total value of stable manures produced in the United States each year at two billions of dollars. Of this magnificent total about one-third is wasted on account of improper care in handling the manure from the stable to the field. In a series of experiments covering a total of 327 days it was found that the loss by leaching and fermentation in solid excreta was: Nitrogen, 37.6 per cent; phosphoric acid, 51.9 per cent; potash, 47.1 per cent. In mixed manure containing both solid and liquid excreta, these losses were as follows: Nitrogen, 51 per cent; phosphoric acid, 51.1 per cent; potash, 61.1 per cent. Based upon these losses it is readily computed that the actual cash loss from allowing manure to lie without protection from April 25th to September 22d, is about \$1.75 per ton. In other words, manure worth \$2.80 per ton may in the period of time mentioned be reduced to a value of only \$1.06.

Among the methods of handling manure in a decidedly wasteful manner might be mentioned the piling of it on a sloping hillside exposed to rains, or, worse still, to the drip of water from the eaves. Open yard feeding is essentially a fertility wasting process since the manure is piled in so thin a layer that it is readily affected by every rainfall. Manure exposed in loose piles is especially liable to loss of nitrogen by fermentation. This danger increases if the manure is lacking in moisture. It is this looseness and the absence of moisture in horse and sheep manure that causes them to give off nitrogen in the form of ammonia with such noticeable readiness. If manure must be placed in piles, it should be well packed, kept thoroughly moistened and the pile built with straight sides and a low center. Care should be exercised to the end that all the liquid manure may be saved since it is a well-known fact that it is in this portion of the manure that the larger part of the available elements of fertility are found. A most foolish practice is that of allowing liquid excreta to escape through holes in the floor back of the stall. An attempt

should be made to provide sufficient bedding to absorb the liquid. If circumstances allow it to be done, it is usually found wise to cut straw into two or three-inch lengths in order that its absorbing power may be increased.

The best way to conserve manure is to draw it directly from the stable to the field. It should be spread at once either by means of the manure spreader or with a fork, but at any rate it should not be dumped onto piles where injurious fermentations may take place and local leaching lead to over-fertilizing in spots at the expense of adjoining areas. In a series of experiments conducted for the purpose of showing the relative values of fresh and fermented manures it was found that where three applications of the latter in three consecutive years produced an increase in yield of 76 per cent, the fresh manure resulted in an increase of 116.9 per cent. Evaporation in the field causes no loss in the three important elements of fertility; nitrogen, phosphoric acid and potash. Subscriber.

THE DRILLED WELL.

To the Editor of The Homestead:

A pure water supply for home, farm and stock purposes is imperative for every homestead.

Instead of depending on the local surface drainage with its varying degrees of contamination and a periodic shortage of supply just at the time it is most needed, the modern drilled well penetrates the impervious shales and taps the underlying supplies of pure, healthful water, free from every trace of contamination. All surface drainage is completely excluded by means of an iron casing that extends down to the bed rock.

Strata that were inaccessible in the days of the dug well are now the common sources of supply. Exploration of the deeper lying strata has revealed the existence of vast artesian areas that will furnish an unending supply of pure sparkling water. The old-fashioned method of "digging" a well represents the earliest attempts of mankind to provide an artificial water supply. It was adopted in the days of crude tools, before modern well-drilling machinery was perfected and obtainable at a low cost. That the process is still in use in some remote localities is due largely to the fact that the overwhelming advantages of drilled wells are not generally known. Fortunately, it is in growing disfavor and will soon be a thing of the past.

In many localities the depression of the ground water table, caused by the increased number of drilled wells, drainage channels, etc., has caused a gradual shrinking of the supply in many of the existing dug wells, and in seasons of extended drouth or during long winters a shortage of supply naturally occurs in these wells that are dependent on surface drainage.

These shortages occur at times when water is more than ever a vital necessity. Those who have experienced a drouth when creeks and streams have become stagnant pools, and springs and shallow wells dry up, can appreciate the value of an abundant supply of pure, cold water from a deep-lying stratum. At all times the drilled well gives a feeling of security and comfort, and is a guarantee against sickness or contagion from a contaminated water supply. All over this country there are thousands of these "dug" wells that are, in many cases, little better than cesspools, that are used for the local water supply.

Only a very small percentage of these are protected from the immediate surface drainage, and the nearness of out buildings and general refuse means constant contamination. Many of these wells are uncovered or at best provided with a loose covering of boards. All manner of creeping and crawling vermin, rats, mice and even the smaller domestic animals find their death bed and grave in these unsanitary water wells. This is evident when the periodic cleaning of the well takes place. This usually occurs when the putrefaction has so far advanced that it becomes noticeable to the taste or smell. Samples from these open wells when subjected to analysis invariably show the water unfit for human use. Typhoid and a long train of terrible diseases are at once traceable to the use of water

from these wells. Statistics show that 85 per cent of all typhoid is due to impure drinking water.

In many localities dug wells are used for the sole purpose of draining the surrounding land. This is particularly true in the swamp lands of this country where a stratum of impervious clay caps an underlying gravel bed. Thousands of acres have thus been drained and restored to cultivation. This feature of surface drainage is in itself a conclusive argument against the use of the ordinary dug well for water supply purposes. The up-to-date farmers, stock raisers and residents of the country are awakening to the advantages of the drilled well with its continuous curb or casing to shut out the surface or other undesirable waters, and to prevent the infilling of the well by the caving of the walls. Subscriber.

TIMOTHY AND CLOVER SEEDING.

To the Editor of The Homestead:

In a recent issue of your paper you invite your subscribers to give their views on the advisability of seeding a field infested with cockleburrs to timothy and clover. The best way I know of is to seed such a field to oats or barley without timothy or clover. Then right after harvest, cut the burs down with a mower and plow the field. Shallow plowing is best, because it gives the burs still on top the ground a chance to grow. Then about the first of September prepare your field with disk and harrow for seeding, then sow your timothy and about the first of March sow your clover. The preparation for sowing the timothy will destroy the burs which are then up, and those that come up after sowing the timothy will be killed by the frost. If it should be too dry right after harvest to plow, the burs should be destroyed with a disk. A field prepared in this way may be sown to fall wheat and timothy, and the clover sown next spring. If the wheat should get winter

killed there may be a good stand of timothy. As timothy is cheap, sow some with your clover in the spring. This is my prescription for such a field. August Horstmann.

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Choice Alsike Clover Seed.....\$ 9.00 per bushel
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Bags free. Ask for prices on other seeds.
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Get a Rankin Two-Row Cultivator and Raise "Million Dollar" Corn!



The Man Behind the Cultivator

David Rankin, the millionaire farmer and stock feeder of Tarkio, Mo., is a veritable wizard in the world of corn. His 26,000-acre farm produces a million bushels of corn every year, and he buys half a million bushels more.

He is the most extensive corn grower and stock feeder in the world. He fattens 35,000 head of stock for the market every year.

He uses special machinery of so much greater capacity than the ordinary that he spends less for labor and horses than the average corn grower.

The Rankin Two-Row Cultivator does the work of two single-row cultivators, saving one man's time and one horse.

He uses hundreds of these Two-Row Cultivators to keep his 18,000 acres of corn in a perfect state of cultivation, and estimates that they save him \$20,000 a year.

David Rankin personally guarantees the cultivator to be of the very best construction, and anyone who uses it for fifteen days and does not feel that it is all that is claimed for it can send it back and get his money back.

The corn growers of this country are waking up to the advantages of the Rankin Two-Row Cultivator. My page advertisement certainly stirred things up. I have been almost snowed under by requests for catalogs, and the orders are coming in so fast that it looks now like my factory can't turn out enough cultivators to supply the demand for the season of 1910. If you want one or more of these cultivators don't delay a minute or you may have to wait a year.

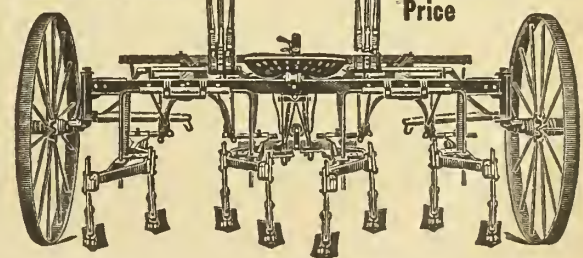
I have instructed the manager of my Implement factory to sell the cultivators at the lowest wholesale rate.

Any man with 80 to 175 acres of corn land can buy one of these cultivators and not only save its cost, but \$40 to \$50 extra the first year he uses it.

My cultivator does the work of two men and four horses. That means a saving of one man's wages and the cost of one horse and feed. This cultivator will do as good work as any shovel cultivator on the market, either single or double row. It is controlled by the operator with equal or greater ease than any other cultivator in existence. Guides like an automobile.

Use it 15 Days
on Your Farm
Before You Decide

I'll Sell Direct to
You at the Actual
Wholesale Factory
Price



You can plow as close to the ends as with a one-row cultivator. The team is so close to the load that it runs easier than ordinary cultivators.

Adjustable for rows of uneven width or for uneven surface. It is adapted for cultivating Listed Corn or Surface Planted Corn. Equally popular in Corn or Cotton fields.

I am giving farmers the benefit of the lowest wholesale price and allow fifteen days' trial. I personally guarantee every cultivator. If you want to be sure of one or more Rankin Two-Row Cultivators for this season,

Do Not Fail to Mail the Coupon Today!

No farmer growing 40 acres of corn or more can afford to be without this cultivator. Send coupon for the catalog of Rankin Cultivators and special WHOLESALE PRICE OFFER. This advertisement will not appear again. (4)

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"California Now or Never"

"The Kuhn California Project" will irrigate 250,000 acres in the famous Sacramento Valley. The land is ready! The water is ready! Are you ready? The sale of these rich valley lands has just begun in tracts of 10 to 80 acres. Small payment down, then ten annual payments.

The valley is garden soil, 50 feet deep, yielding immense crops of fruit, alfalfa, sugar beets and all the famous products of California. Mature orange groves on these lands have yielded as high as \$1,000 per acre. If you are going to have a farm, why not have the best? The Kuhns are always looking for the best, and their experts tell them in this enterprise they have found it. They are putting millions of dollars into improvements to make it still better. The land is close to big markets and will pay for itself.

You take no chance in buying land under the Kuhn projects. The Kuhn interests are irrigating 400,000 acres in the Twin Falls Country, Idaho. Their great Sacramento Valley project offers an almost frostless winter and a still wider range of crops. Organize a California Colony in your own city or town. Take your neighbors with you.

Just published a very choice book of 48 pages, "California—Now or Never." It is by far the handsomest California book ever issued and will show you at a glance whether you want a home ranch in California. To insure a select distribution, it is priced at ten cents. All other publications which are fully descriptive are free. Fill out the coupon below and mail. If you want the new book, enclose ten cents for each copy.

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Please send free information about Sacramento Valley Irrigated Lands to the following addresses:



\$6,000 A YEAR FOR LIFE

FROM TEN ACRES DEVELOPED FRUIT LAND IN MEXICO

You can get rich by buying land now in the famous Pan-American district of Mexico, along the line of Ex-Ambassador Thompson's Pan-American Railway.

We are opening up for sale a fine, large block of this land adjoining the townsite of San Pedro, and will sell you ten acres of this rich fruit and farm land at \$15 per acre; \$10 down and \$5 per month without interest. Get a tract of this rich land before the flood-tide of emigration has swept over this district and caused land values to advance away beyond your means. In all human probability, you can re-sell in twelve months at double the price you pay.

10 acres in Oranges yield.....	\$4,000.00 per year
10 acres of Rubber Trees yield.....	6,000.00 per year
10 acres in Pineapples yield.....	3,000.00 per year
10 acres in Cocoanuts yield.....	3,500.00 per year
10 acres of Sugar Cane yield.....	2,000.00 per year

SEND FOR FREE BOOK—

"The Richest Land in the World"

Our big free book gives the exact production of all crops, tells all about the soil, the climate, water, transportation and other facts that you should know. Do not fail to send for this book today and reserve land now at the present price of \$15 an acre, less than one-twentieth the price of any similar land in the world.

Let Us Show You the Proofs That this is the best land on the market. Let us show you the personal endorsement of this land by Hon. David E. Thompson, who recently visited our town of SAN PEDRO. These lands are right on the railroad, two stations on the land. This land has a climate superior to California; it's as smooth and level as the best farm in Kansas. Two and three crops of corn are raised each year here without irrigation. It's a great district for oranges, pineapples, lemons, rubber, chocolate, tobacco, etc., which thrive perfectly here without irrigation.

Titles Absolutely Guaranteed We furnish you a bond from a responsible company, absolutely guaranteeing you a perfect title. We protect you absolutely. Simply send name and address and get our complete book, "The Richest Land in the World." Learn what American farmers are doing in this territory and how easily you can get rich with a small fruit farm.



Mexican Republic Colonization Co., 30 Midland Bldg., Kansas City, Mo.

YAKITAT—

YES—In the Yakima Valley and Lots \$30.

Buy a lot in Yakitat where you might do as other have done out here. One man made 1200 per cent in eight years in one western town; another the same in six months. We expect a great deal from Yakitat. On the main line of the Northern Pacific Ry. In the famous Yakima Valley; the center of 500,000 acres of the best fruit land that will soon be irrigated. Starting now. Send for literature. You may pay \$5 down and the same monthly until paid. E. B. Butler, 1179 Am. Bank Bldg. Seattle, Washington.

LAND SALE

Did you ever own a farm in the blue grass, corn and clover belt? Did you go a little too far? If so, write me. I have corn, clover and blue grass land in northwest Missouri, temperate climate, good improvements, 365 acres, rich soil, fine home, modern improvements, water system, barns and corn cribs, scales, hog-tight fencing. All extra good. Three and one-half miles from town. Possession now. Easy terms. 367 acres, grain farm, rich soil, 7-room house with cellar, three porches. Two large barns, large corn crib, scales, other outbuildings, hog-tight fencing, 3 1/2 miles from town. Easy terms, 5 1/2 per cent interest. Schools and churches paid for, low taxes, good market towns and railway facilities. State and soil map free. For full particulars write, BAZEL J. MEEK, Owner, Chillicothe, - Missouri.

Mr. Farmer or Stockman

WE have a number of bargains in good farm or ranch propositions in Charles Mix county, the corn belt county of South Dakota at reasonable prices and terms. If interested, write

C. VANDERBOOM, Platte, South Dakota.

BUY A FARM IN TODD CO., MINNESOTA

125 Miles From Minneapolis in Central Minn. \$400,000 paid to farmers last year for cream. Churches, schools and telephone. Best of soil and water. Beautiful lakes. First in grasses and grains. Prices \$25 to \$40 per acre. Here is the opportunity. Come and see. Write for facts.

G. B. RODDIS, Long Prairie, Minn.

RED RIVER VALLEY IMPROVED FARMS IN Kittson County, Minn. Will produce wheat, \$35; flax, \$10, and clover seed, \$100 per acre, and other crops in proportion. Prices range \$30 to \$45; wild lands, \$8 to \$20. Climate perfect winter and summer. Buy from an old resident and farmer; lived in Minn. 39 years. A. Carlson, Kennedy, Minn.

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address BERT L. WELD, SLAYTON, MINNESOTA.

SOME VERY CHOICE AND WELL-IMPROVED FARMS

FOR SALE, on easy terms, at \$35 to \$10 per acre. Land located in the very heart of Minnesota's best farming country. For particulars write Julius Thorson, with Security State Bank, Benson, Minn.

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also 1/2 section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

The Importance of the Silo.

The silo as one of the means leading to more economical production of live stock has just begun to receive just appreciation at the hands of the general stock raising farmer. It is a fact that silo fed cattle retain their bloom and thrift throughout the winter in a manner that is not gained by any other method of feeding. In fact, the silo gives summer pasture conditions throughout the entire winter season. A book which gives many important facts on the silo, the use and advantages of silage and other facts of interest may be secured free by every reader of this paper who writes for it to the Severance Tank & Silo Co., Dept. 312, Lansing, Mich. An advertisement of this firm will be found on page 16.



Sunny Alberta's Fertile Valleys

You can now secure a farm in these rich valleys direct from the Railway Co. at \$9.00 per acre up, on most liberal terms. Delightful climate, mild open winters, plenty rainfall. Millions acres to select from. Close to railways, good towns, well settled districts. Next excursion Tuesday, April 5th. Round trip rate \$29.00. Write once for booklet, maps and reservation in Canadian Pacific Private Car "Calgary."

Colonization Dept. Canadian Pacific Railway GUNDY & GUNDY, Gen. Representatives 605-6 Fleming Bldg. Des Moines, Iowa

IOWA FARMS Thirty well improved farms in counties, Iowa, for sale cheap. Desiring to retire from active business, I want to sell these farms during the summer of 1910. These farms range in size from 80 acres to 640 acres. They are mostly tiled out and have good improvements on them. Will take a small farm as part payment on my 400 to 640 acre farms, if put in on cash basis. I also have several sections of Canada, Minnesota, North and South Dakota lands which I want to sell. I am also agent for some men that want to trade their equities in their Dakota and Iowa lands for hardware, implement, harness or furniture stocks, in which good deals can be secured. No lands in Iowa are as cheap; no lands in the world are better than these Iowa lands. I also have the agency of a large list of local farms for sale not listed in booklet. Write to or see C. S. Allen or C. S. Allen Land Company, Laurens, Iowa.

EASTERN KANSAS

I HAVE for sale at owners' prices over 300 choice improved farms in Lyon and Coffey counties, in the beautiful and fertile

NEOSHO RIVER VALLEY Fine corn, wheat, alfalfa, timothy and clover. Write for new illustrated descriptive circular. Mention THE HOMESTEAD when writing. Address ED F. MILNER, HARTFORD, KANSAS.

HOMESEEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address The Allen Co. Investment Co., Loughton, Kan.

Minnesota Improved Farms

I own and offer for sale 330 acres; well improved, farm near Crookston, Minnesota. Also a section and half section between Warren, Minnesota, and Grand Forks. No better soil anywhere. H. C. Gilbert, 1237 Metropolitan Bldg., Minneapolis, Minn.

When writing mention this paper.

A GUIDE TO THE LAST WEST

THE 1910 EDITION IS NOW READY. Send for a free copy. It describes our 100,000 acres choicest Farming Lands in the Trautman Lake and Houghton Lake districts of

Western Canada

It tells you how to secure a home or to make a profitable investment; tells of the great crops, low prices, easy terms; of the many reasons why you should investigate NOW, before it is too late. Our private car, the "IENZA," goes the 1st and 3d Tuesdays each month. We save you money on Fares, Meals and Berths. Write today for our free "Guide." Don't put it off. Address our Main Office, 240 Germania Life Building, St. Paul, Minnesota.

LUSE LAND & DEVELOPMENT CO., L'd.

A Home For You

IN the famous Arkansas Valley of Colorado, with perpetual water right. The soil is rich and deep, producing all kinds of crops. Alfalfa, wheat, oats, barley, sugar beets, potatoes, cantaloupes, fruits and berries, grown here. Big demand for poultry and honey. A few tracts offered at \$30 per acre and will double in value after the first year; railroads and good markets. Your fare paid if you buy 80 acres or up. Write for illustrated maps and booklet. Farmers wanted not speculators.

Monson & Malcom Realty Co., 300 Kirtledge Bldg. - Denver, Colorado.

... BUY ...

South Dakota Land

KADOKA, STANLEY COUNTY.

RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gilt-edge farm mortgages for sale. For description, write

F. E. Reidinger Land Agency, Kadoka, S. D.

READ THIS!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

RECEIVER'S SALE The entire Creamery Plant, including the machinery, building and grounds, known as the Lone Tree Creamery, Brown County, Minnesota, will be sold by the undersigned receiver at a private sale within the next thirty days. Equipment first class and in clean running order, located in one of the richest farming sections of Southern Minnesota. Address all communications to J. C. Jackson, Receiver, Morgan, Minn.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Iowa Lands For Sale in Howard county, \$50 to \$90 per acre. Large list on request. Address SPAULDING & O'DONNELL, Elma, Iowa.

WESTERN CANADA

Prof. Shaw, Well-Known Agriculturist, Says:

"I would sooner raise cattle in Western Canada than in the corn belt of the United States. Feed is cheaper and climate better for the purpose. Your market will improve faster than your farmers will produce the supplies. Wheat can be grown up to the 60th parallel (600 miles north of the International boundary). Your vacant land will be taken at a rate beyond present conception. We have enough people in the United States alone who want homes to take up this land." Nearly

70,000 Americans will enter and make their homes in Western Canada this year.

1909 produced another large crop of wheat, oats and barley, in addition to which the cattle exports was an immense item.

Cattle raising, dairying, mixed farming and grain growing in the provinces of Manitoba, Saskatchewan and Alberta. A adaptable soil, beautiful climate, splendid schools and churches, and good railways. For settlers' rates, descriptive literature "Last Best West," how to reach the country and other particulars, write to Sup't of Immigration, Ottawa, Can., or to the Canadian Government Agent.

W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 316 Jackson St., St. Paul, Minn. (Use address nearest you.) (6)

GARDEN HOMES IN SUNNY COLORADO

With water guaranteed for all time. We own 16,000 acres within 5 miles of Pueblo, now ready for the plow, in tracts of 10 to 160 acres. Alfalfa, wheat, oats, barley, sugar beets, potatoes, cantaloupes, fruits and berries are grown here abundantly. Big demand for poultry & honey, from this district. On 5 transcontinental railroads. Good markets and shipping facilities. Finest climate in the world. Good schools and churches. Our selling plan and terms are the best. Write for illus. booklet, map, terms of sale and particulars relative to transportation.

The Teller Reservoir & Irr. Co., 603 C No. Santa Fe Ave., Pueblo, Colo.

Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana In Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops. NO IRRIGATION SCHEME, 60 inches annual rain fall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. J. D. LaBRIE, Gen'l. Land Agent Pineau & Mfg. Co., 533 Keith & Perry Bldg., Kansas City, Mo.

FREE 200 PAGE BOOK ABOUT MINNESOTA

COMPILED by the state, describing industries, crops, live stock, property values, schools, churches and towns of each county, and Minnesota's splendid opportunities for any man. Sent free by State Board of Immigration, Dept. N State Capitol, St. Paul, Minnesota.

MISSOURI

FARMS \$10.00 AN ACRE

Southern Missouri is Booming Wonderfully

Carter County is in the Very Heart of the Finest Farming Belt

Splendid Land, Splendid Crops, Splendid Profits

The land we offer you in Carter County is, without exception, one of the finest tracts in all Southern Missouri. Regardless of where you live, what land you are farming, what land you have investigated, we can show you land that you never dreamed existed for \$10.00 per acre; prove crop records that will astonish you; show you figures of crop profits that seem almost unbelievable.

Every farmer or man who goes down to examine our land says he never thought such fine land could be had at the price. A number of men bought unsight, unseen, and when they went down to examine their purchase, BOUGHT TWICE AS MUCH MORE. Several men bought 320 acres and after they had gone over the land, INCREASED THEIR ORIGINAL PURCHASE BY 320 ACRES MORE. Our records show that every man who sees the land buys more than he expected to when he started down. The land is right, the price is right, the crop profits are there, hence nearly all BUY TO THE LIMIT OF THEIR RESOURCES, AS IT IS THE BIGGEST LAND INVESTMENT OF RECENT YEARS.

Here are a few facts about our land in Carter County, Southern Missouri, that will open your eyes:

FACT 1. The land we offer you in Carter County is the REAL home of diversified farming. Grows in abundance all temperate zone Fruits, Berries, Vegetables, Grains and Grasses. Is an ideal country for all kinds of Stock Raising, Dairying, Hogs, Poultry and Sheep.

FACT 2. The following fruits find their home on our land will grow in abundance and at remarkable profits to the grower: Peaches, Apples, Grapes, Pears, Watermelons, Cantaloupes, Crab Apples, Plums, Cherries, etc.

FACT 3. The following berries are winners and sometimes pay as high as \$1,000.00 an acre: Strawberries, Raspberries, Blackberries, Gooseberries, etc.

FACT 4. Profits from vegetables often equal, and, in many cases, exceed those obtained from much irrigated land which is held at prices ranging as high as \$500.00 an acre. One of the positive claims we make for our land is, if farmed rightly, crops can be raised that will equal, and in many cases exceed, those raised upon some of the highest-priced irrigated land in the country. The leading money-making vegetables that our land will grow in abundance are Onions, Peas, String and Lima Beans, Irish and Sweet Potatoes, Beets, Cabbage, Sweet Corn, Cauliflower, Turnips, Carrots, Tomatoes, Peanuts, besides Lettuce, Parsley, Radishes, Brussels Sprouts and other greens, but the five last named are for home consumption only.

FACT 5. It is the wide diversity of crops in Carter County that makes farming so profitable. Of grains, our land will raise Corn, Wheat, Oats, Rye, Barley, Buckwheat, Popcorn, Flaxseed as well as Tobacco, Sorghum, Nuts, Honey, Mushrooms, Broom Corn, Caster Beans, etc., equal to and in many cases exceeding the crops of those states especially noted for these products. Corn does especially well. The lowest record we have in Carter County for the year 1909 is 43 bushels, and this in the face of an off-year for corn.

FACT 6. Missouri grows a greater variety of Grasses and Forage Crops than ANY OTHER STATE IN THE UNION. Read this paragraph very carefully, then stop and realize what a wonderful range of fodder crops can be grown for live stock. Here is what our land will raise: Millet, Kaffir Corn, Speltz, Sorghum, Timothy, Alfalfa, Red and White Clover, Japan Clover, Alsike Clover, Cowpeas, Hungarian Hay, Bluestem, Kentucky and English Bluegrass, Orchard Grass, Tall Oat Grass, Soy Beans, Winter and Spring Vetch, Milo Maize, Rape and Teosinte.

FACT 7. A man can move his stock on our land in any month of the year, March to January, and find an abundant supply of wild grasses for immediate consumption. You do not have to plant and wait for forage; it is there waiting for you.

FACT 8. Carter County is the natural home for stock raising, with abundant grasses, over one hundred living springs, two sides of the land surrounded by a clear, beautiful river, plenty of shade, windmills unnecessary, long, cool summers, mild, short winters; all stock thrive far above the average.

FACT 9. Dairying produces profits almost astounding because of the fine, cool summers, and the very short, mild winters. You do not have to house stock over three months at the utmost, hence you do not have to work all summer to raise forage to feed to stock all winter. Many farmers never house their stock at all, not even so much as a windbreak. The only housing is a short period for milch cows, which makes dairying nearly all profit.

FACT 10. Hogs range the entire year. Sows farrow in the open practically the entire year. There is a plentiful supply of wild grasses and mast. Hogs are nearly all profit.

FACT 11. Plenty of water and grasses, together with a rolling country, makes sheep-raising immensely profitable and foot-rot is unknown.

FACT 12. Poultry raising is one of the big money-makers. Hens average 200 eggs to the year and it is said by those who know the country that ten acres in poultry will support a family and make a good profit. There is an unlimited demand and an immediate market for all the poultry and eggs that can be raised and at top prices.

FACT 13. Regardless of how much snow there may be in the north, do not let it interfere with going to see our land. Two or three times a year it may snow one-half an inch, or at the utmost one inch, but it disappears by noon. Very rarely do we have a cold day. The average for winter in the past ten years is 35 degrees above zero. Get out of a cold country, come where you never see fur caps.

FACT 14. If you are a renter and have enough money to make your first payment, do not worry about making a living while you are waiting for your first crops to mature. We can put you in touch with a lumber company that is operating in the vicinity of our land that can employ from 300 to 500 men the year round at wages ranging from \$9.00 up to \$15.00 a week.

FACT 15. Every contract made with every purchaser carries as part of the contract, an agreement to establish an up-to-date \$10,000.00 canning factory which will take care of each farmer's surplus products or he can have all his fruits and many vegetables canned and held waiting to top notch price the same as grain

elevators handle grain. This stops the necessity of any farmer dumping his fresh crops on the market at any old price for fear of rotting.

FACT 16. We will also prepare to handle and ship every product any farmer will raise from fruits to live stock, which will give each an immediate market for everything they raise and save all the trouble of hunting for a market.

FACT 17. The diversity of crops that our land will raise is such that a fruit grower can raise fruits exclusively, or a berry grower can raise berries exclusively, or a truck gardener can raise vegetables exclusively, or a corn grower can raise corn and other grains exclusively, or a poultry man can raise poultry exclusively or a dairy farmer can go to dairying exclusively, or a hog and live stock man can raise hogs and live stock exclusively, or any man, be he a farmer or not, can, if he so desires, raise everything on his farm from fruits to live stock.

FACT 18. For the past ten years, the average temperature in winter is 35 degrees above zero and for summer 76 degrees. Malaria, Asthma, Bronchitis and all throat and lung troubles are practically unknown. Blizzards and cyclones are unknown. The rainfall is 44 inches, with 27 during the growing season. The finest water is to be had from wells at depths ranging from 15 to 30 feet.

FACT 19. We are told by expert land men that much of the land we offer you at \$10.00 is worth \$25.00 an acre. We bought before the boom and BOUGHT RIGHT and we are giving you the benefit of our deal. Surrounding farms ranging from five to thirty miles are valued from \$20.00 to \$1,000.00 an acre.

FACT 20. The soil is a rich, light chocolate with a clay subsoil, and a large percentage of the land covered with an extremely rich, black soil caused by decayed vegetation.

FACT 21. The great feature about our land is the fine crops it will grow. Another point, if you have traveled all over Southern Missouri and think you know every bit and have never seen our land, you have missed seeing the prettiest body of plow land imaginable. Every man that sees our land is surprised to find such a splendid body. To most people, Southern Missouri means stony, rocky land. SEE OUR LAND AND GET THAT NOTION OUT OF YOUR HEAD.

FACT 22. Our land is on the Frisco R. R. and in immediate touch with splendid markets. For our markets, we have St. Louis, Kansas City, Memphis, Chicago. The Frisco R. R. reaches Kansas City, which is the distributing point for the north; St. Louis, a distributing point for north and east, and Cairo, a distributing point for east and south.

FACT 23. Our land is 187 miles south of St. Louis. We are surrounded by hustling towns with populations up to 1,500. Fishing and hunting excellent. Taxes very light.

FACT 24. We are one of the strongest companies, both morally and financially, operating in Southern Missouri. Our free booklet gives the names and addresses of every officer of the company so you can investigate and satisfy yourself you are doing business with the right people.

THE PROOF

Chilton, Mo., February 3, 1910.

Carter County Land and Fruit Co.
Gentlemen:—I am now on your land, having examined thousands of acres and the country around about; have talked with many farmers and am astonished at the splendid land you have and the wonderful crops grown here. I was skeptical about Southern Missouri before I came down, but am glad I had sense enough to see your country before buying elsewhere. I have bought eighty acres and am moving all my stock down at once. I have seen the finest corn here I ever saw, running eighty bushels to the acre, and the field has been in constant cultivation for over 100 years and never fertilized. I have seen alfalfa running four tons to acre—bluestem grass fifteen feet high. It is a wonderful grain, grass, vegetable and dairy country. I have been here for a week and the weather is fine and warm; no one ever seems to wear an overcoat. Yours truly—Wm. A. Nesler, Mount Carmel, Ill.

Chilton, Mo., February 4, 1910.

Carter County Land and Fruit Co.
Gentlemen:—I have been here over a week and been all over your land. I have bought forty acres and from what I can see and learn from the farmers hereabouts, I am satisfied that forty acres of your land will make more easy money for a man than any 160 I ever saw in Michigan. Wonderful crops of corn, alfalfa, vegetables, fruits, grasses and dairying are produced here. There is an unlimited amount of wild grass for pasture and plenty of mast for hogs. I have seen any quantity of mast and grass-fed hogs that are as fat and healthy as hogs fed on 65-cent corn. I am fond of hunting and fishing and find plenty of deer, wild turkeys, pheasants, ducks, rabbits, quail, coons, possums as well as trout, bass, salmon and other game fish. Farmers are plowing here now and I hope to have my land all under cultivation by March 15. Yours truly—Fred Barreith, Saline, Mich.

Carter County Land and Fruit Co.

Chilton, Mo., February 5, 1910.

Gentlemen:—I had the pleasure of receiving one of your booklets describing your land in Carter County, Mo. I confess I was interested in your statements contained therein and decided to make a visit and look the land over. THE STATEMENTS IN YOUR BOOK I FOUND TO BE TRUE AND NOT NEAR AS STRONG AS THE PROPERTY WILL STAND. Five of us went over the land together, and to show you what we thought of it, bought 1,100 acres. Each of us have fine farms costing but \$10.00 an acre. The same quality of land north of the Missouri river would cost us not less than \$50.00 an acre. I consider it the greatest bargain I ever saw and I have backed my opinion by buying, as everyone does that sees the property. Grass on the tract in many localities is eight feet high and the entire tract is covered with as fine a blue-stem grass as grows in any country. The weather is fine and the best of spring water can be had all over the entire tract. I will be pleased to answer any inquiries regarding this land, but if a man would go and see the land it is safe to get that he will buy. Very respectfully—C. J. Gibson, 4261 Walnut Street, Kansas City, Mo.

Free Book



Write Today
A Postal Will Do

Carter County Land and Fruit Company

Desk 2

VAN BUREN, MISSOURI

(Formerly Bank Commerce Building, ST. LOUIS)

\$7.50 Buys the World's Best

Horse Clipping Machine

Farm horses need clipping occasionally. Horse experts say and prove that. They work better, sleep better, and keep in better condition when the thick coat of hair is removed. They are less liable to catch cold after a hard day's work as they dry out quicker. \$7.50 is for the Stewart No. 1 complete, ready for use, and includes six feet of highest grade flexible shaft and the famous Stewart One-nut Tension Knife.

CLIP YOUR HORSES WITH A STEWART

If you want a low priced machine we can sell you one for \$5.00. This is the best machine made except the Stewart No. 1. If you want the BEST VALUE, you NEED the STEWART No. 1 BALL BEARING Horse Clipping Machine.

Complete for \$7.50

We have made the Stewart so that any person can clip horses by guiding the knives over the horse while the crank is turned. We have made the Stewart durable enough to last all time by enclosing working parts away from dirt and dust, and cutting the gears from the solid steel bar and making them file hard. We have made it of so few parts that we can sell it for \$7.50, the lowest price ever made on a truly good clipping machine.

Order from your dealer or send your order and \$2.00 to us and receive machine C. O. D. for balance. Catalog on request.

ORDER TODAY

CHICAGO FLEXIBLE SHAFT CO.
234 Ontario St. CHICAGO

Lump Jaw

The first remedy to cure Lump Jaw was

Fleming's Lump Jaw Cure

and it remains today the standard treatment, with years of success back of it, known to be a cure and guaranteed to cure. Don't experiment with substitutes or imitations. Use it, no matter how old or bad the case or what else you may have tried—your money back if Fleming's Lump Jaw Cure ever fails. Our fair plan of selling, together with full information on Lump Jaw and its treatment, is given in

Fleming's Vest-Pocket

Veterinary Advisor

Most complete veterinary book ever printed to be given away. Contains 192 pages and 69 illustrations. Write us for a free copy.

FLEMING BROS., Chemists,
210 Union Stock Yards, Chicago, Ill.

A Treatise on the Horse, FREE

KENDALL'S
SPAVIN CURE

Thurmont, Md., Jan. 27, 1909.
Dr. B. J. Kendall Co., Enosburg Falls, Vt.
Dear Sirs:—I had a horse with Bone Spavin. It was so serious that I could hardly get her out of the stable. Used two bottles of your Spavin Cure and she is as sound as a dollar.
Chas. J. Powell.

Kendall's Spavin Cure

Bests them all for Spavin, Ringbone, Curb, Splint, Swollen Joints and all Lameness.

\$1 a bottle, 6 for \$5. Buy at your drug store and ask for free book, "A Treatise on the Horse," or write to—
Dr. B. J. Kendall Co., Enosburg Falls, Vt.

Don't Have a Blind One

Wonderful
Discovery

"VISIO"

MOON BLINDNESS
and all Diseases of the Eye
successfully treated with
this NEW REMEDY.

Money Back if it fails to cure. \$2.00 per bottle postpaid on receipt of price.
Visio Remedy Ass'n, Dept. D, 1933 Wabash Av., Chicago, Ill.

WANTED--Farmer or Farmer's Son

With rig in every county to introduce and sell family and veterinary remedies, extracts, etc. Fine pay. We mean business. We want salesmen in all states. Write us. SHORES FARM REMEDY CO., TRIPOLI, IOWA

When writing mention this paper.



PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

BRUISED SOLE.

I have a mule, seven years old, weight about 1,350 pounds, that has the frog in her foot bruised. Can you tell me what to do? I am using flax meal poultice, boiled in vinegar. She also walks a good deal on the heel of her foot. What kind of a shoe could I use, or would it be necessary?

Do not use poultices of flaxseed meal. Have the horn pared thin where the bruise can be noticed and then soak in hot water three times a day and afterward put on antiphlogistine or other plastic dressing. When the inflammation subsides put on a bar shoe over tar and oakum and a thick leather sole.

COLLAR SORE.

(1) I have a bay horse, twelve years old, that has a sore on the shoulder caused from the collar. It has been there about three years. In summer it is open, but in winter it heals over, but does not grow over with hair. Will you please give me some remedy? (2) I also have a bay horse, ten years old, that won't shed until very late in the spring. Will you please give a remedy? (3) Have several draft horses that I intend to fatten for market. Can you give me anything for this purpose?

(1) Have the sore cut out and then treat as a common wound by wetting two or three times daily with a lotion composed of one ounce of sugar of lead and six drams of sulphate of zinc in a pint of water. This is the only effective treatment in such cases. (2) Mix flaxseed meal in his oats and bran towards shedding time and blanket heavily when he takes exercise. This will cause the coat to "shed." (3) Have their teeth attended to by a veterinary dentist. Feed oats, ear corn and bran along with clover hay. The Illinois Experiment Station at Urbana recently published a useful bulletin on this subject.

ELEPHANTIASIS.

Would you kindly advise me if anything can be done for a big leg on a horse? It was caused from a sprain in the ankle. The swelling remained entirely in the ankle for some time, then as the ankle grew larger the swelling went farther up the leg, until now the ankle measures about twenty-five inches around. The leg is not nearly as large. About four weeks ago there were a number of what appeared to be boils, and while these were gathering he lost his appetite and became quite poor and appeared to be suffering pain. After several days the gatherings broke and they have been running ever since. The horse looks bright and doesn't seem to be in any pain now and the swelling has gone down some. The horse is a large bay and is about twelve years old. We have been bathing the sores with carbolic acid water.

There is no cure for this "elephant" leg, as it is called.

GREASE—MOON BLINDNESS.

(1) I have a gray horse colt, four years old, that has something similar to scratches. I had the veterinarian look at it and he gave me something for his blood and also some liniment to rub on, but it has done no good. It seems to dry up and then break out again and on one leg it has spread up as high as the hock joint. Sulphur seems to do it the most good. It has been this way for about three months. He seems to eat all right and is in fairly good flesh, but his hair does not look good. The discharge that comes from his legs is gummy and his legs stock when he stands still. The veterinarian told me to use him. (2) I have a four-year-old colt, gray in color, that has something similar to moon eye, but the cords are swollen and have knots on them. They go down when rubbed and sometimes he can hardly see and at others he seems to see all right. Is there anything I can do?

(1) In such a case it will be important to make sure that the disease is not glanders. To at end a qualified veterinarian should be consulted. If it is grease give half an ounce of Fowler's solution of arsenic night and morning and keep the affected part of leg saturated with a solution of concentrated lye. Use the lye very weak at first and gradually strengthen as found necessary. (2) There is no cure for moon blindness.

RUPTURE.

I have a two-year-old filly (mare colt) that has a navel rupture. Have had three unsuccessful operations; two of them were done by clamping the

loose skin very tight and letting it heal up. The third was made about six weeks ago by throwing the colt and putting the intestines back, gathering the skin together as tight as we could and putting two ten-penny nails through the skin as close to body as we could and then we wound with a strong cord between nails and body. All failed; the hole in the abdomen walls is about as large as a goose egg and is round. The filly is a valuable one and any information would be appreciated.

This is a case for a skilled veterinarian to handle and even then he may find it difficult or impossible to effect a cure now that the part has so often been imperfectly treated. It is not a case that home treatment will be likely to remedy.

UNDESIRABLE HOG.

I have about 150 hogs and one of them bites the tails off of all the rest. He has bitten the tails off of nearly all of my herd. Is there any remedy?

Cut the head off the biting hog. There is no other remedy unless you care to keep the vicious brute by himself.

LAME HORSE.

I have a dapple gray horse, seven years old, that got hurt last September. I think he tried to roll in the stall because the hair was rubbed off his hip bone and other spots. When I put him in the team that morning and started for the field he favored the right hind leg. I did not think much about it at the time, but in starting him up after resting him in the field he seemed to be pretty sore and when I put him in the stable he held his leg up about all the time. I examined his leg and the only place he would flinch was at the stifle joint. I rubbed it with liniment and the second day after that I rubbed it again. After three applications it was pretty well blistered. I greased it well and let him alone for three or four days, but he did not improve any, so I called in a veterinarian and he pronounced it some kind of meningitis; the meaning, as near as I can make out, is the breaking of the skin around the joint that holds the oil. He gave me some liniment at the time which I used about two weeks and then I called

on the doctor and told him the horse was a little better, but still held up his leg. He gave me other liniment which I used for a couple of weeks, when I called on him again and told him the horse was a good deal better, but still held up his leg once in a while. He said to let it go for a while and he would call and see him, but he never came and for about two months nothing was done for it. About four weeks ago I began using the white liniment which is chloroform, turpentine and ammonia, each one ounce, sweet oil and gum camphor each one-half ounce. In making him step over from one side of the stall to the other he does not favor the leg any, but every now and then he will lift the leg up and hold it up for a while and when he puts it down he sometimes lifts the other one. About six weeks ago I removed all his shoes and trimmed his hoofs. I noticed at that time that both the frogs on the hind feet are gone. It looks as if they had rotted off down to about the level

(Continued on page 41.)

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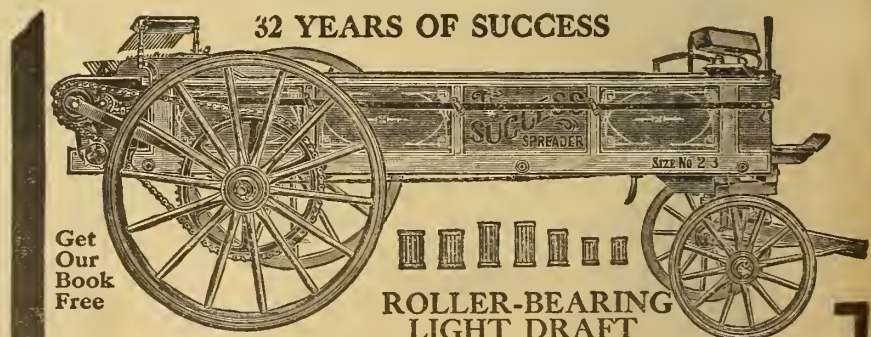
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Department of Animal Industry,

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"HE DIDN'T KNOW BEANS."

Every few weeks we read of some postmaster or other official who has gone wrong in using money that has stuck to his fingers somehow while in transit, and they remind one of the young student in a western college town.

Together with half a dozen others he was boarding himself in bachelor quarters doing their own cooking and using all in common, one room for a sitting and lounging room. They had, of course, the usual complement of musical instruments, games and paraphernalia of the average American boy, among them a large bass viol, which was kept in a wooden case.

The young man referred to was of an intensely nervous temperament, so much so that he was always getting "scared to death" on all possible occasions, which finally culminated in his demise for sure. He was invited by a young medical student to visit the dissecting room one day and finally with much trepidation accepted. It was a chamber of horrors to him, the gruesome scenes nearly driving him wild.

Returning a little after dark to his rooms he found them deserted and on going into the lounging room a scene met his eye that fairly paralyzed him, for there on a long table was a coffin, and in it the corpse of an old man with long white hair and beard. He attempted to flee from the room, but the knob had been broken on the door and it stuck fast so he could not open it. Screaming at the top of his voice he fled to a window and jumped. In some manner his feet became entangled in the curtain and falling on his head he broke his neck.

The coroner was called and an inquest held, when it was found that the coffin was the viol case and a sack of beans had been left in it by some of the boys who had been picking them over to cook for their meals. To his distorted fancy the semi-light had made the beans look like the face and whiskers of an old man, and the long case was to him a veritable coffin, for he had been keyed to such a pitch all day by the sight of the human cadavers, that they actually represented a corpse in a coffin.

The coroner's jury, after long and mature deliberation, brought in a verdict that the young man died because "he did not know beans when the bag was open."

The official who cannot control and handle money entrusted to him without having it stick to his fingers is entitled to the same verdict given in this case, whether the defalcation be great or small.

Been to the Dentist's Lately?

In no field of modern science has greater strides been made than in dentistry. The dentist's field is composed of a large acreage, he has a strong pull, and the openings that are presented to him are varied and many of them large in possibilities. He usually does his work with great pains, and has made a howling success of the business.

In ancient times men were selected in each community to extract teeth, which was done by striking them with an ax and if by chance the tooth was extracted without killing the patient it was an accident and the man who performed the feat was called an accidentist. In after times, improved by time and enlightenment, a hammer and a cold chisel were used and the prefix was dropped, making him a plain dentist.

When a dentist gets a lookingglass, one hand and a pair of forceps in your mouth and then asks if it hurts, proper etiquette is to make a slight bow, dropping the hands to the side and say: "Quite excessively, yes," or, "Yes, indeed, excruciatingly so." This always makes him smile and is a feat in articulation that you are always proud of. A hollow tooth is always a delight to a dentist, because nature abhors a vacuum and he is a child of

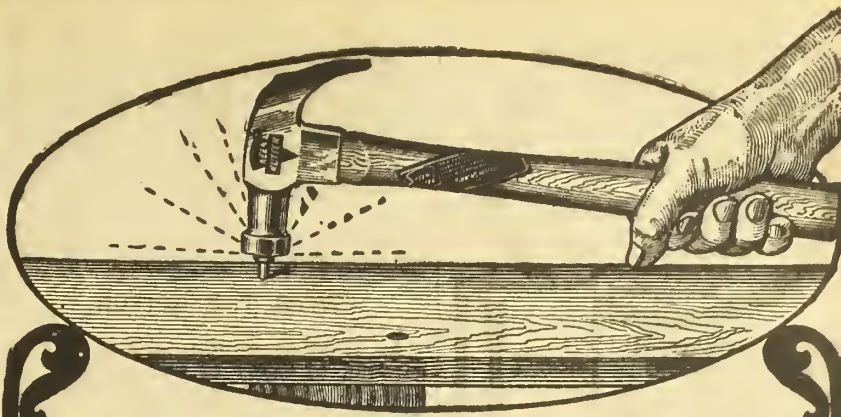
nature. A dentist's chief instruments of torture are gimlets, brads, punches, picks, spikes, prods, and pries, with several others that he uses in extreme cases. The dentist does not use so many large words as the regular practicing physician, but he has a few that can be articulated safely where a part of the teeth are missing in each jaw. These are hard to spell, but they get right at the root of things when you do spell them.

A dentist is never superficial; he gets at the root of the matter. They are like the sails of a boat, they draw and fill. When he draws it is not on his imagination nor on yours—it is real. He is a man of push. When he pushes his forceps into your mouth, tongue cannot express your feelings. There is no room for it to do so. Good dentists are rare, but this is not right. They should be boiled clear through. Dentists wouldn't use so many hard words as they do if they had to spell them first. Dentists have no license to murder; that is the reason why they always stop pulling just before you are dead.

A dentist has no right to put more than one hand in your mouth at a time. He has to keep one free to scratch his nose with. However, there is no law that prevents him from changing hands at will. It takes but a few minutes to reduce a cavity to a minimum and about the same time to reduce your pocketbook to a "thank ye, mum."

It is better to be a horse doctor than a dentist, for when a horse doctor's patients kick he can rope 'em; when a dentist's patients kick he has to put more lookingglass in their mouths and tell them a pleasant story. When a horse doctor loses his patience he says cuss words. When a dentist loses his he is sued for \$10,000 damages for malpractice and kicked out of the church. Yes, it is better to be a horse doctor than a dentist.

After all, dentists are useful. They are the only ones who will stand still and let you tell all you want about that tooth—how it aches by spells but not when you are within a mile of a dentist. They don't pretend to cure by absent treatment; in fact they want to be present to an overwhelming extent. You need never lose a single tooth, or a double one, if you tell the dentist about them. He will find every one of them. He will tell you that double tooth will come out singly, and that the biggest fool on earth has just as many wisdom teeth as the philosopher. If a dentist has a secret by which he can make a front tooth look better than anyone else can, he can't keep the secret, for it is soon in everybody's mouth. When a dentist dies it is usually from old age.



A Hammer with a Name

You wouldn't buy a cream separator or a plow that didn't bear the name of some reputable manufacturer. The same judgment should forbid your buying nameless tools of uncertain quality. The name and trade mark found on all



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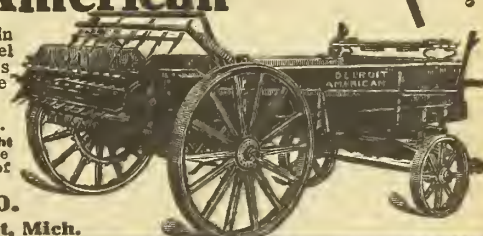
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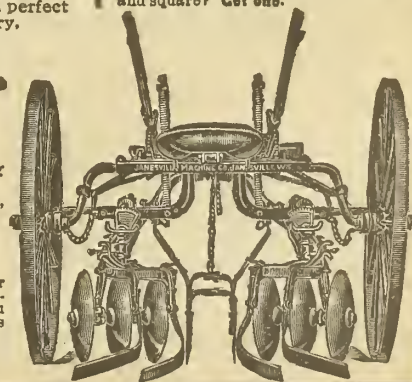
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WITH THE EDITOR.

As it is even now late to talk of gardens to many of our readers and quite time for all if the object of talking about gardens is to be accomplished we give the space usually devoted to editorial again this week to the essays which won prizes in the recent competition.

Attention is drawn to the fact that the essays of this week give prominence to fruit, shrubs, flowers and vegetables. The farm garden should have all four. I wish we might also have had something about vines. Climbers add so much of beauty and comfort to the premises that they should be cultivated much more generally than is the case.

FRUIT AND VEGETABLES.

When we moved to our present home, almost thirty years ago, we found the fine orchard, garden and even the dooryard had been used as a pasture. In the upper part of the orchard were twenty-five roots of the Concord grape. They were carefully transplanted in two rows through the center of the garden and along one side. They have required but little care and not once have they failed to give us the fruit which we all enjoy. On one side of the grape vines are red and white raspberries, red and white currants and gooseberries. In one corner were set twenty-five strawberry plants which soon furnished us fine large berries.

As the ground is very rich all the care this part of the garden has needed, is a good mulch to keep the weeds down, and it gives us a succession of fruit throughout the spring and summer. The other half of the garden we use for vegetables and flowers. There is a row of rhubarb next to the grape vines, then a row along which wire netting is stretched for sweet peas. Next to this are two rows of ever-blooming roses, dahlias, gladioli, etc. The rest of the space is filled up with celery, tomatoes, peas, beans and other vegetables. Everything is planted in straight rows and cultivated on the dust mulch plan. With a good garden plow, the whole spot can be cultivated in a short time. Kept in this way, the vegetable garden is as delightful to look at as the flowers. Though we have the amount of work that is usual on a large farm, none of us ever get so tired that a walk through the garden in the evening, to see how it has grown during the day, does not give us pleasure; nor do we ever fail to come back rested and refreshed in both body and mind.

Nothing that we have given the same amount of time and strength, has repaid us more than our garden, which has furnished us abundantly with fruit, vegetables, flowers—and pleasure.

O. Logsdon.
Brookfield, Mo.

FLOWERS UNDER DIFFICULTIES.

All my life I had longed to have a garden of perennial flowers and shrubs. Ten years ago I began collecting hardy plants and planting them in an abandoned vegetable garden, where apple and other trees had grown so large, and shaded so much that vegetables would no longer grow. It was not a good place for flowers, but was well fenced.

Many of my plants like Sweet William, grass pinks, aquilgia were grown from seed. Every spring I bought a few roots of hardy kinds, trying to learn all I could of the culture and propagation of each new variety and I would soon have some extra plants to exchange with others who had some kind which I did not have. I could not plant my roots in good order, as the ground was dead furrowed between the trees, and quickly sodded over to blue grass, so plants had to grow here and there,

where the water would not stand, and the sunshine could reach them.

I bought some of the best colors of perennial phlox and found that when several colors were grown together they produced seed freely, too freely, and that the seed grew as readily as radish if planted as soon as the pods turned yellow, and covered lightly, they came up almost as soon as the snow was off and if the soil is rich, bloom first year, and some nice new shades were produced. They are seldom just like the old plants. Peonies, I have nearly forty, bought some, exchanged some and some are seedlings from my best plants. Peonies are best set in fall. Snowball is easily rooted by bending down a branch, covering a part with soil, then lay on the soil a stone, brick or sod, leaving the end of the branch uncovered and tied to a stake so the wind will not whip it about and uncover it, the next spring it will have roots two feet long. Syringa roots as easily as willow from cutting or bent branch, spirea, hydrangea, and honeysuckle bush or vine, Crimson Rambler and other roses and shrubs can be rooted the same way. I have many fine clumps of German iris and some other iris. The German iris is as hardy as a peony and as sure to bloom and though not so showy are fragrant and beautiful. There are many colors, the white and light colors are very fine. Bluebells do fine under a tree. There are tiger lilies and corn lilies, double and single in large clumps, day lily white and blue, lemon lily, orange lily, lily of the valley, fall anemone, Shasta daisy and Marguerite, bleeding heart, garden heliotrope, hibiscus, crimson eye, and many other things. Some I do not know a name for, but all eagerly looked for in their season. The ground is covered all around the plants with straw, leaves, lawn clippings, old stalks and every such thing I can get to keep the weeds down and hold moisture in summer. I enjoy my flowers greatly and some day when I can no longer plant, there will still be well-established shrubs and flowers to walk among and enjoy each recurring season, and if not for me then for some one else. We also plant that other may enjoy them, too.

Allison, Iowa. Mrs. Rose Bates.

SHRUBS, FLOWERS, VEGETABLES.

Finding ourselves in a new home in the sunny climate of the Texas gulf coast, with a level sandy soil all about us, the instinct for gardening has been awakened early. While our plans may not work out as satisfactorily as we think, yet it is something to have a plan to work to.

As the garden and lawn lie side by side they are fenced together with picket fence, painted white to match the house. A low hedge of Cape Jasmine having an arched gate in the center separates the two. The lawn is set to Bermuda grass and contains a large number of choice semi-tropical shrubs and trees, but all flowers of a more delicate nature are left for the garden except the few which need to grow in the shade. For these pansies, violets, etc., there is a long narrow bed on the north side of the house. The garden proper is 75x90 feet. Next to the fence on one side is a row of rhubarb and three rows of strawberries.

Next come the early vegetables, radishes, onions, lettuce, beans, peas, beets, peppers, mustard, parsley, turnips, all planted in rows about two and one-half feet apart to make them more easily cultivated. Next these rows is a long narrow bed for planting cabbage, to nates, cauliflower and such things as will want to be transplanted in rows later.

Leaving now a space for later vegetables we go to the opposite side and begin our flower garden. The garden fence here is to be utilized for the climbers, sweet peas, balsam apple and

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Different from all others. 4 or 2 horses. Ground 10 to 1 or 1 to 1. Ground Corn with chucks or without. And all small grains including Oats and Wheat. (Also make 8 sizes belt mills.) S. N. P. Bowser Co., South Bend, Ind.

cypress, with a short distance hidden by the hollyhocks and cannas. In front of this high background will be the tube roses, dahlias, chrysanthemums and poppies. In the beds below will grow nasturtiums, phlox, asters, bachelor buttons and all other varieties the family purse can provide and the combined spare time of the family care for.

As the early vegetables pass their day of usefulness and the space left for late vegetables is filled, late cabbage will be set out between the bean rows, tomato vines between the old pea rows. Early turnips will give place to late ones and all available space filled up. In conclusion, while the planning has given us a great deal of enjoyment we hope for still greater enjoyment and not a little profit by carrying out the plans.

Laura Davies.

HOME AND HOMEMAKING.

EASTER GREETING.

In earth, and air, and sea, and sky,
Reviving life appears,
And speaks of youth when hopes were high,
And eyes undimmed by tears.
Mysterious forces rise and play
In budding shrub and tree,
And kindle thoughts this Easter day,
Of immortality.

The story of that Easter morn
Contains for you and me
And all who live and will be born
In all the time to be,
A gracious message full of peace,
That gives the spirit rest,
Assured that life will never cease,
But be forever blest.

—A. P. Rittenhouse.

SYMBOLISM OF EASTER EGGS.

It has been asked why an egg is the symbol of Easter. The use of eggs for Easter can be traced to the theology and philosophy of Egyptians, Persians, Gauls, Greeks and Romans, among all of whom an egg was a symbol of the universe, the work of the Supreme Divinity. The Persians gave presents of eggs at the vernal equinox in honor of the renewal of all things. The Jews adopted it to meet the circumstances of their history as a type of their departure from Egypt, and it was used in the feast of the passover as a part of the furnishing of the table with the Paschal lamb. The early Druids also used the egg in their ceremonies.

THE EGGS.

See the pyramid of eggs—
Easter eggs!
What a host of recollections they invoke of yellow legs!
How they pile, pile, pile,
In the baskets and the cases,
While the grocer, with a smile,
Tells you eggs are now the style
In all fashionable places!
See them climb, climb, climb,
In their prices all the time
As they keep accumulating in the boxes and the kegs
Of the eggs, eggs, eggs, eggs, eggs, eggs,
With a seasoning of storage warehouse eggs!

—Chicago Tribune.

AMONG OURSELVES.

The Easter greetings brought by our friend, Eleanor Moore Scott, remind us of the joys of springtime and their high significance to the heart which looks beyond the material. The same uplifting thought is presented by the greeting in verse presented in the Home and Homemaking section. Our thanks are offered both the friends who have thus brought to some who might otherwise have missed it the breath of Easter-tide:

To the friends of the Home Department a joyful Easter: After long months of winter with frequent storms, many days of cloud and darkness, how cheering the thought of approaching spring, with genial sunshine, the putting forth of the tender herb, the return of robin and bluebird. Nature awakens. The dear violet, and windflower, will bloom in the accustomed places; we will find them unchanged, their beauty and fragrance, as of yore, touching to inward music the same responsive chords of our being. Love faileth never. "Sure of the spring that warms them into birth," we know the tiniest seedling will sprout, the upspringing sap respond, the dormant life of field and forest come forth into renewed expression. "Because I live, ye shall live also," is the eternal mandate. The Resurrection miracle is once more unfolded to the enraptured vision. Hope waneth never! In Him we have joyful resting places, beside cooling fountains where ceaselessly floweth the water of life. Joy speaketh ever! In the quickening impulse of life is manifested the infinite love, and we know that now abideth these three, hope, faith and love, forever!

Two letters prompted by the troubles of "In Despair" are before

me. As education is such a very important matter I shall give them precedence over other topics this time. Miss Miami's letter first:

I, too, have been a silent reader of the letters written and have taken much interest in them, and as I am a teacher, I am very much interested in "In Despair." There is nothing in this wide world that can compare with an education. And it will never be more appreciated and more thoroughly understood, than when worked for. By working for our education—I mean we should not be too dependent upon "pa" or "ma." Some of our best students have "worked their way" through college. They have done work outside of recitation and study periods. In regard to high school privileges, I should think it advisable, after the child has finished the district school, to send the boy or girl to some good academy or preparatory school. While going through high school, I just "skimmed" it, as the saying is. I now see how much I did learn in high school, but, I believe if I had spent that time in a good academy, as I did the two following years, I would have had a better education than I now have, and I am still young, just twenty. I would say never send your children to a city school. There is too much of a tendency among our young people to go to the city to make their living. It is our duty, as teachers and parents, to educate them to stay "out on the farm." For what is more honorable, less tempting, and a more comfortable life, than that of a farmer?

The point that pupils get more benefit from study at an academy where there is constant supervision is one we might profit by considering further. And now Mrs. Lillian:

Among my friends is a boy who is getting an education in spite of poverty and parental opposition. Since he left grammar school, a boy of sixteen, he has earned every cent of money used in his behalf. He is now through high school, with honors, a good student, and an athlete who carried the high school colors to victory many times. To do this he had to drive delivery wagons, pitch hay, do janitor work or anything else he could get to do, and on top of all this he entered the social life of the high school as well. At present he is at one of California's largest universities washing dishes for his board and lodging. He is honored and respected by all who know him, and surely some day his hard-headed, hard-drinking father will wake up enough to be proud of his son. In a graded school, children are not "held back" by less brilliant children. One grade a year is enough. Those who fail to do the work stay in the grade another year. The successful ones are promoted. The tendency to "cram" children is growing every year, and the evil results are quite apparent if you take the trouble to learn how many children fail to finish high school because of nervous break-down. In my opinion a child should not start to school until eight years old. Give their bodies a chance first, then their mind will not wear out the "house" it lives in. American children live too hard, as do their elders. It's time the American people awakened up, that they may give their children a square deal in health and education.

There can be little doubt that ambitious parents do sometimes urge children to their loss. A mother should understand that better than any amount of "marks" is a healthy body; that her girls especially should not be driven so that they overtax themselves during the years when they should be storing energy and strength for the duties of womanhood.

Right here we shall have some thoughts from Mrs. Victoria Christie, who is always sure of a welcome Among Ourselves:

Do you remember the Virginian telling Molly that when two were "hitched so awful close" it was the little everyday rough places that irked and galled, and not the big differences? I am not sure I have quoted him literally, but am sure I have the spirit of his philosophy right. Another saying of his also occurred to me in connection with the story of Josh's Sootiness, "I guess husbands are a special kind of men." My little sermonette shall have these two sayings for its firstly and secondly. I have pondered the firstly a good deal. It arrested my attention when I first read it; brought me to a standstill with much the same abruptness as a pistol shot, probably because I had already hammered out the thought in my own mental smithy, but had not yet put it in the shape of words. It is the little things, the trifling faults of human character, that cause the most friction in the home. How to be "livable," to get rid of your little vexing ways, cover them over so your associates will not feel their sharp edges, and yet keep your individuality intact, that is a rather large proposition. It is possible to be so easygoing, so ready to yield your own desires to another's, as to cease to grow yourself, or actually to retrograde, and at the same time do an injury to the one whose pleasure you make your own. Don't we all know women too easygoing to train their children right or keep their homes in proper order? When we criticize them we add apologetically, "but she is good-hearted." Yes, but she need not lose her mental powers in cultivating a good heart. For her daughters to grow



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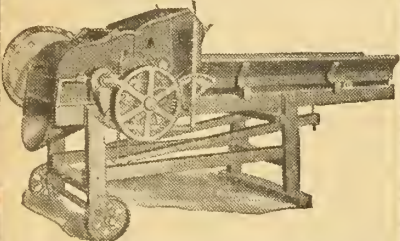
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up slovenly housekeepers and her sons to fail to learn self-restraint will cause more discomfort and shame than that good heart of hers can take account of. To love your family and friends, to serve them unselfishly all your days, and yet in time when your will can change the current of their lives to be sufficiently intelligent to grasp the opportunity and deny them present pleasure for the sake of future profit to their character, that, I take it, is to fulfill the Biblical requirement of looking well to the ways of your household. My quarrel with Lou Frances is that she let Josh go thirty-five years before trying to help him soften that sootiness. A married woman's full duty is not done unless she helps to make her husband a model man for his boys to admire and allows him to help her make herself a model woman. I doubt, in spite of the Kingston husband having an extra dose of sootiness, if Lou Frances could not have prevailed on Josh to shed that particular fault of his, or at least have toned it down 99 per cent, had she had the foresight to see the misery it would cause if allowed to develop; and the cleverness to study the "case," diagnose it properly, and know the remedy "indicated." Secondly, if husbands are a special kind of men, I believe it is equally true that wives are a peculiar brand of women. I am reminded of a recent conversation with a girl friend of exactly my own age. We had discussed various causes of friction in married life, and I had given her one little incident out of my and the good man's experience. "And are all men like that?" she said. "Do you have to study their peculiarities and try to have things go so they will stay good-natured?" "Yes," I said, "unless you want your home life to be miserable." "Then I'll never have one of them, if that's what I'd have to do with him." "But there's another side," said I. "You see he must study your peculiarities, too, and learn how to keep you happy." That didn't seem to comfort her any, and it set me to thinking. If I had not married, would I have been likely to think as she did? I had to admit it was very probable. A girl's freedom means so much to her that the whole thought of any harness is irritating. It's the old story of thinking the yoke a burden, when it only helps to ease the carrying of the burden. And so I say wives are a special sort of women, with special faults and special virtues. After all the Bible puts the whole truth in a nutshell when it says, "And they shall be one flesh," each incomplete without the other.

It is the fate of a Home Department editor to come in contact with a considerable number of women who, having failed to hold the love of their husbands, are pessimists where marriage is concerned. Because of this it is a gracious relief to have a woman come Among Ourselves who is so wholesomely happy and optimistic regarding marriage as Mrs. Christie.

Perhaps what she has said will throw light upon the problem of "Undecided," who is to receive attention from "One Who Knows" and "Nameless."

I have taken this paper for a number of years and enjoy the Home Department very much. I have written but one letter for this department, but when I read the letter from "Undecided" in the February 24th issue, I thought that I ought to write, as she especially asks for advice from one who has had experience, so will give her mine. When I was nineteen years old I married a childless widower of thirty-five years. Like the gentleman in "Undecided's" case, he did not appear old, not looking a day over twenty-eight. I have never been sorry that I married and the only thing that has ever worried me, about the difference in our ages, was the thought that I might be left alone earlier in life than if we had been nearly of an age. However, I have not let that thought darken my happiness and am sure I have been as truly happy as if there had been but six instead of sixteen years between us. My husband has kept his heart young, has always been willing to accompany me any place I wished to go. In fact, I cannot see but we have had as much enjoyment out of our life as any of my companions who were married about the same time and to young men. So much depends on the man. Some are in their prime at the age of forty-six while others are broken down by hard work or ill health. One case has come under my observation where a widower of forty-five married a girl of twenty-five and they have always seemed very happy and I have never heard of their being otherwise, and have known of them all of the twenty-two years since they were married. So I would say to "Undecided" if the gentleman is strong and well and you are sure of each other's love, do not let the difference in age separate you.

But just as one swallow does not make a summer so one experience is an unsafe guide. Listen now to the words of "Nameless."

I cannot help but be interested in "Undecided," and her question if there is too much difference in their ages, when she is twenty-six and the man forty-five. I will not tell but just a glimpse of my married life, just enough to show why I think the difference in age too great; at least I think that the greatest cause for my unhappiness. Maybe I should say ours, for surely a man in the frame of mind my husband has been in the greater part, cannot be

altogether happy. I was raised very strict, my parents not believing in dances, theaters, or such things, even neighborhood parties being reluctantly allowed. So when I married at eighteen a man thirty-seven years old I did not know much of the world's ways. Although special care had been taken to bring me up a Christian, and to train me to keep house and tend babies, as both father and mother said that was what all girls should know before everything else. I was not altogether in harmony with their ideas, still having been taught obedience from childhood, I never openly rebelled. Although passionately fond of music, I was denied that until seventeen years old, when allowed to take lessons. When I met my husband he seemed, as this young lady said, in every way a gentleman and he did not seem old. He had seen enough of the world to wish to settle down, and had experience enough with women to know just how to talk to a young, ignorant girl like me so as to put any other young man way off in the background. Having been taught sincerity at home, in fact seeing nothing else, of course I took everything he said as law and gospel. My mother said she felt relieved to leave me in such sensible and kind hands. I knew him almost two years before we were married and not once did he show by word or deed any sign of temper or jealousy. I had never allowed a young man to kiss me, not even at parties, as I abhorred their ugly kissing games. He took me to parties, ice cream suppers and everywhere I wished to go, always considerate and kind. So I felt real happy. But as soon as we were married he changed so completely that I could hardly believe he was the same man. And it seems it started from people telling what a young, good-looking wife he had. He became angry if I expressed a wish to go anywhere. Wasn't my home good enough for me? What pleasure was there in gallivanting around for me? Who was I looking for? and more of that kind. He suspected every man, married or single, to have covetous eyes on me. And shortly before our eldest child was born he shook me by the shoulders so roughly I nearly fainted—for looking at the neighbor's chicken yard. At least that's all I saw. He declared there was a man there. That was fifteen years ago. Always I did something he considered out of place. If I sat and looked out of the window at the garden or anything outside it was: "Who are you looking for?" "Isn't he coming yet?" and so on. He is a good, kind father and the children never know what I have endured, as I never would answer him if he commenced his "rag chewing" in their presence. I am sure had he married a wife more his own age he would have made a splendid husband. If he had married a woman who had seen all she wanted of the world, and known more of the men the match would have been more suitable. One of my neighbors said the other day after reciting what she considered a very hard trial that she did not think I felt one thing below my skin. She said you never grumble or complain about anything. I could have told her if I chose to, that the things I felt like grumbling about I did not care to have scattered as neighborhood gossip and the other daily things are too trifling to bother about. Tears I have shed by the bushel, but no one knows it, and mighty little good they do. I would not write this now, but I

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feel I should, and then my identity will not be known, so I feel safe.

This letter shouts, "Don't." It is easy to read between the lines that the ink with which it was written is heart's blood. But still it does not settle the question. The most important factor in a successful marriage is not similarity of age. And

many a couple who have come to the parting of the ways are almost of an age. Next week we shall go a little farther into this.

Before we adjourn let me ask Laura Davies to send her address that her prize dollar may be sent to her.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

FIRST QUARTER.

Lesson XIII.

March 27, 1910.

REVIEW OF THE FIRST QUARTER.

The gospel of St. Matthew is the most striking instance in literature of "much riches in little room." That the lessons of a half year can be found in it is sufficient illustration of its wealth. It is much more than a mere narrative. It undertakes to historically prove the Messiahship of Jesus. It has been aptly called the fundamental gospel, giving, as it does, the perfect law of the new covenant. Among the emblems of the evangelists adopted by the early church the figure of a man represents Matthew, because he preeminently brings out the human character of Jesus. He is supposed to have written in Judea, and primarily for Jews. His guiding thought is, Christianity the fulfillment of Judaism. His characteristic sentence is, "That the saying might be fulfilled." Thus Matthew contributes an important part to that "sacred stereoscope which gives us a record of our Savior, not in its bare surface, but in its living solidity." Modesty is a pleasing trait in Matthew's character. He withholds his dignified family name of Levi. We must look to the other evangelists to discover it. But he does not secrete his odious occupation. He calls himself, "Matthew the Publican," as if he would magnify the grace of the master who had called him from so base a station. Again, Matthew modestly says, "Jesus sat at meat in the house." We would not know, except from Mark and Luke, that this was a great feast which Matthew gave in honor of Jesus in his own house. Thus he "keeps himself in the background, and shows himself a pure historian, absorbed in the sublimity of his subject." Again, this being an argumentative narrative, the writer does not hold himself rigidly to a chronological order, but clusters events and teachings in a cumulative manner.

The Teacher's Lantern.

John Baptist's self was a sermon; a protest against purple and fine linen. His mission was a last effort of providence in behalf of the Hebrew nation. The difficulty of interpreting the temptation of Jesus is reduced to a minimum if one keeps in mind that Jesus had a true human soul. This was the citadel the devil sought to storm. The public ministry of Jesus burst upon the people who sat in darkness like a moral sunrise. It was a complete bringing to light of the spirit, principles, and effects of the kingdom of heaven. The glory of Jesus' inaugural sermon is, that it addresses itself to the universal human heart. The uniqueness and glory of the teaching of Jesus appears in the fact that he carries his prohibition back of the literal deed to the evil spirit out of which the evil deed springs, and of which it is the expression. At no point is the superiority of Jesus' doctrine to that of the scribes more apparent. Their righteousness was a veneer. It consisted in externals. Jesus set up a kingdom in the heart. Jesus indicates what prayer is not, then affirms its essential character, and finally gives a specific example of prayer. "How shall we live unless we apply ourselves undividedly to the getting of a living?" Jesus anticipates the question. Body is casket of spirit. Creation of latter carries with it support of former. If Jesus called typical men to the apostolate, then Matthew represents busy people. The master has need of such today—those whose industry and efficiency are already proven. The Sermon on the Mount is

no dream of an eloquence now hushed. It lives today. It is in every dialect of earth. Nothing in written speech surpasses it in potency. It is not a system of doctrine or a ritual. It is the inspiration of a life in the soul. It is a kingdom within. That sermon is the touchstone which tells true discipleship from false. It is as if the whole healing ministry of Jesus is compressed in a single paragraph. On the dark background of human misery the pity and power of the master shine resplendent. Sympathy in each instance flowers into helpfulness. Well may the account close with the choral strain of the prophet: "He took our infirmities and bore our sickness." Like so many vivid incidents in Jesus' life, this whole scene is an acted parable. The emergencies of individual and organized life are here pictured; the revelation of personal character in conduct in such emergencies and the supreme authority and power of Jesus. "Thy sins are forgiven." Strange! The same words that fell on the sufferer's ear like seraphs' notes from golden harp clanged discordantly on Pharisaic ear. According to the faith of each so was it. The paralytic sprang to his feet, rolled up his mat, and departed healed in body and mind, while the Pharisees remaining were only filled with envious and jealous cavilings.

DRESSMAKING—No. 69.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

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the shoulders that are among the features of the season. It can be worn with or without the shield and the

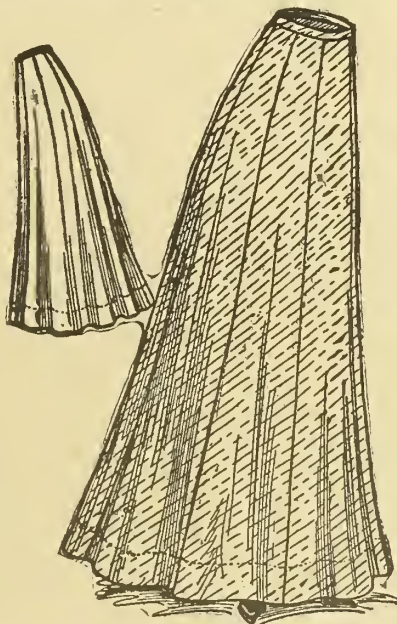
shield can be made high or low neck so that it suits all needs. It is adapted both to odd blouse and to the gown also, and it will be found available for every material suited to so simple a design. Flannel, light weight serge and materials of the sort are much liked at all seasons, but sailor blouses also are extensively worn made from linen, poplin, lawn and, indeed, all simple washable materials. In this case white linen is finished with bands of embroidery.

The waist is made with fronts and back. The plaits are stitched for their entire length at the back, for yoke depth at the front. The front edges are finished with hems and the sailor collar is joined to the neck. The full sleeves can be made either to the wrists or cut off to three-quarter length. When made long they are finished in shirt waist style, and the separate shield is adjusted under the waist and closed at the back.

The quantity of material required for the medium size is 4 1/4 yards 24 or 27, 3 1/2 yards 32 or 2 1/4 yards 44 inches wide with 1 1/2 yards of banding.

The pattern 6577 is cut in sizes for a 32, 34, 36, 38 and 40-inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

The simple, plain nine-gored skirt is one that is always needed. It is admirable for wool materials, it is much to be desired for the washable ones, as it means easy laundering, it provides the long lines that give an effect of slenderness and it is altogether smart as well as practical. This one is made of



[6578 Nine-Gored Skirt, 24 to 34 waist.]

serge and is finished only with a stitched hem. The skirt can be made in round length, however and consequently it is adapted to more elaborate costumes as well as to the simple ones. All skirting and all suiting materials that are adapted to so simple a style are appropriate and linens, poplins and the like are to be included in the list as well as wool and silk fabrics.

The skirt is made in nine gores that are shaped to mean perfect smoothness

over the hips, with comfortable flare at the lower edge. The fulness at the back can be laid in inverted plaits or the skirt can be cut off and finished in habit style.

The quantity of material required for the medium size is 11 yards 27, 5 3/4 yards 44, 5 1/2 yards 52 inches wide when material has figure or nap; 7 yards 27, 4 1/2 yards 44, 4 yards 52 inches wide when material has neither figure nor nap, width of skirt at lower edge 3 3/4 yards.

The pattern 6578 is cut in sizes for a 24, 26, 28, 30, 32 and 34-inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

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\$100

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THE YOUNG FOLKS

A BIRTHDAY EXCUSE.

If it has not been his birthday this would never have happened. On ordinary days Bobby's mother was always ordering Bobby around and strictly forbade him to invite "those abominable twins" over. However, on Bobby's birthday, which was on the 12th of August, Bobby had the very opportunity for which he had longed. His father and mother had been suddenly called, the night before, to the home of Bobby's grandmother who had fallen downstairs and injured herself. The telegram had been urgent and as it did not give a full account of injuries sustained, Bobby's mother immediately thought, "O, she has broken her limb."

Bobby was awakened at two o'clock, a proceeding which he strenuously opposed, and made to kiss his parents good-bye. He cared very little at the time whether they went or not, but in the afternoon of the next day he felt very savage indeed because his grandmother had chosen to break her leg on his sixth birthday, when any other day would have been just as well. No one was at home but Bridget and she was asleep out in the kitchen. Bobby felt very lonesome, so he thought he would ask "those abominable twins" (their names were Pal and Ral) to come over.

He ran across the street to where Pal and Ral were playing "mud-pies," asked them to come over, which they did in a remarkably short time, and soon had them assembled in the dining room. Then began such a feast of bananas, oranges and cake as is not very often seen. After Pal, Ral and Bobby had cleared all the eatables off the sideboard they proceeded to have a good time. They slid down banisters, played "horse" with all the chairs within reach for a coach, broke a couple of costly vases and succeeded in upsetting all things generally.

At last, to complete the general rout and confusion, Pal and Ral decided to slide down the banisters together. Bobby refused to attend them, for he suddenly remembered sundry whippings which he had received for past offenses. The train (Pal and Ral) started down the banister at full speed, Pal emitting a shrill shriek of warning at the start, which startled Bridget from her nap. She jumped up and ran to the hall just in time to see the grand climax, which was a couple of small boys landing in a confused heap on the floor.

"O, for goodness sake," she screamed, "an' what 'as Bobby been a-doin' now?" As soon as she fully realized the state of things, she put a speedy stop to their good time by forcing the twins out of the house with angry slaps and a great deal of scolding. However, when she came back into the house and noticed all the damage done, she collared Bobby and sent him to bed. "'Tis the place for such 'agamuffins as ye are," she scolded. "Can't be good for half an hour at a stretch."

That night Bobby's mother, finding that her mother had only sprained her ankle, came home. Bridget told of all her sufferings with many a tear, but Bobby's father, who is indulgent as fathers ought to be, said conclusively, "Well, well, boys will be boys!" Bobby's mother gasped with dismay when she viewed the destruction which Bobby had wrought, but when she saw Bobby in bed, with the traces of tears on his cheeks, she said consolingly to herself, "Well, birthdays come but once a year anyway, and a birthday excuse is better than none."

Ida Asmann.

A Swing in the Shade.

My home is in the country and about four miles from the village. The house is made of brick and has six rooms upstairs and six downstairs. In summer I am out of doors most of the time, as I have a swing under the shade tree and I sit in that most of the time when I am through with my

work. We have five horses and one little colt and we have four birds and I like them because they make it seem more lively in winter. In summer I like to go out in the woods and gather flowers and berries. The woods are only a little way from our house. On winter evenings we have a nice time playing "Flinch." Grace E. Ogle.

Has Her Own Garden.

I am a farmer's daughter and like making garden best of all farm work. I have one brother and mamma always gives us a patch of ground for our own, so we plant vegetables and flowers in it and of course we have to hoe it to keep the weeds out of it. I don't like a weedy garden and we have to help mamma keep it clean. But I think it fine work and like to see things grow. We have a new house and a new yard fence, so we are planning to have our flowers in the yard this summer. We are going to have lots of sweet peas and are going to put our geraniums and house plants in the ground when it gets warm enough. I live on a farm of 175 acres, a fourth of a mile from school and am in the fourth grade. I study geography, arithmetic, language, spelling and reading. I also have drawing and writing. I don't like wiping dishes very well, but as I am the only girl I have to do anyway, so I hurry through so I can get outdoors to work and play, for I like outdoor work the best. Vergil Phares.

Is Fond of Housework.

I am a girl, eleven years old. I go to a country school and am in the fourth grade. I live on a farm and have a father, mother and sister. My sister is five years old, and she is going to start to school this spring. I am very fond of housework. After I get up in the morning and have dressed and combed my hair and opened the windows I go downstairs, where I practice my music for half an hour. Then I eat my breakfast and go upstairs and make the beds. Then I get ready for school. My papa takes me to school in stormy weather. I don't like to miss school unless I have to. I also like to draw very much. I like to live on a farm better than in town, because I get all the fresh milk and eggs I want, and home cooking, which is much better for our health. After I come home from school I change my dress and help mamma get supper ready and help wash the supper dishes and sometimes go out and play with my sister. Lucile James.

She Loves the Garden.

I like to live on the farm very much. I like to work in the garden and tend the chickens. I like to set the hens in spring and watch every day until the chicks hatch. They are tiny little fluffy things. It is fun to watch them follow the old mother hen and then they scramble to her when she finds a seed or a worm for them. About sundown they come around the house peeping for something to eat, and we give them some oatmeal or some crumbs of bread. After they have eaten their supper they scramble off to bed and are out again the next morning as soon as it is light enough for them to see and they have to be fed again.

Then there is the garden. It has to be dug up in the spring. My brother always does that and he plants the vegetable seeds also. Mamma, my sister and I always dig the flower garden and plant the flowers. I have a little flower garden of my own and plant some flower seed every spring. I like to look at the seeds every day and see when they start to grow. At first I can't see anything but the little black seeds. After a while small green sprouts begin to appear. I do not dare to look at them after they begin to sprout for if I do I might break the sprouts off. In a few days two green leaves peep through the ground. The plant keeps on growing and after awhile the buds open and the flowers

appear. In the fall after the flower has fallen off and the seed is dry I gather it and keep it until spring and plant it. I also have to hoe the weeds in the vegetable garden and orchard. Olga Jensen.

Going After the Cows.

I am a boy, ten years old. We farm 160 acres. Papa has a hired man to help do the work. Sometimes I have to help him, too. The best work, I think, about the farm is to go after the cows in the summer time. I get the fuel in for mamma and hunt the eggs. I do not have to help do the work in the winter time. My sister and I have the chickenpox. We are just getting over it. We have a dog and a cat. They are both black. We have eight lambs and three colts. All three of them are black, with a little white star on the forehead. We have a white pony, but sometimes he gets black from rolling in the mud. We live ten miles from Waterloo and four miles from Hudson. There are eighteen scholars in our school. Bernice Miller.

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It is the only fence absolutely self-adjusting on rough and rolling ground. The patented "Swinging Joint" is the secret of it.

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WRITE FOR THE TAPE LINE NOW

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VETERINARY.

(Continued from page 34.)

of the hoof. The inner part of the hind hoofs is very soft. You can cut them or scrape them with a knife almost like chalk. There is no swelling on his legs anywhere. This horse is full of life and a fine driver and he cost me a good sum about three months before this happened, so if there is anything you can do for him you will be doing me a great favor.

It appears quite likely that all along you have been applying treatment to the wrong place, as the condition of the feet doubtless causes the uneasiness and pain. Turn the horse out and stop all treatment. His feet will be likely to regain their normal condition after a time if left to nature. At present the rotting is due to thrush and standing in wet manure.

WORMS.

(1) I have a horse that won't keep in flesh. I feed him one gallon of corn chops and plenty of prairie hay three times a day and don't work him very hard, but very frequently there are worms coming out of him. Can you tell me what to do for him? He is an iron gray, weighs about 1,000 pounds and is six years old. (2) Is there any way of curing a wind-broken horse? If not, is there any way of doping him? If so, with what? I would be greatly obliged if you could give me some information on these two questions.

(1) Mix together equal parts of dried sulphate or iron, salt, flowers of sulphur and ground gentian root and give him a tablespoonful in the feed night and morning for a week; then skip ten days and repeat. (2) We do not give advice as to the "doping" of unsound horses. There is no cure for broken wind.

WART.

I have a yearling steer that has warts all over his neck and shoulders and they seem to be spreading. There is a roll under his throat as large as a steam pipe and he is stiff in the shoulders. He eats well, but is getting thin. The first ones came in July. He is red in color. Please let me know if anything can be done for him.

Warts having narrow necks should be twisted out and the bleeding may be stopped by lightly applying a red hot iron. To masses of warts apply pure, cold pressed castor oil daily, rubbing it well in. Give the steer half an ounce of Fowler's solution of arsenic twice daily in water.

ABSCESS.

I have a two-year-old heifer that has a lump in her throat about the size of an apple, and about four inches back of swallower. It makes her throw her nose outward to get her breath. She does not have any discharge at nose. I blistered her throat with turpentine twice and three holes appeared in the skin and a watery pus ran out. She seemed to get better for a few days, but now she is just as bad. She has a good appetite, but loses flesh. Have fed her timothy hay and a little corn. Just before this place broke her breath was very offensive. I could not keep her in the barn. She groans as the breath goes out.

Probably the abscess is due to tuberculosis. This can easily be settled by having her tested with tuberculin. If she proves free from the disease the veterinarian can operate for the cure of the abscess and that should be possible.

FISTULOUS SORE.

I have a four-year-old filly that has a running sore on the lower jaw. The opening is about the size of a lead pencil. Part of the time it runs pus and part of the time a very offensive liquid similar to water. This mare I bought December 8, 1909. I understand that the jaw has been in that condition about one year, caused by a kick. The mare is hearty and doing well. Her jaw does not seem tender to touch, as she eats well. The sore is not open to the inside of the mouth.

Apparently there is either a fistula of the salivary duct or a fistulous tract connecting with a diseased molar or diseased bone of jaw. In either case it cannot be treated successfully at home as an operation will be necessary and for this you will require a graduate veterinarian. The legal aspect of the case will have to be submitted to a lawyer.

FOUNDER.

I have a six-year-old bay driving horse that had a cold the first part of December, but got well apparently, and about Christmas time I noticed that he had difficulty in lowering his head to drink from a tub on the well platform. I did not pay much attention to it at first, thinking it would soon pass away, but now it seems to be worse rather than better. It seems to affect his front feet or rather chest, and shows stiffness and difficulty in turning as though it hurt him in the chest between the shoulders. He eats heartily, but remains thin. I have not driven him for a month. He shivers at times after

having him out to drink. The veterinarian here does not know what ails him, but thinks he will come out all right in a short time.

The symptoms indicate founder and we would clip the hair from hoof-heads of fore feet and blister with cerate of cantharides and repeat in two or three weeks if found necessary. Also give a dram of iodid of potash in water or feed once daily for five successive days a week until the stiffness subsides.

FAILURE TO BREED.

Can you tell me what to do to have my cows come in heat? They have had calves from two to three months and do not come in heat. I have them in a warm barn and feed them ground corn and oats, timothy hay, and they have access to the straw stack and stalk field.

Add bran freely to the ration and if possible substitute mixed clover and timothy hay for the straight timothy hay. Keep them out of the stalk fields. The barn should not be warm. See that it is perfectly ventilated and not over 50 degrees or so temperature when you enter it in the morning and no sensible difference in air outside and inside of stable so far as odor is concerned.

LUNG WORMS.

(1) I have a bunch of last spring pigs that have a bad cough. I gave them santonin according to the method advised in your paper, and they show no improvement. They weigh about fifty pounds each, the hair looks bad and they go around with their backs humped up and look like the whole outfit wasn't worth ten cents. They have a good appetite and eat well. I feed them corn and give them table slops. I killed one of them and found the air passages in the lungs full of fine worms about the size of a pin and ranging up to two and a half inches long. What is the remedy? (2) I also have some Angora goats. I feed them clover hay and about half a pound of shelled corn daily and give them the run of a brush pasture during nice weather. Some of them will cough for a few days, become sluggish and mope about for a few days and then die. They are in good flesh as shown by skinning them. What is wrong and what is the remedy?

(1) There is no effective treatment for lung worms (strongylus paradoxus) of pigs. The only chance in such a case is generous feeding and corn and table slops will not suffice. Feed slop of milk, middlings, oatmeal, corn meal and flaxseed meal and also try to provide alfalfa hay. Corn may be sprinkled under litter in a barn so that the pigs will root for it and so take exercise. Mix turpentine in the slop at the rate of one teaspoonful for each eighty pounds live weight. Give it for three successive mornings and repeat the following week. If you can employ a graduate veterinarian he may possibly use medicines by way of the windpipe using a hypodermic syringe. (2) The goats also may have lung worms and the veterinarian might treat for these in the same way. Evidently a post-mortem examination should be made to determine cause of death. Meanwhile isolate affected goats as there is a contagious disease of goats known as "takosis" which possibly may be present. It is incurable. A bulletin on this disease has been published by the department of agriculture at Washington, D. C.

GARGET.

I have a Jersey cow about six years old, and a good milker. In November she became stiff in her limbs and walked with difficulty. The flow of milk ceased and turned into curds. About a month later she threw a calf and has improved some since then. She eats well and walks fairly well, but her milk has not returned. She gives about half a teacupful a day of thick, curdy matter. What can be done to improve the condition of the cow? Would you advise me to have her bled?

We would advise you to have the cow tested with tuberculin and if she proves free from tuberculosis then better feed her off for slaughter, as it does not pay to treat dairy cows when their udders have gone wrong.

INDIGESTION.

I have a black mare mule coming five years old that has been poor in flesh for twelve months. She eats heartily; am feeding hay and fodder and corn. Her hair is long and rough. She is not hidebound. I also feed stock food. Her bowels seem to be in good shape except that she has a heavy rumbling in the back part of bowels and is always trying to spit the bits out. She is very lazy. The dung is clammy and stinks at times. Please give treatment.

Stop feeding stock food. Have the mule clipped from knees and hocks to line with breeching and breast collar strap and along belly. Stop feeding corn and substitute oats and bran

along with hay, but do not feed fodder. Allow carrots if obtainable. Feed lightly at first and increase food as condition improves. Allow free access to rock salt. Mix together equal quantities of powdered wood charcoal and granular hyposulphite of soda and of this mix one tablespoonful in the feed night and morning.

SOWS EATING THEIR PIGS.

Will you please tell me what is the cause of sows eating their pigs and what is the best thing to feed them in such cases? I have been troubled in this way for a number of years.

The usual cause is crossness and nervousness from improper feeding and management and failure of the attendant to handle the sows so that they may be personally attended to at farrowing time. If owners would stop stuffing sows on corn and feed them mixed laxative rations during pregnancy and make them take abundant exercise every day, besides being handled by the attendant, they would have little trouble at farrowing time and lessen the likelihood of cannibalism. Feeding salt pork is the favorite remedy, but proper management and feeding as suggested is the true preventive.

STAGGERS.

I have a black, ten-year-old mare weighing about 1,600 pounds, that is troubled with peculiar spells. She seems all right in every way except that she is a little nervous when in work, especially driven hard on the road, when she seems to get more than usually excited. She will stop very suddenly, shake her head a little, snort and then turn her head, always to the left side, and then back, all she possibly can for half a minute or so. She will then turn back and walk along as though nothing had happened. This will happen from once a year to once every two weeks or so, and has been going on for two or three years. She is in good condition and does not eat more than usual and seems better when worked steadily. Is this staggers, epilepsy or what, and can anything help to ward off the attacks? If you can give me any information I should be very much obliged.

The symptoms are those of staggers and is due to indigestion from over-feeding and lack of work or exercise. She should have a box stall when in the stable and be worked or exercised every day, wet or shine. Avoid heavy feeding on corn. Feed oats, bran, carrots and hay. Keep her in muscular condition and not fat. See that the collar fits. Medicine will do no good.

KILLING BURS.

To the Editor of The Homestead:

I saw an article in a recent issue of your paper, entitled "Seeding Down Burry Land." In 1878 I bought a farm, most of which was perfectly red with burs. I seeded some of it to oats and some to wheat, then seeded it with clover and timothy. The burs and clo-

ver both came on thick in the fall and just before the burs matured I mowed them. Where they were too thick I hauled them off, but the most of it I left on the ground. I left the land in grass for three years and mowed the clover each fall, and when I plowed the ground again very few burs came up. These I destroyed and now the farm is perfectly free from burs. I have tried this plan on several pieces since and it worked all right.

Subscriber.

LIVE-STOCK LAWSUITS ARE EXPENSIVE.

(Continued from page 7.)

after they appealed and judgment of the lower court was affirmed, January 27, 1891.

When it came to the payment of the trial costs the defendants against whom the verdict stood wished to pay but six-sevenths of them, contending the exonerated defendant should pay his share of the defense. They once more went to the supreme court on this question and the higher tribunal directed the six to pay the total costs of the defense. This last ruling was made December 20, 1894, so the case consumed from the beginning twenty years.

E. V. Miller, Abe Miller and H. D. Keller died about the close of the litigation without property. John Foreman died about six years ago and David Fall three years ago. George Miller is now living in Anamosa at the age of ninety years, with but little property. S. D. Potter is still living in Greene county, but has no property.

Robert Johnson is now seventy-one years old, having been born in Delaware county, Ohio, in 1838. He was married in Jones county in 1861 to Miss Mary Saum and they raised a daughter and son to womanhood and manhood during the progress of the Jones County Calf Case. Concerning the suit, Mr. Johnson, who is wealthy, and recently gave a substantial contribution for the building of a new church, says:

I know I was right in this case. I do not regret the tiresome litigation. My honor and integrity were questioned. It pays to fight under such circumstances. I lost my farm of 160 acres and all my property, but I feel well repaid. My wife, my children and my friends know now I was innocent and I can look any man in the face without a blush.

The dentist is a telepathist and always partakes of the ailment to the extent that when you begin to "holler" he begins to haul'er, too. When he gets hold of a root it is high time for you to grab a root, and when he succors you it is because you are a sucker.

The Difference Between Fetzer Drills And All Other Grain Drills

You might just as well run your wheat and other seed through a coffee grinder as through some of the (so-called) force feeds of many Grain Drills to-day.




Our Booklet (free) shows the famous Fetzer Feed—one seed at a time—no crowding, crushing, breaking or injuring of any kind of grain. If you didn't see our exhibit at the State Fair, we want you to get our book about the Fetzer Grain and Fertilizer Drills—1st prize winners in England and Germany as well as in America for the past five years. We will also give you a

\$1.00 Certificate Free

if you send the coupon at once. This \$1.00 coupon is money in your pocket—a reduction on the regular price. You'll never make an easier dollar than by sending the coupon now. You'll be surprised how far the Fetzer Drills are ahead of all others. Simply mail us the coupon, properly filled out, or mail us a postal for free Book.

THE WILLIAM FETZER CO.
Springfield, Ill.

America's Twentieth Century Line

FETZER GRAIN DRILLS

RICE DRILLS
FERTILIZER DRILLS
CORN DRILLS
SEEDERS
DISC HARROWS
TRANSPANTERS
For Tobacco, Cabbage, Tomatoes and other Vegetable plants
PATENT GATES
Self opening

A (so-called) force feed—breaks the seed.

Coupon

Wm. Fetzer Co., Springfield, Ill.
Gentlemen:—Please send me your Book No. 30 about Fetzer Grain and Fertilizer Drills. Also send me certificate good for \$1.00 on purchase price.

Name.....

Town.....

State.....R.F.D.....



HARVEY BOLSTER SPRINGS

Soon save their cost. Make every wagon a spring wagon, therefore fruit, vegetables, eggs, etc., bring more money. Ask for special proposition. Harvey Spring Co., 733 17th St., Racine, Wis.

FREE TRIAL TO YOU

When writing mention this paper.



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

NODULAR DISEASE IN SHEEP.

The following communication has been received from a subscriber at New Boston, Ill.:

I have a flock of thirty sheep. I fed some corn until three weeks ago and then turned to oats. I fed twice a day three-fourths of a peck to the thirty head. Some stock food was fed. One took sick about ten days ago. It stood around very sleepy and stiff and could hardly walk; would chew its cud at times, drink at times and eat oats at times. Before it died it would grit its teeth. I opened it and found the small intestines full of lumps, some large ones. There was a crumbly substance inside of them of a dark green color. The lamb bag contained lumps of yellow liquid substance. Any information will be gladly received.

The lumps on the intestine would

with all breeds represented and to include goats, collie and shepherd dogs, wool and mohair exhibits, wool grading and sorting, sheep and goat shearing contest, sheep butchering contest, sheep dipping and a lot of other "wrinkles" that will make it interesting and educational. It will not be a fat stock show, although feeding experiments will be conducted in a limited way by the agricultural colleges. It is not intended to compete in any sense with the International. In fact, a number of prominent directors of the International heartily endorse the affair.

In conjunction with this show will be held a combination sale for show, breeding a carload lot of sheep.

of the corn belt seem to know the need of the cows, the feeding steers and the hogs, but we are not awake to the money-making sheep. Few of our farms are rightly or fully stocked without its flock of sheep. No other class of stock can take the place of sheep, and on our farms where a flock is not kept, there is a waste every year, where if a flock were kept it would make good money with little expense and care. Our farms could keep a flock of twenty-five to fifty ewes to the quarter section without cutting down the usual number of other stock and the farmer would scarcely miss the time taken in caring for them. Farmers can learn to grow sheep as well as to grow hogs, care for dairy cows or feed steers.

Some farmers say they would like to have a flock of sheep if they were fixed and fenced for them. If they would get the sheep the wool clip in a year or two would fence the whole farm for sheep and hogs as tight as our farms need. Other men say they would like a small flock of sheep, but don't know anything about sheep. We all knew little about anything once. They should get a small flock and learn. Still others say they do not like sheep. They, also, should get a small flock and learn to like them, as most

getting to be a very serious one. Here is where the flock again is of much value, and no other class of stock could serve the purpose nearly as well. They would clear our farms of weeds, as they will eat most any weed we have, and return to the owner a very good account in wool and mutton, which our markets are offering good prices for. Our farms, many of them, are much less fertile than they once were, and it has been truthfully said that the sheep has the golden hoof by distributing the richest and most lasting fertility of any of our stock.

One great trouble with most men in starting to grow sheep is, that they get too many. Twenty-five to fifty ewes is plenty and he may add as he learns to handle them. Another trouble, some men keep the flock in the same little pasture year after year. They should be changed often.

We hear a great deal about worms in sheep. True, but in proportion to number grown, it seems we lose as many pigs with worms, as lambs. Taking it all in all, year in and year out, sheep will pay farmers as well as any other class of live stock, with less labor, and with less shed cost, and leave the farms well enriched.—(E. L. Bitterman, before Iowa Sheep Breeders' Association.)

The question, "What is a sausage?" is bothering the national food experts. It recalls one of Artemus Ward's famous witticisms: "Whenever I go to a restaurant," averred that primal humorist, "I always order hash. I like to know what I am eating."



IMP AND OWNED BY TRUMAN'S PIONEER STUD FARM BUSHNELL ILL.

THE HANDSOME SHIRE STALLION ILLUSTRATED ABOVE IS ONLY ONE OF THE IMMENSE NUMBER NOW TO BE FOUND IN THE BARNES AT TRUMAN'S PIONEER STUD FARM, OF BUSHNELL, ILL. SEE PAGE 55.

indicate that the sheep had nodular disease of the intestines. The cause of this is a little round worm, but it is hard to learn how they enter the sheep. These little tumors made by the worms on the wall of the intestines cause the trouble. The walls of the intestines are the absorbent organs by which the digested food is taken into the circulation for the support of life, whatever interferes with this function tends to deprive the animal of its due support thus producing a general want of nutrition causing weakness.

It is possible that the remainder of the flock is not affected, but if they show symptoms it would be well to keep them off feed for ten hours then drench each sheep with a tablespoonful of turpentine in half a pint of milk. Repeat this every third day for three or four times. Turpentine will go all through the system and the results are usually very pleasing.

A SHEEP SHOW.

There is a movement on foot to establish a permanent international sheep fair to be held in Chicago some time in September or immediately after the fair circuit is over. This show is to be exclusively for sheep,

The eastern breeders will find an outlet for their high-class stock and also for their commercial sheep. The rangemen will come on to buy rams and breeding stock, and the big western stud flock men will show their sheep as well as the eastern breeders. The English breeders will also cooperate in every way to make it a success. The Flock Register and Wool Growers' Association and the leading breeders and importers are all enthusiastic over the scheme. The Hon. James Wilson, secretary of agriculture, heartily endorses the idea and offers the co-operation and support of the government in every way. The agricultural colleges are enthusiastic and everybody wonders why we have not had it before.

The goat breeders will join and establish a department for their stock. The railroads will give reduced fares and the express companies will make special rate for shipping out stuff that will be sold in small numbers.

IMPORTANCE OF SHEEP INDUSTRY.

There is no class of live stock so neglected as the sheep and no class of live stock is better adapted to our climate and soils than sheep. Farmers

men like that which pays large returns for feed, labor, etc.

We hear complaints of no farm labor to be had. Here again we are not awake to our best interests in sheep husbandry, as a given amount of money can be earned with sheep with much less labor than any other class of live stock. The grazing for sheep takes small labor, the fodder crops for winter feed less labor than for other stock, and the winter shelter costs much less than it does for any other class of stock. The weed problem is



The Tick Question

Ticks do not develop wings in adult life, therefore never leave the animal except by accident. They not only sap the very life out of the sheep, but also destroy the wool.

Dr. Hess Dip AND DISINFECTANT

is sure death to all sheep ticks. It is also a guaranteed cure for Sheep Scab, Foot Rot and every form of Mange or other parasitic disease of the skin in horses, cattle, sheep, hogs, dogs and poultry. It is also excellent for disinfecting and deodorizing hog pens, chicken yards, cow stables, sinks, closets, etc.

One gallon of Dip makes from 70 to 100 gallons. Dr. Hess Dip and Disinfectant diluted one part to 70 of water meets the Government requirements for official dipping for sheep scab.

If your dealer can't supply you, we will. Write for circular.

DR. HESS & CLARK
Ashland, Ohio



DON'T SHEAR SHEEP WITH HAND SHEARS

It is slow—you don't get all the wool—you cut the sheep—and you make hard work of it for yourself.

STEWART No. 8 SHEARING MACHINE

This is the great enclosed gear shearing machine you hear so much about. Every gear is file hard, is enclosed, protected and swims in oil, doing away almost entirely with friction and wear. This machine turns easy, shears fast and gets all the wool. IT MEANS 20 CENTS WORTH MORE WOOL FROM EVERY SHEEP.

Your dealer can supply this machine, or send \$2.00 and we will ship C.O.D. for balance. Write for our new 1910 book, "More and Better Wool." It is FREE. Send for a copy today.

Chicago Flexible Shaft Co. 234 Ontario St. Chicago



LIVE STOCK SALES

WE PRESENT to our readers this week the reports of a few very good sales. The Angus sale of Mr. William Cash resulted in an average of nearly \$250 on fifty head. This means the conversion of fifty cattle into \$12,000 cash in the space of two or three hours. This record simply demonstrates, as it has been demonstrated many times in the past, that there is always a demand for good doddies. The Percheron sale of O. P. Hendershot, of Hebron, Neb., which was held at Lincoln, really set a new standard, as Mr. Hendershot's stallions averaged over \$1,000 and his mares \$540. At this sale \$45,000 worth of horses were converted into cash by Colonels Woods, Branson and Page in a few short hours, much to Mr. Hendershot's satisfaction as well as to the satisfaction of every man listed among the purchasers. Mr. P. W. Moir, of Orange City, also had a satisfactory Percheron sale, though the number in his offering was not so large. What he had to offer, however, was just the kind of breeding stock that will go right on and make every purchaser a good profit. The sale held at Odebolt by Brookmont Farm, of Odebolt, Iowa, was a noteworthy one on account of two things. In the first place, 146 head of cattle is a large number to be sold at one time from one farm, and in the second place they were 146 good ones. Mr. Cook, proprietor of Brookmont Farm, has possibly the largest herd of Herefords on his 7,000-acre farm in the central West, so that after all, the sale of 146 in two days by no means takes all his surplus. Although Mr. Cook has not been in the business many years, he has been in it long enough to appreciate the fact that the best of sires are none too good to stand at the head of his herd, and by carrying out this policy he is rapidly popularizing his line of breeding.

O. P. Hendershot's Percheron Sale.
The Hendershot Percheron sale, held at Lincoln, Neb., March 9th, was a record breaker for American-bred stallions and mares. The day was cloudy, with snow falling fast, but this did not prevent the buyers from attending the sale. A more intelligent lot of farmer breeders never faced an auctioneer's stand. Colonels Woods, Branson and Page all had the block in turns and made good at every point. It was conceded on every hand that the entire offering was one of the very best ever placed on the auction block and they were appreciated, as is shown by the prices. Mr. Hendershot's reputation as a fair man to deal with has given him an enviable position among men. No "knockers" at his sale; his past patrons are his very best boosters, which brings confidence to the prospective buyers; they all like Mr. Hendershot's way of doing things. His way is the right way and that is why they come back for more. Mr. Hendershot has several good imported and home-bred stallions and mares which he wants to place right quick, at bargain prices. Write him at Hebron, Neb. The seventeen stallions in this sale realized the sum of \$18,425, or an average of \$1,083 per head, while the forty-nine mares brought \$26,455, or an average of \$540 per head. The average on sixty-six head was \$680. The list of buyers are: J. H. Crist, Skidmore, Mo., two head; R. M. Seever, Morna, J. Bernard, Julian; W. G. Martin, Pleasant Hill, Mo.; Wm. Perry Goltz, Okla.; H. V. Platt, Okarche, Okla.; J. S. Roth, Seward; H. C. Vannoy, Prairie Home; Chas. Cochran, Ravenna; Mollor & Johnson, Loup City; Thos. Dornan, Shelby, three head; Wm. Essex, Raymond; Napier & Holt, Shelby; J. C. Andes, Mountain City, Mo.; Behrandes & Goecke, Diller; Gerald Wilcox, McCook; L. C. Stephenson, Malvern, Iowa, two head; O. A. Strahan, Malvern, Iowa, three head; Fred Croissant, Osceola; Thos. Welch, Julian, two head; H. A. Hauptman, Julian, two head; H. Henning, Hebron, two head; Morgan & Kaump, Blue Rapids, Kan., eight head; John Bourlier, Julian; Wood Bros., Sumner, three head; E. R. Mathews, Lincoln, two head; Frank Hayhurst, Rising City, two head; W. N. Driver, Hill City, S. D., two head; C. A. Cook, Wahoo, four head; J. M. Myers, J. A. Ollis, Jr., Ord, two head; Ashley Rood, Peabody, Kan., two head; D. R. Briggs, Seward; C. H. Brenninger, Frankfort, Kan., two head; Fred Durbin, Malvern.

Wm. Cash Makes Splendid Angus Sale
Another great sale of Angus cattle was made at Williamsburg, Iowa, on March 11th, when that well-known breeder, Mr. Wm. Cash, disposed of fifty head at an average of \$247.50. Almost the entire crowd stayed over from the Donohoe sale the day before and, with the addition of several new-

comers, the sale started out under the most favorable conditions. The cattle were in splendid breeding condition and it was an offering that reflects great credit on the man that was making the sale. This was the first time where the get of his great breeding bull, Black King of Homedale 2d, were much in evidence, and the way the breeders took hold of them was evidence of his great worth as a sire of high-class Angus. Blackbird of Cherokee 31st, a four-year-old daughter of Imp. Edward R., topped the sale at \$810, going to Mr. P. J. Donohoe, of Holbrook, Iowa. Blackbird of Clover Leaf 8th, a yearling daughter of Black King of Homedale 2d, brought \$500, and she was one of the exceptional young things in the sale. Other daughters of this great young bull brought good prices, proving beyond a doubt the wisdom of Mr. Cash in selecting this bull to head his herd. Mr. J. K. Cline, Knoxville, Iowa, was a heavy purchaser, as were also Messrs. Stanley Pierce, of Creston, Ill.; P. J. Donohoe; Chas. Escher, of Botna, Iowa; O. V. Briney, of Marion, Iowa, and several others, as appears below in the report. It was a splendid sale from start to finish and the breeders gave Mr. Cash every possible support. Colonels Igo, Bellows and Jones were the auctioneers. Below is a list of the buyers: H. L. Cantine, Quimby; Patrick Leahy, Holbrook; John Cash, Parnell; Michael Cash, Holbrook; T. L. Goltner, Webster; James Mickel, Williamsburg; Ed Davis, Iowa City; L. H. Lamar, Storm Lake; Robinson & Chappell, Maryville, Mo.; John Geiger, South Amana; M. A. Martin, Wall Lake; J. R. Randall, Russell; M. H. Donohoe, Holbrook; H. E. Geiger; W. U. Harvey, Knoxville; John Kivell, Creston, Ill.; Henry C. Smith, Williamsburg; A. J. Fullmer, Belle Plaine.

P. W. Moir's Percheron Horse Sale.
Mr. P. W. Moir, of Orange City, Iowa, held his third Percheron horse sale in the Mitchell sale pavilion, at Mitchell, S. D., on March 11th, disposing of fifty-two head, bringing \$24,880, or an average of \$478 per head. The seventeen stallions brought \$8,120, or \$477 per head; the thirty-five mares and fillies brought \$16,760, or an average of \$479 per head. This sale was considered a grand success, as there was a washout on the Milwaukee road between Mitchell and Aberdeen, which detained a good number of the buyers from getting there. The offering was principally taken up by South Dakota buyers. Mr. Frank Stewart, of Buffalo Gap, S. D., was one of the principal buyers, securing nine head. Mr. A. A. Harris, of Wahpeton, N. D., secured six head. Messrs. H. G. McMillan & Sons, of Rock Rapids, Iowa, secured the highest-priced stallion, which was \$900. Colonel Woods officiated as auctioneer with able assistance, and the sale was considered by every one a grand success. Below is a list of buyers: H. G. McMillan & Sons, Rock Rapids, Iowa; Bullis Bros., Kimball; R. E. Thomas, Mt. Vernon; S. W. Harbert, Mitchell; Gus Evenson, Ocoma; O'Reiley & Sandusky, Draper; G. B. Biesheuvel, Westfield, N. D.; H. D. Thompson, Fulton; A. Graham, Canistota; B. Morsely, Virgil; M. P. Bates Mitchell; Jack Leving, Mitchell; F. M. Daniels, Mitchell; N. S. Handy, Sioux Falls; L. H. Louder, Draper; Jno. E. Holleman, Springfield; F. J. Kruger, Onawa, Minn.; Geo. Atkinson, Mitchell; Patterson Bros., Springfield; Jno. Barelin, Woonsocket; Jno. Isaacson, Lake Andes; Jno. Barnholt, Ottawa, Minn.; J. Driscoll, Emery; W. E. Lerun, Kennebuc; A. E. Brown, Alexandria; E. L. Kindred, Letcher.

Lien Bros.' Duroc Sale.
Messrs. Lien Bros. held their annual bred sow sale on their farm, four miles east of Platte, S. D., on March 9th, selling thirty-six spring gilts for \$1,218, or an average of about \$34 per head. This sale was fairly well attended by the farmers living near Platte, and the offering was taken up in a short space of time. Mr. A. D. Mackrell, of Platte, S. D., was one of the most conspicuous buyers and secured several of the best of the offering. Mr. C. H. Fatchett, of Geddes, S. D., secured some of the best. Messrs. Lien Bros.' offering was one of the best lots of Durocs that have been sold in the Northwest this year, and they are to be commended on being able to put up such a good offering, as they are quite new in the breeding business. Col. W. R. Ritchie was the auctioneer and hurried the sale along quite readily, to the satisfaction of everyone, and Messrs. Lien Bros. expressed themselves well pleased with the outcome and wish to thank one and all for their attendance through the columns of The Homestead.

Brookmont Herefords Average \$100.
The third public sale at the noted Brookmont Farm, Odebolt, Iowa, on March 15th and 16th, again brought out a good crowd and 146 head of cattle sold at an average of \$100. Seventy-two head were sold the first day at an average of \$109 and seventy-four head were disposed of the last day, making a total of 146 head in all. The bull demand was especially strong, as at former sales, and thirty-five head sold at an average of \$134. Much of the offering were young heifers and young bulls and, taken as a whole, the

outcome was very satisfactory. The prices were very uniform and the young heifers were in good demand. Cols. F. M. Woods, Fred Reppert and Tequist were the auctioneers. Following is a list of purchasers: H. Codd, Westfield; John Newcom, Beloit; V. A. Dunn, Kingsley; Howell Bros., Lemoyne, Neb.; Baxter Bros., Galva; David Loni, Bassano, Alberta, Canada; Aug. Meter, Odebolt; W. H. Lisle, Audubon; F. O. Peterson, Galva; Bent Live Stock Co., Hazard, Neb.; O. E. Green, Genoa, Neb.; Stowell Bros., Lemoyne, Neb.; E. Monette, Story City; Geo. Kesler, Odebolt; W. H. Becker, Wood River, Neb.; E. A. Don, Kingsley; Frank Hann, Harlan; A. E. Wright, Williams; W. L. Royer, Odebolt; Carter Bros., Wood Lake, Neb.; F. K. Behne, Alta; Glen Kuneley, Garwin; John Ingelhart, Haspers; Gus Rabie, Ricketts; G. B. Yepsen, Yetter; Geo. A. Dalzell, Alta; Mathias Johnson, Story City; W. L. Rogers, Odebolt; H. Alday, Schleswig, Neb.

Smith's Short-horn Sale.
Mr. O. O. Smith, of Des Moines, Iowa, sold forty-nine head of Short-horn cattle March 16th at an average of \$171.75. The attendance of breeders from the outside was good, with an evident intent to buy good cattle. Unfortunately, the condition of the cattle driven into the ring was not highly satisfactory and, as a result, prices were somewhat draggy. The top price of the sale was paid by Mr. C. A. De Vaul, of Inwood, Iowa, for the bull, Star Goods 300898, the figure being \$360. Mr. A. M. Anderson, of Madrid, Iowa, paid \$192.50 for Red Marshall, a yearling red bull. The top price paid for cows was \$120. Among other buyers were W. W. Morrow, Afton; P. C. O'Malley, Bouton; S. M. Hosford, Monticello; T. H. Beener, Des Moines; C. F. Jones, Rippey; M. L. Andrews, Des Moines; Wm. B. Knox, Des Moines; Lewis Hass, Des Moines; John Dorr, Des Moines; E. E. Herriott, Casey; H. D. Parsons, Newton; Walt Edwards, Booneville; M. Valenski, Des Moines.

G. C. Roan's Jack and Jennet Sale a Success.
The sale of jacks and jennets held by Mr. G. C. Roan, of La Plata, Mo., on March 15th, was a successful sale from every point of view. It was Mr. Roan's first advertised sale and buyers responded from South Dakota, Nebraska, Kansas, Oklahoma, Illinois and Missouri. Mr. Roan's statements and methods were such that those present soon understood that he was out to sell the jacks and jennets at prices such as the bidders saw fit to make and the result was a snappy sale. The top of the sale was \$1,525, paid by Mr. J. F. Stalker, of Roanoke, Mo., for Lot 1, the eight-year-old black jack, Burk 1644. Mr. Chas. Fritz, Jr., of Elmer, Mo., took the good two-year-old jack, Clover Leaf Mammoth, at \$1,330. This jack was bred by Mr. Roan and sired by his herd jack, Mammoth J. C. Jacks by Mr. Roan's herd jack, Mammoth J. C., and jennets in foal to him were most sought after, as this jack has proven a sire of good ones. Mr. Henry Ebmeyer, of Belden, Mo., secured a right good son of Mammoth J. C. at \$1,005. The top on jennets was \$395, paid by Mr. Sam Whitfield, of Alden, Kan., for Lot 4. Mr. Whitfield was a liberal bidder on all the better things and secured several head to take to Kansas. Mr. Roan was pleased with the general results of the sale and expressed thanks to all who helped to make his sale such a success. Col. R. L. Harriman, the noted horse and jack salesman, and Colonel Gross did the block work. Colonels Hieronymus, Rogers, Denison, Byler and Doherty handled the ring work. Following is a list of buyers: J. F. Stalker, Roanoke; Chas. Fritz, Elmer; G. E. Davis, New Boston; Geo. Arnold, Sedalia; O. T. Larson, Chula; G. E. Avery, Riley, Kan.; W. Brockman, Atlanta; B. E. Harris, Selma, Kan.; J. O. Vanosdal, Bucklin; Sam Whitfield, Alden, Kan.; M. L. Rice, Ethel; Jno. Tooley, Macon; A. T. Stellman, Roodhouse, Ill.; Leonard Mitch, New Cambria; O. N. Evans,

Ethel; Henry Ebmeyer, Belden; P. H. Summers, Callio; A. Swanson, Atlanta; W. R. Crail, New Boston; J. F. Davault, Bucklin, Mo.
An Ohio woman, who gave a card party, pondered a long time on suitable prizes, desiring to give articles which would combine novelty with intrinsic worth. When the playing had ceased, she proudly gave to the winner of the first prize a pound of rich creamery butter; to the winner of the second, a dozen eggs laid that day. As a result, the card club has voted to abandon doilies and silk stockings as prizes at their weekly parties hereafter, and will follow the example.

Better Farming

A John Deere Book

—Just Out—

A Farmer Can Get It Free

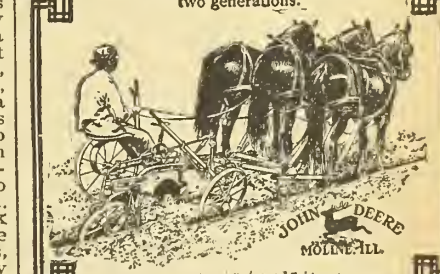
If interested in farming, get our FREE book called "BETTER FARMING." It tells all about—

Alfalfa	Making Hay
Dairying	Fighting Frost
Seed Wheat	Silos
Corn Crops	Cultivation
Stock Feeding	Cotton Crops
Art of Plowing	Soil Fertility
Boll Weevil	Gasoline Engines
Controlling Weeds	Adjusting Plows

Hired Help Costs Big Money

Your land is high priced and hired help expensive. There is only one way to make big money—use implements that cut down the cost of your crops. Isn't it true that when you break something on a plow it is nearly always a cast part? Wherever strain comes on a John Deere Plow there you will find steel—tool steel. Take any plow that has had hard work for five years, put it along side of a John Deere which has been in service that long—and see the difference. Then there is no paint to cover up poor material. You can see the wear and the defects. The John Deere will be solid, staunch and ready for the hardest job. Then you begin to know that quality counts.

You can take pride in owning a John Deere—the standard plow of the world for two generations.



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Mention the package number sure, then you will get exactly the right stuff.

DEERE & COMPANY, MOLINE, ILL.

NEW MODEL 13-SHOT VETTERLI SWISS REPEATING RIFLE

Worth \$35.00, Only..... **\$2.75**

Here is where this high-grade rifle outclasses any and all other rifles sold at \$35 or less. It is a new model—every part new, strong and perfect. It is a 13-shot Repeating Rifle of modern design, with the simplest and easiest working bolt action ever put on any rifle—it may be shot 13 times in 13 seconds or less—carrying power, one mile—length, 52 in.—barrel, 32 in.—wt., 10½ lbs. Just the thing for big game. Remember, it is new and will last a lifetime—sold at less than 1-10 the cost to make it—shoots special 41 caliber imported, smokeless cartridges, with copper shell and long rifle bullet—the greatest rifle value ever offered—supply limited—**\$2.75** don't delay ordering. Price.....

Cartridges, extra, per box of ten, 25c.

FAMOUS RUBBER ROOFING, PER SQUARE, 95c AND UP.

Heaviest, toughest and best Rubber Roofing manufactured. Contains no tar. 1 ply. 95c; 2 ply, \$1.25; 3 ply, \$1.50 per square; guaranteed 3, 5 and 8 years. All complete with large head nails and cement. Samples furnished free.

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Sixth and Washington Ave., St. Louis, Mo. (St. Louis' Largest Retail Store.)

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

Apr. 5, Geo. Allen, Lexington, Neb., at South Omaha, Neb.
 Apr. 12, Thomas & Ellison, Rushville, Ind.
 Apr. 20, Geo. McMaster, Bedford, Iowa.
 Apr. 28, Henry H. Kuper, Humboldt, Neb.
 May 20, W. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 2, J. G. Biller, Hartington, Neb., at Crofton, Neb.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 18, H. D. Parsons, Newton, Iowa.
 June 21, Jesse Binford & Sons, Liscomb, Iowa.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranzi, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
 May 24, J. M. Graham, Indianola, Iowa.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 6, James Williams, Marcus, Iowa.
 June 7, Stanley R. Pierce, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.

Hereford Cattle.

Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 Apr. 16, James E. Logan, Kansas City, Mo.
 Oct. 20, H. D. Clore and Z. T. Kinsell, Chariton, Iowa.

Holstein-Friesian Cattle.

June 21, 22 and 23, Robt. E. Haeger, Algonquin, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Lincoln Hotel, Lincoln, Neb.
 A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
 E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FILED NOTES.

Messrs. Luers Bros., of Sigourney, Iowa, have a splendid high-grade Shire stallion which they are offering for sale in their advertisement that appears on page 46 of this issue.

Mr. W. W. Vaughn, breeder of Short-horn cattle, at Marion, Iowa, writes that he still has on hand and for sale three good red Scotch bulls of serviceable ages, that ought to be heading good herds. He also has half a dozen blocky, thick-meated Scotch-topped red and dehorned farmers' bulls, on which he is making attractive prices. Mr. Vaughn's Wildwood herd is advertised on page 51 of this paper. He reports that trade up to the present time has been good.

Mr. S. J. Butts, breeder of Duroc Jersey hogs, Mason City, Iowa, writes as follows: "I am all sold out of bred sows and have nothing on hand for sale except one yearling boar. This is a long, big-boned fellow, straight and smooth, and is offered for sale for no fault, but because I must change blood in the herd. If a man does not want to sell stock quickly he must not advertise in The Homestead. I will book orders for spring pigs for July delivery." See Mr. Butts' advertisement on page 49.

A recent letter from Mr. J. S. Kennedy, breeder of Chester White hogs and Barred Plymouth Rock chickens, at Blockton, Iowa, says: "The Homestead has sold out all our Chester White sows and gilts and my evenings are now all taken up in answering inquiries for more bred sows. The spring crop of pigs is coming along fine. Readers of The Homestead will be advised when I have something more ready for sale." Mr. Kennedy announces in his advertisement on page 27 that he is prepared to furnish Barred Plymouth Rock eggs for hatching. These are from leading strains of purity and sold under the conditions named in his advertisement.

Messrs. Bridgford & Nesbitt, of Aledo, Ill., whose advertisement of Poland China hogs has been a prominent feature in the columns of The Homestead during the past season, write under date of March 10th, saying: "The demand for Poland China sows has never been better. Our sales have been good and at the best prices we have ever obtained. Our stock has given the best satisfaction and some of our patrons have forwarded second orders. We have still for sale a few gilts bred for the last of April or first of May farrow. We will quote very low prices on these in order to get them out of the way of the 1910 crop of pigs now ar-

iving. The Homestead has done us as good work this year as any of the advertising mediums we have used."

Any reader of The Homestead wishing to purchase a four-year-old Shetland pony will be interested in the advertisement on page 46, the address of which is Lock Box 61, Earlville, Iowa.

McIntyre's Poland China Herd.

Mr. F. W. McIntyre, of Red Oak, Iowa, makes a change in his advertisement on page 49 which should be of interest to buyers. He writes us that he has a few good tried fall yearling sows and twenty-five spring gilts bred to farrow the last of March and in April and May. Mr. McIntyre's sales have been remarkably good during the past two weeks and he advises us that shipments have been made to eleven different states.

Nervig's Last Call.

We wish to impress upon our readers who are interested in Hereford cattle, the fact that Mr. E. O. Nervig, of Slater, Iowa, will drive into the ring on Tuesday, March 29th, a splendid consignment of Hereford cattle. They are worthy the attention of everyone who wants to improve his beef herd. They are right because they have been bred right, because they have been fed right and because they have the proper conformation. Do not fail to attend this sale.

An Improved Cultivator Shovel.

The advertisement of Mr. Chas. Burmeister, on page 20 of this paper, illustrates an improved cultivator shovel which that gentleman is putting on the market. The engraving shows the difference between his shovel and the old style and indicates how, by its use, corn roots may be saved and at the same time weeds on the surface cut up and completely destroyed. Circulars giving prices and complete descriptions may be had by writing to Mr. Chas. Burmeister, Sutherland, Iowa.

The Hendershot Horses.

Mr. O. P. Hendershot, of Lincoln, Neb., whose advertisement of Belgian and Percheron horses and jacks occupies a prominent place on page 52, has a lot of splendid animals in his barns, for sale. Those who will read the report of his great sale which took place on the 9th of March will there learn of the high quality of stock that goes out from the Hendershot barns. There are just as good animals on hand now as those that were cataloged for the sale in question. Buyers will do well to write to Mr. O. P. Hendershot, of Lincoln, Neb., for additional information.

Another Labor Saver for the Farmer.

Now that the period of active work on the farm is at hand, it devolves upon every farmer to utilize to the last degree every means of economizing labor. There is no one particular line of drudgery on the farm that is so generally disliked as milking, so everyone hails with interest the announcement of the Western Milking Machine Company that they have produced and are now selling a milker that milks right. This milking machine is not like those which have heretofore been advanced. It is simple and inexpensive. It does not require any machinery or power or other intricate appliances as preliminary. It is clean, sanitary and a money maker every time. For proofs of all these statements write to the Western Milking Machine Company, 244 North 3d St., Stevens Point, Wis.

Cedar Rapids Importing Barns.

One of the centers of trade in Belgian stallions is the farm of Mr. W. L. De Clow, of Cedar Rapids, Iowa. That gentleman writes us that he now has on hand twenty-five big, ton stallions and ten others that will weigh around 2,300 pounds each. He advises us that these are the largest Belgian stallions to be found in the United States. He also says that he has another importation which left Antwerp, Belgium, March 12th, and while these animals are arriving late they will be in good condition to go immediately on the stand and will be sold at extremely low prices for cash. This will be his great bargain sale for the year. Many of these animals weigh 2,400 pounds each. Mr. De Clow's barns are located on the electric line between Cedar Rapids and Marion and railroad facilities are so good that they can be reached without any inconvenience from almost any direction. Do not forget that he is going to make some especially attractive prices on the consignment last spoken of. See page 55.

Lefebure's Belgians and Percherons.

Mr. Henry Lefebure, of Fairfax, Iowa, whose experience as an importer and breeder of Belgian and Percheron horses has covered more than a quarter of a century, and whose advertisement will be found on page 53 of this paper, writes under date of March 12th as follows: "Sales for this season have been unparalleled in the history of my business. We have been compelled to make more importations than ever before. Finding the large consignment of sixty head of Belgian stallions and mares inadequate for the demand I again brought over thirty head of Belgians and Percherons on December 8th, and on February 17th was forced to bring twenty more grand animals over. They are in the best of condition for breeding purposes. They caught no cold nor distemper, feel well, look fine and, added to previous importations and the home-bred stallions and mares on hand, enable me to claim to have at the present time the best and largest collection of heavy-boned, blocky Belgians in the country. The Percherons also form a most desirable lot. We have still another importation due to arrive about April 1st. My method of importing no inferior animals has built up a good business for me and has given my

patrons the advantage of purchasing animals such as the market today demands."

Reid's Yellow Dent a Winner.

The prominence of Reid's Yellow Dent corn in the big corn shows is no greater than its standing as a favorite crop in the best corn-raising districts. Prize-winning seed corn of this variety may be secured at reasonable prices from Messrs. Aye Bros., Second St., Blair, Neb., as advertised on page 21 of this paper. These gentlemen also sell pure Kherson oats.

A Correction.

In a recent reading notice in these columns the statement was made that the Martin old reliable pure copper lightning rods were sold direct to farmers. This was an error, as the rods are sold only through dealers. The manufacturers, however, will be glad to send booklets containing full descriptions and other information to those who are interested and will write to the Martin Mfg. Co., Dept. A, Sac City, Iowa.

Young Beau Brummel Herefords Sell April 16th.

Dr. Logan is making the effort of his life to present to the Hereford world a consignment of cattle surpassed by no breeder in any country. Every animal to be sold has been bred and developed by him. By show-yard competition he has proven that Young Beau Brummel is one of the greatest living sires. He is selling sixty head—thirty-four bulls and twenty-six heifers—practically all sired by this great bull, April 16th, at Kansas City, Mo.

Good Angus Bulls For Sale.

On page 46 of this week's Homestead you will find the advertisement of Messrs. Isenbarger Bros., of Battle Creek, Iowa, who are offering a splendid lot of young Aberdeen Angus bulls for sale. One of the number is a double-bred Blackbird named Byron. He is a son of Borama, the Nebraska State Fair champion bull, and his dam is Blackbird of Cherokee. Being a double-bred Blackbird and a good individual he should be sought after by some good breeder who wants a bull to head his herd. They also have three good Prides, a Queen Mother and one or two other well-known tribes. If you want an Angus bull you can certainly find some great bargains in the Isenbarger herd. When writing them kindly mention The Homestead.

Hereford Herd Header.

On page 46 of this paper our readers will find the advertisement of the herd of Hereford cattle owned by Mr. George R. Slocum, of Primghar, Iowa. A representative of The Homestead visited Mr. Slocum's farm a few days since and was well pleased with the quality of stock found there. Mr. Slocum is offering particularly three young bulls of the low-down, thick and beefy type, and that carry some of the best blood of the breed. They are sons of Fulfiller 2d, he by the champion, Fulfiller, and their dams are daughters of Columbus 6th, he by Imp. Templeton. These young bulls are well worth investigation on the part of those who want to buy strictly good stock, capable of high development. For additional particulars write to Mr. George R. Slocum, of Primghar, Iowa.

One Thousand-Dollar Percherons.

For the next thirty days Mr. S. J. Miller, of Kirksville, Mo., the well-known importer of Percherons, Shires and French Coachers, is going to make a special drive on stallions at \$1,000 per head. These are young horses, with their entire lives of usefulness before them. They were imported in January, are blacks, with the greatest lot of bone and quality of any Mr. Miller has ever imported. Colonel Miller has bred Percherons for years, so that he knows the required standard of horses that should be imported to add to the quality of our American-bred horses, and he does not bring any but those he knows will improve the quality of our horses. In this string are stallions that will please the most critical. He also bought a fine string of mares, several of which are in foal to the World's Fair champion, Carnot 66666. These are also priced worth the money and are a great lot of mares. See page 46 for Colonel Miller's advertisement and address and when writing or visiting him kindly mention this paper.

Col. R. W. Mitchell.

With this issue of The Homestead Col. R. W. Mitchell, of Albany, Mo., starts his auctioneer's card soliciting a share of the business of those who contemplate holding auction sales of any of the breeds of pure-bred live stock. Colonel Mitchell has been actively engaged in the auction business, selling all kinds of live stock. He is also becoming noted as the poet of the "fraternity and has just concluded 'Encomium to the Hog.' 'The Kingdom of the Jack World.' 'Houchin's High-Class Sale' and 'Kinloch Berkshires.' These poems will be mailed on receipt of your address and enclosed stamp. Colonel Mitchell is a gentleman who has made a study of pedigrees, he tabulates pedigrees and compiles catalogs for those who desire him to do this work. The Colonel has at his command all herd books of registered live stock, so that he can correctly do this work, and guarantees satisfaction. Colonel Mitchell has this year had an unusually successful season; he was one of the auctioneers who assisted in the famous Limestone Valley Farm's record-breaking jack and jennet sale. He has conducted, managed and assisted in many of the most important sales of the country and is prepared and ready to help you to bring any sale you may contemplate holding to a successful ending. See page 48 for Colonel Mitchell's advertisement and address and

remember that he would be pleased to consult with you regarding dates best suited to holding your sale and assist you in bringing your sale to a successful end.

Chieftain 51221 For Sale.

On page 46 of this week's Homestead will be found the advertisement of Mr. H. Fessenmeyer, of Clarinda, Iowa, who offers his splendid Poland China herd boar, Chieftain, for sale. This boar is a son of the noted hog, Chief Tecumseh 4th, and is out of Crescent Lady. He is twenty-four months old and weighs 650 pounds and will make a 900-pound hog when matured. He is in nice breeding condition and will make a great herd boar for some wide-awake breeder who buys him. Mr. Fessenmeyer says of him: "He is a very smooth hog, good head and ear, good top and bottom lines, even sides, good ham and stands on good feet. He has a nine and one-half-inch bone, is a very stylish fellow and is active and a very prolific breeder. I have used this boar at the head of my herd and the only reason that I am selling him is because I have recently bought the celebrated boar, A Wonder, and he now heads my herd. This hog has plenty of stretch to him, is broke to crate and is guaranteed as represented. Mr. Carlin, of The Homestead, has seen this boar and can tell you more about him." When writing Mr. Fessenmeyer kindly mention The Homestead.

Stallion Buyers Active.

It is a good indication for the future of the horse-raising business that stallion buyers have been active in hunting up excellent specimens of the various breeds and buying them with reference to quality rather than to low figures. We notice recently that imported Shire stallions have been purchased by Messrs. C. A. Blanchard, of Wapello, Iowa; Benjamin & Rogers, Oxford Jct., Iowa; J. A. Ott, Baldwin, Iowa; Chambers Bros., Sadorus, Ill.; Michael Maley, Sadorus, Ill.; H. Osterhaudt, Boone, Iowa; C. C. Wenger & Co., Wayland, Iowa; John Keitzer, Mt. Union, Iowa; A. J. Taylor, Fithian, Ill.; and C. H. Edwards, Missouri City, Mo. Mr. J. W. Downs, of Buckhannon, W. Va., bought an imported Shire stallion and three imported mares. Percheron stallions have been bought by Messrs. Elledge Bros., of Kansas, Ill.; C. L. Hardman, Knoxville, Iowa; J. J. Flattery, Albia, Iowa; Al. Dean, Hume, Ill.; Jas. W. Rose, Eagle Grove, Iowa; Wienrank & Seward, Watseka, Ill. It is something to the credit of the Truman Pioneer Stud Farm, of Bushnell, Ill., that all of these animals were selected from the stables of that concern. Manager J. G. Truman advises us that the barns are still full of strictly first-class animals of the various breeds named in their advertisement on page 55.

Scotch Cattle at Public Auction.

On March 29th, at Audubon, Iowa, will occur the Short-horn sale of Mr. Earl Maharg, one of the best-known breeders in Audubon county. His sale is one of the important Short-horn sales of the spring season, because of the number of Scotch cattle that he is selling. There will be forty-eight head in the sale, of which forty will be females and eight bulls. There will be nineteen head of Cruickshank Victorias in the offering, besides a lot of Orange Blossoms, Lovelys and Devergoils. Altogether, there will be thirty-one head of Scotch cattle in his sale, making it one of the most worthy offerings that will be put up at public auction this spring. The Maharg herd of Short-horns is one of the well-known herds in the state, having been established over fifteen years. The foundation was originally laid by the senior J. H. Maharg, who drew on the more noted herds in his day. He always secured the best of Scotch bulls and he particularly favored the Cruickshank Victoria females, and this accounts largely for there being so many of them in this sale. Possibly no family of Scotch cattle have been in higher favor among the discriminating Short-horn breeders than have the Cruickshank Victorias, and this sale will furnish a splendid opportunity to buy some of them for your herd. These Victorias are sired by Burnbrae King, a noted show and breeding bull used in the herd for a number of years; Crimson Chief, Consul's Secret, Imp. Lord of the Manor, and Nonpareil Boon. They all descend from Imp. Victoria 73d by Roan Gauntlet, undoubtedly the best branch of the Victoria family. There are a lot of Victoria heifers in the sale, as well as cows with calves at foot. Another Scotch family that is well represented in this sale is the Devergoils, of which there will be quite a number. Among these will be Imp. Devergoil (the foundress of this tribe), and she sells with a good bull calf at foot by Burnbrae King. There are several of these Devergoils in the sale and they are among the best Scotch cows that Mr. Maharg will offer at this time. Then there is a splendid two-year-old Lovely heifer by Burnbrae King in the sale and she sells with a nice heifer calf at foot by Sultan 3d. There are also a couple of nice Orange Blossoms and the remainder will be Scotch-topped. About fifteen females will have calves at foot, mostly by Sultan 3d, the \$1,000 son of the noted show and breeding bull, Whitehall Sultan. There will be eight young bulls in the sale, most of which will be Scotch bulls. Among these will be three Cruickshank Victorias, one Secret, one Duchess of Gloster, one Nonpareil and a couple of Scotch-topped bulls. One of the best bulls is Nonpareil Duke, a Cruickshank Nonpareil, sired by Nonpareil Boon and out of a daughter of Mr. George Allen's old bull, Godwin. Another good bull is Golden Nonpareil, a son of Nonpareil Boon and out of a Duchess of Gloster cow. Scottish Lad is also quite a good young bull and

he belongs to the Cruickshank Secret tribe. There are several more of these Scotch bulls in the sale, and most of them are consigned by Messrs. Alec Campbell & Son, of Botna, Iowa. It will be one of the best opportunities that we know of this spring to buy either Scotch females or young Scotch bulls. The catalog is now ready and should be in the hands of every Short-horn lover in the West. Write Mr. Earl Maharg, Audubon, Iowa, for a copy of it and kindly mention The Homestead. See advertisement on page 48.

They Never Root Again.

In the advertisement of the Decker Mfg. Co. there will be found an illustration of a little instrument designed to prevent hogs from rooting, and to be used also as an ear-marker. It is thoroughly effective, as has been demonstrated by years of practical use on some of the best hog farms. Aside from that, it is very cheap and can be had for sixty cents postpaid. See the advertisement and forward trial order to the Decker Mfg. Co., Keokuk, Iowa. See page 49.

Harrison & Son's Stallions.

Those of our readers who want to buy some good Clydesdale stallions or mares should go and visit the barns of Messrs. Laben Harrison & Son, at Prescott, Iowa. They have some most excellent Clyde stallions and mares that they are pricing well worth the money. They also have two good Shire stallions for sale and one Belgian stallion. This Belgian stallion is as good a horse as has been imported to this country this year. If you are wanting a real top notcher in a Belgian stallion that will weigh 2,200 pounds, then you should by all means see the firm of Harrison & Son. Mention The Homestead when you write them.

Humbert's Stallions.

If there is any reader of The Homestead who has not already bought a stallion and wants a good one, they will be interested in the horses of Messrs. E. H. Humbert & Son, at Corn- ing, Iowa. This firm are now located right in town with a splendid barn and plenty of good horses to show the boys. They have a cracking good lot of Percheron and Belgian stallions for sale that only need to be seen to be appreciated. Buyers can stop over between trains without any inconvenience and inspect their horses, and if you are on the market for a stallion it will pay you to stop and see what this firm are offering for sale.

A Wonderful Remedy for Blindness.

Farmers who have horses suffering from moon blindness, ophthalmia, conjunctivitis or catarrh will be interested in the advertisement of Visio on page 34. This is a remedy which has wonderful curative properties and has, in hundreds of instances, cured horses that were supposed to be absolutely blind. It is sold for \$2 a bottle and under a positive guarantee. It has proved so wonderfully effective in every case that it is just worth while for any farmer, who has a defective horse, to give it a trial. Send orders to the Visio Remedy Association, Dept. D, 1933 Wabash Ave., Chicago, Ill.

Corn Planter Time.

The big P. & O. advertisement on page 9 ought to awaken an interest among farmers in the No. 66 corn planter made by the Parlin & Orendorff Co., as well as their plows, cultivators and other implements. The Parlin & Orendorff Co. are one of the oldest implement manufacturing concerns in the state of Illinois. They have produced machinery not excelled by any other. The No. 66 corn planter stands at the head of the lot as a means of procuring an increased yield of corn. These planters are made in various styles as mentioned in the advertisement. Full descriptions, however, and prices may be had by writing for catalog N-25 to the Parlin & Orendorff Co., Canton, Ill.

Lonergan's Big Victor Fall Boars.

On page 49 of this week's Homestead, Mr. D. C. Lonergan, Florence, Neb., one of the most noted breeders in the West, announces that he will now offer a splendid lot of fall boars for sale sired by his great show and breeding boar, Big Victor. Some of these boars are out of such well-known sows as Side Pocket (one of the best brood sows that he has ever owned), Flora's Likeness, Sunlight and Guy's Best, the first-prize sow at Sioux City Fair last fall. Poland China breeders who want to buy a boar pig can get in on the ground floor by sending Mr. Lonergan an order at once. You can now buy them right and you will have your herd boar when you need him. Kindly mention The Homestead when writing him.

The Aspinwall Sprayers.

Every potato raiser who knows his business is more or less acquainted with the machines and implements manufactured by the Aspinwall Mfg. Co., of Jackson, Mich. Their potato planters are standards of the most perfect of potato planting machines. In later years they have enlarged their capacity by the production of all sorts of machines having any connection with the business of potato raising. The latest of these is the Aspinwall sprayer, which is adapted to potato raising in particular. It will spray to a width of twelve feet, using any desired solution and in a thoroughly effective manner. This is a double-cylinder sprayer with a broadcast attachment and is particularly adapted to spraying grain fields for the purpose of destroying wild mustard. A single-cylinder, four-row, one-horse sprayer does good work, not only on potatoes, but strawberries, cabbage, beans, etc. We have not space at our command to give complete descriptions of this machine. Readers of this paper are invited to send for their illustrated booklet which

contains other valuable information. Address the Aspinwall Mfg. Co., 459 Sabin St., Jackson, Mich.

The World's Beef Makers.

The above expression is a prominent feature in the advertisement of Mr. A. E. Cook, breeder of Hereford cattle at Odebolt, Iowa, as it appears on page 50. Notwithstanding the fact that Mr. Cook has held successful public sales of Herefords, he has still on hand a very large number of Hereford cattle, male and female, suited to the wants of farmers and breeders. They are not of the fancy show-herd sorts, although they have quality, but they are adapted to the special business of making beef raising profitable on any farm. Mr. Cook invites correspondence, or would take pleasure in showing the Brookmont Farm and its herd to visitors at any time.

Fuel Saving for Gasoline Engines.

Farmers who have experienced the seeming waste of fuel in gasoline engines will be interested in the announcement of the Motsinger Auto-Sparker as made in the advertisement on page 2 of this paper. There is, in the use of gasoline engines, as in all other lines of farm work, a need for more rigid economy. It has been found that through the use of the Motsinger auto-sparker a lesser proportion of gasoline became necessary, while at the same time greater power was secured. These facts are demonstrated by actual tests. Concerning these and the price of the sparker write to the Motsinger Device Manufacturing Company, Box 162, Pendleton, Ind.

A Bargain Sale of Roofing.

Every once in a while a merchant makes a miscalculation in his business which leaves on his hands a greater supply of some particular line of goods than his regular trade will absorb. This happens to be the case at the present time with reference to Preferred Roofing with the Gordon-Van Tine Company, of Davenport, Iowa. Having become overloaded with roofing of the sort named they make a big announcement which will be found on page 56. They are offering 100,000 rolls of the choicest high-quality haint-coated roofing at prices so low that no previously quoted figures can compare with them. Just think of a roll of

in Dr. Logan's show herd last year. Dr. Logan has the interest of the Hereford uppermost in mind, he is strictly a breeder, breeds cattle of the right sort and is in the business because he loves good cattle and the good fellow-ship that exists among cattlemen. See page 50 for Dr. Logan's advertisement, send for a catalog and kindly mention this paper when doing so.

The Profit Farm Boiler.

The advertisement of the Profit farm boiler will be found on page 11. This is one of the valuable articles that ought to be found on every farm. The Profit has been in use so many years that even the older farmers remember it as one of the familiar things of boyhood. Its extended service is an excellent indication of its value under all circumstances. For special price list write for circular to D. R. Sperry & Co., Batavia, Ill.

The Vansant Seed Corn.

The Vansant seed corn is advertised on page 21 of this paper. The senior member of the Vansant firm has for nearly fifty years been a close student of the seed corn problem. He has been so careful in all matters pertaining to the production of good seed corn that he has, either himself or his sons, given personal supervision to the raising of all the corn from which their seed is produced. Only by this means has the Vansant seed corn kept up to the high standard of merit which it now enjoys. A catalog containing beautiful corn pictures, prices and other information may be secured by writing to W. W. Vansant & Sons, Box B, Farragut, Iowa.

The American Harrowing Attachment.

We wish to call the attention of our readers to the American Plow Company's sulky plow to which is attached an American harrow attachment as it would be operated in the field. The manufacturers of this little attachment are undertaking to introduce it quickly and for that purpose offer one of them free to every purchaser of a gang, sulky or walking plow. There is no discount on the American goods. They have proven their merit throughout the entire West. They are sold direct to farmers at prices which effect a great saving in money. Full particulars as to their harrow attachment offer may be had by writing to the American

go and see them. If you write him kindly mention The Homestead.

The Rockford Hog Trough.

The advertisement of the Rockford Hog Trough will be found on page 29 of this paper. The illustration affords a better description than could be given in words. Every hog raiser knows the difficulty he has in getting a hog trough which is at once durable and easily cleaned. The Rockford answers both these requirements. It is sanitary from every point of view, and its durability and cheapness recommend it. For special introductory prices write to the Rockford Hog Trough Co., Rockford, Ill.

Kratzer Quality Carriages.

The advertisement of Kratzer buggies and carriages will be found on page 8 of this paper. The Kratzer factory is a western institution which caters to the needs of the western farmer. The carriages as now constructed are the results of many years' observation and experience. Construction is surpassed by none, and the quality of materials employed is as good as the market affords. There are a great many other facts concerning the Kratzer which will make interesting reading to those who contemplate purchasing vehicles during the coming season. These are all given in a free book entitled "Some Inside Facts About Kratzer Vehicles," which may be had by every reader of this paper who writes for it to the Kratzer Carriage Co., 104 South First St., Des Moines, Iowa.

La Fayette Stock Farm.

A letter from Messrs. J. Crouch & Son, of La Fayette, Ind., under date of March 16th, says: "There has been a strong demand for good stallions and mares over all sections of the country and, while we have supplied a good many buyers with high-quality animals, the supply is by no means exhausted. A recent importation of fifty head enables us to show customers a large assortment of Percheron, Belgian, Shire, German Coach and Hackney stallions. In addition to these breeds we also have a large lot of standard-bred stallions of good size, excellent quality and good breeding. As the breeding season is now rapidly advancing we advise those who contemplate making purchases to come at once to our place and make selections."

The Oxford Hay Loader.

The advertisement of the Oxford hay loader on page 30, presents a new candidate for the favor of hay makers. That is, it is new to our advertising columns. It is a rake and loader that is the outcome of twenty years' careful experimenting. Its simplicity and thoroughness cannot fail to make a hit with those who appreciate a good loader. It is practically a one-man machine. It takes the hay from either swath or windrow and does it more thoroughly than can be done by any other rake and loader. It is guaranteed to pull one-third easier than any rake bar loader made, that does the same amount of work. Its most attractive point, however, is that it has a direct gear drive with no chance to break or wear out. This is a feature that cannot be found in other loaders. There are so many points of superiority, however, that we must ask our readers to send for a copy of the circular describing the machine, which is noted in the advertisement on page 30 and may be had by writing to Lasack Bros. & Co., Oxford Junction, Iowa.

Houchin's Great Saddle and Speed Horse Sale.

In the saddle and speed horse sale which Mr. Jas. Houchin, of Jefferson City, Mo., will put on at Houchin's driving park, Jefferson City, Mo., on April 11th and 12th, there will be 100 head of high-class saddle and driving horses. Among the saddle horses are four or five show horses fit to show in any company. Twenty are gaited saddlers, trained to show all the gaits of the saddle horse. Five head of walking horses are also included. Ten head of speed horses are listed. These and the saddlers are from Mr. Houchin's stables. Among the speed horses is the trotting mare, Josie Logan, with a trial of 2:12, a record of 2:21, and selling under Mr. Houchin's guarantee to trot in 2:10. Mr. Houchin also includes his 1909 futurity winner, the four-year-old, Myrene Onward, and her full sister, a year younger. Three three-year-olds by Albert Onward, the sire of Myrene Onward, are also listed. Two trotting fillies by the futurity winner, Ed Custer, are listed. They are fine show prospects, as well as promising to develop great speed. One green pacing mare by King Onward is listed. She has a trial of 2:15 and bids fair to make a low mark this year. Mr. Houchin has a great string of saddlers listed from other stables, so that the 100 head will afford ample opportunity to select any kind of horse you may desire. Those who want high-class saddle or speed horses will find this the season's greatest opportunity. Mr. Houchin also breeds the Mammoth jack. He is the man who paid \$3,030 for the great Baritone Mammoth at the celebrated Limestone Valley Farm sale, and will sell a few choice young jacks in this sale. This also is the home of Astral King, the champion saddle stallion of the world, and as Mr. Houchin handles nothing but the very tops, those who go to the sale will not be disappointed. It is Mr. Houchin's desire to make this an annual event. He is a gentleman who stands squarely behind every business deal with which he is connected, is one of the best business men in the country and everyone gets a square deal in every transaction with which Mr. Houchin has any connection. See page 55 for Mr. Houchin's advertisement.

NEXT WEEK'S SALE PROGRAM

Tuesday, { Short-horns, Earl Maharg, Audubon, Iowa.
March 29 { Herefords, E. O. Nervig, Slater, Iowa.

108 square feet of roofing at \$1.25. This roofing is as good as any that can be purchased. The prices are certainly below any possible competition. The company have storage houses not only at the home office at Davenport, Iowa, but also at Chicago, Minneapolis, Kansas City, Philadelphia and St. Louis and shipments will be sent from the closest of these points. Do not wait, but at once fill out the blank order which appears in the advertisement and forward to the Gordon-Van Tine Company, 1934 Case St., Davenport, Iowa.

Young Beau Brummel Heifers Sell April 16th at Kansas City.

On Saturday, April 16th, in the fine stock sale pavilion at Kansas City, Mo., Dr. Jas. E. Logan, of that place, will make a sale of sixty head of young Beau Brummel Hereford cattle. For this event thirty bulls and thirty heifers are listed, all young, with their entire lives of usefulness before them. Dr. Logan's efforts as a breeder of Hereford cattle will be fully demonstrated in this offering. It will, furthermore, be more fully demonstrated that Dr. Logan has in Young Beau Brummel one of the great sires of the breed, one that is molding cattle of the modern type that are appreciated wherever Herefords are bred. Dr. Logan selected Young Beau Brummel as the sire to get the type he had a desire to breed, and that he has not met with disappointment is shown by the show records, as every son and daughter of Young Beau Brummel that has been entered for show has stood well up in the money and Young Beau Brummel, now six years old, has twenty-five winners to his credit. The best evidence of his ability as a sire is shown in his ability to get from cows of different type cattle that look as though they had been cast in the same mold. Every animal listed for this event has been bred at Dr. Logan's Sunset Farm, many of their dams were bred here and there is not an animal listed whose pedigree is not as good as is found in the herd books. Our readers realize what Beau Brummel is to the modern Hereford and Dr. Logan has in this son of the celebrated Beau Brummel a worthy successor to so noted a sire. His sons and daughters alike have the shortness of leg, quality of bone, depth and thickness of carcass, breezy character and the great mellow, fleshing quality so much sought. Dr. Logan is selling in this sale not only one bull fit to head a good herd, but several of this character. He is selling bulls fit to win this coming season, a goodly part of the purchase price. He also sells a great string of officers of this same class and all are bred to Crown Prince, the show bull Dr. Logan showed last year with such success. Some of these were

Plow Company, 2317 Fair Oaks Ave., Madison, Wis.

Rhea Bros.' Home-Bred Percherons.

One hundred head of home-bred Percherons, mostly raised to maturity on their own farms, is the proposition that Messrs. Rhea Bros., of Arlington, Neb., are now offering the trade. They have yearlings, twos, threes and four-year-old Percheron stallions, and they can sell these horses as low as any breeder in this country. These horses are grown to sell and buyers will be surprised at what figure they can buy a good horse at their establishment. They use no middlemen, but sell their own horses on their own farms and therefore such reasonable prices as they offer. You cannot afford to not see their horses before buying. When writing them kindly mention The Homestead. See page 53.

McLaughlin Offers Good Scotch Bulls for Sale.

Prospective Short-horn bull buyers will be interested in the bulls that Mr. W. H. McLaughlin, Shelby, Iowa, is offering on page 51. He has a number of good Scotch and Scotch-topped bulls on hand sired by Baron Kear 3d, American Goods (a son of Imp. Choice Goods) and Nonpareil Courtier 3d. Among the Scotch bulls that he is offering is a splendid red roan bull by American Goods and out of Lily (the dam of the \$500 white heifer in the Sonneland-Dows sale a couple of years ago). The dam of this young bull was sired by Scottish Victor, the 2,700-pound bull that formerly headed the Martin Flynn herd at Des Moines. He belongs to the Linnet or Luster family and should head some good herd. Another good bull is sired by American Goods and is out of Imp. Miss Law, she by the great bull, Jubilee Star. The dam of this bull was formerly owned by Mr. Hector Cowan, of Paulina, Iowa, and is one of the great breeding cows in the state. This will make a large bull, with ample bone, and those who may be seeking a bull that will easily go over a ton, then this bull will suit. Then he has a splendid Duchess of Gloster bull sired by Nonpareil Courtier 3d and out of a daughter of Baron Kear 3d, second dam by Cumberland and third dam by Imp. Brunswick, running down through Champion of England. He also has an extra good young Scotch bull by Baron Kear 3d (one of the greatest Short-horn bulls that was ever used in the state and he is still being used in the herd). This calf is out of a Bampton cow and he is a prospect for a good herd bull. He also has a few more Scotch bulls and quite a number of Scotch-topped bulls. If you want one of these bulls to write you to get right on the train and

ment and address him for further information, mentioning this paper.

Kramer Rotary Harrow Attachment.
The advertisement of the Kramer Company on page 12 illustrates the manner in which the Kramer rotary attachment is used in connection with the gang plow. This attachment is extremely light in draft and can be attached to either a gang or sulky plow. Its value in pulverizing the soil immediately after it has been turned by the plow will be appreciated. It not only does the pulverizing at the proper time, but it saves an immense amount of time and labor that would be required to go over the ground separately with a harrow. This device is highly commended by prominent authorities. It is fully described in a special price list and circular No. 14 which may be procured by writing to the Kramer Company, Paxton, Ill.

A Shoe For the Farmer.
The engraving herewith presented shows one of the Ruthstein steel shoes. It is, in fact, a steel sole with a leather top. This shoe is strong and durable, as well as easy and comfortable. The steel shoe is a protection to the foot under all kinds of weather and conditions. It is absolutely dry, very elastic and does not sweat the foot as does



a rubber boot. All who have tried steel shoes are loud in their favor. Mr. John May, of Hardy, Texas, bought a pair and wrote concerning them as follows: "I am well pleased with my steel shoes and would not do without them for any price. My feet are in better shape than they have been for forty years. I do not have to limp any more now." More information concerning the steel shoe may be had by writing the Steel Shoe Company, Dept. 384, Racine, Wis.

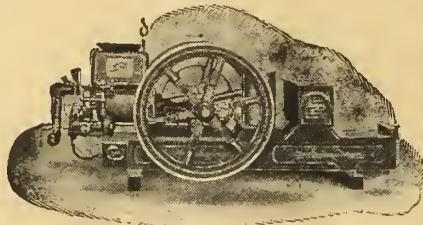
W. W. Andrews-J. B. Robinson Aberdeen Angus Sale.

The Andrews-Robinson & Co.'s sale of Aberdeen Angus cattle, to be held at Marvill, Mo., on Tuesday, April 12th, is one that every lover of the "Doddie" should attend, as these gentlemen are selling the very highest class of Angus. They have listed fifty head, sixteen Blackbirds, nine Ericas, three K. Prides, nine Prides, eight Queen Mothers, three Heatherblooms and one or two of other good families. Never before has there been offered in Missouri such a grandly-bred lot of Angus and no higher class of individuals has ever been put through a sale ring. From each herd just as good animals as these herds contain are listed, as it is their desire to offer in this sale only such animals as will add to the quality of the herds to which they may go. The man looking for herd bulls will find several that should meet with favor. Those who want choice breeding matrons will find here animals to please the most discriminating and all but five or six heifers are bred, several have calves at foot and are rebred. Among the bulls we desire to call attention to is Erica's Black Lad 126672 by Black Lad 2d, he by Black Pedro, one of Prince Ito's greatest sons. Throughout this yearling Trojan Erica bull's pedigree is found as rich breeding as is found in the herd books. Furthermore, his ancestors were grand individuals, his sire topped the last year's bull sale at Marvill and is without question one of the good bulls of the breed. Erica's Black Lad is a great young herd bull prospect, set on short, stout legs, with exceptional strength through heart, has a grand good head and, above all, is a great feeder, laying on an extremely thick, smooth coat of flesh. Two sons of Black Pedro, Black Boyd, a Blackbird, calved August 29, 1908, and Black Pedro Jr., a Ballindalloch Blackbird, calved October 10, 1908, are another pair of yearlings that should please the discriminating buyer. They have the style, smoothness of finish and fleshing quality that pleases. Furthermore, both are the kind that improve from year to year and sire cattle of the right sort. The Trojan Erica bull, Even Eric, is the oldest bull in the sale, he being a three-year-old in March. He was got by Earl Eric of Ballindalloch, has been used quite a little in Robinson & Co.'s herd and his get show him to be a good sire. Four or five of his calves sell in the sale. He was purchased when Black Pedro was lost and now that Woodland Black Prince, a full brother to Black Pedro, is to be made chief stock bull, Messrs. Robinson & Co. cannot use him to good advantage. Prince Ken, a Ballindalloch K. Pride by Eppy's Elate, should not be overlooked by those who want a January yearling. The female section of the offering is by far the strongest ever put up in Missouri. Eighteen cows sell with calves at foot and every calf is by a great sire and out of a fashionably-bred cow. This is where buyers get the best values for the money. Several great herd bull prospects are found among these calves. Throughout the catalog is found the get of exceptional sires that have done so much to make the Aberdeen Angus the great beef breed that it is. Every

cow is a regular producer of calves of the right sort. In next week's issue more extended mention of the females will be made. In the meantime send to either Mr. Andrews of Messrs. Robinson & Co. for catalog and kindly mention this paper when doing so.

The Badger Gasoline Engines.

The Badger gasoline engines are advertised on page 17 of this paper. The illustration which is presented herewith shows what a wonderfully neat and simple engine the Badger is. It has, however, with all its simplicity, arguments in its favor that cannot be presented by others. It is an open hopper jacket, semi-portable engine. It can be easily bolted to the floor or founda-

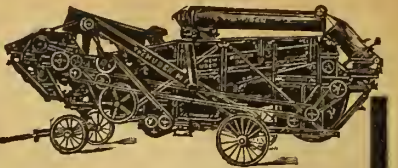


tion and used as a stationary engine, or it can be skidded from place to place wherever the power may be needed. It can also be changed into a portable engine by mounting on a set of trucks or runners. The Badger is made by the Christensen Engineering Company, who also make mounted engines in several different forms. They publish an interesting engine book which may be had free by writing to the Christensen Engineering Company, 1024 30th St., Milwaukee, Wis.

Short-horn Bulls at Farmers' Prices.

Mr. R. J. Cox, of Grinnell, Iowa, breeds Short-horn cattle and on page 51, announces that he has for sale a dozen bulls and a car load of cows and heifers. Mr. Cox has a herd of cattle which is remarkably good from every point of view. While he has not followed any fads as to blood lines, he made the right kind of a start and by the most careful selection of herd bulls possessing individual merit and breeding character has succeeded today in placing the general make-up of his herd on a basis that is not surpassed by any other herd of like numbers in the state of Iowa. In the beginning, the foundation of the herd was made by the selection of a few cattle from the herds of Messrs. H. D. Parsons and Crawford & Son, of Newton, Iowa. These were strong in the blood of Imp. Master of the Mint and Imp. Bandmaster. Later bulls were of families equally as dependable and invariably selected because they had quality and size, none having been used that tipped the scale at less than a ton. The present herd bull is Narcissus King 239586. This bull will weigh around 2,300 pounds. He is a solid red, of excellent symmetry and proportions, smooth as a ribbon and in every particular answers the description of an extra good bull. He comes by these qualities because of the fact that he represents the very best blood in existence. He carries, perhaps, a stronger line of Cruickshank breeding than can

The New Huber Thresher will give you bigger profits from your grain



The percentage of grain which the ordinary thresher throws away on the straw-stack can be turned into profit—actual cash in your pocket—with a New Huber Thresher. And it will deliver the grain in a cleaner, more perfect condition—the kind that brings the highest market price. Get all the facts about this money-saving, money-making New Huber Thresher. Write us.

First of all, the New Huber will do your threshing in less time and with less power than any other machine—this means a saving to you in both fuel and wages. It does the work better, too—every kernel of grain is cleaned up and put in the best condition for the market. The New Huber is solidly and staunchly built—it can handle big crops for years and never a part of it will get out of alignment. Every part is carefully trued and balanced, and it remains so. We know that the New Huber is the strongest built thresher—we know that it does its work better than any other thresher and certain exclusive features which no other machine possesses help it do this. Any one who buys a thresher without knowing all the particulars about the New Huber is, to say the least, unwise. Write to-day for our big illustrated book—it tells just how the New Huber is built and explains why it does the cleanest, most careful threshing. It also tells facts about the New Huber Traction Engine—facts you should know. Write for it to-day.

THE HUBER MFG. CO., 624 Center St., Marion, O.

TOO LATE TO CLASSIFY.

Imported Percherons, Shires, French Coachers STALLIONS AND MARES



\$1,000 IS THE PRICE ON STALLIONS FOR NEXT THIRTY DAYS \$1,000

Mares bred to the Champion, CARNOT 66666. Come and see them.

S. J. MILLER, KIRKSVILLE, MISSOURI.

be found in the pedigree of any herd bull in Iowa today. His sire was Gwendoline's King. His dam, a daughter of Commodore, was prominent in the recently dispersed Cookson herd, second dam by Home Secret, and back of that for six generations both sires and dams were bred by Mr. Amos Cruickshank. The young bulls, with two exceptions, are the get of Narcissus King. They are a solid red lot, as, in fact, are all the animals of the herd. There is an even formation and good style that pervades the entire lot. In all the dozen bulls that are offered for sale there is not a single one that is seriously faulty. They are noticeably good in the feature of having straight, broad, smooth backs, straight legs, with square and blocky make-up that indicates the true beef animal. A few of these bulls are by Royal Fame, a previous herd bull and a son of Imp. Golden Fame. These are highly attractive and will be sold at prices that are much below their value and, indeed, a great deal less than they would cost if found in herds of better known breeders. The cows and heifers that are offered for sale are of the same lines of breeding. They are the same form, all red, with beefy make-up and in nice, thrifty condition. Anyone who can use a car load of these

HEREFORD BULLS

All by Fulfiller 2d, son of the champion, Fulfiller, and chiefly out of dams by Columbus 6th and Imp. Templeton. They are choice, low, thick and beefy, and are ready for service. All of my own breeding. Come and see them or write.

GEO. R. SLOCUM, PRIMGHAR, IOWA.

CHIEFTAIN 51221 FOR SALE

I am offering the above great boar for sale because I recently bought a Wonder to head my herd. This boar is a son of Chief Tecumseh 4th, dam Crescent Lady. He is 24 months old and will weigh 900 pounds when matured. A great herd boar proposition. Who wants him? Address

H. FESSENMEYER, CLARINDA, IOWA.

HIGH-CLASS ANGUS BULLS FOR SALE

We are offering a splendid 2-year-old, double-bred Blackbird bull for sale, one excellent Gilt bull, 3 Prides and several others. These are good bulls, and our prices are bed rock.

Isenberger Bros., Battle Creek, Iowa.

FOR SALE—A splendid high-grade Shire stallion; has plenty of size and bone; weighs 1750 pounds; is 4 years old and in excellent breeding condition. Luers Brothers, Route 4, Sigourney, Iowa.

Pony for Sale Spotted Shetland, 4 years old, in foal; safe for children. Address **LOCK BOX 61 - EARLVILLE, IOWA.**

females will find some bargains here that will surprise them. Mr. Cox wants to get the bulls out of the way, in particular, and will make some special figures on them to those who come at once. For additional particulars write to Mr. R. J. Cox, Grinnell, Iowa.

A Horse-Saving Device.

Every thing that lends to the comfort and convenience of the horse these days will be appreciated because the horse seems to be the most valuable animal on the farm or elsewhere. One of the best means of giving comfort to a horse at the beginning of active farm work is to clip the heavy winter coat. There is no need of arguing this point. Everyone who has driven horses knows that the first few weeks of farm work are a more serious trial to the horse than all the later and harder work of the season. A good deal of this discomfort is due to the heavy winter coat which causes unusual and uncomfortable warmth. Every farmer should own one of Stewart's No. 1 Ball-Bearing Horse Clipping Machines. It only costs \$7.50 and can be had from dealers, or, if \$2 be sent to the Chicago Flexible Shaft Co., 234 Ontario St., Chicago, Ill., the clipper will be sent C. O. D. for the balance. The advertisement will be found on page 42 of this paper.

Alsike Clover.
Alsike clover this year is attracting much more attention than usual. As a rule, it sells at a much higher price, comparatively, than the Common Red, and it is really worth more, owing to the fact that a bushel of the seed will sow double the amount of ground; but this season, strange as it may appear, it is selling at actually a lower price per bushel. This is owing to the fact that the season was very favorable for producing a crop of alsike, while it



A CHAMPION PERCHERON.

Messrs. Metz & Sons, of Homewood, Ill., maintain stables at which may be found the choicest specimens of imported Percheron, Belgian and Shire horses. The illustration given herewith is that of a champion American-bred Percheron stallion at the recent International Live Stock Exposition. This fellow is not an exception with reference to the merits of the horses in the barns of Messrs. Metz, and which are filled with others of the same kind. Write them for particulars and prices. See their advertisement on page 55.

ALLEN'S SCOTCH SHORT-HORNS

SELL IN SALE PAVILION

South Omaha, Neb., April 5, 1910

50 HEAD Consisting of 10 bulls of breeding age and 40 females of the richest breeding to be sold from any herd in America in recent years. Representative sons and daughters of some of the greatest sires of recent years and whose individual excellence commend them to those seeking material for the upbuilding of their herds. The females—14 will have calf at foot, several more are close to calving and the balance are yearling and two-year-old heifers of superior excellence. Several are imported. The bulls, 10 in number, include Lord Missie 252006, one of the great sires used successfully at Golden Hoof Farm, and a richly-bred lot of yearling and two-year-old bulls of herd-heading character. As individuals they will compare favorably with any to be sold this season and carry a stronger line of breeding. The catalog is complete with details and may be had upon application by mentioning The Homestead. Woods, Bellows and Callahan, Auctioneers. Address

GEO. ALLEN - LEXINGTON, NEB.

Note these sales: April 6th, J. A. Kilgour, Sterling, Ill.; April 7th, F. W. Harding, Waukesha, Wis.; April 8th, Thos. Stanton, Aurora, Ill.

was unfavorable for the Red clover. Alsike clover is no experiment, having been successfully and profitably grown in this state for fully thirty years past. Its growth is not as rank and coarse as the Common Red, but still it makes a wonderfully large crop, the hay being excellent in quality. It is usually sown with timothy when desired for hay purposes. It is a perennial, thus making a permanent meadow or pasture on almost any kind of soil, except the high, dry hilltops, but its greatest value to some farmers lies in its adaptability to low, wet land. The Iowa Seed Co., of Des Moines, Iowa, inform us that they have a nice stock of alsike clover which is of exceptional purity and would please the most particular. See advertisement on page 18 of this issue.

Dispersion Sale of Scotch Short-horns.

On April 12th, Messrs. Thomas & Ellison, of Rushville, Ind., will sell their entire herd of Scotch Short-horns at auction. The senior member of the firm has been breeding Short-horns for over forty years and has always had the good of the breed at heart. This sale includes some very desirable cattle. The herd bull, Homer Marshall, is a desirable proposition. He is a roan son of Whitehall Marshall, out of Secret of Anoka by Imp. Golden Banner. He is of the Cruickshank Secret family and a good, thick bull with plenty of quality. This herd of cows has been especially selected for its milking qualities. The females are of the following Scotch families: Victoria, Lovely, Eliza, Duchess of Gloster, Buchan Lassie, Mary Ann of Lancaster and Lustre. The following sires are represented in their pedigrees: Whitehall Marshall, Imp. Golden Banner, Imp. Prince Oederic, Imp. Best of Archers, Imp. Matable Chief, Proud Star II., Champion Archer and Homer Marshall. About fifteen of the cows will have calves at foot and the balance will be safe in calf. The best of bulls have been used in this herd during the past. Among the females are some show propositions. Write at once for catalog and watch next week's Homestead for particulars. See advertisement on this page. When writing please mention The Homestead.

Allen's Scotch Short-horn Sale April 5th.

Mr. Geo. Allen, of Lexington, Neb., proprietor of the Golden Hoof herd of Scotch Short-horns, sells on April 5th, at South Omaha, Neb., fifty head of the most useful class of animals entering a sale ring in many years at this point and one whose breeding is as rich as may be found in any herd in America. Mr. Allen has selected and mated carefully for a great many years the best blood and individuals he could find and this sale surpasses anything he has ever offered. The fifty head are all richly-bred Scotch animals, consisting of ten bulls of breeding age and forty females. Of the forty females fourteen have calf at foot and several more are close to calving. The balance are yearlings and two-year-olds. Among them are several imported animals or their daughters. They were bred principally to the grand breeding bull, Victor Sultan by Whitehall Sultan, and others to Prince Victor 2d, a grandly-bred Victoria, and Lord Missie, a son of Godwin, whose record as a sire is well established. The entire offering is much stronger individually than anything ever before presented from this good herd. The bull offering includes several animals of herd-heading character. Lord Missie 252006, a grandly-bred bull used for several years as chief stock bull, is included and is one of the best propositions presented this season. He is sold for no fault, but they have a great many of the same breeding in the herd. He is got by Godwin and out of Imp. Collinzie Missie by Nonpareil Victor. Clipper King is a two-year-old Cruickshank Clipper by Brawith Chief, out of Cora by Rustler, and is a very breedy bull of good character. Lord Lavender 4th is a June yearling got by Lord Missie,

out of Lady Lavender 2d by Godwin, and is a very strong prospect. Superbus 2d, a two-year-old by Superbus, out of Imp. Orange Lily by Mountain Archer, is a bull much like his famous sire at the same age. Augustus 2d is a Bruce Augustus, a two-year-old of excellent form. There are bulls included to suit both breeder and farmer and should bring out a goodly attendance of both. The catalog is now ready and may be had upon application by mentioning The Homestead. See announcement on this page.

John Goodwine Offers Hampshire Sows.

On page 50 of this issue appears the advertisement of Mr. John Goodwine, of Potomac, Ill., offering thirty bred sows. Hampshires that have gone out from this herd have made good in the show yard and breeding pens. The champion pen of three barrows and champion single barrow at the last International Stock Show were bred and fitted by Mr. Goodwine. Here is the place to get your foundation stock and breed prize winners. The prices are reasonable and you get value received. You had better write at once to Mr. Goodwine and get one of these sows. See advertisement and write him, kindly mentioning The Homestead.

Big-Type Poland Chinas.

In this issue of The Homestead appears the advertisement of Mr. Roy E. Stedum, of Carthage, Ill., offering choice spring pigs of the big-type Poland Chinas. He will book your order now and ship you the pigs at weaning time. He has the breeding of some of the most noted herds in the country, such as Messrs. W. W. Wheeler, Peter Mouw, H. Dorr, Cox & Hollinrake and others. A representative of The Homestead recently visited the herd and can say that the pigs Mr. Stedum is offering are extra good and will please anyone ordering one from this herd. The sows in the herd are very prolific and raise large litters. If in the market for something in this line write Mr. Roy E. Stedum, Carthage, Ill. Kindly mention The Homestead when writing. See this page.

TREATING SEED CORN.

To the Editor of The Homestead:

The other day I saw a recipe for treating seed corn that crows, mice,

and wire worm might not bother it or a few days of wet weather affect it just after planting. I feel like passing it on that the farmers of the land may have the benefit of it. It has been tried successfully in many of the eastern and middle states. Here it is:

Warm the seed corn, then heat some coal tar until it is as thin as water. Put the corn in a tub or vessel of some kind and pour the melted tar over it, stirring the corn at the same time so that every grain will receive a coat of the tar. Now, pour in plenty of air-slaked lime, stirring it thoroughly. This will take up all the sticky part of the tar so that the corn may be planted with any planter.

It will no doubt pay the farmer who lives in those sections where crows and mice are numerous and wire worms bother to try the above plan of treating the seed corn. I have oft-



MANURE SPREADING UNDER DIFFICULTIES.

The illustration given herewith is from an actual photograph of a Galloway manure spreader operated in snow that was up to the hubs. The past winter has been one which was trying in many things and not the least of these was the test which it gave to the various manure spreaders. The Galloway has successfully met all conditions, not only in the case herewith illustrated, but in hundreds of others. This case answers pointedly the criticisms of dealers and others who tell farmers that the Galloway will not work in mud or snow. Dozens of photographs showing the Galloway doing work under all unfavorable conditions may be had. In fact, a good many of them are presented in the great, big, new, highly-illustrated book called "Net Results are What Count." This book is published by the Wm. Galloway Company. It is big and new and the facts it contains are interesting from cover to cover. It, together with the Galloway spreader catalog, may be had free of any charge on application to Mr. Wm. Galloway, president, Wm. Galloway Co. of America, 107 Galloway Station, Waterloo, Iowa.

DISPERSION SALE OF SCOTCH SHORT-HORNS

RUSHVILLE, IND., APRIL 12

60 Head--15 Bulls--45 Cows and Heifers 60

EVERY animal in the sale is pure Scotch, of the following families: Victoria, Duchess of Gloster, Lustre, Lovely, Eliza, Mary Ann of Lancaster and Buchan Lassie. Our herd bull, Homer Marshall, by the champion, Whitehall Marshall, included. Write for catalog, mentioning paper.

THOMAS & ELLISON,
RUSHVILLE, INDIANA.

COLS. GEO. P. BELLOWES AND FRED REPERT, AUCTS.

Mastodon and Giantess Polands

TRUE type of these great type Poland Chinas from the most prominent and popular herds of the breed. Sows selected from the breeding of John Blain, Fred L. Rood, W. W. Wheeler, John Matter, H. Dorr, J. O. James, Peter Mouw, Cox & Hollinrake and others. For sale—I will book orders for pigs at weaning time at reasonable prices for the high quality and famous big-type breeding. Come or write and I will price them right to you.

ROY E. STEDUM, R. 5, CARTHAGE, ILL.

en had to do much replanting on account of these pests, and I would have gladly used the above recipe if I had known of it before the present time. Subscriber.

Some states are considering the matter of passing laws levying a special tax on automobiles, according to the horsepower of the machine. Those who brag so much on the pulling power of their machines might not be so brash when the assessor came around, if it meant a dollar extra for each additional horsepower.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago Union Stock Yards, March 21.—Marketing of hogs at the six leading western markets for the year thus far show upwards of a million decrease from the same period of 1909. At the eleven points the falling off is upwards of 1,600,000. It is thought that the loss will total 2,000,000 in a few more months. Chicago alone is more than half a million hogs shy now. The shrinkage in numbers at all of the marts will be more acute when farmers are busy with their spring work.

WHAT OF THE FUTURE?

Eleven-cent hogs, and what of the future? Every mail brings letters of inquiry from anxious producers and feeders. The 10-cent quotation, booked by bullish traders to arrive some time during 1910, got into market history sixty days ahead of the schedule prepared by those most inoculated with "bull fever." When the 10-cent hog was put over, chronic "bulls," who can always see better prices ahead, set their peg for \$11 swine. That price, like its predecessor, was recorded in such short order as to render him speechless, as it were, for the minute, but he soon recovered and now expectancy of another dollar addition to rates is occasionally voiced, though not in a loud voice, it must be admitted. With prevailing

SCOTCH SHORT-HORNS AT PUBLIC AUCTION

AUDUBON, IOWA, MARCH 29, 1910. 48 HEAD--40 FEMALES--8 BULLS--48

15 Head With Calves at Foot--31 Head of Scotch Cattle.

Lot 1 DEVERGOIL, THIRD (Vol. 66) Cow
Red; calved April 28, 1904; bred by J. H. Maharg; owned by Earl Maharg.
DAMS
Got by Consul's Secret 114846...Cookson Bros.
SIRE'S BREEDERS
Imp. Devergoil Arthur (73963).....A. H. Grant
Picture (Vol. 46, p. 606).....Cleveland Dule (68378).....D. H. Fletcher
Mabel 3d Baron (60296).....G. Walker

Lot 14 VICTORIA BELLE (Vol. 62) Cow
Red; calved March 12, 1904; bred by B. E. Mitchell, owned by Earl Maharg.
Got by Imp. L'd of Manor 160069...Wm. Duthie
SIRE'S BREEDERS
Victoria of Top R. 3d.....Scottish Knight 136371...J. Miller & Son
Victoria Bride Scottish King 109743.....Bellows & Son
Victoria of Meadow R.....Imp. Ducal Cr'n 97149...A. Cruickshank
Victoria Rose Imp. Julius (48173).....A. Cruickshank
Imp. Victoria 71st.....Roan Gauntlet (35284).....A. Cruickshank

Lot 15 LOVELY SYPHO (Vol. 62) Cow
Red; calved April 1, 1907; bred and owned by Earl Maharg.
Got by Burnbrae King 230620...E. W. Bowen
SIRE'S BREEDERS
Lovely A. 2d.....Crimson Chief.....Jno. Birrell
Lovely 29th Pr. Victoria 116918...C. M. Sangers & Son
Lovely 27th (Vol. 43).....Pr. Victoria 116918...C. M. Sangers & Son
Lovely 26th Golden Prince 75068.....D. Cookson
Lovely Lassie 2d.....Imp. Favorite 56041.....Wm. Duthie
Imp. Lovely 25th.....Gen. Windsor (28701).....A. Cruickshank

Lot 12 LADY VICTORIA 22D 20970 Cow
Red; calved Nov. 21, 1905; bred by J. H. Maharg; owned by Earl Maharg.
Got by Burnbrae King 230620...E. W. Bowen
SIRE'S BREEDERS
Lady Victoria 13th.....Crimson Chief 191754.....John Birrell
Lady Victoria 7th.....Consul's Secret 114846...Cookson Bros.
Lady Victoria 3d.....Cr. Pr. 2d of Oakw'd 124972...S. L. Cheney
Victoria Veech Prince President 2d 116890...G. W. Lyle
Imp. Victoria 73d.....Favorite 56041.....W. Duthie
Roan Gauntlet 45276.....A. Cruickshank

Lot 9 LADY VICTORIA 10TH 20967 Cow
Red; calved Nov. 4, 1905; bred by J. H. Maharg; owned by Earl Maharg.
Got by Crimson Chief 191754.....John Birrell
SIRE'S BREEDERS
Lady Victoria 9th.....Consul's Secret 114846...Cookson Bros.
Lady Victoria 5th.....Cr. Pr. 2d of Oakw'd 124972...S. L. Cheney
Lady Victoria 3d.....Prince President 2d 116890...G. W. Lyle
Victoria Veech Favorite 56041.....W. Duthie
Imp. Victoria 73d.....Roan Gauntlet 45276.....A. Cruickshank

Lot 2 IMP. DEVERGOIL Cow
Dark red; calved Jan. 2, 1901; bred by Geo. Mackee, Kingslam, Tranent, Haddingtonshire, Scotland; owned by Earl Maharg.
Got by Arthur (73963).....A. H. Grant
SIRE'S BREEDERS
Picture (Vol. 46, p. 606).....Cleveland Duke (68378).....J. D. Fletcher
Mabel 3d Baron (60296).....G. Walker
Mabel 2d Shapinsay (45581).....A. Cruickshank
Maria 11th Bromley (36289).....W. S. Marr
Cleveland (33397).....A. Cruickshank

Lot 48 LADY VICTORIA 24TH 20972 Cow
Red; calved Oct. 10, 1906; bred by J. Maharg; owned by Earl Maharg.
DAMS
Got by Burnbrae King 230620...E. W. Bowen
SIRE'S BREEDERS
Lady Victoria 5th.....Cr. Pr. 2d of Oakw'd 124972...S. L. Cheney
Lady Victoria 3d.....Prince President 2d 116890...G. W. Lyle
Victoria Veech Favorite 56041.....W. Duthie
Imp. Victoria 73d.....Roan Gauntlet 45276.....A. Cruickshank

Lot 45 GOLDEN NONPAREIL Bull
(Sent for record)
Red; calved March 8, 1909; bred and owned by Alex Campbell, Botna, Iowa.
Got by Nonpareil Boon 168935...Geo. Bothwell
SIRE'S BREEDERS
Golden Gloster 2d.....Scottish King 100743...Bellows & Son
Golden Chain Starlight 117457.....I. Barr & Son
Victor's Duchess of G.....Red Victor 113467.....John Dryden
Crown Princess Imp. Ducal Cr'n 97149...A. Cruickshank
Imp. 22d Duchess of G.....Farmington Pr. (32905).....A. Cruickshank

Lot 47 NONPAREIL DUKE Bull
(Sent for record)
Red; calved April 4, 1909. Bred and owned by John A. Campbell, Botna, Ia.
Got by Nonpareil Boon 168935...Geo. Bothwell
SIRE'S BREEDERS
Nonpareil Lady 8th.....Godwin 115676.....W. A. Harris
Nonpareil Red Lady.....Imp. Aberdeen (11795).....G. Campbell
Victoria Nonpareil 2d.....Imp. Sp't'n Hero (77932).....A. Cruickshank
Victoria Nonpareil Imp. Vice C'n's'l (95532).....A. Cruickshank
Imp. Nonpareil Princess.....Golden Prince (38363).....S. Campbell

Lot 46 TIP TOP 318660 Bull
Roan; calved Jan. 1, 1908; bred and owned by Alex Campbell, Botna, Iowa.
Got by Nonpareil Boon 168935...Geo. Bothwell
SIRE'S BREEDERS
Top Round Victoria.....Baron Pride 169827.....R. E. Owens
Victoria of Top R. 3d.....Scottish Kn't 136371...John Miller & Son
Victoria Bride Scottish King 100743...Bellows & Son
Victoria of Meadow R.....Imp. Ducal Cr'n 97149...A. Cruickshank
Victoria Rose Imp. Julius (48173).....A. Cruickshank
Roan Gauntlet (35284).....A. Cruickshank

Included will be 19 head of Cruickshank Victorias, 2 Orange Blossoms, 2 Lovelys and several Devergoils, including Imp. Devergoil, with a good bull calf at foot. Other leading families will be represented. There will be 6 head of Scotch bulls in the sale of the Nonpareil, Duchess of Gloster, Secret and Victoria tribes. If you are looking for some good Scotch cattle write for my catalog and come to my sale. Many of the cows have calves at foot by my \$1,000 bull, Sultan 3d 278292, a son of Whitehall Sultan, and all females are bred to him. Col. Geo. P. Bellows, Auct. Write for catalog.

EARL MAHARG - - - - - AUDUBON, IOWA.

prices highest since the close of the civil war, higher considering the present purchasing power of the coin of the realm, anxiety as to future prices is but natural and to be expected. A careful study of the situation appears to warrant conclusion that remunerative prices for hogs for months yet to come are a practical certainty as nearly certain as future commercial conditions can be calculated. Swine prices of unusual marketward magnetism have prevailed for so long it is useless to contend the supply in producers' hands is not now of minimum aggregate. So positive is this conviction that alarm is manifest as to the ability of raisers to restore production to near normal proportions short of an extended period. At \$10 to \$11 per cwt. shoats are drawn in the capacious maw of packing houses, brood sows bring more dollars than the milk cow and the premium for stags brought the knife into play on sires in such numbers as to warrant really serious alarm as to swine supplies for near future at least. Frequently during the past year we sought to encourage swine production and swine feeding. Those who heeded the admonitions thus promulgated can give best evidence as to the profits which resulted. We reiterate this advice. It is ill advised to suggest the withholding from market of matured hogs, but young hogs, shoats and brood sows should be retained on the farm. Give them a chance and your bank account will later afford evidence of your wisdom. Keep vigorously awake to the possibilities before the producer of swine. There's money in it.

SHEEP RECEIPTS DWINDLING FAST.

Arrivals of sheep and lambs are dwindling fast. Receipts at the six leading western markets thus far this year display a decrease of more than 60,000 from the corresponding period of 1909. The shortage will be felt most after April. The great bulk of the offerings back in the feed lots are in northern Colorado, and these will have been well sent out by that time. Reports from Kentucky and Tennessee tell of heavy losses of lambs owing to a hard winter and very dry weather in Arizona cutting down the supply in that quarter. After April it looks like famine supplies until grassers come from the western ranges.

BRISK TRADE IN CATTLE.

There was an excellent trade in cattle last week. Market was active on most days and beef steers advanced generally 25 cents over the close of the previous week. Tops made \$8.65, the highest of the year, and sales were largely at \$6.50 to \$8.00. Cows and heifers gained 25 to 40 cents. Most sales were at \$1.65 to \$6.00 for beef grades, \$3.00 to \$3.75 for canners and cutters. Bulls went in main at \$4.85 to \$5.60. Veal calves went at the record price of

LIVE STOCK AUCTIONEERS.

R. W. Mitchell, Albany, Mo.
Live Stock and Real Estate **AUCTIONEER**

EIGHTEEN years' experience. Write me for dates. Copies of my live stock poems free when stamp is enclosed. Am booking fall, winter and spring dates.

Geo. W. Dykes Live Stock Auctioneer. DANA, ILL.

Geo. P. Bellows AUCTIONEER Pedigreed Live Stock Maryville, Mo.

THEO. MARTIN Live Stock Auctioneer. Bellevue, Iowa.

W. D. STOLLER, Auctioneer Live Stock a specialty. Address R. 6, Vinton, Ia.

A. C. Manifold Auctioneer Tarkio, Mo. Pure bred sales specialty

SILAS IGO, Indianola, Iowa Live Stock Auctioneer. Write me for date.

\$10.50, this figure being obtained by Clay, Robinson & Co.

NEW HIGH PRICE FOR HOGS.

The hog market was of the up and down kind last week, yet sellers held the upper hand. Tops made \$11.05, a new high price for the year, and bulk of sales were at \$10.55 to \$10.80 for 135 to 195 lbs. average, \$10.70 to \$10.95 for 200 to 250 lbs. average and \$10.80 to \$11.00 for 260 lbs. and heavier average.

BOOMING TRADE IN SHEEP AND LAMBS.

There were aeroplane stunts in the sheep and lamb trade last week. Woolled sheep and lambs went 25 to 60 cents higher than close of the previous week, while the shorn stock advanced 50 to 75 cents. The practical top on lambs was \$10.25, obtained by Clay, Robinson & Co., for several different lots of high-dressing Mexican lambs, and the summit on shorn lambs was \$9.40, also secured by Clay, Robinson & Co. for a lot of both westerns and Mexicans. Prime western wethers reached \$8.85, with a similar class of ewes \$8.25. Top on shorn sheep was \$7.90, this price being made by Clay, Robinson & Co. Fancy, handy-weight yearlings were quotable up to \$9.00. All of the above prices are the highest ever known on this market.

LIVE STOCK AUCTIONEERS.

H. L. Igleheart
Glendale, Kentucky,
Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

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GRINNELL, IOWA.
Fine Stock Auctioneer

Duroc Jersey and Poland China hogs and Short-horn cattle my specialty. My customers my references. Ask them. Write me.

GEO. B. BUCK
SUNNY HILL, ILL.

LIVE STOCK AUCTIONEER

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CAREY M. JONES,
Live Stock and Real Estate
Auctioneer,
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If you want to buy or sell a Farm, City Property or Subdivision, no matter where located, write for terms and dates.

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LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

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SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed.
W. F. STRATTON, CAMBRIDGE, IOWA,
Breeder Short-horn cattle and Duroc Jersey swine.

H. S. and W. B. DUNCAN
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Thoroughly posted in pedigrees and sales cried anywhere. Write us for dates.

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Live Stock Auctioneer.

Cattle Sales a Specialty.....
Write for Dates and Terms.

ELWOOD J. PITTMAN
STERLING, ILLINOIS.
Fifteen years' experience
selling live stock.
Write for Terms and Dates.

N. G. Kraschel
MACON, ILL.
Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.

C. G. EVANS
North English, Iowa.
Live Stock AUCTIONEER
SALES made anywhere. Reasonable terms. Have pleased others; can please you.
Write for Dates.

PLINY NICHOLS
WEST LIBERTY, IOWA.
Live Stock Auctioneer
SALES made anywhere. Reasonable terms. I also breed Poland Chinas and Short-horns.

O. L. MOSSMAN, MASON CITY, IA.
LIVE STOCK AUCTIONEER
Thoroughly posted as to pedigrees and values.
Write for dates. Terms reasonable.

LIVE STOCK AUCTIONEERS.

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One hundred and twenty-one students attended the January term, 1910. NEXT FOUR WEEKS' TERM WILL OPEN APRIL 4TH, AT OKLAHOMA CITY, OKLA. The tuition the same as heretofore, \$50.00 down and \$50.00 after you have made \$200 out of the business, no note required. Lifetime scholarship given.

AUCTIONEER JOKER, published monthly at 50c per year. Wm. Carpenter, President. Address: Trenton, Mo., until March 4th, after that date Oklahoma City, Okla.

C. C. KEIL, Auctioneer, GRINNELL, IOWA. PEDIGREED STOCK A SPECIALTY. 20 YEARS' experience as breeder and auctioneer. Talk English and German. Write me at once.

LIVE STOCK ARTISTS. A. V. LOCK, REMINGTON, INDIANA. Live Stock Artist. Write me. When writing mention this paper.

POLAND CHINA SWINE.

50 LARGE-TYPE, BIG-BONED POLAND CHINA SOWS

THESE sows are sired by Hadley, P. W. Giant and Jumbo. They are bred to Hadley and Victor (he by Big Victor, second prize aged boar at Nebraska State Fair, 1909). Choice tried sows, 350 to 400 pounds, \$50 to \$75. Fall yearlings, 300 to 400 pounds, bred to farrow March and April, \$45 to \$75. Spring gilts, bred to Victor for April and May farrow, 200 to 260 pounds, \$32 to \$50. They are heavy-boned, smooth, well-grown sows, sired by \$100 and \$150 boars, bred to the same kind, and as good as are grown. Sold 85 boars and sows this fall at an average of \$40. Shipped to eight states. Sold 1,000 for breeders in seven years. Careful selections made for mail orders. Pedigrees furnished at time of sale.

F. W. MCINTYRE - R. F. D. 5 - RED OAK, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. HELD BROS., HINTON, IOWA.

FALL BOARS FOR SALE

I am now offering some splendid fall boars for sale sired by my noted show and breeding boar Big Victor and out of my best sows. Address, D. C. LONERGAN, Florence, Nebraska.

BERKSHIRE SWINE.

PRINE FARM BERKSHIRES

Herd established 1871 and constantly at it. I can sell you pigs of either sex of the type that will please and produce results. Address

George S. Prine, Oskaloosa, Iowa.

DUROC JERSEY SWINE.

DUROCS

WE are not offering any just now, but watch for us. We have some of the best sows in the country, bred to boars of the same kind. We have a few extra good Red Polled bulls of serviceable age, and will price them right.

"The Always Better Kind."

C. W. HUFF, Mondamin, Ia.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY. Write Your Wants.

B. & C.'S COL. Grand champion, Illinois and Iowa, 1909. Crimson Wonder, 111., grand champion, Nebraska, 1908, and McNeill's Model, champion under year, Ohio, Indiana and Illinois, 1907. Sows all sold. A few good boar pigs (Ed. A. Baxter, Pawnee, Illinois. Address R. L. Comer, Carlinville, Illinois.

ORNAMENTAL Herd of Duroc gilts, bred to farrow in March and April; \$25 to \$10. For particulars, write S. S. Krebill, Donnellson, Iowa.

MIDLAND Herd Duroc Jerseys. Bred sows all sold. Yearling boar for sale. Orders booked for spring pigs, July delivery. S. J. Butts, Mason City, Ia.

DUROC JERSEY SWINE.

Crimson Wonder Again FALL GILTS FOR SALE

We have a few very choice September gilts for sale at prices that will please. Also booking orders for sows bred to Crimson Wonder Again for fall farrow.

H. S. ALLEN, RUSSELL, IOWA.

Helen's Chief High Notcher

Glad Col. and King's Col. head my herd of Durocs. I will sell King's Col. by King of Cols. Write for price.

M. A. KRASCHEL, MACON, ILLINOIS.

Duroc Jersey

Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

ARTHUR L. PARKS, LELAND, ILL.

King of Cols. Show Boars

We are offering four junior yearling show boars by King of Cols., one of them a full brother to Chief's Col. One good junior yearling boar by King of Cols. II. Visit us or write for particulars, mentioning this paper.

S. E. MORTON & CO., Camden, Ohio.

20 Duroc Gilts Bred 20 AT PRIVATE TREATY

Sired by King of Cols. 2d and G. C.'s Col. Bred to Elder's Wonder and F. E.'s Col. Also choice summer boars by same sires.

FRANK ELDER, GREEN, KAN.

25 DUROC JERSEY BRED SOWS FOR SALE

Sired by King Solomon II., Advancer's Choice; 5 others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once. Address A. Leutz & Son, Pierson, Iowa.

Crimson Wonder I Am

SIX winter boars by this great sire now ready to go out. All of them crackers. Three fall boars by American Crimson Wonder. Nothing but show yard quality to offer. U. G. Davidson, Scranton, Iowa.

DUROC JERSEY SWINE.

WE HAVE HAD A VERY GOOD BOAR TRADE

AND still have a few good Col. males left, and they have plenty of quality. One sired by King Solomon II., one sired by Tientsin 2d, the State Fair winner; one spring and one fall yearling sired by old Tientsin 17261. I could spare Tokio 79013, one of the best sons of Tientsin, a line bred Tolstoy boar, and has proven himself a splendid breeder, but owing to having so much stuff related to him, will spare him at a reasonable price; in fact, all the boar stuff we have will go at a very moderate price. We have quite a number of August and September Col. pigs. We will sell cheap, so come on and let us fit you out with a Col. boar; prices right. A. L. MOSSMAN & SON, RADCLIFFE, IOWA.

10 GOOD DUROC SOWS BRED 10 ALSO 2 CHOICE BOARS BY KING OF COLS. II

ALL are of our choice breeding. Sows bred to G. C.'s Kan. Col. by G. C.'s Col. and Col. C. by Kan. Col. II. and out of Red Princess. Write or come and see them. Chapin & Nordstrum, Green, Kan.

BRIGHTON FARM DUROCS

A LIMITED number of aged sows, fall and spring gilts for sale. Descendants of Tolstoy, Pericles, Achiever. Bred for March and April farrow to Walter Model by Golden Model 2d and Gen. Moon, a grandson of Crimson Wonder I Am. For prices and further description, write to HOFFMAN & CHAPMAN, WASHTA, IOWA.

40 HEAD DUROC JERSEY BROOD SOWS FOR SALE

Sired by Crimson Critic, I Am Advance, Belle's Chief I Am and other noted boars. Bred to S Harding's King of Cols. and my other noted herd boars. 12 fall boar pigs for sale that are show prospects. Write me about these at once. Address R. J. HARDING, MACEDONIA, IOWA.

60 Never Root and Ear Marker

Stops all hogs rooting; gauges back of adjustable blades insure good job. Ear Marker and numbers all stock. DECKER MFG. CO., Keokuk, Iowa. Both articles guaranteed

75 CENTS Postpaid

75 SAVES PIGS and LAMBS. Easy to use. Holds any hog with two fingers. NOG HOLDER

75 CENTS Postpaid

DUROCS \$22 EACH

A LIMITED number of choice gilts, grand-daughters of old Kant Be Beat for sale, bred to Model Chief Gold, a full brother to Model Chief 2d; bred to farrow in March and April; will be priced worth the money. Write

J. W. TROY & BROS., ROSE HILL, MAHASKA COUNTY, IOWA.

WE are sold out of large gilts and old sows, but have some choice younger gilts, combining the blood of Orion, Crimson Wonder, Tip Top Notcher, etc. They will weigh from 140 to 160 lbs., bred for April and May farrow. Will crate and deliver to express company as long as they last at above price. They are bargains. Get your order in before too late. Same price, \$22 apiece for one or a dozen. WOODLAWN FARM, STERLING, ILL.

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banker 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows. VON SEGGERN BROS., WISNER, NEB.

When writing mention this paper.

Bred SOWS

WE have thirty head of well-bred Duroc Jersey sows, to farrow in March, April and May for sale, at \$35 to \$50. White Bros., Perry, Iowa.

When writing mention this paper.

CHESTER WHITE SWINE.

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address S. J. Philson, Harlan, Iowa.

MEHRING'S CHOICE O. I. C. strong-boned, smooth, well-quartered July boars for sale. Some fine Shropshire ewcs. H. C. Mehring, Manson, Ia.

When writing mention this paper.

40 HEAD CHESTER WHITE BRED SOWS

I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address S. J. Philson, Harlan, Iowa.

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

CHESTER Whites. Gilts and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa

Mehring's Choice O. I. C. strong-boned, smooth, well-quartered July boars for sale. Some fine Shropshire ewcs. H. C. Mehring, Manson, Ia.

When writing mention this paper.

Mear's Chester Whites

4 fall boars and a great string of pigs by

NEPONSET ED. 16711

Are ready to ship any day. All sold out of bred sows of any age. Write or come.

E. L. MEAR, LAMAR, MO.

SCARFF'S O. I. C.'s

A offering a fine bunch of O. I. C. males and gilts with extra length and bone, sired by sweepstakes boar, Norway Chief, and Ohio Chief. Prices \$20 and up. Write for descriptions. J. T. SCARFF, SALEM, IOWA.

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MAPLE LEAF HERD OF HAMPSHIRE

My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.

WAYSIDE HAMPSHIRE

WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead. MIKE SHARP, COAL VALLEY, ILL.

25 Head of Spring Boars 5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable. H. D. DeKALB, DeKALB, IOWA.

HAMPSHIRE Swine

WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.

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HEREFORD CATTLE



THE direct profit in beef production must depend in no small measure upon cheapening the cost. A Hereford steer may be brought to a marketable age at a lower cost than any other breed, because he is a better rustler and does not require so much babying. We prove it at Brookmont Farm. We can sell you bulls, cows or heifers that will convince you. The world produces no better lines of breeding. Come and see us, or write to

A. E. Cook, Odebolt, Ia.

HAMPSHIRE SWINE.

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I won champion on pen of Hampshire barrows; also champion on single barrow at the '09 International Stock Show. Thirty sows bred for March, April and May farrow, for sale. I am also breeder of Short-horn and Double Standard Polled Durham cattle, Bourbon Red turkeys, Pekin ducks and Barred Plymouth Rock chickens. Write me.

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Large Yorkshires Champion Herd of U. S.

Special offering now 128 gilts, 9 to 12 months, guaranteed safe, due last of March to June, now ready for shipment; weight 200 to 375 lbs., prices f. o. b. \$40 to \$75 each, depending on size, quality, age and date of breeding. Also 20 sows of fall litters at \$25 each. Order early, as demand was never so strong.

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Violetta Victoria 181966

Dropped a bull calf on December 27, 1909. If you want a grandson of Golden Fern's Lad that will be a bull worth having, take this one. He is sure some bull! \$50.

Sunny Peak Farm, Elm Grove, Wis.

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We offer a few mature cows for breeding purposes, a few young cows and heifers and a magnificent lot of young bulls sired by King Sappho King 63262 and Loretta D's Champion Son 77002.

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VALLEY FARM

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YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. **Fred Tschudy & Sons, Monroe, Wis.**

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**34
BULLS**

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**26
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**34
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COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want.

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CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and Bred to Narcissus King, singly or by carload. You will buy if you see them.

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I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

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Aluminum Ear Markers are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them.

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TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls. Headlight and Brawlt Lad. For description and prices, address

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HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

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Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.

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Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all red; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live-and-let-live prices.

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I AM offering a splendid lot of young Scotch bulls for sale, sired by American Goods, a son of Imp. Choice Goods and Baron Kear 3d. Strictly all right and prices reasonable.

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AN extra 14-months' Scotch (Secret) calf by Lavender Fitz, out of a heavy milker. A husky, 21-months' red fellow by the same sire.

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FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

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HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address,

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HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfold Thicket, sired by bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thicket, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Herdsman.

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SIRE by Scottish Hero 52494 and Glen's Prileno 91606. In ages from 10 to 20 months, in good, useful condition for the buyer. If you want bargain prices on bulls write me.

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I HAVE a splendid 2-year-old Trojan Erica, a 2-year-old Blackbird and Pride bull. Also Queen Mothers and several younger bulls at bed rock prices. John H. Fitch, Lake City, Iowa.

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THREE bulls for sale; also three bull calves. I dropped last August and Sept. They are sired by ton bulls and out of one of the best cow herds in the state. My cattle have size, breeding, quality. Call on or address A. G. Messer, Grundy Center, Ia.

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I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equestor; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

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Ericas, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

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Males and Females for Sale WRITE TODAY.

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They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

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THE herd numbers about 90 head. We are breeding for production and at this time are offering a few males and females at reasonable prices. If you are interested in Guernseys write or call upon

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Pure Bred Guernseys For Sale

A FEW bull calves under six months of age. No females. Send for sale list.

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SHIRE, Clyde and French Draft stallions. Standard-bred stallions and mares. Registered draft mares. (Decatur County).

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80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address

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A 3-year old matched team, a 5-year-old and a yearling, all mares, and the three older ones safe in foal by an Imported Iowa state fair winning stallion. Write for prices.

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IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.

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ONE young jack and 2 young Jennets for sale at less than price of jack. Selling out. Also good stock farm to sell. J. H. McAllister, O'Neill, Neb.

HORSES.

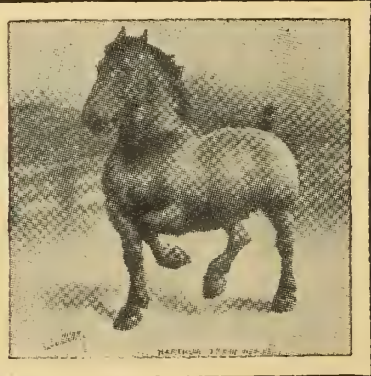
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We are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old, and third on Belgian mare three years old. **PETER HOPLEY & SON, LEWIS, IOWA.**

Percherons, Belgians and Shires

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Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

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Write for Reduced Price on all Stallions, Mares and Jacks.

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FOR the next thirty days, will give attractive prices on Imported Clydesdale Stallions and Mares; also a few choice bred huckneys, sired by the London champion, Copper King. Will show you the best string of Clydesdale stallions and mares in the U. S. Our show yard record will convince you that we have the goods. Our terms are liberal. Kindly write for catalog and prices, and we will surprise you.

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HORSES.

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WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA.
C. O. Keiser, Keota, Iowa

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.



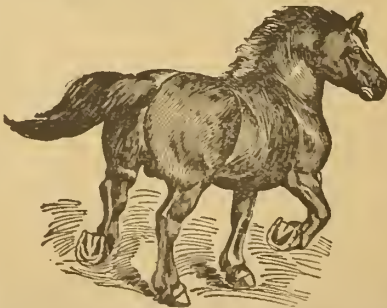
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If you want to see the best bunch of Belgian stallions to be found anywhere in the West, come to our Sioux City branch barn. Our guarantee is iron clad and there is no importer in the United States who can beat our terms and prices. A visit will convince you. Write for our 1910 catalog. Barns at the Sioux City Stock Yards.

Herbert E. Bray, Manager, Sioux City, Iowa

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST
Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.

Ensign's PERCHERONS



OUR importations of prize-winning mares, ages from two to four years, arrived at our barn direct from France, November 16th, and many of them are of the ton type and some are showing in foal at the present time. Many of our selection were prize-winners at the leading shows in France this season. For quality and bone, none are better. Come and inspect them, or write **S. A. ENSIGN, CLEGHORN, IOWA**
C. A. PINGEON, Sale Manager.

HORSES AND JACKS.

PERCHERON, SHIRE, BELGIAN AND COACH HORSES

WE have no great blows to make nor big lies to offer, but we today submit to the public a class of horses suitable to the American farmer. We are not stale importers who have been unsuccessful in all our undertakings, but we live and own farms in the garden spot of America, and have farmed, raised and shipped horses all our lives, and it is our knowledge of the need of practical and profitable draft horses that led us to import and offer our fellowmen this sort of stallions.

**TAYLOR & JONES, WILLIAMSVILLE, SANGAMON COUNTY ILLINOIS.
BOX 68.**

THE FORD STOCK FARM



Best of Imported Stallions

2 to 4 years old, from \$700 to \$1,400, and the best of American bred 2 and 3 year old stallions \$400 to \$900. This includes both Percherons and Belgians for quick sales. Personal investigation desired, and correspondence solicited.

**FORD & HARRINGTON, PARKER, SOUTH DAKOTA.
FAIRBURY, ILLINOIS.**

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Percheron and Belgian STALLIONS AND MARES

OUR third importation arrived January 13th; all with quality, size and action. Stallions from \$800 to \$1,000, a few show horses a little higher. Best mares \$650 in foal. I can save you from 20 to 100 per cent on imported horses the way business is done in this country. Every horse is sold with a reliable pedigree and guarantee. Seward is 29 miles west of Lincoln, Neb.

JOSEPH ROUSSELLE & SON - SEWARD, NEBRASKA



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of *A Percheron* stallions this year. 80 HEAD STALLIONS AND MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see *OUR Percherons* before buying. Telephone service. Their 1909 importation arrived November 18th. **Ernest L. Humbert & Son, Corning, Ia.**



JOHN MORAN NEVADA, IOWA.

IMPORTER AND BREEDER OF

PERCHERON Stallions and Mares

At the present time I am offering twelve head of grand imported mares and three imported stallions at prices that will look attractive to buyers. If you are intending to buy come and see these stallions and mares. The mares are from yearlings up to four years of age, both blacks and grays, and matched pairs can be selected. For good goods at the right kind of prices I can satisfy your wants. Come and see me.

Percherons and Belgians

THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY." Compare my horses and prices with competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.

**W. J. BUTLER, OTTAWA, ILLINOIS.
Long Distance Phone.**

Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales.

L. A. MATERN, WESLEY, IOWA.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

FRANK L. STREAM, Creston, Iowa.

I HAVE THE LARGEST JACKS

In the world, in both imported and home-bred. I have sold over seven hundred Jacks from my farm here, and they have situated and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class Jacks. Let me show you before you buy. **W. L. DECLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia.** Register your Jacks in the American Jack Registry. Write for blanks.

Percherons and Belgians

I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 Jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri Jacks—the best that grow—14½ to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop., EOLIA, MO. Pike Co.

Percheron Stallions Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. **Will F. Hooker, Northboro, Page Co., Ia.**



HORSES AND JACKS.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

Stallions and Mares

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.



HENRY LEFEBURE, FAIRFAX, IOWA.

REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.**

IMPORTED PERCHERON MARES

Bred to Carnot 66666, International Champion of 1909.

Imported PERCHERON STALLIONS

2-Year-Olds; 3, 4 and 5-Year-Olds; Blacks and Grays.

If you want horses with lots of bone, quality, style and action I can please you. My January importation is now in my barns. I would like for you to see the mares bred to and heavy in foal to Carnot. Get my prices before buying. Only one yearling stallion of my entire importation is reserved. Come and see my 1910 importation.

S. J. MILLER, Kirksville, Missouri.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



CLYDESDALE HEADQUARTERS

McLay Bros., Janesville, Wisconsin

New Importation

18 HEAD STALLIONS AND MARES Due March 12

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine International than any competitor; and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them, too. Why above all today does "a Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

PERCHERON MARES BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

C. G. GOOD, OGDEN, IOWA.



PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. **CHAS. IRVINE, ANKENY, IOWA.**

Best Imported Percheron, Belgian, English Shire, Suffolk Punch, and German Coach Stallions, \$1,000 Each.

Imported mares; home-bred stallions, \$250 to \$650 each.

A. Latimer Wilson, Creston, Iowa.

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. **Ben Bohlander, R. 2, El Paso, Ill.**

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs.

We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.

Stallions and Mares ...For Sale...

THE Iowa State College is offering for sale two choice Clydesdale stallions, coming two years old; one Clydesdale mare, five years old, and one imported Shire stallion, five years old. Address

**DEPARTMENT OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.**

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

**RENO & MORRISON,
BATAVIA, IOWA.**

FOR sale—A Morgan stud colt, coming three years old; color bay; a fine individual and priced reasonable. Come or write **F. Bowman, Eldora, Iowa.**

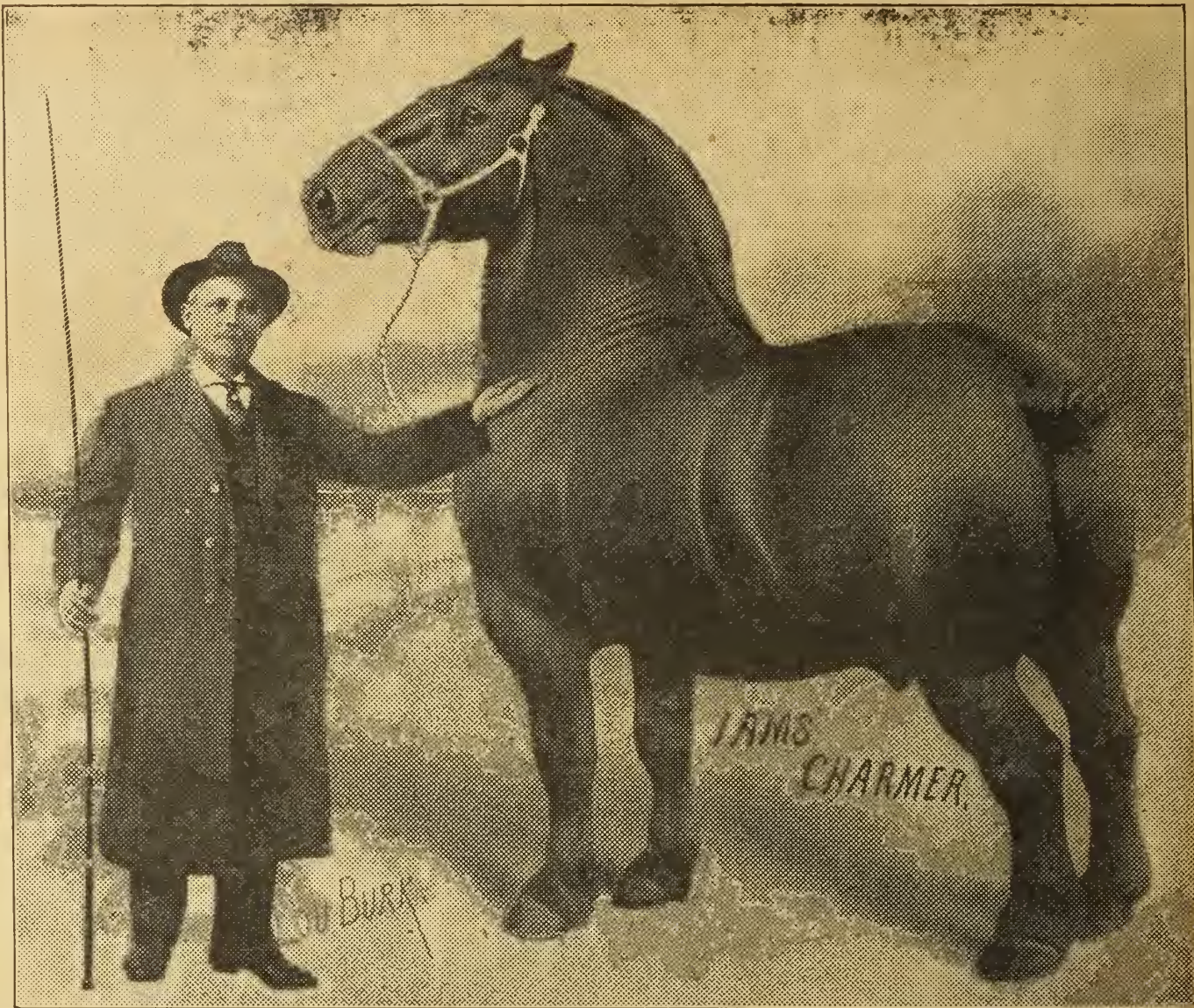


FRANK IAMS' PRIZE STALLIONS

and Mares, and his "new suit" of "selling clothes" will sure fit all buyers. Iams sells horses, and they "hypnotize" "car loads" of "Ikey stallion buyers," and make them "sit up and take notice," and buy imported horses of Iams. His big "black boys" are "ripe peaches" and all must be sold. Get onto "Iams' money-saving game." Buy stallions and mares today. Get stallions ready for "spring business," Ikey Boy. Be the "early bird;" they get the business and choice of Iams' "black boys" and "top notchers." "Leave your happy home," visit the "peaches and cream" stallion man, and save \$1,000. Every day is a "bargain day," a "horse show day" and a day of "profit and pleasure" at Frank Iams' "Stallion and Mare Emporium," the largest in the United States, at St. Paul, Neb. You will positively see here more imported stallions and mares—"top notchers," "medal winners," "ribbon grabbers" and everyday "business" horses than at any "horse plant" in the United States, and double all others in Nebraska. Iams backs up his "ads" and catalog with a "\$500 Bonus" (no others do this). He gives five of the best banks in Nebraska as references.

IAMS' 110 KINGS AND QUEENS OF PERCHERONS AND BELGIANS

are all "top notchers." No International "tail ends," no "auction stuff," no "pick ups" or "peddlers' horses," but the best bunch of big-boned, big drafters of quality and finish, in the United States, and in the "pink of condition." Iams is a "big fly in the ointment" in the "horse business." He "sets the pace" for all competitors, "Ikey Boy." Buy an imported stallion and two mares of Iams, the horseman who "does things." Get into Iams' Band Wagon; don't be "sidetracked" by any "hammer knockers." "Ikey Boy," "waltz me around once again," and land me at Iams' "four importing barns" and box office, filled to the roof with big "black boys and girls," at bargain prices. Iams is the only horseman who really has "the goods" as advertised. 1910 promises to be the most prosperous year in history. Mr. Stallion Buyer, "come on down town." Iams'



Get into Iams' Band Wagon; don't be "sidetracked" by any "hammer knockers." "Ikey Boy," "waltz me around once again," and land me at Iams' "four importing barns" and box office, filled to the roof with big "black boys and girls," at bargain prices. Iams is the only horseman who really has "the goods" as advertised. 1910 promises to be the most prosperous year in history. Mr. Stallion Buyer, "come on down town." Iams'

New Barn of 60 Gold Medal Winning Percheron and Belgian

Stallions and Mares is opened up for sale (not seen before)—positively all his largest and best horses are in his barns yet. Son Ikey, all the World Knows Iams, the Big Horseman. He has "money-saving" feeling for horse buyers. He sold 60 imported stallions and mares to "Iowa boys" in 1909, and 150 "top notchers" to the boys with brains in other states. Iams sells \$4,000 imported stallions at \$1,000 and \$1,400 (some higher); imported mares in foal, 1,700 to 2,400 pounds, at \$700 to \$1,000; many medal winners. Iams sells the "wide-as-a-wagon" kind that don't need to be "peddled" or put on the "auction block" to "catch suckers." Iams is a horseman in a class by himself; he is selling more horses yearly. Ikey Boy, don't be the lobster; "be the wise guy after all." Try Iams, the "peaches and cream" stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a "warm spot" in his heart for all stallion buyers.

HE SAVED \$300,000 TO STALLION BUYERS IN 1909

by selling stallions direct to the people, saving all the middlemen's profit. Iams is an expert horseman. He knows the "top notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin'-and-a-shovin' high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick salesmen that are "pulling the wool" over the eyes of honest farmers and selling them a \$1,200 stallion for \$3,000 and \$4,000. "Son Ikey," form your own "stallion company." Visit Iams' town of barns filled to the roof with big, "black boys," the "best ever"—"Iams' kind." His 110 stallions and mares, 2 to 6 years old, weight 1,700 to 2,500 pounds, 90 per cent blacks, 60 per cent ton horses, are a horse show better than the International.

IAMS' 1910 HORSE CATALOG IS AN "EYE OPENER"

a "bunch of gold," the "book of books" to stallion and mare buyers. It is full of truths, facts, "business propositions," and 115 illustrations of the best and largest imported stallions and mares in the United States, "true to life," the "wide-as-a-wagon drafters"—the real "peaches and cream" stallions. It shows the "tricks" of "stallion peddlers" and "auction block" salesmen. It is the finest, most elaborate and original up-to-date book in the world. Iams' twenty-eight years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on honor. A boy or lady can buy as cheap as a man, and get a better horse of Iams, the "square deal" horseman. If you visit him and don't find every statement in his advertisement and catalog as represented, you can get the \$500 hung up. Iams guarantees to sell you a

BETTER STALLION AT \$1,000 AND \$1,400

(few higher) than are being sold to farmers' stock companies at \$2,500 and \$4,000; with 60 per cent breeding guarantee, with freight and fare paid by Iams. He can furnish buyers \$1,500 insurance. You say, "Why can Iams sell better stallions at half the price of others?" Iams buys and sells every stallion himself. He buys stallions by special train load, 200 at a time. He speaks the language, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick" salesman \$100 to \$1,000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions.

Iams Makes SPECIAL PRICES at His Barns for 60 Days

He has all his largest and best horses on hand yet—not seen by the public before, now for sale. He sells stallions by "hot" advertising, and having "the goods" to make every statement good. Iams sells stallions so good that they do not need a "slick peddler" or the "auction block" to sell them. Special prices made at Iams' barns only. Iams will save you \$1,000 in commissions and middlemen's profits. "Papa, dear," buy me a pair of imported mares of Iams. They will raise me colts at six months old that will sell for \$500, and be good for twenty years. Iams has the kind that lays those "golden eggs." Don't let one of these "auction men" "hand you a lemon" with one of those so-called American full bloods with questionable breeding.

IAMS' "SELLING CLOTHES" FIT ALL BUYERS

Write for Iams' million-dollar horse catalog. Iams' guarantee is backed by a "Half Million Dollars." References: Omaha National and First National, Omaha; Citizens' National, St. Paul State Bank and First State Bank, St. Paul, Neb.

ST. PAUL, NEBRASKA.

HORSES.

1878 TRUMANS' CHAMPION STUD 1910

100 Shire, Percheron, Belgian and Hackney Stallions 100

SPECIAL PRICES FOR 30 DAYS. THIRD IMPORTATION FOR 1910 ARRIVED MARCH 14th.

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in THE WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

BELGIAN and PERCHERON STALLIONS

I HAVE 22 big Belgian stallions that weigh from 2,000 to 2,600 pounds each. Also have a number of big, heavy ton Percherons, weighing up to 2,400 pounds each. I am making extremely low prices on big stallions for the next thirty days, and it is to your interest to see them if you want a big-boned, heavy horse. I can show you the largest Belgians and the best bone and quality that you can find in the United States for the money.

W. L. DE CLOW, CEDAR RAPIDS, IOWA.
America's Largest Horse Importer.

ONWARD WILKES FARM

JEFFERSON CITY, MISSOURI.

THE HOME OF THE WINNERS

COMBINATION SALE

OF HIGH-GRADE SADDLE HORSES, SPEED HORSES, BROOD MARES AND A FEW YOUNG JACKS

April 11 and 12, 1910

Ask for catalog. Consignment solicited.
Write us your wants. Also what you have to sell.
JAS. HOUCHIN, Proprietor. T. D. ANDERSON, Supt.

Special Announcement of Our Second Annual 30-Day Sale

STALLIONS and MARES

WE can show you a grand lot of imported horses—Percherons, Belgians, and Shires—that landed here last Aug. They are now in excellent breeding form, all dark colors, 2 to 4 years old, weighing from 1,800 to 2,100. Also a choice lot of American-bred Percheron stallions of serviceable age, yearlings and stud colts. Our importation of Percheron and Shire mares is now ready for sale. With them we can show you a grand lot of American-bred Percheron mares and fillies. All mares of breeding age in foal. Over 100 head of stallions and mares to select from. Every animal goes on the bargain counter. All International winners included. Nothing reserved. Write us your wants today; we will tell you if we can please you. Car fare refunded if you find we have misrepresented anything to you. Remember, every animal guaranteed a satisfactory breeder. If you want a real bargain in a first-class animal of either sex, come at once and get your choice. Our Motto: Prices right; terms to suit; satisfaction guaranteed; no misrepresentations or disappointment on arrival. Write our home bank for reference. Homewood is on the main line of Big Four and I. C. R. R., 23 miles south of Chicago. Suburban trains hourly. Bell 'phone, Homewood 204.

S. METZ & SONS, Homewood, Ill., or Abilene, Kan.

Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1908 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.

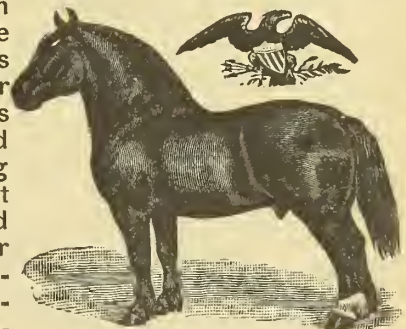


THE GREELEY HORSE IMPORTING COMPANY

Our 1909 importations since April 1, include one in April, one in June, one in July, one in September, one in October, one in November, another shipment arrived about the holidays.

PERCHERONS, BELGIANS, SHIRES, GERMAN AND FRENCH COACHERS AND HACKNEYS

WE purchased every horse personally and we refused to consider any that were blemished, and the result is we have a remarkably sound and useful lot of stallions of these breeds. We have 40 gray two-year Percherons of very drafty make-up, and possessing splendid bone. In fact, this is a feature that we paid special attention to this year, and probably no other importation includes as many large, good-boned stallions. We are bringing over a number of select mares for private sale and to meet the requests of our patrons. In view of our facilities in making these purchases, one of our firm being in Europe nearly all of the time, we are able to make lower prices than other importers on the same class of stallions. We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for, and by our extensive acquaintance among the breeders of Europe we are able to locate a much better class of horses. Our barns are full now, offering the greatest opportunity for the selection of Draft, Coach and Hackney stallions that has ever been provided. We want you to come to Greeley and look them over. That's all.



A. B. HOLBERT, Greeley, Ia.

PERCHERON, ENGLISH SHIRE AND BELGIAN STALLIONS

MR. FARMER—do you intend to purchase a stallion this spring? We have just received a new importation of 25 head of PERCHERON, ENGLISH SHIRE and BELGIAN STALLIONS. These stallions have never been shown to the public, but our sale barn containing this new importation will be thrown open to our customers on March 12th. If you want to get in on the ground floor and get your pick from this importation, you want to make arrangements to visit us at an early date. They are an extra lot of good, heavy-boned, drafty stallions, ranging in age from two to five years and weigh from 1,700 pounds up. They are nearly all solid colors. We also have 40 head of the above named breeds imported last August and October. They are all first-class in every respect, both as to their breeding and general make-up and will please the most discriminating buyer. As to our prices, will say that we will give prospective purchasers prices that cannot help but please, breeding and quality considered. We give a straight 60 per cent guarantee without any ifs or ands attached to it. SEND FOR OUR 1910 CATALOG. It is free for the asking. Our sale barns are located opposite the University State Farm. Offices in the Lincoln hotel.

WATSON, WOODS BROS. & KELLY CO., LINCOLN, NEB.

New Importation of Percheron, Shire and Belgian Stallions

EXTRA weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, DIANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.

Get in on the BIG Sale

100,000 Rolls of Choicest, High Quality, Flint Coated Gordon-Van Tine Roofing Absolutely Butchered—

Going! Going! Going!

at Such **LOW PRICES** as May Never Again be Known in the Roofing Business!



Trainloads Are Going Out Every Hour of the Day Containing Orders from a Single Roll to a Carload!

The most stupendous Roofing Sale in history is now under full headway. Thousands upon thousands of Gordon-Van Tine Preferred Quality, Flint-Coated Roofing—the highest grade of Roofing in the world—are being thrown on the market at price reductions that mean a tremendous sacrifice of profits. Every roll is guaranteed, and our guaranty is backed by \$250,000.00.

We bought big quantities of raw material at a saving of thousands of dollars, and can thus "clean house" at **AWAY BELOW PRESENT PRICES** and still come out even. That's all we expect. You get the benefit.

Immediate Shipment Guaranteed if You Order from this Ad 48 hours from the time your order is received the goods will go out from the nearest warehouse to you. This will keep freight away down. But you must order right away. If you are not quite ready to receive the Roofing we can accept a limited number of Reservation Orders when accompanied by cash and for shipment within 60 days. We can't hold off longer than this, for every inch of space will be needed by then. The Editor of this paper will tell you that you are perfectly safe in sending money this way. If we are sold out when your order comes we will return the money by next mail.

We Sell by Mail Only We pay no dealer's profits, rents and losses. We pay no salesmen. Our army of customers send their orders direct to us! Our low prices and our guaranteed qualities are the magnet! Our friends keep the savings in their own pockets! Our quick delivery warehouses in six cities are jammed with bright, fresh, flawless, flint-coated Roofing. The Surplus Stock is being shipped out in trainloads. You need Roofing NOW—you get a Wonderful Bargain NOW. You want the best—you want the saving. You want the Gordon-Van Tine Guarantee.

Order Now and Make Big Money!

You can't make money easier than to buy Roofing during this Sale. Even if you order more than you need you can sell any that is left over at a good profit, right among your neighbors! With Gordon-Van Tine Roofing you can put a Roof on any Building at one-third the cost of a shingle roof!

You will find our Guaranteed Roofing on the great Sheep Barns of Western Ranches—on the mammoth Barns and Sheds of the big Cattle Ranches—on the fine Barns of the Dairy Districts—on the Houses, Barns, Tool Houses, Hog Houses, Poultry Houses and other Out-Buildings of the general Farmer.

This Is a Quick-Action Proposition!

At the prices we are now making it is unquestionably the most remarkable Value ever offered to the Buyer of Ready Roofing. The 100,000 Rolls of Surplus Stock will soon be gone. Don't fail to take advantage of the Great Warehouse Clearance Sale!

Grand FREE Millwork Catalog!

We sell Millions of Dollars' Worth of Roofing and Building Material by Mail, Direct to Users in every State. Every Article Guaranteed for Quality, Safe Delivery and Satisfaction by the Biggest Roofing and Millwork Plant in the World, with a Paid-up Capital of \$250,000.00. The prices on the 5,000 Millwork Bargains Listed in our Great Catalog will astonish you. Stop paying Double Prices to Middlemen! Save 50 per cent of your Money and get Guaranteed Quality by dealing Direct with us.

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FREE
Nails and
Cement in
Every Roll!

BUILDING PAPER 500 square feet, price 37c
TARRED FELT About 62 pounds to a roll, 90c
price per roll

Over 100,000 Rolls of Roofing—Inspected, Packed and Sealed for Shipment. Nails and Cement Inside

Any Banker in America will tell you we are absolutely responsible. We refer you to the Editor of this paper.

1.25 for 1-Ply Guaranteed Roofing, 108 sq. ft. to the roll (Dealers charge at least \$3.00). Nails, Cement, Instruction Sheet **FREE IN EVERY ROLL!**
Down!

1.50 for 2-Ply Guaranteed Roofing, 108 sq. ft. to the roll (Dealers charge at least \$3.50). Nails, Cement, Instruction Sheet **FREE IN EVERY ROLL!**
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1.80 for 3-Ply Guaranteed Roofing, 108 sq. ft. to the roll (Dealers charge at least \$4.50). Nails, Cement, Instruction Sheet **FREE in Every Roll!**
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HURRY-UP ORDER BLANK

Date _____
GORDON-VAN TINE CO., 1934 Case St., Davenport, Iowa

Please enter my order for the following Roofing, to be shipped from nearest warehouse:

_____ Rolls of 1-Ply Roofing at \$1.25 each. I enclose \$ _____
_____ Rolls of 2-Ply Roofing at \$1.50 each. I enclose \$ _____
_____ Rolls of 3-Ply Roofing at \$1.80 each. I enclose \$ _____

(You can order Building Paper or Tarred Felt in space above)

I enclose (Draft or Money Order) for total amount \$ _____
☐ Immediate Shipment ☐ Hold for Instructions (Put X in proper square)

Also please send the items checked below: Name _____ Town _____

☐ Free Roofing Samples and Book ☐ Grand Free Millwork Catalog ☐ Free Lumber Price List

R.F.D. _____ Shipping Station _____

Mail this to **GORDON-VAN TINE CO.**

1934 Case Street, Davenport, Iowa

Pin the Money to this Order.

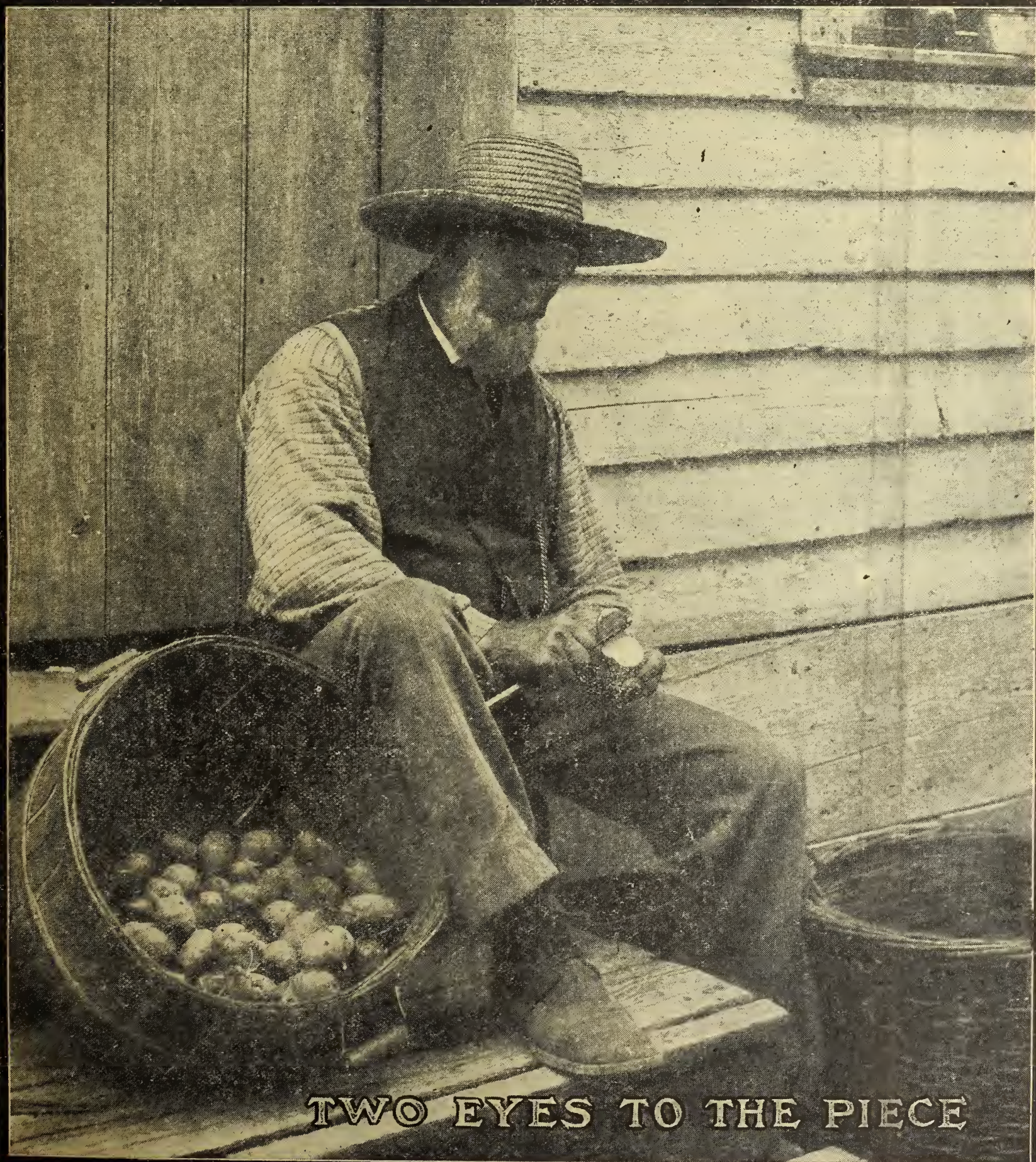
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VOL. LV. NO. 13

DES MOINES, IOWA, MARCH 31, 1910

WHOLE NO. 2738



TWO EYES TO THE PIECE

FISK

Quality

TIRES

YEARs ago, at the beginning of its business, the Fisk Rubber Company laid down a policy which has since been steadfastly adhered to. That policy was to tell the truth about its products.

WE might claim to operate the largest automobile tire manufactory in the world—but we do not. We might maintain that we produce more automobile tires than any other concern—but we do not. We might publish broadcast the fact that the Fisk Removable Rim is used on more cars than any other make—but it is not. We might mislead the public into believing that the temporary and ofttime gratuitous tire equipment on cars at automobile shows is a reflection of a permanent choice—but it is not.

WE Do Claim, and we can prove our statement, to make **The Best** tire on the market today, barring none. We know the Fisk Removable Rim is the safest, quickest and best obtainable, and the only rim which works equally well in muddy and freezing conditions. Years of high-class manufacturing experience, a knowledge of the materials that go into our products, and comparison with the wearing qualities of other makes, are some of the reasons why we know in stating these facts we tell the truth.

FISK Quality Tires are made in four styles—Bolted-on, Clincher, Q. D. Clincher and Dunlop. We have established branches in the principal cities, where the motorist may find at all times a full stock of different sizes and styles and an intelligent repair department in charge of experts.

WE shall be glad to give you the benefit of experience and send you literature if you will but ask for it.

THE FISK RUBBER COMPANY
CHICOPEE FALLS, MASS.

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Springfield	Cleveland	St. Paul
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MISSOURI

PEACH, FRUIT, VEGETABLE FARMS AND GENERAL

"I make the claim, substantiated by facts, that in no place in the whole United States can a man make a more comfortable living with less effort nor acquire considerable wealth with a fair effort than in the Southern Missouri Elberta Peach, Fruit and Farming District."

W. W. G. HELM, Vice-Pres. and Gen. Mgr. C. C. L. & F. Co.

MISSOURI THE PLACE TO MAKE MONEY. Regardless whether you own or rent a farm in Illinois, Iowa, Kansas, Texas or in any other State, or own and cultivate the best irrigated farm in the country, we can show you where a Southern Missouri farm of the same size will beat it, will produce as much, or more to the acre, or show you figures that will amaze you.

WE CAN PROVE LARGE PROFITS IN PEACHES

The demand for Elberta peaches is beyond the supply and always will be, as the territory adapted to the growing of this luscious fruit is so limited that, if every acre available were bearing to its fullest capacity, there would still be a shortage.

\$175.00 to \$700.00 per Acre for 13 Years. J. D. Wilkinson says: "I have been engaged in raising fruit in this district for 13 years and have to say that peaches run from \$175.00 to \$700.00 per acre."

\$150.00 per Acre—Crop Failures Unknown. L. A. Goodman, Ex-Sec. Mo. Horticultural Soc., says: "Southern Missouri is the home of the small orchardist. The peach belt of America is on the south slope of the Ozarks. Good varieties easily pay \$150.00 per acre profit every year and crop failures unknown."

Tracts of twenty to forty acres set to peaches will, when trees are matured, net a profit from \$1600.00 a year on twenty acres to \$3500.00 a year on forty acres.

WE CAN PROVE LARGE PROFITS IN OTHER FRUITS

One of the strong features of our land in Carter County, Southern Missouri, is the wide range of crops that can be produced. A man can raise the finest varieties of fruits on part of our land and on another the highest quality vegetables, grains and grasses.

Grapes pay \$250.00 per Acre. Herman Wisch says: "I have lived in the Southern Missouri district for over twenty years. I own eight acres of vineyard which I would not sell for \$1000.00 an acre. My vineyard pays me over \$250.00 per acre every year. I also own ten acres unimproved land adjoining, which I would not sell for \$300.00 per acre."

Adam Smith, of Neosho, from one and one-third acres, sold berries that brought him \$960.00.

\$10⁰⁰-AN ACRE

WE CAN PROVE BIG PROFITS IN GENERAL FARMING

If you want a good farm, to do big things in a big way and on a quality of land that will grow crops remarkable for productiveness, we have it. The only cheap thing about our land is the price of \$10 an acre. Our land will grow the best specimens of corn, wheat, oats, rye, millet, kafir corn, speltz, sorghum, timothy, clover, cowpeas; Hungarian hay, bluestem grass, alfalfa, peas, beans, Irish and sweet potatoes, beets, cabbage, tomatoes, cauliflower, sweetcorn, and many other vegetables, grain and grasses.

Our land will grow these and many other varieties, and grow them better, far better, than some land in Illinois, Iowa, Kansas, Oklahoma, Ohio, Texas.

We Can Prove All Our Statements.

As a proof of what our land will do the first year it is broken and put to corn, please read the following: G. T. Lee, Van Buren, says:

"I do not believe your tract is surpassed anywhere in Missouri for grasses, small grain, orchard and truck gardening. We have just opened this year a small tract planted to corn that will run 50 bushels to the acre."

\$120 per Cow per year. G. F. Holloway says: "I moved here from Iowa. I find this country best for farming and far best for dairying. My cows averaged me \$10.00 a month last year."

\$200.00 an Acre from Cabbage. Wm. Griffin says: "My cabbage made me \$200.00 an acre."

\$560.00 an Acre for Tomatoes. F. W. Paulsell says:

TERMS

without interest or taxes. One single crop of fruits, vegetables, grains or many grasses will pay for your land times over.

Carter County Land and Fruit Co.

Desk 2 VAN BUREN, MISSOURI

Free Book



Write Today
A Postal Will Do

"I had one-eighth acre of early tomatoes which brought \$70 (or \$560 an acre), and my late ones will bring about \$60."

5 Tons Alfalfa to the Acre. H. P. Sherwine says: "I have averaged 4 to 5 tons alfalfa to the acre from a five-acre tract for the past five years."

Governor Hadley says our district is the finest in the world for dairying. Many grasses will feed one steer to the acre. Hogs range for twelve months in the year. Sows farrow in the open nearly the entire year because of the mild climate; you do not have to feed stock over 3 months at the outside.

Write for our free book. It gives you facts and figures about the growth and production of peaches and other fruits, grains, grasses and vegetables that will astonish you.

Our terms are the most liberal ever offered by any honest company—you can buy from 20 acres to 640 acres on many years time

EASY TERMS

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MARCH 31, 1910.

BREEDING DAIRY CATTLE

THERE are three essentials that we must bear in mind when we seek to breed dairy cattle of the highest class. They are: First, the qualities that make a desirable animal; second, profitable production; third, reproductive ability. I shall consider them in the order named.

The qualities that make a desirable one are usually expressed by the term, constitution. Webster defines constitution as "That form of being, or peculiar structure and connection of parts that makes or characterizes a system or body." If breeders meant this definition when they use the term constitution it would answer admirably. As used by breeders, constitution indicates strength and the ability of an animal to maintain its general health and vigor and its productive and reproductive powers unimpaired to a good old age. The score card points allotted to constitution are merely those indicative of physical health and strength. Thus it would seem that the qualities that make a desirable animal is a term that expresses my meaning more clearly.

I shall not attempt to describe the typical form of the dairy cow, but the man seeking to become a breeder must always study the animals about him and fix in his mind the essential points until he is able to analyze an animal at a glance.

Until he has a definite and desirable type in his mind and selects his cattle to conform to it he will not produce uniformly good cattle. It is far easier to get good prices for well-formed, attractive cattle and form is the only visible indication of performance.

Wherever you find a man selecting breeding and caring for his cattle intelligently you will find a herd returning a large profit. But when you find a man that is indifferent to these things you will find a herd that returns, at the best, a very small profit.

The great secret is in the individual cows of the herd. In every herd there is an enormous variation in the production and profit of the different cows. There is only one way to secure the highest profit from your herd and that is to know what each cow is doing and to keep the best.

The cow-testing associations furnish the best way of doing this work. The breeders of pure-bred dairy cattle are missing great opportunities where they fail to do everything possible to organize such associations in their own neighborhoods.

If you desire to build up a permanent herd and to receive enduring benefit from your work of testing and selecting you must seek for reproductive ability.

Hitherto I have said nothing about the relative merits of scrub, grade and pure-bred animals. While the scrub cow may have productive

By John Clark

ability and be a fairly desirable individual, there is little chance that she has within herself the power of producing offspring with her good qualities, unless she is mated with a bull capable of transmitting those same qualities. Mated with a bull of her own class, her merits will be great indeed if she can impress them upon her offspring.

Among grade cows of the established dairy breeds desirable individuals and profitable producers are the rule rather than the exception and when mated with purely bred bulls of their respective breeds these qualities are usually reproduced. Mated with grade bulls like themselves the tendency of hybrid matings to revert will produce a mixed offspring, some good and some bad.

In pure-bred herds we expect to find the desirable qualities and productive ability reproduced with certainty. You may conclude from what I have said regarding the comparative reproductive abilities of scrub, grade and pure-bred that the pure-bred is always a desirable animal.

A pure-bred animal should be pure, not only in the sense of being eligible to registry, but purely bred because it is free from the blood of unproductive ancestors.

In testing a pure-bred herd we will find about as wide a variation as in any other herd, but in good herds it varies around a far higher average.

We will also sometimes find that the daughters and granddaughters of some certain animal will group themselves together and whole families will be found whose production is uniform and far above the rest of the herd. When

a breeder finds a family of this sort he should devote his energies to developing it, for he has a firm foundation upon which to build. Such families are the real source of all improvement in breeding.

The great cow that springs from an ordinary ancestry and whose descendants fail to inherit her greatness is a damage to any breed, because breeders will pay high prices for her sons only to learn after expensive trial that she did not possess reproductive ability.

What I particularly wish to impress upon you is that; first, you must have a clear conception of the best types of the breed. Then that you must test them to learn their productive ability. Finally, that you must always seek in your own herd for high-producing cows of superior type whose daughters are uniformly superior in type and performance.

There is no lack of good material to work on, but there is a lack of the patience and perseverance that it takes to wait for a family to develop.

Many writers in the agricultural press are fond of referring in a mysterious way to the secrets of the great breeders, "how they mold the animal form to their will," etc. These writers rarely make a sensible attempt to go behind the veil that guards this holy of holies and create an impression that the successful breeder has in some way obtained an uncanny knowledge that is beyond the ken of ordinary mortals. Some of the old-time breeders encouraged this belief and it has grown until it is surprising how many sensible people believe it.

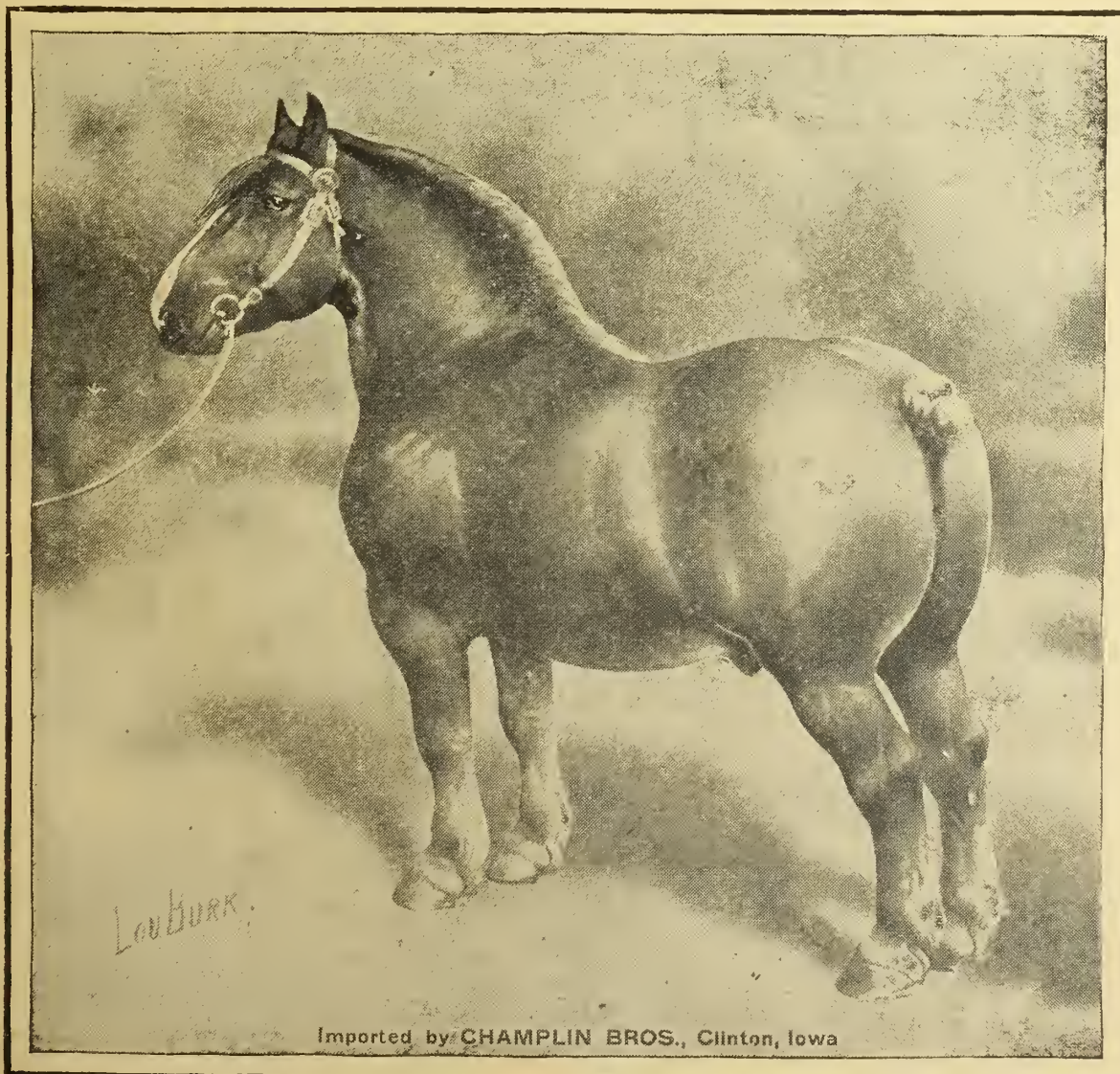
As a matter of fact, I do not believe that any breeder that ever lived had any mysterious secrets about breeding that were worth knowing or ever succeeded in any other manner

than by knowing just the sort of animals that he wished to produce and by breeding to the strains that would produce them. Do not think that I wish to belittle the great breeder of an early day or that I undervalue the work that they performed. There is no question but that some of them attained a really marvelous knowledge of animal form and that they established strains whose reproductive ability was wonderful. We have little record of their work, but the thing that has impressed most people is that practically all of them practiced inbreeding.

From this the belief has grown that it was the greatest factor in their work. We must remember that they had but a limited amount of material from which to choose breeding animals.

They knew the value of reproductive ability and that a strong outcross of unsuitable blood would shatter the results of their labors.

(Continued on page 6.)



Imported by CHAMPLIN BROS., Clinton, Iowa

A PRIZE-WINNING BELGIAN STALLION.

Any admirer of excellent proportions and true draft-horse development must appreciate the merits of the splendid Belgian stallion above illustrated. This particular animal has been a prize winner at great shows. He and others of like quality are for sale by Messrs. Champlin Bros., Clinton, Iowa. Their advertisement appears on page 45.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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FOURTH ANNUAL CORN EXPOSITION.

Announcement has recently been made by the executive committee of the National Corn Association, to the effect that the fourth annual exposition will be held at Columbus, Ohio, from January 30 to February 11, 1911.

The purpose of the exposition is strictly educational. In the beginning it was largely confined to the exhibits of corn, but the demand for a great agricultural exposition, embracing all kinds of grains and grasses, as well as practical demonstrations of up-to-date methods, based on the experiments of agricultural colleges and experiment stations, has greatly enlarged the scope.

At the last exposition, which was held in Omaha, twenty-three state agricultural colleges and experiment stations took part, each one presenting some special feature of their most advanced experimental work, in such a manner, that the visitors received valuable and practical lessons therefrom. The indications are that twenty-eight or thirty will take an active part in making the Columbus exposition a success.

At least six or seven of the splendid brick buildings at the Ohio state fair grounds will be required to house the features of the exposition, two for exhibits, one for lectures, band concerts, etc., one for machinery, and one of the largest for high-class amusements.

The brainiest men of the nation will discuss questions of economic importance. Several small lecture rooms will be provided for the informal discussion of problems pertaining to agriculture.

Every man, woman and child in the United States should be interested in this movement.

MIXING VARIETIES OF GRAIN.

It is a well-established fact that two varieties of grain if seeded together will produce a larger yield per acre than will one variety. In other words, three bushels of seed, composed of one and one-half bushels of wheat, for example, and the same amount of oats, will produce a larger crop than will three bushels of wheat sown alone, or the same amount of oats seeded alone. This has been ascertained at some of the experiment stations, and it has also been demonstrated by scores of farmers of our acquaintance. Nor is it difficult to understand why this should be the case, because each crop has its own peculiar way of taking plant food from the soil, and as a matter of fact, no two crops attack the same fertility substances in the same way.

Of course, promiscuous mixing of grain is not advised, because some care is needed in selecting varieties that mature practically at the same time. If oats and barley are mixed together an early oat must be used, because barley is a short season crop, and if it should be seeded with a late oat, the chances are that a considerable part of the barley would shell off and be lost before the oats are ready to cut. Where spring wheat and oats are mixed together a fairly late oat

ought to be used, because most varieties of spring wheat mature about the same time as our late oats. Sometimes wheat, oats and barley are seeded together, and as a rule, it makes a heavy yielding mixture, but as said before, there is some danger of having the barley or at least a part of it lost before the other crops are ready to cut.

The mixing of grain in this way is only advised where all the grain mixed is to be fed, because if it is to be marketed it is a difficult task to separate the grain on the farm, while if they are marketed in mixed form they do not bring their full market value.

Where wheat and oats are seeded together for feed to be used on the farm, it is generally advisable to sow considerable more oats than wheat, a good mixture being eight pecks of oats and two pecks of wheat per acre. From this mixture one will get practically as large a yield of oats as if no wheat whatever were sown, so that the amount of wheat produced is just that much gain in the amount of feed obtained from an acre.

A PRACTICAL ROAD ROLLER.

The substitution of wide-tire for narrow-tire wagons is not taking place very rapidly anywhere in the great central West. For some reason or other many farmers are prejudiced against the wide tire, believing as they do that when roads are very soft, the wide tire furrows them much worse than a narrow tire. On the other hand nearly every man who has had experience in making good earth roads, strongly favors the general introduction of the wide-tired wagon. Mr. W. F. Baker, of Pottawattamie county, Iowa, has made his name known throughout the entire central West by what he has done in the way of improving the roads of that county. Colonel Baker has recently prepared for the press a short description of a practical road roller. Referring to the grading and packing of an earth road, Colonel Baker says:

It is absolutely essential for all public highways to have a firm, solidified dirt foundation, no matter what the top structure may be.

On dry land a road can be brought to a crown by loosening the dirt upon the sides of the road with a disk harrow cultivator or plow, as the condition requires, and then when in condition pack well bring from the sides with a road drag dirt and distribute over the surface of the road, not to exceed two inches at a time, and then thoroughly roll, then again another layer and roll in like manner till the road bed is brought to a nice crown to prevent water standing upon its surface.

The best roller that could be used for this purpose is extremely simple and inexpensive, by using a good, strong farm wagon replace the hind axle with one twelve or sixteen inches longer than the front axle, enabling the hind wheels to track outside the front ones, as is common in Europe; then use wheels with six or eight-inch tires with felleys. Load this wagon with not less than two tons of stone or other commodity and then haul it over the road after each layer of dirt; each trip packing two or two and two-thirds feet in width, and by careful driving six times over you would roll twelve or sixteen feet in width. This would be better than any regular roller in use, as it has greater pressure and finds all soft spots which a roller might straddle. This wagon roller could be handled with two heavy horses, while a regular roller takes four. This wagon roller bed could be easily made so as to turn on its own ground. Try this manner of making a road, as it will cost but little, while the result will astonish you.

We are pleased indeed to present this plan to our readers in the hope that township trustees will adopt it. It comes from a man who is not a road builder in theory, but is one in practice, and any advice he gives on the subject may be depended upon to work out in a most practical way to the lasting benefit of the highway.

THICK OR THIN PLANTING FOR GROWING SEED CORN.

The average man, when he starts out to select his seed corn in the fall, looks for the large ears. Unconsciously he accepts as sound the theory that like begets like, and according to this reasoning, seed from large ears will beget large ears. It frequently happens that a special effort is made to encourage the production of large ears for seed purposes, just as if even one generation of large corn could fix the type.

Now comes the Nebraska Experiment station and points out as the result of several years' work that this

theory is wrong. This station has ascertained that a given variety of corn planted at the rate of one kernel per hill will produce twenty-five ears weighing twelve ounces or more out of every hundred plants. On the other hand, when three kernels are planted, only ten ears out of the 100 plants weighed twelve ounces or over. When the number of kernels is increased to five per hill, only five twelve-ounce ears were produced out of 100 plants. This would indicate that in case of thick planting, the plants that produce a 12-ounce ear must be unusually vigorous ones, while on the other hand, when corn is planted thin it is not possible to say just which plant possesses the natural vigor, as against those where the ears have been forced to large size because of congenial environment.

It was found at the Nebraska station that seed selected from corn planted at the rate of one kernel per hill produced an average of 61.8 bushels per acre for three years, while seed selected from the crop planted at the rate of three kernels per hill produced at the rate of 62.2 bushels per acre, while the best seed selected three years in succession from corn planted at the rate of 5 kernels per ear produced 64.4 bushels per acre. It would seem from these figures that for seed purposes it is preferable to select good corn from the normal field planting, or even from the thicker planting than it is to select the best looking seed from corn that is planted thinly.

Of course the Nebraska station contemplates carrying on this work in the future in order to gain cumulative evidence the one way or the other, but it certainly looks at the present time as if seed ought to be selected from corn planted in the normal way rather than from a crop thinned or planted thinly so that conditions would be specially favorable for the production of large fine-looking seed ears.

TREATMENT OF CORNSTALK GROUND.

There will be millions of acres of cornstalk ground in the central West replanted to corn this spring. This area is altogether too large for an ideal system of agriculture, but that is a matter that cannot be helped at the present time, because we are squarely face to face with the problem of doing the best we can under the circumstances.

We desire to preface what we have to say on this subject by the statement that conditions have a good deal to do with the particular method to be applied. On general principles, however, it may be said that it pays to put some work on the surface of cornstalk ground before plowing down the stalks. We mean by this that it pays to disk the ground at least once, and possibly twice. This will cut up the old dead stalks if these have not previously been raked up and burned, and it will do more—it will create a mulch which, when plowed under, connects the lower soil with the furrow slice, and thereby contributes to the free movement of soluble substances in the soil toward the plant roots. We have known good farmers go so far in this matter as to thoroughly prepare a good seed bed by disking twice and harrowing two or three times before plowing under. This is possibly more than can be expected of the average man who has forty or fifty acres to get ready for each four-horse team that he works.

To those who have always simply plowed the ground, without previously disking it we will say that possibly half the amount of labor will put a seed bed in good shape if the surface has been disked before plowing, so that after all there is some saving there. If the disks go down three or four inches a soil is almost sure to be mellow after plowing, while in many cases a soil that is not disked plows up rather lumpy.

The very best work can be done with a disk by running it diagonally across the field, instead of straight up and down the rows. A given amount of work put on in this way will prepare a better seed bed than the other method, though some object to it on account of turning at one end being very awkward. Of

course, it also takes a little longer because there will be a good many short rows which increases the number of turns to be made.

SMOOTH AND ROUGH SEED CORN.

The work in corn judging and corn showing, as endorsed by practically all the agricultural colleges in the central West, has resulted in creating sentiment in favor of the so-called rough Dent corns in preference to the smooth kind. At no time during the last five years did an entry of smooth corn in any large contest have any chance to win in close competition against the deeper-kerneled, rough corns. The rough types have been favored for the simple reason that roughness is practically always associated with a deep kernel, and the deep-kerneled sorts have been endorsed because of their yielding ability.

It now looks as though the reasoning of many of the leaders in this work has not been sound, because the Ohio station has ascertained that the smooth-dented ears will yield as much and even a little more than the rough types. In 1908 at that station there was less than one bushel difference between the two types of corn, and that year the largest yield was made by the rough type. In 1909, however, the smooth yielded 2.17 bushels per acre more than the rough corn. The seed of the smooth corn used in 1909 was much more shallow in the kernel than the rough type, for the reason that the ears were smaller in circumference, while the percentage of grain in the smooth corn was 80.7 as against 84.2 in the rough corn. However, in spite of this handicap, the smooth out-yielded the rough corn.

The phase of the matter that we would like to call special attention to is that in searching for seed corn this year, better results will be obtained by selecting the smooth seed. We find as a result of our own examination that ears having shallow kernels are showing a much larger percentage of vitality than those having deep kernels. This is not to be wondered at, because the former was much drier at the time of severe frosts last year than the latter. Many a man will hesitate to break his type, especially if he has spent several years in fixing the rough kind. As a matter of fact, however, the thing he is after is bushels per acre, and it looks as though there is not so much difference after all in the yielding ability of the two types of corn. Those who have to go to their cribs or those who have to select corn that was in the field all winter, will save themselves much labor in testing and indeed they will get better corn if they will select the smooth ears instead of the rough ones.

Who was it said, "Shoemaker, stick to your last?" Well, anyhow, this is along that line, says Leslie's Weekly. John R. Overstreet of Franklin county, Indiana, has stuck to growing corn all his life. Some years ago he realized that he was growing the best corn in his state. That was merely a spark to the fuel of his ambition. Why not grow the best corn in the country, in the world? Three or four years ago the National Corn Association was organized. They held the first national corn exposition in Chicago. An Indiana farmer got first prize. Mr. Overstreet waxed wroth. So he studied and worked, improved his seed and planted the best kernels. This year he grew the best ten ears of corn ever raised in the world. The Indiana Corn Growers' Association gave him a \$1,000-silver cup. "Shoemaker, stick to your last!" Mr. Overstreet is a farmer. He says so. He lives a quiet life on his farm, is a man of considerable culture, and will never, he says, exchange his rustic life for the cliff dwelling, money grubbing of urban residence.

What members of the bench and bar have expected as the natural consequence of the increased cost of living has come to pass in Brooklyn. A complicated legal case involving the ownership of one egg is up for adjustment in the Flatbush court. The papers in the case cite, the children of Mrs. Mary Penninger and Mrs. Anna Ganey, playing together in a vacant lot, found a newly-laid egg. Right of possession of the valuable find is claimed by both women.

A BLOW AT THE BANKS.

The labor strike in Philadelphia is not without its valuable economic lesson. For the first time in the history of labor agitation an effort is being made to further the cause of the workingmen by striking a direct blow at stored capital. Men high in the councils of the disaffected laborers have issued a request (which is practically an order) that workingmen not only in Philadelphia but throughout the entire country remove their savings from banks, on the theory that capital is fighting labor by means of labor's own savings kept in the custody of capitalists.

Whether the order will be generally lived up to remains to be seen, but it is highly probable that the common sense and good judgment of the workingmen of the country will show them that it is to their best interest to keep what savings they have accumulated in a place where they are reasonably sure of the best protection. The general prosperity which has prevailed throughout the country for the past ten years has affected the city workingman and has resulted in the establishment of numerous savings accounts, which have grown with the passing years. To remove these accounts from the bank would not only affect the financial market and tend to lessen wages and salaries (and even to cause a flurry which would result in throwing many men out of employment), but it would put these savings in precarious places where they would be at the mercy of thieves and robbers.

The workingman of the city, like the farmer, has found that his money is safest when deposited in a bank. It is contrary to his experience and his better judgment to remove his savings and keep them hidden at home or at his place of business. The labor leaders who advise the move have not been able to see far into the future. Their zeal has caused them to be blind to the financial and economic possibilities of such a short-sighted policy as they suggest.

JUDICIOUS WEED DESTRUCTION

The conditions throughout the great central West last year were peculiar, inasmuch as the rainfall was unduly heavy in the spring and exceedingly light during July and August. As a result, a very large growth of weeds got started early in the season, and later on these weeds worked havoc in pumping the moisture out of the soil so that crops in many cases were cut squarely in two because of a lack of water supply.

We were among the unfortunate ones and our corn crop especially, suffered to some extent. On part of our area we made a mistake, while on the balance we did the very best that could be done under the circumstances. Our mistake, was in not putting more work on our corn ground with a harrow, after planting and before the corn made its appearance above ground. We had one forty-acre field that was harrowed only once after planting, while the balance was harrowed two or three times. The effect of these extra harrowings almost resulted in doubling the crops, because the weeds got a start on the unharrowed land, particularly in the corn hill, and we absolutely could not head them off. We have added a new plank to our platform this year, and that is to practically keep one team on the harrow almost constantly after we get thirty or forty acres of corn planted. We expect to harrow the ground at least three times before the corn comes up after it is planted, and if we mistake not we will have clean corn this year.

Of course, we appreciate the fact that there are difficulties in the way, because sometimes the rainfall comes at such a time as to almost keep you off the land between the time of planting and the period when the plants make their appearance above ground. In that case, of course, one is up against a stiff proposition, and it is doubtful if any theory can be worked out that will keep the weeds in check under those circumstances. These unfavorable conditions, however, do not always prevail, and our own failure to do enough harrowing has been due to the fact that we were very anxious to get the balance of the

crop in. We have decided that if the first part of the corn is planted in good season, one had better let a field or two be planted several days late, and give some attention to the

position of superintendent of several of the sub-stations in that state. Later, he was placed in charge of laboratories in which extensive investigations were made into the character of



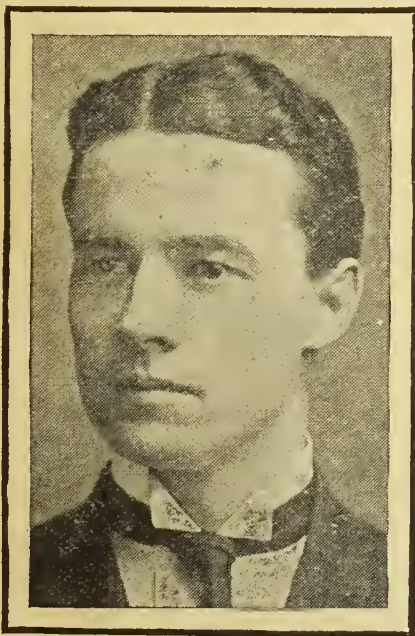
A GROUP OF HANDSOME PERCHERONS.

The engraving above shows four great Percheron stallions owned by Messrs. S. Metz & Sons, of Homewood, Ill. They are right in line with the many other excellent ones now offered for sale by that firm. See their advertisement on page 47.

early planting, because in the end more corn will be raised from the same area and it will certainly be much more satisfactory to work the ground if the weeds are checked, as it were, before they get properly started.

PROFESSOR HUGHES GOES TO IOWA.

The position of professor of farm crops in a state like Iowa ought to carry with it considerable responsibility, because Iowa happens to be the greatest crop-producing state in the union. Such a position calls for a man of the highest attainments and indeed he ought to be the best-posted man on practical agricultural matters in the state. That is what he ought to be



H. D. HUGHES,

Recently appointed professor of farm crops at the Iowa Agricultural College.

logically if his ability coincides with the importance of the situation.

It now falls to the lot of a young man who is not yet forty, to fill this most important position. We refer to the recent appointment made by the board of trustees of Prof. H. D. Hughes, formerly from the farm crops department of the Missouri Agricultural College. The past record of Professor Hughes would seem to justify The Homestead in introducing him to its readers as a man who will stamp his name on the agricultural history of the Hawkeye state. He hails from Illinois originally, where he graduated as a specialist in farm crops from the agricultural department of the university. Before his graduation he was given charge of much practical experimental work in farm crops, occupying as he did the

field crops. During the past two years Professor Hughes has been one of the active men connected with the Missouri institution, and his work under Professor Miller has attracted attention outside the borders of the state. Professor Hughes' special qualification

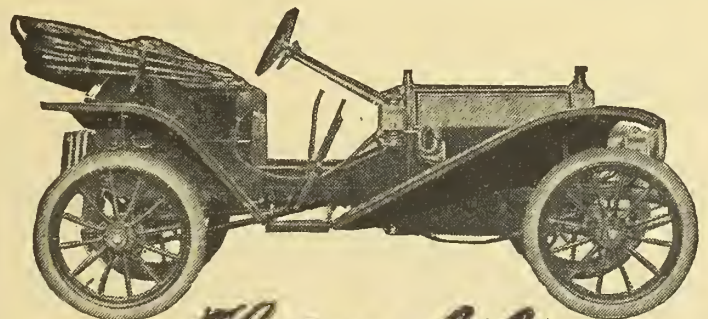
is that he is regarded as one of the most practical men who has ever taken up college and station work, while he is at the same time recognized as a scientist of the first order. We understand that the Missouri Agricultural College made a tremendous effort to hold him, but were unable to do so in face of the inducement offered by Iowa in calling him to the head of this important department.

Professor Hughes will find a splendid field for operation and he will find most favorable conditions under which to work. Some of his predecessors are men who have become exceedingly well known, notably Professors Holden, Bowman and Crossley, and it is the wish of The Homestead that Professor Hughes will take up the work so well started by these men, and carry it to a most successful issue.

FILTH IN THE HOG TROUGH.

There will be millions of little pigs in the central West starting in to make their own way in the world during the next few weeks. Even before weaning time the average pig ought to be handled so that he will become a good eater. He should be encouraged to take his place at the trough just as soon as possible, and it is not too early to expect little pigs to line up for a ration of slop at the age of three or four weeks. This, by the way, is a critical time in the life of a pig because, as a rule, during the spring months there is abundance of mud around the quarters with which to contaminate their grain ration, and this leads us to say that it will pay every swine raiser to take special precaution to keep the swine

Proved By Actual Performance Equal to the Farmer's Every Need



4 Cylinder, 20 H. P., Sliding Gears, Bosch Magneto.

Hupmobile

\$750 F. O. B. DETROIT
Including three oil amps, horn and tools

Throughout the last year—by performance in contests and in owners' use—no car has established so firmly its right to the farmer's consideration as the Hupmobile.

At every turn the Hupmobile—sturdy and staunch—has been found performing literally prodigies of strength and endurance.

It has gone hither and thither over the worst roads in the country; it has successfully negotiated the trackless desert of Arizona; it has climbed the highest peaks of the Adirondacks and Colorado.

But the climax was capped by the successful trip of three Hupmobiles from Detroit to New York through the deepest snows and the bitterest cold of the winter.

They plowed through drifts that overwhelmed the strength of mighty locomotives; for miles they practically broke the road.

The story of this wonderful test has been published and the book will be sent to you on request.

Time after time the Hupmobile has surmounted situations far more difficult than any to be found in ordinary use.

Had Albert Peterson—himself a

farmer—had the Hupmobile in mind, he could not have described it more aptly than in the following, which appeared in a recent issue of the Orange Judd Farmer:

"We farmers are thankful that some of the leading car manufacturers are beginning to appreciate the needs of the farmers, and are busy building suitable cars. What we need is a small car, of good material; one that is light in weight, has plenty of power to carry us over roads that cannot be traveled with heavy cars.

"The large and high-priced cars are a luxury, and not a necessity for the average farmer. Build us a plain car, one that will make the miles with the least expense possible. The lighter the car the lighter the tire expenses, which is our greatest trouble."

The Hupmobile answers Mr. Peterson's appeal in every detail.

Send the coupon today for the Hupmobile catalog and the booklet describing the thousand-mile winter trip.

'Please send me the Hupmobile literature.

Hupp Motor Car Co.,
Desk 13,
Detroit, Mich.

Hupp Motor Car Co.,

Licensed under Selden patent.

Desk 13, Detroit, Michigan.

Name.....

Address.....



Don't Build a Wooden Water Tank

In dry weather the lumber shrinks and cracks. Must be caulked to prevent leaking. In cold weather the water is likely to freeze. In hot weather it gets warmish.

CONCRETE IS VASTLY BETTER

It lasts forever. Heat, cold, wet weather, dry weather—makes no impression upon this granite-like material. Fire can not burn it. Time can not decay it. It equalizes temperature. Keeps water from freezing in winter and from warming up in summer.



You Can Build a Concrete Tank Yourself

If you do not know how we'll be glad to show you—how to mix the cement with sand—how to lay the forms—how to plan the tank—everything you need to know about it. This information is contained in our "Farm Cement News," a free magazine sent to all farmers upon request. It is full of interesting and valuable information about the uses of Cement on the farm. Send us your name and you will receive copies of the "Farm Cement News" regularly. Address nearest office of the company.

UNIVERSAL PORTLAND CEMENT COMPANY

Chicago — Pittsburg
Northwestern Office, Minneapolis

Annual Output, 8,000,000 Barrels

troughs from being contaminated with filth. Where a good, dry feeding floor is not available, then a trough should be designed so that the older hogs will be compelled to eat without putting their feet in the trough.

Any ordinary hog trough with a plank placed on edge lengthwise, just above the center of the trough, and held in place by end pieces, will answer the purpose reasonably well, though those who are ingeniously inclined may carry the matter farther and make partitions in the trough eight or ten inches apart, so that the mature hogs will have to stand right in their place at mealtime. We believe that many cases of thumps could be traced to digestive troubles which originated by little pigs consuming large quantities of filth, and every man knows that a thumpy pig is just about as profitable a piece of furniture if he is knocked on the head there and then, as if he tried to save him. It is almost an even break whether they are worth bothering with or not.

TREATING OATS FOR SMUT.

No expert knowledge is required to treat seed grain for smut, and wherever the crop was infected with smut last year and seed from the same is to be used this spring it will pay, and pay well, to treat it.

Formalin is possibly our best smut remedy. It is a 40 per cent solution of formaldehyde and is known at the drug stores as such. It is not expensive, and a quart will treat forty bushels. It should be mixed with water in the proportion of one pound of formalin to forty gallons of water. Spread the grain out on a close floor, then apply the water-formalin mixture, keeping the grain stirred as it is being applied. This is simply for the purpose of insuring a uniform wetting of all the grain. It may be necessary to turn the grain over three or four times while the liquid is being added. After this, shovel the grain into a steep pile and leave it there for a few hours. If it is treated in the evening it may be left until morning or if it is treated in the morning it may be left until evening. We would not advise allowing the grain to remain say longer than eight or ten hours, after which it should be shoveled over so as to encourage rapid drying out.

Sometimes the damp grain is seeded directly, but as a rule it does not feed through a drill or broadcast seeder quite so well as dry grain, and for that reason we like the idea of shoveling it over frequently and getting it dried out before sowing.

Oats treated with formalin is not poisonous, so that if one should happen to have a little left over, no harm will result if it is fed to farm animals, though it is advisable to mix it with untreated grain in order to remove any possible chance of injury.

HARROWING THE FRESH SOIL.

Horses have been so high in price this spring that the great majority of farmers are going to put in their crop with as little horse power as possible. Such inquiry as we have made on this subject leads us to the conclusion that where the farming was done with four horses last year, it is being done with three this year, and where six were utilized last year an attempt is being made to go through with five. This ratio will hold in the great majority of cases no matter how large the particular farm may be.

In view of this general situation, it behooves every one of us to settle down to the right way of doing things, and especially to practice economy of horse labor wherever this can be done. In our opinion the one place of all others where economy may be practiced is that in pulverizing the soil before it has time to get hard after plowing. This applies particularly on the clay soils and on clay loams where land sometimes plows up a little lumpy.

We have always practiced the method of harrowing the land plowed each day before unhitching at night, and we believe that by this method we have saved anywhere from 10 to 25 per cent of our horse labor in a single season. We note with a very great deal of satisfaction that manufacturers are bringing this matter of labor saving up to date by placing on the market

an attachment for riding plows, so that plowing and harrowing are performed in the one operation. We cannot see why that it is not an ideal combination. Indeed, we know from practical experience that the idea is an excellent one because we have many times in the past used a sort of a make-shift harrow in connection with our sulky plow, this being done to avoid the necessity of putting our horses onto the harrow before unhitching at night, because our experience is that harrowing immediately after the plow is the hardest work that a horse has to do during the whole year.

We are not holding out for any special way to harrow the ground, but rather for the principle of harrowing it while it is in a fresh condition, so that a given amount of labor will accomplish the greatest degree of pulverization.

BOYS' AND GIRLS' CONTEST.

The Extension Department of the Iowa State College conducted a contest in growing corn last year, in which were entered 600 boys and girls. The sum of \$5,000 in premiums was paid at the junior corn show and judging contest held at the Iowa Agricultural College in January.

Now comes the announcement that the contest this year will include:

A corn-growing contest.
An oats-growing contest.
Sewing and cooking contests.
A garden and potato-growing contest.

Any boy or girl between ten and eighteen years of age may enter this contest. The following circulars have been prepared and will be sent to all those who desire to enter these contests:

"The Germination Test."
"Preparing the Seed Corn to Plant."
"Cultivation."
"Weed and Insect Pests of Corn."
"June Count of Stand and Field Notes."
"The Corn Plant."
"September Count of Stand."
"Harvesting and Storing Seed Corn."
"Selecting the Show Sample."
"Premium list of the Annual Junior Contests."

The Homestead gives its strongest endorsement to this work, because it is designed to get the boys and girls of Iowa interested in those things which will constitute their life work later on. Those who desire to find out more about this contest should write Prof. A. V. Storm, Ames, Iowa.

BREEDING DAIRY CATTLE.

(Continued from page 3.)

Thus in order to retain this reproductive ability they mated close relatives together; many of their later followers, ignorant of the real principle that governed them, mistook the method for the principle.

Chas. Darwin probably studied inbreeding more closely than any other man. He decided that while cattle were not particularly susceptible to the evil effects of inbreeding, that when close and long continued it resulted in a loss of vigor and fertility.

It is probably a good plan for a breeder of experience to experiment carefully with inbreeding; whether it is advisable in any case can only be determined by trial.

In all the dairy breeds there are many families combining all the three essentials in a high degree of perfection; we should look to these families for our bulls and labor to produce the right sort of females from our own herds to mate with them.—[Before Wisconsin Dairymen's Convention, February, 1910.]

From the files of The Homestead we learn that in 1864 Mr. Wm. Golden, of Adel, Iowa, drove seven head of hogs to Des Moines and got \$3.86 per hundred for them. They were nearly two years old and the seven weighed 2,650 pounds. From the same source comes the information that during the winter of 1863 and '64 some 13,200 head of hogs were packed at Dubuque. They weighed 229 pounds each and yielded an average of thirty-nine and one-half pounds of lard each.

There are many things which we can successfully dodge if we keep a sharp lookout for them, but common, everyday trouble generally hits the fellow watching for it right on his frontispiece.

The Modern Farm Horse

CHEAPER—QUICKER—BETTER

THAN HORSES

ALWAYS READY—NEVER TIRED

No wasted hours feeding, caring for and harnessing horses. 10 or 15 minutes to oil up and you're off. Eats nothing when idle. The Ideal Power for plowing, discing, seeding, harvesting, threshing, corn planting, shelling, shredding, grinding, road grading, hauling and all kinds of heavy farm work. Hundreds in successful operation.

OIL COOLED—FROST PROOF—DUST PROOF

BUILT IN 3 SIZES

USE GASOLINE, KEROSENE OR ALCOHOL

ASK FOR 48 PAGE ILLUSTRATED CATALOG

HART-PARR CO. 228 LAWLER STREET CHARLES CITY, IOWA

HART PARR
GAS TRACTOR

BETTER THAN PAINT

At One-Tenth The Cost



Taroleum

is the best wood and metal preservative known. It soaks into the wood, keeps out moisture and insects, thereby preventing decay. Especially adapted for painting barns, hog and cattle sheds, poultry houses, corn cribs, etc. It is a perfect germicide. TAROLEUM is an extra good roof paint. It preserves fence posts and shingles. Best for metal and prepared roofings. Only one color, black. If you have wood to paint ask for No. 1. For metal and prepared roofings ask for No. 2, as it has more body and leaves a heavier coat. Either kind can be applied with a brush. Fifty gallons \$7.50 f. o. b. Omaha. Also sold in small quantities. Try it. Satisfaction guaranteed. Write for our booklet which explains why TAROLEUM PRICE is LOW and QUALITY HIGH. OMAHA GAS COMPANY 1836 South 20th St., Omaha, Neb.

Does Your Wife Do This On Wash Days?

If she doesn't, you should have no riding plow, manure spreader, or other modern convenience now regarded as a necessity on the farm. You ought to be ashamed of yourself. Go today and buy her an

Automatic Power Washer With REVERSIBLE WRINGER

This machine is not a hand-power washer with certain attachments added to transform it into a power washer. None of the machinery is fastened to the bottom of the tub, to be drawn out of alignment by warping. The driving belt is on the left side, entirely out of the way. It can be driven by one of the small gasoline engines now so common on the up-to-date farm.

Free Booklet Get our free booklet and learn all about it. Get busy before your wife is compelled to do any of those nerve-racking, disposition-destroying spring or summer washings. One man who bought one of our washers is bragging about his wife taking on some of her girlhood beauty and spirit again. Automatic Electric Washer Company, Newton, Iowa



FARM FURROWS

Turned By a Practical Farmer

Automobiles do some damage to the roads, but for downright meanness, I'll put the four-horse load pulled after a heavy rain against any auto that ever drew a breath of gasoline. It makes me mad to see a man get out with a four-horse load soon after a rain, especially if his hauling could just as well wait.

Spring always finds many renters who are moving to new farms and generally they are better pleased with their new home than they were with the one they just left. The reason for this is that the poor points about the farm do not show up before work begins, after that more of them appear until at the end of the lease another move is due.

Those who have trees that need trimming should do the work before the sap starts. All wounds should be covered with grafting wax or white lead to keep the water out and prevent rotting.

When the season for working in the fields begins we are always surprised at the number of odd jobs that we forgot to do in the winter. Perhaps this is all right after all if we had had much to do besides the regular chores we would not have had time to visit with our neighbors at home nor to go anywhere. "Work while you work, play while you play," is not as foolish as it sounds.

Some dairymen seem to enjoy an unaccountable prejudice against the detective work which can be done by cow-testing associations. I know one man who is either so conceited about his judgment or so suspicious of the possibilities of testing that he sold one of his very best cows for \$32. When asked to join a cow-testing association, and thereby determine whether or not any of his cows were being kept at a loss, he replied: "I do not need any of that monkey business. I guess I can tell what my cows are doing." The man who bought the cow for \$32 would not part with her for several times that amount. He confidently expects her to produce 400 pounds of butter this year.

I have just heard of an exceptionally frugal man. He owed a grocery bill, but when presented with a statement of his account advised the grocer that he could not possibly meet the payment on that date, as he had a still more important demand for his spare cash. He even asked the merchant to loan him \$5 so that he might put it with the \$95 which he had brought to town and thereby being enabled to make an even hundred-dollar deposit at the bank. He always liked to make even money deposits.

The farmers living near one station in Wisconsin have purchased twenty-two car loads of bran during the past winter. This has all been fed to live stock and much of the fertility of that feed will be returned to the soil of the farms of these breeders. We do not look for a report of soil depletion from that locality.

There is one thing upon which I am quite definitely decided, and that is this: There is just as much in feed as in breed. I never yet have seen a really good representative of any breed which has been bred and raised upon the farm of some poor feeder.

One of my friends has discovered a more polite way of telling a man that he lacks backbone. The other day I heard him tell a man that he had a piece of spaghetti where his backbone ought to be, and the man did not get a bit mad.

Two years ago a town in one of the corn-belt states voted to expend, against the chairman's wishes, \$1000 for the improvement of its roads. In that particular county the county board agreed to duplicate any sums

put up by the separate towns for the building of roads. That summer while the road was being built this chairman drove by and, after watching the work for a time, turned to the county highway commissioner and said: "I have changed my mind on this road question. I had 1,000 bushels of potatoes in the cellar last March and was offered ninety-two cents per bushel for them, but I could not even get an empty wagon to town at that time and when the roads did improve sufficiently to permit of hauling, I could get but thirty cents a bushel for them. I lost just \$620 on that deal, or more than my share on the tax to build stone roads all over the entire county. You can't build them fast enough to suit me after this."

Good roads conventions and bad roads generally come at the same time. It is about time for these conventions to begin to bear fruit.

Husking corn in March is a new thing to many of the farmers who are hard at it now. Some of them claim that the corn in the fields this spring is better than what it was husked early last fall, but it is a pretty safe bet that they will do their best to keep from being caught again.

The pessimist's wail, at present, is that when March comes in like a lamb it will go out like a lion. It must be terrible to feel mean all the time except when it is stormy.

We are told that Halley's comet will come so near us this summer that we can put salt on its tail or twist it just as suits our fancy. Anyway we better take a good look at it now because it will be about eighty years before we will have a chance to see it again.

Local stock buyers are paying about ten cents per pound for live hogs and bacon is retailing for about twenty-eight cents. We cannot all be pork packers, but we can read the papers and watch their smoke.

The first bill of nursery stock I bought included a few evergreens. If I remember right it was one hundred. I can remember that the notice that they would be delivered at our station on a certain day was re-

ceived in seeding time and that I fervently wished that the nursery agent and his stock was somewhere south of the Mason and Dixon line. At present these trees and others planted later are from twenty to thirty feet high and the agent is a welcome visitor at any time.

Four rows of evergreen make a perfect windbreak. Scotch pine and Black Hills spruce are both very good, but varieties vary in different localities.

By substituting a letter "f" for the letter "s," a great deal of the poor seed corn would land where it ought to.

Envy often gets one in debt. An auto agent tells me he is selling cars to people who must mortgage their places to buy them, but buy them they will, all because a neighbor has a car. I am glad the streak of envy that runs among farmers is small.

The landlord who cannot get along with his tenant needs a new tenant. Also, the tenant is liable to be thinking that he needs a new landlord.

It is a good idea to take a lot of time when shelling seed corn. This makes it a good job for a wet spell, for time is counted less valuable then. When a man shells during the noon hour what he plants in the afternoon, he naturally hurries more than he should. At the same time, I do not believe in shelling seed corn a long time in advance of its use.

It is a bad idea to commence to gorge the horses on corn as soon as they are put into spring's work. This gets them off their feed, and it is often necessary to lay horses off on this account alone. I like to have at least two different grains to feed at the start. A feed of corn and then a feed of oats, for instance, helps out.

Mapping the week's work out ahead may be a good plan, but one should not get in the habit of stewing if everything on the map is not wiped off by Saturday night. The man who can whistle when storms keep him out of the fields for a week at a time lives longer for having taken it in that way.

Hogs keep on going up so fearfully, that I should not be surprised in the least to awake some morning and see my shoats roosting higher than the chickens. It is no longer the lowly porker.

Once a neighbor started a fire, four miles northwest of me, to burn some

To Fence Buyers

I Want to Send You This Free Book

before you buy a rod of fence. Take my word for it, it will pay you to give me the chance. It's a book about

EMPIRE

All-No.-9 Big Wire Fence

I've had my say about fence in this book and I want you to read it. Most profitable fence in the world to buy, as I'll show you.

THERE'S A NEW THING ABOUT IT

It's now sold delivered to fence-buyers everywhere—not just in certain sections, but everywhere in the U. S. Plainly priced in the book (factory prices) and the factory pays the freight to your railroad station.

Send me a card or letter for book right away. I'm going to send out 45,000 of these books to farmers this fall, but I'll get them out promptly. Address FARMER JONES, Fence Man for

BOND STEEL POST CO.

37 E. Maumee St. Adrian, Mich.

Here's a tool that cuts quickly through the hardest ground, and you can set it to bore nine sizes of holes.

Standard Post-Hole AUGER

—does better and faster work than any similar device, and you cannot afford to be without one if you set posts—plant trees—dig wells—build fences or hore in the earth for any purpose. Get Catalog F.

STANDARD EARTH AUGER CO.
1124-34 Newport Ave., Chicago

IWAN POST HOLE and WELL AUGER

Buys Itself in Two Days

Does a day's work in two hours. Digs a 3-foot hole in any kind of soil, wet or dry, in three minutes. Bites its way through solid clay, hard pan, sand, gravel. If it isn't the best you ever saw, get your money back on request from dealer. With our simple, cheap pipe extensions it's easy to dig 4' to 60' foot wells. Thousands in use. Good dealers everywhere have it. Remember the name, IWAN. Made by Iwan Bros.

See your dealer or write us today, mentioning his name, for free book "Easy Digging," full of tips on digging methods. Dept. 113

(9) IWAN BROS., South Bend, Ind.

BROWN FENCE

For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. Wepay freight

The Brown Fence & Wire Co.,
DEPT. 34 Cleveland, O.

FENCE STRONGEST MADE. Built strong chicken-tight. Sold to the user at Wholesale Prices. We Pay Freight. Catalogue free.

COILED SPRING FENCE CO.,
Box 20 Winchester, Indiana.

Cut away the Waste Wire!

If you could cut away all of the waste material in those numberless wraps, ties and clamps, and pile it upon the scales you'd be astonished to see how much that pile weighed.

Now, do you realize that when you buy a fence with wraps, ties or clamps, you have to pay for every ounce of waste material in those wraps, ties or clamps?

It was all very well to pay for these bunglesome holding devices before the Weld That Held was invented—but now it is an absolute waste of good money. The

"Pittsburgh Perfect" Fence
Is One Solid Piece of Steel Throughout

The wires are electrically welded at every contact point.

There is not an ounce of waste material. The selling price of any other fence made of the same gauge (size) wire as the "Perfect" is greater than the selling price of the "Perfect". In the "Pittsburgh Perfect" Fence the line and stay wires are all of the same size—a feature that adds strength.

Every wire is of open hearth steel, galvanized by our improved process. Open hearth steel is conceded to be much superior to Bessemer—it is tougher and it resists corrosion to a greater degree.

Made in 73 styles for every fence purpose. Your dealer sells it. Write for free catalog.

PITTSBURGH STEEL COMPANY
PITTSBURGH, PA.



trash, and he nearly burned me out. I do not know that he considered the Furrows' establishment trash, but in those days there was much prairie and tumble weeds enough to carry the fire across fireguards. Nowadays, it is harder for fire to get away, but more property to burn in a shorter distance.

It seems good to get out in the field at work again, but long before night, one understands that he is "soft," the same as are the horses. The man who feels for himself ought also to feel for his horses.

I know it pays to use good machine oil and to use plenty of it. Real thin oil is the most expensive because it runs off almost as fast as it can be put on a bearing. I find the brand of oil that really costs me the least money takes sixty cents a gallon to buy it. One gallon goes as far as three gallons of oil I can get for thirty cents, and one is saved the trouble of oiling up every few minutes, besides.

The dark, damp farrowing pen kills more pigs than all the medicine in the world can save. Sunshine is Nature's pig medicine. It will bring a little pig that doesn't "talk" right back to a natural grunt quicker than anything else.

It isn't a good plan to add a little to each end of the day, but when any stretching out is done I want it to be in the morning. This thing of commencing the day's work in the middle of the forenoon, then stringing it out into the night, is not my wish. If a team is in the field after six at night on this farm, it is because special work demands it, like finishing up a job before a storm.

Farmers' notes are now the bankers' choice. A banker told me the other day that if it were possible for them to deal with farmers and farmers only, he would consider his bank that much stronger. "I loan to the farmers as long as there are farmers to borrow," he said, "and then do the best I can with the money we have left to loan by placing it elsewhere." The modern farmer is a mighty solid individual at the bank.

The corn acreage promises to be "the largest ever" this year. This is sure, if the yield is normal, to make grain for the feed lots. By fall, I am thinking, it will not be the grain that will worry the farmer, but the steers and the shoats to eat it. A litter of

pigs is worth sitting up with, if the weather requires it for a night or two.

Do not despise gumbo. I have known gumbo soil a good share of my life, and have seen it come up with more good crops after years of abusive grain croppings than should be expected of any soil. It is a little hard to work, I know, but if it takes strength, it also has the strength.

Green grass over the fence is beginning to look good to the cattle that have been on dry feed so long. Eating the dry stuff will come harder every day.

The party telephone line often increases the enmity between folks who should be neighbors, thus proving the truth of the saying that there is a grain of bad in all good things.

The man who tries to farm a large acreage gets along fine and dandy as long as the weather favors him, but when it turns wet then things begin to pile up. It is then he usually uses up the profits by working some land too wet.

The steady cold and hard freezes of December, January and the greater part of February were anything but nice, and much corn remained to be husked in March as a consequence, but it has been some years since I have seen the soil work up nicer. It is surprisingly loose and mellow, but I am told this has been the undoing of much of the winter wheat.

The standard price paid hired help is now \$25 to \$30 a month. Not so many years ago good help could be secured for \$15 a month. It costs something to run a force of hired help now, and prices of everything sold off the farm must be high in order to meet the drain.

Always, when we are needing rain, it can remain cloudy for three days and not a sprinkle. When I go to town for a load, and the fields are still too wet for doing good work, a cloud no bigger than the lean to of a claim shanty lets out an inch of rain. The weather always seems against all of us, probably because we do not appreciate it enough when we are suited.

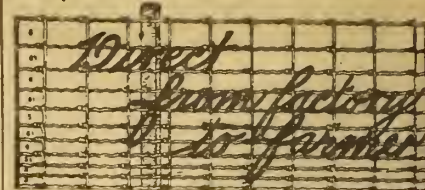
A good way to keep from dreading a tough job is to go straight and do it. Dreading is worse than doing, any time.

is doing as much for the public as is Mr. Pinchot.

CHARLES W. FAIRBANKS, former vice-president of the United States, has returned to America, after a trip around the world, and brings with him assurances of international peace. "President Roosevelt's administration," declares Mr. Fairbanks, "greatly strengthened the ties of good neighborhood between us and other powers, and President Taft is understood abroad as in favor of a policy of international peace. There is, therefore, no evidence of any lurking fear of our absolute good faith, and so long as that prevails there is no danger of serious collision between the United States and any other nation." Mr. Fairbanks spent some time in Japan and his statement sets at rest the rumors of unfriendliness between this country and the Mikado's empire, Hobson to the contrary notwithstanding. There has been a great deal of Japanese war talk in America in the last two years, but most of it has been incited by agitators and by newspaper space-fillers.

COMMANDER PEARY met with a decided frost in his southern lecture tour. Arrived at Atlanta, Ga., he expected to be introduced to a large audience by Governor Brown, but the governor absolutely refused to attend the meeting, holding that Peary was coming to Atlanta as a private citizen seeking personal

profit, inasmuch as he charged a good fee for admittance to the lecture. The governor contended, moreover, that Peary has not yet proved that he discovered the north pole, and that by charging Dr. Cook with being a fak-



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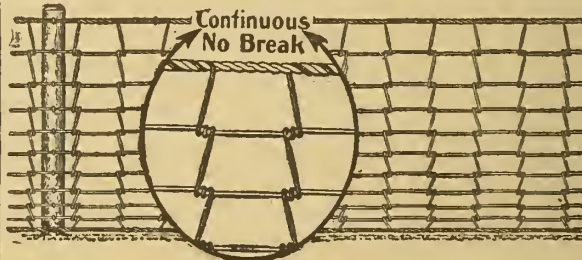
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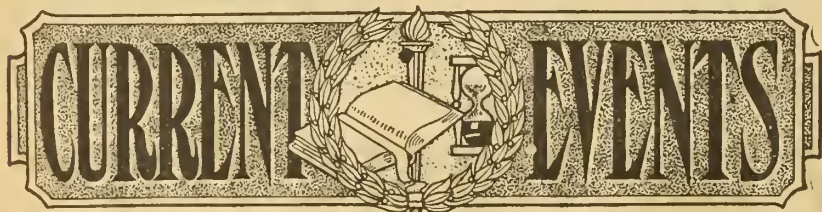
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THE sentiment against "Uncle Joe" Cannon, which has been smoldering in the house of representatives for years, burst into flame during the past week and although Cannon succeeded in retaining his position as speaker his power was cut down by changing the formation of the rules committee and making it impossible for the speaker longer to be a member of this important committee. Representative Norris introduced a resolution increasing the rules committee from five members to ten and making it elective by the house instead of appointive by the chair. His resolution provided that the speaker could not be a member of the committee. Filibustering resulted, both sides making frantic efforts to secure all their supporters for the test vote. In the end, however, the Norris resolution was adopted. Representative Burleson, of Texas, a democrat, then moved that the speakership was vacant, but the insurgent republicans, who had voted with the democrats to remove the power of the speaker, refused to vote to dethrone him and the Burleson motion was lost. The affair is said to have cleared the political situation considerably. The progressive element of the republican party showed its force, but remained loyal to the party in the final test. The stand-patters retain the speakership, so that

it is a drawn victory, with neither side exultant, but both sides fairly well satisfied.

IN THE course of his recent speech in Chicago, President Taft took occasion to declare himself emphatically in favor of conservation of natural resources. He said, "What I want to get in this conservation policy is an act of congress that shall validate all the withdrawals that have been made and shall give me power to make such other withdrawals as ought to be made against consideration by congress of the proper disposition of that land." He declared emphatically that the conservation movement owes its beginning to President Roosevelt, who, he says, "Was inspired to give that wonderful activity of mind and body to this movement by Gifford Pinchot." Inasmuch as President Taft found it necessary to dismiss Mr. Pinchot because of an act of insubordination, his public acknowledgment of the country's debt to Pinchot is evidence of his broadmindedness and freedom from partiality and prejudice. Mr. Pinchot is proving himself as much a factor in bringing about national conservation in private life as he was while a public official, and President Taft is the last man in the world to allow a personal disagreement to hamper the work of any person who

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er he laid himself liable to serious imputation. Commander Peary was greeted by such a miserably small audience that his southern lecture tour was brought to an end immediately. He will deliver a number of lectures in the middle West, but is not meeting with anything like the cordial reception which would have been accorded him had it not been for the unfortunate controversy with Dr. Cook.

THEODORE ROOSEVELT has bidden farewell to his companions of the hunting trip and is now being feted by government officials in the leading cities of Egypt. Colonel Roosevelt expressed considerable emotion at parting with his hunting companions, with whom he had become closely associated. They had endured hardships and braved dangers together and had been drawn closer together than are most men on similar expeditions, due to the fact that on one occasion at least the ex-president saved the lives of several of his party by his daring and cool-headedness. It is expected that the Roosevelt trip through Europe will partake of the nature of a triumphant journey, notwithstanding that Colonel Roosevelt has requested that no undue demonstrations be made in his honor. He will land in America about the middle of June. Colonel Roosevelt's trip down the Nile is taking on all the elements of a triumphant homeward journey of a world conqueror. The ex-president has made himself very popular with all classes in Africa, and although he admits being homesick he cannot but be touched by the warmth of the reception accorded him. The natives vie with the white folks in heaping honors on the big man whose fame has preceded him around the world.

PROFESSOR CHAMBERLAIN, of Brookings, S. D., delivered an address before the Minnesota Conservation Congress in which he told farmers to make cheerful homes for their children by putting in modern conveniences, improving their front yards and by putting a sink in the kitchen for their wives in order to make the farm home more attractive and to hold the children on the farm. Professor Chamberlain declared that he had seen many fine barns and well-kept fields, but the farmer's house was often unpainted and his yard unkempt. Professor Chamberlain took a decided stand in favor of equal suffrage, saying, "I see many farmers here who have good wives at home who are able and do produce more on one acre of land near the house than Mr. Farmer can on three acres in the field. They should be the voters, because they have more brains than their husbands." It is a foregone conclusion that Professor Chamberlain can have anything he wants from the women of Minnesota and South Dakota as a result of his broad statement.

IN THE course of a recent speech, James J. Hill, the noted railroad builder of the Northwest, sounded a note of alarm over what he calls the extravagance of the American people. He asserted that they have inherited from the founders of the United States a wholesome tradition against debt, but added that this is rapidly disappearing from the conduct of national affairs. Continuing, Mr. Hill said: "The national debt now tends to rise, concealed under the polite fiction of certificates of indebtedness to cover treasury deficits. If the advocates of large bond issues for all manner of internal improvements carry their point, if that resource is not definitely restricted to the emergency of war, we will be in the condition of Europe, where the motto of every chancellory now seems to be, 'After us, the deluge.' In our cities modern extravagance finds its most untrammelled expression. The total debt of the states, including all minor civil divisions, increased \$13,921,443, or 1.25 per cent between 1880 and 1890. Between 1890 and 1902 it increased \$727,778,393, or 64 per cent. Nearly three-quarters of a billion in twelve years, an average of \$60,000,000 a year in the amount borrowed by the people, ought to make any country stop and think." Mr.

Hill has delivered a number of speeches recently, in each of which he sounds a note of warning against extravagance, first in the matter of soil and now in the matter of money resulting from the products of the soil. It is his self-imposed task to confront the American people with certain issues and reforms which he believes are vital and imminent.

A REGULAR epidemic of giving seems to be sweeping through the financial East. Andrew Carnegie is still endowing libraries in a most generous manner. John D. Rockefeller seeks to incorporate his immense estates for the benefit of posterity and announces that he will distribute approximately \$1,000,000,000, although what form the bequests will take has not yet been announced. Mrs. Russell Sage is doing her best to distribute what is left of her husband's great fortune. Now comes Mrs. Hetty Greene, who announces that she will donate \$500,000 to establish an art school. Mrs. Greene

has long been considered the most penurious of America's wealthy people. She is said to be so close that she prepares her own meals, makes over her own dresses and walks long distances to save carfare. A great light must have dawned before she opened her heart to the extent of giving a half million dollars to any cause.

THE worst railroad wreck in the grain belt in recent years occurred in Iowa a few days ago, resulting in the death of forty-nine persons and the injury of as many more. The wreck seems to have been the result of bad management in that the train which suffered most severely was running backward a longer time and distance than is customary. The wreck is simply evidence once more that safety appliances do not suffice to remove danger. Train men, from the highest officials down to the humblest track walkers, must feel their personal responsibility and supplement the work of safety appliances by

brains tested and ready for any emergency.

HENRY ZEIGENHEIM, who died in St. Louis last week, was a good type of the old-style politician who was in office for what the office would bring him in the way of spoils. It is related that when Zeigenheim was mayor of St. Louis the question of street lights came up for settlement and Zeigenheim inquired what was the use of the city paying large sums of money to light the streets, pertinently remarking, "We got a moon yet, ain't it?" Had Zeigenheim lived to be as old as Methuselah he would never have been able to live down this story. It is simply in line with the general actions of the man, who was typical of the old-style politicians. It is one of the most gratifying signs of the times that men like Zeigenheim are passing out of power and that the political situation is being dominated by younger, cleaner and more progressive men.

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A Special Corn-Instruction Train

FIVE thousand farmers along the line of the Burlington railroad in southern Iowa heard the gospel of tested seed corn preached last week by a quintet of agricultural experts associated with the Iowa State Agricultural College. That they needed just such a doctrine preached in just such forcible, convincing manner was evident at every town where the special seed-corn train stopped and where germination tests were made. At the first stop, Glenwood, twenty-one lots of twenty ears each were submitted by farmers for testing. One lot was found to be absolutely zero so far as fertility percentage is concerned. The average of the twenty-one lots, or 410 ears, was only 28 per cent strong. But two of the lots showed a vitality percentage above 50, while only eight tested above 33½ per cent strong. As the special train proceeded eastward the tests became still more discouraging, so that the problem of where Iowa farmers are to secure the million bushels and more of seed corn necessary to plant the 9,000,000 acres annually devoted to this most important crop is a serious one.

The situation throughout Iowa this year is more serious than it has been for many years. The state was visited by a killing frost early last October and the seed corn was not gathered in time to prevent the frost doing its deadly work. The agricultural college experts have for months realized that the 1910 situation calls for rigorous remedy. During the annual short course at Ames all of the 786 samples of corn entered for prizes were tested for vitality. These samples represented the very best seed of the state and were much above the average. The following table shows the result of the test:

Section of State.	Per Cent. Bad.	Per Cent. Weak.	Per Cent. Strong.
Northern	27	12	61
North Central	18	14	68
South Central	21	16	63
Southern	14	15	71
Average of State	20	14	66

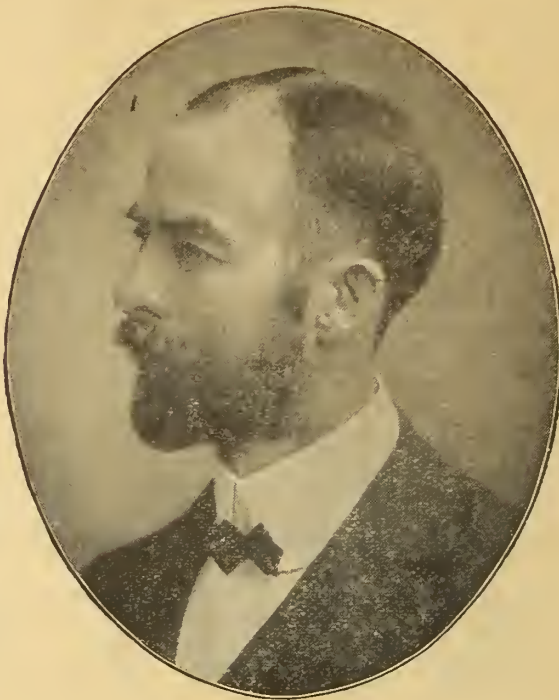
While some of the samples were very good, many others were worthless for seed. The average seed for the state is undoubtedly much below that sent to Ames to compete for prizes.

With the knowledge of this condition the agricultural college authorities set about to do what they could to remedy the situation. It was early decided that if the farmers all over the state could be brought to realize that the situation was serious they would see that it was money in their pockets to test and grade their seed corn. In this crisis the officials of the Burlington railroad expressed a desire to cooperate with the college men and arrangements were made for a special seed corn train to run over 300 miles of the Burlington route, visiting thirteen towns. The train was furnished free of charge and was equipped for the comfort of the lecturers. A baggage car was carried, in which were kept the corn shellers, graders, planters and other model machinery carried along to illustrate the demonstrations.

The staff of lecturers who gave the talks and made the demonstrations comprised the following: Prof. P. G. Holden, head of the agronomy department at the Iowa State College; Prof. M. L. Bowman, secretary of the Iowa State Corn Growers' Association and former head of the farm crops department of the state agricultural college; Prof. B. W. Crossley, formerly associate professor of farm crops at Ames; and Prof. M. L. Moshier, Prof. H. H. Snyder and Prof. J. R. Lauderdale, all of the extension department of the Iowa State College of Agriculture. The party was accompanied by John Ledgerwood, of Leon, a member of the state board of agriculture, and by the following officials of the Burlington railroad: E. R. Puffer, of Chicago, general freight agent; W. G. Wagner, of Burlington, division freight agent, and E. H. Hunter, of Des Moines, special representative.

At every town where a stop was made the importance of testing the seed corn every year, and this year in particular, was pointed out. Prof. M. L. Bowman delivered the warning lecture at most of the towns and in no uncertain words urged and pleaded with the farmers to adopt this important way of knowing beforehand whether the year's corn crop is going to be a failure or a success. Here is the message as Professor Bowman delivered it time after time:

"There never was a time in the history of Iowa when the seed corn proposition was so serious as it is this spring. When conditions for seed have been much more favorable have you ever stopped and fully considered just how little corn to the acre we have been producing in this state, one year with another? Just for example, forty bushels to the acre is more than the average yield of the state, yet have you fully realized the fact that forty bushels to the acre is just one nubbin to the hill weighing twelve and one-half ounces, that is one ear of corn to every three and one-half feet. How much corn do we plant per hill? Three kernels. If then we are dropping three kernels to the hill and receiving in return but one small ear of twelve and one-half ounces, what becomes of the other two kernels?"



P. G. HOLDEN.

"Of course, there are various conditions that will enter in; possibly the cut worm or the wire worm or the grub worm damages, etc. But you will agree with me, I am sure, that more than anything else poor seed corn is responsible for a poor yield of corn. I do not blame this land of yours and I know you do not blame it, when it is selling and is worth from \$125 to \$200 an acre. Is it not strong enough to produce at least one-half ear more to the hill than this small one which I hold before you, weighing twelve and one-half ounces? Yes, of course, it is. Then let us all see to it that we eliminate the cause which has been so materially affecting the annual returns of these Iowa farms.

"Every man tests his seed corn. Did you ever stop to think that? Of course, we do not all test it alike, but just as sure as we are alive every ear of corn we use for seed has its germination box. Just let me ask you this question: Do you know of anybody in your locality who ever used an eighty or a 100-acre field for a germination box? Did you ever know of anyone in your locality who thus had all the way from \$8,000 to \$10,000 invested in a germination box when he could have made one for himself for fifty cents or bought the best one on the market for a few dollars? I see some smiles in the audience. If you don't stop that smiling I'll begin to think you are



M. L. BOWMAN.

guilty. Well, now, as a matter of fact, I guess we have all been guilty and in that connection we'll have to admit that we have all used a germination box and that if we have not tested our seed corn before we put it in the ground for seed we certainly have tested it when it came time to fill our cribs in the fall. Every man uses some kind of a germination box, every man tests his seed corn; the question is how will each one of you men here test your seed corn this spring?"

"It is a serious matter to use a poor ear of seed corn. Just to think that twelve ears of corn will plant an acre, that every ear of poor seed corn the farmer uses costs him from four to five bushels of corn. It is not a proposition of putting more acres into corn, but what does concern us is securing more bushels from the 9,000,000 acres annually devoted to corn in Iowa. And let me tell you that if the farmers of Iowa, instead of putting in 9,000,000 acres to corn this year were to put in only three-fourths that many acres to corn and give the same time and attention to this smaller area that they have devoted to the 9,000,000 acres we would be receiving a greater total yield throughout the state and at the same time would have one-fourth of the land left for clover and other crops. As a matter of fact, previous to the last four years the corn average for Iowa for a ten-year period was about thirty-two and one-half bushels to the acre. Corn is our great labor crop and when we plant seed that fails to produce we not only lose the use of our land, but in addition we lose the labor which it has taken us to care for the corn.

"I wonder if any of you can explain the real reason of the difference in these two stalks of corn that I show you. They were taken from the same hill, they grew side by side, they were planted at the same time, they had the same soil, the same sunshine, the same everything so far as care was concerned and yet one is a strong, vigorous, productive stalk and the other is a little, insignificant weakling which has fooled around all summer doing nothing. I had a good farmer friend of mine one day offer me some reasons for this difference. He said that his corn always grew and so while we were walking in the field one day we came to a hill which had a large, strong, vigorous stalk and right beside it in the same hill was a little fellow such as I hold before you. I pulled the hill up and asked how he accounted for the contrast. 'Well,' he said, 'my corn always grows, but I guess in this case probably one kernel was planted a little bit deeper than the other.' I knew it was best not to cross him outright and so I said, 'Possibly that is so, but you planted them with the same corn planter, didn't you, you dropped the two kernels at the same time on the same day?' 'Oh, yes,' he said, 'yes.' 'Well, now,' I went on, 'do you think that under these conditions there would be very much difference in the depth of the two kernels?' 'Well, no,' he said, 'I guess that is right, but this was a cold spring, you remember, very backward; possibly that had something to do with it.' Then I suggested that both stalks were out in the same spring. 'Yes, that's right,' he said, 'but some way that big fellow got a start on the little one.' 'That it was very true,' I said to him, 'but please tell me why it was that the little fellow didn't get a start on the big one?'

"And, men, that's just it. Why doesn't the little fellow get a start on the big one? That man knew, and you men know, that there are from 800 to 1,000 kernels on the average ear of corn. Don't you see that this little, puny stalk very probably has some 800 or 1,000 little brothers and sisters in that corn field, just as little and weak and delicate as this puny one? That man saw, and I hope you see, how foolish it is to take any chances in using an ear of corn for seed purposes without first giving it a thorough germination test."

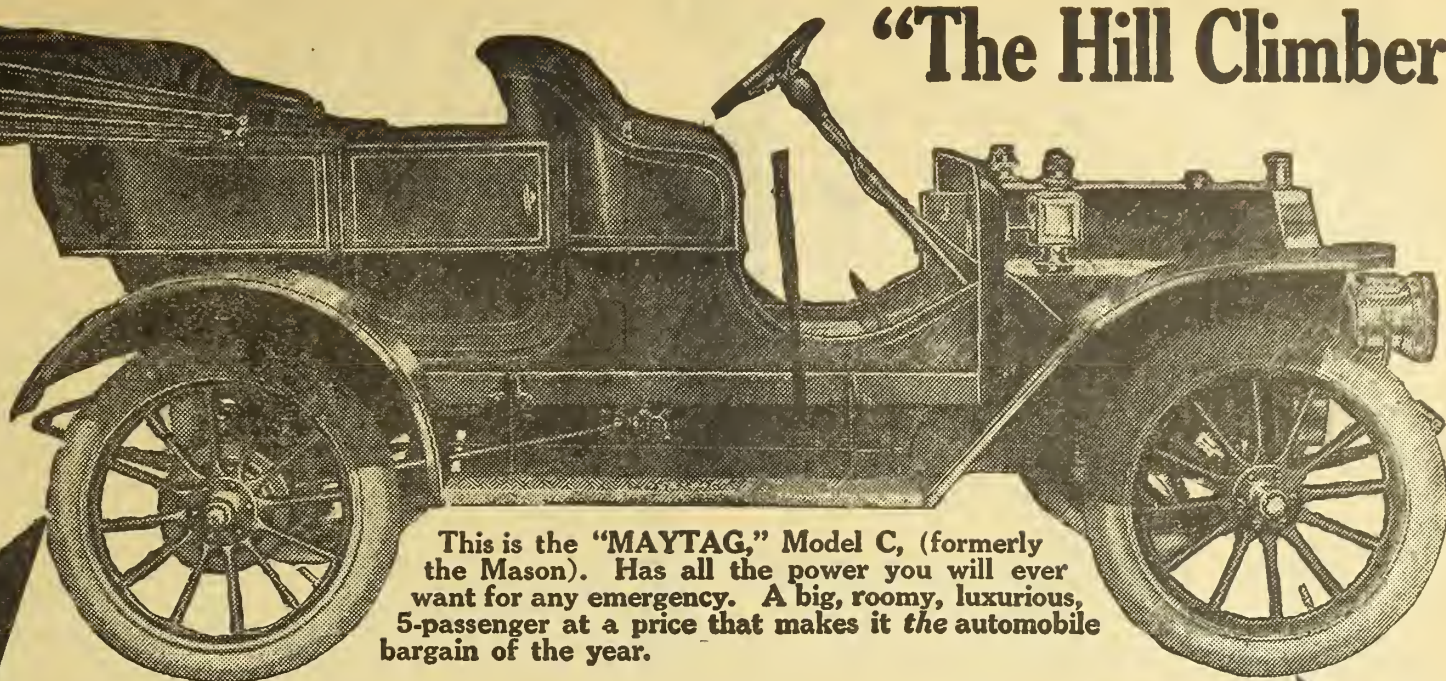
Professor Holden and Professor Crossley took occasion at every town to give a practical object lesson in making and using a home-made germination box. At an outlay of less than a dollar for pine boards and yard-wide sheeting a test box can be made with answers every purpose. Here is Professor Holden's formula for such a germination box:

"Any box about three or four inches deep and 30x30 inches in size may be used. Fill the box about half full of moist sawdust well pressed down so it will leave a smooth, even surface. The sawdust should be put in a gunny sack and set in a tub of warm water for at least an hour (or better still, over night), so it will be thoroughly moistened before using. Rule off a piece of good white cloth (sheeting), about the size of the box checkerboard fashion, two and a half inches each way. Number the squares 1, 2, 3 and so on. Place it over the sawdust and tack to the box at the corners and edges. Lay out the ears to be tested side by side on the floor; remove one kernel from near the butt, middle, and tip of the ear; turn the ear over and remove three kernels from the opposite side in a like manner, making six kernels in all, thus securing a sample from the entire ear.

(Continued on page 26)

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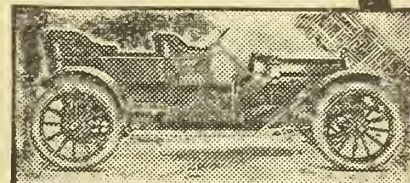
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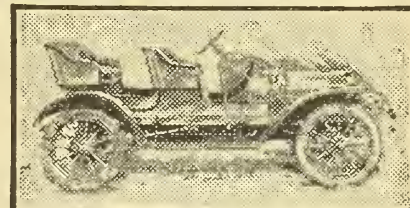
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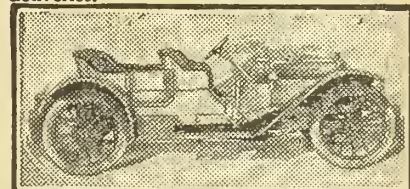
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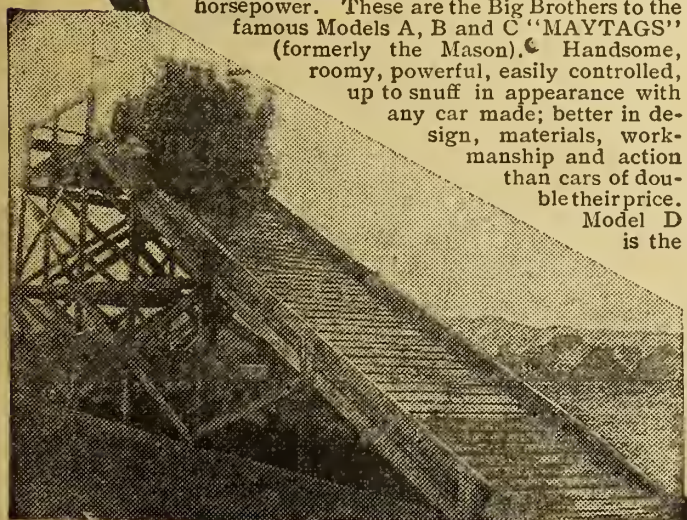
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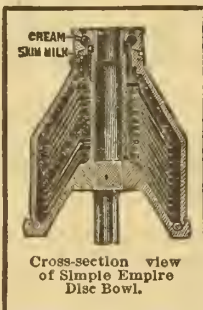
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Cross-section view of Simple Empire Disc Bowl.

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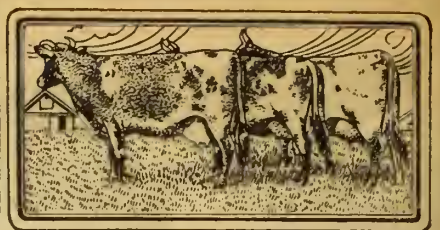
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ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

A LOCAL HOLSTEIN ORGANIZATION.

At the invitation of Prof. C. M. Evans, of the Lenox College Agricultural Department, the breeders of Holstein cattle near Hopkinton, Iowa, recently organized the Northeastern Iowa Holstein-Friesian Breeders' Association.

The following officers were elected: President, Prof. C. M. Evans, Hopkinton, Iowa; vice-president, Rudolph Bohren, Monticello, Iowa; secretary, T. J. Joseph, Hopkinton, Iowa; treasurer, Jacob Platt, Hopkinton, Iowa.

Dr. E. E. Reed and J. Platt, of Hopkinton, and D. Schnittger, of Delhi, were appointed a committee to draft articles of organization.

The objects of the organization are to cooperate with the state and national association in boosting and improving the breed; to secure foundation stock for beginners; to meet annually for studying judging types and management; to cooperate in having official advanced register tests conducted; to co-operate in the sale of surplus stock.

The next meeting is called to meet at Lenox College next February during the agricultural short course, at which time a special day will be devoted to a study of dairy breeds.

After the meeting adjourned those present were taken over to "Urban-side" farm to inspect the pedigreed Holsteins owned by Reed and Evans, J. Platt and others.

All present were enthusiastic as to the possibilities of the organization. Professor Evans intends to push the organization of similar local organizations of the various breeds of live stock to aid in improving the class of stock kept in the section of country that is supporting the Lenox College Agricultural Department.

SWISS CHEESE MAKING.

To the Editor of The Homestead:

Swiss cheese is known in the old country by the name of Emmentaler. Its origin is not definitely known, but it has been made in the canton of Bern since the 15th century.

Swiss cheese in its manufacture belongs to the sweet-curd varieties of cheeses, that is, that which has not any acid developed in its whey during the process of manufacture. In the manufacture of the ordinary cheese used, which is called Cheddar cheese, acid is developed in the whey during manufacture. The milk used should be perfectly sweet. Care should be exercised in keeping the milk clean, for if the milk be contaminated the curd is liable to be spoiled.

A slight degree of acid is required, and this can be produced by the addition of a small amount of lactic acid ferment, or starter as it is called. Since the presence of some acid allows the rennet to expel the whey more rapidly and completely, the addition of the starter prevents the possibility of producing a glaesler cheese. In the completed product the curd should be full of small eyes to be a perfect Swiss cheese. A glaesler cheese then is one in which the curd was so wet and heavy when put to press that the eyes were never produced.

After a small amount of starter is added the milk is heated to 86° F. and the rennet added. The milk is stirred with a tin scoop for four or five minutes, then stopped so that the forming of the curd will not be interfered with. In the course of twenty or thirty minutes the curd should be ready to cut.

A Swiss curd, when ready to cut, should be of about the same consistency as a Cheddar curd. That is, it should make a clean break over the finger when the finger is inserted.

The Swiss harp is used in cutting

the curd. It is so called because of its shape. It is an iron frame with a long wooden handle. Five wires are strung lengthwise of it, about an inch apart. This is carefully inserted into the curd and by circular motions across the kettle the curd is broken into pieces about an inch in diameter. It is then stirred a few minutes to keep the curd apart while it firms a little. The curd is then cooked, being stirred quite vigorously during the cooking. It is stirred until the temperature has reached 130° to 135° F. The heating is then stopped, but the stirring is continued until the curd is quite firm, when it is allowed to settle.

The curd is next dipped. It is ready for dipping when it ceases to feel mushy and will not squeak between the teeth. This is one of the most important points in the process, for if the curd is not cooked enough it will result in a glaesler and if it be cooked too much the ferments will work so slowly that eyes will not be formed.

The curd is placed in a linen cloth strainer as rapidly as possible so that none of it will dry, and hung upon a rope suspended from the ceiling and left to drain.

The pressing table is usually inclined so that the whey may drain off from the curd after having been placed in the molds. These are circular hoops resting upon a circular press board with a similar board pressed on top. The hoop is adjusted in diameter by means of a cord so that the curd a little more than fills the hoop. For the first fifteen minutes it is pressed lightly, but the pressure is increased until the end of a half hour the full pressure is on. The cheese is turned several times during the day, the cloths being adjusted each time. There are usually two cloths

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The Homestead.

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used, one cloth spread underneath and the other one on the top and tucked in between the hoop and cheese. These can also be pressed in blocks in wooden forms in the same manner. After being in the press for twenty-four hours the cheese is taken out and the date marked upon it.

The next step is one that is essentially different from that of Cheddar cheese making, and that is the salting. In the case of Cheddar cheese the salt is applied to the curd before it is put to press. In Swiss, the salt is applied to the curd after having been put to press. Most makers salt their cheese in a brine bath. The brine is usually kept in a cool room, the solution being made up by dissolving enough salt in the water to float an egg. As the cheeses are salted in the bath, considerable salt is absorbed and it is quite necessary to renew the salt frequently. The cheese is immersed in the brine and occasionally turned over since the cheese will rise and float a little above the water. A cheese is kept in the brine for three or four days, according to the amount of salt it is desired to work into it.

Some makers do not use a brine solution for salting, but salt the cheese dry. This is done by scattering salt on top of the cheese. No more salt should be applied than can be absorbed over night, so that the cheese will be dry the next morning. A cheese is dry salted in about three to five days. One advantage of the brine solution over the dry process is that the salt is distributed more evenly. The presence of gas will be shown by swellings on the cheese, which can be checked by the application of a little more salt at this place.

The starting of the eyes in Swiss cheese is one of the important phases and is carried along in two stages. The use of two cellars is necessary. The first cellar should be kept at a temperature of about 70° F. At this temperature the gas fermentation sets in and starts the eyes. By tapping the cheese with the finger the eyes can be located, for the cheese will begin to sound hollow. Care should be taken to prevent the formation of too many eyes in one place. The growth of the eyes can be checked by the application of salt. Drying checks the growth of eyes, so it is necessary to provide for the presence of plenty of moisture. The cheese should be kept from mold by frequent scrubbing and scraping.

After the eyes have been well started the cheese is transferred to a second cellar, which is kept at about 60° F. Here the eyes may still develop slowly, but they should not bloat the cheese.

It is quite impossible to develop the eyes in the cheese in one cellar, for it is quite difficult to get the eyes started, and if started it is likely they will go too far.

The breaking down of the hard curd into soluble peptones by the action of the enzymes of the milk requires some time, so a cheese is for that reason not ready for consumption much before eight or nine months.

Augustus Forrest.

SELECTION OF A HEALTHY HERD.

To the Editor of The Homestead:

The selection of a healthy herd of cows is of much importance, for without a healthy herd, production of wholesome milk is impossible. Therefore, every animal selected should be subjected to a strict examination, preferably by a veterinarian, or at least by some one familiar with stock and their diseases. This examination should include apparent soundness and the tuberculin test. Whether they be apparently healthy or not, the condition of the udder should receive especial attention, as conditions which may be present in the udder may permanently affect the function of that organ. A record should be kept for a reasonable length of time of such animals as are accompanied by a certificate of soundness. A complete history of each animal should be obtained, especially with regard to abortion, either in the animal itself or in the herd with which it has associated. Cows that have recovered, or bulls having served aborting cows may act as carriers of contagious abortion.

In the selection of a private milk cow the same principle of examina-

tion should be adopted, but if such is possible it should be carried out in a more thorough manner, as the healthfulness of the family milk cow may have a direct influence upon the healthfulness of the family. If the family milk cow is unhealthy, the milk being used undiluted with other milk, is more apt to be harmful to the consumer than when mixed with the milk of healthy animals.

A suitable place located as far as possible from the cow shed and dairy building should be provided for the isolation of any animal that may show symptoms of disease. As soon as any symptom is noticed in any of the animals, the animals should be removed immediately to the isolation ward and maintained there until it is positively known that the condition is not transmissible. If it be transmissible the animal should be retained until all danger of transmission has passed.

The cleaning out of the stable and the grooming of the animal should occur at least a half hour before the time of milking, in order to allow the dust to settle. Dusty fodder should never be handled just before milking. The animals may be better fed after milking is completed. In some cases it may be well to sprinkle the floor before milking. At regular intervals, occurring at least once a year, the entire place should receive a thorough cleaning. During this period of cleaning all adherent filth should be removed by scraping and washing, to be followed by spraying with a disinfectant and completed with a coat of whitewash or paint.

An examination of the herd, including the tuberculin test, should be conducted once, or better, twice a year. If at this time any animals are found to be diseased, they should be removed at once to the isolation ward and the milk discarded until they are again healthy.

Subscriber

CORN FOR THE SILO.

To the Editor of The Homestead:

Corn is king of all cereals. It is the gold field of the farmer in the greater part of the United States. But the question is how to successfully grow corn. The first requisite is the soil. If our soils are not good corn soils naturally, in order to successfully compete with the man who has a good corn farm and grow as many tons to the acre as he does, we must get busy and make good soil. This is not done in the twinkling of an eye, neither is it done in one year, but it takes many years to make it good, extra good. There are four good things to observe in soil improvement. They are drainage, good tillage, saving and applying farm manures, and the growing of legumes, such as clovers, field peas, etc. We can grow good corn on a fairly drained soil, but can grow better on a thoroughly drained soil, and that is something but few farmers have. Good tillage or preparation of the seed bed is the greatest factor of all, but selection and care of seed is also a very important part in successful corn culture. In the past, many crops have been considered for silage purposes, but invariably it has been found that corn is far superior for that purpose. Occasionally, in a wet season, a crop of clover that might otherwise be lost may be saved by storing it in the silo. On the whole, where corn is the principal crop raised, this product alone will be found most satisfactory in making silage, for several reasons, the main one no doubt being that unless the corn is put into the silo, the stalks, which represent a large percentage of the feeding value of the crop, will be wasted, while the clover, alfalfa and cowpeas which might have been used for silage, can be stored in a small barn or even in a stack. Storing these in dry form is an advantage, as some dry foods are necessary to be fed with the silage.

I plant corn intended for the silo on clover sod. In winter and spring this is manured with about twelve to fifteen loads of good stable manure to the acre. The ground is plowed late in the fall, as I have more time then, the ground works better, and the work is out of the way when spring comes. The seedbed is made as perfect as possible. Be thorough with it, and even if it does take a day or two longer, you will be ahead in the end, as it will plant better and there will be no

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hard places when you come to drag and cultivate. Care should be taken that it is not planted too deep. If planted with a machine, set shallow, so that it will be nicely covered, and when followed by the drag as should be done immediately when the rows are filled with fine dirt, it will be plenty deep enough. It is better to drag three times, as many weeds are killed in this way that would cause a lot of bother later on, and it also helps to preserve moisture. I plant in drills three and a half feet, the long way of the field. The cultivation should be shallow so as not to injure the root growth, and should be done often to prevent weed growth and evaporation of moisture.

Get a good variety of corn, I mean one that has given good results in the locality in which you wish to grow it, one that will not only give yields of stalks and grain, but will fully mature before frost comes. The matter of maturity is very important, for no corn will give the best results in the silo when placed there before it has reached this stage. Green corn, or that which is immature, will invariably make unsatisfactory silage, and this has been the mistake of many farmers in their first experience with the silo. They have used corn for filling that was not in the right condition, that had not fairly matured, the kernels not having become glazed and well dented, and consequently their silage has come out sour, as they term it. Do not cut until the kernels have dented and it is about ready for the shock.

The silo has been unusually popular during the past season, and many new ones have been put up. There is no reason why every barn should not be accompanied by a silo. We cannot have too many good barns, but we must begin to realize that the silo is as important as any other building. In fact, a farm without live stock and a silo is surely on the road to depletion. The silo makes live stock profitable, checks the farm in its downward course, and starts it back toward its original condition of fertility. The silo is about the most important building around the farm.

If the feeding commences immediately after filling the silo, and this is a good way to do, there will be no damaged silage at all. My way to feed the silage ration is in two feeds, night and morning, and it is better to feed after milking, because the peculiar odor of the silage might affect the flavor of the milk. Cows as well as other stock have a wonderful liking for silage, and I believe much of the success in feeding it can be attributed to its palatability. They even prefer it to a certain extent at least, to freshly cut forage or good grass in the pasture. I have seen cows in June, when on good pasture, come to the gate at four o'clock in the afternoon and below to come to the barn and get silage, which they would eat greedily and with apparently great relish. There is no better and cheaper feed to supplement short pasture that we are almost sure to have every summer on account of drouth or other causes, than good silage. I know some of the most successful dairymen in the country who feed silage every day in the year, winter as well as summer. I believe the time is not far distant when a large portion of the feed consumed upon the average farm will be silage. When our people once realize its value, silos will be put up as fast as their means will permit. In each community some one will have to lead in demonstrating its value in the dairy barn, the sheep pen, and the feed lot. Many are deterred from building a silo by the cost of machinery. My silo machinery consists of a ten horse power gasoline engine costing \$600, a corn harvester costing \$120, and an ensilage cutter costing \$150. Now here is an outlay of \$870, with an annual interest account of \$43.50. If I am careful to house that machinery well and look after it as it should be, it will last a long time.

J. P. Fletcher.

CONCEALED CHARACTER OF TUBERCULOSIS.

As it is the often long-concealed character of tuberculosis through which it is especially dangerous when it affects animals that are valued, like dairy cows, because an important article of food, like milk, is produced

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Repeated tests have shown the above increase in favor of really accurate planting.

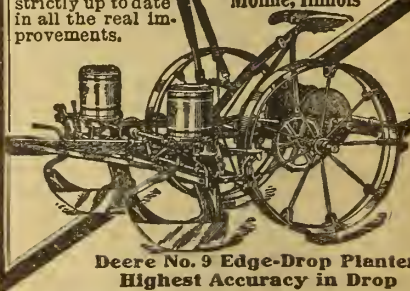
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The Cantonian Pivot Wheel Cultivator

The wheels and gangs both angle together and in the same direction by means of the foot levers, which are operated by a straight, forward push. The wheels can be pivoted in either direction, and it is impossible for the gangs to scrape the wheels as the foot levers have stops. The gangs are raised by the horse-lift movement, the team taking the work of raising the gangs, and at the same time balancing the frame.

When the gangs are raised, both wheels and gangs are automatically brought into the direct line of draft and locked in that position, regardless of the position of either gangs or wheels before the former are raised. Telescope axle, and 42-in. wheels with dust-proof boxes. The frame is very strong and rigid, and taken altogether it is one of the most serviceable cultivators ever made.

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MORE CREAM-LESS WORK

That is what you ought to get when you buy a Cream Separator. That is what you WILL get if you try the **NEW BUTTERFLY** at our expense for thirty days on your own farm. The easiest and quickest way for us to show you how much more cream the **New Butterfly** gets from the same milk, how much easier it is to turn than any other separator and how much less work and worry it takes to keep it clean, is to let you use one of these machines right alongside of any other for thirty days.

WE MAKE EVERY NEW BUTTERFLY SEPARATOR in our own Chicago factory. We sell direct to you at prices from only \$14.85 up to \$46.30, according to the number of cows you keep. We want you to have one of our 1910 catalogs—the most complete book ever written on cream separators. This book explains our patented, one-piece, aluminum skimming device, which always gets the most cream and is the easiest to clean; also shows the low down, self draining milk supply tank, the easily cleaned open milk and cream spouts, the vertical shafts, the oil bathed frictionless pivot ball bearings which make the **New Butterfly** the lightest running and most durable machine made, and the closed bottom which prevents oil from dripping onto the floor. All these and many other exclusive **New Butterfly** advantages are fully explained in this handsome 44-page catalog.

JUST SEND US YOUR ADDRESS and we will mail you this book at once, free and postpaid, and we will also send you a thirty-day free trial order blank, so you can try the size of **New Butterfly** Separator you need, entirely at our risk, on your own farm. Write today for catalog. Address the makers—

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2196 MARSHALL BLVD., CHICAGO, ILLINOIS

and up to \$46.30

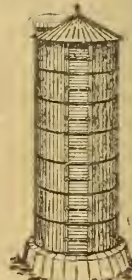
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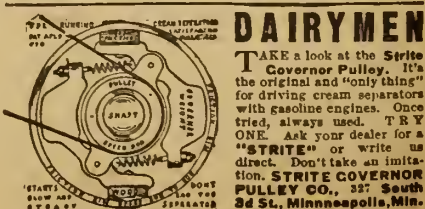
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Don't plow a single acre till you read how to save all the work and time of harrowing and how to make the most perfect seed bed with the **KRAMER Rotary Attachment** the original and only genuine. Send name, for Free Book, No. 14 or see your dealer now. You can't afford to be without a **Kramer**. **THE KRAMER CO., Paxton, Ill.**

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PLOWING 14 to 16 Inches DEEP



The Spalding DEEP Tilling Machine

Thoroughly pulverizes the soil to the full depth of the seed-bed, reducing the cost of fitting from one to two-thirds.

It will plow dry, hard and refractory soils that a mold-board plow will not penetrate.

It buries surface trash beyond reach of the harrow.

It buries weed-seed so deep that very few will ever germinate.

The right use of the Spalding Deep Tilling Machine is usually followed by an increase in the yield of 25% to 50%, and often more.



Note Position of the Discs

The first disc cuts 5 to 8 inches deep and throws top-soil and trash to bottom of former furrow. The second disc cuts 6 to 8 inches deeper, bringing up virgin soil and thoroughly mixing with top-soil. There is no furrow slice. The whole seed-bed is pulverized to its full depth.

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Complete description of machine and what it will do; advantages of deep-tilling; illustrated with photographs of machine in operation. Address Department "F."

THE SPALDING TILLING MACHINE CO.

Superior Ave. & W. 6th St., Cleveland, O.

within and is daily drawn from their living bodies for long periods of time, this concealed character must be regarded as one of the important facts about the disease, and as too many persons are inclined to take for granted that a dairy herd is free from tuberculosis simply because the cows of which it is made up look and act like healthy animals, it seems desirable to clearly define this concealed character.

Tuberculosis may be acute and progress rapidly from infection to death. But this is very rare. More commonly it is an insidious, slowly progressive, chronic disease, the beginning and early stages of which are rarely recognized. It may attack and remain confined to any one part of the body; it may attack many parts in succession, one after the other, or it may attack several or many parts simultaneously. Its encroachments are so gradual that the body can adjust or adapt itself to the changes the disease causes until they have become very extensive, without giving external evidences of the struggle to do so, and often the disease progresses to nearly its fatal termination in cattle without showing a well-defined symptom or an observable sign of its presence.

The body of an animal can adjust itself to great changes that are of slow growth because all its organs and different parts are naturally much larger, stronger, and more capable than they need to be to serve the ordinary, usual vicissitudes of life. The difference between the actual and the commonly required vigor and capability of the body, or one of its parts, is known as the factor of safety.

Through the existence of this factor chronic diseases, like tuberculosis, which do not seriously shock the body by rapidly or suddenly overwhelming one or more of its parts, as acute diseases often do, may continue their destructive operations a long time without a manifestation of well-marked symptoms. In fact, the destructive changes may and often do progress without observable signs of their existence until the factor of safety of some important organ has been nearly or wholly destroyed—that is, until a fatal termination is close at hand.

The opening through which the breath of the cow must pass has its caliber, its original efficiency to admit air, reduced so much through the pressure of the tuberculous glands that her breathing becomes painfully difficult after she has walked less than a mile; if she should be driven a mile at a rate of speed which would not seriously affect a healthy cow, there is no doubt that she would collapse and die of suffocation. The amount of air that can find its way through her narrowed air passage is sufficient to keep her in excellent condition; it is all that is needed for the customary or usual vicissitudes of her routine life, and the difference between what it is and what it was before she contracted tuberculosis is a factor of safety that has been lost.

A factor of safety comparable to the normally liberal size of the passage through which air reaches the lungs of healthy animals is possessed by every organ of the body. Half of the lung may be destroyed by tuberculosis without causing death; we can still see when one eye has lost its vision; one kidney is sufficient for the maintenance of life; and so on with every organ. The fact that this so-called factor of safety of any one organ or of several organs of a cow may be almost wholly obliterated by tuberculosis before externally observable symptoms of the disease assert themselves should be kept in mind by those who desire to keep a healthy herd free from the disease by avoiding the introduction of tuberculous cows into it, and by those who wish to protect themselves from that exposure to tuberculosis which comes to persons through the use of milk and dairy products derived from tuberculous cows.

Joseph Fancher, of Missouri City, owns the oldest and largest apple tree in Missouri. It is more than sixty years old and is eight feet seven inches in circumference.

Ask your neighbor to subscribe for The Homestead.

Save from \$100 to \$500 in Cribbing Your Grain

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THIS book has been carefully compiled for us by the highest authorities on the subject. You couldn't buy this book at any price. It's new and entirely different. You could well afford to pay \$6, for it shows how to save hundreds. But we want to send you a copy with our compliments. It explains and figures out for you the money-making methods of handling and cribbing ear or shelled corn, oats, wheat, barley, all grains or cotton seeds.

On a new crib it shows how to save—\$113 on a 2,600 Bushel Crib—\$166 on a 3,072 Bushel Crib—\$555 on a 5,840 Bushel Crib, etc. It contains the Plans and cost of 9 Different Crib.

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All illustrated and figured so you can't go wrong. Different styles and sizes for all purposes. With this valuable Gift Book, that you could not buy at any price, we will send you complete catalog and low price on the money-making, labor-saving, time-saving LITTLE GIANT PORTABLE GRAIN ELEVATOR.

As a progressive, business-like farmer, we want you to know the "Little Giant."

No hand work there. No back-breaking scooping—the hardest part of husking.

Drive your load right on the wagon dump or jack, throw clutch in gear, start horse power or gasoline engine, if you have one, then you rest. And the grain goes up to any height and the highest load is all in under five minutes. When wagon is empty shift clutch—wagon comes down automatically, twice as quickly as it went up—and you drive off for another load.

Another thing: With the "Little Giant" you can build high cribs. That's a big saving. Think of the granaries along the railroads. They know. Build cribs that will enable you to hold for your price.

And huskers work for less money where the "Little Giant" is used and save from one-fourth to one cent a bushel. Boys can husk. They cannot scoop.

But the "Little Giant" is not only the highest money-saver, but the greatest labor-saver as well. It is so simple and reliable that a boy can operate it.

You drive on the "Little Giant" Jack from either side. It's the only one so made. You have no ropes to attach to muddy wheels; no trouble getting wagon adjusted, power is attached to the elevator or the jack. This means that the "Little Giant" is conveniently used under all conditions—you don't

have to arrange your buildings to suit the elevator. And because there are only one-half the working parts which the ordinary complicated arrangements need—the "Little Giant" is safe. There is nothing to get out of order.

When you get our book you will fully understand why we have stacks of letters like the following:

"I would not be without a Little Giant dump twice the price. One man can operate it. Unload 40 bushels in four minutes. While unloading I am resting."—John M. McDowell, Delavan, Ill. Write Today; don't wait till you forget about this. There is too much at stake. This book of Crib Plans and Little Giant catalog are full of money-making hints. Address—

Portable Elevator Mfg. Co.
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Blacklegoids

Simplest, Safest, Surest Vaccination
for the prevention of

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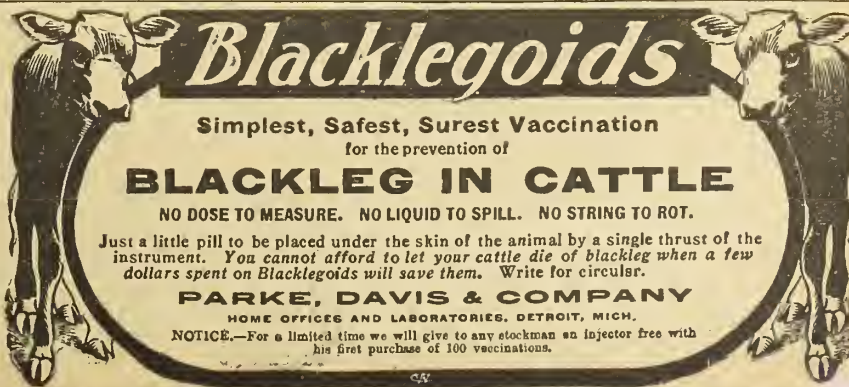
NO DOSE TO MEASURE. NO LIQUID TO SPILL. NO STRING TO ROT.

Just a little pill to be placed under the skin of the animal by a single thrust of the instrument. You cannot afford to let your cattle die of blackleg when a few dollars spent on Blacklegoids will save them. Write for circulars.

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Gurney Seed & Nursery Co.,
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Gentlemen:—I am pleased to be able to report that your Minnesota No. 13 yielded at the rate of 95 bu. per acre in my test rows last summer. I had considered the Minnesota No. 13 too small and early for us, but thought I would test it with four kernels per ear instead of three as we generally plant in this country. There was hardly a barren stalk in the field which made possible the high yield.

Your Gurney's Model dent is a good corn for northern Iowa and I think you are altogether too modest in your claims for it. I showed a sample of it at the National Corn Show and won a corn grader.

Yours respectfully,
Miller S. Nelson,
Pres. Iowa Grain Dealers' Association.

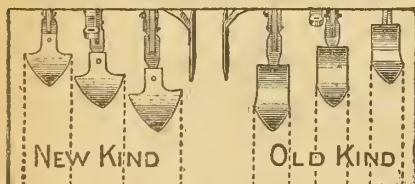
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Is better than ever after 18 years' SUCCESS
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THE SCHOFIELD POTATO PLANTER
Thousands of satisfied customers. Sold from factory to farmer at special prices. Satisfaction guaranteed. Write today for catalog H
SCHOFIELD & COMPANY,
Manufacturers, FREEPORT, ILL.



Save the Corn Roots

BROTHER Farmer, if you'll let me, I will help you make money by using my surface and deep cultivator shovel. Will fit any round shank, cut all weeds, scour in any ground; save the corn roots and handle easy for boys and horses. Send for circular.

Chas. Burmeister, Sutherland, Ia.



"MORE POTATOES"
From ground planted secured by use of the KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for catalog, price and full description.
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SWEDISH SELECT OATS

Pure, Recleaned Northern Seed. The great Oats of the Corn Belt. \$1.00 per bushel in twenty-five-bushel lots; \$1.25 per bushel in ten-bushel lots.

THE SUMMERS SEED HOUSE, Malvern, Ia.

THE EARLIEST TOMATO, 2c.

FOR 2c. we will send you a packet of Jack Rose, the earliest tomato. Yields large, smooth, solid fruits. We will also send you our catalog and coupon good for 5 packets of grand new seeds free. If you want the best seeds it is possible to grow send for JUNG QUALITY SEEDS. Send today for this great offer. Address, J. W. Jung Seed Co., Dept. 15, Randolph, Wis.

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CARMENNO. 3—best late, white, yield; better than Rural N. Y., which they much resemble. Save money by buying direct from the grower. 5 bushel or more, 80c bu. Less amounts \$1 bu. S. C. Buff Orpington eggs \$1 per 15. Extra good mating. Address O. J. EARLY, BRISTOW, IOWA.

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GREAT BARGAINS White Pine and Arbor Vitae, 2 to 3 feet, \$10 per 100; a 1½ acre orchard for \$16. Send postal for catalog and other bargains. Address West Side Nursery, B 12, Postville, Iowa.



THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

GROWING CELERY FOR MARKET.

Celery can be grown with less difficulty than most people suppose. It is the most popular salad on the American market, and is in good demand at all times of the year. The seed should be sown in a bed about the 10th of April in the northern states; this bed should be composed of very rich soil, or else be well manured. The soil should be made smooth and quite firm before sowing the seed, and after the seed is sown it should be packed down by laying a board on it and walking across the board; then cover the seed with one-fourth inch of fine soil and pack down again. The soil should be kept moist, almost wet, until the seed germinates, which sometimes requires about three weeks. The bed may also be covered with cloth or matting until the plants come up, but it is better to keep the soil moist and leave the covering off. In this seed bed it is best to sow the seed in drills about six inches apart, and when the plants are well up thin out to stand about one-half inch apart in the rows so that the plants will make a deep root growth. Trimming off the tops will also help towards developing a strong root system.

Late in June or early in July transplant these plants in the field in rows three feet apart for the dwarf, and four feet apart for the larger varieties. Set the plants eight inches apart in the rows or trenches six inches deep and one foot wide, in the bottom of which a liberal quantity of well-rotted manure should have been mixed before setting out the plants. Before taking the plants up from the beds they should be thoroughly watered and the plants should be lifted with a fork so as to disturb the plant roots as little as possible. If the soil is moist at the time of transplanting the plants should begin vigorous growth at once, and if given frequent cultivations they will be ready to commence bleaching in from six to eight weeks after setting out in the field.

The bleaching or earthing-up process must be carefully done. When the plants are from twelve to fifteen inches high, a furrow can be plowed toward the row from each side. Then the soil should be drawn towards the plants with a hoe; this is done by grasping the plant in one hand and drawing the fine soil towards the plant with the other, being careful not to allow any soil to come in contact with the heart. In a few days draw up more soil; this should be repeated until the plants are covered so that only the tops remain above the soil. The self-blanching sorts require banking also, not to blanch them, but to remove the strong flavor and make the stalks crisp and tender. To insure crisp and well-blanching stalks bank up only when the soil is dry enough to crumble.

GROWING SWEET CORN.

Sweet corn will do well on almost any moderately rich soil, but the largest crops can be grown on sod land, or where clover has been turned under. It varies greatly in earliness, hardness, size and sweetness.

The early varieties are quite hardy and may be planted quite early (about the time the trees are starting out in leaf), and as the stalks only grow to a height of from three to four feet the rows need not be over three feet apart, making the hills about two feet apart in the rows. Plant from four to six kernels in a hill, and when well started thin out to three stalks to a hill.

A secret in getting sweet corn ahead of others is to start a quantity of seed between two sods, or soil, by putting in a warm place, and when well sprouted plant out in the garden, but care should be taken in planting the sprouted seed lest you break off the sprouts which have started. By this plan you can gain from ten days

to two weeks in the earliness of your crop.

The seed of the later and sweeter varieties is quite tender and should not be planted before the ground is quite warm or the seed will rot in the ground. The rows should be from three to four feet apart and the hills about the same distance apart as the rows.

As soon as the rows can be followed commence to stir the soil, and give frequent but shallow cultivations until

DO YOU MAKE GARDEN

If you do—you need a strictly high-grade, hand-made tool like the



Beats All GARDEN PLOW
It's warranted to scour in any soil with proper care.
These plows are used in every state in the Union. Strong, durable; all attachments interchangeable. Ask your dealer or write Hartley Mfg. Co. Hartley, Iowa.
Agents Wanted

APPLES, PEACHES, CHERRIES, PLANTS, SHRUBS

Why not have a little fruit of your own; and your front yard decorated with a few hardy, ornamental shrubs and trees? Read every word of this generous offer:

- 2 Duchess apple, 2 years old.
- 2 Wealthy " " " "
- 2 Mo. Greening apple, 2 years old.
- 5 Salway peaches, 2 years old.
- 2 Montmorency cherries, 2 years old.
- 25 Bubach strawberry plant.
- 25 German Iris—fine.
- 1 Snowball.
- 1 Spirea.
- 5 Norway poplars, 3 to 4 feet.
- 5 Concord grapes.

PREPAID

To all points in Iowa, Illinois, Minnesota, Nebraska, Missouri, Kansas, So. Dakota and Wisconsin.

PRICE
\$4.44

Ask for Bargain Bulletin

Think how much more beautiful your home would be with this collection. All the above stock guaranteed absolutely true to name.

Send us your order in 15 days and we will include with the above: One Dorothy Perkins Rose, one Baltimore Belle Rose, one Hydrangea and one Honeysuckle. Address

IOWA NURSERY COMPANY, Desk 3, DES MOINES, IA.

CRILL THE SEED CORN MAN ELK POINT, S. DAKOTA HAS GOOD NEWS FOR IOWA FARMERS

I OFFER for sale as long as it lasts: 3,000 bushels 1908 Reid's Early Yellow Dent; fancy ear seed in crates, \$5 per bushel, shelled and graded, \$4 per bushel. 2,000 bushels 1908 Iowa Gold Mine; fancy ear seed in crates, \$4 per bushel, shelled and graded, \$3 per bushel. 5,000 bushels 1908 Dakota Gold Mine; fancy ear seed in crates, \$4 per bushel, shelled and graded, \$3 per bushel. 1,000 bushels Early Yellow Murock; fancy ear seed in crates, \$4 per bushel, shelled and graded, \$3 per bushel. This corn has been carefully saved from the year before, in well-aired and ventilated cribs, and I positively guarantee every bushel to test 90% or better, and I believe it will test over 95%. All my corn is raised within 15 miles of Elk Point, South Dakota, and is ten days to two weeks earlier than southern-grown corn of the same varieties. My Guarantee: Every bushel good or every bushel back. I have good 1909 seed corn also. Write today for circular and samples. **L. N. CRILL SEED COMPANY, ELK POINT, SOUTH DAKOTA.**

100 TRANSPLANTED EVERGREENS \$8 Express Prepaid

These trees have been transplanted and root-pruned, which gives them the large abundance of roots necessary to the life of the tree. They are from 1 to 1½ feet in height and first class in every way. Then they are backed by the fairest guarantee of any nursery in the U. S. and by the reputation of

Iowa's Greatest Evergreen Specialist For Forty Years.

We have 50 special bargains that will surely please you. Our guaranteed hardy fruit trees and small fruits will prove hardy or they cost you nothing. GET OUR NEW CATALOG FOR FULL DESCRIPTION. Our new catalog is chock-full of bargains on our guaranteed Hardy Apple Trees, Plums, Cherries, Small Fruit, Shade Trees, Evergreens, Roses and Flowering Shrubs.

Bristow Nursery Co., 210 Bridge St., Hampton, Iowa.

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Earliest and best in the world; Early Ohio, Early Rose and Early Six Weeks, the standard of all best varieties. Also Carmon No. 3, Rural New Yorker No. 2, and other best sorts. All our seed is Red River grown and the finest stock to be found anywhere. Write for Big Illustrated Catalog of all farm, field, grass and garden seeds. It's FREE for the asking. Address **RATEKIN'S SEED HOUSE, Shenandoah Iowa.**

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Guaranteed first-class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. **J. B. Armstrong & Son, Shenandoah, Ia.**

SEED CORN

seed flax, garden seeds, etc. Catalog free. **THE ADAMS SEED CO., Box 1, Decorah, Iowa.**

Moore's High-Yielding Strain of Reid's Yellow Dent Seed Corn

MEANS 10 to 25 bu. increased yield per acre wherever planted. We have a limited supply of extra fine ear seed, selected early and showing very high vitality test, and we offer it while it lasts at \$4 per bu.; 5 or more bu. at \$3 per bu. Sold only in ear, subject to approval and test, and guaranteed to test 94% or better, or money refunded. Send order at once to **C. MOORE & SON, KELLERTON, IOWA.**

LET ME ADD TWO A BRIGHT HUNDRED SPOT Gladiolus Bulblets

and 5 blooming size bulbs for 25c.

These are the finest mixture of Field's Giant Flowering Gladiolus. Mailed postpaid anywhere in the United States.

Or 1000 bulblets and 25 bulbs for \$1.00.

Full cultural directions with every lot. All the bulbs and some of the bulblets will bloom this year, all next year. Order at once before they are gone. They will grow and bloom anywhere, in any soil and for any one.

My catalog (mailed free) describes over 50 beautiful named varieties besides hundreds of other kinds of flowers and vegetables. Ask for it.

Henry Field Seed Co.

Henry Field, Pres.
Box 25 Shenandoah,
Iowa.

TO
YOUR
GARDEN

SEED CORN

GUARANTEED BY
\$10,000 Bond

Good Seed Corn will be scarce most everywhere this year. We're fortunate in having fine crops—grown by our experts, all sorted and tested. Ears large, solid and perfect shape; grain deep, cob small; picture shows how closely kernels wedge in. We have several varieties of the finest seed corn grown.

Write for FREE SAMPLES and \$10,000 Bond Proposition

It's the greatest seed corn offer ever made and absolutely protects you against poor quality. Fully explained in our Special Seed Corn Circular and large illustrated catalog of farm and garden seeds which will be sent free on request. Address

IOWA SEED COMPANY,
Dept. D1 Des Moines, Ia.

10 PACKETS 10¢ Farm SEEDS 10¢



A great trial collection of farm seeds, composed of 1 Speltz, the cereal and hay wonder. 1 Silver King Barley, capturing the world prize with 173 bush. per A. 1 Kei Bonanza Oats, backed by four fine farms for biggest yields. 1 Billion Dollar Grass, the Ten Ton Grass Wonder. 1 Salzer's hardy, luxuriant Alfalfa, endorsed by Gov. Hoard as the best on earth and 1 Five other packages. All for 10c in stamps or send 14c and we add a sample package of Nameless Corn. Try to name our new corn, whether or not you buy a sample packet. Send in a name. Entrance is free. If another sends same (acceptable) name as you, the prize will be equally divided. We offer

\$500.00 IN GOLD

for a name. Write to-day. We are the largest growers of farm and vegetable seeds Catalog Free. Name Contest ends May 10th

JOHN A. SALZER SEED CO.
124 So. 8th St., LeCrosse, Wis.

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BIG SEED BOOK FREE

BEST NEW CROP GROWN SEEDS

IN THE WORLD AT FARMER PRICES.

In addition we give a whole lot of extra seeds with every order. OUR BIG ILLUSTRATED CATALOGUE OF FARM AND GARDEN SEEDS IS NOW READY. It is FREE to you. A postal card will bring it to your door. Write for it today; also send the address of your neighbors who buy seeds. Address,

RATEKIN'S SEED HOUSE,

SHENANDOAH, IOWA

NURSERY SNAPS

\$1

20 Budded Peach

Trees \$1.00. 40 Concord Grape Vines \$1.00.

8 Budded Cherry Trees \$1.00. They are strong,

healthy, ready to grow. Catalogue and 25c due bill free.

Write now for choice selections.

Fairbury Nurseries Box 5 Fairbury, Neb.

CLOVER

New Crop
Iowa Grown
Recleaned
TESTED

and Inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc., at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free. IOWA SEED COMPANY, Dept. D1 DES MOINES, IOWA.

EVERGREENS

200 Norway Spruce, 3 to 6 in., \$1; 100 Arbor Vitae, 3 to 6 in., \$1. Prepaid by mail. Many other \$1 barcalins. Larger trees by express or freight very cheap. Sixteen different kinds. Price List free. HARVARD NURSERY, Box IV, HARVARD, ILL.

the tassels appear. For a continuous supply of fresh, tender ears, successful plantings should be made every two weeks until the beginning of July. For the last planting some early variety should be used so as to be sure to have the ears ready for use before fall frosts. To have the finest quality in your sweet corn the ears should be gathered before the grains become hard, which can be easily determined by pressing the finger nail in a few kernels. Sweet corn also makes a valuable fall feed for stock; it is especially valuable for cows, as it produces a heavy flow of rich milk.

CULTURE OF CABBAGE.

Cabbage succeeds best in cool, moist climates and will do well on almost any rich soil that is not too wet nor too dry. A strong, well-drained loam is preferable for the best results. Land that will raise a good crop of corn or tobacco will also raise a good crop of cabbage.

The cabbage is a rank feeder and lime-consuming plant. The presence of a large quantity of lime, as supplied in wood ashes or bone meal, applied with a liberal quantity of barnyard manure, will make an ideal fertilizer for growing this crop. There need be no fear of getting the soil too rich, as some gardeners will apply as much as \$100 worth of fertilizer to a single acre of ground before setting out the crop. The ground on which you wish to grow your cabbage may be plowed quite early and worked over several times before setting out the plants, as you will then kill most of the weeds that are in the soil and will also preserve much moisture. For the late or main crop the seed may be sown in a finely-prepared seed bed, or in the open ground, about the middle of May, and transplanted in the open ground from the middle of June to the 10th of July.

In field culture the rows should be about three feet apart, and the plants two and one-half feet apart in the rows. Have your ground all in readiness, and when a rainy or cloudy day arrives set the plants out in the field. The plants should be lifted with care so as to disturb the roots as little as possible. After setting out the plants give frequent cultivations until the plants commence to head, as cabbage delights in a fine, mellow soil.

If any of the plants fail to head up a teaspoonful of muriate of potash applied around the roots will prove very beneficial. If the plants are not too large to cultivate, sow dissolved bone and muriate of potash along the rows and cultivate or hoe it in. If the crop is backward apply Peruvian guano around the roots and the results will be surprising.

Pure pyrethrum powder mixed with five times its bulk of air-slaked lime and applied to the plants means death to every worm. This should be finely sifted and applied with a bellows so as to reach the center of the plant. The cost of seed is very small when compared to what the crop is worth, yet the quality of the seed is often the deciding point between profit and loss. It pays to plant only the best seed, even if it will cost \$3 per pound.

RADISH PRODUCTION.

This is one of the most popular vegetables in cultivation, and is consumed in immense quantities. The quality of your radishes will depend to a great measure on the quality of the seed sown. French or German-grown seed, or seed grown from imported stock, will produce the finest radish. Avoid the cheap California-grown seed, as it grows too much foliage at the expense of a well-developed root.

In order to reach their greatest perfection they should be grown on light, rich, loamy soil; one that has been heavily manured the previous season is preferable to manuring at the time of sowing the seed, as fresh manure often causes the radish to be strong flavored.

It is better to make frequent small sowings rather than large sowings long apart, as radishes should be pulled for use before reaching full size, and if you make too large a sowing some of the radishes are sure to become coarse and pithy. The first sowing may be made as early in the spring as the soil can be worked in fine, loose condition. Plow or spade

the soil to a good depth, and make the soil fine and level; mark out rows fifteen inches apart and one-half inch deep in which the seed should be thinly sown. As a general rule, most people sow the seed too thick; the fact is that the plants should be at least one-half, or even one inch apart in the row so as to give each plant a chance to develop a bulb or root. In order to be crisp and tender radishes must make a rapid growth, and this can be greatly encouraged by keeping the soil fine and loose during the growing period.

The winter varieties may be sown about the first week in August, in drills one foot apart. If the season is favorable they will be of fine quality, but dry and hot weather during the fall will cause them to be so woody as to be almost worthless.

THE POTATO SCAB.

To the Editor of The Homestead:

The potato scab is one of the most widespread diseases which affects the potato. Some people think that the potato scab is caused by the grub worm, but this is not true. It is caused by a minute parasitic fungus and the effects of the disease on the tubers cause them to decay on the outer surface. This disease may be successfully controlled by dipping the potatoes before planting. The ground in which the potatoes are to be raised should not be manured just before planting, but should be manured the year before, on some other crop, because the manure aids the potato scab fungus to develop and grow. Two fungicides are used for the treatment of this disease, namely, "corrosive sublimate solution" and the formalin solution. To prepare the corrosive sublimate solution, dissolve two and one-half ounces of corrosive sublimate or bichlorid of mercury in about two gallons of hot water, and after ten or twelve hours, dilute with clear water.



Kramer's Celebrated
Twentieth Century Pansies

SOUVENIR PANSY POST CARDS

Special Offer—One packet of Kramer's 20th Century Giant Pansy Mixture, price 15c, together with eight of these beautiful cards in colors, for only 14 cents. Order at once. Illustrated Catalogue of everything for the garden, free. Mention this paper

J. N. KRAMER & SON, Cedar Rapids, Iowa

TREES

Fruit, Ornamental
and Evergreen trees;
Shrubs, Roses, Vines

Everything in the Nursery Line.

Beautifully Illustrated Catalogue and Price List Sent FREE

Special: 45 Concord Grapes \$1.

Nine Cherry trees \$1.

13 Peach trees \$1.00. Write us TO-DAY.

WRAGG NURSERY CO., Des Moines, Iowa.

PRIZE-WINNING SEED CORN

Tests 90 and 100 per cent.

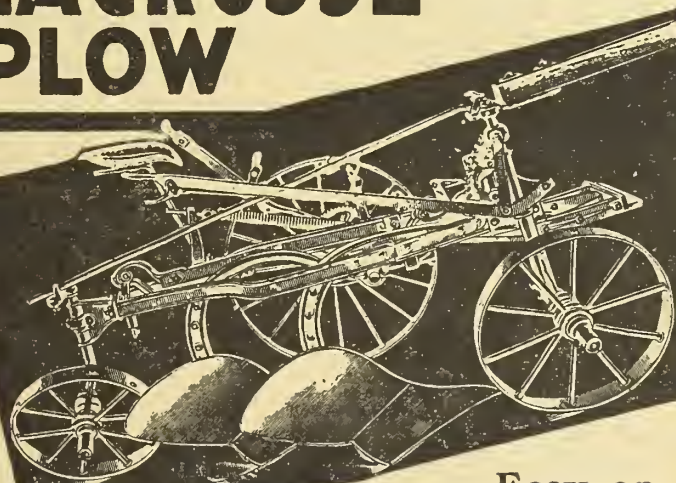
PURE KHERSON OATS

and Field Seeds. Write for catalog and prices.

AYE BROS., Second Street, BLAIR, NEB.

When writing mention this paper.

LACROSSE GANG PLOW



Easy on
Horse and Man

This is a compact, light draft Plow that does good work and is stoutly constructed to last a life-time. It is made of best materials throughout—a better, stronger plow than any other on the market.

Frame Always Level Land wheel axle and lever work as a unit keeping frame level whether bottoms are up or down. No moving of land lever to level frame at ends.

Always Proper Suction due to single bail and flexible connection of beams with rear of frame, also allowing plow to "give" when hitting solid obstruction, lessening chance of breakage and lightening draft.

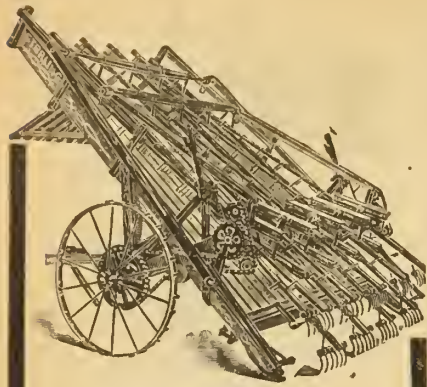
Powerful Foot Lift Compound foot lift is a wonderful work saver, so powerful it can be operated by any boy or girl who can drive a team. Don't buy a plow until you get our Free Catalog and see what substantial, work-saving plows we can offer you. Get our Free Catalog. Write to-day.

LA CROSSE PLOW COMPANY, Dept. L. La Crosse, Wis.

SHIP US YOUR Hides
Fur, Tallow, Pelts, Wool, Ginseng and Seneca. Buy Guns, Traps, Decoy, etc. of us. Write for price list catalogue and shipping tags. Mention this Paper.



WE GIVE more information on Hides, Furs, etc. than any other house in the world and pay Highest Cash Prices—day received. NORTHWESTERN HIDE & FUR CO. 200-204 1ST ST. N.W. MINNEAPOLIS, MINN.



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Sterling Hay Tools

They are dependable and will enable you to crowd haying operations. We make Rake Bar Loaders, Cylinder Loaders, Side Delivery Rakes, Tedders and Sulky Rakes. Write to

STERLING MANUFACTURING CO., STERLING, ILLINOIS.

PROGRESSIVE Tile Machine

Save money by making your own TILE. Only small capital required. All kinds of Concrete Machinery and Gasoline Engines

Attractive Prices

Catalog 1 tells everything, sent free.

UNIVERSAL CONCRETE MACHINERY COMPANY
Federal Bldg.,
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ONE MILLION GENUINE SPECIOSA CATALPA GIVEN FREE

TO ADVERTISE THE GENUINE SPECIOSA CATALPA.

WRITE for this offer and enclose 2c. stamp for our new 34-page illustrated booklet on Speciosa Catalpa growing.

THE WINFIELD NURSERY COMPANY
J. Mouchief, Pres. Winfield, Kansas.



200 Plants \$1.00
100 of that choice new variety Senator Dunlap and 100 of two other choice varieties, and printed instructions with each order on how to grow them.
J. L. TODD & CO.
R. 3, Indianola Ave., Des Moines, Ia.

EAR SEED CORN

PRIDE of South Dakota Early Yellow Dent, Early Snow Flake White Dent, both good yielders; was fully matured and dry before any freeze. Will germinate stronger and better than the 1908 crop. Every bushel guaranteed or money and freight refunded; \$2.50 per bushel. 10-cent stamp gets sample ear.

C. S. BOVEE, ELK POINT, SO. DAKOTA.

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. **THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.**

VANSANT'S SEED CORN

World's greatest yielding varieties. Finest quality. Reasonable prices. Prompt shipment. Plant good seed—raise big crop. Beautiful catalog free. **W. W. Vansant & Sons Box B, Farragut, Iowa.**

60 VARIETIES Strawberry Plants

Send for Catalog.

D. J. HENRY, LaPorte, Ind.

SEED OATS

I HAVE Early Champion Oats for seed; best for seeding grass with. Do not lodge or rust as late oats do on rich land. Also medium red clover seed, sample on request. **G. Gregory, Ralston, Iowa.**

The PLATTE VALLEY RED CEDARS
GROWN from seed, have no equal for wind-breaks; hardy and vigorous anywhere. Write for price list.
L. E. GARLAND, AFTON, IOWA.
Successor to Garland & Fowler.

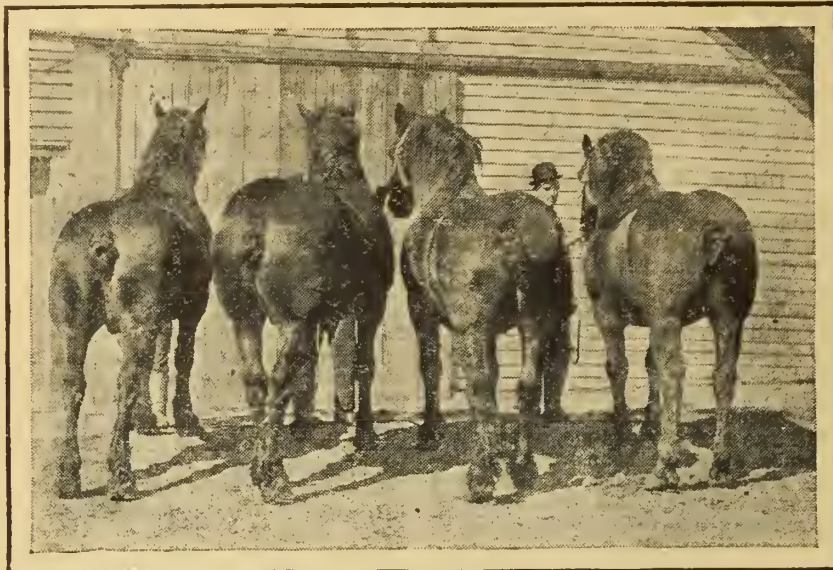
STRAWBERRY PLANTS, 50c per 100; \$2.50 per 1,000. Blackberries, Raspberries, Circular free. **C. J. Mackey, West Liberty, Iowa.**

er so that the whole quantity makes fifteen gallons. Corrosive sublimate is a poison and must therefore be placed where it cannot fall into the hands of children. Immerse the potatoes in this solution for an hour and a half and then spread them out to dry, after which they may be planted

er, resulted in uniformly large crops on these widely different soils.—(Tomato Culture, by Tracy.)

WINDBREAKS AND SCREENS.

A shelter-belt for the home grounds is often placed at the extreme edge



A GROUP OF HEAVY-WEIGHT STALLIONS.

We are glad to present to our readers herewith an engraving showing a group of heavy-weight Percheron stallions, imported and owned by Messrs. E. L. Humbert & Son, of Corning, Iowa. These gentlemen handle Percherons only and the stallions shown in the cut are members of their twenty-ninth annual importation. Long experience and close association with the horse-raising districts of France enables the Messrs. Humbert to buy the best in the market and at prices which are of special interest to their patrons. See the advertisement on page 47 and for any additional particulars write to Messrs. E. L. Humbert & Son, Corning, Iowa.

in the usual manner. The formalin solution is less dangerous and is more commonly used. It is made as follows: Mix eight fluid ounces of commercial formalin (otherwise known as forty per cent formaldehyde) with fifteen gallons of water. The whole potato should be soaked for two hours in this solution, and then dried, cut and planted in the usual manner. Fifteen gallons of either solution will be sufficient to treat twenty or twenty-five bushels of potatoes.

C. R. Abbey.

Nodaway county, Mo.

SOIL FOR TOMATOES.

Large yields of tomatoes have been, and can be, obtained from soils of varying composition, from a gumbo prairie, a black marsh muck, or a stiff, tenacious clay, to one of light drifting sand, provided other conditions, such as drainage, tilth and fertility are favorable. The Connecticut experiment station and others have secured good results from plants grown under glass in a soil of sifted coal ashes and muck, or even from coal ashes alone, the requisite plant food being supplied in solution. But a maximum crop could never, and a full one very seldom, be produced on a soil, no matter what its composition, which could not be, or was not put into and kept in a good state of tilth, or on one which was poorly drained, sodden or sour, or which was so leachy that it was impossible to retain a fair supply of moisture and of plant food.

Of the ten largest yields of which I have personal knowledge and which ran from 1,000 to 1,200 bushels of fruit (acceptable for canning and at least two-thirds of it of prime market quality) an acre, four were grown on soils classed as clay-loam, two on heavy clay—one of which was so heavy that clay for making brick was subsequently taken from the very spot which yielded the most and best fruit—one on what had been a black ash swamp, one on a sandy muck, two on a sandy loam, and one on a light sand made very rich by heavy annual manuring for several years. They were all perfectly watered and drained, in good heart, liberally fertilized with manures of proved right proportions for each field, and above all, the fields were put into and kept in perfect tilth by methods suited to each case; while the plants used were of good stock and so grown, set and cultivated that their growth was never stopped or hardly checked for even a day. These conditions as to soil and culture, together with seasons of exceptionally favorable weather,

of the home yard, toward the heaviest or prevailing wind. It may be a dense plantation of evergreens. If so, the Norway spruce is one of the best for general purposes in the northeastern states. For a lower belt the arbor vitae is excellent. Some of the pines, as the Scotch or Austrian, and the native white pine, are also to be ad-

vised, particularly if the belt is at some distance from the residence. As a rule, the coarser the tree the farther it should be placed from the house.

The common deciduous trees of the region (as elm, maple, box-elder) may be planted in a row or rows for wind-breaks. Good temporary shelter belts are secured by poplars and large willows. On the prairies and far north the laurel willow is excellent. Where snow blows very badly, two lines of breaks may be planted three to six rods apart, so that the inclosed lane may catch the drift; this method is employed in prairie regions.

Persons may desire to use the break as a screen to hide undesirable objects. If these objects are of a permanent character, as a barn or an unkempt property, evergreen trees should be used. For temporary screens, any of the very large-growing herbaceous plants may be employed. Very excellent subjects are sunflowers, the large growing nicotianas, castor beans, large varieties of Indian corn, and plants of like growth. Excellent screens are sometimes made with vines on a trellis.

Very efficient summer screens may be made with ailanthus, paulownia, basswood, sumac, and other plants that tend to throw up very vigorous shoots from the base. After these plants have been set a year or two, they are cut back nearly to the ground in winter or spring, and strong shoots are thrown up with great luxuriance during the summer, giving a dense screen and presenting a semi-tropical effect. For such purposes, the roots should be planted only two or three feet apart. If, after a time, the roots become so crowded that the shoots are weak, some of the plants may be removed. Top-dressing the area every fall with manure will tend to make the ground rich enough to afford a very heavy summer growth.—(Manual of Gardening.)

The difference between cares and privileges may be nothing but different ways of looking at them. To the morbid everything has a dismal hue.

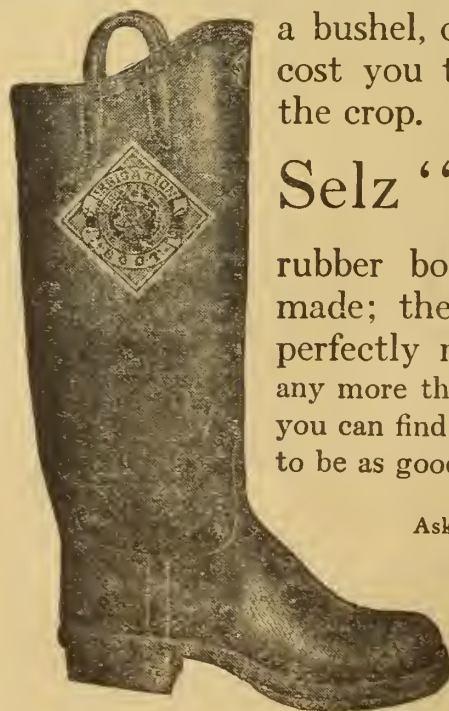
Buying rubber boots is just like buying seed, or fruit trees; the best is always the cheapest. A few cents

a bushel, or a tree, saved may cost you the loss of dollars in the crop.

Selz "Irrigation"

rubber boot is the best boot made; the best Para rubber, perfectly made. It don't cost any more than any other as good; if you can find one; but it costs enough to be as good a boot as can be made.

Ask your dealer for it



Largest makers of good shoes in the world

THE TOWER SURFACE CULTIVATORS

A FAIR TEST. I measured and cultivated 16½ acres of corn ground in sections of 25 and 50 rows each across the field. I plowed the 50 row sections with a Tower Surface Cultivator and the 25-row sections with double shovels—giving the entire field three equal cultivations. The 11 acres, or ⅔ of field, plowed with the Tower plow produced 15 loads of corn weighing an average of 27 bushels and 5 lbs. per load, and the remaining ⅓ of field produced 5½ loads weighing an average of 25 bushels and 50 lbs. per load. All loads filled just alike; rows 60 rods long took 9½ rows of the "surface plowing" to make a load and 12 of the "shovels" rows. I would not exchange the Tower Cultivator for any plow I ever saw.

Above statement attested by affidavit of E. M. Ashley, Jr., Town of North Fork, Gallatin Co., Ill.

Send for free "Treatise on Corn Culture" to manufacturers.

The J. D. TOWER & SONS CO., 40th St., Mendota, Ill. ONE RIGHT WAY



OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

FRAUDULENT TRANSACTIONS.

When a person sells or otherwise disposes of his property, real or personal, for the purpose of hindering, delaying or defrauding his creditors, to a person who is aware of such purpose, and participates in it, the transaction is null and void as to them, and they may have it set aside.

A debtor, however, has a right to prefer one creditor to another in payment, when it is done openly and fairly, and the law presumes no fraudulent intent from the mere fact of such payment, nor from the fact that the debtor preferred one or more creditors to others.

The debtor's private motives for paying one creditor in preference to others, cannot affect his right to exercise such preference, if the preferred creditor has done nothing improper or fraudulent in securing payment of his claim.

It has even been decided that a transfer of property by a debtor to a creditor in payment of a debt is valid, although such creditor knew at the time of the transfer that the debtor had no intention of paying his other creditors.

A debtor may give a mortgage on his real or personal property, to secure the payment of an honest debt, and if the mortgage is taken in good faith by the creditor as security, it will be valid, although the practical effect of it will be to hinder and delay other creditors, and ultimately defeat them in the collection of their claims. Even where a creditor knows that a debtor is insolvent, he may take property from him in payment of an honest debt, and the transaction will not be deemed fraudulent by the law. But, where a creditor takes property from a debtor in payment of a debt, or a mortgage to secure it, with the intention of assisting the debtor to hinder, delay, or defraud other creditors, the transaction will be held fraudulent, and may be declared null and void.

Where a creditor knows that a debtor is insolvent, and receives from him in payment of a debt, property which greatly exceeds in value the amount of the debt, giving him note for the excess, or paying it in cash, it raises a strong presumption that the transaction is fraudulent; and if the creditor also knows that the debtor intends to hinder, delay or defraud his other creditors, it amounts to a participation by the creditor in the fraud of the debtor, and the transaction will be set aside.

When a debtor is in failing financial circumstances, transactions between him and his wife, whereby he transfers property to her, will be closely scrutinized by a court when the question of good faith is raised by creditors. But a husband may lawfully convey property to his wife in payment of an honest debt, or give her a mortgage to secure payment, although he is in failing circumstances, and she knows at the time that he is largely indebted to other creditors. If they act in good faith, the transaction will be upheld by law.

LAW QUESTIONS CONSIDERED.

MUTUAL TELEPHONE COMPANY—CONTRACT.

A Subscriber, Jamesport, Mo.—A mutual telephone organized in this vicinity, and without incorporating, all the members entered into a written contract, which provided, among other things, that if any member should fail to comply with the contract, the company should give him ten days' notice requiring him to comply, and if then he refused to comply the company might cut him off of the main line, and if he then attached his phone before complying with the contract, he should be fined \$5 by the company. Is such a contract legal?

Answer.—There seems to be nothing in such a contract that is illegal. Parties are permitted to make any kind

of a contract they choose that is not contrary to public policy, and they will be bound by it. The fine mentioned is in the nature of a forfeiture, agreed to by the members.

SALE OF HORSES—PAYMENT.

A Subscriber, Ogden, Iowa.—A sold six horses to B, for which B promised to pay A in money, as soon as he could sell the horses. B sold the horses to different companies in Kansas and Oklahoma. When the horses were sold, B turned over to A notes from said companies instead of cash, claiming the notes were good. The notes were payable in one, two and three years and the companies have refused to pay them, one claiming the horse it bought was not as represented, and the others refusing for various reasons. What steps can A take to get his money for the horses?

Answer.—If A received the notes as absolute payment for the horses, he will have to rely wholly on the parties who made the notes, unless B endorsed them, in which case he can hold B as endorser. If the notes be not paid at maturity, by giving B due notice of their non-payment. But, if A received the notes not as absolute payment, but only as security, and the parties repudiate their obligations, he can ignore the notes and sue B for the money and recover. We think A made a mistake in receiving the notes at all. He should see a good local lawyer and lay all the facts before him.

HUNTING DUCKS—AMBUSH.

An Iowa Subscriber.—(1) Is it unlawful to hunt or kill wild ducks in season, from a pile of willows or a natural drift, used by the hunter for a hiding place on the sand bars of the Des Moines river? (2) What shore blinds or hiding places may a hunter lawfully use with decoys?

Answer.—(1) It is unlawful for any person to kill or attempt to kill wild ducks, from any artificial ambush of any kind, or with the aid of any sneak boat or sink box, or from any sailboat, gasoline or electric launch, or steamboat or any other water conveyance, except as propelled by oar or paddle, or other device used for concealment in the open water, nor use any artificial light, battery or any

other deception, contrivance or device whatever, with the intent to attract or deceive the ducks, except that decoys may be used in hunting wild ducks or geese. This seems broad enough to make any kind of a hiding place or ambush unlawful, but permits the use of decoys. This answers also the second question.

PUBLIC ROAD—MISSING RECORDS.

H. H., Glendale, Iowa.—An early settler here gave three acres of ground for a free burying ground. There was a highway running on one side of it, half being on the burying ground. Ten years later the highway was vacated and for fifteen years there was no road to said cemetery. Then the road was restored to its original line, but as there had been interments made up to the line, the viewers reported that the road sixty-six feet wide should all be taken from adjoining land, as well as

a narrow strip for a hitching place, the owner of the land consenting. Forty years ago the land was first fenced, when instead of giving land for the road as required, the owner refused to give any, and this leaves such a narrow road that great inconvenience is occasioned at funerals. The petition for this road was submitted to the county auditor, but he neglected to do his duty, and now neither the petition nor the viewers' report can be found. The farm has changed hands a number of times, and the present owner refuses to set his fence back or give any land for the road. What can be done about the matter?

Answer.—As the records are missing, about the only way to do now is to establish a road in the regular way, by petition, bond, appointment of commissioner and appraisers, in the usual manner required by law to open a new road.

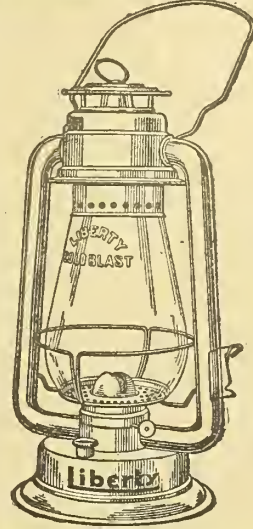
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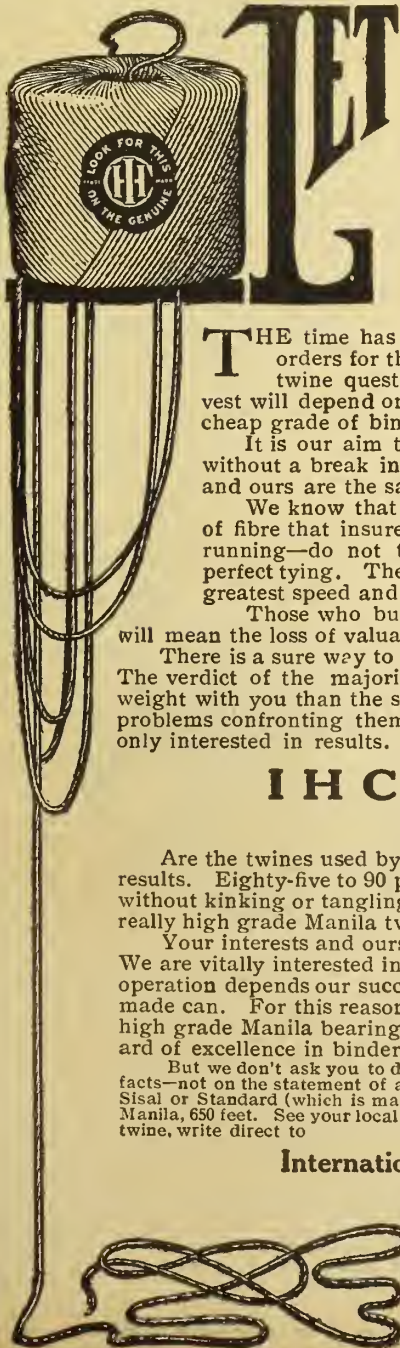
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WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

THE KING SYSTEM OF VENTILATION.

The King system of ventilation consists of two sets of flues. One set provides the fresh air, while the other furnishes an escape for the vitiated air. The inlet or fresh air flues should be placed not more than ten feet apart and located in the exterior walls of the barn; the greater the number the more effective the ventilation, since they enable the fresh air to displace the foul air more rapidly. The outlet may include one or more flues, but should be so located as to provide the quickest means of removing the foul air.

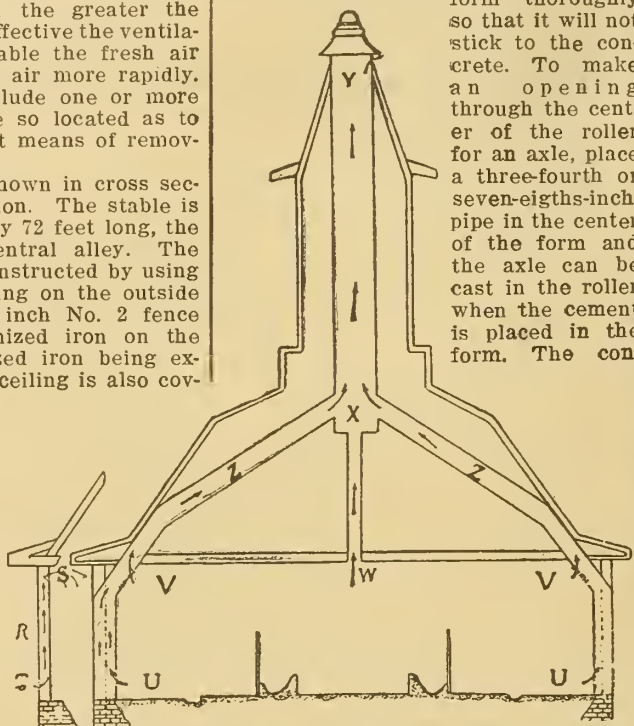
A dairy barn is shown in cross section in the illustration. The stable is some 40 feet wide by 72 feet long, the cows facing the central alley. The walls are hollow, constructed by using paper and drop siding on the outside of studding and 6 inch No. 2 fence flooring and galvanized iron on the inside, the galvanized iron being exposed within. The ceiling is also covered with galvanized iron and the loft above is provided with a rough board floor, thus forming a dead air space. By constructing walls and ceilings in this manner they tend to become non-conductors of heat and cold. All stable walls and ceilings should be non-conductors, otherwise moisture will collect as frost in cold weather and drop as water in moderate weather.

The flues for taking out the foul or vitiated air are two in number, one located midway in each side wall. These flues then pass upward to the loft above, where they meet a central flue or chimney XY. There is also a ventilator flue opening from the ceiling into the bottom of the chimney as shown at W, for more rapid movement of air during the summer, in order to keep the stable cooler. It is not absolutely necessary, and when used in the winter sacrifices a large amount of warm air. The openings into the main flues, VV, are for the same purpose, but are usually kept closed unless the stable becomes too warm. These flues are made of galvanized iron and vary in their dimensions. The central flue is forty inches in diameter and rises fifty feet above the floor. The lateral flues which join the round chimney are 18x24 inches. The flue W is twelve inches in diameter. The openings U, V, and W are provided with registers that may be closed or opened to best accommodate existing conditions within. In cold weather the registers V are kept closed and the foul air taken out at U and W only. These openings at U are the same size as the flues Z, the upper edge being two feet from the floor. This brings the lower edge of the opening within six inches of the floor line.

A CONCRETE ROLLER.

A concrete roller may be made as a hand roller, writes C. R. Abbey, Nodaway county, Mo. One suitable for rolling the garden may be made about twenty-four inches long by eighteen inches in diameter. This size roller weighs about 525 pounds. The roller shown in the diagram is this size and has been used successfully for several years. A form for making a concrete roller is very easily and cheaply made, as shown in figure one. For a roller of the above size cut a piece of sheet iron twenty-four inches by twenty-five and one-fourth inches. The edges must be cut even and must be square.

Make two sets of clamps like the circular forms shown in figure one. The piece of sheet iron cut to the dimensions as given, can now be bent in a circle and nailed to the two wood clamps. Wire the form with No. 16 wire to prevent it from spreading at the joint when the concrete is placed in it, grease or oil the inside of the form thoroughly so that it will not stick to the concrete. To make an opening through the center of the roller for an axle, place a three-fourth or seven-eighths-inch pipe in the center of the form and the axle can be cast in the roller when the cement is placed in the form. The con-



Ventilating system of the cow stable at the dairy barn of the University of Wisconsin. A fresh air intake is shown in section at R, with outside opening, T, and inside opening, S. The single flue, XY, divides below the roof into two arms, UZX, nearly reaching the stable floor at UU. A twelve-inch ventilator, W, opens from the ceiling. The exterior of the upper part is for architectural effect.

crete should be made one part cement, two sand, and four gravel, well mixed with water. The handle for

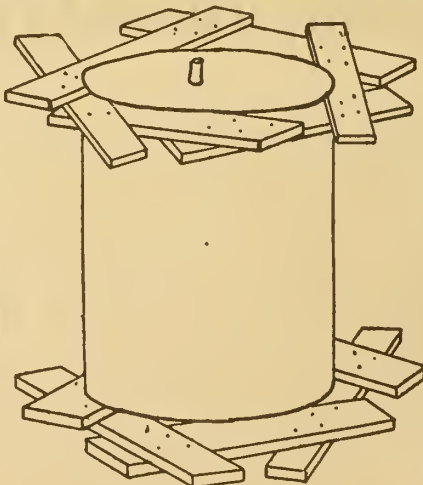


Fig. 1

the roller may be made of three-fourth inch by one inch iron, bent and welded together as shown in the figure.

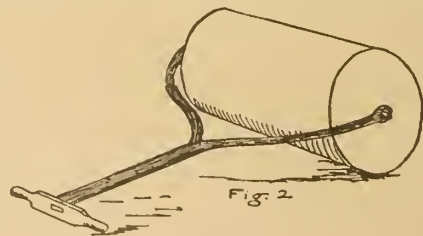


Fig. 2

This roller is heavy enough to thoroughly pulverize all the clods and pack the ground so that it may be more suitable for planting.

Shoeing to Prevent Interfering.

Our experience has taught us that a great many blacksmiths are not able to do as well as they think they can in breaking a horse from inter-

fering. As a matter of fact, it is sometimes a most difficult task.

Figure 1 shows hoof surface of a

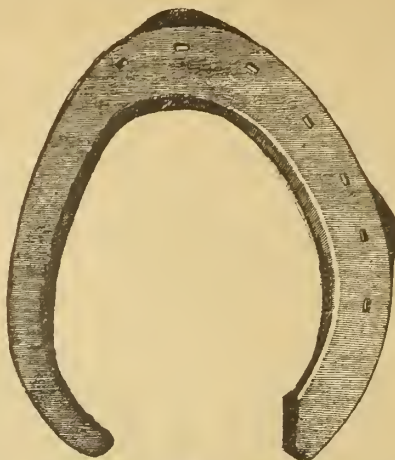


Fig. 1.

right hind shoe to prevent interfering. The inner branch has no nail holes

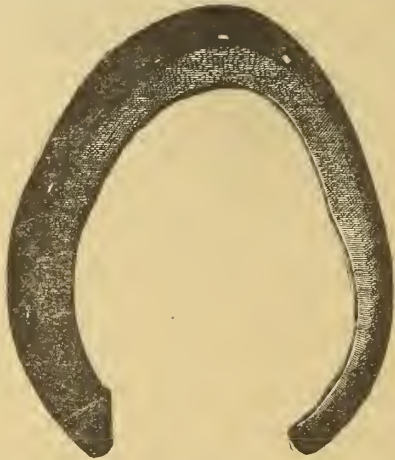


Fig. 2.

and is fitted and beveled under the

hoof. Note the number and position of the nail holes, the clip on the outer side-wall, and the narrowness and bend of the inner branch.

Figure 2 shows ground surface of shoe shown in the previous figure. The inner nailless branch has the thickness of the outer branch plus its calk, so that the inner and outer quarters of the hoof are equi-distant from the ground.

In discussing the value of sheep on a country place, their service as land cleaners should not be ignored, says a writer in Country Life. They like pasture grasses, but they seem to like weeds and bushes even better for browse. They will often clean up an old field in a year or two, so that what was a tangle of unsightly weeds and shrubs will appear a smooth-shaven lawn. Angoras are simply wonders at this sort of thing, but the common, everyday sheep of the ordinary breed will do mighty good work, if you confine her to her job and put in enough of her. Five years ago one small pasture of mine was a veritable chaparral of thorn bushes and solidago. I set the ewes at it, and today it's as pretty a bit of sward as there is on the ranch—bushless and weedless and thick turfed.

"A stranger rode up to a farmer's house," says a Western Kansas paper, "and said: 'I understand you have a fine cow. What will you take for her?' 'Look here,' answered the farmer, 'are you a tax assessor, or has that cow been killed on the railroad?'"

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PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office

SYMPTOMS AND TREATMENT.
GARGET.
I have a red cow, six years old, milked first at the age of three years, and was an easy milker. She gave a fair amount of milk, but near the end of the summer the milk from one teat became thick and sometimes bloody. A neighbor said to let the calf run with the cow, but last spring when she came fresh the teat was swollen and we could get nothing from it but a very thick substance, and that with the aid of a milking tube. The calf was again allowed to run with the cow, but it was unable to get milk from that one teat. She will be fresh soon and that teat is larger than the others. Is there any cure for it, and what is the cause?

The quarter became infected and pus formed. The result is that the quarter has lost its function and there is no cure. The milk-secreting function cannot be restored. It always is well to test such cows to make sure that tuberculosis is not present. If she is free from that disease we would foment the udder with water twice daily and rub the affected quarter thoroughly with camphorated oil to stop all secretion.

ITCHING SKIN.
I have a five-year-old bay horse, weighing about 1,400 pounds, that has some sort of itch in his mane. The skin seems dry and scaly, and when brought into the stable after he has been worked and is a little warm, he will immediately begin to rub. He has rubbed out part of his mane, and the hair from one side of his neck, about the size of the palm of a hand. He has been acting so for about six or eight months. He eats well and seems in perfect health otherwise. I have never seen him rub or show any sign of irritation except when brought in warm. Have fed him sulphur and applied a mixture of lard, sulphur and kerosene to the mane. This seems to help some, or at least to relieve him for a time, and the hair is coming in on the bare spot. What would you advise me to do for him, and is there any danger of the other horses getting it?

The disease is not contagious. Cut the grain ration in half or if you are feeding corn change to oats and bran, and at first feed lightly but, of course, do not let him weaken or run down badly at work. Wash the affected parts thoroughly clean with soap and hot water. When clean and dry paint sore part with tincture of iodine; then wait three days and after that rub in iodine ointment for three applications at intervals of two days. Then stop the iodine ointment and use sulphur ointment daily. Do not let him stand idle in the barn when he can be outdoors for exercise during the daytime. If the trouble persists have him clipped.

BOG SPAVIN.
I have a valuable horse that has a small puff or bog spavin on his left hock on the inside. The horse is five years old. What can I do for him to remove it?

Such distensions of the synovial bursa of the joint do not respond satisfactorily to treatment. Patient hand rubbing, together with applications of iodine ointment every other day, do about as much good as any line of treatment we can suggest. Give the massage and rubbing two or three times a day.

LAMENESS.
I have a fine bay brood mare, sixteen years old, that has raised a colt for me almost every year. She is in good condition and has no corns, but has been very lame in the left front foot since August, 1909. In September I found a small piece of thorn in the lower end of the frog, but she still continued lame. I tried shoeing her, but it did no good, and then I examined her foot again and found a small particle of matter, but no more thorn. She is still lame. What would you advise me to do? Would it be a mistake to poultice it? Would it make her hoof soft so as to cause trouble, and what do you think is her trouble?

Do not apply poultice. Cut out all loose or under-run horn of sole at place where pus was found, then swab with a 1-500 solution of corrosive sublimate and at once cover with boric acid, cotton batting and bandage. Renew the dressing daily until wound is sound. Clip hair from hoof-head and blister with cerate of cantharides at intervals of three weeks until lameness subsides.

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POULTRY

This department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

DEAD IN THE SHELL.

To the Editor of The Homestead:

The following communication has been received from a subscriber at Colfax, Wis.:

I should like to know the cause of so many of my chickens being dead in the shell. At least 50 per cent of each hatch die in the shell. This was my incubator experience last year. Some of the full-grown chicks pipped, while others did not.

There are various causes for the large mortality spoken of. Sometimes our fat breeding stock will cause it, while again it may be an irregular temperature. Either too low or too high a temperature is sure to result fatally, not only by the dead in the shell, but also by weak chicks after they are hatched. Too much stress cannot be placed upon this. Even though you get but 50 per cent hatches, it would not be so bad if you could only raise them, but where there is a large mortality in the shell it follows that you raise but few of the ones that hatch. So it is the large hatches that are the most profitable all the way through. First, test your machine by putting in several thermometers, so as to note the variation in temperature in different parts of the egg chamber. This is very important and if defective it must be remedied before hen fruit is entrusted to it. When all these factors are correct the next problem is the running of the machine. The proper evaporation of the egg is the most important of all and if this is not seen to as it should be it is sure to result as our correspondent states. A freshly laid egg contains about 20 per cent more moisture than it needs to mature a chick. In the natural practice this moisture gets away normally without any assistance from any one. The oily secretion from the fowl's body as it comes in contact with the egg, closes up the pores at about the right time, so that the chick is of normal size when the time comes for it to break its way through the shell. Now in the artificial practice we must stop the evaporation at just the right period so as to get the chick about the right size. Every one knows that it is not practical to do as the old hen does, i. e., impart an oily secretion to the egg. It is a delicate process that no one can perform, but what we can do is to vaporize the air, which practically brings about the same results. First, it is necessary to have your ventilation under perfect control and use only enough to evaporate this 20 per cent of excessive moisture, as stated above. Use your egg tester from time to time so as to get an average of the air sack of at least four or five eggs. The reader will see that this ventilation, if properly done, carries off this moisture and judgment must be used in its application so as not to carry it too far, and thus get the eggs too dry. You can detect this very easily with the tester, as the air sack will show up too large, which must not be. But when this moisture has evaporated which should be on the fourteenth day, then and then only should moisture be used, and then do not apply it to the eggs but to the air by simply using wet sponges in the vacant space in your egg chamber. Keep these sponges wet until the hatch is well under way. After that you usually have too much moisture. Generally speaking, if a machine is constructed as it should be so that you have your ventilation under control, no moisture is needed until the chicks pip the shell.

Now the reader will probably ask what this has to do with the dead in the shell. It is just this: Suppose, for instance, that you use moisture and little or no ventilation, the chick is going to absorb into its growing body all of that excessive moisture

which will cause it to be so large that at hatching time it is literally packed inside the shell and cannot do as it must to get out, i. e., make a circumference on the inside of the egg. It must do this in order to break its way forth into the world. Sometimes it has to turn several times before it gets the shell sufficiently cut away so it can straighten out from its prison walls. This may seem scientific to our readers, but it is a simple process and must be carried into practice where incubators are employed to do the hatching.

C. E. Matteson.

THE TWO HUNDRED-EGG HEN.

To the Editor of The Homestead:

"I know that a 200-egg hen is just as likely to breed a thirty-egg hen as she is to breed a 200-egg hen, but somewhere, in this scheme of good and bad, there is a 200-egg hen that has the prepotency to stamp it on her race."

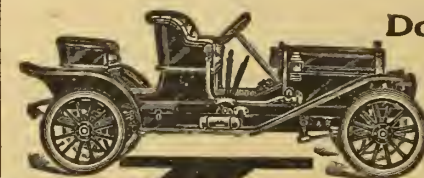
I was deeply impressed by the above quotation, from one of the strongest articles on the subject that it has ever been my privilege to read, and so pass it along. Mr. Van Orsdale, in the December number of "Poultry," practically tells it all in the above text. A bright little woman of my acquaintance, who for a number of years has been breeding an all-purpose variety of pure-bred stock, disgustedly declared, "I verily believe, to meet the requirements of customers, I will have to breed one pen for size, one for eggs and one for exhibition." Overdone perhaps, but there is much truth in the assertion, nevertheless.

Immense egg yields do not come by chance; prolific laying is a characteristic that can be bred into a flock of fowls just the same as can any other feature, and if we are fortunate enough to possess a hen that has nearly attained the 200-egg mark, it is up to us to keep her for breeding purposes, even though she may be short on some fancy point, or what is probable, size.

Several years ago I received a let-

ter from a poor boy in far-off Maine. The little soul was bankrupted both in health and financially. An orphan, he lived with his aunt and eked out a scanty living from a five-acre tract of rough ground. He wrote me that he had a small flock of mixed fowls from which he had rather indifferent results. Chancing to read in some journal what people were doing with pure-bred stock, he wished to invest his small savings—\$3—in eggs for hatching. His aunt was an elderly woman, wholly unused to modern methods, and she vigorously opposed the plan. I wrote that boy a long letter that night ere I slept. You see I have four boys of my own, and thoughts of the chubby, sleeping little rascals being similarly situated did not allay the heartache the child's letter had caused. I sent him eggs from different yards, plainly marked, and directed him how to mark the chicks, and later how best to mate up yards from the stock he raised. He wrote me regularly, and I kept in touch with his flock, though fully 2,000 miles away. As soon as he possessed stock worth while he began to care for and to feed them scientifically. Some self-feeders were made, crude, of course, but built on the same principle as those used at the Maine Experiment Station. Living so closely with his fowls he soon perceived that some of his hens were doing the laying and some there were that were perfectly willing they should. The next thing in order was to build—cobble, he called it—some trap nests. He yarded the best laying hens the following season, as well as their pullets, and kept all the eggs for his own use. Now, whether he might have claimed a "200-egg strain" I know not, but I do know this: By persistent use of the trap nests, at the end of four years he proudly sent me a basket containing fifty eggs from hens that had laid from 197 to 209 eggs the previous year.

Most assuredly there is a 200-egg hen "that has the prepotency to stamp it on her race," and why not?



Powerful, Silent Engine

Don't Buy Till You Get Our Big-Value Book

Write today for all facts and figures to prove 1910 Black Crow Models the greatest automobile value of the year. The car you need and the car you will get if you investigate thoroughly.

THE BLACK-CROW

Biggest for Price—and in Value. Powerful, Silent Engine. Most simple, durable, economical car of 1910. Anybody can drive it with complete control and absolute safety. 6 styles for 1910—\$1,000 to \$1,750. One to suit you exactly. Handsome design—a leader in any company. Write for Catalog A139 now—to save \$500.00 to \$1000.00 on your car.

BLACK MANUFACTURING CO.,

215-217-219 W. Ohio St., CHICAGO, ILL.

\$755 Buys the Best 140-Egg Incubator Ever Made

\$4.50 Buys the Best Brooder Both Incubator and Brooder, Ordered Together—Cost You Only \$11.50—Freight Prepaid

WHY PAY MORE? Investigate—send your name and address today, the easiest way, by postal or letter. I tell you the prices right here—and how my machines are made. You can have 30 or 60 days' trial on both incubator and brooder—and I'll send all money back if you return the machines to us as unsatisfactory. Be sure to send for my illustrated, free booklet, "Hatching Facts." But, if in a hurry, you are perfectly safe in ordering right now from this ad. Thousands do this way every year. I guarantee to ship all orders sent from this ad on day received—(from warehouse nearest you, freight prepaid.) No disappointments.

Order a Complete 140-Chick Belle City Hatching Outfit. Send only \$11.50

BELLE CITY Incubators and Brooders



140-Chick Belle City Brooder Only \$4.50

for both Incubator and Brooder—freight prepaid when ordered together. You'll surely need the brooder, too. So make the savings. Satisfaction Guaranteed or money back. No risk, however you order. The editor of this paper knows me to be responsible—I've advertised in this paper for many years and treat my customers liberally.

I've always given my customers more for their money than any other incubator manufacturer in the world—that's why we do so much business.

Belle City Incubators will hatch more chickens—under the same conditions—than any other incubator made, or your money will be refunded. This I guarantee. Double walls—dead air space all over—copper tank and boiler—hot-water heater—best regulator—deep, roomy nursery—strong egg tray—high legs—double door—and everything that's any good on an incubator—all in the Belle City. High-grade thermometer—egg tester—burner and safety lamp included. The Belle City Brooder is the only one having double walls and dead air spaces. I guarantee it to raise more healthy chicks than any other Brooder made. Hot-water top heat—large, roomy, wire runway yard, with platform—metal safety lamp and burner.

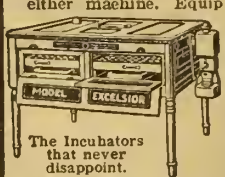
Complete Hatching Outfit Only \$11.50

Over 50,000 machines in use—all doing perfect work. The Belle City should be your choice. Send your order now or send postal for "Hatching Facts" booklet and full particulars. Don't pay more than my price. No machines, at any price, are better hatching or brooders.

J. V. ROHAN, President
BELLE CITY INCUBATOR COMPANY
Box 52 Racine, Wis.

Hatch Chickens By Steam

Make the hatching of your 1910 chicks sure and easy. Stahl's Excelsior or Wooden Hen Incubators are not experiments. They are so sure that a fertile egg means a live, healthy chick. You get real incubator value in either machine. Equip early, and grow and market your early-hatched broilers when prices are high. Early money is the biggest. Write to-day for free catalog.



The Incubators that never disappoint.

GEO. H. STAHL, Box 7 V Quincy, Ill.

RAY Incubators Save Oil

BURN one gallon of oil where others burn 3 to 5. Lamp filled once during the hatch; others filled every day.

Write for Free Book

giving all the facts. X-Ray Incubators differ widely from all others. Enamel-steel-covered; Rosewood finish. They control the flame, burning high or low; no heat or oil wasted. Lamp in center; glass door on top; perfectly even heating; perfect ventilation. The only really different incubator. Book explains why it's better and surer than others. Write today to

X-RAY INCUBATOR CO., 18th St., Wayne, Neb.

Try Mine FREE

I still have a number of my fine QUEEN Incubators to put out on trial. Drop me a line. I'll send you my new Incubator Book for you to pick out the size you want. I want to show you the incubator that outatches them all and that's so well made. I prepay the freight and guarantee it for 5 years. Write today to



Send Us a Postal for a Price

Just your name and address on a postal brings special low prices on all sizes of

RACINE Incubators and Brooders—guaranteed to hatch highest percentage of eggs. Liberal Trial Plan. Best Incubator Proposition on the market. Postal brings all printed matter and special prices at once. Address **RACINE HATCHER COMPANY** Box 135, Racine, Wis.



What is there about a chicken so different from other animals, that what is applicable to them will not hold good with the fowl tribe? Perish the thought. Give the much-abused chicken the same scientific treatment as other animals or vegetables even, and note results.

Mrs. Minnie G. Stearns.

Champaign county, Ill.

HEAD LICE.

To the Editor of The Homestead:

A Missouri subscriber sends the following communication:

My little goslings died before and at a week old. They hatched all right and were quite strong and looked healthy when hatched. I feed them when forty-eight hours old, but some will not eat, and others, very little. When three to five days old they are sleepy and lazy, with eyes half closed, and don't want to move. They get a sort of white bowel trouble, something like lime, at a week old or a little later. I tried all kinds of medicine, but nothing will help them. I raised only three out of fifty goslings last year. I got four geese and one gander from my neighbor, who raised forty-five goslings from these very same geese. That is why I bought them, because I had had trouble with my first geese. But I still lose them, and this makes the third year that I have done so. The geese have a big pond to swim in. I have tried dividing them and doctoring them in different ways, but in vain.

Our correspondent has made a great mistake in not stating what he fed the goslings, but as they eat but very little, it probably has nothing to do with the case. He should also have stated how he brooded them, whether by their natural mother or with common hens. I shall assume that they were brooded with common hens and thus got covered with the head lice. The drowsy appearance is an indication of this and precaution should have been taken in advance by cleaning the mother. A slight application of sweet oil and kerosene in equal parts is good for this. In fact, extra precaution should always be taken against vermin, in all natural brooding. The proper food for goslings should be mostly grasses. Do not try to get them out too early and when hatched get them onto a green pasture at once. Barley sown very thickly is the best, but do not keep them on the same pasture too long. Change to other yards, letting the spring rains freshen up the old pasture. An occasional hard-boiled egg will be relished, but their main diet should be succulent grasses. Our correspondent likewise made a mistake in mating four females to one male. Infertile eggs are sure to be the result. Two females to one male should be the limit, and it is quite common even then for the gander to refuse to recognize but one of them. Stock should always have the opportunity of choosing their mates about February first, each year, and it is very seldom that a gander ever deserts his mate when once chosen. Even for a number of years they will choose the same mates for each succeeding year. Goslings need no medicine of any kind; they are easy to raise, but green grasses should be their chief diet.

A Subscriber.

There is only one animal worse than the fence-breaking steer, and he is the fence-breaking horse. The fence-breaking horse is a most persistent brute, besides is liable to ruin itself by its persistency in tackling any and every fence.

POINTERS.

—Single Comb Brown Leghorn eggs are offered for sale by Mrs. H. C. Lambert, of Anthon, Iowa, as advertised on page 24.

—Barred Plymouth Rocks of fancily-bred strains are kept by Mr. A. O. Lokken, of Alta, Iowa. He advertises eggs for sale on page 25.

—A new advertiser in these columns is Mr. L. E. Morgan, of Ames, Iowa. He breeds White Plymouth Rocks, Toulouse geese and Mammoth Bronze turkeys and sells eggs for hatching at farmers' prices. See page 25.

—Mrs. H. A. Wohlsdorf, of Lawler, Iowa, advertises on page 24 that she has eggs from Single Comb Black Minorcas. She writes as follows: "I have sold all the Single Comb Black Minorca cockerels I advertised and had more orders than I could fill. I thank The Homestead for finding buyers. My birds are of the best, with large, red combs, white ear lobes, and are excellent layers. I received many words of praise from those who bought cockerels from me. I will sell eggs at rea-

sonable prices and guarantee satisfaction to all customers."

—Mr. Chas. W. Faris, of Iowa Falls, Iowa, sells Silver Laced Wyandotte eggs at the prices named in his advertisement on page 24.

—Reasonable prices are quoted on Silver Laced Wyandotte eggs in the advertisement of Mr. S. R. Young, Greenville, Iowa, on page 24.

—Silver Laced Wyandotte eggs, best in the world, reasonable prices. Order from Mr. John Chase, of Greeley, Iowa, as per advertisement on page 24.

—Mr. E. Radebaugh, of Rippey, Iowa, advertises eggs for sale from Single Comb Rhode Island Reds at the prices named in his advertisement on page 24.

—Dr. J. E. Guernsey, of Olin, Iowa, announces in an advertisement on page 24 that he has for sale a splendidly-bred Scotch Collie pup and it is cheap at \$10.

—Barred Plymouth Rock eggs are offered for sale by Mrs. J. L. Myers, of Almont, Iowa. See her advertisement on page 25 and note the liberal prices quoted.

—Miss Adella Smith, Route 4, Creston, Iowa, sells Barred Plymouth Rock eggs at the rate of \$1 for fifteen or \$4 per 100. See her advertisement on page 25.

—Bargain prices in Rose Comb Brown Leghorn eggs are offered for sale by the Messrs. Plowman Bros., of Douds, Iowa, as noted in their advertisement on page 24.

—Mr. J. S. Watson, Vail, Iowa, is offering eggs for sale from Illinois State Fair prize-winning Buff Wyandottes and sends a free catalog as per announcement on page 24.

—Mr. E. C. Rice, of Gray, Iowa, makes a change in his advertisement on page 25 that will be of interest to those who want to buy Buff Plymouth Rock eggs for hatching.

—Black Langshan eggs are offered for sale by Mr. H. M. McKeen, of Sac City, Iowa. The prices are extremely low, not only for single sittings, but for incubator lots of 100.

—Buff Plymouth Rock eggs for hatching may be bought at the low rate of \$1 per sitting from Mr. O. M. Woody, Route 3, Newton, Iowa, as per advertisement on page 25.

—Mrs. H. E. Brown, of Corning, Iowa, advertises on page 25 that she has eggs for sale from Barred Plymouth Rocks, White Plymouth Rocks, Silver Spangled Hamburgs and Embden geese.

—Mrs. J. E. Le Gassick, of Earlville, Iowa, breeds White Wyandotte and Single Comb Buff Orpington chickens. She sells eggs for hatching at the rates named in her advertisement on page 25.

—Mr. C. H. Drake, of Hazleton, Iowa, announces in an advertisement on page 24 that he has eggs for sale from Single Comb Rhode Island Reds and three grand matings of Barred Plymouth Rocks.

—Mrs. Vick Willis, of Saline, Mo., has an advertisement on page 25 of this issue in which she is quoting prices on White Plymouth Rock and Black Langshan eggs. She also quotes prices on Bourbon Red turkey eggs.

—Mr. E. S. Dyas, of Bellevue, Iowa, is offering eggs for hatching. These are from Mammoth Pekin ducks and White Wyandottes. He can also spare a few White Wyandotte cockerels and pullets, scored stock. See page 25.

—The new advertisement of Mrs. W. H. Hudson, of Lake City, Iowa, will be found on page 24. She offers to sell Single Comb Brown Leghorn eggs from scored birds at the low rate of seventy-five cents for fifteen or \$3 per 100.

—Mr. L. D. Wells, of Morrisonville, Ill., advertises on page 25 that he is now ready to furnish Barred Plymouth Rock eggs for hatching. Mr. Wells makes a specialty of heavy-weight fowls and this should be of interest to farmers generally.

—Those who wish to buy eggs for hatching from Single Comb White Leghorns or from White Cochins Bantams should send for the circular of Mr. C. H. Drake, Hazleton, Iowa. His advertisement will be found in the Leghorn department of this paper on page 25.

—Mr. Sterling Martin, of Melrose, Iowa, breeder of White Plymouth Rock chickens and Mammoth Bronze turkeys, whose advertisement has been running in this paper, writes us that he has had good sales from his advertisement and that all surplus stock has been disposed of.

—Margaret C. Daly, of Anamosa, Iowa, announces in an advertisement on page 24 that she still has for sale a few choice Black Langshan cockerels at the low price of \$2 each or six for \$10. She also sells eggs for hatching and quotes prices for same in the advertisement.

—Mr. F. Nordstrum, of Aurelia, Iowa, is offering White Plymouth Rock eggs for sale in his advertisement on page 25. In sending copy Mr. Nordstrum writes: "I have an excellent lot of White Plymouth Rocks on farm range. The birds are large, pure white and excellent layers."

—Mrs. F. W. McIntyre, of Red Oak, Iowa, breeder of Rhode Island Reds, both Single and Rose Comb, writes under recent date saying: "I have added the Tuttle stock of Rose Comb Rhode Island Reds with a show record as well as an egg record. I have 200 chicks a week old and 1,000 eggs set. My incubator test showed 90 per cent of eggs fertile. In February one pen showed 98 per cent hatch and another 100 per cent healthy chicks. I have had no hatch below 95 per cent. I have never had any disease of any kind in my flocks. I breed for show qualities as well as great laying qualities and

size." Mrs. McIntyre's new advertisement will be found on page 24.

—Mrs. Sophia Rader, of Laurel, Iowa, whose advertisement of Single Comb Rhode Island Red eggs will be found on page 24, has in her yards some good high-scoring birds, excellent in color and in perfect health and thrift.

—Those who do not care to bother with hatching chicks will be interested in the advertisement of the Highland Poultry Farm, Hazleton, Iowa, on page 24 of The Homestead, in which it states that baby chicks of the Single Comb White Leghorn variety will be sold in numbers to satisfy patrons.

—That most popular breed of poultry, the Single Comb Rhode Island Reds, are bred in their purity by Mr. L. G. Johnson, of Steamboat Rock, Iowa, as advertised on page 24. He offers eggs for sale at most reasonable prices and will take pleasure in giving any required information concerning his stock.

—Mr. M. E. Page, of Madrid, Iowa, breeds Single Comb White Leghorns and advertises on page 24 that he has eggs for sale. He is making a special offer of twenty eggs for \$1. This is a bargain rate and those who want to take advantage of it should forward their orders without delay.

—Mr. Chas. G. Jackson, of Prescott, Iowa, is offering selected fertile eggs from special egg strains of Rose and Single Comb White Leghorn fowls. These are vigorous birds, mated for egg production and the prices named in the advertisement on page 24 are as low as the same quality can be procured for anywhere else.

—Mr. D. Rich, of Mt. Pleasant, Iowa, is offering eggs for sale from Rose Comb Rhode Island Reds. The prices he quotes in his advertisement are quite reasonable. He guarantees stock to be satisfactory. They are prize winners from the Missouri State Show, Iowa State Show and Iowa State Fair.

—Messrs. H. C. Saunders & Son, of Montezuma, Iowa, advertise on page 25 that they have for sale Barred Plymouth Rock eggs from fowls of the Hawkins, Bradley and Thompson strains. These fowls are direct descendants of leading prize winners and are high class in every respect. Note the prices in the advertisement.

—Mrs. L. Mather, of Clarksville, Iowa, breeds Rose Comb Brown Leghorn chickens, Mammoth Pekin ducks and White Holland turkeys. She offers eggs from each for sale in her advertisement on page 25. She writes that her Leghorns are an extra fine lot of the best laying strains. Her ducks weigh from ten to twelve pounds each.

—Mr. Carl J. Hedberg, of Boxholm, Iowa, whose advertisement of White Wyandottes and Buff Orpingtons appears on page 25, writes us, saying: "I have some extra good, healthy birds and my price on eggs is very cheap considering quality of stock. I know that my stock is as good as any for which others are asking from \$5 to \$10 per sitting."

—Mr. S. S. Krebill, of Donnellson, Iowa, says he has bred the Barred Plymouth Rocks exclusively for the last seven years. They have the range of the farm, are not a graded-up flock, but are all strictly pure bred, of various leading strains. They are good layers. He has no near neighbors and, consequently, he can keep them pure bred. See price of eggs in advertisement on page 25.

—Mr. Frank Chalupa, of Pleasant Plain, Iowa, breeder of Single Comb Rhode Island Reds, offers eggs for sale in his advertisement on page 24. He has three specially mated pens, consisting of prize winners at Cedar Rapids and other shows. His range flock contains carefully selected pullets and hens as well as a few scored hens and pullets. All are bred from three specially mated pens last year headed by scored cockerels of extra good quality, shape and color. Orders should be forwarded early.

—Mr. A. A. Worthington, of Media, Ill., makes a specialty of Rose Comb Rhode Island Reds and is offering eggs for sale in his advertisement on page 24. He has thirty Rose Comb Rhode Island Red pullets headed by stocky birds of the Red winning strain. They are in good, healthy condition and are making a good record as layers. They are of fine disposition and easily kept in confinement. There is nothing lazy about the Reds. They are the first out in the morning and the last in at night. Mr. Worthington makes special rates for incubator lots.

—Mr. W. T. Wilkinson, of Rosedale Farm, East Des Moines, Iowa, offers eggs for hatching from White Plymouth Rocks as advertised on page 25. He writes concerning his stock as follows: "For the past nine years I have been breeding and building up a strain of White Plymouth Rocks that would please the farmer and at the same time be a strain of heavy winter egg producers. I have used the trap nest constantly and by culling out all undesirable birds I have today in my breeding yards five of as fine pens for this season's egg trade as can be found in this country. As egg producers they are superb. Homestead readers will make no mistake in sending me their orders,

as they will get a square deal every time."

—Mr. Sam Sterling, of Knoxville, Iowa, whose advertisement will be found in our Single Comb Rhode Island Red department, announces that he has some large, well-colored cockerels to sell. He is also ready to furnish eggs from a flock of large, fine colored birds that have the range of the farm.

—Mrs. E. C. Turner, of Griswold, Iowa, has bred White Plymouth Rock chickens exclusively for a great many years and has been successful in winning the best premiums at many county fairs. She believes she has one of the whitest flocks in existence and is prepared to furnish eggs which will produce birds of the very highest order of excellence. See the low prices quoted in her advertisement.

—The advertisement of Messrs. Palmatier & Son, of Greene, Iowa, will be found on page 24. These gentlemen breed Silver Laced Wyandottes and write of them, saying: "We have an exceptionally fine lot of chicks as to size, quality and markings. They have unlimited farm range, which will insure fertility and strong, vigorous chicks. Satisfaction is guaranteed and prices are very reasonable."

—Mrs. John A. Miller, of Creston, Iowa, places an advertisement of her Single Comb Buff Orpington eggs on page 25. These are from pure-bred Buff Orpingtons of the Cook & Sons strains. They have been line bred for over five years. The flock is extra good utility stock. Some are prize winners, but Mrs. Miller has not the time to pen them separately; she just lets them have the run of the farm. The prices she names are quite reasonable.

—Miss E. C. Powers, of Osage, Iowa, announces in an advertisement on page 24 that she is prepared to sell eggs from Rose Comb Rhode Island Reds. Here is a strong, vigorous flock and the prices which she names are quite liberal. She writes us that she has a handsome flock of farm-raised fowls, consisting of scored and unscored birds. She has been breeding them for the past four years and has spared no pains in making her flock as good as can be had.

—Mr. R. G. McDuff, of Monroe, Iowa, breeds Black Langshan chickens exclusively and offers eggs for sale as per advertisement on page 24. In forwarding his order Mr. McDuff writes as follows: "I never had as good success in selling poultry as I have had in the last two years by advertising in The Homestead. I sent back over \$80 in money orders and could have sold \$200 worth more if I had had the birds. You can count on me advertising in The Homestead as long as I am in business."

—Mr. S. V. Latham, of Montezuma, Iowa, breeds Barred Plymouth Rock chickens and Mammoth Bronze turkeys as advertised on page 25. He sends a free catalog to all those who request it. Mr. Latham has been breeding Barred Plymouth Rocks for fifteen years and believes his stock at the present time to be as good as ever before. He has established an excellent line of customers and one of these, Mrs. M. A. Quell, of Osborn, Mo., writes a letter accompanying a recent order, saying: "I have been a customer of yours for eight years, every year or two sending you an order. I believe you will deal with me as fairly as you have in the past."

—Mr. L. L. Woods, of Grinnell, Iowa, breeds Buff Plymouth Rocks as advertised on page 25. He writes concerning his flock as follows: "The Buff Plymouth Rock eggs I am offering are from a flock that have been bred and selected especially for their capacity as all-the-year-round layers. They have produced eggs in varying quantities every day, winter and summer, for the past six years. At the present writing we are getting an average of about sixty-five eggs per day from 100 hens. We cull non-layers and shy breeders closely and by selecting our breeders from among birds that will hatch early and begin to lay early in the winter, we are able to emphasize this feature of our flocks very strongly. We try to breed our birds as near to the standard as possible. Last year we shipped eggs to five different states and in almost


Poultry Supplies

As we are the largest as well as the oldest dealers in poultry supplies west of the Mississippi River we can offer many items of interest to poultry breeders. We also handle thoroughbred poultry and EGGS FOR HATCHING. Don't fail to send for a copy of our new illustrated price list. Complete catalog of seeds, plants, etc., also free if you mention this paper. Write at once.

Iowa Seed Co., Dept. 1 Des Moines, Ia.


RAYO INCUBATOR

SAVES Money, Labor, Oil.
Note: 1st—Double heating system gives equal radiation.
2nd—Turn eggs without removing tray.
3rd—One filling of oil tank for entire hatch. 70 day trial guarantee. If not as represented return and money refunded.
Freight prepaid. Write for Free Book.
The RAYO INCUBATOR CO., Burt St., Blair, Neb.



125 Egg Incubator and Brooder

Both For \$10



Why pay more than our price? If ordered together we send both machines for \$10.00—freight paid east of Rockies. Hot water, double walls, dead-air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery underneath the egg-tray. Both Incubator and Brooder shipped complete, with thermometers, lamps, egg testers—all ready to use when you receive them. All machines guaranteed.

Incubators are finished in natural colors showing the high grade lumber used—no paint to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money. It pays to investigate the "WISCONSIN" before you buy. Send for the free catalog today, or send in your order and save time.

WISCONSIN INCUBATOR CO., Box 105, Racine, Wis.

every case customers were well pleased."

—Read the advertisement of Mrs. Clyde Nelson, of Birmingham, Iowa, offering Single Comb Brown Leghorn eggs for sale on this page.

—Farmers who wish to buy Barred Plymouth Rock eggs for hatching should note the advertisement of Mrs. Chas. Murphy, of Dexter, Iowa, which appears on page 25. She sells eggs at remarkably low prices from fowls of high-scoring stock having farm range, heavy bone and with all the fine points that go with strictly first-class Barred Plymouth Rocks.

—Barred Plymouth Rock eggs from three special mated yards of large hens and pullets are offered for sale by Mrs. J. O. Becker, of Chariton, Iowa, at the particularly attractive prices named in her advertisement on page 25. She writes us that her Barred Plymouth Rocks are at least 25 per cent better than they were last season. She believes that her patrons cannot fail to secure fine breeders and exhibition birds from the eggs she sells.

—Mr. Robert Hunt, breeder of Barred Plymouth Rock chickens and Mammoth Bronze turkeys, of Earlville, Iowa, makes a change in his advertisement as it appears on page 25. He writes: "We have had a good trade from our advertisement in The Homestead. We have left a very few extra good Barred Plymouth Rock cockerels. We are offering eggs this season with the understanding that should any orders not prove satisfactory they will be refilled at half price."

—Mr. F. W. Johnson, of Luther, Iowa, whose advertisement of various breeds of poultry will be found on page 25, writes as follows: "My pens are mated for the egg trade. In mating of particular varieties I have used a double mating system. I also have a few good Single Comb Brown Leghorn, White Leghorn and Silver Laced Wyandotte cockerels for sale. These are bred from winners at the Ames, Ft. Dodge, Des Moines, Marshalltown, Minneapolis, Monroe, Muscatine, Rolfe and Iowa State Fair shows." For free catalog giving all information write to the above address.

—Mr. M. Hummel, of Monroe, Iowa, breeder of Mammoth Bronze turkeys and Barred Plymouth Rock chickens, makes a change in his advertisement on page 25 that will be of interest to breeders. He is prepared to furnish eggs from choice Barred Plymouth Rocks of heavy-boned, well-barred stock. His yards are headed by cocks and cockerels scoring 92 points and weighing from eleven to thirteen pounds. The hens and pullets will weigh from eight to eleven pounds. They are bred for size and bone as well as high scoring. Mr. Hummel makes prompt shipments and guarantees delivery of fertile eggs.

—The advertisement of Messrs. Hennesy Bros., of Strawberry Point, Iowa, offering White Plymouth Rock eggs for sale will be found on page 25. Concerning the birds in their flocks they write: "We have two pens mated for eggs. They are all true to type and good-colored birds from a heavy laying strain. Pen No. 1 is headed by a nine and one-half-pound cockerel cut only 2 points on color by Shellabarger and mated with high-scoring females. Pen No. 2 has free range, with large, vigorous male birds and selected hens and pullets. We have bred White Plymouth Rocks for ten years and warrant a high per cent of eggs fertile."

—On page 25 of The Homestead will be found the advertisement of the Hillside Poultry Farm, owned by Mr. Fred Post, at Moulton, Iowa. Eggs are offered for sale from prize-winning Imperial Pekin ducks, Barred Plymouth Rock chickens and White Holland turkeys. The toms heading the turkey flock weigh forty to forty-two pounds and score 96 to 98 points. The pullets and hens weigh from sixteen to twenty-two pounds. Pekin ducks weigh from eight to eleven pounds and score 96½ to 98 points. Barred Plymouth Rock cockerels weigh from eleven to thirteen pounds and score from 92 to 93½. Barred Plymouth Rock hens and pullets score 92 and 94 points.

DOGS.

SCOTCH Collie pups, sable, black and white, over four months old, from trained parents; eligible males, \$8; females, \$7. F. Bollman, Wall Lake, Ia.

Scotch Collie Pup Five months old, perfectly marked; from trained ancestry; bargain at \$10. Dr. J. E. Guernsey, Olin, Ia.

For Sale Pedigreed Scotch Collie puppies; natural heelers and prices reasonable. Pedigrees furnished. Raymond Peterson, R. 1, Garwin, Iowa.

Fox Terriers King of the Rat Terriers. Puppies, grown stock for sale. S. C. Red eggs \$2 per 15. Sabot Kennels, Pella, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

LANGSHANS.

McDUFF'S Black Langshans bred exclusively. Won at best shows. Prices, \$2 per 15, \$3 per 15, \$5 per 15. If you want size and color, write me. R. G. McDuff, Monroe, Iowa.

BLACK LANGSHAN Eggs for sale; \$1 for fifteen eggs; \$2.50 for 45 eggs. Incubator lots, \$3 per 100 eggs. H. M. McKeen, Sac City, Iowa.

BLACK Langshan cockerels—A few more to sell at \$1 each from high-scoring stock. Eggs in season. Address Mrs. Sarah F. McKeen, Sac City, Ia.

BLACK LANGSHAN Eggs for sale from large B. thrifty birds, farm range. \$1.00 per 15; \$1.00 per 100. Address, J. H. Rayl, Afton, Iowa.

Black Langshan eggs, 20, \$1; \$4.50, 100. Large birds; hens to lbs., cks. 12. Any scoring 95. Mrs. Geo. Tutt, Marathon, Ia.

LANGSHANS.

BLACK LANGSHAN EGGS FOR SALE

FROM high-scoring birds, 15 for \$1; 100 for \$4.50. Safe delivery and satisfaction guaranteed. MRS. JAS. H. ALLEN, New Sharon, Ia.

BLACK LANGSHANS

BRED exclusively for 16 years. There is none better and 1 guarantee satisfaction. Eggs for hatching \$1.50 for 15 or 30 for \$2.50. Remember that the best are the cheapest. O. H. Stilson, Corwith, Ia.

PRIZE-WINNING BLACK LANGSHANS

A FEW choice cks. for sale; \$2 each; 6 for \$10. Eggs, \$1 per 15; \$5 per 100. No better anywhere at the price. Margaret C. Daly, Anamosa, Iowa.

Prize-Winning B. Langshans exclusively, scoring to 94½ at Dubuque by Lambert, Eggs, 13, 85c.; 26, \$1.50; 100, \$4.50. W. W. Baskerville, Earlville, Ia.

Black Langshan Eggs for sale, from large, thrifty birds; satisfaction guaranteed; \$1 per 15; \$4 per 100. Mrs. Tom Bottorff, R. 1, Hedrick, Ia.

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$3; 200 for \$9.

T. A. DAVENPORT, BELMONT, IOWA.

"MONEY IN EGGS"

S. C. Brown Leghorns—My method and farm range has developed layers with vigor. My eggs produce layers. One-third fancier's price and better layers, \$1.50 per 30; \$3 per 60; \$4 per 100; \$6 per 200. Prompt shipment. J. E. McCarthy, Enfield, Ill.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1; 50, \$3; 100, \$5; 200, \$9.

R. R. STEWART, R. 2, Charles City, Iowa.

S. C. Brown Leghorns Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

Selected Fertile Eggs From special egg strains; farm raised, thoroughbred R. & S. C. W. Leghorn hens. Mated for egg production and vigorous chicks. \$2.50 per 30; \$6 per 100. Chas. G. Jackson, Prescott, Iowa.

Single Comb White Leghorns

BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. I. S. Ketcham, Box 300, Booneville, Ind.

Rose Comb Brown Leghorns Bred 17 years exclusively for quality and eggs. None better regardless of price. 20 eggs \$1; 50, \$2.50; 100, \$4; 200, \$7. Good cks, 6 for \$5. ELLA THARP, Mt. Sterling, Iowa.

ROSE COMB Brown Leghorns exclusively. High-scoring and high-class utility stock. Eggs for hatching, \$1 for 15; \$4 for 100. Address, E. G. Roberts, Route 2, Afton, Iowa.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5, 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. Sunny Slope Poultry Yards, Oskaloosa, Iowa.

Rose Comb Brown Leghorns exclusively. Eggs for hatching, \$3.50, 100. Also Rouen duck eggs. Write P. Bowman, R. 6, Eldora, Ia.

S. C. Brown Leghorn Eggs Two sittings, paid. Address Nellie Cahow, Greenfield, Iowa.

Rose Comb Brown Leghorns; prize-winning cockerels for sale. Also eggs in their season. For prices address Mrs. E. L. Claypool, Spencer, Ia.

S. C. B. Leghorn eggs for hatching, 75c. per 15; at reduced rates on incubator lots. FRED D. FOSHER, Beaconsfield, Ia.

S. C. W. LEGHORNS The bred-to-lay strain. Pen scoring 94. 15 eggs \$1. Farm flock \$3.50, 100. Geo. Gaul, Tipton, Ia.

Rose Comb White Leghorn eggs for hatching; 15 for \$1; 30 for \$1.75; or 100 at \$4. Address F. A. HAM, Saroville, Nebraska.

Single Comb Brown Leghorn eggs from birds scoring 90 to 95; 75c. for 15; \$3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

S. C. W. Leghorn Wyckoff strain of eggs, \$1.50 and \$3 per 15. Day old chicks. Send for circular. Mrs. Wilson McIntyre, Red Oak, Iowa, Route 6.

Rose Comb Brown Leghorn eggs all season. A few fine cockerels left from high-scoring stock. Address Eva D. Tutt, Alta, Iowa.

S. C. W. Leghorn eggs; first pen headed by ckl. direct from Young. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

Single Comb White Leghorns Eggs, \$1 per 20. M. E. Page, Madrid, Iowa.

SINGLE COMB BROWN Leghorn eggs, \$1 for 15; \$4 for 100. Mrs. F. O. Racine, Route 5, Shenandoah, Iowa.

R. C. B. Leghorn eggs, Kulp's strain; bred for quality; egg production; standard shape; color; eggs, 50, \$2.50; 100, \$4. Mrs. L. W. Renaud, Bondurant, Ia.

Rose Comb Brown Leghorn Eggs at 75c. per 15 or \$3.50 per 100. Mrs. John Roskamp, Kanawha, Iowa.

SINGLE COMB WHITE LEGHORNS. Eggs 15 for \$1.25, \$3 per 100. S. C. Rhode Island Red eggs, 15 for \$1.50. Star Poultry Farm, Eddyville, Ia.

Single Comb White Leghorns. Eggs from choice matings, \$1.50 for 15, express prepaid. Address, ARLIE TOOM, Pella, Iowa.

Rose Comb White Leghorn 219 egg strain, snow white. Many will score 96. \$1.50, 15. \$2.50, 30. Mrs. Geo. Tutt, Marathon, Iowa.

ROSE COMB BROWN LEGHORN EGGS At 50c per 15 or \$3 per 100; PLOWMAN BROS., Donda Leando, Iowa.

S. C. B. LEGHORNS Eggs pure blood farm range at \$4 per 100 or \$1 per sitting. MRS. H. C. LABBERT, ANTHON, IOWA.

S. C. BROWN Leghorn eggs from prize-winners. Won on every entry at the Iowa State Show January, 1909. Mrs. Clyde Nelson, Birmingham, Ia.

RHODE ISLAND REDS.

S. C. Rhode Island Reds

TOMPKINS' strain. America's finest. Large, long-bodied, vigorous birds. Red to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$3 per 100. Circular free.

R. H. DE VAULT, BLOOMFIELD, IOWA.

ROSE COMB CHERRY REDS 20th century birds, selected eggs from high-scoring, good-laying strains. Few cockerels left. Farm range, 17 eggs for \$2; 50 for \$5; 100 for \$8. My birds better than ever. Order immediately for present or future shipment. Write for circular. W. W. Forbes, Box 710, Jefferson, Ia.

REDS—BOTH COMBS—GREAT EGG RECORD

10 CENTS for color lesson, illustrated by feathers. How to mate for best results. Who are fake advertisers. Egg catalog free. Foundation stock from the best eastern and southern strains. Mrs. F. W. McIntyre, R. 3, Red Oak, Iowa.

Reds—Single and Rose Comb

CHARLES City, 1910; Shanklin, Judge. S. C. won first, second pullet, second cockerel, second pen; 4 premiums on 6 entries. Scored range stock eggs, \$5 per 100. Choice matings, \$2, \$3 and \$5 per 15. Guaranteed good hatch. F. O. Martin, Floyd, Iowa.

S. C. Rhode Island Reds

TOMPKINS STRAIN Write for descriptive circular. P. H. Thiel, Renwick, Humboldt Co., Iowa.

R. C. Rhode Island Reds

EXCLUSIVELY. Eggs for hatching from stock scoring 90 to 94½. Write for prices and show record. H. S. Fain, Emmetsburg, Iowa.

EGGS from prize-leading Reds, both combs, 1909 Floyd Co. Fair. Cockerel, 1st; pullet, 1st-2d, 1909 North Iowa Fair. Best pair fowls, 1910, Charles City, Ia. Best display S. C. Reds, ckl., 1st; pen, 1st; R. C. pen, 1st; hen, 1st; pullet, 1st-2d. Fertile eggs, \$3 per 50; pens, \$2 per 15; \$3.50 per 30. Mrs. A. Lann, Floyd, Ia.

S. C. RHODE ISLAND REDS

EGGS for hatching from choice pen, \$1 per 15. Exhibition pens, \$2 and \$3, birds scoring to 94½. Deep red, not buff or smutty. Start with the best. Satis. guaranteed. L. G. Johnson, Steamboat Rock, Ia.

S. C. R. I. REDS

BRED from leading strains, such as Sheldahl, B. Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. M. Finkenhagen, Ellsworth, Ia.

THOROUGHbred Rose Comb Rhode Island Red eggs. Strong, vigorous flock. Pen No. 1, headed by high-scored cockerel, 15 eggs, \$1.25; 30 eggs, \$2.25. Pen No. 2, 100 eggs, \$4.50; 50 eggs, \$2.40. Miss E. C. Powers, Osage, Iowa.

Eggs for Hatching From S. C. R. I. Reds. Special attention given to the laying as well as exhibition qualities. Also three grand matings of B. P. Rocks. C. H. Drake, Hazleton, Iowa.

S. C. R. I. RED EGGS 15 for \$1.50; 30 for \$2.50; 100 for \$6.00. J. T. NICHOLSON, Bellevue, Iowa.

S. C. R. I. Red cockerels for sale; scored and unscored. Eggs for sale. Write for prices. Mrs. H. L. Alsop, Sylvia, Iowa.

S. C. Rhode Island Red Eggs Full bloods; \$1.50 per 15, \$2.50 per 30. A. G. BIRDSALL, Perry, Iowa.

R. C. R. I. Reds. Cherry Red strain. Eggs from cockerels for sale. Harry C. Blake, Maquoketa, Ia.

SINGLE COMB RHODE ISLAND REDS Pen, \$3; range, \$1 per 15 eggs. S. T. BUSSARD, BOX 143, ESSEX, IOWA.

S. C. R. I. Red eggs from three special mated pens. S. Write for egg circular. Incubator eggs, \$3 per 50; \$5 per 100. Frank Chalupa, R. 2, Pleasant Plain, Ia.

ROSE and Single Comb R. I. Reds; fine bred; high-scoring eggs, 15 for \$1, 50 for \$3, 100 for \$5. Good laying strains. Mrs. T. A. Gough, Bristow, Iowa.

R. C. Rhode Island Reds; winners; score 91 to 93½; red to skin; eggs, \$2 for 15; \$3 for 45. John Hettich, Poultry Judge, Bowling Green, Mo.

ROSE Comb Reds. Trap-nested for great egg production. Beautifully illustrated, descriptive catalog free. Iowa Poultry Farm, Gilmore City, Ia.

S. C. R. I. Red eggs from high scoring stock, that are proven winter layers; perfect type and color; \$1.25 per 15; \$5 per 100. C. W. Kellogg, Kullerim, Iowa.

EGGS FOR SALE S. C. R. I. Reds; first pen, \$2 for 15; second pen, \$1 for 15 eggs. E. Radebaugh, Rippey, Iowa.

S. C. R. I. Red Eggs \$1 for 15; \$5 for 100; fine bred; good laying strain. Address Mrs. Sophia Rader, Laurel, Iowa.

ROSE COMB Rhode Island Reds. Eggs from selected layers, \$1.25 for 15; \$3 for 45; \$5 for 100. D. Rieh, Mt. Pleasant, Iowa.

EGGS From choice mating; Rose Comb R. I. Reds; great laying strain; best of stock. Address A. L. Sanders, Perry, Iowa.

S. C. R. I. REDS Eggs from fine matings, at \$1 per 15; \$5 per 100. Address I. C. WELCH, Bedford, Iowa.

R. C. R. I. R. Eggs from high scoring stock, \$1.25 per 15; \$3.00 per 50, \$5.00 per 100. D. E. Witmer, Polk, Iowa.

Rose Comb R. I. Red eggs for hatching. Special matings, \$1.50 for 15; general flock, 75c. for 15. A. A. Worthington, Media, Illinois.

S. C. R. I. Reds Exclusively. Stock for sale; scored or unscored. Eggs in season. J. T. Nicholson, Bellevue, Iowa.

BABY CHICKS.

BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

Baby Chicks S. C. W. Leghorns a specialty. In shipments, 25 or more. Orders filled in rotation. Highland Poultry Farm, Hazleton, Ia.

PIGEONS.

Homer Pigeons mated birds and breeders from \$1 to \$1.50 per pair. Photo free. Address J. W. HOPSON, BEDFORD, IOWA.

WYANDOTTES.

EGGS EGGS

From My Great Laying Strain White Wyandottes

AT \$1.50 per 15; \$7.50 per 105. Order at once and have me ship eggs later. In my strain of White Wyandottes there is great laying and fancy quality combined. I also have for sale 2 fine pens of 9 birds each mated up for grand results. Write me quick for price if you want one of these beautiful pens. S. HARR, RIVERSIDE, IA.

WHITE WYANDOTTE EGGS

FROM stock scoring 93 to 96 by Russell; many of them first-prize winners. From best pens, \$3 for 15; \$5 for 30. Range, \$1.50 for 15; \$5 for 105. Guarantee fertility and safe delivery. GEO. W. LIVINGSTON, MONROE, IOWA.

Buff Wyandottes and Columbian Wyandottes

BUFFS won 4 firsts out of 5 at Iowa State show. Columbians won 1-2-3-5 cockerel; 1-2-3 hen; 1-2-3 pullet. 1-2 pen, stock and eggs. Start right with an egg laying strain. Order eggs now. J. A. PEASE, Ft. Dodge, Ia., Breeder.

PARTRIDGE WYANDOTTES

THESE pens mated. Always winners. Heavy winter layers. Send for mating list and prices. DR. F. D. MINER - HAZLETON, IOWA.

WYANDOTTES

White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. A. L. Anderson, Indianapolis, Ia.

WHITE Wyandottes of quality. This proves it. Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank, J. M. Erichson, Slater, Ia.

SILVER WYANDOTTES

Eggs, 15 for \$1; 45 for \$2.50; 100 for \$5. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3, 15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

White Wyandottes Fine large vigorous blocky birds; barnyard flock; price \$1 to \$3, 15. Special prices on larger lots. Mrs. C. A. Robinson, Grissold, Iowa.

WHITE WYANDOTTE EGGS

\$1, 15; \$1.50, 100. Eber Anderson, R. 1, Minden, Neb.

Silver Laced Wyandotte eggs, \$1.25 per 15 eggs; \$3 per 50; incubator lots, \$5 per 100. E. W. BALLARD, Newton, Iowa.

MAPLE Lawn Poultry Farm. White Wyandottes. Eggs for hatching. Excellent winter layers. Farm range \$5, 100. Mrs. C. W. Bryant, Orchard, Ia.

S. L. WYANDOTTE EGGS

\$1.25 per 15; \$5 per 100. John Chase, Greeley, Iowa.

White Wyandottes exclusively. Eggs from choice stock, \$4 per 100. Address, W. B. Danforth, Little Cedar, Iowa.

Buff Wyandottes I have a few good cockerels for sale. Address Mrs. Grant Davidson, R. 3, Scranton, Iowa.

Buff Wyandotte Eggs from choice, selected stock. Incubator orders filled on short notice. Geo. M. Deyoe, Mason City, Iowa.

DUSTON WHITE WYANDOTTE EGGS exclusively. \$1 per 15; \$4 per 100. Blocky stay, white kind. Address, Mrs. F. O. Elliot, Kent, Iowa.

Silver Laced Wyandottes Exclusively. Eggs from selected stock \$1 per 15. A few good cks. left. Dr. D. C. Garner, Minga, Ia.

WHITE Wyandotte eggs for hatching, from farm range, \$1 per hundred; 75c. per 15. Satisfaction guaranteed. Mrs. J. W. Kiesling, R. 6, Creston, Ia.

SILVER LACED Wyandotte eggs and a few good pullets and cockerels for sale. Mrs. J. W. Lowe, Clarksville, Iowa.

BUFF WYANDOTTE EGGS Fine shape and solid buff birds scoring from 92 to 94½, \$1.50 per 15. E. K. Morris, Montezuma, Ia.

Silver Laced Wyandotte eggs, \$1 per 15; \$4 per 100. Farm range. Satisfaction guaranteed. R. Palmatier & Son, Greene, Iowa.

White Wyandotte Eggs \$3.00, \$1.50, 75 cents per 15. Circular free. Otto Peterson, Jr., - - Axtell, Nebraska.

For Sale S. L. Wyandotte eggs for hatching, \$4 per 100, or 65 cents per 15. Write to CHAS. W. FARIS, IOWA FALLS, IOWA.

Silver Laced Wyandotte eggs for sale, from good birds. Prices reasonable. Write for circulars. S. R. Young, Greencville, Iowa.

BUFF WYANDOTTE CATALOG FREE. Illinois state winners; eggs, \$1.50 and \$3 per 15. J. S. WATSON, VAIL, IOWA.

MINORCAS.

S. C. BLACK MINORCAS

EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

S. C. B. Minorcas eggs for hatching, from first-class stock; \$1.25 for 15 eggs; \$5 for 100 eggs. Incubator lots a specialty. H. A. Wohlsdorf, Lawler, Iowa.

BRAHMAS.

Ottumwa Poultry Yards; light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

LIGHT BRAHMA Eggs for hatching; 30 for \$1.25; 50 for \$2; 100 for \$3.25. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

LIGHT BRAHMAS Eggs, \$1 per 15; all unfertile eggs replaced at half price. Stock for sale. H. F. Moffitt, Afton, Iowa.

DUCKS.

Indian Runner Duck Eggs for Sale 9, \$1; 100, \$7. Write T. P. OVERTON, Tracy, Ia.

INDIAN Runner ducks; imported stock. Orders booked for eggs at \$2 per 15. Pure brown and white. F. L. Reinhard & Son, Ottumwa, Iowa.

PLYMOUTH ROCKS.

We are now ready to furnish EGGS from the

Quality Strain Barred Rocks

THAT have been carefully bred both for fancy and utility, at \$1.50 per 15; \$2.50 per 30; \$3.75 per 45. Prices on eggs from exhibition matings sent upon request as we have not issued a Mating List.

C. C. DRAKE & SONS, Drawer Y, LA HARPE, ILL.

BARRED PLYMOUTH ROCKS

COCKEREL pens headed by first-prize winner at Des Moines Poultry Show, 1908, and birds of equal merit. Females consist of pullets sired by the State Fair first-prize cockerel and the hens that produced them. Pullet pens are Blue Belle strain, and contain first-prize hen, State Fair, 1908; second-prize hen and pullet, Des Moines Poultry Show, 1908. Eggs, special pens, \$5 for 15; others, \$2.25 for 15. E. M. CATHCART, CHARTER OAK, IA.

219 Egg Strain Barred P. Rocks

THEY win and lay and pay their own way. They have for Hartman and can for you. Eggs for hatching from all pens \$1.50 for 15, \$2.50 for 30, \$3.50 for 50 and \$6.00 per 100. Special mating \$3.00 for 15, \$5.00 for 30, and \$9.00 for 50. W. A. HARTMAN, Box 242, Winterset, Iowa.



Barred Plymouth Rock Eggs

FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weigh 10 to 12 lbs. Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guarantee good hatch and safe delivery. Catalog free. S. V. LATCHAM, MONTEZUMA, IOWA.

BARRED ROCK EGGS

FROM extra fine hens mated with the males I had in my pens last season. Scored from 91% to 92% by Russell and Southard. Send for a true-to-life photo. Eggs \$1, 15; \$2, 30; from pens \$5 per 15. Address J. W. HOPSON, BEDFORD, IOWA.

WILKINSON'S WHITE ROCKS

LARGE boned, typical shape, snow white, 93% to 95 points. Eggs for hatching, \$2 per 15. If you want winter layers, I can please you. W. T. WILKINSON, Rosedale Farm, E. Des Moines, Ia.

Barred Plymouth Rock Eggs

I AM offering choice eggs from the leading strains at \$1 for 13; six sittings for \$5. Write me at once. Address Jno. C. Hardman, Brayton, Iowa.

Barred Rock EGGS from high-scoring, farm-range stock, with heavy bones, small comb and clear, narrow barring. Twelve years' experience; satisfaction guaranteed; pens, \$1.50 per 15; range flock, \$1. Mrs. Chas. Murphy, Dexter, Ia.

Barred P. Rock Eggs from Blake's improved egg-laying strain. Write for prices and my secret for raising better layers. GEO. F. BLAKE, MAQUOKETA, IOWA.

Barred Rock Eggs. Utility flock, \$1 for 15, \$5.00 per 100. Pens either cockerel or pullet mating, \$2.00 per 15. Mrs. P. L. Carroll, Hampton, Iowa.

CRAY'S Barred Plymouth Rock Eggs for sale from 50c. to \$5.00 per sitting of 15 eggs. Incubator eggs \$3.00 per 100. Write for my free egg circular. J. H. Cray, Wellman, Iowa.

White Plymouth Rock Eggs

Large, high-scoring birds; pen 1, \$1.50; pen 2, \$1.15; \$2.50; 45; \$5.100. Hennessy Bros., Strawberry Point, Ia.

150 Bradley and Thompson B. P. Rocks

COCKERELS AND PULLETS.

Henry Schlatter & Sons, Lawler, Iowa.

WHITE ROCKS

Trapnested, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up. 15 eggs \$3, \$2 and \$1. Address Rev. James A. Slack - Yorktown, Iowa.

Barred Plymouth Rocks

exclusively. Eggs from high scoring birds. Largest type, best breeding and marking. Bradley strain \$2.00 per 15. Mrs. S. M. Thompson, Birmingham, Iowa.

BUFF ROCK EGGS

From a strain of fine winter layers, \$1.50 per 15; \$4.50 per 50; \$9 per 100. L. L. Woods, Grinnell, Iowa.

White P. Rock Eggs, 15 for \$1.50; 30 for \$2; 100 for \$5; from prize-winners and scored stock; Fishel strain. Mrs. E. C. Turner, R. 1, Griswold, Ia.

BUFF Rock Eggs for sale; \$1 per 15; \$4.00 per 100. My birds are large with good shape and color, farm raised. Mrs. J. C. Anderson, Oskaloosa, Iowa.

White Rock Eggs, Fishel strain, pure white \$1.00 for 15; \$5.00 per 100. Mrs. Melvin Baird, Red Oak, Iowa, R. 8.

BARRED P. Rocks exclusively, large bones, good barring. Farm range eggs for hatching 15, \$1; 30, \$1.50; 100, \$4.00. Mrs. I. S. Battles, Mitchellville, Iowa.

Barred Rock Eggs \$1.50 to \$3 for 15. Blood for farmer and breeder. Pure Bradley stock, 10 lb. pullets. Earl Bloom, Bridgewater, Ia.

BARRED ROCK EGGS \$1 per 15; \$5 per 100. Mrs. J. A. Campbell, Manning, Iowa.

Buff Rock Eggs \$5 per 100; \$3 per 50; \$1.50 per sitting or \$3 per 200. Address CHARLOTTE COLE, FAIRPORT, IOWA.

BRADLEY STRAIN BARRED ROCKS - Eggs from pens \$1.50 per 15; from flock \$1. Mrs. Geo. Dawdy, Ahiegon, Ill.

18 B. P. Rock cockerels; strong, vigorous birds, with great size and quality, and narrow, deep barring. Some show birds. C. G. Good, Ogden, Ia.

Barred P. Rocks Eggs for hatching, "Shellabarker strain," both matings, Eggs, \$2 per 15; R. I. Hawthorne, West Liberty, Ia.

Barred Plymouth Rock Eggs At \$1 for 15; \$2.50 for 30; \$5.00 for 50; \$10.00 for 100. Mrs. Sidney Hunt, R. 3, Earlville, Ia.

WHITE P. ROCK EGGS, Fishel strain, direct; score 93%, heavy layers, prices low. Write Martin Johnson, Cambridge, Illinois.

Martin's Snow White Rocks, scoring 93% to 95%, \$1.00, 16 eggs. Utility flock \$3.50, 100. Clarence Martin, Clarksville, Iowa.

PLYMOUTH ROCKS.

Hawkins', Felch's and Thompson's

LINE BRED Barred Plymouth Rocks: 1st premium won wherever shown. Yards headed by high scoring exhibition cockerels. Every male bird used in 1909, and for past ten years we bought from A. C. Hawkins' and E. B. Thompson's Madison Square Garden prize-winning pen and I. K. Felch's reserved pens, and sell 18 eggs for \$1; 40 for \$2; 100 for \$4.50. This year we paid Thompson \$11.75 for one cockerel. They are an unbroken line of prize winners, weight standard and above. I mate them by standard rules. Fertility guaranteed. I am an expert caponizer. Catalog free.

REUBEN E. SANDERS, MONTEZUMA, IA.

Barred Plymouth Rock ... EGGS ...

OUR yards represent Hawkins, Bradley and Thompson strains, and descendants of leading prize winners. 18 eggs, \$1; 40, \$2; 100, \$4.50. A fair hatch and safe delivery guaranteed.

H. C. SAUNDERS & SON, MONTEZUMA, IOWA.

EVERGREENLAWNFARM

M. Hummel, Prop. Monroe, Iowa.

EGGS-EGGS-EGGS-FOR HATCHING

BREEDER of Barred P. Rocks exclusively for 27 years. Yards headed by cocks and cockerels scoring 92 points; first prize winners weighing 11 to 13 lbs.; hens and pullets weighing 8 to 11 lbs., with that deep strain blue barring. Eggs, \$1.50 per 15; \$2.50 per 30. Prompt shipment; eggs guaranteed fertile.

EGGS from 8 grand matings, pure Bradley. The males heading our yards are large, very dark, close barred and to the skin in all sections, and score from 92 to 93. Hens mated with them are fully as good. \$3 to \$5 per sitting. Utility flock, cockerel bred \$5 per 100. Circular free. ALBERT A. FOSTER, RUSSELL, IOWA.

BARRED PLYMOUTH ROCK EGGS

THOMPSON & Bradley strains from high scoring males and females. Pen A-pullet mating. Pen B-cockerel mating. The very choicest. Address MRS. L. C. REESE, PRESCOTT, IOWA.

B. P. ROCK Eggs for sale from extra large-boned, nicely-marked stock; yards headed by cocks and cockerels scoring 90 to 92%; weighing 11 to 13 lbs. In five showings, including Central Iowa Show, 1909, Russell, judge, we won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths. 15 eggs, \$1.50; 30, \$2.50; guaranteed fertile. J. W. Wagner, Monroe, Ia.

BARRED ROCK EGGS From winners. Heavy layers and payers, \$1.25 to \$4 for 15. Bright, Bradley and Latham strains, line bred. Satisfaction in hatch, quality, and results assured. Send for my free, handsome new catalog. Don't delay; write today. J. H. Chandler, R. 1, Des Moines, Ia.

BARRED Plymouth Rock eggs for sale. Have bred barred Plymouth Rocks exclusively on Cedarvale farm for 18 years and make a specialty of furnishing eggs for incubators. Good hatches guaranteed. No better bred stock in the U. S. than here on Cedarvale farm. J. S. Kennedy, Blockton, Ia.

Barred Rock Eggs Three yards of specially mated large hens and pullets; males rangy, evenly colored, line bred, large boned, deeply m'rk'd, double matings. Eggs, \$1.50, 15; \$2.50, 30. J. O. Becker, Charlton, Ia.

Fancy Bred Barred Plymouth Rocks EXCLUSIVELY.

Eggs, \$1 for 15; \$1.75 for 30; \$5 for 100. A. O. Lokken, Alta, Ia.

Eggs B. Rock, \$1 per 15; \$5 per 100. Geese eggs 25c., etc. Also some geese yet or sale, both sexes. Letters from satisfied customers, not one complaint. MRS. J. COCKERTON, Whiting, Iowa.

Eckert White Rocks were winners at Manning and Sioux City shows, scoring to 96. Eggs from grand pens, \$3 per 15. F. H. ECKERT, Charter Oak, Iowa.

Buff Rocks The ideal farmer's fowl-winners highest awards Iowa State and other leading shows this season. Stock and eggs for sale. C. & C. T. VAN LINT, Pella, Iowa.

Eggs From our famous laying strain of White Plymouth Rocks are plentiful and at right prices. Address T. F. Martin, - - Maxwell, Iowa.

BARRED P. ROCK EGGS \$1 for 15; \$5 for 100; farm range. Mrs. J. L. Myers, Roslyn Farm, Almont, Iowa.

White P. Rock Eggs from snow white birds; excellent layers; \$1.25 per 15; \$5 per 100. Frank Nordstrom, Aurelia, Iowa.

WHITE Plymouth Rock eggs, \$1 per 15; \$2.50 per 50; \$4 per 100. Will sell a few hens at \$1 each. Address Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

B. P. ROCKS only. Large boned, well bar., good layers, high scoring, prize win., thrifty birds, fair deal. Eggs, \$6, \$1.25; 100, \$3. J. M. Reeder, Earlville, Ia.

Buff Plymouth Rock Eggs For hatching, from high-scoring pens, \$1.50 per 15; \$6 per hundred. E. C. RICE, GRAY, IOWA.

BARRED ROCKS Large, heavy-boned ecls. Eggs in season from prize-winning strain. Frank Sauter, What Cheer, Ia.

Barred Rocks Large boned, good layers, farm raised; \$4 per hundred; \$1 per fifteen. Adella Smith, Route 4, Creston, Iowa.

SMITH'S Buff Rocks. Eggs for hatching from my choice flock of Buff Rocks; fine layers; 15 eggs, \$1; 100 eggs, \$6. C. F. Smith, Route 5, Griswold, Iowa.

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of choice quality. Address Mrs. M. C. Thompson, Route 2, Atlantic, Ia.

White Plymouth Rock eggs from scored stock of Fishel strain, \$1 for 15; \$5 for 105. J. B. TRACY, Greene, Iowa.

EGGS From Barred Plymouth Rocks. Heavy weight fowls a specialty. Write for prices. L. D. Wells, Morrisonville, Ill.

Buff Plymouth Rock Eggs for hatching, at \$1 per sitting or \$5 per 100. Address O. N. WOODY, Route 3, NEWTON, IOWA.

Wright's Famous "bred-to-lay" strain Barred Plymouth Rocks. A few good cockerels for sale. Lufe D. Wright, Knoxville, Iowa.

Pure-Bred Barred Plymouth Rock EGGS for sale—\$1.50 per 15; \$6 per 100. Address George Wyland, Harlan, Ia.

PLYMOUTH ROCKS.

EXCLUSIVELY—Barred Plymouth Rock eggs from healthy, large stock. \$1 per 15, \$2.50 per 50, \$4 per 100. Address S. S. Krebill, Donnellson, Ia.

ORPINGTONS.

BUFF, White and Jubilee Orpingtons for sale. Including eggs very cheap till May 1st, the time we must move. P. N. Dunn, Humboldt, Iowa.

SINGLE Comb Buff, Black, White and R.C. White. Scored ecls. Scientifically mated breeders. Eggs. Baby chicks, mating list. Dr. Evans, LeGrand, Ia.

S. C. BUFF ORPINGTONS Cook strain direct. Eggs, \$2 per 15; \$10 per hundred. B. S. Long, Little Sioux, Iowa.

ORPINGTONS, S. C. Buff. A fine stock. Farm raised. Eggs 15, \$1.50; 30, \$2.00; 50, \$3.00; 100 \$5. Address, Dan McCarty, Winthrop, Iowa.

Buff Orpington Eggs from prize-winning birds, \$1.50 to \$3 per 15; also orders booked for baby chicks. Mrs. O. A. Mace, Bedford, Ia.

PURE-BRED S. C. BUFF ORPINGTON EGGS \$1 per 15. Mrs. John A. Miller, R. 3, Creston, Iowa.

ORPINGTONS (Buff). Greatest winter-laying hens in the world. Eggs for sale. Free catalog. Prewitt, R. 5, Onawa, Iowa.

S. C. Buff Orpingtons Eggs for hatching; \$1.50, 15; \$7, 100. Fertile eggs guaranteed. Frank Rafoth, Earlville, Iowa.

MISCELLANEOUS.

S. C. BROWN LEGHORN EGGS

I am offering eggs from very large stock and the best of laying strains at 75 cents per sitting of 15. I can also furnish incubator hatches on short notice at \$4 per 100. Barred Plymouth Rock eggs from Ringlet strains, raised on separate farm, at \$1 per 15, or \$4.50 per 100. Address

H. FESSENMEYER, CLARINDA, IOWA.

WANTED TO BUY--Eggs for Hatching

IN large quantities, of the following varieties: Buff Orpingtons, Golden Wyandottes, Pekin ducks, White Orpingtons, Rose Comb Rhode Island Reds, Also Barred Rock cockerels, Rhode Island Red hens and many other varieties of fancy poultry. Dean Swift Poultry Farm, Des Moines, Ia.

EGGS FOR HATCHING

FROM nicely mated pens of Barred Rocks and Single Comb Brown Leghorns, bred especially for egg production. Price 75 cents per sitting. ROBERT H. KERNDT, LANSING, IOWA.

Eggs For Hatching

FROM farm range stock; Barred Plymouth Rock, Buff Plymouth Rock and Single Comb Brown Leghorn. Prices reasonable. Circular free. C. E. MATTESON, Pewaukee, Wisconsin.

ROCKS

Barred and white. Also S. C. W. Leghorns, W. Holland turkeys, Toulouse geese, Pekin and I. R. ducks. Eggs for sale at right prices. We won 10 prizes and four silver cups the past year. Address, W. M. Shaw & Co., Box 16, Monroe, Iowa.

White Plymouth Rocks and S. C. W. Leghorn eggs at 75c. a sitting. Prize-winning stock. You cannot get anything better for five times the money. Address, Charles L. Berry, Route 6, Iowa City, Iowa.

White Holland Turkeys

B. P. Rocks, Pekin ducks; extra large, high-scoring prize winners. Ten turkey eggs, \$3; fifteen Barred Rock, \$1.50, from laying strain; ten duck, \$1.50. Address Fred Post, Moulton, Iowa.

S. C. R. I. REDS BARRED ROCKS

15 eggs \$1; 100, \$5. BEDFORD, IOWA.

EGGS S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility results and highest fancy attainment. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

WHITE Wyandottes and Buff Orpingtons; extra good birds, true to type farm range, bred from birds scoring 92 to 95%; satisfaction guaranteed. \$1 per 15; \$2.50 for 50. Carl J. Hedberg, Boxholm, Ia.

EGGS for hatching—Best pen \$5, 15; 2d pen, very good birds, \$3, 15; flock on range, \$1.50, 15; \$6, 100. Mammoth White Holland turkey eggs, \$3 for 9 eggs. Address Mrs. C. F. McLochlin, Gray, Iowa.

S. & R. C. Brown Leghorn. S. L. Wyandotte Eggs, 1st and 2nd prize State Fair winners in pens. 15, \$1.25; 30, \$2.00; 50, \$3.00. S. C. eggs from flock \$1.00, 100. Mrs. Will Michael, Selma, Ia.

EGGS R. I. Red, W. Orpington, S. L. Wyandotte, all Rose C. Pekin and Indian Runner ducks, all bred for size and egg production. Send for circular. P. F. Smith, Montezuma, Ia.

EGGS—B. Rocks, headed by Bradley Bros.' ecls. W. Rocks, \$1, 15; S. S. Hamburgs, \$1.50; Embden geese, 20c. each. Mrs. H. E. Brown, R. 5, Corning, Ia.

EGGS Mammoth Pekin, W. Wyandotte; also Wyandotte ecls.; scored stock; sure to please. E. S. Dyns, Bellevue, Iowa.

B. P. Rock Eggs 26, \$1; 100, \$3. M. B. turkey eggs, \$2.50 for 11. A few good cockerels for sale. Robert Hunt, Earlville, Iowa.

FOR SALE—R. I. Red, Embden geese and Pekin duck eggs. Also babe chicks. Maple Lane Poultry Farm, Mrs. J. C. Kessler, R. 3, Oskaloosa, Iowa.

White Wyandotte And S. C. Buff Orpington eggs for hatching; \$1 sitting or \$5 per 100. Mrs. J. E. Le Gassick, R. 2, Earlville, Ia.

Rose C. B. Leghorn eggs; 20, \$1; prices on lots. Mammoth P. ducks, 9, \$1; W. Holland turkeys, 9, \$2. Mrs. L. Mather, Clarksville, Iowa.

EGGS From pure-bred W. P. Rocks, Toulouse geese and M. B. turkeys at farmers' prices. Write L. E. Morgan, R. 4, Ames, Ia.

EGGS and stock of B. and W. Langshans; S. C. B. Orp.; R. C. R. I. Reds; L. B. Brah. and M. B. turkeys. Prices right. Mrs. S. E. Newell, R. 6, Audubon, Ia.

Barred P. Rocks and Single Comb Brown Leghorn eggs, 15, \$1.25; 30, \$2; 50, \$2.50; 100, \$4.50. J. A. PENN, Alta, Iowa.

White P. Rock and B. Langshan eggs, \$1 per 15; \$5 per 100. Also Bourbon Red turkey eggs, \$2.50 per 10. Mrs. Vick Willis, Saline, Missouri.

MISCELLANEOUS.

249 GOOD COCKERELS

Barred, White and Buff Rocks, White and Golden Wyandottes, Black Langshans, S. C. Buff Orpingtons, Rose and Single Comb R. I. Reds. Order now for eggs and baby chicks. Write me for prices and information. I. M. FISHER, Box 11, Hastings, Neb.

B. P. ROCKS. M. B. TURKEYS

ROCKS, best utility. Good winter layers. Eggs \$1.00 per 15; \$5.00 per 100. M. B. Turkeys, prize winning stock. Eggs, \$4.00 per 10. Address, P. J. Cooney, Box 513, New Hampton, Iowa.

There is Money in Eggs

START right. Get the laying and winning kind. Single Comb White Leghorns, Indian Runner ducks, large White Holland turkeys. Egg catalog free. Mary Culver, R. 1, King City, Missouri.

B. P. ROCK, M. B. TURKEY AND PEKIN DUCK EGGS

From Prize-Winning Stock for Sale. George M. Grinstead, Mitchellville, Iowa.

Light Brahma Eggs

FIFTEEN for \$1; 45 for \$2.50; 100 for \$5. I guarantee a fair hatch or send another order at half price. I also breed Shetland ponies. Some young colts for sale. Frank P. Healy, Bedford, Iowa.

1910 CATALOG FREE

Illustrates and gives prices of 43 varieties of land and water fowls and eggs. This booklet should be in the hands of every person interested in poultry for profit. Address S. A. Hummel, Box 56, Freeport, Ill.

Eggs--Barred Rock, M. B. Turkey--Eggs

BARRED Rock, special mating, per sitting, \$1.25; 2 sittings, \$2; farm range, 2 sittings, \$1, \$3 per 100. M. B. turkey eggs, 30 cents each; \$3 per sitting of 10; also 15 large, finely-marked B. P. Rock ecls. at \$2 each. M. V. Leeper, Redfield, Iowa.

EGGS FOR SALE

BUFF ROCK, BLACK LANGSHAN AND TOULOUSE GESE

C. E. MALONE - ATLANTIC, IOWA.

Free To Everybody

INTERESTED in S. L. Wyandottes, Pekin ducks and Bronze turkeys, my 1910 catalog and mating list. Drop me a card. It is ready now. J. D. Smith, Route 3, Montezuma, Iowa.

Mammoth Bronze Turkeys and Barred Plymouth Rocks

TURKEYS scoring 96 to 97 at New Hampton, 1909. Eggs, \$4 per 10. Barred Rock eggs, \$2 per 13. Ckl. heading this pen won first at New Hampton, 1910. W. J. DAVID, NEW HAMPTON, IOWA.

EGGS

From S. C. B. and W. Leghorns, Silver Laced and Partridge Wyandottes, Barred Rocks, White Orpingtons, Rhode Island Reds, Buff Cochins, Light Brahmas. Winners at big mid-west shows. Leghorn and Wyandotte ecls. for sale. Catalog free. F. W. Johnson, Luther, Iowa.

S. C. BUFF ORPINGTON and Buff Rocks, also Light Brahmas, scoring 92 to 94, best of matings, all birds are high-scoring. Eggs \$3 for 15, half price after June 1st. Prices quoted on 100 lots. I. E. MINER, BUSSEY, IOWA.

EGGS FOR HATCHING from the best of matings of Buff Cochins and B. P. Rock chickens, White Holland Turkeys and Pekin Ducks. Prices right. Address, Mrs. J. E. Baxter, Walnut Grove, Minn.

Eggs! Eggs! Polish Wyandotte, B. Rock, Holland, Rouen, Pekin, Muscovy duck eggs, 15, \$1.50. Toulouse and Embden geese, 15 cents each. L. C. Coleman, R. 2, Box 91, Mt. Pleasant, Ia.

Barred Plymouth Rock eggs for hatching, \$5 per hundred. An extra good quality farm flock, bred right. High-scoring Rouen ducks; eggs, \$1 per ten. J. H. Hownrth, Moulton, Iowa.

48 Breeds chickens, ducks, geese, turkeys. Fowls, eggs, and incubators at low prices. America's greatest poultry farm. Send 4c for fine 80-page 16th Annual Poultry Book. R. F. Neubert, Box 801, Mankato, Minn.

Silver Laced Wyandotte eggs, \$1 per 15; \$5 per 100. Buff turkey eggs, \$3.50 for 9. Address G. H. BIRGE, MT. VERNON, IA.

EGGS From high-scoring S. C. W. Leghorns; choice exhibition matings; also W. Cochins bantams. Circular free. C. H. Drake, Hazleton, Ia.

BARRED Plymouth Rock, W. Wyandotte, Holland, pen eggs, \$2, 15. Barred Ply. Rock, \$1, 15; \$3, 50; \$5, 100. W. C. Frazier, Atlantic, Cass Co., Ia.

MUSCOVY DUCK EGGS, \$1.75 for 15. White Wyandotte eggs \$1.50 for 15, and \$5 for 100 eggs. Mrs. T. W. Glass, Sac City, Iowa, Route 5.

Buff Orpington Eggs from scored pens. Eggs Write me. Mrs. Chas. Gutches, Floyd, Iowa.

A SPECIAL CORN-INSTRUCTION TRAIN.

(Continued from page 10.)

Place the six kernels at the end of the ear from which they are taken. Use care that the kernels do not get mixed with the kernels from the ear next to it. After the kernels are removed, boards may be laid over the rows of corn to keep them in place until the germination is known. Place the kernels from the ear No. 1 in square No. 1 of the germination box; from ear No. 2 in square No. 2 and so on. Lay a piece of good cloth on top of the kernels and dampen by sprinkling water over it. Then place over this a cloth considerably larger than the box and fill in on top of this with about two inches of moist sawdust and press down firmly, folding the edges of the cloth to cover the sawdust. Keep in a warm place where it will not freeze. The kernels will germinate in about six days. Then remove the cover carefully to avoid misplacing the kernels in the squares. Examine the kernels in the germination box and discard all ears that are worthless or show weak germination.

"Be sure to soak the sawdust at least one hour—or better still, over night.

"Leave at least two inches margin around the edges of the box to prevent freezing and drying out.

"Never use the box a second time without first thoroughly scalding both the cloths and sawdust.

"Do not open too soon. The stem sprouts should be at least two inches long."

Four essential things were pointed out day after day. First, test the seed corn. Second, shell the butts and tips off and do not use the kernels from the two ends for seed. Third, grade the seed corn as to size; large, medium and small. Fourth, calibrate the corn planter so that it will drop only three uniform-sized kernels in each hill, not two in some, three in others, four in others and so on in an uncertain, erratic way. Why invest so much money in a corn planter and so little money in various sets of plates designed to plant the various-sized kernels uniformly, was the pertinent inquiry.

But even with this preparatory work, the duty which confronts the corn grower this year is not at an end. Professors Holden, Bowman and Crossley repeatedly pleaded for a special seed patch in which to plant the best ears of seed corn this spring in order to have a supply of good seed corn for next fall assured. The message in regard to the seed patch was probably the most important of all the teaching of the experts. Professor Bowman wrote out this message for The Iowa Homestead readers and it is given below:

"It will mean millions of bushels increase in the annual yields of Iowa corn fields if every farmer had a seed patch of five acres from which he secured his seed in the fall for planting the following spring. And what a simple operation this is. It is not expensive, neither does it consume any large amount of time. It is so simple that every farmer can carry it out to the letter and when he once tries it he will never be without one thereafter.

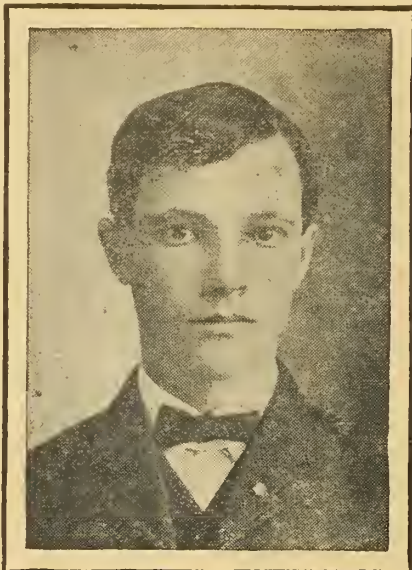
"When you test your seed corn this spring you will, of course, note that all of the ears do not germinate alike. Neither are they all equally strong and vigorous in their appearance. Just as you would select animals for breeding purposes, select say fifty or sixty of the strongest, the most vigorous and the best fifty or sixty ears you have in your seed. This will be the seed that you are going to use for your seed patch. In the first place where will this patch be located? Of course, it could be put off by itself, but this is not absolutely necessary. It may be put on the south or the southwest portion of one of your larger fields. Possibly your neighbor will have some corn just across the fence from your field and in this case the seed patch had better be planted on the north side of your larger field.

"No special preparation need be given this five-acre patch other than that which you give to the rest. Of course, in all cases the seed bed should be thoroughly prepared before planting.

"In preparing these sixty ears for seed patch you will, of course, shell off the butts and tips, as in the case of all the rest of the seed. The tip kernels are smaller, harder to plant, and the butt kernels are often extremely large and not uniform and for these reasons, if for none other, it is well that the ends of the ear be shelled off. It is not necessary to keep the kernels from one ear separate from the rest; just shell the sixty ears together and plant the seed in this five-acre patch. It would be desirable to plant this patch the very first of any of your corn and, of course, in fall plowing, preferable to spring plowing, in case it is sod land. Care for this five-acre field just the same as the rest. Cultivate it right along with the rest.

"Soon it will be time for the tassels and silks to appear and just here is where you will want to be sure and give this five-acre piece a little special attention. The silk is the female portion of the plant, the tassel is the

male. And no doubt you have all noticed that whether or not a stalk of corn puts forth an ear it is seldom but that it puts forth a tassel. One silk is produced for every kernel of corn on the cob, ranging from 800 to 1,000 in number, but it has been determined that on the average a tassel has from 40,000,000 to 50,000,000 of pollen grains. Now one pollen grain is sufficient for the fertilizing of one silk. The pollen is blown about the field, lights on a silk, the silk is fertilized and the kernels of corn are produced. Take a



B. W. CROSSLEY.

butcher knife (which is about as good as anything to use), see that it is good and sharp and take a stroll out into this five-acre patch just when the tassels begin to appear and whenever you come to a weak stalk, a barren stalk or a sucker, cut it off right down close to the ground.

"And why should we go to the trouble to do this? Here is the reason. No doubt you have often gone out into the corn field the latter part of September to pick some seed corn and as you have walked here and there in the field you would find the large, well matured ears. Possibly you took a great deal of pains to examine the stalks from which these ears were taken, but



Your Chance Is West—

You can get a 160 or 320 acre farm free in Montana—but you'll have to hurry. Along the Great Northern R'y are several million acres of government land available under the homestead laws. The soil has proved remarkably fertile, producing 30, 35 and 40 bushels of wheat to the acre—proportionate yields of other grains and root crops.

MONTANA

ranks first among the states in the yield per acre of wheat, oats, rye, barley and potatoes. In Eastern Montana, the Milk River Valley, Judith Basin Country, Great Falls District and Fertile Flathead Valley you can get free land, cheap land, irrigated land, fruit land and grazing land. Rocky Boy Indian Lands, 1,400,000 acres—very fertile—soon to be opened. The rush is on—thousands are going this Spring. Don't delay. Send for Free Montana Opportunity Bulletin.

Special Fares Round trip Home-seeker tickets on sale March 15, April 5-19. One way Settlers' tickets March 8-15-22-29, April 5-12.

Send for Colonist Foldere

E. C. LEEDY, General Immigration Agent, St. Paul, Minn.



(8)

When Writing to Advertisers Please Mention This Paper

Cheapest Fire Insurance on Earth!



\$75,000 BOND BACKS SHINN ROD

When your buildings are rodged with Shinn Rods, Mr. Shinn gives you a legally binding guarantee for the return of your money or, to that extent, make good any damage in case your buildings are struck. Mr. Shinn has deposited \$75,000 and bonded his company to carry out every guarantee in his advertising—in this ad—in every Shinn ad. Have you seen Shinn's famous Thunderstorm Machine? Visit your dealer. He'll be glad to show the inside workings of a real thunderstorm. The machine demonstrates how and why lightning strikes and how and why Shinn Rods give absolute protection.

If your dealer has no machine send us a postal card and we'll arrange to have you see this wonderful machine.

W. C. Shinn's 1910 Lightning Arrester for Telephones gives you guaranteed protection against fire caused by lightning—protection that is backed by Mr. Shinn's \$75,000 bond!

With this device attached on the outer wall of your home you can talk over hundreds of miles of wire without any danger whatever. It protects your 'phone forever and absolutely does away with every element of danger. It is automatic—no levers—no switches—no bolts. It's on guard every minute of the day and night.

It has been tested by every means known to science and never failed.

All this for an insignificant sum!

Visit your dealer and get this protector at once. If he is not supplied send us a postal card. By return mail we'll arrange for you to get this Arrester at the nearest Shinn dealer.

Shinn Heavy Pure Copper Cable Lightning Rod!

3 Standard Rods in 1!

Rod your buildings with Shinn Rods—3 cable-strength of pure copper—the only absolutely infallible lightning protector in the world.

The center strand is a little giant and this, combined with the others, gives maximum electrical carrying power—greatest possible conductivity is achieved only by the Shinn process.

THE BEST ROD AT LOWEST COST!

A postal brings W. C. Shinn's wonderful book "Lightning, and How to Control It" By the Conqueror of Lightning.

It contains all known reliable information for every farmer and every member of his household. Tells all about lightning and the laws of nature in regard to it—how houses and barns take fire, and how people and stock are killed—why water drains, stoves and iron beds are very dangerous during thunder and lightning storms, and explains fully how and why Shinn's Copper Cable Lightning Rods prevent strokes absolutely. Send a postal for it today. Address

W. C. SHINN, 16th Street Lincoln, Neb.

NOW! IS JUST THE TIME NOW! Get a Pencil and a Post Card

YOU have been seeing my ads all fall and winter—read some of them, maybe. Meant some time to write me to find out what all my advertising was about. But you put it off—couldn't find a pencil, maybe. Had to quit reading and go out to do some chore or other—and you clean forgot it.

Now—Right Now, you're thinking about it again. Don't stop till you Write Galloway Today About a Manure Spreader

Why? The best reason is that this is the year when you will need a spreader if you ever did. Manure in piles all around the barn and feed lots. Worth lots of money. Can't afford to waste a bit. Takes an awful lot of time. Get a spreader of Galloway. Best investment you ever made in machinery.

Galloway makes all his promises, all his statements, claims and challenges in black and white. A man can read 'em running. Now, what about the other fellow? Make him write it in the contract. Does he claim his spreader will be at the Galloway before breakfast? Make him write it in the contract. Does he claim his spreader is made of better material than the

Galloway? Make him write it in the contract. I will write any of my agreements—I do write 'em, every one of 'em. Ever think of that? Think it over then. If the Galloway were not exactly as good or better than I claim it is, could I hope to escape utter smash-up? You know I couldn't stay in business with my written claims and agreements if I didn't have the spreader to back me up.

Well then, won't you take my advice, accept my invitation, fix it any way you choose, but get your name onto a slip of paper or a postal card and send it to me. Not next week—not next Saturday—not tomorrow. Do it quick. Now is the time—Now. Then you'll be ready for the spring work.

By the way, ask for my proposition. It might pay for your spreader before the year is half done.

WM. GALLOWAY, President

WM. GALLOWAY COMPANY

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FREE This book contains barrels of good information about Manure Spreaders and how to make money with them. Ask us for one—they are FREE!

did you ever stop to consider what sort of a father those seed ears had? Of course, you have appreciated that the sins of the father are visited on the children to the third and fourth generation, but have you stopped to consider the fact that half the kernels on a large, fine ear of corn picked promiscuously in the field might have had as their father a little, runty stalk like this one (holding before his auditors a small, weak stalk, producing an extremely growing in every corn field in Iowa? Now, then, I am sure you will see just why we should go into this five-acre seed patch and eliminate every weak stalk and barren stalk, so that the pollen which is produced in that five-acre patch we know to be pollen from good, strong, vigorous, producing stalks. Then when we pick our seed corn we cannot only study the mother plant, the stalk, but we also will know that the father of the ears of corn which we pick for seed was equally strong and vigorous.

"Now, then, the latter days of September (which is the time for picking seed) when you tell your wife that it is about time you were getting your seed corn and sling the sack over your shoulder and start off for the field, where will you go? Will you stroll around through that forty or eighty-acre field of yours? No, the very strongest, most vigorous, most productive seed you have is planted in a five-acre patch. You eliminated all the weak and barren stalks and suckers from this field. You know that the best seed corn you have on the farm is right in that small five-acre field and so instead of walking over a large area you go right into that five-acre field and soon you will have picked a sufficient amount of seed for the planting of your fields the coming season. Such a practice will substantially increase the yield and the quality of your corn crop and add millions of dollars annually to the income of Iowa."

The gospel preached during the week was practical throughout and was given the most earnest, thoughtful attention. It is no new gospel, particularly in southern Iowa, where special seed-corn trains have been run on two former occasions. The lecturers did not pretend to be telling the farmers anything new, but they did insist that the farmers should have a word of commendation for the start already made and of encouragement to keep up the good work. Practically one-fourth of the seed corn intended for use this spring is valueless. The worthless three-fourths must be discovered by preliminary testing or Iowa's corn yield will be the smallest in years. It is to keep the year's crop up to the standard and undo the hurt done by last fall's weather that the agricultural experts and the railroad officials worked together throughout the past week.

MR. W. C. McGAVOCK JOINS LIVE STOCK WORLD STAFF.

Mr. W. C. McGavock, who is so well and favorably known to the stockmen of the central West, has recently joined issues with Pres. A. C. Halliwell in the Chicago Live Stock World. Mr. McGavock will make a specialty of field work, and his headquarters for the present will be at Springfield, Ill. While engaged in conducting public sales, Mr. McGavock was a liberal advertiser in the columns of The Homestead, and The Homestead at this time extends to him its best wishes as he takes up work in a new field.

PRICE OF SHORT-HORN HERD BOOK.

In announcing that Volume 73 of the American Short-horn herd book was ready for distribution, we erred in saying that the price of it was \$1 at the office of secretary, or \$1.30 prepaid, because as a matter of fact, the price of each volume as it is issued at the office of the secretary, is \$2, or \$2.30 prepaid. Those who desire to get Volume 73 should communicate with John W. Groves, Sec., Stock Yards Sta., Chicago. Attention is called to the fact that such volumes as are not out of print from one to thirty-one are priced at \$1, or \$1.30 prepaid, but the price of all volumes after thirty-one, and including 31, is \$2 at the office, or \$2.30 prepaid.

The Oxford Hay Loader.

We are pleased to present herewith an engraving showing the Oxford combined rake and loader. This loader is manufactured by Messrs. Lasack Bros. & Co., of Oxford Junction, Iowa. It has been perfected after a use of more than twenty years and accomplishes all the work that can be asked from a loader. One particular point of interest in its construction is that it has a direct gear drive, having no chance to wear or break or get out of order. It is a one-man machine. It has light draft and all the improvements possessed by any other rake and loader. It has a special swing hinge in each

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

BARGAIN corn farm, 160 acres 35 miles from Iowa line, near Mountain Lake, Minnesota, on main line of Omaha R. R. Over 100 acres under cultivation, balance now in hay and pasture. Best of soil. Creek of running water. Fair buildings, practically new. Farm rented for 1910. Offered for immediate sale at low price of \$15 per acre. Easy terms. Perfect title. Positively no trades. Considered one of the best quarters in Cottonwood County. Write the owners, E. M. Kieron Land Co., 320 Endicott Bldg., St. Paul, Minnesota.

GOOD GRAIN and dairy farm of 170 acres for sale, 105 acres in high state of cultivation; 65 acres good pasture and heavy timber; new house, cow barn, horse barn, double corn crib, granary, tool shed and all other outbuildings, all on good foundation and well painted. Nice grove by house. 12 good cows, 8 young cattle, 4 horses, 1,400 lbs. each. Harness, buggies, wagons and all kinds of farm machinery. 5 miles from two R. R. towns. Price, \$9,000. For full particulars, call on or write J. T. Bates, Reedsburg, Wisconsin.

NORTH DAKOTA wheat and flax land. Solid section very close to new extension of N. P. and C. M. & St. P. Rys. in Hettinger County. Steam plow can break all but about 40 acres. Finest of soil and water. Offered for next 30 days at \$20 per acre; 1/2 cash, balance 4 equal annual payments at 6%. Positively no trades. Title perfect. Write owners, E. M. Kieron Land Co., 323 Endicott Bldg., St. Paul, Minnesota.

THE PLACE for you, both for pleasure and profit, is Clackamas county, Oregon. Climate mild, scenery finest, soil most fertile, markets best. Thriving county seat only twelve miles from Portland, metropolis Pacific Northwest, with connection by river and rail. For illustrated literature write Dept. O, Commercial Club, Oregon City, Oregon.

MONTANA—If you want a farm of any kind, little or big, for hay, grain, stock or fruit, irrigated or unirrigated, in a land of sunshine and good water, write us. We raise 30 to 50 bushels wheat without irrigation, and everything else in proportion. Write, stating your wants. Montana Land Co., Bozeman, Montana.

ACRES, 27 miles from Minneapolis. 80 acres under cultivation, 30 acres hay, balance timber. Fine set of buildings; good well and windmill; also running water. Price, \$50 per acre; reasonable terms. Twin City Loan & Realty Co., 348 Security Bank Bldg., Minneapolis, Minnesota.

FLORIDA—Fortunes are being made raising vegetables in Florida. Don't put a dollar into anything until you write for our valuable book of facts, showing what others are doing. We merely ask you to read the facts—that's all. Address Florida Land Co., Chipley, Florida.

160 ACRES—8 room house, 2 barns, 30x76, 20x30, silo, granary, hog house, henhouse, fruit; 15 Ayrshire cows, 2 horses, plows, binder, drill, mower, rake, roller, wagons. \$4,300; cash \$2,000. Hall's Farm Agency, Owego, Tioga county, N. Y.

100,000 ACRES of good farm lands to retail in Sawyer and Bayfield counties, Wisconsin; good clay soil. Prices range from \$6 to \$15 per acre; easy terms. C. H. Carey Land Co., 245 Endicott Bldg., St. Paul, Minnesota.

WANT A FARM in Oregon? Of course you do. Write at once for large list of Williamette Valley farms with descriptions and prices. Starr & Foster, 1022 Board of Trade Building, Portland, Oregon.

FOR SALE by owner; 320 acres extra choice unimproved land, located eleven miles from town in Hyde County, South Dakota. Price, \$26.50 per acre. J. N. King, Highmore, South Dakota.

80 ACRES, Ashland County, Wisconsin; house, barn, well, saw timber; 2 miles to station; clay loam soil; few acres cleared; \$1,200. Mettelman, owner, Gillilan Block, St. Paul, Minnesota.

CORN, wheat and all staple crops grow to perfection here in the garden spot of Oklahoma. Prices reasonable. Write for list and descriptive literature. C. E. Pochel, Newkirk, Oklahoma.

RENTER WANTED possession right off, 301 acres Traverse county, Minnesota, all plowed, will give 1/2 crop. Jesse Phillips, Elizabeth, Illinois.

500,000 ACRES of good grain land to be had under the homestead act near here; good climate. Address Business Men's Club, Columbus, Montana.

TWO VIRGINIA FARMS for sale; improved; timbered; smooth; well watered; 637 and 185 acres. J. Singleton Diggs, Lynchburg, Virginia.

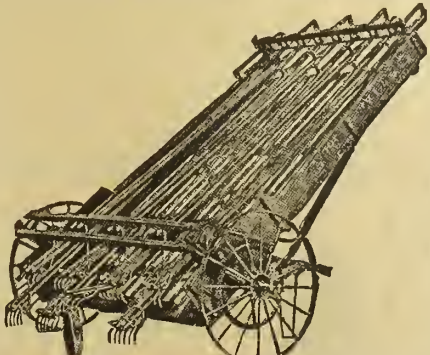
GOVERNMENT homesteads in Minnesota free to settlers. Richest soil. Other good farming lands for sale. Box 248, Duluth, Minnesota.

FOR SALE by owner, 160 acre Northern Minnesota farm, \$15 per acre. A snap. Andrew Johnson, Jr., Mauney, Minnesota.

VIRGINIA stock farm, 231 acres; 1 mile town; improved; no blizzards; cheap for cash. F. M. Rand, Keyesville, Virginia.

THREE 40 acre farms; heavy soil; close to county seat; good buildings; \$32 to \$40 per acre. H. J. West, Foley, Minnesota.

rake bar by which any rake is enabled to go over a stone or other obstruction without raising the others. It is guaranteed to pull one-third easier than any other loader that will do the same work. It will more than pay for itself in a single season in the actual saving that comes from clean raking and de-



livering on the wagons. It is one of the things that relieves the farmer from the independence of hired help and at the same time saves money and makes the housework lighter for the wife. For special descriptive circular giving bargain prices to buyers in a new community address Messrs. Lasack Bros., Oxford Junction, Iowa.

REAL ESTATE.

HOMESTEAD—Southwestern Minnesota, in the corn-belt, with its rich soil, medium and healthy climate, its nutritious grasses, its adaptability to every farm product, its moderate priced lands that have never been boomed, its schools, churches and many social advantages, presents today the most desirable location for a home to be found anywhere in America. Located in the heart of this district, with the highest individual responsibility, desiring more good farmers from the older sections to come and share this prosperity with us, we invite all interested to write us for facts as to the unusual opportunities here. In changing your location, it is important that you select the right spot. Surrounded by sharply competitive markets, every product of our farms commands the highest price. Let us help you to locate in this country. You will like it here. Send us your address today. The Schwartz Land Co., H. C. Schwartz, Mgr.; M. Glennestad, cashier First National Bank of Tyler, Sec'y-Treas., Tyler, Minnesota.

\$27.85 TO CENTRALIA, Wash. We want manufacturers of all kinds; have best shipping facilities; cheap fuel, coal or wood. We want farmers, dairymen, gardeners, fruit growers and poultrymen. We have good roads, schools, churches, and an elegant climate. For views and information, write Secretary Commercial Club, Centralia, Washington. "On the Pacific Slope."

ARE YOU looking for a home? If so, before seeing a copy of the Real Estate Journal, it has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15¢ per line. Send 10¢ in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

480 ACRE farm in Sargent county, North Dakota. Seven room house, two barns, two granaries, wells, windmill, tank. Good soil, good drainage, 315 acres cultivated, balance hay land. Near town, only 25 miles from South Dakota line. Good corn and grain country. \$35 per acre, easy terms. Kane-Kober Company, St. Paul, Minnesota.

FOR SALE—320 acres, two miles from county seat; house, barn, two granaries, well, windmill, pasture; 100 acres under cultivation, 50 acres ready to sow; \$25 per acre. 320 acres, eight miles from county seat; 120 acres under cultivation, balance pasture fenced; \$16 per acre. John Storey, Steele, North Dakota.

FREE GOVERNMENT farms. Our official 112 page book "Vacant Government Land" describes every acre in every county in U. S. A million acres vacant. How to secure 160 acres by entry. 1909 diagrams. All about irrigated farms. Price 25¢ postpaid. Webb Pub. Co. (Sta. 4) St. Paul, Minnesota.

240 ACRES, Eastern Kansas; highly improved; joining White City. Best of school, fine churches; 14 passenger trains daily; fine orchard; 100 acres timothy, clover and alfalfa. Price, \$18,500. Write for description. Bacon & Britain, White City, Kansas.

BRITISH COLUMBIA—Fort George lands; 50,000 acres fertile wheat and mixed farming lands; send for photographs and surveyors' reports. The Wright Investment Co., Dominion Trust building, Vancouver, B. C., Canada.

80 ACRES highly improved Logan county, Colorado, sugar beet, potato and alfalfa irrigated farm, with choice water rights, close to school and town, young orchard. C. H. Desch, Atwood, Colo.

WE HAVE for sale about a dozen choice farms in the very best part of Southern Minnesota at prices ranging from \$55 to \$70 per acre. Write for particulars to Mapleton State Bank, Mapleton, Minn.

OREGON FARM and fruit lands; timber and cut-over lands; grazing and irrigated lands. Write us for information. Magnus Lund & Investment Co., 316 and 317 Lewis Bldg., Portland, Oregon.

MONEY—I will pay your expenses, put you in touch with owner, and sell you land at lower prices on easy terms that is sure to advance soon. B. C. Welch, Texhoma, Oklahoma.

THE PANHANDLE of Idaho—Bonner county. Fruit, hay, mines and timber our specialties. Come and see. For information write Lakeside Realty Co., Sandpoint, Idaho.

OKLAHOMA, Custer Co. 320a grain and stock farm; 2 miles railroad town. Good improvements, well watered. \$30,000. C. A. Fisher, (Owner), Custer, Oklahoma.

FARM BARGAIN—640-acre, finest section in Clarke Co., South Dakota; \$15,000 new improvements at \$68 and 1120-acre at \$35. Write S. Sanders, Sioux City, Iowa.

STOP RENTING—Buy a farm in Stanley or Hand county; South Dakota. Prices, \$15 to \$35 per acre. Jay P. Morrill, Palace Building, Minneapolis, Minnesota.

SOUTH DAKOTA lands for sale in artesian belt, from \$15 to \$50 per acre. Live agents wanted. Call on or write Waters Land Agency, Redfield, S. D.

FREE FUEL FARMS. Mild climate, free fuel, natural gas. Prices \$20.00 to \$40.00. Address, Geo. Hill, Independence, Montgomery Co., Kansas.

CASH for property wherever located. If you want to buy, sell or exchange, write us. Northwestern Business Agency, Minneapolis, Minnesota.

FOR SALE—Farm and ranch lands in famous Judith Basin, Montana. Write me for particulars. H. M. Johnson, Lewistown, Montana.

SNAPS! SOUTH DAKOTA, North Dakota, Montana. Write us your wants. Lists and maps free. P. I. Neister & Co., Sioux Falls, S. D.

SNAP—120 acre North Dakota farm, ten miles from market, at \$7.50 per acre. Address, Martin Ugen, Epping, North Dakota.

320 ACRES prairie land 6 miles northwest of Yankton, \$30 per acre. Terms. A. E. Lindstrom, Yankton, South Dakota.

FARMS \$5 TO \$10 per acre, in central Missouri; easy terms. Palmer & Monder, Linn Creek, Mo.

FOREXCHANGES, quick sales and large list, address Room 6, Continental block, Omaha, Neb.

CASH for your property, less than 90 days. Real Estate Salesmen, Lincoln, Nebraska, 213 Funke.

KANSAS and Missouri farms for sale or exchange. W. H. Simonton, Fort Scott, Kansas.

FARM HOMES. Easy terms. Todd Bros., Salem, South Dakota.

DOGS.

FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successful coon, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

COLLIES for sale. Stamp for particulars. W. Wood, Glen Haven, Wisconsin.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

POULTRY.

ROSE COMB Reds of quality, headed by a grandson of Chicago King. Deep red, standard weight, including Milwaukee and Oconomowoc, first prize winners. Eggs, \$2; others, \$1.25; \$6 per 100. Wm. and Aug. Kissel, Hartford, Wisconsin.

SINGLE COMB Buff Orpington eggs for hatching, from my celebrated winter laying strain, scoring 92 to 91. Scientifically mated for best results. Eggs, \$1 per 15. Dr. Beaver, Harlan, Iowa; member Buff Orpington Club.

BARRED Plymouth Rocks exclusively. Large boned, good layers; 15 eggs, 75¢; \$3, \$1.40; 100, \$4. Satisfaction guaranteed. Mrs. Geo. W. Saunders, Mrs. May Stith, Marceline, Missouri.

ROSE COMB Rhode Island Reds, Tuttle strain. Pen 1 scored 91 to 93½; \$3; pen 2 scored 89 to 91½; \$2 per 15. Also few cockerels left; scored over 91. Mrs. Wm. Franz, Avoca, Iowa.

INDIAN RUNNER DUCK eggs \$2 per 13. High scoring silver laced Wyandotte eggs, \$1.50 per 15, \$5.00 per 100. Mrs. Theron Culver, Garnett, Kansas.

BARRIED P. Rocks—Prize winning strain. Large, excellent layers. Satisfaction guaranteed. Eggs \$1, 15; \$1.50, 100. Mrs. N. Paulson, Route 5, Harlan, Ia.

SINGLE COMB Rhode Island Reds. Good fertile eggs 15 for \$1; 100 for \$5. Orders filled on short notice; try me. Frank Morley, Bedford, Iowa.

WHITE WYANDOTTE eggs, \$3 for 2 sittings. Hens mated with cockerel direct of Fishel. Address Mrs. Theresa Oswald, Bridgeport, Wisconsin.

SINGLE COMB white, black, buff, Orpington, and Barred Rock eggs. Best known strains. Send for mailing lists. Spurrin, Panama, Iowa.

GOLDEN BUFF Leghorns, Single Comb winter laying strain. Eggs 15, \$1; 50, \$2.75; 100, \$5. John Danielson, R. 1, Lockridge, Iowa.

ROSE COMB Rhode Island Reds; Eggs \$1.75, 30; \$5.00 per 100. Choice stock, farm range. Mrs. John Holmgren, Rolle, Iowa.

WHITE WYANDOTTE—Prize-winning strain. Eggs, \$1 per 15; \$6 per 100. M. E. Nourse, Fairbank, Iowa.

PURE INDIAN Runner Duck eggs, thirteen for one dollar. Anna Pratt, Beaver Crossing, Nebraska.

R. C. B. LEIGHORNS, exclusively. Eggs \$4 per 100 or \$7 per 200. Mrs. J. J. Griffith, Lorimer, Iowa.

ROSE COMB R. I. Red eggs, \$1 for fifteen; \$5 for hundred. Mrs. James Truelsen, Gilmore City, Ia.

INDIAN RUNNER duck eggs, 10 cents. White Wyandotte circular free. M. L. O'Neil, Oelwein, Ia.

BARRIED PLYMOUTH ROCK eggs, \$1.50 per 15 or \$5.00 per 100. Aye Bros., Blair, Nebraska.

TOULOUSE GEESSE and Pekin duck eggs for hatching. Frank Martin, Clare, Iowa.

SINGLE COMB Reds. Eggs, \$1 and \$1.50 per sitting. Hites Bros., Beacon, Iowa.

SINGLE COMB White Leghorns. Eggs \$1 per 20. M. E. Page, Madrid, Iowa.

GRAND ROSE COMB Reds. Eggs \$1 up. B. Russell, Lamoni, Iowa.

HELP WANTED.

MEN WANTED—To prepare for the next railway mail, postoffice carrier-clerk, internal revenue and custom house examinations. Salary, \$50 to \$125 monthly. Rapid advancement to higher government positions. No "lay-offs" because of poor times. Short hours and annual vacation with full pay. Over 15,000 appointments to be made during 1910. City and country residents stand equal chance for immediate appointment. Common education sufficient. Political influence not needed. To advertise our schools, we are preparing candidates free. Write immediately for schedule showing dates and places of the spring examinations. Immediate action is necessary. Franklin Institute, Dept. R.25, Rochester, New York.

WANTED—An elderly soldier, who is soon to locate on his homestead right in the Standing Rock reservation, wishes to secure the assistance of a young married couple, the man to help in opening up the claim, the wife to cook and look after the household duties. To the right parties he will give the use of the land for five years. Address M. L. W., care of this paper.

GOVERNMENT farmers wanted. Salary \$800 yearly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42 F. St. Louis, Missouri.

WANTED—Railway mail clerks; \$100 and more monthly; 2,000 to be appointed. Examinations soon. Write for application form 11 and full particulars. American Standard Institute, Kansas City, Mo.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination. Write for schedule and free trial lesson. Ozment, Dept. 42 R. St. Louis, Missouri.

SEEDS AND NURSERY STOCK.

FOR SALE—500 bushels each, Red River Valley, Early Ohio and Burbank potatoes, 50¢ bushel, choice stock. C. Oakes, McArthur, North Dakota.

250 STRAWBERRY plants, \$1, in three best varieties. Wholesale prices on nursery stock. Catalog free. John F. Dayton, Waukon, Iowa.

BUNKER'S Yellow Dent. Fire dried; tested; high quality; high price. Sample, 10 cents. F. Bunker, Kilbourn, Wisconsin.

SPECIAL OFFER—300 leading strawberry plants, \$1.35 express paid. W. H. Koell, Hampton, Iowa.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and hooks free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

BUSINESS OPPORTUNITIES.

LARGE RETURNS from California oil investments. California produced 52 million barrels in 1909, worth \$30,000,000. Highest authorities estimate her production will reach 75 million barrels annually. We offer stock in high grade, producing, dividend paying, oil properties. Write for descriptive matter, prices, terms and full information. Brown-Walker-Simmons Co., 602 Couch Bldg., Portland, Ore., or 615 Crocker Bldg., San Francisco. Reference, Banks and Commercial Agencies.

AGENTS WANTED.

AGENTS WANTED in every community to sell "Vigor Tonic"—guaranteed best all around stock powder on market. Liberal commission. Farmers' Co-operative Remedy Co., Peoria, Illinois.

PONIES.

FOR SALE—25 Shetland ponies, imported and registered. Mares and geldings broke for children. Stallions to lease. Price list ready. Geo. H. Simpson, Wheaton, Ill.

CATTLE.

GUERNSEYS—"The Butter Breed"—choice youngsters; both sexes; from official record and advanced registry ancestors. A. H. Hinman, Allen-ville, Wisconsin.

MISCELLANEOUS.

RURAL FREE delivery and our Mail Box Trolley saves much time and many steps. Write us distance from house to route. Biddison Mfg. Co., 1516 Williamson St., Madison, Wisconsin.

The Hired-Help Problem

By F. B. Swingle

THE Macedonian cry: "Come over and help us," is heard with greater insistence every spring from the farms where more than five million men are needed to help the owners start the season's work. Later comes the harvest rush, when many thousands more will be needed for a few weeks. But the average farmer requires but one or two men to work by the month, and trusts to his lucky star to be able to get harvest help somewhere. He is generally lucky if he does get them, for it usually comes to pass that he and the "month hand," with the help of a little boy, do the whole season's work by plunging into it sixteen hours a day. The hired man may be induced to stay, by a raise in wages above the original bargain, or perhaps several raises. The boy has to stay and see it through because he is the boy and can't get away. But he vows that when he is a man he will go, and that nothing can induce him stay at a business that keeps a boy milking cows until bedtime while the hired man doesn't have to milk cows because he never learned how. Wise guy, that hired man!

If that boy meditates along such lines of thinking, the chances are that he will soon cut loose from the farm, and two hired men will be needed where one worked before. They will also be harder to get, harder to satisfy, and harder to hold. And here we have the present status of the farm-labor question. It is not the fault of the man, nor of the farmer, nor of the boy who leaves the farm home. It is a condition of things. It is a sad condition, in some ways, but no one can be particularly blamed for the state of affairs. The commercial and manufacturing interests are enormous this season and swallow up young men who are willing to work at good wages, faster than the country can send them to the city to learn trades. Foreigners, as well, see no inducement toward the country when the shops offer twice the wages paid for farm work, ignoring the matter of board and laundry bills. So that the agricultural districts are losing many of the good young German and Scandinavian farmers who are some of the best in the world because they have been well-taught in the very intensive methods which we need here. For, when he can earn \$3.00 per day driving a team for a contractor or a manufacturer, why should a poor young man go to the country for half the amount? Ten years later, he may see things in a different light, but he does not now, and in ten years he may be so anchored in town that he can not easily move.

Meanwhile, the labor situation is becoming so serious in the adjoining country that farmers are selling parts of their holdings, others are renting to sugar beet companies, and many dairymen are hard pressed to get their work done. A large dairyman living a few miles west of Racine, Wisconsin, has become so harassed and discouraged by the thought that he may go out some morning and find no help to milk his large herd of a hundred cows, that he has given up the fight and is selling his fine herd just while they are making him a prosperous man. He has paid his men \$30 and \$35 per month with board and other extras; but they have struck three times lately at times when they were needed most. He says he has had enough of it.

Mr. Jud Mason, near Elgin, Illinois, has a herd of one hundred cows that net him \$6,000 a year. This is good business, but Mr. Mason declares that there is but one thing to prevent his farm from yielding \$20,000 in milk alone. That one difficulty is the scarcity of the right sort of help. He says that dependable dairy hands don't seem to be on earth any more, in numbers to be relied upon. Still, it is not Mr. Mason who feels this lack most, but the smaller farmer away back from town who must do all the work himself when his one man quits in the middle of the season.

It would seem that this is a com-

mercial problem. Few hired men are critical of the ordinary board and accommodations of our farmsteads nowadays. It is more a matter of wages, hours, recreation, and other differences between town and farm life. Our scale of wages will probably have to be raised still higher, and if people will prefer town life to the work of the farm they must pay the price—in milk and butter money. Some of them would not like to milk cows and perform the other attendant labor of a dairy farm. Well, then they must help to pay the fellows who are willing to do this work.

Hiring by the year is often a more satisfactory arrangement than by the month, and many farmers are now finding a greater success from hiring man and wife and furnishing house, garden, and other commodities to the family so engaged.

Smaller farms are one solution of the trouble, but smaller enterprise, smaller returns and smaller profits necessarily follow, unless a highly profitable special line of farming is followed. This requires specialists for its operation, and higher wages may be paid.

In a recent interview with that most stirring progressive farmer, James J. Hill, he spoke strongly of this matter of special opportunities, special training and special requirements of today as compared with those of a generation ago. Half our people live in the country, but it is only recently that we are waking to the fact that our own boys were not getting half the special preparation for their work as agriculturists as the town lad receives for his trade or profession. Our newer systems of training in interest and efficiency are already being felt in some sections. Graduates from county high schools and the university agricultural courses take a new attitude toward farm life and work. There is an added dignity which will never be lost to them. And if a good live boy finds that there are paying ideas which he can work out at the farm he will be bound to stay and work them out, and about one-half the problem of farm labor is eliminated when the boy decides to stay at home. Furthermore, the specialist plan appeals more strongly to the average hired hand as well. If a man is engaged in breeding Guernseys or Shropshires or Percherons or a new variety of corn, or strawberries, or carnations, he is more likely to speak of his work with pride than as though he were able only to say that he was working for a farmer. A valuable man likes to do a thing well, and to be able to say that he has done something. Such men deserve good pay and we ought to be in position to afford good wages for men who do certain things well. This is the basis for the high wages paid to skilled labor in cities. It is quite possible that we may take some hints from our rival bidders for labor in the shops, in being more able to offer better positions carrying better wages to a better class of skilled farm workmen, furnished to us during the next generation by a practical system of farm schools and colleges. Let us think about it.

THE DISEASES OF THE PIG.

To the Editor of The Homestead:

Everybody has read the story of a small boy, who, having been told to write a composition on the subject of Snakes in Ireland, disposed of it briefly with, "There are no snakes in Ireland." We are inclined to treat our subject in the same manner, and say that there are no diseases of the pig.

The pig may have ailments. But there will be derangements of the system, and due in large measure to overfeeding, underfeeding, unsuitable food, or faulty housing. The effects of these derangements may result in reducing the vitality of the pig and thus leaving it in a condition favorable to the reception of disease germs. They may, and often do, result in the death of the animals. But they may be remedied or prevented

by rational methods of feeding and protection from dampness or drafts.

The pig is subject to scours at two stages in its existence. The first comes during the first few weeks of its life. Overfeeding of the dam is a common cause. Damp beds are even more common ones. In either case the remedy lies in the removal of the cause. Where treatment becomes necessary perhaps as simple and effective a remedy as may be used is two or three drops of laudanum given in a teaspoonful of castor oil to each of the affected animals. The laudanum serves to check the trouble while the castor oil has a soothing and healing effect. The laudanum may be given in milk but not with as satisfactory results. As a general rule, however, the giving of medicine to a pig is uncertain in its effects and the treatment would much better be in the way of preventive measures.

The other stage of the pig's existence at which scours become common is later at a time when it is turned out to pasture. It will usually be found to occur when the pigs are permitted to get out into the dew-wet grass in early morning. The cold, wet grass chills the stomach and bowels of the pig and a derangement is the result. As in other cases, prevention by keeping the pigs up until the sun has dried and warmed the grass is the better plan. C. C. C.

In Nemaha county, Neb., a bright farmer has found a satisfactory substitute for high-priced corn in fattening hogs. He says that the cheapest way to make pork is to raise ruta-baga turnips and feed them in connection with clover and a little corn to hogs. Three bushels of corn with this feed will take the hog through the winter all right. It is claimed that the feed makes good pork, too, and at a low price. Beets have also been used as a substitute for corn with satisfactory results. The hogs eat them with great relish and take on fat at a rapid rate. In starting hogs on this feed the ration should be one-third each of corn, alfalfa and beets, the corn and alfalfa being gradually reduced until the hogs are on a beet diet.

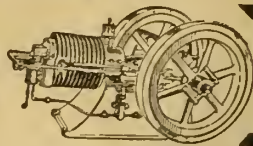
It has been suggested that when paper is made from cornstalks the farmer can feed his newspapers to the cow and let bossy digest the news for him. In that way he will get the cream without wasting time looking through a lot of stuff he doesn't care about.

A Kansas man bought a lot of chickens early in the winter expecting he would be kept well supplied with eggs,

but so far not an egg has been laid. He says he is going to buy an egg and take it home and show it to the hens as a sample of what is expected of them.

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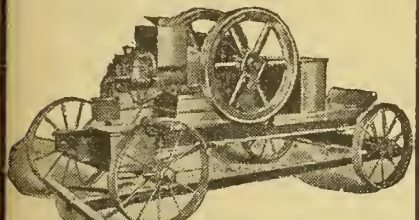


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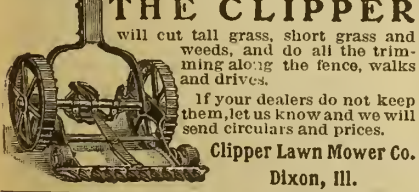
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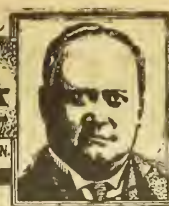


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FARM FUN & PHILOSOPHY

BY E. N. BAILEY



Springtime.

The humming bee now is humming his hum, the robin is building its nest.

The brindle cow rears in the soft spring air, And scratches her framework with zest. The crocus is now beginning to croak, we hear the wild goose make its call.

We shake up the rugs to get rid of the bugs, But the humbug beats them all.

The political aspirant gets in his work and tells us for what he is standing.

He will tell you his aims and show up his claims, While his chest and his mouth are expanding.

His opponents, he says, have started some lies, and are showing unutterable gall.

With their measly old tricks, the poor luna-"ticks," But the poli-"tick" beats them all.

Oh, when will the politic cease to "tick" and the humbug cease to "hum?"

They come through the door with a rush and a roar Like the sound of the big bull drum. They whisper in winter and talk in the spring, through the summer and autumn they swarm, As batting their eyes they come in disguise, And their slogan is always "reform."

What is the difference between a fellow on a "high lonesome" and a farmer? One "slews" his tile; the other tiles his slough.

Why is a dog's tail like a wildcat bank? Because it is in secure.

What is the difference between a summer girl's dress and temperature? Temperature is lowest when you go in bathing and highest when you dance, the dress is not.

To cure roup. The hen goes around with her mouth open. Stick a baked potato on her bill to hold it shut, and then drive a rusty nail through her foot. This will give her the lockjaw so that she cannot open her mouth after the potato is removed.

Sure cure for "hollow horn." Plenty of clover hay and corn and oats mixed together with a sprinkle of oil meal in it to make the "hollow" slip easy. They cure this old foggy disease as by magic, and will also cure the cow that loses its cud.

Who ever saw land that was good for anything for farming that wouldn't make good mud when mixed with water?

To Open a Bureau Drawer.

Some people have trouble in opening or closing the bottom drawer of a dresser or bureau, yet it is easily done if care is taken to begin right. You should get down on one knee and leaning your head against the top drawer take the bottom one by both handles and with a sudden jerk exercise equal strength with each hand. Your head will push the top drawer in three inches farther than it should go and the sharp frame above and below the drawer will cut large creases in your forehead and chin.

Now let go of the bottom drawer and catch a handle of the top one; do it quick so it can't get away. One side of it will come some when it will wedge, and when you pull on the other handle it will come off, of course. By this time you are on both your feet, anyhow, so you can kick the end of the drawer that sticks out clear through the back of the dresser, but the other end won't go back until you kick that too.

Of course, one end of the drawer will be ahead, if the other is not, so you should pull the whole thing out into the room, and as the back of it is all off by this time it is in shape so you can get at it right. As you are lame by this time and both shoes pretty well played out, go out and get a stick of cordwood, or, better yet, get two, for you may wear one out. Drive the drawer in one end at a time and if either end goes too far step around in front of it and drive

it back. An hour or two ought to be long enough to get the drawers all where you want them.

By this time the frame will be bent enough and the joints loosened sufficient so that by sitting down squarely in front of the dresser you can pull the lower drawer out easily.

Care in these little things often saves a lot of hard work. Keep perfectly cool and you will be able to strike a harder blow with the cordwood and make every blow count. A dresser opened in this manner once or twice will hardly ever require more than a minute to get the drawers all out at once.

Must Have Traveled Some.

A wag caught a turtle and in a spirit of fun cut a date in the shell with the name of an old neighbor who had died several years previously. He was one of the slowest mortals that ever walked, and by mistake the wag dated the shell a year after the old gentleman had died. One day the turtle was found and the neighbors gathered around as though they had received a message from the dead. Finally, a nephew of the deceased, a droll sort of fellow, came up and after looking the turtle over said, "Well, I always expected uncle Bob to go to heaven, and as he was a spiritualist I also expected him to send back a message, but what beats me is, how in blazes did he ever manage to overtake that turtle to mark it?"

A Bull on the Bull.

This is the time of year that the bull picks the gentle, trusting farmer up on its horns, tosses him up in the apple tree and when he comes down, walks on him and blows ensilage up his pant leg. It is the natural playful propensities of the bull brought out by inactivity and an overflow of animal spirits. Put a five-ring halter on the bull; of course, he already has a ring in his nose; snap an ordinary halter strap in the ring, run it through the upper ring in the side of the halter and tie it tightly to the bull's tail. When he gets ready to cavort he will roll his tail over his back, hump up and snort, and lower his head. This will pull on the strap and turn him around so he will run his head into the barbed wire fence two feet and eight inches. This will make him madder than ever. (He will roll his tail higher and his head lower, narrow the circle he is running in until he will step on his own heels; then he will begin to hook himself in his rage, and still going faster and faster, finally fall down.

Now is the time for the farmer to arise in his majesty and laugh long and low. It is as well not to laugh prior to this, as there might be some slip, and laughing is considered premature in such cases. He should then select a nice, smooth stick of cordwood, or a neckyoke, according to the amount of grooming he thinks the bull needs, or how much energy he thinks he ought to expend and then with all due respect to the Society for the Prevention of Cruelty to Animals, sail in.

After a seance of, say a half hour, if the bull still remains frolicsome, run the strap through the other side of the halter and allow him to wind himself up again. He can have his bull either right or left handed as he desires, and the possibility of having a seance in which he is the leading man and the bull the audience presents a favorable aspect to any farmer who has ever been walked on by his herd leader.


He should be calm, but not forget to spit on his hands when he grasps the neckyoke so it won't slip. As he will probably kill the bull, anyway, he will find the steak well-pounded, beautifully mottled and tender and juicy.

Lewis' Single Binder straight 5c cigar made of rich, mellow tobacco.

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Every notable idea, every important step forward in farm wagon building, originated with the Moline Wagon Company. Moline Wagons have always been the strongest, most improved, and most durable. And now we have perfected a wagon that is in every way vastly superior to every wagon ever made—a wagon that surpasses the most perfect Moline of former years, with 14 important improvements—all new inventions, and used for the first time in the

JOHN DEERE MOLINE



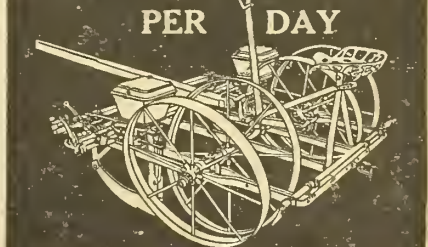
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It is made of the same iron-strengthened, weather-cured hickory and oak, which has made Moline Wagons famous for their durability—it is the same light-running wagon as of old—but, its strength and convenience is doubled. Service considered, it is the cheapest wagon you can buy. The expensive wagon is the one that costs a few dollars less now but needs repairs every few days and is all gone to pieces in a few years. If you need a wagon, speak to your dealer at once about the John Deere Moline Iron-Clad. There will be a demand for three times the number of wagons we can build during 1910. If you aren't even thinking of buying a new wagon now, write for our illustrated booklet. Post yourself on this remarkable wagon.

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drops all shapes and sizes of seed accurately. Never misses, never fails, never cuts or cracks the kernels. Can be depended upon day after day, season after season.

Wheels set at angles, pack dirt at sides, leaving loose ridge on top, allowing young shoots to push through easily. Harrowing levels ridge and saves one cultivation.

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Sir James Crichton Browne says—eat more oatmeal, eat plenty of it and eat it frequently. 59

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WITH THE EDITOR.

Sometimes our readers ask questions which it does not seem worth while to answer—as when a young woman asks if she should consider a young minister has "intentions" because when away on a trip he sent her a picture postal card. At times it seems as if the circle might be benefited by public answer of reply asked for—as in the case of the following letter:

Can you tell me of any book or magazine which tells one the correct way to serve meals? I know the best way would be by association with those who do those things just right. However, I am away from home very seldom. I have a large family and, though I try to teach them ordinary table manners, I find myself busy just in preparing the meal. So much attention is given now to the way meals are served that, though I can bake and cook well, know how to have the table clean and tidy, yet in the serving there is much I should like to know. Is there any book that gives directions in general and answers those questions one might need to ask? I believe a few words in the Home Department would be instructive if given by one like yourself. To begin with, just take an ordinary meal and tell just how it should be served by the girl or, perhaps, one of the older children—the part taken by the host, hostess, etc., when there is company or with one's own family. I think articles from everybody in general would be helpful. Please pardon me if my suggestion is not in order, but I was thinking I might not be the only one among our readers who feels deficient in this branch and who wishes to do just right in entertaining.

There are very many families in America, this land of rapid improvement in material circumstances, where mother or young daughters find themselves in the quandary of the writer of this letter. The simple ways of our fathers are not good enough for many of us, and it is all right. In pioneer days simplicity was necessary and food was eaten simply to satisfy hunger. With improved circumstances we dine where our fathers fed—and our manner of serving food indicates the change.

In the first place the table service calls for attention. The table cloth should be as white and as dainty in appearance as the circumstances of the family permit. There is nothing more demoralizing to gentle table ways than soiled table linen. And for special occasions there should always be a finer cloth and napkins. By the way, even where people live very simply, napkins should be used as an aid to daintiness and a training in the ways of polite society.

The next point to be emphasized is the table service. Dishes are cheap nowadays, so is plated table silver. If a woman is determined—I say determined—she can have a set of pretty dishes and silver-plated knives, forks, spoons, etc. If the family purse makes it inadvisable to use these every day they should be used frequently—on birthdays and little festal occasions, if not on Sundays regularly. The idea is to accustom the family to handling dishes, etc., with care, and of encouraging them to observe little formalities sometimes neglected in the rush of working days and working ways.

Not long ago I had a maid who had evidently never been in a house where the table was nicely set. She dumped the dishes down any old way, here and there. Plates, knives and forks looked as if they were chasing each other, or had been and had suddenly grown weary. The very first step in laying a table is to place the plates at regular distances, and beside them the knives, forks and spoons needed for each person.

At dinner in an ordinary house the plates will be piled together and set before either father or mother—whichever serves the meat. The knife and fork and spoon and napkin will then mark the several places. In some homes the knife, fork, and spoon

are placed all on one side—the right. In others the knife and spoon are to the right, the fork to the left. And if these articles are duplicated the same order is followed. All the articles to be used for the meal should be in place before it, if the housewife's table service admits of this. Where it does not, after the meat course the knife, fork and spoon should be removed with the plates and quietly returned for the second course.

In the home where a maid is not employed simple ways obtain almost of necessity, but where there are boys and girls growing up they can be trained to take turns occasionally in serving more formally. I have known homes where these days were greatly enjoyed by the young folks who had been allowed to decide on the menu and to put on their best clothes. Next week I propose to tell something of how a formal dinner was served in such a home. This week all I shall speak of is the home dinner where the ways of polite society obtained, but with simplicity.

As stated, the plates are placed before father or mother, and there the meat platter is laid, flanked by the carvers. On a portion being served the plate is passed to some other member of the family before whom stand the vegetable dishes. Bread, butter and the little relishes which accompany the meal may be placed upon the table and passed by the members of the family. The custom of crowding the table with a variety of jams, jellies, pickles, etc., does not obtain in homes where the usages of society are observed.

When the meat course is finished the dishes should be removed to make place for the dessert. The maid or member of the family acting as waiter, should first remove the meat platter, then the vegetable dishes, then the individual plates, each one with its knife and fork, unless the knives and forks have been first removed by themselves to facilitate removal of the plates by piling them one upon another—this should not be done at a formal dinner, but is permissible at an informal meal where there is no maid. All dishes should be served from the left and removed from the right side of the diner, and the service should be rendered as quietly as possible.

The dessert, if it be a pie, or a dish pudding which can be served at the table, is placed before the master or the mistress, who serves the individual portions and hands the plate to the maid to be passed on, or to the member of the family seated nearest to him who performs the same office. Here it may be well to say that it is a matter of choice whether the person receiving the dish shall pass it on until every one is served or retain the first dish and pass on the second—the latter always seems to me the most courteous. If the dessert is put on the plates in the kitchen it is served to each person from a tray.

As the great majority of people prefer their coffee with their food the custom of so serving it obtains in very many American homes even where the service is otherwise formal. The mistress usually pours it, the cups and saucers being placed on a waiter at her side. In the home it is customary for her to add the cream and sugar, also when the guests are intimate friends of the family.

In a general way breakfast and supper are served much as are dinners. The cereal dishes at breakfast are removed as are the meat dishes at dinner. At supper in many homes no change of plates is made. The stewed fruit, etc., which follows the more substantial dish is served in small glass or china dishes and the

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IT IS THE CHEAPEST
because best—best in material, best in workmanship, and best for wear. Those facts are also true of the entire Gold Cross line. When you want a high grade satisfactory rubber boot or shoe, insist that you be shown goods bearing the Gold Cross Mark. It insures you quality and service. If you can't secure Century Boots from your dealer, write us. Send his name and we will see that you are supplied.

BEACON FALLS RUBBER SHOE CO.
New York Chicago Boston

When writing to advertisers please mention this paper.

small bread and butter plate used for cake where cake is used.

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY.

Have more than thou showest,
Speak less than thou knowest,
Lend less than thou owest,
Learn more than thou trowest,
Sit less than thou throwest.

—Shakespeare.

If folks would be beloved, they lov-
able must be.—Goethe.

A HOME-MADE BOOKCASE.

Generally, mother's leisure moments for reading are few and far between, but when the opportunity does present itself, she wants her books and papers and magazines where she can easily lay hands on them. A bookcase can easily be made in three hours at the small cost of forty-five cents. First, take a piece of pine, chestnut, cypress or oak six feet long and eight, nine or ten inches wide, as may be desired, and cut it into four lengths, each a foot and a half long, to serve as shelves. Have the ends perfectly square and the boards of even length. Plane and sand-paper the shelves. Rip an eight-inch board four feet long into four strips, each two inches wide. Plane and sand-paper these strips. Place these strips on the bench side by side, square them up as if they formed one piece. Then measure back four inches from each end and place two dots on each strip to mark where you want the screws. You have now marked where the screws go to hold the top and bottom shelves. Divide the intervening forty inches so as to place the second and third shelves correctly. Prepare two strips an inch wide and forty-four inches long, which are to be placed between the legs at either end. Bore holes in legs and strips for screws. Stain and apply two coats of wax.

PRAYER FOR UNSELFISHNESS.

Help me to do away with selfish thought,
Performing what I ought,
And thus to grow from hour to hour
In hidden power.

Help me to bear my heavy load,
Not needing good
Nor need of empty praise from lips of
men
To strive again.

Grant me to hear the other's urgent
cry,
My want cast by,
Not noticing Ambition's voice
Nor my own choice.

When others, superseding, reach my
goal,
In swift control
Grant me to give them wishes of good
joy
Without alloy.
—Charles C. Tillinghast, in the Watch-
man.

HOUSEWIFELY HELPS.

Soap Hint—Soap improves with keep-
ing, and it will be found economical to
purchase it in large quantities.

Old Blankets—Wash, patch and cover
with white cheesecloth, tack, and you
have a better summer cover than you
can buy.

Keep tacks in a wide-mouthed bottle.
It is much handier than leaving them
in the paper packages, which some-
times open and spill out the tacks.

When the atmosphere is damp, it is
almost impossible to keep salt from
caking. Try the following suggestion,
it is sure to help you: Put in each
salt shaker one grain of rice. It will
absorb all moisture.

For a kitchen apron no material gives
so long wear and such general satisfac-
tion as German printed linen, which
comes in plaids and stripes. The line
has a smooth surface, which keeps in
condition longer than the usual ging-
ham.

FROM THE HOME COOK BOOK.

Currant Loaf—One teaspoon of but-
ter, one cup of sugar, one egg and lit-
tle over one-half cup of milk, one and
one-half cups of flour, one teaspoon of
baking powder. When well mixed add
three-fourths of a cup of currants
dusted with flour. Bake in a loaf.

Scotch Scones—Sift together thor-
oughly two large cupfuls of flour, one
teaspoonful of salt and one teaspoonful
of saleratus. Pour in sour butter-
milk—the more sour, the better—to
make the dough the right consistency
to handle. On a floured board roll out
about a quarter of an inch thick. Cut
the scones round or square and bake
on both sides on a hot griddle without
greasing. Serve hot with butter.

Cabbages may be kept fresh and
crisp until late in the spring by re-
moving the outside leaves and stems
and putting them in large paper bags
which are not torn. After putting in
the cabbage, the paper sacks or bags
should be well tied, to secure protec-
tion from outside air, then hung on the
cellar walls. All other kinds of vege-
tables can also be preserved in this
way.

AMONG OURSELVES.

After all these years it would seem
as if everyone must know that this
Home Department is edited by a real
woman, but among the letters to be
used today are two which were ad-
dressed, "Mr. Editor." I comfort my-
self by thinking that the writers must
be among the very newest of our new
subscribers. Books have not had

quite their legitimate share of our at-
tention lately, so today they shall
come first.

In reading a recent issue I happened
to find a letter Among Ourselves that
I decided needed an answer. The
writer signs herself S. A. C. and she
gave my beloved books such a dig I
am compelled to speak in their defense.
Surely she cannot mean that all fiction
should be struck from our reading list.
Life would be sad, indeed, if there
were no books to brighten it, and in
striking out fiction even poor old "Pil-
grim's Progress" would have to go. I
am afraid S. A. C. has been reading a
poor grade of fiction, and she did a
good and wise thing when she stopped
fifteen story papers, for, to tell the
truth, I do not know of that number
of story papers that would do for a
growing family to read. Most of the
cheaper grade of periodicals are sup-
plied by what the literary fraternity
call "pot boilers," and that is what they
should be in every sense of the word.
The trouble is, so many people spend
precious time reading them. And far-
ther on in her letter she denounces
love stories. Now I will tell you what
I heard a minister say, and he was a
man on the top rounds of the ladder
of success. He said, "No book is com-
plete without a little bit of love, for
love governs the universe and makes
history. Even our Bible is love from
cover to cover, and the book of Ruth
one of the most beautiful love stories
ever written." I agree with him from
the bottom of my heart. Life would
be more desolate than the Sahara
desert without books and love. Dear
friend, you were wise to drop your
cheap novels, but supply the vacant
place with good, wholesome reading.
Try Mrs. Alden's books, also Ralph
Connor's, and dozens of others I could
name, or, if you do not care for modern
writers, get Dickens, Scott or Hugo.
If you love reading select good books,
read them to your family and they will
surely rise up and call you blessed.

I agree with N. O. She especially
approves of "reading with the family."
It is one of the surest ways to build
strong family life to read and talk
over the things read. In homes
where the custom does not obtain it
is well to begin with well-chosen ar-
ticles from newspaper or magazine,
read perhaps after dinner while the
family is resting or after supper
when the day's work is done.

We gave considerable attention
last week to the wisdom or non-wis-
dom of a woman marrying a man
much older than herself. The sub-
ject will be closed for the time with
two additional letters, one on each
side. And as it is more pleasant to
end with happiness we shall first
hear from "One Who Has Suffered,"
—an extract only from a long letter:

I complained of feeling ill and weak
one day when baby was a couple of
months old. My husband said there
was no use complaining. I had to
brace up and do my share of digging,
for the size of our family demanded
it. He was getting well up in years
and I was young yet. And I have been
"digging," with no time for anything
but hard work, outside as well as my
housework. My music is where I left
it fifteen years ago, although he
solemnly promised that nothing should
prevent me from going right along with
that. I never have a chance to visit,
although my neighbors all come to see
me. Not one stitch of sewing has ever
been hired done, no help only when I
am in bed. He has all the work he
can do without carrying water, and I
am so much younger, anyway, that it
doesn't hurt me to do that. My dear
young lady, I advise you to marry a
man more your own age. To always
hear "You are so much younger" soon
grows extremely monotonous, and then
your ideas would be more harmonious.
Your children will not need to wonder
at their father's wrinkles, gray hair
and a good many other things I do
not care to mention. Your mother is
right, eighteen or twenty years is too
much difference. You may not notice
it now so much, but after ten or fifteen
years the difference would be very
noticeable, even to you. And if you
are a home-loving girl, get a home that
at least promises to be more worth
while. The man may be all he seems,
but let him get a wife more his own
age and he will be a better husband.

This may be an extreme case, but
one should consider all the facts and
probabilities also before coming to a
decision on such an important matter.

Now, Mrs. Provo Utah's word:

The letter that interested me so I
am encouraged to write was the one
from the young woman seeking advice.
There is an old saying, "It is better
to be an old man's darling than a young
man's slave," which I think is true,
as I married a man who was much
older than myself. My parents thought
the same as this mother, that there
was too much difference in the ages,
but they are perfectly satisfied now.
We have been married ten years and
are perfectly happy. We have three
boys and one girl to bless and brighten
the home. Yes, I think it would be all
right for them to marry and be happy,
if they think they could stand by each
other till death shall part them.

Naturally we wonder what the
young woman will do. I wonder if it

These FREE



These FREE

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Right over Wall Paper**

If you have a papered wall and want
to redecorate without removing the paper
—just put Alabastine right over it.

This can be done with most satisfactory results when the paper
is firm on the wall, and is not printed with aniline dyes or in bronze
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Alabastine

The Stylish Wall Tint

Alabastine has none of the bad features of kalsomine. It is a
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Any other material offered you as "just the same," will be a dis-
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Alabastine is just mixed with cold water and applied with
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easy to apply.

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Stencils absolutely free. Write today for this
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At no cost to me,
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A clean, healthful fuel—the heat element of the mix-
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waste, no clinkers to clog, no smudge nor smoke—no
ashes to sift.

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"The Ideal Domestic Fuel"

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clean—light in weight—lightens housecleaning work.

Men like it because it costs less than hard coal and
goes farther—saves one-fifth of the fuel bill.

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and can be used in any stove, range, heater or grate
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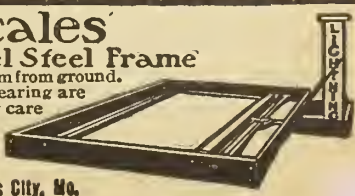
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Channels are seven inches which is the height of platform from ground.
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is too much to hope that she will tell cides and why? She ought to—as a
us when she decides what she de- little thank offering.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

SECOND QUARTER.

Lesson I.—Matt. 9: 18-34.

April 3, 1910.

THE POWER OF FAITH.

Four miracles are set together in this paragraph. Like jewels, they lend their radiance and beauty to each other. Each enhances the other's value. From the facets of these gems flash unexpected rays, revealing Jesus' thoughtful and sympathetic attitude toward those who stand in moral and physical need.

A Hebrew mother is bending over her daughter, and, with the assuring accents of love, is saying, "Do not be afraid! Your father has gone to bring the great Rabbi. He will cure you." Calmed with this hope, she dies, but the fragrance of Easter lilies is in her little room. It is a picture of how all Christians die. They wait the coming of One who is greater than death, and in this blissful confidence, yield their spirits.

At the same instant, with eloquence of love, the father is asking the Master to come. Jesus starts at once. No preparation is necessary. With him theory and practice are interchangeable terms. What are his emotions as he sets out to perform the greatest miracle he has yet wrought! Yet there is no need of haste—deliberation is more becoming. It will also test the strength of the father's faith and confirm it. So Jesus allows Himself to be delayed on the way.

It would seem that the woman with the hemorrhage might be required to wait a bit. A few hours could not be much of an item to one who had waited twelve years. But Jesus is considerate of her in her self-secluding melancholy. She is a ceremonial and disgraced exile from the house of God and the company of her friends. Jesus lets her purloin her cure as she plucks the tassel of his robe. Under her imperfect knowledge, false shame, incomplete trust, Jesus sees the germ of faith and honors it. It is in appearance only that the cure is worked unwittingly by Jesus. He shows her that she has more faith than she thinks she has. So she comes shaking with fear, but goes bounding with joy.

As Jesus comes to the threshold of the home to which He has now been brought, He rejects the harsh and terrifying word "dead" and substitutes the gentle word "sleep." One whom he has the purpose to awaken is, to all intents and purposes, only sleeping. But his vision is wider than the little room and the single instance. As Lord of Life, that moment He stands related to that great and, to us, solemn company we call "the dead." How tame and untimely to him sounds note of death flute and howl of hired mourner. He has no pique against them, and will not rob them of their funeral fees, but to him they have no use or place. Their hollowness is revealed in their laugh, which all unconsciously to them attests the realness of the miracle. Again the tenderness of Jesus has incidental revelation. As to the woman, he said, "Daughter," so in this instance, he says, "Come, little girl!" Ordering food, as Jesus does, is no dropping to the level of the trivial, as one might think. It is evidence at once of the reality and completeness of the restoration, and that the supernatural never unnecessarily supplants the function of the natural.

"Have mercy on us!" That cry of the blind men has entered as a permanent part of the solemn litany, and is credited with varying feelings by millions. The importunity of the men is evident from the fact that they follow Jesus into the house where He is lodging. Jesus still further tests them by the catechetical exercise, but His genuine consideration is shown when, as a sign to those who could not see His benignant face, He touches their sightless eyeballs with

the tips of His fingers. The healing of the mute man is complement to that of the blind. They lacked means of impression as he did of expression. Thus the ministry of Jesus produces life and wholeness of life.

This cluster of miracles exhibits the tenderness and power of Jesus, the faith and gratitude of the subjects, the wonder of the people, and the malice of His enemies. The supernatural deeds so far recorded present great variety and imply power over disease, death, elements of nature, dumb brutes, malicious demons, and the secrets of men's minds. It is not surprising then, that even in a land of wonders the popular verdict is, "Nothing has yet surpassed these works."

The Teacher's Lantern.

The absorbing thing about this paragraph is that it is fundamental. It touches that which Jesus most delighted to see, which He most highly commended, absence of which gave Him deepest sorrow, that which, above everything else, He sought to cultivate in the hearts of men—faith. The Emmanuel and other like movements are signs. They show that, as never before, the Church is preaching a gospel to the bodies of men, as well as to their souls. It has rid itself of a false theology that the body is a foe to be maltreated. It declares it an instrument to be kept in tune and free from the "wolf-notes" of sickness and nervousness. The death-chamber is not nearly as important a place as that where moral choices are made. Death is essentially a small matter. How we live is the real question. Infirmary and death are the dark background on which the mercy and power of Jesus are thrown in high relief. Customs, with reference to the dead, are most tenacious of all. They inveterately resist change. The tendency to costly display is no new thing. It had to be repressed by law in ancient Rome. It is a long way for some between eloquence and benevolence. Not so with Jesus. He gladly broke off from high discourse to touch with his hands the revoltingly diseased and ceremonially unclean. Jesus' command to silence after so many cures shows His discretion. He would not have holy things volatilized in gossip. Not all the cured were qualified to tell it. Publicity would have overwhelmed him with applications. No time would have remained for teaching and organizing the church. Jesus had not come to be an oculist. This was really a series of resurrections—the woman from sickness; in the blind and dumb men, physical senses long dead. Touching the hem is no premium on relicolatry. Jesus said her faith, not His fringe, had saved her. How many dumb children God has always had in the world—dumb in more senses than one. Comradeship in faith has illustration in the two blind men. Disciples came, two and two, and thus Jesus sent them out. Robert Louis Stevenson says, "Friends keep us worthy of ourselves." More and more it is being understood that many diseases have their seat in the mind or moral nature. Nothing was the matter with the man's organs of speech. He was obsessed in his soul. Everybody must give Jesus some kind of a touch. With some it is almost accidental, as if they had been pushed against him in the throng. With some it is curiosity; with others, hostility. Blessed are they who touch him in faith. The insignificant incidents are significant. That laughter of the mourners proved the reality of the child's death. Those most accustomed to the signs of death believed her to be dead. They unwittingly furnished the pedestal for the



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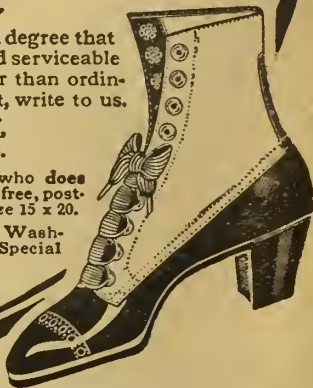
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Worth \$30.00, Only

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Only 45c Each

These fine Army Helmets are brand new—never been worn. We bought them from the U. S. War Department at a tremendous sacrifice. Cost the Government not less than \$1.25 each to manufacture. Made of selected long light cork covered with fine quality, light weight, khaki colored canvas. Late army regulation shape. Has ventilator top that may be unscrewed and gilt spike inserted if desired. Ventilated leather sweat band held in place by means of ten cork buttons. Long, sloping bill. Just the thing for hot weather wear. Send size when ordering.
Price each, only 45c Per dozen, \$5.25

Sword Bayonet With Scabbard, 50c

Blade bright, and polished. Length of blade, 20 1/2 ins. Length, including handle, 25 1/2 ins. Steel handle and cross guard, walnut grip with gun metal scabbard, an appropriate light weight side arm sword, each, 50c; \$5.50 per doz.

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\$1.45

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We bought the over supply from the U. S. Government and now offer these All Leather French Oxfords at less than manufacturer's cost. Strong, pliable calf leather throughout, solid heels, best quality oak leather soles, strongest linen stitching, solid screw nail shanks, half leather lined; the government buys only the best—for wear and solid comfort you can't beat these for twice the money. Sent prepaid on receipt of \$1.45 per pair. Send size wanted and order quick, only few left. Money back if not satisfactory.

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This is one of the finest rifles ever made. Cost the Government \$18 each, manufacturing them in stupendous quantities at the United States Armory. We guarantee every one to be in perfect working order. The metal parts are bright and free from rust. They have seen only a short period of service in the United States Cavalry. The breech loading mechanism is the same as that of the Regulation Springfield Rifle and shoots the same size cartridge—45 caliber. Can also be used as a shot gun. Length, 41 ins. from butt to muzzle. Sectional cleaning rod in the stock. Only a few of these rifles left and when they are gone no more can be had at any price. Sent by express prepaid on receipt of \$2.95. **Money back if desired.**

NAVY BLUE ARMY CLOTH All Wool Blouse \$1.75

Sent Prepaid, Only...

We bought the oversupply from the U. S. War Department at a tremendous sacrifice and are now disposing of them at a price which does not represent cost of material. Made in strict accordance with army regulations of fine quality navy blue wool army cloth, turn down collar; five pointed eagle design and three smaller buttons of same finish on each sleeve. One inside breast pocket. All seams reinforced and double stitched. Brand new, never been used, regulated goods.

In perfect condition. Sizes 32, also 34; state size when ordering. Price each, only \$1.75, prepaid. Here is a rare chance to get a serviceable coat for almost any use. Going rapidly.

Carbine Swivel Sling Snap Hooks, 15c

PREPAID

Made for the U. S. Cavalry of polished forged steel. Strong connecting link, measures 8 1/2 inches from swivel to snap hook. Length of strong snap hook 4 inches. Price only 15c each, prepaid.

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miracle. The child eating was further evidence. The declaration that "Jesus cast out devils with the aid of their prince" shows how bankrupt His enemies were. When people think they must say something derogatory, they usually say something foolish. That Jesus had a fringe to His cloak shows how exactly He kept the law (Numbers 15:38). Let those who imagine Jesus incapable of vehemence read those words, "straightly charged" in the original. It was like an equine snort the way he told the blind men not to tell.

DRESSMAKING—NO. 70.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Semi-princess gowns will be extensively worn throughout the season and this one is charmingly attractive at the same time that it is simple and consequently well adapted to foulards and other silks of the sort, to lingerie materials and the like. In the illustration the new mousseline is trimmed with lace banding and combined with tucking and with white chiffon sleeve puffs. The material shows an embroidered design and is altogether charming and attractive, but all foulards are very beautiful this season and make up most attractively in such manner and all the lingerie materials are well adapted to the model. It is, in fact, suited to everything that is thin and of light weight and at this season that means a great many things.



[6582 Semi-Princess Costume, 34 to 42 Bust.]

One of the new fancy marquissettes with yoke and cuffs of tucked cotton net would be really fascinating and there are countless other suggestions that might be made.

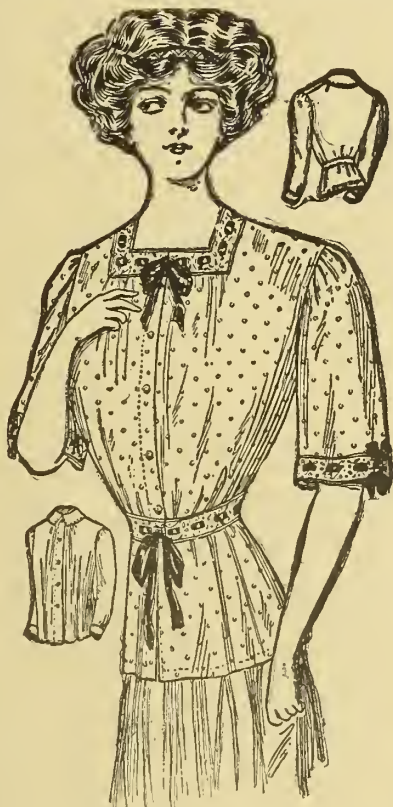
The dress is unlined and is made with a front panel, which is con-

tinuous and consequently gives long and unbroken lines, but with side and back portions of blouse and skirt that are joined beneath the belt. The skirt can be either tucked or gathered over the hips, the flounce is straight and gathered and is joined to the lower edge in Spanish style. There are pretty fancy sleeves and the closing is made invisibly at the back.

The quantity of material required for the medium size is 9 3/4 yards 24, 8 yards 27, 6 3/4 yards 32 or 5 yards 44 inches wide with 1 yard 18 for yoke and cuffs, 3/4 yard 44 for sleeves, puffs and 20 yards of banding.

The pattern 6582 is cut in sizes for a 34, 36, 38, 40 and 42-inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

Breakfast jackets that can be belted are always desirable ones. They give an effect of trimness and neatness that is in every way attractive without in-



[6580 Breakfast Jacket, 34 to 44 Bust. To be Made With Square or High Neck, Elbow or Long Sleeves, to be Worn With or Without the Belt.]

the least interfering with their essential comfort. This one can be treated in that way or left loose as preferred and it also allows a choice for square or high neck, elbow or long sleeves, so that it really supplies every demand. Ring dotted cotton foulard is the material illustrated, with trimming of beading threaded with ribbon, but such a breakfast jacket as this one can be made from challis or cashmere from any similar material quite as well as from washable ones, while the list of the latter includes very beautiful batistes and lawns, cotton pongees and almost innumerable novelties. Either the beading or some pretty banding can be used as trimming and the banding can be cut from trimming or any contrasting material. When made with square neck the fronts are cut out, but the back is left high.

The jacket is made with fronts and back. The fronts are slightly full and finished with hems. When cut out to form the square they are joined to a narrow band; when made high they are finished with the rolled-over collar. The elbow sleeves are made simply in one piece each, gathered at their upper edges. The long sleeves are moderately full and gathered into bands at the wrists.

The quantity of material required for the medium size is 4 yards 24 or 27, 3 3/4 yards 32 or 2 yards 44 inches wide with 2 3/4 yards of banding.

The pattern 6580 is cut in sizes for a 34, 36, 38, 40, 42 and 44-inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

A pamphlet, recently issued by Secretary Wilson of the Department of Agriculture, pays a glowing tribute to the toad. According to this high authority, few creatures of its size have suffered more from false witnesses. It is not true that it causes warts, poisons infants or spoils cows' milk. On the contrary, it has an amiable disposition, a good singing voice—for those who like that sort of thing—and, above all, most commendable industry. An able-bodied toad eats \$19.44 worth of injurious worms and insects every season.

Ask your neighbor to subscribe for The Homestead.

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Instead of getting a large package of loose soda crackers that soon grow stale—stock your pantry with small *tight* packages containing

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Fresh soda crackers every time you eat—the last as fresh as the first—because they are placed in moisture proof packages the moment they leave the oven.

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Know what is under the varnish on the carriage you buy.

A little varnish will cover a multitude of defects in a carriage—remember that when you see one offered at a "bargain."

Kratzer carriages are honest built vehicles. All raw material is thoroughly examined and tested before being used. Every detail of workmanship is carefully executed.

We put the best there is into every Kratzer vehicle we turn out.

Our hickory is selected by experts—none but the strong, heavy, even-grained pieces ever get into a Kratzer carriage.

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Our springs are soft and easy, yet stand up well under a maximum load.

Then there's the "Kratzer Kurve" axle—the



greatest improvement yet produced and it is our exclusive property.

Another feature that is exclusive to the Kratzer line is our method of removing our buggy tops without leaving unsightly shifting rails. Ask your dealer to show you this novel idea.

We would like to tell you all about Kratzer carriages. It is a story that will prove valuable to you if you ever buy a carriage of any kind. We've told it in a little booklet called "Some Inside Facts About Kratzer Vehicles."

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Send for samples or order now on our strong guarantee of satisfaction or money back. We pay freight to all points east of the western boundary line of Minnesota, Iowa, Missouri, and north of south line of Tennessee. Don't delay ordering; these special prices may not be offered to you again. Take advantage of them and write now, today—THE BREESE BROS. CO., Roofing Dept. 17 Cincinnati, Ohio

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Ever offered for the price—the illustration is a drawing from life. The waist is exactly like it with three tucks each side, French back—a strictly tailored style with laundried collar and cuffs. Sent prepaid any- 98c where by mail Made of a fine quality Union Linen and well sewed. No firm in America ever offered a waist equal to this for less than \$2.50.

CATALOG Sent FREE

Containing illustrations of the newest garments and drawn from the garments themselves, with a full description of each.

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THE YOUNG FOLKS

THE JOYS OF FARM LIFE.

I am a little girl, nine years old, and live on a farm with my papa and mama. Papa has 180 acres of land. I go to school and am in the fourth grade. We have a telephone and I think it is fine. I like to talk with Ismay, who is just as old as I am. We live near some neighbors who have a big grove. They have a pretty little girl, fifteen years old, and my sister, who is twelve years old, likes to play with her. They go to school, too, and sit together. There are many buttercups and violets in that grove. My neighbor has nice pussy willows. Papa has four horses, seven cows and two calves. In summer I drive the cows to the pasture. In the winter the snow stays on our farm. We have a sled and coast down hill. In the summer time I make a playhouse for my sister, little brother and myself.

Papa has an orchard. The cherry trees bloomed and were all white with blossoms, but they all fell off. We have a nice pink rosebush that blooms during the summer. We also have a nice lilac bush. My grandma stays at our place. In the summer my mama makes a nice garden. Papa says he is going to build a new house. Mama makes a swing for us in the grove. Papa is chopping down trees and I like to see them fall. Mama raises many chickens. I sometimes feed them and help mama do the work. I like to sing for my little brother. In summer when papa and Fred plow and drag, I carry their lunch to them. The birds sing nicely in Wendland's grove. I sometimes herd the cows. We have a good time in school now, playing outside. Papa has many pigs and we have a dog that I like to play with. We have four cats. My little brother does many tricks.

Matilda Bolter.

She Helps Her Mother.

I am a little girl, eleven years of age. I live on a farm and like it very

much. I help my mother with the work. I wash dishes, sweep and do a great many other little jobs, and sometimes I go outdoors and help my brother do some of his barn chores, which I enjoy very much. But I have some chores of my own which I have to do every night. I have to get coal, cobs and wood. We have nine horses and I like to take them down to water. My mother raises chickens every year. She raised over 300 last year. I raised two ducks last summer. I love to feed the ducks and chickens and I like to watch them run and catch the little bugs and flies. I like living on the farm much better than in the city. Our nearest town is Ash Creek, Minn. I have a brother and a sister. I go to school almost every day.

Ethel M. Gertz.

His Care Of The Chickens.

I live on a small farm, about eight miles southwest of Oshkosh, Wis., with my father, mama and two sisters and one brother. I like to tend the chickens and horses best. Mama gave me the care of the chickens and I enjoy it. We have about thirty-five hens and two roosters, but do not get any eggs. In the house I love to bake and sew, but do not like to wash dishes. During the summer I have lots of fun going into the woods and marshes for flowers. We can go where we want to in the country, while in the city we can't pick flowers or step on the grass, because of the signs, "Keep off the grass." The city children are always willing to come to the country because they can drive horses. We have picnics and parties, and on the whole we have very good times.

Blodwen Davis.

He Likes To Plow.

I live on a farm eight miles southwest of town. It is a nice place with a large lawn, and evergreen trees and a long row of willows in the back. We have about sixteen head of cattle, a

few hogs, about sixty head of sheep, six horses and about a hundred chickens. I milk three cows every night and morning, and take care of two calves. I like best to plow, but hardly ever do it because I have three brothers. I also like to husk corn in the fall, but what I like best of all is to load barley and oats. I have other things to do, too. I feed the chickens, carry the wood and water in and do lots of work in the house. I go to school and am in the seventh grade. The children played with sleds around the schoolhouse this winter.

Avery C. Jones.

Roams Through The Woods.

I am a farmer's girl, eleven years old. I live on a farm near Floris, Iowa; we moved February 11, 1910. I would rather live in the country than in the city for I can play more and have fun roaming in the fields and woods. I live on a hill and have lots of fun climbing and running up and down hill. I help do the work in the house. I like to sweep the floor which I often do. I help wash the dishes except when I go to school. Then I don't help. I like to feed little chickens and gather the eggs. In the summer time I pick up potatoes and work in the field. I have three sisters, Ethel, aged nineteen; Florence, aged fifteen, and Mabel, aged eleven. My brothers are Clyde, aged twenty-one; Frank, aged seven, and John, aged five. I am eleven years old, the same as Mabel, as she and I are twins.

Maude Skirvin.

Healthier In The Country.

What I like best about farm life is that I can get outdoors where the air is fresh and pure. I can romp and play about with my pets when I am not busy working. It is more healthy out here where I live than in the city where it is always dirty and smoky, and besides you can hardly get a whiff of pure air at all. My papa has 125 acres of ground. He raises corn, oats and potatoes. I like to go out to the barn every once in a while to pat and talk to the dear old creatures because they are so gentle and kind. Now I will tell you what makes them so gentle. My brother pats and talks to them like he would talk to children. He rode a couple of our colts one day that were not much more than two years old, and had never been ridden before. If they had not been petted

and talked to he could never have done it. We raise apples, grapes, strawberries, blackberries, gooseberries, cherries and currants. I help my mama about the house a good deal. I help wash the dishes, get the meals and any other work that has to be done. Mama is just teaching me to sew a little bit now. Mama will have lots of help because she has two daughters; that is counting myself. Papa has two boys that help him about the barn. I am going to have a little garden this summer and raise vegetables, and make a few flower beds and raise a few flowers. My little sister and brother go to school with me, on school days. We have certain chores that we do before we go to school, in the morning, and chores to do at night after we come home. We have chores to do to go along with our play.

Luana C. Minehart.

Gathers Wild Flowers.

I would rather live in the country than in the city, for I can have more fun playing in the woods and gathering wild flowers when they bloom. In the country we have all kinds of birds which sing in the trees, while in the city there are no birds except sparrows and the birds in the cages. In the country we have pure air to breathe, while in the city the air is always heavy with smoke from the factories. In the country we can gather all kinds of nuts, and can raise little chickens. We have an incubator and I like to watch the little chickens hatch. I like to gather the eggs and feed the chickens. In the country we can raise little colts, calves and pigs. I go to school and like it very much, but our school will be out the 25th of March. In the summer time I help pick up potatoes and pull weeds. I am a farmer's girl and am eleven years old. I have a twin sister, Maude. We will soon be twelve years old.

Mabel Skirvin.

OSGOOD "Defiance" Wagon Scale

Who weighs the products that you buy and sell? If you use somebody else's scales, you're going more or less "by guesswork." Install an Osgood Scale of your own and KNOW your weights—get full value for everything. Many styles to select from. Prices within your reach.

Write for Catalogue
OSGOOD SCALE CO.
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Friends—Tell Me Your Power Needs

SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horsepower from a real engine factory. Save dealer, jobber and catalogue-house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason; I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. Come to Waterloo and see it. I sell them direct to you for less money than some factories can make them at actual shop cost—I make so many. All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

Anybody can afford and might just as well have a high-grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for in carload lots for spot cash. An engine that is made so good in the factory that I will send it out anywhere in the U.S. without an expert to any inexperienced user, on 30 days' free trial, to test against any engine made of similar horsepower that sells for twice as much, and let him be the judge.

INFORMATION YOU WANT TO KNOW

Here's how the other fellow answers your questions. I have hundreds of original letters like these—A lot more also in my Engine Book. Get it.

How About Cold Weather?

My engine came O. K., goes O. K., I like it O. K., and it is O. K. The engine I had last winter I had a dread of starting it in the morning, but this one is a pleasure; for, instead of 1 barrel of water, 2 pails does the job. I advise anyone wishing an engine to try the Galloway, as it costs nothing to try, according to their terms. W. P. Jennings, Chippewa Falls, Wis.

Is It Powerful and Economical?

When words cannot express a man's thoughts he

is up against it. I think you have the best engine on the market for the money. It is easy to start; it is simple; it is powerful, and it is a smooth-runner. I or no other man knows the worth of an engine till he has used one. I would not think of being without one at any price, and if I was buying a dozen, they would be Galloways. On the coldest morning, all I have to do is to turn the gasoline on, throw the switch in and turn half over—and are gone. My brother used to sell fair engines and he was up to my place. He said my 5-H.P. Galloway beat anything he ever saw.

Is It Simple and Easy to Start and Run?

I find and the 5-H.P. engine that I purchased from you to be all that you claimed it to be. Without previous experience, I have no trouble in operating it, while several of my neighbors, with other makes of engines much higher priced, have to call in experts frequently to put them in order. I certainly would not trade it for any engine I ever saw run.

E. Loomis, Gibbon, Neb.

Cut out this Coupon and mail to me now!

FREE BOOK

WM. GALLOWAY, Pres.
Wm. Galloway Co., of America
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Here's my name and address—send me FREE your Big New 1910 Galloway Gasoline Engine and Power Book—also Low Prices—30-day Free Trial offer and Special Proposition direct from your factory to me.

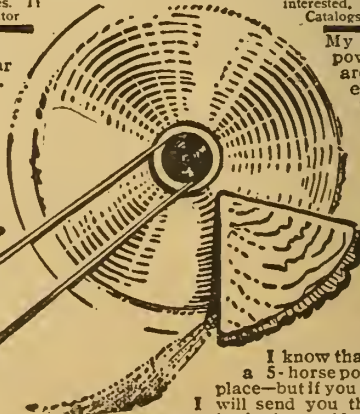
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IMPORTANT Prompt shipments by shortest route from my Waterloo, Iowa, Factory. Always write me there. I also make the famous Galloway Wagon-Box Manure Spreader and Complete Steel Truck Spreader. Also the Galloway Cream Separator. Engines, 11 Separator. All sold on same direct plan as my Gasoline engine. Interested, ask for my Spreader or Catalogs—FREE.

My prices for any horsepower engine you want are way below anybody else's—and you get the very highest quality in every Galloway machine.

2-Horsepower Galloway Gasoline Engine \$59.50



I know that it pays best to have a 5-horsepower engine on your place—but if you want a 2-horsepower, I will send you the best 2-horsepower engine in the world today, and you are the judge on my 30 days' free trial.

GASOLINE ENGINES 2 to 22-Horsepower
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How Galloway Engines Save and Make You Money—Their Uses

1. On the Farm—Power for so many kinds of work that they practically save a big share of your hardest labor—and solve the "hired help" problem most of the year.
2. Cream Separator—Run it twice a day, or 730 times a year. Think that over for the women's sake and your own.
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4. Wash Machine—Every week—it saves the woman's work.
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7. The Elevator and Silo—Galloway furnishes the power.
8. Sawing Wood—See Galloway's outfit and description at the right, here.

Get Galloway's Biggest and Best FREE GASOLINE ENGINE BOOK. Write today for my beautiful, new 50-page Engine Book in four colors; nothing like it ever printed before; full of valuable information, showing how I made them and how you can make more money with a gasoline engine on the farm. Write me—

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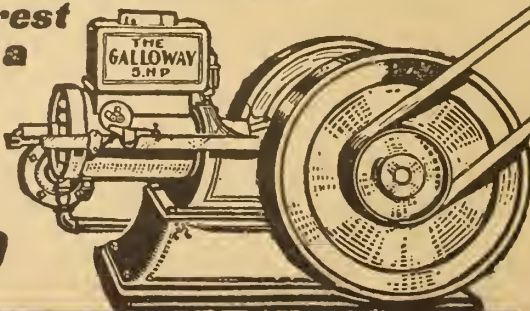
Galloway

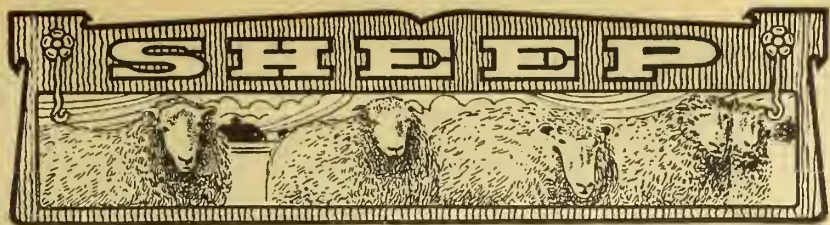
Keep the \$100 That I Save You at Home in Your Own Pocket—That's as Near Home as You Can Get.

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5-H.P. —Only

\$119.50





THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

THE HAMPSHIRE SHEEP FOR CROSSING PURPOSES.

To the Editor of The Homestead:

The Hampshire breed has rapidly come to the front in recent years. These sheep have become so popular that they were second in number at the three last international shows of mutton breeds.

When we stop to realize that the Hampshire is but a comparatively new breed in this country we are forced to admit that it must have strong points in order to command the attention of breeders in such a marked manner. As evidence of their mutton qualities I would cite that the grand championship at the recent international was won by Hampshires and that for the past two years the grand champion pen of all breeds at the English Smithfield show was won by a pen of Hampshire wethers. This, I think, shows that they are second to none in fleshing qualities.

For crossing purposes the breed is becoming very popular. The lambs attain a heavy weight while still young as the Hampshire is an early maturing animal and a very heavy milker. Crossed on white-faced ewes Hampshire rams will produce with very few exceptions black-faced lambs, so popular in market circles. The half-blood ewe will then be a good-sized sheep with a nice covering of wool, a heavy milker and a good mother. She will be well able to rear twin lambs and take good care of them. She will prove to be a good rustler as this is one of the characteristics of the breed. Hampshires will subsist more exclusively upon and utilize more coarse feed than any other breed. The quality of being good mothers and milkers is a valuable one in a breeding flock as more and better lambs can be reared from them than from the scant milking breeds. A ewe with a good milk supply will take kindly to her lambs, whereas one that is deficient in this respect will not and sometimes even refuses to own her lamb as natural instinct tells her that she cannot support it. On this account I have often found it comparatively easy to make a Hampshire ewe own a foster lamb if she has lost her own.

While a long-wooled ram crossed on common ewes will produce large lambs they nevertheless have much more open coats which make them more liable to parasites and more subject to cold. It is for these reasons if for no others that lambs by such rams are less desirable than others. Lambs by a Southdown or Shropshire ram make a very good cross but they do not attain the size that a cross-bred Hampshire will and the ewes are not such heavy milkers.

Now just a word about selecting sires for crossing purposes. The ram chosen for this work should be a strong, masculine-headed fellow, short on legs, wide and thickly fleshed over the back and well-quartered. Avoid the rangy, loosely-coupled ram as his lambs will lack in constitution and be poorer feeders than would those from a more compactly built buck. With good fat lambs at present prices, why should not every farmer own a small flock of sheep? No class of live stock will give better returns for time and money expended. They will clear the fence corner of weeds and enrich the soil of every acre trodden by their golden hoofs. Wm. F. Renk.

Wisconsin.

WELL-ARRANGED SHEEP SHEDS.

To the Editor of The Homestead:

An Iowa subscriber sends the following communication:

Having studied the sheep department in your paper, I am on the eve of going into the sheep industry. I would like to receive some advice and infor-

mation through the columns of your paper in regard to building plans for sheds. I would prefer a building so arranged that one could have the feed racks and feed troughs inside, so as to be able to feed inside on cold and stormy days.

The best-arranged, medium-sized shed both for convenience to the flockmaster and welfare of the flock is twenty feet in width, then as long as is required. Four feet full length of shed is used for alleyway, leaving space sixteen feet wide for sheep pens. The most serviceable rack and trough is a combined one made by using a board ten inches wide for the bottom, nail a four-inch board on the side all the way round, then 1x4 inch uprights ten inches apart and eighteen inches high, nailing the uprights to another 1x4 inch board horizontally at the top. The bottom is placed about one foot from the ground by any convenient support. This gives a suitable arrangement for feeding both hay and grain. Only such amount of hay is put in as will be consumed by the flock each period, and the hay stubs and leavings are cleaned out each time before grain is fed. We use this rack as a partition every sixteen feet in the shed and it thus makes pens sixteen feet square with rack room for all sheep the pens will hold. Next to the alleyway is placed a rack similar except that one side is boarded solid because sheep only have access to one side of it. That gives rack and trough room on three sides of each pen. We have a little door opening from each pen into the alleyway and also one to the outside. If a large sheep barn is required it could be made thirty-six feet wide having the four foot alleyway down the middle with pens sixteen feet wide on each side. Different men have their own ideas about whether they want hay, etc., above. Howard Chandler.

EXPERIMENT STATION BULLETIN.

The Nebraska Experiment Station has just issued Bulletin No 113, entitled, "Oats." It discusses results of variety tests, different rates of sowing and the cultivation of oats.

During the past six years some twenty varieties have been tested, and about twelve of these varieties have been tested for a period of five years. The varieties can be summarized into early types and late types. The early varieties, which have ripened on an average July 11th, have averaged 53.9 bushels per acre, while the late varieties have ripened on an average July 20th, and have given an average yield of about 40.1 bushels, a difference of about 14 bushels per acre as an average for five years, in favor of the early varieties of oats. Sixty Day, Kherson, and Texas Red, among the early varieties, are the ones most highly recommended. Among the late varieties Lincoln oats have given best results.

Various rates of seeding Kherson oats have been tested since 1903. Results have shown in general that about eight pecks per acre give best results when the Kherson oats are drilled and about ten pecks per acre when they are sown broadcast. However, the rate of seeding depends somewhat upon the variety of oats used. There is a table showing the relative size of grain in different varieties of oats, which demonstrates that with a small-grained variety of oats, like Kherson, eight pecks will furnish about as many plants per acre as fourteen or nineteen pecks of larger-grained varieties. Hence, the rate of seeding depends a great deal upon the size of the grain. Counts have been made upon the different rates of seeding for two years to determine the number of plants and number of suckers or tillers pro-

duced per acre. Where the planting is thin the plants tiller freely, and almost as many heads per acre are produced where four pecks are used as where eight pecks are used, due to the stooling of the oats under thin planting.

Cultivation of oats has been practiced since 1898, experiments being conducted with plants sown in wide rows, twelve to twenty-four inches apart, also experiments where the oats have been sown with the regular drill and broadcast and afterwards harrowed with an ordinary smoothing harrow or weeder. It has not been found advisable to plant oats in drills wide apart except in a very dry season, when drilling twelve inches part gave fair results. Where oats have been sown the ordinary way with a drill and harrowed from one to three times soon after the oats came up, an average increase in yield of 4.8 bushels for a period of seven years has resulted. However, where the oats were sown broadcast, harrowing has given a slight decrease in yield, due to the fact that many plants were destroyed in harrowing. It is recommended that oats be drilled and harrowed.

Residents of Nebraska whose names are not on the station mailing list may obtain this bulletin free of cost by applying to E. A. Burnett, director, Agricultural Experiment Station, Lincoln, Neb.

RECIPE FOR SALTING MEAT.

To the Editor of The Homestead:

I recently noticed an article in your paper by W. D. Neale, giving directions for sugar curing meat. The recipe as given calls for fifty gallons of water, twenty-five pounds of salt, eight pounds of sugar, two ounces of cayenne pepper, and two ounces of saltpeter. It seems to me he meant fifteen gallons of water instead of fifty gallons. It requires one and one-half pounds of salt for each gallon of water to make a brine strong enough to float an egg, which is the usual strength recommended for curing meat. I usually salt the meat lightly with dry salt for a few days before putting on the brine, and leave it in the brine for from three to five weeks. Without finding fault with Mr. Neale's recipe other than noted, I give one that I used last year that cured a fine quality of meat: Water, nine gallons; salt, fourteen pounds; sugar, four pounds; saltpeter, three and one-half ounces; lye, four teaspoonfuls. The lye serves to break and purify; the brine to be heated and skimmed and allowed to cool before pouring over the meat. To make good sausage, use for forty-five or forty-eight pounds of meat, one pound of salt, one ounce of black pepper and a scant ounce of sage leaves, dried and pulverized.

O. W. Browning.

The Barker, Weeder & Mulcher

THE GARDEN TOOL

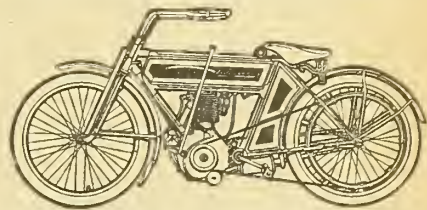


Easy to operate. Push it like a lawn mower. Does the work of ten men with hoes. Buy it and cultivate your garden in a few minutes. The lower knife running straight across, runs under the ground, cuts off the weeds, the reel disks up the soil forming a mulch which kills the weeds and holds the moisture to feed the plant. Ask your dealer for it, or write

BARKER MANUFACTURING CO.
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THE ONE MAN RUNABOUT



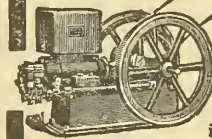
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USE GAS, GASOLINE OR KEROSENE

Are known by a superior standard of construction 25 years of service has demonstrated their worth. Does work at lowest cost and is always ready to saw, grind, pump, shell or do any farm or shop work.



FIVE YEAR BOND GUARANTEE

We build all sizes in stationary or portable type. Hopper jacket or water tank cooling. Inducements to introduce in new localities. Write stating size wanted.

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THESE are the kind that sell in the stores for 5 cents each. We want to send you a sample package and all we ask is that you send us 5c stamps to cover cost of postage and packing. They are the grandest cards you ever saw. All in colors, showing rich flowers on gold and silk finish background. We also send you full particulars of our easy plan for getting hundreds of others from us absolutely free. Post Card Club, 74 Bagley Ave., Detroit, Mich.



Price all complete, with our improved shearing head and 4 sets of cutting knives, is ONLY—
\$9.75

DON'T SHEAR SHEEP WITH HAND SHEARS

It is slow—you don't get all the wool—you cut the sheep—and you make hard work of it for yourself. Do your shearing with this

STEWART No. 8 SHEARING MACHINE

This is the great enclosed gear shearing machine you hear so much about. Every gear is file hard, is enclosed, protected and swims in oil, doing away almost entirely with friction and wear. This machine turns easy, shears fast and gets all the wool. IT MEANS 20 CENTS WORTH MORE WOOL FROM EVERY SHEEP.

Your dealer can supply this machine, or send \$8.00 and we will ship C.O.D. for balance. Write for our new 1910 book, "More and Better Wool." It is FREE. Send for a copy today.

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It must please and satisfy you or you can return it and we will refund all you paid.



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IN EACH TOWN and district to ride and exhibit a sample 1910 Model "Ranger" bicycle furnished by us. Our agents everywhere are making money fast. Write at once for full particulars and special offer.

NO MONEY REQUIRED until you receive and approve of your bicycle. We ship to anyone, anywhere in the U. S. without a cent deposit in advance. Prepay freight, allow **TEN DAYS' FREE TRIAL** during which time you may ride the bicycle and put it to any test you wish. If you are then not perfectly satisfied or do not wish to keep the bicycle you may ship it back to us at our expense and you will not be out one cent.

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YOU WILL BE ASTONISHED when you receive our beautiful catalogue and study our superb models at the wonderful low prices we can make you. We sell the highest grade bicycles at lower prices than any other factory. We are satisfied with \$1.00 profit above factory cost. **BICYCLE DEALERS**, you can sell our bicycles under your own name plate at double our prices. Orders filled the day received.

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DO NOT WAIT—but write today for our Large Catalogue beautifully illustrated and containing a great fund of interesting matter and useful information. It only costs a postal to get everything. Write it now.

MEAD CYCLE CO. Dept. D184, CHICAGO, ILL.

DAY BY DAY

AGRICOLA

Now is the spring weather made glorious by \$10 hogs. A neighbor with only one hog to sell at this time received just \$56 for it and felt so good that he forgot to anathematize the divers and sundry mudholes in the road.

A glass of hot lemonade is a fine thing for these spring mornings and if you omit the sugar and the lemon it is still a good thing to take early in the morning. Try it for "that tired feeling."

I notice milk separators advertised at \$15 to \$20 each and guaranteed for fifteen years. I tried in vain many years ago to get one for an even \$100 which probably was not so good. But I do not mean that the \$20 separators made now are better than the \$100 separators made then. I do believe, however, that a cheap one is better than none, and I have used a separator many years.

Notwithstanding the high price of horses, I believe that it is cheaper for the farmer to keep plenty of work horses than to go without. Plenty of horses enable one to do more work with less hired help. But to make the horse a paying investment he must be used intelligently. The pith of the matter is not simply having more horses, but accomplishing more work. Scratching and skimming \$100 land does not pay.

If the land is in the right condition, and the work is well done, four quarts of timothy and two quarts of clover seed per acre will give a good stand in this part of the corn belt.

At a farmers' institute which I lately attended the question was asked which of the three highly nitrogenous dairy feeds contains the most digestible protein. The chairman gave them in the following order: Cottonseed meal, oil meal, gluten meal, cottonseed meal being highest and gluten meal lowest. A professor from an agricultural college questioned this, saying he thought oil meal higher in protein than cottonseed meal. When I came home I referred to Professor Woll's Handbook for Farmers and Dairymen and found the digestible protein given as follows: Cream gluten meal 29.5, Chicago gluten meal 32.2, oil meal 28.3, cottonseed meal 36.9, from which it appears that cottonseed meal will balance more carbonaceous feed in preparing a dairy ration than oil meal, but that neither the chairman nor the professor was right as to gluten, oil meal being the lowest of the three in protein.

When this part of the country was new, farmers planted their corn four feet apart each way. Now three feet six inches is the rule. Just as good corn is grown by the closer planting. It requires 14 per cent more work to cultivate the thicker planting and it increases the number of hills per acre 30 per cent. None of us intend to go back to the four by four method.

I had been wondering why the hens did not lay more uniformly near the close of the Lenten season, but just before Easter I found an old, unused fanning mill in the barn attic and the hopper was one big hen's nest. The joke is that no hens get into the attic. I have not asked the boy to explain the riddle.

And now that eastern seedsman who introduced the wonderberry last year comes out with flaming advertisements of "An Improved Wonderberry." Agricola grew a few wonderberries last year and if he is forgiven for that he will refrain from such doings now and henceforth.

The sportsman differs from the common murderer, but the distinction is difficult to put in words. One is to the other much as slang is to profanity.

I have found it easy in this part of the corn belt to make a new pasture in the spring by sowing oats and seeding down with timothy and clover. Sow the oats thick, and wheat can be mixed with it, and scatter timothy and

clover at will. Pasturing off the oats will give the timothy and clover sunshine, and the firming of the ground by the tramping of the stock makes it grow. One caution is necessary. Keep off heavy stock when the ground is soft.

I believe that we sow too much clover and timothy in vain. If it is good seed and put in so it will germinate, then a seeding of eight pounds of timothy and four pounds of clover seed per acre puts 250 seeds to each square foot (and 90 per cent should germinate) if the number of seeds per pound is correctly given in the United States Year Book of Agriculture. I have known two quarts of seed per acre to give a good stand and I have known four times as much to fail.

There are two firms selling tankage here, one asking \$40 and the other \$45 per ton. Farmers prefer the \$45 grade. I had supposed that tankage is tankage, but it seems it depends upon the way it is made and not all packing houses turn out the same grade of product.

It looks good to me to see new fanning mills going to the farms. There is no sense in sowing foxtail seeds with the oats, but less harm than in sowing chaffy oats. The ground is seeded to foxtail and it will come up anyway as thick as hair on a dog's back if not smothered down by heavy growth of straw, and sowing chaffy oats instead of good-graded seed oats favors a foxtail crop even if not a single foxtail seed is sown.

THE CONCRETE FLOOR.

To the Editor of The Homestead:

I saw an item in your paper recently about concrete floors in hog barns, the writer arguing that concrete floors were not good for hogs. I have a hog and cattle barn 30x50 feet, every inch of which is laid with concrete floors, or 1,500 square feet in all, and my five years' experience convinces me that it is the only floor for hogs. There are a great many points in its favor. First, it will never rot out. Second, it is not a harbor for rats and disease, as the plank floor is. Third, it is easy to manure out, as the hogs can't mix dirt and manure together.

This barn is eighteen feet high to the roof, made of tongue and grooved flooring and is therefore warm in winter. I have had pigs come in zero weather and none froze. I aim to keep the barn full of calves and hogs in cold weather and they make the temperature quite warm. By making a barn high it gives one a chance to put



The Rockford Hog Trough

NO PLACE FOR GERMS

EXTRA STRONG

What every stock owner ought to have. Hog sanitation results in hog profit. Impossible with the wooden troughs. For information on this extra quality, galvanized trough, address

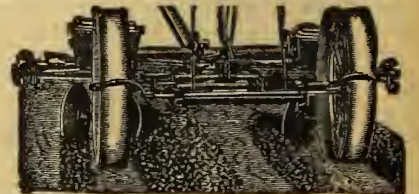
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Kemper Disk Furrow Opener

Used on any planter.
Cultivates the ground.
Makes loose, mellow seed bed.
Plants uniform depth.
Gives better stand.

Increases the yield 10 bu. or more per acre.
Ask your dealer or write for circulars.

WALKER MFG. CO., Council Bluffs, Iowa.



the hay for stock on top, just where it is wanted in winter. In summer it also saves lots of hard labor as by having the hay carrier in the barn it can be dropped off anywhere in the mow and no help will be needed in the barn. I also keep about a hundred of my chickens roosting over the hogs and they lay all winter, as they have warm quarters. One roof answers all purposes for hay and stock.

Mason Co., Ill. Henry J. Smith.

WHY MACHINERY IS COSTLY.

To the Editor of The Homestead:

There was a letter in a recent issue of your paper, from a farmer in Missouri, complaining of high-priced farm machinery, binders, etc. Now I wonder if the high-priced farm machinery is to blame, or the farmers themselves. Of course I do not know the conditions in Missouri, but I know there is considerable complaint here about high-priced binders, etc. Now I will tell you what I did and it may perhaps help some one else. Eight years ago I moved to the country, and not having much money I had to go easy, so I went around and bought second-hand machinery to the amount of \$86, and incidentally, I paid \$5 for a binder that had been thrown away. Even the knotter had been stolen off the machine, but by a little investi-

gation I found where the knotter was and went and got it. My neighbors laughed at me and wanted to know what I intended to do with that old junk, but let me tell you, I overhauled that second-hand machinery and it is still doing good work. I overhauled the binder, paid out ninety cents for repairs, and since that time have cut from twenty to 100 acres every season with it and it is still ready to eat up a few hundred acres. Two-thirds of all the binders that are discarded could be made to work all right by the exercise of a little ingenuity, as most binders do not cut enough to wear the journals smooth and old ones can be bought for from \$5 to \$20 each. The thrashing machine question is somewhat different of course, but we are overcoming that in a way, too, by nine or ten farmers clubbing together and buying a thrashing outfit and so doing away with the arrogant machine owners.

G. A. H.

A Wisconsin farmer, the Norborne Democrat reports, lost two hogs weighing about three hundred pounds each. He searched the whole township and at last found the skins of the hogs rolled up and hidden under a bridge. Like the brass bearings on an engine, pork is so valuable that thieves will wreck the completed mechanism to get the priceless parts.



IMP AND OWNED BY TRUMAN'S PIONEER STUD FARM BUSHNELL ILL.

BUYERS OF DRAFT STALLIONS CANNOT FAIL TO BECOME INTERESTED IN THE EXCELLENT SPECIMEN ABOVE ILLUSTRATED. SEE THE ADVERTISEMENT ON PAGE 47, AND WRITE FOR DESCRIPTIONS AND PRICES

SEEDING DOWN DIRTY LAND.

To the Editor of The Homestead:

I noticed in one of your recent issues that a subscriber asks how he can succeed in getting a stand of timothy and clover on foul cocklebur land. I have had some experience along this line, and succeeded in getting a good stand of clover and timothy the first year. Of course, the season conditions have a great deal to do in getting a good stand of grass. About the 25th of March, 1908, I had twenty acres of the worst kind of worn-out, gumbo, cocklebur land. I harrowed the stalks down well, raked and burned them, sowed two bushels of oats to the acre and about two and a half bushels of clover seed to twenty acres, then double-disked this twice, and then sowed two and a half bushels of timothy to twenty acres and harrowed twice. The weather turned warm right away and the seed all came up in good time, and made a good growth before the burs got started. I cut the oats about the 15th of July and the clover was just high enough that I cut a little of the tops in order to get the oats, they being a little short. I thrashed the oats in August, getting about 15 bushels per acre. You see I got the clover a little too thick under the weather conditions and it stunted the oats, but I didn't care for that, it was the clover I was after anyway. Along in October of the same year I cut the clover for seed, the cockleburs being at that time just headed out well. In November I thrashed one bushel and a peck of clover seed and had all the cockleburs up in the chaff pile. The best of it all I had the satisfaction of seeing the burs go up in smoke. Last year I cut the hay from this land, getting about two tons of timothy and clover hay, and what burs were left never got headed out. In September I cut a second crop with the same result, and I think the burs are about done for. By leaving it in hay again this year and by not sowing too heavy a nurse crop I think your subscriber can easily get his ground in grass, because I don't think he has any more burs than I had. Of course, he must get his seed in early and in good shape, and must be sure he is sowing No. 1 seed, and with good rainfall the small seed will go ahead of the cockleburs. Subscriber.

In a recent issue of your paper I saw a communication from a subscriber at Beaman, Iowa, asking for a discussion upon the question of seeding a field of foul cocklebur land to clover and timothy. I know of no better way to get rid of burs than to seed land to clover or timothy, or both, just as it suits the man best. Answering one of his questions as to what crop the clover and timothy should be seeded with, will say that I do not think it makes much difference, but I think perhaps oats will be the best to keep the weeds down. Now I will give you my experience.

In the spring of 1906, I seeded about eight acres of land to oats and timothy that was very foul with burs. I got a fair crop of oats and a good set of timothy. I have cut three crops of hay and the burs are almost all gone. One cannot expect to get rid of all the burs in one year. In the spring of 1907, I seeded fourteen acres to oats, clover and timothy, that was pretty foul with cockleburs, sowing a little more than two bushels of clover seed and two bushels of timothy to the fourteen acres, and about two and a half bushels of oats per acre. In the fall of the same year I cut and put up twenty-seven loads of clover hay off of the fourteen acres. There were a good many burs in patches on the land; the burs were formed and some of them were even turning brown, but of course they were all harvested with the hay and hauled off the ground. In 1908, I cut two crops of clover off the land. Some men think that if you cut your clover in the fall after seeding in the spring, you will kill it, but if I get a good stand of clover I would rather cut it in the fall than not, because in this way you remove all the weeds and trash from the ground and I think the clover does better. In the spring of 1908, I seeded about three and a half acres that was foul with cockleburs to wheat and clover. I got a fair crop of wheat and

LANDS AND HOMES FOR SALE
FREE TRIP TO TEXAS

If you want to take a free trip to the Sunny Pecos Valley of Texas where they cut six crops of Alfalfa and raise all kinds of fruits and vegetables, write us for further information. Address THE HEATH COMPANY - - TOPEKA, KANSAS.

Alfalfa, Corn and Stock

740 acres of the very best corn, alfalfa and grazing land in Kansas; 75 acres alfalfa, 170 corn. Good fences and buildings. \$40 per acre, easy terms. Write for full description.

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Southern KANSAS FARMS

30,000 ACRES in quarter sections, well improved farms in cultivation at \$25 per acre; wheat and alfalfa country; best values in Kansas. Also highly developed farms near Wichita. Write for descriptions. BANE REALTY CO., 203 Scarritt Arcade, Kansas City, Mo.

SHALLOW WATER ALFALFA LANDS

FINE ALFALFA LANDS IN OKLAHOMA, IN SHALLOW WATER DISTRICT, FROM 40 TO 60 ACRE TRACTS AT \$20 TO \$65 PER ACRE. WRITE FOR LIST. C. B. RHODES, REAL ESTATE & INVESTMENT CO., 400 HEIST BLDG., KANSAS CITY, MO.

a good set of clover but the clover had not made a very good growth by September. I cut it, however, with the mower, used some for feed and hauled some off the ground, and in 1909, harvested a good crop of clover from it. Then in September I cut a second crop expecting to thrash it, but thus far I have failed to do so.

John F. Hartness.

Marion county, Iowa.

LIVE STOCK SALES FOR THE WEEK.

Report of the Percheron Combination Sale.

This sale was held in the sale pavilion at Sioux City, Iowa, on Wednesday, March 23d, with Mr. J. B. McMillan as manager and Cois. F. M. Woods, Carey M. Jones and Pat McGuire as auctioneers. The contributors to this sale were Messrs. H. G. McMillan & Sons, of the Lakewood Farm; P. W. Moir, of Orange City; Muirhead & Barr, of Bradshaw, Neb.; O. D. Hart, of Le Mars, Iowa, and W. H. Kerr, Bennington, Neb. Fifty head went through the sale ring and brought \$22,655, or an average of \$453, this being considered very good, as a good portion of the offering were yearlings coming two and two-year-olds coming three, of both mares and stallions. This sale was attended by buyers from South Dakota, North Dakota, Minnesota, Alberta, Nebraska and Iowa, the Alberta people taking about a car load of the offering. The consignors, as well as Mr. J. B. McMillan, the manager, expressed themselves as well pleased with the outcome. Below is a list of the buyers: J. C. Drewry, Cowley, Alta, Can.; Fred H. Sears, Belvidere, S. D.; Alex Mitchell, Jasper, Minn.; W. H. Kerr, Bennington, Neb.; W. S. Steele, Sioux City; Matt Baker, Sheridan, Wyo.; F. E. Goreham, Dunlap; J. S. Johnson, Ellendale, N. D.; Geo. C. Munger, Platte, S. D.; P. H. O'Hara, Bloomington, Ill.; Fred Steckelberg, Wakefield, Neb.; O. D. Hart, Lemars; Chas. Irwin, Marcus; Muirhead & Barr, Bradshaw, Neb.; A. T. Austin, Fulton, S. D.; Peterson Bros., Litchfield, Minn.; Fitzgerald Bros., Varina; T. B. Goodhope, Hurley, S. D.; Henry Webster, Minneapolis, Minn.; H. G. McMillan & Sons, Rock Rapids; W. H. Webb, Spencer; Hugo Westerman, Lake View; A. E. Austin, Colton, S. D.; W. H. Smith, Paullina; H. A. Caldwell, Edgar, Neb.

Report of the Joint Short-horn Sale.

On March 24th, in the sale pavilion at Sioux City, Messrs. R. C. Jones, of Oregon, Wis.; Fox & Gallagher, of Oregon, Wis.; W. T. Green, of Orfordville, Wis., and F. H. Burt, of Brodhead, Wis., held a joint Short-horn cattle sale, with Mr. Carey M. Jones as auctioneer, with decided success. Owing to a wreck on the Milwaukee, they were unable to get all their cattle through, only having thirty-two head to make the sale with, and the greater portion of these being young, just turning one year old; but, with all their bad luck and difficulties, they made an average of \$90.50, which was considered by everyone a first-class Short-horn sale, as there was not a Scotch pedigree in the offering. They had buyers from North Dakota, Minnesota, Iowa and Nebraska, and Mr. A. A. Boynton, of Plankington, S. D., was one of the best buyers for the good stuff, buying nine head. He secured Young Demonstrator, an eight-year-old bull, at \$185. He also secured Oakhill Rose, a show cow, at \$315. Mr. James Fuller, of Winnebago, Neb., also secured some of the good ones. The offering was just in fair condition and upon arriving very late at the stock yards, got but very little preparation for the sale ring while here. Mr. F. H. Burt, the manager, expressed himself as well satisfied with the sale and considers Sioux City one of the best points at which to sell Short-horn cattle in the West.

When writing to advertisers please mention this paper.

YAKITAT—

YES—In the Yakima Valley and Lots \$30.

Buy a lot in Yakitat where you might do as other have done out here. One man made 1200 per cent in eight years in one western town; another the same in six months. We expect a great deal from Yakitat. On the main line of the Northern Pacific Ry. In the famous Yakima Valley; the center of 500,000 acres of the best fruit land that will soon be irrigated. Starting now. Send for literature. You may pay \$5 down and the same monthly until paid. E. B. Butler, 1179 Am. Bank Bldg. Seattle, Washington.

60 Bushels of Wheat to the Acre
100 Bushels of Oats to the Acre

MONTANA, DAWSON COUNTY. No Blizzards, no Cyclones, the most productive soil in the world—The purest of water. We own 30,000 acres choice agricultural lands. One crop will more than pay for your land. Free fare to all buyers. \$12 to \$20 per acre. ST. PAUL LAND CO., 232 Endicott Bldg., St. Paul, Minn.

IOWA FARMS Thirty well improved farms in Pocahontas, Clay and Palo Alto counties, Iowa, for sale cheap. Desiring to retire from active business, I want to sell these farms during the summer of 1910. These farms range in size from 80 acres to 640 acres. They are mostly tilled out and have good improvements on them. Will take a small farm as part payment on my 100 to 640 acre farms, if put in on cash basis. I also have several sections of Canada, Minnesota, North and South Dakota lands which I want to sell. I am also agent for some men that want to trade their quilts in their Dakota and Iowa lands for hardware, implement, harness or furniture stocks, in which good deals can be secured. No lands in Iowa are as cheap; no lands in the world are better than these Iowa lands. I also have the agency of a large list of local farms for sale not listed in booklet. Write to or see C. S. Allen or C. S. Allen Land Company, Laurens, Iowa.

IOWA CORN AND ALFALFA FARMS

No better corn farms in the corn belt. No better alfalfa land anywhere. No better winter wheat land anywhere. No waste land; no wet land. No sand; no gravel. Just rich, deep, black soil. The only section in Iowa where corn and alfalfa are both extensively and successfully produced. For sale by H. L. CRAVEN & CO., ONAWA, IOWA. Ask for new free list.

BUY A FARM IN TODD CO., MINNESOTA

125 Miles from Minneapolis in Central Minn. \$400,000 paid to farmers last year for cream. Churches, schools and telephone. Best of soil and water. Beautiful lakes. First in grasses and grains. Prices \$25 to \$40 per acre. Here is the opportunity. Come and see. Write for facts.

G. B. RODDIS, Long Prairie, Minn.

BUY THIS IOWA FARM

237 ACRE farm, near Decorah, Iowa, one of the best cities in the state; 100 acres under cultivation; 40 acres good timber, balance in meadow and pasture; running water, good well, 7-room house, good barn and other buildings. This is an excellent stock proposition; best of soil; 45 per acre. A. M. Lawton, 55 East Fourth Street, St. Paul, Minn.

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseecker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address The Allen Co. Investment Co., Longton, Kan.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address BERT I. WELD, SLAYTON, MINNESOTA.

FOR SALE—HOWARD COUNTY, IOWA

160 ACRE farm, well improved; deep, black soil; every acre can be plowed, but is now seeded down to timothy; \$70 per acre; reasonable terms; no trades. BOX 305, Waterloo, Iowa.

SOME VERY CHOICE AND WELL-IMPROVED FARMS

FOR SALE, on easy terms, at \$35 to \$40 per acre. Land located in the very heart of Minnesota's best farming country. For particulars write Julius Thorson, with Security State Bank, Benson, Minn.

Iowa Lands For Sale in Howard county.

\$50 to \$90 per acre. Large list on request. Address, SPAULDING & O'DONNELL, Elmhurst, Iowa.

800 ACRES well improved land, Britton, S. D. Sacrifice sale, \$30 per acre; also 1/4 section wild, \$25. B. J. McMahon, Endicott, St. Paul, Minn.

When writing to advertisers please mention this paper.

WESTERN CANADA

Senator Dolliver, of Iowa, says: "The stream of emigrants from the United States to Canada will continue."

Senator Dolliver recently paid a visit to Western Canada, and says: "There is a land hunger in the hearts of English speaking people; this will account for the removal of so many Iowa farmers to Canada. Our people are pleased with its government and the excellent administration of law, and they are coming to you in tens of thousands, and they are still coming."

70,000 American farmers who made Canada their home during 1909. Field crop returns alone during year added to the wealth of the country close to \$170,000,000.00

Grain raising, mixed farming, cattle growing and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts; 160 acres pre-emption at \$5.00 per acre within certain areas. Schools and churches in every settlement, climate unexcelled, soil the richest, water and building lumber plentiful. For particulars as to location, low settlers' railway rates and descriptive illustrated pamphlet, "Last Best West," and other information, write to Sup't of Immigration, Ottawa, Can., or to Canadian Cdn. Act. (17) W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.

SELL YOUR FARM

And buy a new one FIVE TIMES AS BIG in the Tramping Lake and Houghton Lake Districts

SASKATCHEWAN, CANADA

WHY? Because you can make more than five times the profits. Send for our free booklets. Our first excursion of this season leaves St. Paul, Minn. Wednesday, April 20th. GO WITH US. Low fare—Berths and Meals \$1.50 per day.

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IN the famous Arkansas Valley of Colorado, with perpetual water right. The soil is rich and deep, producing all kinds of crops. Alfalfa, wheat, oats, barley, sugar beets, potatoes, cantaloupes, fruits and berries, grown here. Big demand for poultry and honey. A few tracts offered at \$30 per acre (water included) on terms without interest. This land will double in value after the first year; railroads and good markets. Your fare paid if you buy 80 acres or up. Write for illustrated maps and booklet. Farmers wanted not speculators.

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Near Gulf Coast Region \$10 Per Acre—Easy Terms

Healthy, Well Watered Lands of Western Louisiana In Vernon Parish, at Pickering, on Kansas City Southern R. R. Early fruit, truck grown all year; poultry and dairy paradise; soil adapted to great variety of crops. NO IRRIGATION SCHEME, 60 inches annual rain fall. Beautiful clear streams, pure drinking water. Healthy; highest altitude in state; rolling; near county seat—good markets. See our Demonstration Farm of 240 acres. Something growing always, chicks hatched all seasons. Live stock requires no shelter. Write today for free booklet. J. D. LEBRIE, Gen'l Land Agent Pineand Mfg. Co., 633 Keith & Perry Bldg., Kansas City, Mo.

FREE 200 PAGE BOOK ABOUT MINNESOTA

COMPILED by the state, describing industries, crops, live stock, property values, schools, churches and towns of each county, and Minnesota's splendid opportunities for any mau. Sent free by

State Board of Immigration, Dept. N State Capitol, St. Paul, Minnesota.

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South Dakota Land

KADOKA, STANLEY COUNTY.

RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gilt-edge farm mortgages for sale. For description, write

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I OWN forty quarter sections of land in Minnesota and North Dakota that I will sell in 160 acre farms on the crop payment plan to experienced farmers who can furnish good recommendation. D. J. McMahon, Endicott Bldg., St. Paul, Minn.

READ THIS!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

Buy Corn Belt Lands In the Famous Montevideo district of S. W. Minnesota. \$30 per acre and up. Free pictorial and descriptive price list. Address E. H. Crandall, The Land Man, Montevideo, Minn.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

Apr. 12, Thomas & Ellison, Rushville, Ind.
 Apr. 20, Geo. McMaster, Bedford, Iowa.
 Apr. 28, Henry H. Kuper, Humboldt, Neb.
 May 20, W. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 2, J. G. Biller, Hartington, Neb., at Crofton, Neb.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 18, H. D. Parsons, Newton, Iowa.
 June 21, Jesse Binford & Sons, Liscomb, Iowa.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranzi, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

Apr. 12, W. W. Andrews and J. B. Robinson & Co., Maryville, Mo.
 May 24, J. M. Graham, Indianola, Iowa.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 6, James Williams, Marcus, Iowa.
 June 7, Stanley R. Pierce, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.

Hereford Cattle.

Apr. 13-14, Combination sale at South Omaha, Neb., W. N. Rogers, Mgr., McCook, Neb.
 Apr. 16, James E. Logan, Kansas City, Mo.
 Oct. 20, H. D. Clore and Z. T. Kinsell, Chariton, Iowa.

Holstein-Friesian Cattle.

June 21, 22 and 23, Robt. E. Haeger, Algonquin, Ill.

Shire Horses.

April 20, Trumans' Pioneer Stud Farm, Bushnell, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Lincoln Hotel, Lincoln, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FILED NOTES.

Parties in search of good Double Standard Polled Durhams should get into communication with Mr. W. B. Bonfield, of Ottumwa, Iowa, whose advertisement will be found on page 45.

Mr. Will Michael, of Selma, Iowa, whose advertisement of Chester White hogs appears on page 42, is offering some remarkable bargains to our readers. These are fall pigs weighing from 100 to 125 pounds and he prices them from \$15 to \$25 each.

Mr. J. R. Ballard, of Ames, Iowa, as will be noted in his advertisement on page 41, has for sale some extra-quality Short-horn bulls. One of these is a straight Scotch and the other has good Scotch-topped crosses. Mr. Ballard is quoting extremely low prices on these animals.

Messrs. Hart Bros., importers and breeders of draft horses at Osceola, Iowa, advise us that on the 6th of April they will receive an importation of twenty imported horses. These include two Shires, four Belgians and fourteen Percherons. They crossed the water on the steamship Minnehaha, of the Atlantic transport line. See advertisement on page 45.

A recent note from Mr. Geo. H. White, breeder of Short-horn cattle at Emerson, Iowa, says: "I wish to report the sale of the good young bull, Roan Counsellor 311557, to Mr. James G. Johnston, of Holdrege, Neb. This is one of the best young bulls that ever left my farm. He weighed 1,600 pounds at twenty months of age and will undoubtedly be seen at some of the leading fall shows. I also sold to Mr. E. C. George, of Henderson, Neb., the Scotch cow, Lady Ury, and the show heifer, Hampton's Beauty. I still have on hand a number of very choice bulls and among them show prospects."

Prevention of Sore Shoulders.

It is within the range of possibilities that the conditions of the past winter and the present spring will put the farm horses into the season's work in a form which will tend to a greater proportion than usual of sore shoulders and other ills incident to the opening of the work season. It is not only a humane act, but a good business plan as well to prevent sore shoulders rather than to wait and try to cure them. Prevention is best effected from the use of the Langford cotton-filled collar, as advertised on page 21. These collars are light, pliable, durable and humane. They fit any shaped neck and when they are used galls are impossible. An illustrated treatise on the sub-

ject of the shoulder of the horse and his treatment is published by the Powers Mfg. Co., 131 Sycamore St., Waterloo, Iowa, and is sent free to any reader of this paper who requests it.

Swinging on the Gate.

The advertisement of the Ajax Gate Company on page 8 of this paper, represents five men swinging on one of their \$3.95 ten-foot steel gates. This proves their statement that it is the strongest built gate on the market. It has other advantages in that it is easily adjusted, is made with close, heavy woven wire with six-inch stays and tighteners on every line wire. Note the special prices at which this gate is offered. When you order pin a check for the amount of the gate wanted to the advertisement and forward to the Ajax Gate Company, 252-C, Waterloo, Iowa.

Iowa's Valley of the Nile.

Messrs. H. L. Craven & Co. advertise Iowa farms on page 37 of this paper. They call them corn and alfalfa farms because they are the highest producers of corn and alfalfa. They are adapted to the raising of all the grains and grasses usually found in the same climate. There is no better soil in the world nor any which responds more quickly than that of the Missouri valley section, in which these farms are located. It stands as a rival to the noted valley of the Nile in this respect. For prices on these farms and detailed information address Messrs. H. L. Craven & Co., Onawa, Iowa.

The Gade Air-Cooled Engine.

The Gade air-cooled gasoline engine is different from others. It is a perfect air-cooled engine that has successfully undergone the most difficult tests to which an engine could be put. It is made in various sizes. The manufacturers advise on page 28 that this is the only practical air-cooled engine on the market. It is sold on its merits and on the Gade plan which involves neither the payment of money nor the depositing of it in a bank. If you want to learn the points of the Gade plan and secure also the Gade catalog write to Gade Bros. Mfg. Co., 25 Main St., Iowa Falls, Iowa.

Corn and Cob Grinding.

Utilizing the complete feeding value of corn demands that it be prepared by at least grinding. This calls for grinding machines such as the Fairbanks-Morse steel feed mill, advertised on page 15 of this issue. These mills are notable because of their light draft, large capacity, strength and durability. They grind corn and cob thoroughly and will also grind at the same time other small grains. They are made in two sizes. For additional information concerning these mills send for the Fairbanks-Morse feed mill catalog L D 693, addressing the request to Fairbanks, Morse & Company, 481 Wabash Ave., Chicago, Ill.

The Black-Crow Is Popular.

The Black-Crow automobile is one of the biggest bargains at \$1,000 that any farmer ever had. It is driven by a powerful, silent engine. Its construction is handsome and strong and its operation a matter of ease and simplicity in every case. There are six styles of the Black-Crow, ranging in price from \$1,000 to \$1,750. It is guaranteed to give perfect satisfaction and the manufacturers insist that they give more value for the money than any other car made. Full descriptions of the 1910 Black-Crow models and other facts of immense interest and importance to automobile buyers will be found in the catalog A-139, for which write to the Black Mfg. Co., 215-217-219 West Ohio St., Chicago, Ill. The advertisement of the Black-Crow will be found on page 22.

Surface Cultivation.

The conservation of moisture on the ordinary farm is of the greatest importance in that it preserves for use at a later period those elements of growth which are literally destroyed if careful cultivation be not taken. Proper surface cultivation insures this conservation of moisture and at the same time keeps the seed bed in an ideal physical form. Proofs of the truth of these statements will be found in the advertisement, on page 18 of the J. D. Tower & Sons Company, 40th St., Mendota, Ill. These gentlemen manufacture the Tower surface cultivator which they believe to be particularly adapted to corn cultivation. They have prepared and send free to every reader of this paper, who asks for it, a book on corn culture. At the present time every particle of information on that subject will be welcome; send for it.

Life-Saving Low Wheel Wagons.

There is no use contradicting the statement that more farmers have been sacrificed by the hard work of pitching hay onto high wheel wagons than in any other department of the farm work. The low-style Empire



wheels illustrated herewith make hay loading easy. They also improve any farm wagon in that they put the bed within easy reach. The wheels do not cut out and injure roads and they have a dozen other important advantages which may be fully learned from the catalog of the Empire Mfg. Co., Box 685-Quincy, Ill. It is sent free of

charge if you mention this paper when writing.

Mares at Private Sale.

Messrs. Geo. W. Souers & Sons, of Huntington, Ind., advise us that for sufficient reasons they recalled a mare sale which had been announced for March. They have now en route from Europe an importation of mares that will be offered to our readers at bargain prices. These, they state, are the right kind. They have also some top notcher stallions. They import Percherons, Belgians and Coach horses, as advertised on page 45.

A Sanitary Hog Trough.

The picture in the advertisement of the Rockford Hog Trough Company, on page 36, gives excellent descriptions of the Rockford trough. It shows that it is substantial, convenient and that it is as nearly perfected, from a sanitary point of view, as any trough can be made. It is made of galvanized iron and, therefore, is perfectly durable. It is sold at a reasonable price which may be learned by addressing a request to the Rockford Hog Trough Company, Rockford, Ill.

The Hupp Motor Car.

The Hupmobile, as advertised on page 5 of this paper, claims to have been proven by actual performance to be equal to the farmer's every need, and then on top of all that it sells at the low price of \$750 on board cars at Detroit, Mich. It is a four-cylinder, twenty-horsepower machine, with all the later conveniences and improvements. For detailed information, special prices and other matters of interest fill out the coupon in the advertisement and forward it to the Hupp Motor Car Co., Desk 13, Detroit, Mich.

A Shire Mare Sale.

Late advice from Trumans' Pioneer Stud Farm, at Bushnell, Ill., contains the information that on Wednesday, April 20th, that concern will hold a public sale of imported Shire mares. This sale will contain a lot of splendid individuals purchased from leading breeders of England and at the great London Shire Horse Show. This sale is made for the purpose of accommodating buyers and with the aim to clean up the season's business in a lump. Additional particulars of this sale will be given in later issues of this paper.

A Thirty-Day Horse Sale.

The attention of our readers is directed to the advertisement of Messrs. S. Metz & Sons, as it appears on page 47. This announcement states that for the next thirty days the firm will offer bargain prices in American-bred Percheron stallions and mares, imported Percheron mares, imported Shire mares and imported Belgian stallions and mares. These stallions will be sold guaranteed to be sound and 60 per cent breeders. The special prices named in the advertisement are made only in order to effect a reduction of stock and make room for the new importation of sixty head of stallions and mares that will land April 20th. For additional information visit or write to Messrs. S. Metz & Sons, Homewood, Ill.

Ornamental Farm Fences.

Farm fences throughout the country are bad enough at best. Those which surround the homes and which should in some degree be of ornamental character, are notably lacking in that respect. As a matter of fact, not one farmer in 10,000 takes any pains in the fencing of his homestead. The Ward Fence Co. presents an opportunity to secure an attractive metal fence that would be an adornment to any front yard and at the same time afford better protection against chickens, hogs or cattle than any ordinary fence would do. The Ward ornamental fence is described in the catalog and price list, for which address the Ward Fence Company, Box 450, Decatur, Ind.

Salzer's Seed Supply.

No farmer should buy garden or farm seed without first consulting the advertisement of the John A. Salzer Seed Co. on page 17 of this paper. The Salzer Seed Co. have been in existence for so many years that they need no recommendation. Their business has assumed a magnitude second to none. They sell annually more than 50,000 bushels of seed corn and seed wheat, and more than 100,000 bushels each of seed potatoes and seed oats, clover and timothy, with an endless amount of other farm and vegetable seeds. At the present time they have in stock seed enough to supply the world. They make a special offer of ten packets of farm seeds for ten cents. Forward the ten cents to the John A. Salzer Seed Co., 124 South 8th St., La Crosse, Wis.

The Maytag Car.

The wonderful March weather of the present year cannot have failed to have awakened the enthusiasm of everyone who takes pleasure in country rides. In this day that means an automobile. Following up the suggestion lands us contemplating the big advertisement which takes up the entire space on page 11 of this paper. The Maytag is a perfected car. It is a western-made car. It is not an experiment, but has been constructed upon approved lines, along right principles and of materials best to be had. The advertisement tells so much of the detail of construction that little is left for us to say on the question. But there is more to be said and this may be learned from a handsome publication entitled, "The Hill Climber." It tells all about the Maytag that can be learned. It proves that the Maytag is America's greatest car for country roads. It shows its superiority as a hill climber, gives prices that are within the reach of everyone. This book may be had upon request sent to

the Maytag-Mason Motor Company, 35 Maytag Station, Waterloo, Iowa, or it may be had by filling out the coupon in the advertisement.

A Weeder and Mulcher.

More intensified farming demands the use of implements and machines which will do more perfect work than the old ones. In this class stands the Barker weeder and mulcher, advertised on page 35. It is, in particular, a garden tool adapted to intensified cultivation of gardens and small tracts. It is not only a perfect implement and a labor saver, but the power being applied after the plan of a lawn mower, its operation requires so much less power that it will do the work of ten men with hoes. For special prices made in order to introduce this little weeder write to the Barker Mfg. Co., David City, Neb.

A One-Man Runabout.

The wonderful convenience of the auto cycle has brought a popularity to that vehicle which is nothing less than phenomenal. As a means of annihilating distance it has no superior today. The manufacturers, during the past few years, have taken special pains toward the perfection of the power and propelling devices of the auto cycle and have, at the same time, succeeded in reducing the price so that it is easily within the reach of almost anybody. For a handsomely illustrated booklet which describes various forms of auto cycles note the advertisement on page 35 and forward a request to the Excelsior Supply Company, Randolph Street Bridge, Chicago, Ill.

The Bushnell Hinge-Door Silo.

The advertisement of the Bushnell hinge-door silo will be found on page 28 of this paper. It tells a few of the important points of advantage of the hinge door as used exclusively on the Bushnell silo. Aside from the advantages of this door the Bushnell is a silo constructed of the very best materials and in such a manner as to secure every advantage of an air-tight condition that can be found in any other kind of a silo. We have not at our command sufficient space to give the important details of the Bushnell and we, therefore, request that our readers send for the special Talk No. 2, as issued by the manufacturers, the Bushnell Tank Works, Bushnell, Ill.

Fisk Automobile Tires.

Those of our readers who look to the perfection of tires in their automobiles will find something of interest in the advertisement of the Fisk Rubber Company, which appears on page 2. The Fisk removable rim is said to be the safest, quickest and best obtainable and the only rim which works equally well in muddy and freezing times. This perfection has been obtained by years of experimentation under all conditions. The Fisk "Quality" tires also stand high in the estimation of users. They are made in four styles as enumerated in the advertisement. Our friends who require further information should send for catalog to the Fisk Rubber Company, Chicopee Falls, Mass.

Imported Percheron Horses.

A recent letter from Messrs. Maasdam & Wheeler, importers and breeders of Percheron horses, Fairfield, Iowa, contains the statement that the firm now have on hand thirty-five head of great, big, good stallions in fine condition. They are from one to five years old and right in every way. They also have a lot of mares ranging in age from weanlings to six years old. A farmer who recently visited this office made the statement that the horses he had seen on the Maasdam & Wheeler farm were as good as he had seen anywhere and he had visited many importing stables. For prices or additional information write to Messrs. Maasdam & Wheeler, Fairfield, Iowa. See advertisement on page 45.

Public Sale of Short-horns.

At his Cedar Hill Farm, six miles south of Bedford, Iowa, on Wednesday, April 20th, Mr. Geo. McMaster will make a public sale of twenty-five head of Short-horn cattle, among which will be fifteen good cows and heifers and ten young bulls. He is selling some good young bulls in this sale, most of which are sired by his splendid herd bull, Crowning Goods 299777, a son of Good Choice. These are a good, sappy lot of young bulls ready to do service, and the man that wants to buy a good young bull and buy him right can certainly get one in this sale. He is also selling some good cows and heifers and it will be a splendid time and place to buy some good cattle. Write for his catalog, as it is now ready. Kindly mention The Homestead when doing so.

Beef Is Growing Higher.

The advertisement of the Brookmont herd of Hereford cattle at Odebolt, Iowa, on page 43 of this paper, presents a few arguments in favor of the Hereford as a beef maker and contains suggestions that the present is an economical time to buy breeding cattle. This is true not only with reference to those who wish to maintain pure-bred herds, but to the farmer as well. In fact, it appeals with greater force to the herd of the farmer because his prosperity in the future depends in a very great degree upon the profits secured from his cattle. Ordinary cattle will scarcely more than pay a living profit, while the highest class brings in returns of the most satisfactory character. The good farmer is the man who will get away from averages and keep the type which is a breeder and money maker. Hereford cattle that are well adapted to the work of improving farmers' herds may be found at Brookmont Farm. Mr. A. E. Cook, the manager, will be glad to show them and to present evidence that with ordinary farm care they have produced

wonderful results at Brookmont. Go and see him or write to Mr. A. E. Cook, Odebolt, Iowa.

Important to Tree Planters.

The Home Nursery, of Lafayette, Ill., makes a specialty of selling the hardy catalpa tree to planters. This catalpa has been so thoroughly discussed in the past that it is unnecessary to call the attention of our readers to its merits. There is, however, one point which should be carefully kept in mind and that is the absolute importance of securing the hardy catalpa, or the catalpa speciosa, and for facts concerning it write to the Home Nursery, Lafayette, Ill.

Here is a Record!

Young Beau Brummel's produce have never been exhibited in any class without winning a prize. What sire can boast of such a record? When you buy a Young Beau Brummel bull or heifer you have bought a good individual and one with a good reputation. Like Caesar's wife, they are "not only good, but above suspicion." You can buy some of these cattle, both bulls and females, at Dr. Logan's sale at the live stock pavilion, Kansas City, Mo., April 16th.

Huckstep's Mammoth Jacks.

Mr. J. C. Huckstep, of Eolia, Mo., proprietor of the Fairview Jack and Jennet Farm, never had so many high-class Mammoth Jacks to offer as this season. They are Missouri Jacks that stand from fourteen and one-half to sixteen hands high, have the big heads and ears, big bone and sire the right kind of mules. Mr. Huckstep stands behind every representation and his guarantee is absolutely good. See page 45 for Mr. Huckstep's advertisement and address and when writing or visiting him kindly mention this paper.

The Hardy Catalpa.

A quarter of a century ago there was an awakening among farmers and tree growers on the subject of the catalpa speciosa. The interest devoted to the tree at that time brought out the fact of the superiority of that variety over all others. Today it stands as one of the most valuable sorts of timber. Our friends who expect to plant cannot afford to make their purchases before investigating the merits of the catalpa speciosa as set forth in a new, illustrated booklet sent free to our readers by the Winfield Nursery Co., of Winfield, Kan.

Sale of Army and Navy Goods.

The advertisement of Cal Hirsch & Sons Iron & Rail Company will be found on page 32. It offers a lot of wonderful bargains in army guns, sabres, helmets, bayonets, calf leather shoes, army clothing and other goods. The prices at which these articles are sold is no indication of their value. Mostly they are goods disposed of by the United States government at reduced figures because they are out of date and not in keeping with the present army equipment. A great big book giving prices and descriptions of 1,000 bargains of like character is largely made up of bargains in government goods and may be had by writing to the Cal Hirsch & Sons Iron & Rail Company, U. S. Dept. 104, St. Louis, Mo.

Buy a Crimson Wonder Boar Now.

On this page of this week's issue will be found the advertisement of Mr. W. M. Sells, of Indianola, Iowa, who is offering a number of high-class Duroc Jersey boar propositions. Mr. Sells is offering five boars sired by the sensational sweepstakes winner and noted breeding boar, Crimson Wonder Again, and these are out of that wonderful brood sow, H. A.'s Queen. Mr. Sells, in writing us about these boars, remarks that he has certainly got something high class in these young boars and for those who are looking for something real choice to write or come and see him. He says this fall litter of boars have better ears than anything the old sow has farrowed heretofore and there is every prospect for some more winners in these boars. He also has a lot of other good boars out of some of the most noted sows in his herd, and he says they can now be bought worth the money, and those who come now will get the benefit of his low price. Write Mr. Sells about these boars at once and mention The Homestead.

The Montana of the Future.

Not the distant, intangible future that is to come some time, but the immediate, the next year, that we must all look to with a personal interest. The great state of Montana has not been appreciated by farmers because its advantages have not been put before them. The advertisement of the Great Northern railway on page 26 gives some hints which our readers will do well to consider if they are intent upon a change of location. Authorities on statistics make the statement that the conditions of Montana are such as to justify the expectation that it will become one of the greatest of corn-producing states. They say that it now ranks first in the yield of wheat, having produced 26.7 bushels per acre. In the matter of barley and oats it ranks, in yield per acre, second only to Belgium. Potatoes are cultivated with wonderful success. It is seen that the methods of farming in Montana will differ somewhat from those used in eastern states, but the Montana authorities are devoting their energies toward instructing those settlers who are going on the free farms to be found there toward directing their forces towards bringing about intensified farming and their work is meeting with wonderful success. There still remains open to entry splendid 160 and 320-acre farms of free government land. Most interesting information, however, and such as we have not room

to give in these columns, may be had from a copy of the free Montana opportunity bulletin, for which write to Mr. E. C. Leedy, General Immigration Agent, St. Paul, Minn.

Rope Making on the Farm.

The Ideal rope machine is made by the E. O. Berg Manufacturing Company, of Madison, Minn. The Ideal machine is a thoroughly practical device for making binder twine into substantial ropes of any strength or length desired. Almost every farmer each year has left over at harvest time a few balls of binder twine. This can be utilized in the manner mentioned in a substantial way. The cow tie which ordinarily costs fifteen cents at the store can be had at a cost of two cents and a few minutes' time. The Ideal rope machine weighs three pounds and retails for \$1.50. A still lower price, however, is made to agents in order to introduce it into any community. For these special prices write to the E. O. Berg Mfg. Co., Madison, Minn.

Young Beau Brummel Herefords in Dr. Logan's Sale.

In the sale of young Beau Brummel Herefords which Dr. Jas. E. Logan, of Kansas City, Mo., will hold in the fine stock sale pavilion at that place, on Saturday, April 16th, there will be sixty head of good ones all bred by Dr. Logan and practically all got by Young Beau Brummel. Not an animal listed is over three years of age, every one is an animal of such individual merit and so well bred as to entitle it to a place in some good herd. Among the older bulls is Perfection, a young Beau Brummel, out of a St. Grove dam. He is just two years old and, like all the young Beau Brummels, is a thick-fleshed fellow, with good back and loin, is good around the heart, fills well in both front and rear flanks, has a great head and horn and is one of the best-balanced bulls to be found. His quality and character are such that he should be appreciated. He was the junior calf at St. Joe in 1908 and will make a great show this year. St. Julian, a January two-year-old by Young Beau Brummel, also out of a St. Grove dam, is a bull that will please. Few bulls of such length carrying such a good top, depth of carcass and such feeding quality are found. Like all the Young Beau Brummels, he has the fleshing habit, the mellowness, the great head and horn and lots of character. Suggester, another by the same sire and out of Pride of Sully 4th by St. Grove, is an August yearling whose make-up, quality and character are such that he should please the more critical. There are several bulls of this age that will bear the closest inspection and those looking for herd headers will find Dr. Logan's sale one they cannot afford to miss. Among the thirty females are several show heifers, some that Dr. Logan has shown, others that will make a creditable showing. Dorothy Perkins and Artist, members of the champion young show herd, are a fine pair of show heifers. Artist stood first in class at Des Moines last year and has never been below third. Dorothy Perkins has never stood lower than fourth in class. They have the quality, the thick flesh and are good from end to end. Adelia and Lady Desborough are a pair of much the same stamp, one out of a St. Grove dam and the other out of a Hesiod 2d dam. Young Beau Brummel has made good on these St. Grove and Hesiod 2d cows and a great string of heifers are going through Dr. Logan's sale. These Young Beau Brummel heifers are bred to the great young show bull, Crown Prince, a bull Dr. Logan bred and one that has the character, quality and conformation so essential in a high-class show and breeding bull. Dr. Logan will show him again this year and further winnings will be his, which will add to the value of the offspring of the heifers Dr. Logan sells bred to him. There will not be a better bred lot of Herefords sold this year. All are the modern type and, as Dr. Logan has selected the tops only for this event, it will be one of the best sales to attend to get

TOO LATE TO CLASSIFY.

CLYDESDALE HEADQUARTERS

McLay Bros., Janesville, Wisconsin.

NEW IMPORTATION--18 STALLIONS AND MARES ARRIVED MARCH 12

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine Internationals than any competitor, and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them, too. Why above all today does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

both high-class bulls and females. See page 43 for Dr. Logan's advertisement and address and write him for catalog and further information, mentioning this paper.

Cheaper Fire Insurance.

The cost of fire insurance on farm buildings is greatly reduced where the most effective protection against lightning is provided. Some of the means employed in the protection against lightning are enumerated in the advertisement of Mr. W. C. Shinn, which appears on page 26. Shinn's lightning arrester for telephones gives a guaranteed protection against fire caused by lightning entering the building through the telephone wires. Shinn's heavy copper cable lightning rods afford protection from ordinary strokes of lightning. The combinations are infallible, they give perfect protection. There are many curious facts in connection with lightning; a large number of these are given and some interesting discussions presented in Mr. Shinn's book entitled, "Lightning and How to Control it." This book is sent free to readers of this paper who write for it to Mr. W. C. Shinn, 101 North 16th St., Lincoln, Neb.

You Ought to Be Ashamed.

Any farmer who insists upon having all the labor-saving devices in the accomplishment of the work on his farm and neglects those inexpensive improvements that help to perform the same service in the household work is a subject for reform, as is stated in the advertisement of the automatic power washer on page 6 of this paper. The drudgery of washing during the hot summer season will sap the life and energy of even the strongest. There is neither comfort nor satisfaction in a worn-out feeling all the time. The way to get around this situation is to investigate the merits of the automatic power washer and give it a trial. It is just as effective as a labor saver in the house as the most perfected harvesting machine in the field. These statements are proven fully by a booklet that is sent free to every reader of this paper who sends a postal card request for it to the Automatic Electric Washer Company, Newton, Iowa.

Deep Soil Culture.

The Spalding tilling machine advertised on page 15 is superior to the ordinary plow in that it tills deeply, pulverizes thoroughly to the full depth of the seed bed and works in any kind of soil. It buries the surface trash and provides a perfect seed bed. Deep tilling is a subject that may well be thoroughly investigated. The experience of one man is set out in an excerpt from a letter written by Mr. W. H. Beecher, of Wooster, Ohio, which is as follows: "Ten years ago I bought a wornout clay-loam farm that would not raise a mullein stalk over twelve inches high. I began with plowing from ten and one-half to twelve inches deep, sometimes using five horses to the plow. Of course, this pernicious course called out the copious condemnation of my neighbors. My present rate of crops runs 150 to 200 bushels of potatoes per acre, sixty to seventy-five bushels of oats, 125 to 150 bushels of ear corn, all of which is nearly dou-

Helen's Chief High Notcher

and Glad Col. head my herd of Durocs. Write for what you want.

M. A. KRASCHER, MACON, ILLINOIS.

SHOW BOARS---HERD BOARS

We have some fall and yearling boars rich in the blood of King of Colons and Ohio Chief that are show prospects. We make a specialty of supplying high-class herd boars. Visit us or write for particulars, mentioning this paper.

S. E. Morton & Co., Camden, Ohio.

PUBLIC SALE

Cedar Hill Short-horns

Bedford, Iowa, April 20, 1910.

25 HEAD 15 cows and heifers--10 Bulls. There will be a splendid lot of young bulls in the sale, sired by **Crowning Goods**, a son of Good Choice. Write me at once for catalog.

GEO. McMASTER, BEDFORD, IOWA.

HIGH CLASS

DUROC JERSEY BOARS

I have five September boars sired by the sweepstakes boar, Crimson Wonder Again, and out of H. A.'s Queen for sale that are sensational herd boar propositions. Also a number of other good boars. Write or come and see me. W. M. SELLS, INDIANOLA, IOWA.

ble the yield of the neighborhood. If I can get a little deeper down in my soil I believe the yields can be raised 25 per cent." A book which treats thoroughly on the subject of deep tilling may be had by writing to the Spalding Tilling Machine Co., Dept. F., Superior Ave. and West 6th St., Cleveland, Ohio.

Raising Calves at a Profit.

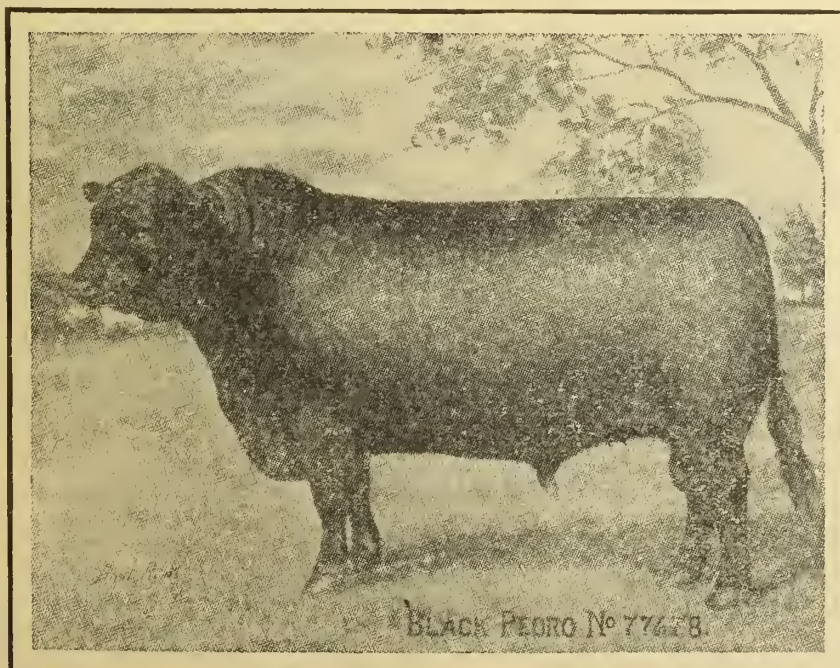
Someone who has investigated the matter claims that it requires not less than 125 gallons of milk to raise a calf to the age of six weeks and that in most cases this has a greater value than the calf would bring on the market. This fact ought to receive consideration and will, no doubt, induce many of our readers to investigate the different methods by which the calf may be brought to a weaning-time age at a lesser percentage of cost. The use of Sugarola calf meal, made by the North-west Mills Company and advertised on page 14, is advised as a most effective means of cheapening the cost of a calf. This meal is made especially for the purpose of use as a milk substitute or in connection with skim milk. It is sold by dealers nearly everywhere. Those of our readers, however, who wish to secure complete information with reference to its merits should obtain a copy of the calf feeding booklet that is sent free by the North-West Mills Company, 519 West 3d St., Winona, Minn.

A Farm Pump Engine.

The advantages and superiority of the engine sold by the Fuller & Johnson Mfg. Co. have from time to time been set forth in our columns by the advertisements of that concern. Recently they have been receiving many flattering letters concerning their farm pump engine. Among these we are pleased to quote that of the Brown Pros. Nursery Co., of Ontario, Canada, in which they say: "When we wrote for your little farm pump engine we thought we had it up a tree, and when it got here we were sure of it. They all said so, but today it is pumping water through 1,200 feet of one and one-half-inch pipe to an elevation of 100 feet and supplying eight greenhouses, twenty head of stock, two packing cellars and four families. We have a windmill for sale." Our readers will undoubtedly appreciate the statements made in this letter concerning the Fuller & Johnson engine. Descriptions and prices may be had by writing the Fuller & Johnson Mfg. Co., Madison, Wis.

Prevention of Blackleg.

While not all farmers have experienced a loss of calves through the attacks of blackleg, there are few but have known of instances in which these losses came almost without warning and were absolute. The necessity for a means of prevention of blackleg directs the attention of our readers to the advertisement of Blacklegoids on page 15, by Messrs. Parke, Davis & Company. Blacklegoids are no experiment, they have proven their value as a preventive in thousands of cases. We have on our table dozens of letters of



Black Pedro 77678, one of the greatest sons of the noted Aberdeen Angus bull, Prince Ito, is well represented in the sale of Aberdeen Angus cattle to be held at Maryville, Mo., on Tuesday, April 12th, by Messrs. W. W. Andrews and J. B. Robinson & Co., of Maryville, Mo. See advertisement on page 44.

commendation for Blacklegoids and most of them are right in line with that written by Mr. John Steckart, of Le Pere, Wis., in which he says: "I used Blacklegoids on seventy-four yearlings, April 7th, on our Rockland Farm. Yesterday I went out to look them over and found them all O. K. They have no soreness, as did some. I have seen vaccinated with a liquid preparation. I am well satisfied with the results of the use of Blacklegoids." For additional facts relative to this prevention write Messrs. Parke, Davis & Co., Detroit, Mich.

A Great Saddle and Speed Horse Event.

Mr. Jas. Houchin, of Jefferson City, Mo., will hold, on April 11th and 12th, a sale of high-class saddle and speed horses that should interest every lover of high-class horses. The sale is to be held at Mr. Houchin's driving park, where every convenience for showing horses and caring for those attending are complete. In case the dirt track should be heavy, the cinder path is available. There are listed in the sale a great string of gaited saddlers that are well broke. Several are show horses that will show in any company. A fine string of walking horses are listed among these. Mr. Houchin also sells several speed horses that have shown trials of 2:15 and better. These are horses that will go out this year, if properly handled, and win in fast company. Mr. Houchin is desirous of establishing an annual event of this sort at Jefferson City and he promises the horsemen that none but high-class horses will be shown or offered. He holds the interest of the saddle and speed horse uppermost, and desires to promote the interest throughout the country. It is, furthermore, Mr. Houchin's ambition to so establish his stud that people in search of saddle or driving horses will come at once to his farm. For more complete information address Mr. Houchin as per his advertisement on page 47 and kindly mention this paper when doing so.

W. W. Andrews-J. B. Robinson Aberdeen Angus Sale.

The Andrews-Robinson & Co.'s sale of Aberdeen Angus cattle, to be held at Maryville, Mo., on Tuesday, April 12th, is one that every lover of the "Doddie" should attend, as these gentlemen are selling the very highest class of Angus. They have listed fifty head, sixteen Blackbirds, nine Ericas, three K. Prides, nine Prides, eight Queen Mothers, three Heatherblooms and one or two of other good families. Never before has there been offered in Missouri such a grandly-bred lot of Angus and no higher class of individuals has ever been put through a sale ring. From each herd just as good animals as these herds contain are listed, as it is their desire to offer in this sale only such animals as will add to the quality of the herds to which they may go. The man looking for herd bulls will find several that should meet with favor. Those who want choice breeding matrons will find here animals to please the most discriminating and all but five or six heifers are bred, several have calves at foot and are rebred. Among the bulls we desire to call attention to is Erica's Black Lad 126672 by Black Lad 2d, he by Black Pedro, one of Prince Ito's greatest sons. Throughout this yearling Trojan Erica bull's pedigree is found as rich breeding as is found in the herd books. Two sons of Black Pedro, Black Boyd, a Blackbird, calved August 29, 1908, and Black Pedro Jr., a Ballindalloch Blackbird, calved October 10, 1908, are another pair of yearlings that should please the discriminating buyer. They have the style, smoothness of finish and fleshing quality. The bull, Even Eric, is the oldest bull in the sale, he being a three-year-old in March. He was got by Earl Eric of Ballindalloch, has been used quite a little in Robinson & Co.'s herd and his get show him to be a good sire. Four or five of his calves sell in the sale. He was purchased when Black Pedro was lost and now that Woodland Black Prince, a full brother to Black Pedro, is to be made chief stock bull, Messrs. Robinson & Co. cannot use him to good advantage. Prince Ken, a Ballindalloch K. Pride by Eppy's Elate, should not be overlooked by those who want a January yearling. The female section of the offering is by far the strongest ever put up in Missouri. Eighteen cows sell with calves at foot and every calf is by a great sire and out of a fashionably-bred cow. This is where buyers get the best values for the money. Several great herd bull prospects are found among these calves. Throughout the catalog is found the get of exceptional sires that have done so much to make the Aberdeen Angus the great beef breed that it is. Every cow is a regular producer of calves of the right sort. In next week's issue more extended mention of the females will be made. In the meantime send to

either Mr. Andrews or Messrs. Robinson & Co. for catalog and kindly mention this paper when doing so. See page 44.

Good Farm, Low Price.

A fine alfalfa, corn and stock farm of 740 acres is being advertised at a low price by Mr. S. S. Benson, of York, Neb., on page 37 of this issue.

Pure-Bred Seed Corn.

Our readers who have to buy seed corn can buy of the Messrs. Petty Bros., of Liberty, Mo., with every assurance of getting corn that is absolutely pure, that is a heavy-yielding corn and corn that has been carefully selected from the farms owned by the Messrs. Petty Bros. These gentlemen furthermore test their corn thoroughly, so that they know they are sending out corn that will grow. Last year they selected 10,000 bushels from fields yielding seventy-five to ninety bushels of sound corn, have graded every bushel and taken tests of all they are selling, and no test has shown less than 97 per cent fertile corn. Each of the three varieties are hardy, the Early Dent being a corn that matures in ninety to ninety-five days. The Clay County White and Petty's Eclipse mature in 110 to 115 days and are hardy varieties. Each variety has been grown by the Messrs. Petty Bros. for seven or more years and has been kept pure and true to type for over fifteen years. They guard each farm carefully, so there is no danger of mixing, and each variety is grown on separate farms. The Messrs. Petty Bros. are farmers and not dealers, hence they know what value farmers attach to pure seed, and it is their intention to sell only such as they know will give satisfaction. Customers who have bought of Messrs. Petty Bros. are again placing orders. Several who have ordered small quantities are increasing their orders as soon as they see the corn sent to them. These are the best recommendations that Messrs. Petty Bros. have corn that gives satisfaction. If you want pure seed corn, order now. See their advertisement on this page and when writing them kindly mention this paper.

Thomas & Ellison's Short-horn Sale.

An all-Scotch dispersion sale of Short-horn cattle will take place at Rushville, Ind., April 12th. Messrs. Thomas & Ellison, of that place, find it necessary to close out their herd of cattle owing to Mr. Ellison taking charge of another farm, and Mr. Thomas feels he does not care to assume the responsibility of caring for the herd. Sixty head will be offered and every one is of the best Scotch breeding. The herd has strong milking qualities and is in a healthy condition, as the number of calves on the farm will show. Among the bulls used in the herd during recent years was Proud Star II, by Imp. Star of the North, and his dam was a Duchess of Gloster cow by Baron Gloster. The next bull used was Champion Archer by Imp. Fearless Archer. His dam was by Imp. Duke of Hamilton and his grand dam was Imp. Rose of Autumn by Gravesend. Next came the present herd bull, Homer Marshall, a bull to be sold in the sale. He is by Whitehall Marshall by Whitehall Sultan. His dam is a Secret cow by Imp. Golden Banner. He is a roan bull, low down and smooth. Anyone needing a tried herd bull and a good breeding animal will do well to look after this fellow. Fifteen cows will have calves at foot, about twenty will be cows and heifers well along in calf and the balance of the females will be yearlings and heifer calves. Twelve bulls will be included and among them animals for the breeder and farmer. The families represented are Victoria, Lovely, Duchess of Gloster, Eliza, Buchan Lassie, Lancaster and Lustre. These cattle are in just nice breeding condition and there will be many bargains. Cattle will be sold that under any other circumstances would not be priced. It will be a good sale to buy some good, well-bred cattle that will do you good. Send for catalog at once, kindly mentioning The Homestead. See their announcement on page 41.

Beau Donald Herefords at Auction.

On Wednesday and Thursday, April 13th and 14th, in the sale pavilion at South Omaha, Neb., Messrs. W. N. Rogers, McCook, Neb.; W. H. Curtice, Eminence, Ky.; H. N. Thompson, Woodstock, Ill.; T. A. Reece, Savannah, Mo., and others will make one of the greatest Hereford sales of the season. The offering will consist of ninety head of strictly choice cattle. The Rogers consignment will include twenty-two head, nine grand young cows, notable among which is the splendid two-year-old, Miss Donald 3d. A deep, low-set, young cow with great spring of rib and splendid covering, by that great sire, Beau Donald 28th. Miss Donald 4th is another daughter of Beau Donald 28th and has great scale and finish. Monarch Maid 34th is a show heifer by the 3,000-pound Monarch of Shadeland 3d, now in service at Shadeland Park Farm. The grand young bull, Gay Donald 11th, out of a cow by the famous Wild Tom, and sired by the great show bull, Beau of Shadeland 19th, is a very toppy individual and deserves a place at the head of a good herd. Beau Donald 12th by Beau of Shadeland 31st is another sappy youngster of great promise. The twelve-months-old bull, Challenger 3d, by Monarch of Shadeland 3d and out of Shadeland Maid 25th, is one of the best young bulls to be sold this season, remarkably well grown, smooth and well filled from end to end, broad and low, set on good, straight legs make him a proposition hard to duplicate. With fitting this bull could go into the fall shows with good chances of success. Another good calf is Sir Donald by Beau of Shadeland 31st and out of a dam by Beau President. Mr. Curtice is offering a number of fine breeding cows right in their prime. These cows are sired for the most part by Beau Don-

ald. Seven of the cows are safe in calf to the \$9,000 Perfection. Bear in mind that these Beau Donald cows, bred to Perfection, have never failed to produce show stock. The thirteen bulls in this consignment are of the same high quality and character of the ones that have gone to half the states in the Union and are now at the head of good herds, maintaining the outstanding reputation of the Beau Donalds. Mr. Thompson's consignment of eighteen head includes some very fine cows, with a life of usefulness before them, sired by Capricornus, the great Beau Brummel bull that has been used with such success in this herd. Mr. Thompson is now using a young bull, sired by Beau President, and out of a Perfection cow. All the cows in this consignment are bred to him. There are also some very fine bulls in this lot, and especially noteworthy are Perfection Boy 3d and Beau President 8th. These bulls will bear critical inspection. Mr. Reece is offering seven grandsons of the famous March On and we doubt if as fine a lot of bulls have been offered by one breeder this season. These bulls are true to the March On type and have all of the characteristics of this famous strain. A breeder looking for a herd bull can do no better than investigate this lot. Mr. Ben Broughton is listing a few bulls of the usual high character to be found at his Sunny Slope Farm. Mr. Merritt is consigning one of the best Polled Durham herd bulls to be found in the West. It is only for the reason that Mr. Merritt is retaining a great many of his heifers that he would part with him. He is also offering a good Scotch Short-horn, of the Orange Blossom family, that will bear looking

after. Shadeland Park Farm, the property of Mr. W. N. Rogers, McCook, Neb., is now for sale at private treaty. This is one of the best breeding establishments in the country today and parties desiring further information concerning the farm or wishing a catalog of the Hereford sale will kindly mention this paper when writing to Mr. W. N. Rogers, sale manager. See advertisement on this page.

TAURINE

An invaluable preparation for the cure of all Sores and Abrasions on COWS and other ANIMALS. A specialty for inflamed udders.

IN USE OVER 30 YEARS

Free Sample. Prices and Testimonials by addressing

R. RUSSELL,

Southfield, Chidham, West Sussex, England.

1908 Seed Corn

YELLOW Dent stock; hand picked and tested 95 per cent; guaranteed to grow. Write me for particulars. J. J. O'Laughlin, Rome, Iowa.

SEED CORN

PURE BRED

PETTY'S EARLY DENT--YELLOW
PETTY'S ECLIPSE--YELLOW
CLAY COUNTY WHITE
WE ARE FARMERS---NOT DEALERS



Carefully Selected

From our fields that last year produced 75 to 90 bu. per acre of sound corn. It stands the test and our guarantee is behind this test.

High Grade, \$2 per bu.; Extra Select, \$2.75; Crated Ears, \$4.

Petty Bros., Box 4, Liberty, Mo.



I WANT A MAN - ARE YOU MY MAN?

I WANT A MAN who knows the profit in buying, selling and weight, who will be the first one to get the benefit of the introduction of my Steel Frame Pitless Farm Scale, which I have just This 5 ton scale has new compound beam and beam box, free. To who will help me continue my 45 years fight against all scale ment trusts, I will send a scale approval with full information and no obligation to keep if not exactly as represented in writing. The first man gets the introductory price.

feeding by ductory patented, such a man and implement entirely on



"JONES He Pays The Freight"

215 Lee St., Binghamton, N. Y.

ROGERS, CURTICE AND OTHERS 90 High-Class Herefords

AT AUCTION IN THE SOUTH OMAHA SALE PAVILION,

APRIL 13-14, 1910. 48 BULLS--42 COWS

From the Following Great Herds:

W. N. Rogers, McCook, Neb.
H. N. Thompson, Woodstock, Ill.
Ben Broughton, Lake View, Iowa.
W. H. Curtice, Eminence, Ky.
T. A. Reece, Savannah, Mo.
H. A. Rogers, McCook, Neb.
AND OTHERS.



There are fifty Beau Donalds in this sale, sired by Beau Donald, or sons of Beau Donald. There are also seven bulls, grandsons of the famous March On. There will be Show Bulls and Herd Headers, Show Cows and good, useful producers. Cattle for the founding of new herds, and improving those already established. There will also be sold at the same time a splendid Polled Durham herd bull and a young Short-horn bull of great promise from the herd of Mr. Merritt, Dunlap, Iowa Callahan, Zaun and others, auctioneers. Catalog with full details is now ready and may be had by addressing

W. N. Rogers, Mgr., McCook, Nebraska.

The great Hereford breeding establishment, Shadeland Park Farm, is also offered at private sale by the owner, W. N. Rogers. This great farm comprises 828 acres of choice land, 400 of which are alfalfa land.



Own Your Own Cement Mixer

Here is one run by hand or by power as you see fit. (All sizes). Handy as a sewing machine and simple as a sugar bowl--on ballbearings. Sold under liberal guarantee. Write for pictures and prices.

Snell Mfg. Co., South Bend, Ind.

DISPERSION SALE OF SCOTCH SHORT-HORNS

RUSHVILLE, IND., APRIL 12

60 Head--15 Bulls--45 Cows and Heifers 60

EVERY animal in the sale is pure Scotch, of the following families: Victoria, Duchess of Gloster, Lustre, Lovely, Eliza, Mary Ann of Lancaster and Buchan Lassie. Our herd bull, Homer Marshall, by the champion, Whitehall Marshall, included. Write for catalog, mentioning paper.

THOMAS & ELLISON,
RUSHVILLE, INDIANA.

COLS. GEO. P. BELLWS AND FRED REPERT, AUCTS.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago, Union Stock Yards, March 28.—How much higher are prices for cattle going and what will be the decrease in receipts during the next two or three months? These are the paramount questions with both stock yard traders and cattle feeders. Quality considered, the market for beef steers, barring the prime kinds, is the highest in nearly thirty years. As compared with one year ago prices are around \$1.25 to \$1.50 higher. With the general demand so good and with assurance that pork and mutton will continue high in cost, is it not logical to anticipate a continuation of a strong, if not still higher market? That stocks of beef in packers' coolers have been heavily drawn upon is evidenced by their buyers' activity in the trade. Eastern shipping demand is of the hungry and insistent sort, not far from 50 per cent of last week's total arrivals going on this account, and eastern buyers are just as keen bidders this week. The broad outlet for beef is only a reflection of the prosperous condition of industrial affairs in both the East and the middle West. And there is no perceptible cloud on this clear, bright horizon. Another bullish feature is that Lent is practically over. There seems to be no fear of any great increase in receipts at Chicago for the good and sufficient reason that most of the forced liquidation is at an end and those who have cattle in the feed lots are very bullish. The other leading markets, as we have stated before, report a shortage of cattle on feed of 25 to 50 per cent from one year ago. If there are any cattle traders who have bearish ideas they are not voicing them at this time.

RECORD PRICES FOR FEMALE CATTLE.

Never before have such high prices been realized for cows and heifers as recently. It is true that \$8.25 was paid for fancy heifers in July, 1902, but we are speaking of the prices the great bulk of arrivals are making. As compared with the famine supply months of July and August, 1902, the previous highest months for cows and heifers, current rates for the low-grade and medium kinds are anywhere from 50 cents to \$1.50 higher than then, canners and cutters displaying most gain. Barring the prime heifers, other classes are going around 25 cents up from the above months. How much higher prices will ascend depends upon the ability of consumers to foot the meat bill. There seems to be no relief for the buying interests, as supplies are down to very low levels in the country and the trend of beef steer prices is up-

LIVE STOCK ARTISTS.

A. V. LOCK, REMINGTON, INDIANA.
Live Stock Artist. Write me.

ward. Reflecting the high basis to which the market for cows and heifers has climbed, we cite a few representative sales at \$6.25 and higher made by Clay, Robinson & Co. lately:

No.	Kind	Av. Price
21	heifers and steers.....	1,034 \$7.75
20	yearling heifers.....	882 7.70
15	heifers and steers.....	1,025 7.35
25	heifers and steers.....	1,117 7.25
5	cows.....	1,382 7.25
14	heifers and steers.....	1,103 7.15
22	heifers.....	710 7.10
6	cows.....	1,350 7.00
2	Montana hay-fed heifers.....	830 7.00
14	cows.....	1,160 7.00
6	Montana hay-fed heifers.....	755 6.90
2	cows.....	1,200 6.85
17	heifers.....	920 6.75
16	cows.....	1,110 6.75
6	cows.....	950 6.65
5	heifers.....	897 6.65
1	cow.....	1,310 6.55
4	heifers.....	892 6.50
6	cows.....	1,200 6.45
5	heifers.....	663 6.40
8	cows.....	1,220 6.25

BEEF STEERS HIGHEST OF YEAR.

Top beeves last week reached \$8.85 and few sales were made under \$6.00. The great bulk of arrivals sold at \$6.85 to \$8.35. The week closed with prices 15 to 25 cents lower than the finish of the previous week. Cows and heifers showed 10 to 15 cents advance for the week, with most beef grades at \$4.75 to \$6.25 and canners and cutters largely at \$3.25 to \$4.00. Bulls went in main at \$4.90 to \$5.75. Bulk of the veal calves brought \$8.75 to \$9.75. Stockers and feeders declined 25 to 35c, dry weather and the current high prices causing a falling off of the demand. Bulk of feeders went back to the country at a cost of \$5.75 to \$6.50 and stockers in main at \$5.00 to \$5.60.

UNEVEN TRADE IN HOGS.

Trade in hogs last week was of the up and down kind. Buyers tried their best to pound prices to sharply lower levels, but the light supply enabled the selling interests to repair all damage done by them. Top for the week was \$11.02½ and bulk of sales were at \$10.55 to \$10.95.

BIG BULGE IN SHEEP TRADE.

There was another sensational market for sheep and lambs last week, the advance being anywhere from 25 to 50 cents over the close of the previous week. New high prices were paid when woolled lambs sold at \$10.60 and shorn at \$9.80, woolled sheep at \$9.30 and shorn at \$8.60. Bulk of the sales were at \$7.75 to \$8.25 for sheep, \$8.35 to \$9.00 for yearlings and \$9.40 to \$10.40 for lambs.

ALLEN'S SCOTCH SHORT-HORNS

SELL IN SALE PAVILION

South Omaha, Neb., April 5, 1910

50 HEAD Consisting of 10 bulls of breeding age and 40 females of the richest breeding to be sold from any herd in America in recent years. Representative sons and daughters of some of the greatest sires of recent years and whose individual excellence commend them to those seeking material for the upbuilding of their herds. The females—14 will have calf at foot, several more are close to calving and the balance are yearling and two-year-old heifers of superior excellence. Several are imported. The bulls, 10 in number, include Lord Missie 252006, one of the great sires used successfully at Golden Hoof Farm, and a richly-bred lot of yearling and two-year-old bulls of herd-heading character. As individuals they will compare favorably with any to be sold this season and carry a stronger line of breeding. The catalog is complete with details and may be had upon application by mentioning The Homestead, Woods, Bellows and Callahan, Auctioneers. Address

GEO. ALLEN - LEXINGTON, NEB.

Note these sales: April 6th, J. A. Kilgour, Sterling, Ill.; April 7th, F. W. Harding, Waukesha, Wis.; April 8th, Thos. Stanton, Aurora, Ill.

LIVE STOCK AUCTIONEERS.

MISSOURI AUCTION SCHOOL

One hundred and twenty-one students attended the January term, 1910. NEXT FOUR WEEKS' TERM WILL OPEN APRIL 4TH, AT OKLAHOMA CITY, OKLA. The tuition the same as heretofore, \$50.00 down and \$50.00 after you have made \$200 out of the business, no note required. Lifetime scholarship given.

AUCTIONEER JOKER, published monthly at 50c per year. Address: Trenton, Mo., until March 4th, after that date Oklahoma City, Okla.

Wm. Carpenter, President.

H. L. Igleheart

Glendale, Kentucky,

Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

J. L. McILRATH
GRINNELL, IOWA.

Fine Stock Auctioneer

Duroc Jersey and Poland China hogs and Short-horn cattle my specialty. My customers my references. Ask them. Write me.

GEO. B. BUCK
SUNNY HILL, ILL.

LIVE STOCK AUCTIONEER

I AM thoroughly posted on all breeds of live stock. Breeder of Red Polled cattle and Duroc Jersey hogs. Write for terms and dates.

R. W. Mitchell, Albany, Mo.

Live Stock and Real Estate AUCTIONEER

SEVENTEEN years' experience. Write me for dates. Copies of my live stock poems free when stamp is enclosed. Am booking fall, winter and spring dates.

CAREY M. JONES,
Live Stock and Real Estate Auctioneer,

2856 Washington Blvd., Chicago, Illinois.
Phone West 1228.

If you want to buy or sell a Farm, City Property or Subdivision, no matter where located, write for terms and dates.

W. K. HENSS, WAYLAND, IA.
LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

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SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed. **W. F. STRATTON, CAMBRIDGE, IOWA,** Breeder Short-horn cattle and Duroc Jersey swine.

H. S. and W. B. DUNCAN
CLEARFIELD, IOWA.

LIVE STOCK AUCTIONEERS
Thoroughly posted in pedigrees and sales cried anywhere. Write us for dates.

THEO. MARTIN
Live Stock Auctioneer. Bellevue, Iowa.



FRED REPERT,
DECATUR, IND.
Live Stock Auctioneer.

Cattle Sales a
Specialty.....

Write for Dates and Terms.

ELWOOD J. PITTMAN
STERLING, ILLINOIS.

Fifteen years' experience
selling live stock.

Write for Terms and Dates.



N. G. Kraschel
MACON, ILL.

Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.

C. C. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere. Reasonable terms. Have pleased others; can please you.

Write for Dates.



PLINY NICHOLS

WEST LIBERTY, IOWA.

Live Stock Auctioneer

SALES made anywhere. Reasonable terms. I also breed Poland Chinas and Short-horns.

O. L. MOSSMAN, MASON CITY, IA.
LIVE STOCK AUCTIONEER

Thoroughly posted as to pedigrees and values. Write for dates. Terms reasonable.

C. C. KEIL, Auctioneer,
GRINNELL, IOWA.

PEDIGREED STOCK A SPECIALTY.

20 YEARS' experience as breeder and auctioneer. Talk English and German. Write me at once.

Geo. W. Dykes **Live Stock Auctioneer.**
DANA, ILL.

Geo. P. Bellows **Auctioneer**
Pedigreed Live Stock
Maryville, Mo.

A. C. Manifold **Auctioneer**
Tarkio, Mo.
Pure bred sales specialty

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ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

The National Auctioneering School of America, ROOM 218, FUNKE BLDG., Lincoln, Neb.

W. D. STOLLER, Auctioneer
Live Stock a specialty. Address R. 6, Vinton, Ia.

SILAS IGO, Indianola, Iowa
Live Stock Auctioneer. Write me for date.

POLAND CHINA SWINE.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. **HELD BROS., HINTON, IOWA.**

McINTYRE'S BIG-BONED POLAND CHINAS

A FEW more tried brood sows and fall yearlings, and 25 spring gilts, bred to farrow in April and May. They are extra good ones. Also spring and fall boars. Blood of Hadley, P. W. Giant Jumbo and Victor. Reasonable prices. Address **F. W. McINTYRE, Route 5, RED OAK, IOWA.**

Mastodon and Giantess Polands

THE type of these great type Poland Chinas from the most prominent and popular herds of the breed. Sows selected from the breeding of John Blain, Fred L. Rood, W. W. Wheeler, John Matler, H. Dorr, J. O. James, Peter Mounw, Cox & Hollinrake and others. For sale—I will book orders for pigs at weaning time at reasonable prices for the high quality and famous big-type breeding. Come or write and I will price them right to you.

ROY E. STIDUM, R. 5, CARTHAGE, ILL.

CHIEFTAIN 51221 FOR SALE

I am offering the above great boar for sale because I recently bought A Wonder to head my herd. This boar is a son of Chief Tecumseh 4th, dam Crescent Lady. He is 24 months old and will weigh 900 pounds when matured. A great herd boar proposition. Who wants him? Address

H. FESSENMEYER, CLARINDA, IOWA.

FALL BOARS FOR SALE

I am now offering some splendid fall boars for sale sired by my noted show and breeding boar Big Victor and out of my best sows. Address,

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Large Yorkshires
Champion Herd of U. S.

Special offering now 128 gilts, 9 to 12 months, guaranteed safe, due last of March to June, now ready for shipment; weight 200 to 375 lbs., prices f. o. b. \$40 to \$75 each, depending on size, quality, age and date of breeding. Also 20 sows of fall litters at \$25 each. Order early, as demand was never so strong.

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DUROC JERSEY SWINE.

DUROCS

WE have not offering any just now, but watch for us. We have some of the best sows in the country, bred to boars of the same kind. We have a few extra good Red Polled bulls of serviceable age, and will price them right.

"The Always Better Kind."

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25 DUROC JERSEY BRED SOWS FOR SALE

Sired by King Solomon II., Advancer's Choice; others of equal note. Bred for March, April and May farrow. Prices reasonable. Write us at once. Address **A. Leitz & Son, Pierson, Iowa.**

Bred SOWS

WE have thirty head of well-bred Duroc Jersey sows, to farrow in March, April and May for sale, at \$35 to \$50. **White Bros., Perry, Iowa.**

\$25-DUROC JERSEY BOARS-\$25

WE have a grand, good lot of fall and spring boars for sale, sired by Critic's Banker 64757, out of Junior Jim, Ohio Chief and Kant Be Beat sows. **VON SEGGERN BROS., WISNER, NEB.**

B. & C.'S COL. Grand champion, Illinois and Iowa, 1909. Crimson Wonder, 111, grand champion, Nebraska, 1908, and McNells' Model, champion under year, Ohio, Indiana and Illinois, 1907. Sows all sold. A few good boar pigs (Ed. A. Baxter, Pawnee, Illinois. Address (R. L. Couer, Carlinville, Illinois.

THE HOMESTEAD

DUROC JERSEY SWINE.

WE HAVE HAD A VERY GOOD BOAR TRADE

AND still have a few good Col. males left, and they have plenty of quality. One sired by King Solomon II., one sired by Tientsin 2d, the State Fair winner; one spring and one fall yearling sired by old Tientsin 17261. I could spare Tokio 79013, one of the best sons of Tientsin, a line bred Tolstoy boar, and has proven himself a splendid breeder, but owing to having so much stuff related to him, will spare him at a reasonable price; in fact, all the boar stuff we have will go at a very moderate price. We have quite a number of August and September Col. pigs. We will sell cheap, so come on and let us fit you out with a Col. boar; prices right. **A. L. MOSSMAN & SON, RADCLIFFE, IOWA.**

10 GOOD DUROC SOWS BRED 10
ALSO 2 CHOICE BOARS BY KING OF COLS. II

ALL are of our choice breeding. Sows bred to G. C.'s Kan. Col. by G. C.'s Col. and Col. C. by Kan. Col. II. and out of Red Princess. Write or come and see them. **Chaplin & Nordstrum, Green, Kan.**

DUROCS \$22 EACH

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ROSE HILL, MAHASKA COUNTY, IOWA.

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I AM offering 40 head of Chester White bred sows and gilts for sale, bred to my well known herd boars, and they will farrow in March, April and May. Address **S. J. Philson, Harlan, Iowa.**

BLOCKY, good boned Chester White fall pigs, either sex, weight 100 to 125 pounds, at \$15 to \$20 each. Address or come, **Will Michael, Selma, Iowa.**

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. **B. J. Trumbauer, St. Charles, Iowa**

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MAPLE LEAF HERD OF HAMPSHIRE

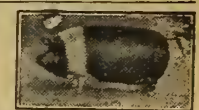


My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

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STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, **E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.**



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WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**



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WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.
MIKE SHARP - - - - - **COAL VALLEY, ILL.**

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HEREFORD BULLS

All by Fulfiller 2d, son of the champion, Fulfiller, and chiefly out of dams by Columbus 6th and Imp. Templeton. They are choice, low, thick and beefy, and are ready for service. All of my own breeding. Come and see them or write.

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FOR SALE.
Double Standard, two years old.
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25 Head of Spring Boars
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All good ones and guaranteed breeders. Prices reasonable.
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High Notcher

Glad Col. and King's Col. head my herd of Durocs. I will sell King's Col. by King of Cols. Write for price.

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Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

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Write Your Wants.

BEEF IS GROWING HIGHER

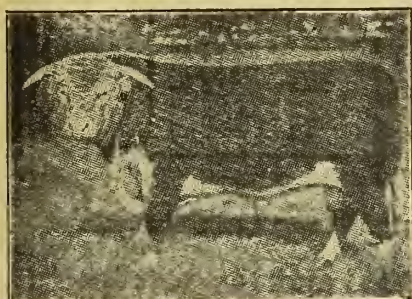
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I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address

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THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

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100 HEAD to select from, bred from the leading strains. Parties wanting bulls or females to improve their herds, write us, we can supply you. High-grades in ear lots picked up on short notice.

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From two weeks to eight months old. Fashionable breeding, large milking dams. Sir Netherland Cornucopia, whose two nearest dams average thirty pounds butter, and six nearest dams twenty-five pounds in seven days at head of herd. Prices moderate. Send for sale list.

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EVER held. June 21, 22, 23, 1910. Over 300 head Peaches and Cream, bred direct from the world's champions. For information, watch The Homestead or write R. E. Haeger, Algonquin, Ill.

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10 Bulls fit for service. Cows and heifers any age. **W. R. Gates, Fort Atkinson, Wisconsin.**

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26 HEIFERS

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Am selling 60 head of extra good cattle. All bred by me and practically all sired by Young Beau Brummel.

Everybody knows about Young Beau Brummel.

Not an animal over 3 years old.



I cannot give you the details of this offering and do them justice.

Come and see my cattle.

Every one tested for tuberculosis at my expense.

Send for catalog.

26 HEIFERS

JAS. E. LOGAN

1208 Wyandotte St., Kansas City, Mo.

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34 BULLS

HOLSTEIN-FRIESIAN CATTLE.

Rock Brook HOLSTEINS

I have a few choice young bulls for sale that are fit to head good herds.

Also a few choice cows and heifers for sale.

HENRY C. GLISSMAN,

Station B,

OMAHA, NEBRASKA.

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30 Holstein Bulls for Sale

10 HEAD are from A. R. O. dams and balance are from dams not tested. These bulls are in age from five to fourteen months; well-grown and first-class individuals, from dams that are kept for profit. These bulls are sired by two sons of Homestead Jr. DeKol, the sire of Grace Payne 2d's Homestead, world's champion cow. Balance by Johanna Rue, Sarcastic Lad, 12 A. R. O. daughters and close up in breeding of Colantha 4th Johanna. Prices low according to stock. Mention this paper when inquiring. For information, address

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RALPH TRATT, WHITEWATER, WIS.

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Established 1887. TUBERCULIN TESTED.

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HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfold Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thicket, priced right for quick sales. Farm in city limits. **O. V. Battles, Maquoketa, Iowa.**

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ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by Imported Ideal of Stranden 29154 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. **R. Wilkinson & Sons, Mitchellville, Ia.**

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I HAVE a splendid 2-year-old Trojan Erica, a 2-year-old Blackbird and Pride bull. Also Queen Mothers and several younger bulls at bed rock prices. **John H. Fitch, Lake City, Iowa.**

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WE are offering a splendid 2-year-old, double-bred Blackbird bull for sale; one excellent Gilt bull; 3 Prides and several others. These are good bulls, and our prices are bed rock.

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ALFALFA HERD ABERDEEN ANGUS Erics, Blackbirds, Prides, Queen Mothers for sale. **Harrison & Harrison, Indianola, Neb.**

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50 HEAD HIGH-CLASS HERD BULLS



BLACK PEDRO

AND CHOICE BREEDING FEMALES
18---HAVE CALVES AT FOOT---18
16 Blackbirds, 9 Ericas, 3 K
Prides, 9 Prides, 8 Queen
Mothers and 3 Heatherblooms



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WE are more than pleased to be able to offer what we think, the most fashionably bred and the best lot of cattle individually that the public has ever had the opportunity to bid on in Missouri. We offer some herd bulls that should interest you and would deem it a favor if you would send us your name and address so we can mail you a catalog. Address, mentioning this paper, to

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FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Wm. M. Smith & Sons, West Branch, Iowa.

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SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

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I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

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We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices. SMITH & BARNHART, South English, Iowa.

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20 Short-horn bulls for sale, of serviceable age; all good colors and choice breeding; and well grown. Prices right. Lee & Prentiss, Vermillion, S. D.

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WE are offering six head of good young Short-horn bulls for sale, five reds and one roan. Good ones and at reasonable prices. Write us at once. H. Pritchard & Son, Walnut, Iowa.

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CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and Bred to Narcissus King, singly or by carload. You will buy if you see them.

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FOR SALE--From one to two years old, of the blocky, beefy type; herd headers also. 25 heifers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address

I. BARR & SON, DAVENPORT, IOWA.

Three Pure Scotch Bulls FOR SALE

FOURTEEN to 18 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight.

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A N extra 14-months' Scotch (Secret) calf by Lavender Fitz, out of a heavy milker. A husky, 21-months' red fellow by the same sire.

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FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

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A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.



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Aluminum Ear Markers are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address WILCOX & HARVEY MFG. CO., Dept. A, 325 Dearborn St., Chicago, Ill.

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TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls. Headlight and Brawith Lad. For description and prices, address

W. W. VAUGHN - MARION, IOWA.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The International winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.

W. J. HATHER, ORD, NEBRASKA.

Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all reds; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live-and-let live prices.

R. M. Young, Cook, Johnson Co., Nebraska.

BATES BULLS

SOME choice Short horn bulls of the most fashionable lines breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

POLLED DURHAM CATTLE.

Polled Durham and Short-horn

COWS, heifers and young bulls. Herd bull, But-tonwood Marshall 17th 25332. X5012, 4 years old, for sale. Choice 2-year-old Poland China herd boar. P. S. & S. Barr, Box 11, R. 5, Davenport, Ia.

Ottumwa W. B. Bonfield, Ottumwa, Iowa, breeder of Double Standard Polled Durhams, Bulls and heifers for sale. Fair prices.

Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. Wm. Barrans, Lenox, Iowa.

JERSEY CATTLE.

King Sappho King Jerseys

WE offer a few mature cows for breeding purposes, a few young cows and heifers and a magnificent lot of young bulls sired by King Sappho King 65262 and Loretta D's Champion Son 77002. J. Q. Emery & Son, Edgerton, Wisconsin.

VALLEY FARM

IS offering a few yearling bulls, sired by Blue Bell's Eminent 74774. Also a few bull calves. These are a fine bunch and will be sold cheap. For particulars, write Fred Stuble, Black Earth, Wis.

RED POLLED CATTLE.

SEAMAN'S Red Polled Cattle. 50 h'd., the equal of any ever sold in Ia. 7 yrlg. and 2-yr.-old bulls, 40 to 50 cows and heifers of the greatest milking families known to the breed. Part of the old W. H. Seaman herd, Davenport, Ia. Visitors can be shown 125 head of as good Red Polls as can be found in U.S. Gus C. Seaman, R. 5, Davenport, Ia. Telephone to farm.

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

HORSES AND JACKS.

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and ex-



perience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.



Percheron and Belgian STALLIONS and Mares

Imported and home-bred. Big, drafty and high styled. Our price is right. Come and look over our string of good ones. Barns one block north of C. & N. W. depot, 1/2 mile north of C. M. & St. P. R. R. depot. E. H. Knickerbocker & Son, - Fairfax, Iowa.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14 1/2 to 16 hands.

Everything guaranteed as represented. Est. 1892. J. C. HUCKSTEP, Prop., EOLIA, MO. Pike Co.



Percherons and Belgians

THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY." Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.

W. J. BUTLER, OTTAWA, ILLINOIS. Long Distance Phone.

Percheron Stallions and Mares

SHIRE, Clyde and French Draft stallions. Standard-bred stallions and mares. Registered Draft mares. (Decatur County). E. P. Hamilton & Sons, Garden Grove, Ia.

Percheron Stallions Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. Will F. Hooker, Northboro, Page Co., Ia.

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. 1/2 ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$500 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

FOR sale—A Morgan stud colt, coming three years old; color bay; a fine individual and priced reasonable. Come or write F. Bowman, Eldora, Iowa.

HORSES AND JACKS.



GEO. W. SOUERS & SONS, HUNTINGTON, IND. IMPORTERS OF

PERCHERON AND BELGIAN ...HORSES...

If you want to see the best bunch of Belgian stallions to be found anywhere in the West, come to our Sioux City branch barn. Our guarantee is iron clad and there is no importer in the United States who can beat our terms and prices. A visit will convince you. Write for our 1910 catalog. Barns at the Sioux City Stock Yards.

Herbert E. Bray, Manager, Sioux City, Iowa

PERCHERON, ENGLISH SHIRE AND BELGIAN STALLIONS

MR. FARMER—do you intend to purchase a stallion this spring? We have just received a new importation of 25 head of **PERCHERON, ENGLISH SHIRE and BELGIAN STALLIONS.** These stallions have never been shown to the public, but our sale barn containing this new importation will be thrown open to our customers on March 12th. If you want to get in on the ground floor and get your pick from this importation, you want to make arrangements to visit us at an early date. They are an extra lot of good, heavy-boned, drafty stallions, ranging in age from two to five years and weigh from 1,700 pounds up. They are nearly all solid colors. We also have 40 head of the above named breeds imported last August and October. They are all first-class in every respect, both as to their breeding and general make-up and will please the most discriminating buyer. As to our prices, we will say that we will give prospective purchasers prices that cannot help but please, breeding and quality considered. We give a straight 60 per cent guarantee without any ifs or ands attached to it. **SEND FOR OUR 1910 CATALOG.** It is free for the asking. Our sale barns are located opposite the University State Farm. Offices in the Lincoln hotel.

WATSON, WOODS BROS. & KELLY CO., LINCOLN, NEB.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of

PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

L. M. HARTLEY PINE RIDGE FARM, Salem, Ia.

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

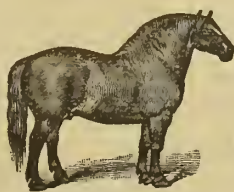
You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Percherons and Belgians

I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

FRANK L. STREAM, Creston, Iowa.

SHETLAND PONIES FOR SALE

A 3-year old matched team, a 5-year-old and a yearling, all mares, and the three older ones safe in foal by an imported Iowa state fair winning stallion. Write for prices.

SHERMAN EDWARDS, Bondurant, Iowa

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred, I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. **W. L. DeCLOW,** Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.

Stallions and Mares ...For Sale...

THE Iowa State College is offering for sale two choice Clydesdale stallions, coming two years old; one Clydesdale mare, five years old, and one imported Shire stallion, five years old. Address

DEPARTMENT OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

80 IMPORTED and recorded home-bred Per-

chers and recorded home-bred Per-mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address **GEORGE W. BILBO, CRESTON, IOWA.**

HORSES AND JACKS.

Reserved Champions

PERCHERONS AND BELGIANS



2 IMPORTATIONS, 1909, 2

Do you want a first-class stallion or mare? Sound, big bone, size, wide back, true action. PRICES LOWEST. TERMS MOST LIBERAL—GUARANTEE GENUINE. Come and see for yourself GOODS that are a pleasure to show. Trains nearly every hour any direction. Interurban from Davenport, Iowa. Stables in town. For further information, write us.

CHAMPLIN BROS., CLINTON, IA.

JOHN MORAN

NEVADA, IOWA.

IMPORTER AND BREEDER OF

PERCHERON Stallions and Mares

At the present time I am offering twelve head of grand imported mares and three imported stallions at prices that will look attractive to buyers. If you are intending to buy come and see these stallions and mares. The mares are from yearlings up to four years of age, both blacks and grays, and matched pairs can be selected. For good goods at the right kind of prices I can satisfy your wants. Come and see me.

Horse Breeders



Artificial MARE IMPREGNATORS

We GUARANTEE you can get from 2 to 6 mares in foal from one service of stallion or jack. Increase the profits from your breeding stables by using these impregnators. No experience necessary to use them successfully. Prices, \$3.00 to \$5.00 each prepaid.

Popular SAFETY IMPREGNATING OUTFIT, especially recommended for impregnating so-called barren and irregular breeding mares, \$7.50 prepaid.

Write for CATALOGUE which illustrates and describes our Impregnating Devices, Breeding Hobbles, Stallion Brides, Shields, Supports, Service Books, Etc.

CRITTENDEN & CO., Dept. 48, Cleveland, Ohio.

Increase Your Profits

HORSES

PERCHERONS, Belgians, German Coaches

AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON, BATAVIA, IOWA.

Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Aekbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales.

L. A. MATERN, - WESLEY, IOWA.

FOR SALE—A splendid high-grade Shire stallion; has plenty of size and bone; weighs 1750 pounds; is 4 years old and in excellent breeding condition. Lucers Brothers, Route 4, Sigourney, Iowa.

Pony for Sale Spotted Shetland, 4 years old; in foal; safe for children. Address **LOCK BOX 61 - EARLVILLE, IOWA.**

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. Ben Bohlander, R. 2, El Paso, Ill.

HORSES.

PERCHERONS

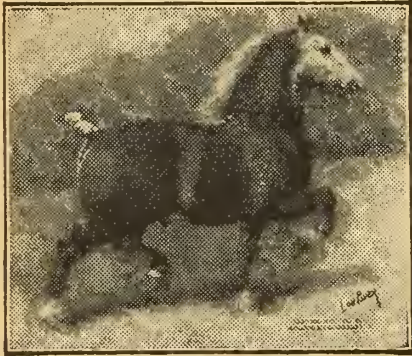
WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



**COME AND SEE KEISER'S PERCHERONS AT KEOTA.
C.O. Keiser, Keota, Iowa**

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

Stallions and Mares

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.



HENRY LEFEBURE, FAIRFAX, IOWA.

REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.**

Paramount Stock Farm Breeds and Imports High-Class Percherons, Shires and Belgians

SURVEYOR 9222 (24818), International champion, heads my herd of Shires. My show record is unsurpassed. Large importation of ton stallions and mares arrived August 1st. Stallions and mares weighing 2,250 lbs. each. My entire 1908 importation has given satisfaction. I buy no counterfeits. If you want a high-class horse at a right price, and a square deal, come and see me. Farm near Hudson, 9 miles from Waterloo.

WM. CROWNOVER, HUDSON, IOWA.



HORSES.

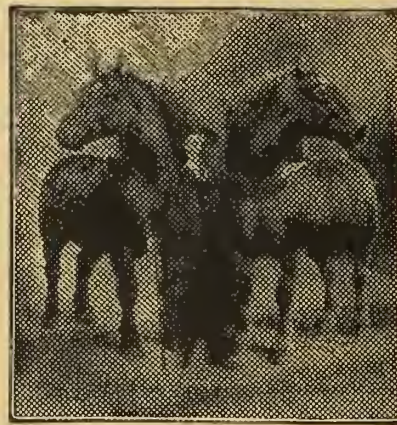
FRANK IAMS'

"Selling Clothes" will fit all buyers, prices reduced for 60 days. He has all his Prize Winners and largest horses on hand. His 1910 Imported Stallions have all competitors "skinned to a frazzle." They are "Rosy Ripe and in the 'Pink of Condition.'" All imported September, 1909, and "fully acclimated." They are "Live wire business propositions" that "knock the persimmons" on a "wide-awake horse buyer's Easter hat." Iams' "Peaches and Cream" imported stallions are "Eye-openers," "Big Diamonds" (compared with others). His barns are full of "Top Notchers" and at "big bargains," and all must "positively be sold" within the next sixty days. Iams'

FORTY PRIZE MEDAL WINNERS

at Paris and Brussels and leading European "Horse Shows" are still in Iams' Big Barns. "Ikey Boys," get into Iams' "money-saving" game. Buy a stallion and save \$300. Iams "tickles" buyers with "Rippers" at "Let-Live Prices." Owing to bad crops, panic—Iams' cash, his 28 years' successful business. He bought and sells horses cheaper than ever. Mamma, Iams is a "hot advertiser," but "he has the goods," and sells horses at his barns only. Buyers get the "middleman's profit at Iams". Iams has

100 --- PERCHERONS AND BELGIANS --- 100



Two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions, all registered and branded. He sells "Toppers" at \$1,000 and \$1,400 (few higher), so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000--SAVED AT IAMS--\$1,000 Ikey, "What a graft" these "stallion" salesmen are working on the honest farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see

Iams yourself. Take no salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His \$1,200 stallions are very much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the language, buys direct from the breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by a half million dollars.

Write for MILLION DOLLAR HORSE CATALOG

Greatest on Earth. References—First National Bank, Omaha, Neb.; Omaha National Bank, Omaha, Neb.; St. Paul State Bank and Citizens' National Bank, St. Paul, Neb.

ST. PAUL, NEBRASKA.

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

Imported Percherons, Shires, French Coachers STALLIONS AND MARES



\$1,000 IS THE PRICE ON STALLIONS FOR NEXT THIRTY DAYS \$1,000

Mares bred to the Champion, CARNOT 66666. Come and see them.

S. J. MILLER, KIRKSVILLE, MISSOURI.

PERCHERON MARES BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

C. G. GOOD, Ogeden, Iowa.



PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. **CHAS. IRVINE, ANKENY, IOWA.**

HORSES.

TRUMANS' SHIRE MARE AUCTION

WE WILL SELL AT PUBLIC AUCTION ON THE
PIONEER STUD FARM, BUSHNELL, ILLINOIS, WEDNESDAY, APRIL 20, 1910
 (RAIN OR SHINE)

40==IMPORTED SHIRE MARES==40

OWING to the many inquiries for imported Shire mares, we have concluded to offer this consignment direct from the **London Shire Horse Show**, and from some of the leading breeders of England. That veteran Shire horse judge, J. H. Truman, has purchased them regardless of cost, being **determined** to present to the **American public** as heretofore the **best possible to procure in England**. Remember, at our sales **you buy them at your own price**. Be sure and arrange to attend this great sale of mares. We have upwards of **100 Shire, Percheron, Belgian and Hackney stallions** for private sale.

Write for catalog and other information. Mention this paper.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

**W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM,
 CEDAR RAPIDS, IOWA.**

ONWARD WILKES FARM

**JEFFERSON CITY, MISSOURI.
 THE HOME OF THE WINNERS**

COMBINATION SALE

**OF HIGH-GRADE SADDLE HORSES, SPEED HORSES,
 BROOD MARES AND A FEW YOUNG JACKS**

April 11 and 12, 1910

Ask for catalog. Consignment solicited.
 Write us your wants. Also what you have to sell.
JAS. HOUGHIN, Proprietor. T. D. ANDERSON, Supt.

Special Announcement of Our Second Annual 30-Day Sale

STALLIONS and MARES

AERICAN-BRED Percheron mares from \$350 to \$600; imported Percheron mares from \$600 to \$700, ages from 2 to 4 years, weighing from 1,700 to 2,000 pounds. All registered in P. S. of America. We have some extra good imported Shire mares with size, bone and quality—International winners—at very low prices. The above mares are guaranteed sound and satisfactory brood mares, most of them being heavy in foal. A choice selection of American-bred Percheron stallions, 2 and 3 years old, from \$500 to \$800. Our imported Percheron, Belgian and Shire stallions are the large, ton, drafty kind, with plenty of bone and quality. All of them will be priced so as to move them quickly. All stallions guaranteed sound and 60 per cent breeders. We are making these extremely low prices for the next thirty days to make room for our new importation of 60 head of Percheron stallions and mares that will land here April 20th. Therefore, if you want a real bargain in a first-class animal of either sex come at once and get your choice. Our motto—honest treatment, square dealings, best terms and best guarantee. Write our Home Banks for reference. Homewood is on the main line of Big Four and I. C. railroads, 23 miles south of Chicago; Suburban trains hourly; Bell phone, Homewood 204.
S. METZ & SONS, Homewood, Ill., or Abilene, Kan.

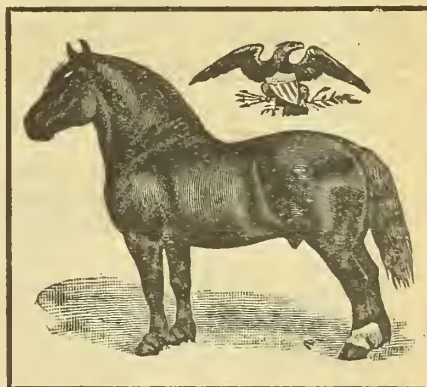
New Importation of Percheron, Shire and Belgian Stallions

EXTRE weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. **PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.**

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

**Percherons,
 Belgians,
 Shires,
 German and French
 Coachers,
 Hackneys.**



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

A. B. HOLBERT, Greeley, Ia.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

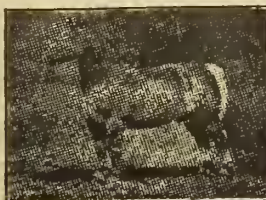
We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. **80 HEAD STALLIONS AND MARES** now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see **OUR Percherons** before buying. Telephone service. Their 1909 importation arrived November 18th. **Ernest L. Humbert & Son, Corning, Ia.**

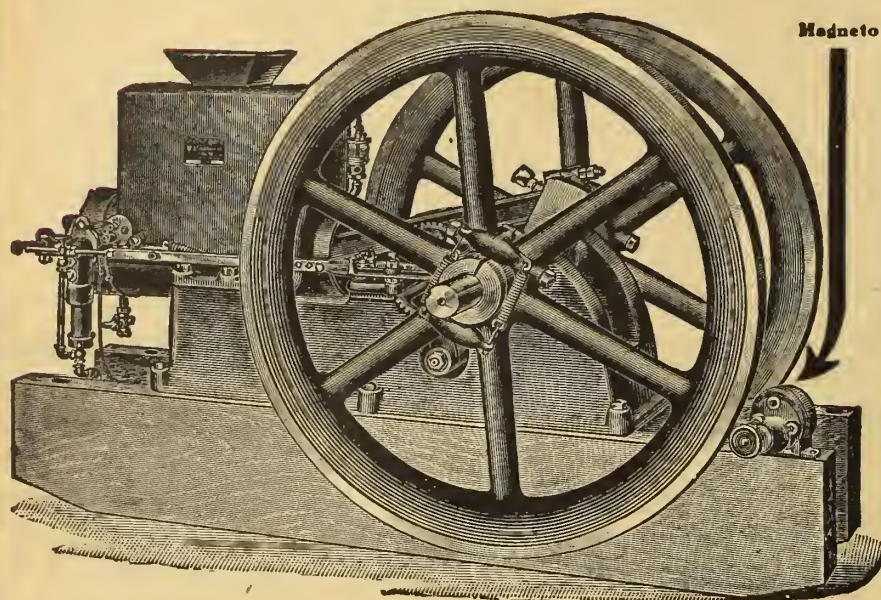


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No More Battery Expense!



Don't buy any out-of-date gasoline engine with battery ignition—no matter what the makers claim for it! Especially do not buy a poorly constructed "cheap" farm engine.

You can have the famous **Simple Simon** Farm Engine equipped with a **Motsinger Ignition Device**—the same thing to a farm engine as a \$125 Magneto is to an automobile. It does away with the old-fashioned batteries—ends all ignition trouble forever—saves your fuel—gives you a white-hot spark all the time—

At the Same Price as the Ordinary Engine.

No more shut downs of your engine when you want it most, because you can't

get a spark. No more sending off to town to get new batteries every few weeks—keeping up an expense drain that amounts to the cost of a new engine in a short time.

The "Simple Simon"

is the first engine furnishing a high-grade mechanical ignition device as part of the regular equipment and without additional cost. Another of the many improvements you get in the Simple Simon is our patented **ROLLER VALVE GEARS**, the first basic patent on mechanical movement granted in ten years. This amazingly simple device is pointed out in the pictures on this page. But you must see it work to realize its value.

Our Roller Valve Gears Cut Out 20 to 35 Parts Used in Ordinary Engines

Instead of the usual complicated arrangement of cut gears and separate cams there are only two plain rollers in contact.

The small roller is on the crank shaft. The large roller is on a rocker arm. Drop a bolt between them and the rollers are simply forced apart to let the obstruction pass. This little accident would wreck an ordinary engine. It never harms the Simple Simon.

We give you a single rod, straight line valve movement.

Notice the extra heavy split-hub flywheels of the Simple Simon. They are twice as heavy as those of many other engines. This means smooth, quiet regular operation.

Notice the hit and miss governor that governs—no waste of fuel on the idle strokes.

See the Simple Simon Automatic Suction Mixer and Starting Cup—no moving parts. Vaporizes naphtha or distillate as well as gasoline.

Our Ironclad Guaranty

We guarantee our engines against defects due to workmanship, material or design and we will replace without charge any defective parts.

The Armstrong-Quam Manufacturing Co.
104 Chestnut St. (ESTABLISHED 1867) Waterloo, Iowa

We also furnish electric lighting plants, wood sawing and pumping outfits and the Red Mill all-metal feed grinders. We are the manufacturers of the famous Waterloo well drilling outfits.

SPECIAL GUARANTY ON ROLLER VALVE GEARS—We guarantee our Patented Roller Valve Gears, during the life of the engine, against breakage from any cause whatever—accidental or otherwise. This guarantee has our factory and a reputation of forty-three years as a successful manufacturing concern behind it.

Ask Your Local Dealer to Show You the Simple Simon

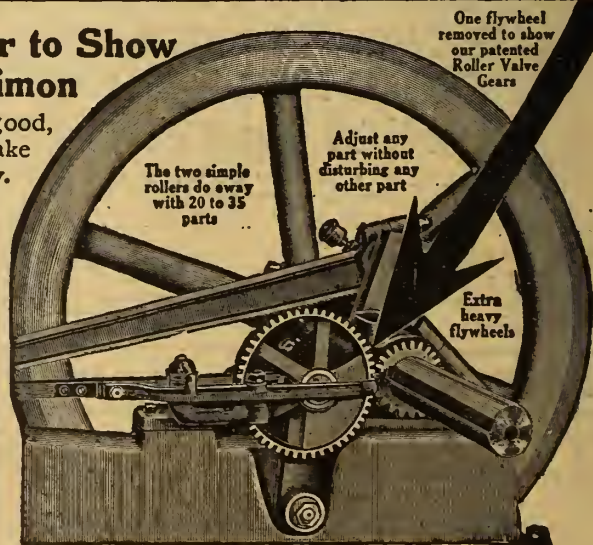
Your engine is an investment of good, hard dollars. You can't afford to take chances on an engine you never saw.

Take the safe way. Go to the dealer you know. Ask him to show you the Simple Simon on his salesroom floor. Insist on the Simple Simon. If he hasn't it, write us and we will see that you are supplied.

We authorize any dealer to give you 30 days' free trial of our engine, and to receive it back and refund your money if you are not fully satisfied.

Send for our New Free Engine Catalog

It tells you all about the Simple Simon Engines—vertical or horizontal—open-jacket, frost proof or circulating tank cooling systems—portable, semi-portable and stationary outfits. Write today and get the most interesting and popular engine book ever printed.



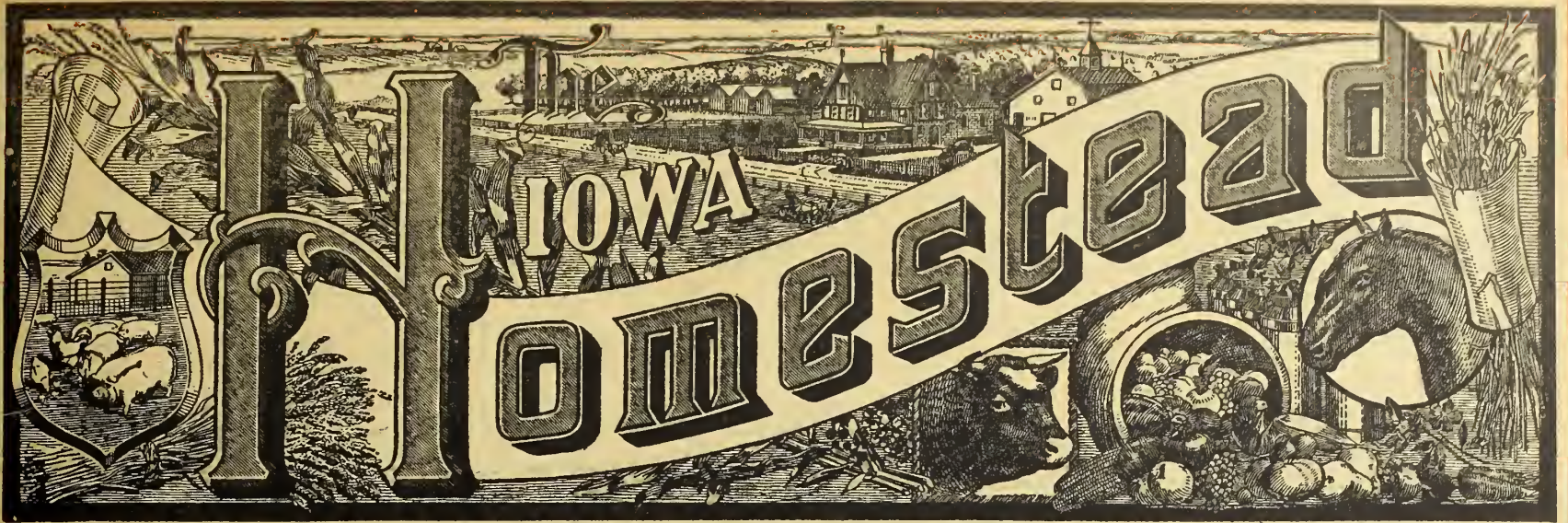
The Armstrong-Quam Manufacturing Co.
104 Chestnut St., Waterloo, Iowa

Gentlemen: Please send me your New Free Engine Catalog.

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P. O. _____

State _____



VOL. LV. NO. 18

DES MOINES, IOWA, MAY 5, 1910

WHOLE NO. 2743



That's a Money Making, Money Saving Proposition for you.

Dubuque, Iowa.

THE WILLIAM GALLOWAY COMPANY OF AMERICA
Authorized Capital, \$3,500,000.00. 105 Galloway Station, Waterloo, Iowa

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MAY 5, 1910.

Why Our Acres Are Not Tilled

I FIND myself in this situation upon reaching my seventieth birthday," said an Iowa farmer recently, "instead of slowing up a little in the work as men naturally expect to when they come to my time of life, I am compelled to work even harder than I ever did before in my life. I have long looked forward to the time when I would have my section of land brought up to that state of cultivation to just suit me, and have my buildings ideally adapted to the purpose for which they were erected and to have no debt incumbrance. My ambition in all these respects has been attained, but though attained, I do not find that satisfaction which I anticipated and it is all because of the farm help situation. To say that men are scarce does not describe the situation, because there are absolutely none available in this locality. I have advertised, I have offered the best of wages and yet, here I am absolutely all alone on a section of land. Of course, I could rent my farm and move to town, but I have no interests there and I want to stay here until the end. Theorists advise farmers to retire on the farm, but I would like to know how you can call it retirement when you are surrounded by so much work. The only thing for me to do is to rent my land and that I propose to do before another twelve months rolls around."

This is a predicament to be sure, and there are tens of thousands of farmers in the central West who find their conditions very similar to those here described. The fact in the case is, our cities and our towns have absorbed the laboring classes and this more than any other factor that can be mentioned, accounts for the increased cost of living—the rise in the price of food products. If we had more farm help we could feed more cattle, we could produce more hogs and we could increase the yield on

every acre of inter-tillage crop because we could give it better cultivation and better attention generally. Furthermore, farmers could even afford to outbid the cities and towns for this labor, but even a rise in wages meets with little response.

What is the remedy? It must be found in changing entirely our system of employing farm labor. In the past it has been the custom for a farmer on a quarter-section to hire one man for six or eight months and this individual lived with the family. In many cases young men of the community "hired out" to their neighbors. They were brought up and trained under the conditions of the locality and consequently they were much more useful men than those employed in these days. The majority of men who are working out today were reared under entirely different conditions from those existing in the central West. Those having the right kind of grit in them have taken up the cheaper lands of the West and Northwest, but in many cases their places have been left entirely vacant.

The first change needed is to do away largely with the employment of "single men." We must provide homes for the farm workers so that they can live under conditions that are as favorable as those found in the towns and cities. We claim that that system will attract just the kind of help that the farm needs and, furthermore, upon examination, we find that farm owners who have built a "second" house are, as a rule, not in the least worried about where their help shall come from.

The gentleman quoted above, who owns the section of land, blundered years ago in not erecting a dwelling house or two for his farm help. If this had been done we venture to say that it would have made retirement on the farm possible; it would have enabled the own-

er to retain his interest in farm affairs; he could have had the satisfaction of spending his last days administering his own affairs, and yet he would be in a position to have the labor performed by others.

It is sometimes pointed out that we must cut up our farms and make them smaller so that the owner can handle his own farm, but that will not be brought about in this generation. Farms instead of getting smaller are getting larger, and as the land in the central West appreciates in value we cannot see how men without a good deal of capital are going to purchase it. Take our word for it that in this generation farms of the corn belt will not grow smaller.

It is not enough to become soured over the labor situation nor does it solve the problem to deplore the fact that hired men are no longer what they used to be. In many localities young men capable of making good help on the farm are no longer obtainable, but as said before, when a home is provided there are always plenty of married men in towns and cities who have previously had farm experience who are only too glad to get away from the populated centers.

Our sympathy goes out to the man who finds himself getting along toward the western horizon of life only to realize that the fertile acres cannot be tilled because of the scarcity of men. Such individuals cannot be expected to take the advice that we have given here, but as the older men drop out and the younger men inherit their property we believe that these suggestions will more and more be acted on in the future. Be it remembered that conditions have changed very greatly even in the last decade; even five years' time has made a great difference and the farmer is the one who has to change his methods to suit the new conditions.

The Farm's The Place

By Constant Reader

THERE has been considerable talk the past winter about the high price of living and the remedy given was that there should be more men on the farm. This brings up the question of men leaving the farm for the city, without income and without work. I am connected with a large plant, employing some 600 men and the past month have had occasion to notice two men who traded their farms for town property and are now working in the plant where I am employed. These men have no special training and the same ability that will earn twenty cents per hour, or \$2 per day, will run a small farm. I asked them their reasons for the change and the main one was that they could not make any money. These men will never earn more than \$2 and their total earnings for the year will be about \$600. They have small families, but they will find that \$600 is a very small sum out of which to pay rent, buy clothes, fuel and food for four people. At the end of the year they will find themselves just where they started, with this difference: On the farm they have a chance to work out their own ideas, while in the shop, what the foreman says goes. If he says black is white that settles it.

The man on the farm can arrange his work so as to have plenty of time for fishing, hunting, calling on neighbors and going to fairs, and still his crops need not suffer. The man in the shop must ask permission to go and then figure up just what it will cost per hour while he is away. And he cannot be gone very many days or his income won't go around. There are 100 chances for pleasure on the farm to one in town.

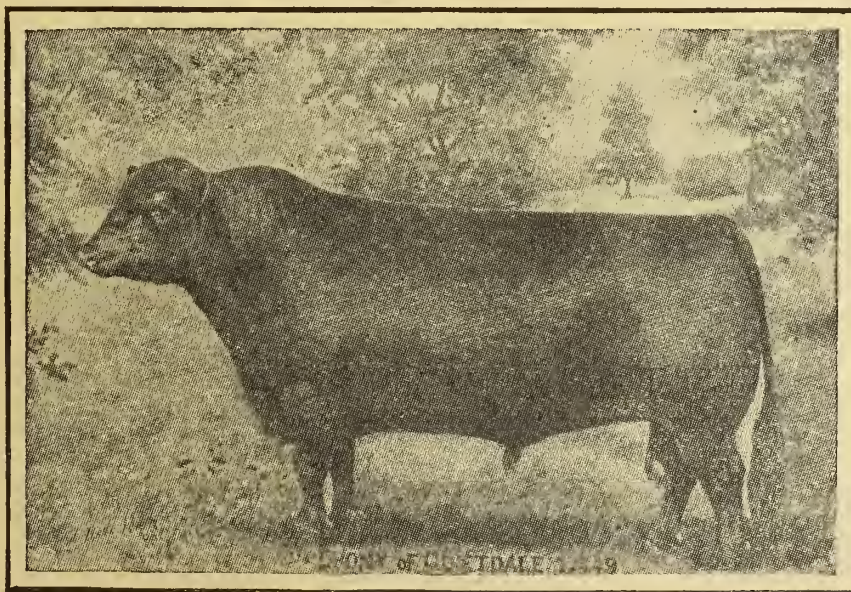
There is a mistaken notion

of town life among a great many country people. The average city man works just as long as the farmer. One of the writer's boyhood chums got a job firing on the railroad and had

to live in Chicago. The rest of us left in the little country town had wonderful notions of the good times our friend was having. When he came home on a visit after an absence of six months we asked him about these things and he laughed at us. His answer was that when he was not working he was asleep; he had not been down in the city proper but once in six months. We had never considered that it takes about the same amount of time to earn a living in town as in the country.

Now as to what can be done on a small farm, the writer has a friend who has thirty-three acres of good land in Illinois. He has sold on an average the past three years \$1,000 worth of milk, raised all the feed for his cows on his own farm, and one year sold \$60 worth of hay. He has received an average of \$1.10 per hundred out of which he pays nine cents per hundred for hauling. In a great many cases where a man has done unusually well the papers will say that he had everything just right, and that the average farmer cannot have the same conditions. This man's cows are kept in a barn which cost probably \$200 twenty years ago. They are just common cows that are bought around at sales and are not fed any fancy feeds, nothing but hay and ground feed which are produced on the place. The man himself would laugh at the idea of being a scientific farmer. These cows are fed and milked regularly, well taken care of and for results, I have never heard of anything that beats it.

My friend has a nice home, lots of fruit, chickens and a big garden, raises his own pork, and his smoked ham is worth going a long way to eat, but he does not



A NOTED ABERDEEN ANGUS HERD BULL.

Ebony of Quietdale, herewith illustrated, stands at the head of the herd of Mr. H. J. Hess, of Waterloo, Iowa, whose public sale will occur on May 31st. Ebony of Quietdale is of particular interest because of the fact that a considerable portion of the sale consignment are of his get. Ebony of Quietdale is, as the picture indicates, a bull of size, quality and substance and a true type of the Angus breed. These qualities are his by right of inheritance, as his pedigree traces to animals which have stood at the top of the more noted lists of good ones of the breed. His sire was Pabno 38977, he by Baltimore of Glendale, a grandson of the noted Guinea. He traces at the same time to Jim Jams and Rosa Bonheur of Turlington, a pair of show cattle which in their day had no equals. His dam was Imp. Ellora 4th of Tullyally, whose pedigree traces to some of the more popular things of the old country. As a breeder, however, he has made a record which supports the promises of his ancestry. His get have been prize winners at state and national shows and have attracted attention because of their splendid merits. The sale will be full of sons and daughters of this great bull. For catalog write to Mr. H. J. Hess, Waterloo, Iowa.

(Concluded on page 15.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCKMAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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LABOR SAVING ON THE FARM.

While the average city person is apt to look on the automobile as the greatest evidence that the farmer is enjoying comforts and conveniences and even luxuries which were unknown to him a few years ago, the fact remains that possessing a motor car is not nearly such good proof of the farmer's prosperity and material advancement as is the possessing of a score or more labor-saving devices and appliances which make farm work in its multitudinous details much easier today than ever before. A farmer's wife who went through the homesteading era is quoted by a magazine writer as saying:

For years I washed at a tub as my grandmother did, and my back is yet bent with the exertion of those days. Now the washing is done by a machine run by an engine at the barn. I churned in an old wooden churn—how many hot mornings I lifted that old dasher! Now the separator takes the butter fat from the milk before it comes to the house. What butter making we do is in a barrel churn, turned by the same engine. I ironed with the old-fashioned iron heated on a scorching stove that made the kitchen like an oven. Now I have an ingenious gas-heated flatiron and my ironing room is in the screened back porch, where there is breeze and comfort. Then we went to town once a week in a lumber wagon; now we go almost every evening if it is pleasant, and cover the distance, ten miles, in half an hour in a motor car.

When the housewife does the family sewing on a machine operated by electricity; when the family gathers around the reading table at night under the electric globes and when a hundred and one daily tasks and chores are lightened by electricity, the lot of the farmer is made infinitely better than it used to be and the city person can no longer make invidious comparisons.

Most important of all, this introduction of labor-saving machines and devices is playing an important part in keeping the boy on the farm. The magazine writer already referred to makes a brief contrast between the today and the yesterday of farming, saying:

If you lived on a farm as a boy, you probably worked at the business end of a straw carrier during thrashing time. You remember the long hours in dust and straw that nearly suffocated and drowned you. Now there is nothing of the kind. The straw is stacked by the directions of a man who manipulates a long tube through which a strong current of air forces the straw—"wind stacker" they call it. You also helped carry bushel measures of grain from the separator to the wagons, marking the record as you toiled. Now the wheat is weighed and measured as it runs through a pipe from the machine and pours in a ruddy stream into the wagon. It takes less help to do the work than ever before.

The boy who formerly spent three hours in the morning and three more in the evening milking cows—no pleasant job in summertime, and not much better in winter—now with a milking machine saves two-thirds of the time and is able to enjoy a little leisure. He can go to town or visit with the neighboring boys. He feels that he is a business man and not a toiler without hope of relief.

"I knew I could make money with a dairy herd," one farmer expressed it, "but I could not put my boys at the drudgery. It meant that they would not have time even to go to church. Now they can enjoy a little of life and I think they will stay with me."

The automobile is not a sign that the farmer is enjoying luxuries which

he cannot afford. It is simply a sign that he has reached that stage where he realizes that it costs less to let gasoline and electricity do his work than to wear out horses and humans; that it is money in his pockets in the long run to spend money for labor-saving and time-saving devices. The city person who thinks that the farmer is prosperous and has an easier life simply because he owns and operates an automobile should go out to the farm and see the score or more appliances which are typified by the automobile in that they save time and energy and money and make farming more pleasant and profitable.

SAVING THE FOAL.

To allow a mare to foal in an ordinary stall, or, for that matter, in an unprepared box stall, is to invite navel and joint trouble and other disorders which generally result in very serious losses after entailing no small amount of labor and annoyance. Dr. A. S. Alexander, of the Wisconsin College of Agriculture, and recognized the

pared box stall and it should be perfectly ventilated and as sunny as possible.

Where but one box stall is available, clean it out, burn the afterbirth and soiled bedding, use a disinfecting solution freely on the floor and put in plenty of fresh, dry, clean shavings as soon as possible after the birth of the foal. If the mare foals on grass, treat the foal as if it had been born in the stable. Navel infection is less liable to occur on grass, but this is possible and preventive treatment, therefore, is necessary, no matter where the foal is dropped.

These precautionary measures are comparatively inexpensive and do not call for the expenditure of very much labor. Even if they did require considerable additional work the difference in results would surely warrant its performance. It takes but very little to determine success or failure in the matter of raising foals.

Dr. Alexander has also given some excellent advice upon the treatment of the foal at birth. He says:

Attend to the navel cord (umbilicus) as soon as the nose of the foal has been cleared of afterbirth. If possible, avoid tying the navel cord. It is best for it to break off naturally. If it fails to break and the mare is lying

a day until the navel is perfectly healed. Remove sloughing portions of the cord each morning, so far as possible, to allow the solution to wet all raw parts of the cord.

Practically all of the remedies recommended by Dr. Alexander are fairly common and may be secured at any drug store.

MOTHERS' DAY.

Next Sunday is Mothers' Day. A flower is to be worn in the buttonhole or on the waist in honor or in memory of the patient, untiring woman who brought us into the world, who gave her time and her care in bringing us safely through the shoals of juvenile troubles and past the reef of childish ailments, who found no work too hard, no hours too long, no service too arduous to advance our interests to the end that we grow up man or woman, do our share of the world's work and so continue the cycle of existence.

In several states of the grain belt proclamations have been issued by the governors calling attention to this day. In other states official notification has been made, of which the following by Governor Carroll, of Iowa, is typical:

I desire to call the attention of the people of our commonwealth to the fact that the second Sunday in May is observed in many parts of our country as Mothers' Day.

This is a custom which has recently grown up and a mere suggestion as to the appropriateness of the occasion is all that is needed to establish it in the hearts and minds of our people. I have been asked to issue a proclamation with reference to this day, but have preferred rather to give it my personal and official sanction in the manner herein set forth rather than to issue a formal proclamation. The day has been established not by law, but by custom, largely by church observance.

In memory of the mothers of our country I earnestly recommend that the ministers of our state devote one service of the day to the memory of the mothers, whether deceased or yet living, and that as a token of remembrance every individual of our state, who can do so, wear a white carnation. Let it be a regular flower day in memory of mothers, so that those who may not be able to wear a carnation may wear a flower of some other kind, preferably a white flower. It is patriotic and inspiring to observe any of our national holidays whether in memory of the birth of our nation or its great men and fallen heroes, but no tribute is higher and nobler than a tribute paid to the mothers of our nation. Let us all, therefore, join in the observance of Sunday, May 8, 1910, as Mothers' Day.

The suggestions of Governor Carroll should be observed to the end that Mother may have her dues at last. And yet how ironical and even pitiful it is that Mother has only one day in all the year, and has that only by the suggestion of a few. Who is better entitled to the words of love, the tears of sympathy, the commendation of look and deed all the year around than Mother? Why not decide on this Mothers' Day to make the celebration one that shall extend not simply until midnight of Sunday, but shall extend throughout all the year, without regard to days or weeks or months, without thought of seasons or the coming and going of men and women? Why should not Mothers' Day, like Tennyson's brook, go on forever? Is it not a shame that we have become so engrossed with work, with the problems of the farm and of everyday existence, that we give only one day to her who gave us her all even unto her life: Mother?

May Creed

I believe in the wild flowers---in the violets
and buttercups and Sweet Williams---in
the fragrant lilacs where the buzzing
bumblebees fill to intoxication on the sweet
nectar. I believe in the blossoming orchards
as Nature's promise. I believe in the spray
pump. I believe in treating potatoes against
the day of a scabby harvest. I believe in the
fresh pastures, in the full-leaved woodland, in
the hum of the myriad insects and in the morn-
ing song of the newly-wedded birds. I believe
in the "her-check, her-check" of the corn planter
and in straight driving. I believe in harrowing
fields early, late and often---that cultivation
afterward can never make amends for a poor
start. I believe in joy and music, in growth
and gladness. I believe in promise. : : :

country over as an eminent veterinary authority, considers an absolutely clean foaling place not only advisable, but necessary. In a circular of information recently prepared by him on the subject of "The Care of New Born Foals," he advises that the foaling stall be prepared in the following manner:

Remove and burn all loose litter and manure. Cleanse and scrape the floor; then saturate it with a hot one-fiftieth solution of coal-tar disinfectant, or a solution of four ounces of sulphate of copper (bluestone) to one gallon of hot water. Scrub and cleanse the walls with a similar solution of coal-tar disinfectant, or a 1-1,000 solution of corrosive sublimate. Cleanse the ceiling in the same way, then apply to walls and ceiling fresh-made lime whitewash, to each gallon of which has been added one-third of a pound of chloride of lime. Cover the floor with fresh, dry planing mill shavings in preference to any other bedding material. Remove manure as soon as it is dropped.

When the foal is born and has been cared for and the afterbirth of the mare has come away, remove the mare and foal to the second box stall, prepared as was the first. Then clean out, disinfect and whitewash the stall just used and put in fresh, clean, dry shavings in readiness for the reception of the next mare. The mare must always occupy a clean, specially-pre-

pared box stall and it should be perfectly ventilated and as sunny as possible.

If found necessary to tie the cord, use a clean, disinfected string. A dirty string may cause infection. Soak the string in a 5 per cent solution of lysol or carbolic acid, or a 1-500 solution of corrosive sublimate (bichloride of mercury). Tie the cord one inch or a little more from the belly; then sever the cord with a clean knife. An emasculator or ecraseur (castrating instruments) may be used to sever the cord in place of tying it and then cutting through below the knot.

Saturate the stump of the navel cord immediately, whether tied or not, with the following disinfectant: Powdered corrosive sublimate, two drams; boiling water, one pint. When it has cooled, color the solution with two drams of tincture of iron, label the bottle "poison" and keep it out of the way of children. Repeat the application twice a day until the cord shrivels up, drops off and no raw spot remains. To keep the solution from blistering the foal's belly, smear carbolized vaseline or unsalted lard around the navel before making the first application.

A good way to use the solution is to put some of it in a shallow, wide-necked bottle, then hold the bottle against the foal's belly with the navel stump immersed so that it will be completely covered by the fluid. If the navel cord has been tied remove the string as soon as possible, squeeze out the blood clot and instantly soak the navel stump with the corrosive sublimate solution. Use the solution twice

The Appetite

Calls for more

Post Toasties

Let a saucer of this delightful food served with cream tell why.

"The Memory Lingers"

Pkgs. 10c. and 15c.

Postum Cereal Co., Ltd.,
Battle Creek, Mich.

MARK TWAIN ON FARMING.

One of the funniest things which the late Mark Twain ever wrote was his article entitled "How I Edited an Agricultural Paper." For sheer whimsical imagination the article is not surpassed by anything which Twain wrote and that is saying a great deal, for the depths of his wit and humor were never completely sounded. The article is supposed to deal with his experiences in supplanting the regular editor of an agricultural weekly. The editor is supposed to have started to Europe on a vacation trip and Mark, being given complete charge of the plant, proceeded to write farm misinformation exactly as it came to him on the spur of the moment. The sensation of the subscribers when they picked up their favorite weekly farm paper and read such paragraphs as the following may be imagined better than expressed:

Turnips should never be pulled; it injures them. It is much better to send a boy up and let him shake the tree.

The guano is a fine bird, but great care is necessary in rearing it. It should not be imported earlier than June or later than September. In the winter it should be kept in a warm place, where it can hatch out its young.

It is evident that we are to have a backward season for grain. Therefore it will be well for the farmer to begin setting out his cornstalks and planting his buckwheat cakes in July instead of August.

Concerning the pumpkin.—This berry is a favorite with the natives of the interior of New England, who prefer it to the gooseberry for the making of fruit cake, and who likewise give it the preference over the raspberry for feeding cows, as being more filling and fully as satisfying. The pumpkin is the only esculent of the orange family that will thrive in the North, except the gourd and one or two varieties of the squash. But the custom of planting it in the front yard with the shrubbery is fast going out of vogue, for it is now generally conceded that the pumpkin as a shade tree is a failure.

Now, as the warm weather approaches, and the ganders begin to spawn—

Mark goes on to tell that after the paper had been published the awe-inspired natives followed him at some distance paying him what he supposed to be homage for his wonderful journalistic ability. It was not until later that he discovered they believed he was insane and looked on him as a sort of escaped and wandering circus freak. The paper had not much more than reached the subscribers before the real editor made a sudden and unexpected return, and this is the way Mark says the real editor addressed him:

This is a sad business—a very sad business. There is the mutilated bottle broken, and six panes of glass, and a spittoon and two candlesticks. But that is not the worst. The reputation of the paper is injured—and permanently, I fear. True, there never was such a call for the paper before, and it never sold such a large edition or soared to such celebrity—but does one want to be famous for lunacy and prosper upon the infirmities of his mind? My friend, as I am an honest man, the street out here is full of people, and others are roosting on the fences, waiting to get a glimpse of you, because they think you are crazy. And well they might, after reading your editorials. They are a disgrace to journalism. Why, what put it into your head that you could edit a paper of this nature? You do not seem to know the first rudiments of agriculture. You speak of a furrow and a harrow as being the same thing; you talk of the molting season for cows, and you recommend the domestication of the polecat on account of its playfulness and its excellence as a ratter. Your remark that clams will lie quiet if music be played to them was superfluous—entirely superfluous. Nothing disturbs clams. Clams always lie quiet. Clams care nothing whatever about music. Ah, heavens and earth, friend! if you had made the acquiring of ignorance the study of your life you could not have graduated with higher honor than you could today. I never saw anything like it. Your observation that the horse chestnut as an article of commerce is steadily gaining in favor is simply calculated to destroy this journal. I want you to throw up your situation and go. I want no more holiday—I could not enjoy it if I had it. Certainly not with you in my chair. I would always stand in dread of what you might be going to recommend next. It makes me lose all patience every time I think of your discussing oyster beds under the head of "Landscape Gardening." I want you to go. Nothing on earth could persuade me to take another holiday. Oh! why didn't you tell me you didn't know anything about agriculture?

Mark was forced to admit that there might be some grounds for the editor's complaint, but he maintained he could have run the circulation up to 20,000 inside of two weeks if he had

kept on at the progress made in the first day, nor was he depending simply on quantity of circulation, for that he also had quality in mind was evident when he remarked to the editor: "And I have given you the best class of readers that ever an agricultural paper had—not a farmer in it nor a solitary individual who could tell a watermelon tree from a peach vine to save his life."

Twain did not touch any subject which he did not enliven by his remarkable genius for the unexpected and for the harmless quip. His best humor was at his own expense, for he never went so far as to make his wit harm or injure the feelings of any others. In the last analysis this is the real test of genuine wit and humor, and judged by all standards, Twain must go down in history as the greatest humorist which America has yet produced.

DISHONESTY IN THE HOG BUSINESS.

Since Theodore Roosevelt first took up the big stick the number of men who are getting a square deal has been vastly increased. It remained for Roosevelt to popularize honesty and fair dealing. Prior to the time when he came on the scene "a square deal" was only a pleasant sounding phrase, used about election time and forgotten immediately thereafter. But Roosevelt has old-fashioned notions of honor and honesty. He believes that rich and poor, white and black, high and low, in fact all sorts and conditions of people are entitled to a square deal in fact as well as in name. Under the Roosevelt idea the buyer has as many rights as the seller; the poor man must be protected by the law the same as the rich man; the humblest private in the rear ranks is entitled to the same consideration as the mightiest general ablaze with gold lace and epaulettes. And thanks to Roosevelt's immense energy and magnetism the square deal idea has been popularized until it is rapidly becoming the rule of conduct in all phases of life: Political, social and commercial.

In spite of this popularizing of honesty and fair dealing a discordant note is occasionally struck, and it comes from a quarter least expected. A case in point is that of a breeder of pure-bred stock, who with malice aforethought attempts to foist a counterfeit onto an unsuspecting buyer. The words of the purchaser in this case depict the exact situation accurately when he says:

I want to ask your advice about a purchase that I made recently as the result of reading an advertisement in an agricultural paper. I appealed to the owner of the paper in which I saw the advertisement, but can get no satisfaction, so I come to you for advice. I was in need of a Duroc Jersey male hog, so I corresponded with the gentleman in question, giving in my first letter a detailed description of the type of hog that I desired to purchase. I stated that I wanted a particularly growthy individual because I was anxious to impart a little more size to my herd. I said I wanted a hog with lots of stretch, one that stood up well from the ground, and I was especially anxious that he should have good, heavy bone. My correspondent answered that he could fit me out to the very letter. He said that there was no need of him going into detail in describing his hog, because he knew that he had one that would fill the bill. I immediately sent him a draft and waited with full assurance that my ideal was to be at least approached in the hog that he would send.

Now what was the result? He shipped to me a hog that was within a few days of being nine months old and he just weighed 100 pounds. He was of fine bone; he was not what you would call a well-formed hog and, of course, he was absolutely so small that under no circumstances could I use him. I called in two or three of my neighbors and they were just as much disappointed with the hog as I was. I then wrote the breeder of this hog, expressing to him my disappointment and informing him that I could not use him under any circumstances. I have written him several times, but can get no reply and, as I said before, I took the matter up with the editor of the paper in which the advertisement appeared. I still have the hog, but I have never used him; indeed, I had to take three days off when field work was rushing, in order to find the type of a hog that I wanted. Possibly I made a mistake that I did not return the hog at once, but, of course, he had my money and if I returned the hog I would be out both, though I wish I had done that now, because the matter has worried me more than the loss of the money. I wish you would discuss this matter in your paper, not only for my benefit, but for the benefit of

others who might have occasion to transact business in this way and encounter a scalawag as I have done.

No mention is made in this case as to whether anything was said about the weight of this hog by the breeder, and possibly that is the weak link in the chain. There is no question however but it is a case of willful dishonesty, and any man who would impose on a customer in this way ought to be brought to time. The difficulty about the whole situation is that the average man does not have the time to fight it out in the courts, nor is he inclined to face the costs of a suit when originally a comparatively small amount is involved. There is a way, however, for meting out just punishment to the man who is so contemptible in his dealings as to sell a "runt" hog when he absolutely knows that his customer expects to get an individual that is well grown for his age and one possessing a reasonable degree of quality to match his weight. Any man who will send to a customer a nine-months-old male hog that weighs 100 pounds, without first stating the facts in the case, is rendering himself liable to fall into the clutches of Uncle Sam, because it is a flagrant case of using the United States mails to transact a fraudulent business.

We are pleased indeed to say that cases of this kind in recent times are very rare, because as said before we are now living in a "square deal" era and any man who will conduct business in this way is woefully short-sighted.

Had we been in the place of this purchaser and if we had kept copies of all correspondence, we should have at once informed the postoffice authorities, doing this through the local postmaster. We would have taken pains to weigh the pig and to have a few neighbors pass on him so that later on they would be in a position to testify as to the facts in the case. Little or no expense would be involved in handling the matter in this way, because it is the duty of the United States postoffice department not only to insist on, but actually to enforce a square deal between those persons who use the mails as a medium through which to transact business. Of course, all this should have been done just as soon as it was found that the seller did not propose to make any settlement.

The agricultural paper which has been infringed upon in accepting the advertisement of a rogue like this has but one duty in the matter, namely, that of refusing to carry the business of such a scalawag. The facts in the case are so plain in this instance that

there need not be any doubt as to the attempted dishonesty, and to be dropped from the advertising columns of a reputable paper might bring the dishonest man to his senses sufficiently so that he would get into business on the right basis, or it might be sufficient to so affect his reputation as to make it unprofitable for him to continue in the swine business even on an honest basis. The "square deal" must prevail.

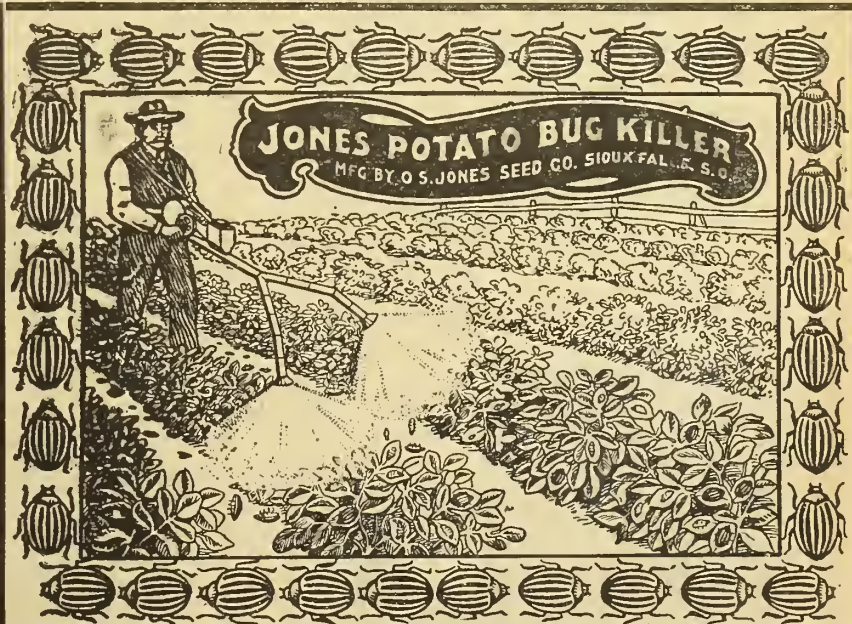
THE DIGNITY OF LABOR.

Colonel Roosevelt, as the ex-president is commonly called, hits the nail squarely on the head when he says:

We have been fond, as a nation, of speaking of the dignity of labor, meaning thereby manual labor. Personally, I don't think that we begin to understand what a high place manual labor should take; and it never can take this high place unless it offers scope for the best type of man. We have tended to regard education as a matter of the head only, and the result is that a great many of our people, themselves the sons of men who worked with their hands, seem to think that they rise in the world if they get into a position where they do no hard, manual work whatever; where their hands will grow soft and their working clothes will be kept clean. Such a conception is both false and mischievous. There are, of course, kinds of labor where the work must be purely mental, and there are other kinds of labor where, under existing conditions, very little demand, indeed, is made upon the mind, though I am glad to say that I think the proportion of men engaged in this kind of work is diminishing. But in any healthy community, in any community with the great solid qualities which alone make a really great nation, the bulk of the people should do work which makes demands upon both the body and the mind. Progress cannot permanently consist in the abandonment of physical labor, but in the development of physical labor, so that it shall represent more and more the work of the trained mind and the trained body.

Presumably, when making this statement, Mr. Roosevelt had the occupation of farming in mind. He, above all of the nation's executives, has been interested in American farming and its very best development. His country life commission, while it was powerless to effect any improvement, was nevertheless constituted for the one purpose of suggesting some means of making farm life more profitable and more enjoyable. He has always realized that labor of any respectable sort is dignified and wholesome. His plea has been and will be for greater intelligence in labor.

The difference between slop and swill for hog feed is mainly one of quality. Water polluted with unhealthy refuse is merely swill, but slop is a mixture of good feeds and good fluids free from putridity.





WE have inquiries every season for something besides Paris Green to use on potato vines to kill the dreaded potato bug. Something that is not so hard to put on. Something that will stay on. Something that will kill 'em. We have it. Our own preparation. Similar to our Cabbage Worm Killer; only it is poison. We have in years past tried every known bug poison, but never found one that the rains would not wash off. By experimenting with different mixtures we are now able to put up a preparation that when once put on the vines, it is there to stay. One application is all that will be necessary any ordinary season. By using our preparation, which is applied by the dry method, you will save time and money comparing it with anything heretofore put on the market. 50 gallons of water is generally used for three acres of potatoes. By the dry method, 3 to 5 lbs. of our Bug Killer is all that is required. Thus a man can start out with 30 to 40 lbs. of dry poison for a whole day's work, and save the carrying of about 10 barrels of water. This is quite an item, and considering the fact that our Poison sticks throughout the entire season, you can readily see what you would save. Try it, and you will have us to thank for starting you right in the Bug Killing business. Can furnish you a machine to apply this poison, which will cover one to four rows at a time.

Price per lb., postpaid, 45c.

25-lb. Pail, by express or freight, at your expense, \$3.50.

O. S. JONES SEED CO., SIOUX FALLS, S. D.

REFURNISHING FARM HOUSES

 The New System of Knock-down Furniture, Sold Direct from the Factory, Makes it Possible to Refurnish the Home at Comparatively Little Outlay and a Small Amount of Work 

THE farm home improvement movement which started with the remodeling of the old farm house and the installation of modern heating, lighting and water systems has spread until it now includes the refurnishing of the interior of the house. Thanks to a new system, this can be done at moderate cost. The outlay needed to replace practically all the furniture which has done duty for so many years with new and up-to-date furniture is not nearly so large as that which is necessary to install either a gasoline or an acetylene gas lighting system, a water-under-pressure system or a furnace heating system.

While the Kansas housewife who reported to the assessor that her household furniture was worth only \$25 belongs to a class which is fortunately rapidly growing smaller in number, it is undoubtedly true that in thousands of farm homes but little or no attention has been paid for many years to the interior furnishings. The Kansas farm wife was all too frank and truthful in making an itemized list of the furniture which had sufficed for so many years. She said:

"My cook stove was purchased at a sale several years ago for \$7. I would now sell it for \$5. My kitchen cabinet consists of a table made by my 'better half' from boards twelve inches wide and 1x4s without the use of a plane. Dining table was a cheap table twenty-one years ago, many pieces have fallen out of it—it has been mended some; perhaps it is still cheap at \$1. Kitchen chairs are five in number, twenty-one years old. I will sell for ten cents apiece. Heating stove cost \$4.50 about seven years ago. I boast of two center tables, construction the same as the above mentioned kitchen cabinet; these serve as an extension table. One evening each week, we accommodate our guests who meet here for Bible study, by simply resting the ends of two long boards on each center table. Carpet is made of rags which I sewed; curtains cost ninety-eight cents one year ago, four new chairs (the back off one), and two twenty-one-year-old rockers are also here. Bookcase and writing desk consist of a ten-cent shoe box on end. The wardrobe was once a twenty-cent dry goods box; the bureau being a trifle heavier, cost forty cents. Washstand, commode and dresser, combined, were once another ten-cent shoe box. I have one wooden bedstead, value now perhaps fifty cents. Two iron bedsteads—when new, cost about \$2 each. Mattresses are of twelve and one-half-cent ticking, filled with straw from which \$1.05 wheat was thrashed. Springs grew in the form of a tree, 1x4 inches by four and one-half feet long."

It is to the everlasting credit of the grain belt that such houses as the one in which this lot of furniture is contained are few, yet if the true story were told there are thousands of women who are putting up with inconveniences and with obsolete furniture who might at a small outlay be as comfortably equipped as practically any city housewife. In this refurnishing, the new system of knock-down furniture has already come to play an important part.

It is now possible to secure from at least a half dozen large factories in the country furniture of the latest type and most approved finish which is made as carefully as the most expensive furniture bought from the regular furniture houses and which is shipped out in what is technically known as "knock-down" crates. This furniture can be bought for from one-third to one-half what duplicates cost in the ordinary retail store. It in-



IT DOES NOT TAKE ANY MECHANICAL KNACK TO PUT TOGETHER AS HANDSOME A TABLE AS THIS ONE.

volves a few hours' work in putting together, staining and waxing, but the pleasure there is in doing the work offsets the amount of time involved.

While there are many mechanical geniuses on the farm as well as in the city who can make their own furniture out of the ordinary pine or oak boards, yet the great majority of people do not have this mechanical knack. It requires no mechanical genius, however, to put together this knock-down furniture, which comes in separate sections. For instance, a library table or a dining-room table comes with the pedestal or the base made into one piece of several boards joined together firmly, while the sides and ends and tops of the table are separate boards which the purchaser must fit together. Chairs are shipped out with the rockers and sides attached into one piece so that all that is necessary for the purchaser to do is to set up the two rockers and sides parallel and put the cross-bars between them, dropping in the cushions or the seat boards, and with the aid of glue and possibly a nail here and there making one firm, solid piece. All manner of household furniture is made by these factories and sent out in knock-down crates; tables, chairs, desks, day-abouts, stools, hat racks, sideboards, buffets, beds, dressers, chiffoniers, bookcases, in fact, everything needed to furnish a home complete may be purchased in this knock-down manner and put together with the aid of a hammer and a pot of glue. Any number of young couples, starting out in life, have found this system an easy and economical way of furnishing their first home, while older people have been only too glad to discard the old and worn-out furniture and replace it with this furniture so cheaply purchased and so easily made ready.

After the furniture is put together it is necessary to stain it and give it a finishing coat, either of wax or varnish, wax being more popular at present. This is in some respects the most diffi-

cult part of the work, as the stain must be made to suit the individual tastes and put on evenly so as to give it a finished appearance. The wax is easily applied, but in the majority of cases in the mission furniture, rewaxing is found necessary every few weeks. The housewife desirous of the best effects, however, is, as a rule, willing to devote this amount of time and energy to keeping the proper luster on the furniture.

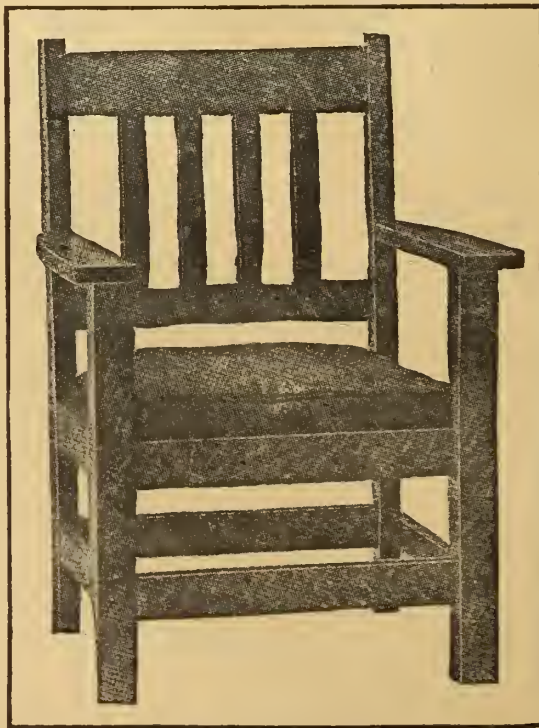
A young couple who found it necessary to spend \$500 to furnish the six-room house in which they started housekeeping a few years ago found it possible to replace practically all of this furniture with the latest style mission furniture, which they purchased in knock-down style and put together themselves, for only \$150. The work was done by the young couple in the evenings after their regular employment was over and the pleasure and fun in fitting the pieces together and the sense of ownership and mastery of details more than offset the time and the labor, leaving a net saving of \$350 to add to their bank account. This experience has been duplicated scores of times in the grain belt within the past few months.

There is no movement under way at present which deserves greater commendation than the movement to make modern, sanitary and attractive the farm home. The old building which sufficed for so many years has either been torn down and replaced by a new and up-to-date structure or it has been modernized by installing the conveniences which add so much to life in the city, but the new or the remodeled farm house is not complete so long as it retains the old, scarred and often decrepit furniture which has done service for more than a quarter of a century. The interior furnishings are every bit as important as the exterior appearance, and when these furnishings can be secured at such a reasonable outlay, there is little or no excuse for the housewife being compelled to put up with the old furniture or be mortified by the knowledge that her own home is not so attractive or so well equipped as that of her neighbor. The knock-down furniture promises to be the solution of the situation and the means of making many a woman and many a young person more proud of the home, which has simply been a habitation heretofore.

In order to make the proposition still more attractive, some of the furniture manufacturers have inaugurated the policy of sending furniture for inspection requiring only a small payment down, and allowing the prospective purchaser to settle the account after he has satisfied himself that the furniture was what was advertised and what he needs for his own home. In practically all cases the purchaser pays the freight in addition to the cost of the furniture, but freight rates for knock-down furniture are low. An order of a half-dozen chairs, a table, a buffet and a desk can be shipped approximately 500 miles for \$5 to \$7. The freight, of course, depends altogether on whether it is a direct haul or whether the railroad company has to deliver it to some other carrier before it reaches its final destination. The catalogs of the knock-down furniture houses contain a freight rate and each piece of furniture is listed as to its weight, so that the purchaser knows beforehand approximately what his carrier charges will be. In every way possible the prospective purchaser has his rights and interests safeguarded so that there are but small chances of any advantage being taken of him. Thousands of people in the grain belt have already found the system a most satisfactory one for refurnishing their homes and adding those modernized touches which make the place attractive and give an individuality.



COMFORT FOR OLD AND YOUNG AT A SMALL OUTLAY AND A LITTLE WORK.



THIS CHAIR CAME IN SIX PIECES AND WAS EASILY PUT TOGETHER.



MANY A DINING ROOM HAS BEEN BRIGHTENED BY SUCH A SIDEBOARD, EASILY PUT TOGETHER.

WHY not follow the successful experience of thousands of others and sell your farm for a good price—or exchange it or buy just the land you want just where you want it by sending a little classified ad to the Chicago Tribune?

If you want to sell—why wait?

This is easy to do.

Your advertisement costs you only a few dollars. It can be half an inch or an inch, or more, just as you wish. See rates at the right here explained very simply. If your ad sells what you offer before it has run the full number of days that you ask us to run it, we will cancel the balance when you notify us—and refund the difference in rates.

You are guaranteed safe in dealing with us. We do exactly as we say we will. All farm paper publishers, or banks or commercial agencies can tell the responsibility of

How to Do This

\$7.35 for 7 Lines 7 Times or **\$14.70** for 14 Lines 7 Times **Should Do It**

Be sure to mail with your ad the amount to run it one week including 6 times in The Chicago Daily Tribune and 1 time in The Chicago Sunday Tribune. That will get the attention of all of the readers of this department. Send personal check—post office or express order or draft for the right amount figured at \$1.05 multiplied by the number of lines that your ad will make with 7 average words in each line.

—“The World’s Greatest Classified Selling Market”—for Farmers

Besides the fact that the classified pages of The Chicago Daily and Sunday Tribune are known to carry more "For Sale or Wanted" advertisements of Farm Lands than any other paper, the hundreds of thousands of readers of this paper, both in the cities and country, all through every week have become most intensely interested in all land and farming propositions on account of the

This great exposition, held in the enormous Collseum Building in Chicago last November (and another bigger

FOR SALE—40 A. FARM, CLAY LOAM, 12 cleared, 10 meadow, fenced, new 6 room house, cellar, basement, barn painted, team mares, 2 colts, 1 cow, chickens, wagon, buggy, seed, farm tools, main road near town, church, school; must go quick; price \$1,350, half cash. S. L. BROOKS, Grand Rapids, Wisconsin.

This Ad Cost Only \$7.35 for 7 Days

The Chicago Tribune readers have become the most numerous of farm and farm land buyers of any readers of any newspaper—proved by this great attendance and their purchases through the classified “for sale and want advertisements” of this great newspaper. We run regular departments on this subject for our readers and advertisers in the country and city.

We mean by this that the interest of thousands of city people has turned toward the country. They are anxious to find country places—farm lands—farms with crops started, with buildings and stock and machinery ready to move to—anywhere outside the cities.

And our readers are of the best class, both in the country and cities. They've got the cash—the money to buy and pay for what interests them. Thousands also are buying for investment. Or ready to trade city or country property for what you may have to offer, or want to know where you are, so they can write you and accept your proposition or make you a bid.

The Chicago Tribune's Classified Farm Land Departments include the ads of many country town real estate dealers—both "For Sale" and "Wanted."

But even if you've already placed your farm for sale

**No Experience Is Necessary—Just Write in a Few Words
Your Price, or Not, as You Wish—Read Above and
Want to Sell or Buy. We Will Help You. Address**

"America's Great 'GET TOGETHER' Ground on All Farm Land Propositions"
Farm Land Classified Department D, Chicago, Illinois

Dear Sirs:—Enclosed find \$..... (Fill in amount)
 In (say whether draft, check or express or
 P. O. money) at your special rate of \$1.05 per page
 for, for which please publish my classified ad here with
 which makes (say number of words) words, for
 six week days and one time Sunday under the proper head-
 ing in your classified ad department. It is understood that
 you will mail me free copies of each issue of your paper con-
 taining my ad and acknowledge receipt of this ad and my
 money promptly.

Name.. ..

P. O. Address.....

Town.....State.....

Following are a few of the hundreds of different classifications:

For Sale or Wanted Real Estate:
 Farms—Farm Lands—Country—
 Acres—Fruit Lands—Ranches—
 Coal and Timber Lands—
 Real Estate Everywhere to Exchange—
 Land Loans—Free Lands, Excursions, etc.
 Machinery and Tools—Horses and Carriages—Stock—
 Building Materials—Boats—Bicycles and Motorcycles
 Automobiles, etc., etc.

(Note:—You can use this coupon or a sheet of paper, as you please, to send your ad to us on.)

[illegible]

(Note:—Please write your name and address carefully and also each word in your ad. We will be most particular and careful to print it just as you send it to us.)

CUT OUT AND MAIL US THIS COUPON

-Note the simple and easy-to-follow explanation of how to sell your farm on this page.

FARM FURROWS

Turned By a Practical Farmer

The freezing weather has put the questionators to work trying to figure out the actual damage in dollars and cents to the fruit crop that we did not have.

While some sections have moisture enough for growing crops other places are reporting that sprouted grains are drying out. No doubt many of these reports are untrue, but a good warm rain would liven things up considerably.

The cold, dry weather is keeping the pastures short. Those who have plenty of hay are finding use for it and a winter ration of grain is necessary to keep up the flow of milk.

Dairymen are being blamed for trying to have laws passed that will drive the "poor man's butter" out of existence. This is not true. If oleo merchants had not tried to sell oleo as genuine butter there would never have been a law passed on the subject.

The absence of mud in the fields this spring has made it possible to bring out the disk harrow with the old-fashioned mud scrapers and do as good work as with the new ones, but it must be admitted that they are only a dry-weather machine.

The grain drill is coming into general use in the corn belt, but it is a mistake to try to have them do the work intended for the disk or the plow. A good seed bed must be prepared before using the drill in order to bring results.

Those who have planted their corn are on the anxious seat now and they have a reason to be. It is true that early planted corn is generally ahead all through the season, but sometimes the early bird does not get the worm.

Gophers are more numerous this spring than for some years past. They are very fond of corn, but do not seem to care two pins whether we have a good stand or not. A good way to get rid of them is to kill them. A gopher in time saves nine.

It is becoming more difficult to get pure grass seed every year. About the only safe way is to get the seed early and send a sample to the experiment station for examination. On nearly every farm it is necessary to sow some grass seed every year, but it is best to avoid quack-grass seed if possible.

It is a most discouraging thing to have to transact business with a man who looks too much on the wine when it is red. I have a neighbor who imbibes freely and he is exceedingly hard to get along with. He is careless about restraining his live stock, you can never depend on him in changing work at thrashing time and yet you do not always feel like turning him down cold. The poor fellow has to thrash his crop, but you always get the worst end of the deal. I would really pay a considerable sum of money if he could cut out the booze because it would add to my own peace of mind.

Many of the fields that were seeded early are green and were looking fine before the cold weather came. Others were seeded later and were barely sprouted and some were just finished. A few fields are still to be worked. A close observer will have a chance to see the effect of freezing weather at all stages of the game.

Setting out young apple trees when the buds on the old orchard are apparently frozen is what many of us did this spring, and with us the spade seemed heavier and the soil harder than usual.

There is more silo talk among the farmers this spring than ever before. Much of this is perhaps caused by the statements made by the sales-

men employed by the different silo manufacturers, but more is due to the fact that the past winter was an unusually bad one for those who fed corn fodder from the shock or from the stack.

Cattle that are fed on ensilage do not stand exposure to cold weather as well as those that are fed dry grain and dry fodder, but this should not keep anyone who is feeding stock for profit from using a silo.

It is a mistake to turn cattle into the pasture as soon as it begins to show green. There is very little nourishment there and there is something about the new grass that takes away their appetite for dry feeds.

Automobile dealers claim that they are unable to get cars fast enough to supply the demand. This leads many prospective buyers to wonder if the price of automobiles is governed by the general law of supply and demand.

One of the best things for the young people on the farm is to equip the farm home as fast as circumstances will permit, with the up-to-date conveniences found in any home, and by the way, this is one of the best ways to keep the old people on the farm also.

Look straight ahead when you are walking. We all go back to Mother Earth quickly enough without pulling our shoulders to the ground by constant looking at the soil. Look straight ahead and frequently look up.

One of the experiment stations has figured out that for a short feed, fleshy cattle will give better results than thin cattle. I think that's quite wonderful. The child that doesn't know that at ten years of age isn't really cut out to be a farmer.

I rather like to feed big, growthy steers. The little fine-boned fellows seem to thrive and they really take on a finish quickly, but when you put them onto the scales they're not there with the goods. Give me a big steer every time even if he isn't as pretty as some of Rosa Bonheur's finest paintings.

I can't see why it is so difficult to make a well-bred steer weigh 1,400 or even 1,500 pounds at twenty-four months. I can do that with a beef-bred bull every time without trying, and indeed I have had them at 1,600 pounds at that age more than once. Of course, it takes feed to do it, but the more rapidly you can get the pounds there the more profitable is the feeding operation.

I have one horse that has been on a sixteen-inch plow every day since we started about a month ago. His mates have been "spelled off" a little, but this old fellow has been at it every day, and he has already helped to turn seventy-five acres and he hasn't lost a pound of flesh in doing it. He feels so well every night when we turn him out for a roll he has more than once kicked the corner off a rain cloud. He only weighs 1,400, but if he were five years old he would be cheap at \$300. I would willingly pay \$600 for a pair like him.

One of my friends had a dappled gray gelding which he had almost adopted into his family. A day or two ago he sent me this message: "Jim took sick and died shortly after your last letter. He was the best horse I ever owned. Both of my men cried like children and so did I, to tell the truth. He was the most faithful horse I ever owned." That man knows how to appreciate a horse. I never received a letter like that from any of my friends who have lost an automobile. There's a difference.

Find a successful dairyman and ten chances to one you will find a silo on his farm and he will tell you that he

feeds his cows silage just as many months in the year as he possibly can.

The old shepherd who said, "A sheep well-summered is half wintered, well wintered is half summered," knew what he was talking about. A sheep either does mighty well or else does not do at all.

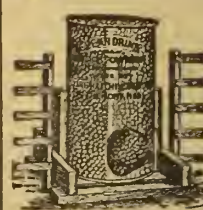
Charles L. Hill, the noted Guernsey breeder, once wrote, "There will not be enough registered cattle in a century to supply the dairymen's demand for cows." Yet we sometimes hear men questioning whether or not the dairy business can be overdone.

Of the 30,000 cows which are supplying the residents of Chicago with milk, but 7,500 have been tested for tuberculosis. The Chicago Board of Health has instituted a plan of pasteurization which in a measure, it is thought, does away with the necessity of tuberculin testing.

A certain well-known Percheron breeder in commenting upon the steady improvement of the Percheron horse recently said, "Many of us

have seen that noted picture 'The Horse Fair,' by Rosa Bonheur. When first exhibited in 1855, this created a sensation and yet it does not contain a single animal of desirable type. I do not consider it the fault of the artist, I believe she did the best she could with the material she had. The horses were round-bodied, leggy and rough, with bulging shoulders and were deficient in quality as compared with the Percherons shown at Chicago last fall. It would be difficult to recognize them as the same breed." All we really need then, is a painter.

Have Healthy Hogs



By giving them clean water to drink all the time from a **Clean Drink Fountain** Always operates because there is nothing about it to get out of order.

**NO FLOATS
NO VALVES**
Quickly filled. Easily cleaned. Best thing ever offered to hog, sheep or poultry raisers. For further information write to

**SURE HATCH INCUBATOR CO.,
Box 16
FREMONT, NEB.**



Whenever
you see an Arrow
Think of

Coca-Cola

Delicious
Refreshing
Thirst-Quenching

**Hot Walking
Hot Riding**

You can't get away from the heat; but you can keep it from hurting. Whenever you're hot, tired or thirsty

Drink

Coca-Cola

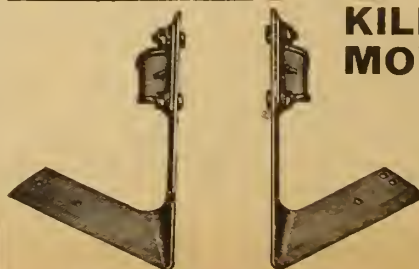
It refreshes mentally and physically—relieves fatigue and quenches the thirst. Wholesome as the purest water and lots nicer to drink. *5c Everywhere.*

Delicious-Refreshing-Wholesome

Send for our free booklet "The Truth About Coca-Cola." Tells all about Coca-Cola, what it is and why it is so delicious, wholesome and beneficial.

2-T

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CURRENT EVENTS

Governor Hughes, of New York, has been appointed to the United States supreme bench to succeed the late Justice David J. Brewer. The appointment is looked on as the strongest which President Taft could possibly have made, inasmuch as Governor Hughes is a lawyer of high standing and a man of exemplary personal character. President Taft offered the position to Governor Hughes who took it under consideration for a day and finally accepted. The president expressed himself as delighted, saying of Governor Hughes, "He is a man of wide experience and marked ability, and it is a mighty valuable thing to have on the great bench of the supreme court a man of affairs. Even if Governor Hughes should retire at seventy, he will have had twenty-two years of solid usefulness on the bench." The appointment was received throughout Washington with the greatest satisfaction. The members of the supreme court expressed their pleasure and welcomed Governor Hughes as one of their members. Representative Champ Clark undoubtedly expressed the sentiment of the democrats when he said: "It is a good appointment. Governor Hughes is a strong man." The present plan is to have Hughes take his seat on the bench in October. It will be necessary for him to resign the governorship and withdraw from the political campaign in New York this fall.

SERVICES as simple as his life attended the burial of the late Mark Twain. Addresses were delivered by two of his personal friends, Dr. Henry Van Dyke, the noted preacher, novelist and poet, and Dr. Joseph H. Twichell, a lifetime friend. Interment was made at Elmira, N. Y., the former home of the family and where Mrs. Clemens and three of the children already were interred. Foreign newspapers have united in declaring that Twain was the greatest living American writer. The London Standard calls him the American Chaucer and adds that he ranked alongside of Count Tolstoy as an inheritor of world-wide fame for his literary work. The Berlin Anzeiger said: "Not only English speaking peoples, but the whole world of culture grieves that he is gone." F. Hopkinson Smith paid him one of the most deserved tributes, saying: "Not a line from his pen left a sting; there was no irony in anything he wrote, nor was there any sarcasm. He was the exponent of pure American humor because he himself was pure. He never wrote anything which our daughters could not read." It is expected that a public memorial will be held shortly, at which due homage will be paid him by his fellow literary workers and by the greatest men of the country.

THEODORE ROOSEVELT created somewhat of a sensation among the French people by his address on "Citizenship in a Republic," which had long been heralded and was awaited with great interest. The Colonel has a way of expressing his mind without mincing matters and he laid down a number of moral precepts which must have caused at least some of his auditors to squirm mentally, to say the least. Among other things the Colonel said: "The first essential in any civilization is that the man and the woman shall be father and mother of healthy children, so that the race shall increase and not decrease. If this is not so, if through no fault of the society there is failure to increase, it is a great misfortune. If the failure is due to deliberate and wilful fault, then it is not merely a misfortune—it is one of those crimes of ease and self-indulgence, of shrinking from pain and effort and risk, which in the long run Nature punishes more heavily than any other. If we of the great republics; if we, the people who claim

to have emancipated ourselves from the thralldom of wrong and error, bring down on our heads the curse that comes upon the wilfully barren, then it will be an idle waste of breath to prattle of our achievements, to boast of all that we have done. No refinement of life, no delicacy of taste, no material progress, no sordid heaping up of riches, no sensuous development of art and literature, can in any way compensate for the loss of the great fundamental virtues, and of these great fundamental virtues the greatest is the race's power to perpetuate the race." Roosevelt was given an almost royal reception in Paris, being dined by President Fallieres and occupying the presidential box at the Comedie Francaise. His trip through Europe has been one continuous ovation, even the peasants who can know but little of what he has accomplished joining in demonstrations of enthusiasm, hailing him as an apostle of peace and the man who has done the most of any living man to give back to the common people their rights.

ANDREW CARNEGIE, addressing the members and guests of the National Press club, declared that President Taft is one of the greatest presidents the country has ever had and for his efforts for world peace the country should grant him a high place in history. Mr. Carnegie commended the Payne-Aldrich tariff law as the best tariff law ever enacted and extolled the progress and spirit of the West, adding a vigorous plea for universal peace. On the same day President Taft and Mr. Carnegie occupied the platform together at the dedication of the new Carnegie library at Howard university in Washington. The president, referring to his distinguished fellow-guest, said, "We do not envy Mr. Carnegie his money nor the fortune that has attended his efforts. The thing we do envy him is the happiness that it must give him to do so much good for his fellowman as he is doing every month in the year." Howard university is an institution of higher learning devoted to the negro. Mr. Carnegie, addressing the negro students, said: "Fit yourselves to take your place with the white men and the race problem will be no more."

THEODORE ROOSEVELT has accepted several invitations to deliver addresses in the middle West and Rocky Mountain West next fall. He will attend the annual Frontier Day celebration at Cheyenne, Wyo., and en route will stop at Kansas City, possibly at St. Louis, and will deliver an address at the dedication of the John Brown battlefield at Osawatimie, Kan. Colonel Roosevelt has received dozens of invitations by cable to visit various American cities, but he has accepted only a few. The retirement of Governor Hughes from New York politics may result in Roosevelt being immediately involved in the political situation in that state upon his return, notwithstanding his personal preferences in the matter. He is undoubtedly the only man to whom New York can look to hold the state in the republican ranks and it is expected that the ex-president will take a hand in the fight there to the end that the Empire state may be saved to the party.

BJORNSTJERN BJORNSON, the famous Norwegian poet, novelist, dramatist, reformer and advocate of universal peace, died in Paris during the week. His death was not unexpected, but it was hoped that treatment by specialists would prolong his life. Bjornson ranked next to Ibsen as the leading Scandinavian writer. He was shown unusual honors in his last days, making part of the journey to Paris with the King of Denmark in the king's private car. Although not so well known as Ibsen in this country he was ex-

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And thousands of men who never owned pleasure cars are ordering Overlands as fast as our factories can make them.

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The Overland has fewer parts than any other car. The usual complexities have been eliminated. Many an Overland has been run from 7,000 to 10,000 miles without even cleaning a spark plug.

The Overlands operate by pedal control. Push a pedal forward or backward and you go ahead or reverse. Push another pedal forward and you get on high speed. It is as simple as walking. A child can master the car in ten minutes.

Just supply the car with oil and water and the Overland always keeps going. Any member of the family can run it.

It is as faithful as a horse—as

easy to drive as a horse—and cheaper than a horse compared with the work that it does.

The \$1,000 Car

The 25-horsepower Overland sells for \$1,000 in roadster style. Or for \$1,100 with a complete toy tonneau. The wheel base is 102 inches—the possible speed is 50 miles an hour.

A 40-horsepower Overland sells for \$1,250. And the other styles—up to \$1,500—are just as cheap in comparison.

These cars are made—as watches are made—by the use of automatic machinery. They are made in such modern plants, and in such enormous lots, that they give more than any other car for the money. The cost has been cut 20 per cent in the past year alone.

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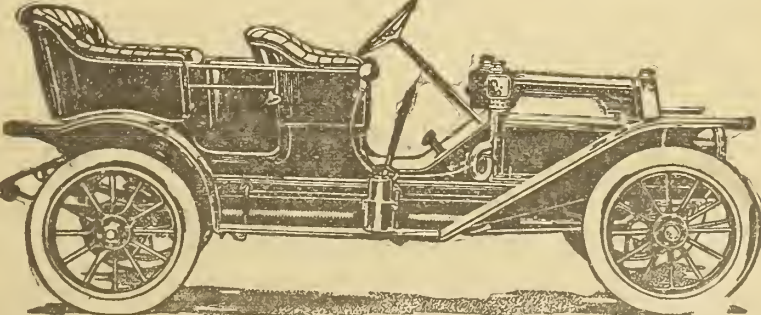
You will find in the Overland just your idea of a car. If you wish to run your own car, there is nothing else to compare with it. And, even though you are an expert, this utter simplicity, this freedom from trouble are very desirable features.

There are Overland dealers now in 800 towns. You can see the cars anywhere. If you will send us this coupon we will mail you our new catalog, and will tell you the nearest dealer.

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Overlands are made in all styles of bodies—some 25-h. p., some 40-h. p. The 25-h. p. Roadster costs \$1,000; with Toy Tonneau, \$1,100. The 40-h. p. Roadster with single rumble seat, costs \$1,250. Other styles up to \$1,500. All prices include five lamps, magneto and full equipment.

ceedingly popular in Norway and undoubtedly left his mark upon Scandinavian politics and literature.

LOUIS PAULHAN, the French aviator, made a record-breaking flight during the week, sailing through the air from London to Manchester, a distance of 180 miles, with simply an over-night stop. He reached his destination in good order and made an easy landing. The flight shows the possibilities of the aeroplane for cross country traveling.

A STRIKING defense of the Payne-Aldrich tariff law as a great blessing to American industries was made by Vice-President Sherman in an address in St. Louis. Mr. Sherman declared that the new law has wrought wonders already and is working out even better than its framers themselves believed probable when they drew it. He asserted that the farmer, the laboring man and the manufacturer alike are reaping the fruits of great industrial activity, due largely to the tariff provisions. The vice-president made a plea for an even higher protective tariff, saying: "Because I believe we should make at home nearly everything that we can instead of buying it abroad, I again emphasize the fact that, while I do not advocate an immediate revision of the tariff and do not advocate necessarily when that revision is made that it shall again be upward in every essential, yet I wish to put myself on record here as insisting that it is the duty of the business men of this country to scan closely these increasing imports and see, if they continue, whether it would not be wise to a little better protect our own labor and industries instead of sending abroad our gold to pay cheap labor in foreign countries." He argues that if America does not anticipate and prepare, if the custom gates are open too far an avalanche of foreign goods will result that will close the mills and drive American laborers to idleness. His speech was heard by several hundred St. Louis business men and was frequently and heartily applauded.

IT SLUGS HARD

Coffee a Sure and Powerful Bruiser.

"Let your coffee slave be denied his cup at its appointed time! Head-ache—sick stomach—fatigue like unto death. I know it all in myself, and have seen it in others. Strange that thinking, reasoning beings will persist in its use," says a Topeka, Kansas, man.

He says further that he did not begin drinking coffee until after he was twenty years old, and that slowly it began to poison him, and affect his hearing through his nervous system.

"Finally, I quit coffee and the conditions slowly disappeared, but one cold morning the smell of my wife's coffee was too much for me and I took a cup. Soon I was drinking my regular allowance, tearing down brain and nerves by the daily dose of the nefarious concoction.

"Later, I found my breath coming hard and frequent fits of nausea, and then I was taken down with bilious fever.

"Common sense came to me and I quit coffee for good and went back to Postum. I at once began to gain and have had no returns of my bilious symptoms, headache, dizziness, or vertigo.

"I now have health, bright thoughts, and added weight, where before there was invalidism, the blues, and a skeleton-like condition of the body.

"My brother quit coffee because of its effect on his health and now uses Postum. He could not stand the nervous strain while using coffee, but keeps well on Postum.

"Miss F., I know personally, was incapable of doing a day's work while she was using coffee. She quit it and took up Postum and is now well and has perfectly steady nerves."

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Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

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OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

REAL ESTATE SALES.

As a general rule, a seller of real estate cannot be held liable for damages on account of false statements or misrepresentations made to the purchaser as to the value of the property, where the seller has an opportunity to investigate and examine it.

Every person who is capable of contracting, and being contracted with, is deemed by the law to be his own guardian. In the sale of real estate which may be seen by all men, the law imposes a duty upon the purchaser as well as upon the seller, and it refuses assistance or relief to those who have it abundantly in their hands to take care of themselves. The mere commendation, or even false representation by the seller of property an exaggerated value. If no purchaser has an opportunity to ascertain for himself such value, by ordinary vigilance or inquiry, has no legal effect upon the rights of the contracting parties, even when made with the intention to deceive. Courts have gone so far as to hold that if the seller should even falsely state that a particular sum had been offered by others for the property, by which means the purchaser was induced to buy, no relief can be afforded the purchaser, who ascertains that he has paid an excessive price, because he should have informed himself from proper sources concerning the real value, and it is his own folly to rely on an assertion of value made by the seller, whose self interest may so readily prompt him to give the property an exaggerated value. If no confidential relations exist between the parties,—such as attorney and client,—guardian and ward,—trustee and beneficiary, and the like, and if the facts misrepresented or concealed are not peculiarly within the knowledge of the seller, and the buyer has available means of knowing the truth, by the exercise of ordinary prudence and intelligence, and nothing is said or done to prevent inquiry on the part of the buyer, he must make use of his means of knowledge, or he cannot complain that he was misled.

The naked assertion by the seller of property, that it is worth so much money, although untrue, and known by the seller to be untrue, will not render him responsible to the buyer for damages sustained by the latter, unless there is a want of knowledge on the part of the buyer, and the sale is understood by the parties to be made in entire reliance by the buyer on the representations made by the seller, or unless the seller employs some artifice to prevent the buyer from obtaining knowledge of the real value.

While misrepresentations of material facts concerning property, will render a seller liable for damages, a statement of the value of real estate, is considered by the law to be not a representation of material fact, but merely the expression of an opinion, there being no precise or fixed method of determining the exact value of real estate, every man having his own opinion about it.

The statement that a certain piece of property is worth so much money, and cannot be bought for any less, is very common in real estate deals. It is considered mere "trade talk." A purchaser who relies on such talk, and buys property without using ordinary prudence to investigate the truth of the statement, does so at his own risk, and is not entitled to recover damages on the ground of fraud or deceit.

LAW QUESTIONS CONSIDERED.

CONSIDERATION FOR LAND.

A Subscriber, Seibert, Colo.—An heir was promised a certain sum of money if she would sign away her right in certain real estate in Iowa. She accordingly did so, but the money was never paid to her. She has since died,

leaving a husband and children. She signed away her right in the land during her mother's lifetime, and there is nothing to show that she was ever paid the money promised her. Have her husband and children any rights which they can enforce.

Answer.—They have a right to either the land or the money. If her interest in the land is still held by the party to whom she conveyed it, her husband and children might recover it by a proper proceeding in the district court of the county where the land is located. If the interest has been transferred to another party, they will have to sue the party who promised to pay her the money, for the amount promised and interest.

VACCINATION OF SCHOOL CHILDREN.

An Iowa Subscriber.—Our children were sent home from the town public school by the teacher because they were not vaccinated, and she said they could not return to school until they were vaccinated. The school teacher acted under orders from the school board. There is no disease within several miles of here. (1) Is there a state law in Iowa compelling parents to have their children vaccinated in order to enjoy the privileges of the public schools? (2) Can I compel the school authorities to allow my children to attend school without vaccination?

Answer.—(1) There is no state law in Iowa requiring school children to be vaccinated. The action of the teacher and board of directors in refusing your children admission to school without vaccination, was doubtless based upon some rule or regulation made by the board of directors. The question whether or not they have legal authority to make such a rule in the absence of a specific statute authorizing it, has not, we believe, been decided by the supreme court of Iowa, but the supreme courts of several other states have held that the general powers granted by law to school boards, are sufficiently broad to cover the subject, and enable such boards to make and enforce a rule requiring pupils in the public schools to be vaccinated, and we are of opinion that such a rule would be sustained in Iowa if it were made because of a reasonably well founded belief and apprehension entertained by the board that smallpox is prevalent in the community, or is approaching the vicinity. (2) If neither the teacher nor the school board will reinstate your children in school your only course is to appeal to the county superintendent of schools.

TELEPHONE STOCK—SALE OF FARM.

A Subscriber, Milton, Iowa.—A sold his farm to B. The sale was made by a land agent. A owned a share in a farmers' telephone company which was not incorporated. Nothing was said at the time of the sale about the telephone share, but on the day the deed was made, which was about three months before possession of the farm was to be given, A offered to sell the

telephone share to B for a certain price, but B refused to pay that much for it, and wanted it without charge. A then said he would sell the share back to the telephone company if B would not buy it. The by-laws of the company provide that the purchaser of a farm has the first right to buy such a share, and the company has the second right to buy it. Nothing more was said by A or B about the matter until about a month after B paid for the place and took possession, when he claimed, and now claims, the share of telephone stock. Can he lawfully hold it?

Answer.—He cannot. The share of stock is no part of the farm, and is not a fixture which belongs to and goes with it. The only way that B can become the owner of it is to buy it unless A or the company chooses to give it to him.

PARTITION FENCE—TIMBER LAND.

A Subscriber, Woodburn, Iowa.—A and B own adjoining lands. A wishes to pasture his land, but B's land is timber land and he does not want to pasture it. (1) Can A compel B to make and keep up one-half of the partition fence between the two tracts of land? (2) In case B does not bear half the expense of making a partition fence, can he compel A to keep his stock off of his timber land?

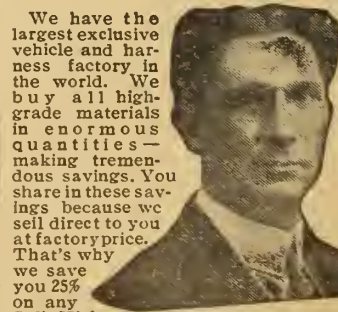
Answer.—(1) If B's land is used by him only for the timber thereon, he is not required by law to contribute towards making or keeping up a partition fence and if A wants such a fence he will have to build it at his own expense. (2) If B will not bear his share of a partition fence, he cannot recover damages on account of A's stock going upon his premises.

DAMAGE BY CHILDREN.

A Subscriber, Lorimer, Iowa.—For about two years an old thrashing engine has been standing in a field near the crossing of two public roads, within 100 feet of each road. Recently three girls were driving along one of these roads in a buggy, with the family driving horse, which is quiet and gentle, and some boys from town had fired up the old engine with dry grass, which caused lots of smoke and scared the horse beyond control of the girls, and it ran away and threw out the girls and they were dragged and bruised so as to require the services of a physician. The horse in its fright ran into a wire fence and injured itself so as to be almost worthless. My damages on account of injury to the horse, buggy and harness amount to at least \$250. The owner of the engine and the parents of the boys have no property. Have I a good case against the town or against the owner of the field, which is within the town limits?

Answer.—You have no case against the town, nor against the owner of the field, nor against the owner of the engine. It was not unlawful for the old engine to stand in a private closure, nearly 100 feet from the public roads. The real cause of the injury was the act of mischievous boys and their parents are not liable unless they were at least aware of it and advised it. The boys are the only parties legally liable for the damages.

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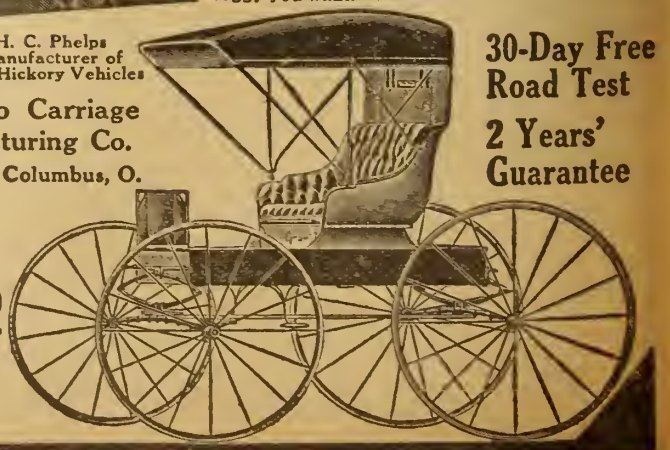
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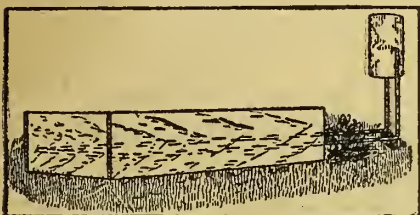


HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

PRESERVING FENCE POSTS.

Many preservatives have been placed on the market for preserving fence posts and other wood and timbers that are exposed to the weather, some of which have been good and others not so good. The great trouble has been that almost all of them must be applied hot, or rather the post must be immersed in the liquid while it is hot, as applying the hot liquid with a brush does not seem to have the desired effect. Possibly no better preservative has yet been found than the common crude creosote. If the timber can be given a dip in the liquid while hot an ordinary fence post will absorb from one-half pint to one and one-half pints and will penetrate the wood for quite a distance. The device herewith illustrated was lately rigged up by a subscriber for treating a few posts,



and proved entirely satisfactory. It has been found by the telegraph and telephone companies that the creosote is best heated by steam or hot water, and as we could not use steam the device was rigged as illustrated. An ordinary five-gallon oil can was used for a supply tank and a one-inch pipe was fastened to the bottom by two lock nuts. The pipe extended down one side of the wood box as shown by the dotted lines, and out along the opposite side and entered the can at about the center on one side. The pipes extended out from the wooden box four feet, and the ends under the can were supported with a brick. The can was nearly filled with water and a fire built around the pipes between the brick and the box. The water was soon hot and a circulation started that kept the preserving liquid in the box hot nearly at the boiling point. Two large hooks were made similar to hay hooks, for lowering the posts in the box and for removing them to a drain that was built on one side for draining the surplus liquid back in the box. The posts were left in the liquid for five or ten minutes, according to the size of the post and the temperature of the liquid, as the hotter it is the better will it penetrate the wood. This device will prolong the life of a fence post many years and the cost to make one will be small compared to the saving effected. If we had many posts to treat we would line the box with galvanized iron.

A Corn Tester.

It is possibly a little late in the season to give advice on making seed-testing boxes, but we believe the farm boys and girls will be interested in the accompanying illustrations because there will be just as much need for testing boxes next year as there was this year. This tray (or several of them)

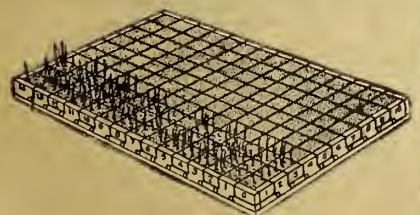


FIG. 1.

can easily be sawed from an empty soap or cracker box. When finished it should be about one and one-half inches deep inside, fifteen inches wide and twenty-three inches long; but any of these dimensions may be varied slightly. This tray is divided into small squares by a checkerboard lattice of twine across the top. It is con-

venient to have these squares about one and one-half inches on a side, ten of them in a row across the narrow way of the tray, and fifteen the other way.

Figures 1 and 2 show the progressive

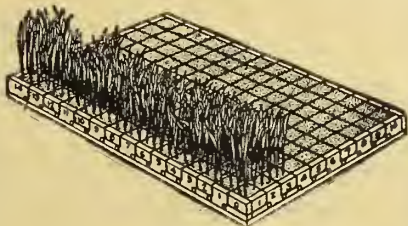


FIG. 2.

growth of corn plants in the tray at the end of successive periods. It is best to make the final examination of the plants at some point between the stages shown in these two views, as

the latter is a little too far advanced to permit doing the work easily. The plants should be about two or three inches high. Begin at square No. 1 and carefully examine each square in regular order through to the last. If you find five good, sturdy plants growing from the five kernels planted in a square, the ear from which they came is all right for planting in the field. It is not necessary to pull these plants up or examine the roots; you can be sure that the roots are all right if the plants are satisfactory.

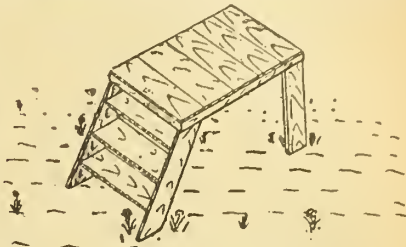
If there are five plants in the square, but two or more of them are shorter than most of the others in the tray, or look pale and sickly, take at once the ear from which they came out of its row and do not let it get mixed with those that are to be shelled for planting in the field.

If there are four good plants in the square, but the fifth one is smaller or cannot be seen at all, dig down carefully until you find whether the kernel germinated. Sometimes the plumule (young stalk) is held at the tip by the tough skin or hull of the kernel until it is bent over and starts to grow horizontally or downward under the sand. Such a stalk may not yet have its head out in the air when the tray is examined, and so may be pale and weak from lack of breath and sunlight. That would not show any posi-

tive fault in the ear from which it came and would not be a sufficient cause for discarding the ear.

Handy Platform.

It is sometimes convenient to have a platform about as high as the wagon box or spring wagon bed where the women folks do the marketing. Articles may be placed on this platform, and then when the wagon is backed



up to it they may be easily loaded. It is provided with steps and in muddy weather the carriage is driven along side where easy entrance may be made without the usual danger of having the clothing soiled from the muddy wheels.

STATE MAPS Of Iowa, Illinois and Wisconsin, giving location of rivers, railroads, lakes, number of inhabitants of each town. This handy map only 20c. This offer good for one month only. Money back if not satisfactory. Address **NELSON MAP CO., DEERFIELD, WIS.**

NOW IS THE TIME TO PREPARE for the HARVEST

TO BE sure of the full profit from your acres at harvest time, you must take the step now that will insure your being able to make every minute count then. A delay at the time when you are harvesting your crops will be costly under the most favorable circumstances, and it may destroy the profits of a whole year's work.

Preparing the soil—planting good seed—at the right time—these are highly important—but they are only the means to an end—only steps that lead to the all important time when you reap your reward.

You cannot reap your full reward without the proper machines any more than you can reap reward without proper care in the preliminary steps.

To reap all the profit that should be yours you must be prepared with the most efficient harvesting machines.

And now is the time to select them—to make sure you are ready. You are going to be busier every day from now on.

Start today to look over your equipment. Find out what you will need. Think what it was that would have helped you out most last year. Resolve that this year you will be ready.

There are many points to consider in choosing a harvesting machine. You must consider them all carefully. You not only want efficiency, dependability, durability—but you want the machine that will meet your particular requirements.

You can only be sure of getting all these by taking the proper time to make your selection. And your first consideration should be to find now a line of established reputation that will give you the greatest number to choose from.

Your first step therefore should be a visit to an International dealer.

Under these names—

Champion Deering McCormick Osborne Milwaukee Plano

—You will find the machines that will meet your requirements.

Thousands of farmers, hard-headed business men with just the same problems that confront you, have had their problems solved by some one of these machines. They did not buy a Champion, Deering, McCormick, Milwaukee, Osborne or Plano because they were prejudiced in their favor. They bought because they were convinced that these machines represented the highest standard of excellence in harvesting machines—because these machines met their requirements—because they felt they were get-

ting the greatest return on their investment. And they were not disappointed.

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Choose the machine that fills your requirements. If you don't know an International dealer, write to us and we'll give you the name of the one nearest you.

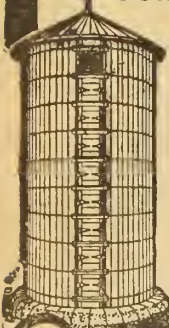
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THE FEEDING AND WATERING OF COWS.

To the Editor of The Homestead:

All foodstuffs should be kept in separate apartments. Only such foods should be used as are in good condition, readily digestible and nutritious. Any food which might affect the healthfulness of the animal should be excluded, and food which may taint the milk, such as turnips, ensilage, etc., may be fed after milking so that the volatile constituents of these various feeds which are responsible for the tainting of the milk may have left the system before the time of the next milking.

Feeding should be liberal and regular. If feeding is not regular cows become restless and the supply of milk will be affected. The time of milking should also be regular. Any change in the food should be made

gradually and the proper balance maintained. Special care should be taken in changing from a dry or a green, succulent food, only small quantities of green food being given at first and the amount increased from day to day as the dry food is reduced. In feeding cows and cattle it is well to remember that bulk is absolutely essential for rumination. During the milking season the diet should be rich in proteids.

Milking cows require large quantities of water and should if possible have access to pure water at all times. Consumption of large quantities of very cold water greatly reduces the flow of milk, the best temperature of water being between 50°, or 60° and 65° F. The use of stagnant or impure water greatly and readily taints the milk. Dysentery and typhoid fever are two diseases often transmitted by milk, and are greatly due to the water supply. Subscriber.

Water in Butter

By Carl E. Lee

THERE must be a certain amount of water in butter to make it a perfect article, not that the per cent of water must come within certain fixed or narrow limits, but the amount that is present in butter made under normal conditions where quality is the main object.

To the average consumer the water content is not greatly noticeable unless there is a small quantity of free water left in the package in which the butter was originally packed. However, this free water bears no direct relation to the amount present in butter, but it is an indication of the plan followed in its manufacture.

Butter mechanically perfect may contain between 10 and 15 per cent of water. As a rule, this extreme difference cannot be detected except by men who have made the subject a study.

The value of butter is based on its quality and general make-up and not its natural composition, except in cases where it has been carried to an extreme.

The factors in composition that will affect its quality are the extremes in salt content or whether the salt is all dissolved.

The limit which was placed upon the water, to be incorporated into butter, was in part to do away with the growing tendency on the part of some to make an article that should contain the lowest possible amount of butter fat and yet bear the name of butter. If this had not been checked, there would have been danger of placing the ability of the butter maker upon the question, "Can you get us the over-run?" in place of, "Can you make good butter?" It seems as if that idea is still encouraged in certain localities.

The over-run bears a certain relation to the composition of the butter, but is not a sure indication that a high per cent of water means a correspondingly high over-run.

A butter maker should have an over-run that checks fairly well with the fat in his butter, providing the loss of fat in the process of manufacture has been kept at its minimum. It cannot always be said that an over-run of only ten per cent is an indication of butter having a high fat content, any more than a high over-run indicates low fat content butter.

The greatest factor in over-run control is the accurate determination of the total butter fat delivered to the creamery. If more butter fat was delivered than was actually paid for, it

cannot help but increase the over-run and vice versa

Naturally the question arises, "Can butter be made to always contain less than the legal 16 per cent limit for water? The answer is positively, "Yes," with a fair margin for safety. In fact butter can be made to not exceed even a 15 per cent limit. A good commercial product can contain 14 to 15 per cent of water. This added to the 82.5 per cent standard for fat makes a total of 96.5 to 97.5 per cent leaving a balance of 2.5 to 3.5 per cent for salt, casein and ash. Since the average casein and ash content

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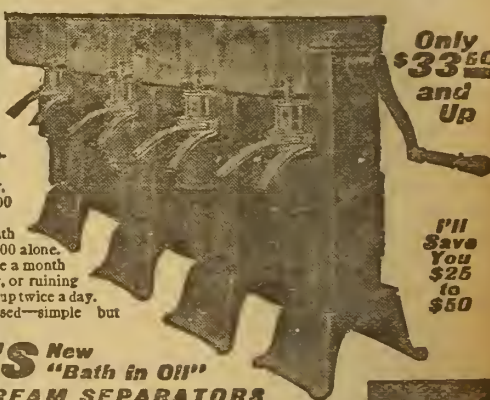
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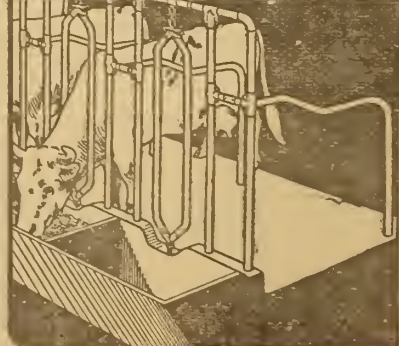
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need not exceed one per cent, this leaves 1.5 to 2.5 per cent for salt. This amount of salt is not sufficient for all grades of butter, nor will it meet the demand of all consumers. In order to increase the salt content, there must be a decrease in the water. A commercial product will pass to certain consumers, containing 3.5 per cent salt, but need not exceed 3 per cent.

It is not safe to work too close to any standard because of variation in composition due to sampling. One sample of butter taken to represent a churning may or may not be an accurate representation of the butter in question. An average variation of at least one-half per cent must be allowed with an extreme of at least one per cent.

This is explained as follows: A trier full of butter represents a small portion of the butter packed in a tub; in taking a trier full of butter from a tub more or less water will be forced to the top of the package. This free water is again picked up by the surface of the trier and butter as it is pulled from the tub. It is, therefore, difficult to say how much of this water belongs to the sample removed, yet the sampling by means of a trier is sufficiently accurate for all ordinary purposes.

In a series of experiments reported in Bulletin 137, Illinois Experiment Station—some sixty tubs of butter were packed from twelve representative churnings and each churning was represented by five tubs. A sample of butter was taken from each tub by means of a trier and one tub



CARL E. LEE.

from each churning was melted and again sampled. This comparison gave the following data as to variation in moisture between samples taken from the five tubs representing each of the twelve churnings: 0.93; 0.76; 0.82; 0.42; 0.92; 0.66; 0.57; 0.34; 0.62; 0.49; 0.59 and from churning number twelve the difference was 1.05 per cent.

The average difference in moisture due to sampling melted tubs was 0.36 per cent higher moisture than revealed by trier samples from the sixty tubs. In nine of the comparisons it was higher and three lower.

The question that is now being considered by the Wisconsin creamery operators: "Can butter be made to contain sufficiently low moisture to leave 83 per cent fat in the butter, allowing one-half per cent for safe margin and have enough salt in the butter to bring out the best flavor?"

The 702,000 pounds of butter, which is this year to be made for the navy, must contain less than 15 per cent of water and the salt between 2.5 and 3.25 per cent. The contract for the making of this butter was let to seven different creameries located as follows; one in each of the states of California, Pennsylvania, Michigan, two each in New York and Minnesota. This represents a very wide territory and yet the butter will be made to not exceed 13 per cent of water.

Wisconsin Experiment Station Bulletin 182, P. 17, referring to scoring exhibition butter: "The average of 14.4 per cent of moisture found in the

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month of July was the highest per cent for any one month. The lowest was 13 per cent found in the months

of December and January. The average moisture of exhibits for the year was 13.42 per cent.

The Value of a Pure-Bred Sire

By W. J. Frazer, Urbana, Illinois.

A FEW poor cows may do little permanent harm to the herd, but a poor sire will do untold damage. Frequently, dairy-men hold the penny so close to the eye that it is impossible for them to see the dollar a little farther off, and this is just what a man is doing who has a good herd of grade cows and thinks he is economizing by buying a poor or even a common sire.

If the good, pure-bred sire improves the milking capacity of his daughters only one and one-half pounds of milk at a milking above the production of their dams, this would mean an in-

crease of 900 pounds of milk for the ten months or 300 days an ordinary cow should give milk. The daughter would also be a much more persistent milker—that is, could give milk for a longer time in the year—and she would retain her flow of milk better after an unavoidable shortage of feed, as in a summer drouth. These daughters may certainly be credited with 1,000 pounds more milk per year than their dams produced. At the low estimate of \$1 per 100 pounds, this extra amount of milk would be worth \$10 per year. The average cow is a good producer for at least six years, or un-

til she is eight years old. It will, on the average, be four years after purchasing the sire, before his first daughters will have brought in the first extra \$10. Eight dollars and twenty-three cents, kept at compound interest for these four years at 5 per cent, will equal \$10, so the daughter's improvement or increase of income the first year is worth \$8.23 at the time her sire is purchased. The cash value of the daughter's improvement (inherited from the sire) figured in the same way for each of the last six years she gives milk, is shown in the following table:

Improvement first year.....	\$ 8.23
Improvement second year.....	7.83
Improvement third year.....	7.46
Improvement fourth year.....	7.11
Improvement fifth year.....	6.77
Improvement sixth year.....	6.45

Improvement for six years.....\$43.85

The total increased income of a cow over her dam by having a good sire is, therefore, \$43.85.

In an ordinary dairy herd of thirty-five to forty cows an average of seven-

teen heifers per year should be obtained, and twelve of these should be worth raising, making it easily possible for a bull to earn twelve times \$43.85, or \$526 per year. This would amount to \$1,578 in the three years that a bull is ordinarily kept in service.

Cost of providing every heifer one good parent:

	Pure Bred.	Scrub.
Cost of sire.....	\$150.00	\$ 30.00
Interest, 3 years, 5 per cent.....	22.50	4.50
Cost of keeping 3 years.....	100.00	100.00
Risk, 3 years.....	50.00	10.00

Total expense, 3 years..	\$322.50	\$144.50
Value at end of 3 years.....	100.00	30.00

	\$222.50	\$114.50
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Extra cost good sire, 3 years.....	\$108.00
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Extra cost good sire, 1 year.....	36.00
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Extra cost good sire, 1 daughter.....	3.00
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Considering the male calves as worth no more than if sired by a scrub,

lars is certainly a liberal allowance for the purchase of a pure-bred sire, and results here named are based upon having a first-class animal at the head of a herd. A herd of only thirty-five or forty cows is taken for illustration, while a vigorous sire, properly fed and exercised, is sufficient for a herd of forty-five to fifty cows, provided he is not allowed to run with them. There is another distinct improvement of the good sire's daughter, besides her milk production; it is the improvement of her blood or breeding, as the result of which her daughters will be better milk producers. This blood improvement of all the daughters accumulated through a series of years means a remarkable increase in the efficiency of the herd.

It is the common experience of dairymen who have used a really good improved dairy sire that the investment made them royal returns. The

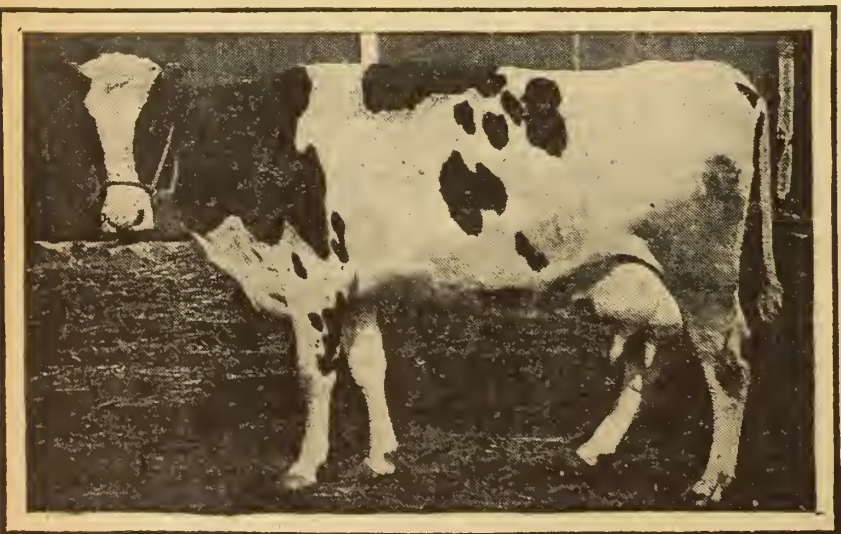


A YOUNG COW OF MUCH PROMISE, THE RESULT OF USING GOOD BULLS GENERATION AFTER GENERATION.

it would then cost \$36 to provide one good pure-bred parent for the twelve heifer calves which are raised each year, or \$3 per heifer. Where else can such an investment be found? Three dollars expended brings an average return of over \$7 per year for six years, or \$43.85 in all. This makes a clear addition of \$43.85 to the income of each daughter or a net profit of \$40.85, and of \$1,470 for thirty-six daughters in the three years. Here is nearly 1,000 per cent profit on the investment. The original cost of the good sire

\$150 cost price looks "too big" only to the narrow vision that cannot see the natural improvement of the herd certain to follow. Many a dairyman might have reason to say that he cannot afford to pay a big price for a fine cow, but the same argument does not apply at all to the purchase of an improved bull, because the sire's influence spreads so much farther and faster than that of the cow.

If the heifer calves are to be raised for dairy cows, there is absolutely no business or reason for keeping a scrub



THIS HEIFER PRODUCED 1,591 POUNDS OF MILK IN ONE MONTH, WHICH MADE EIGHTY-FIVE POUNDS OF BUTTER.

looks very small beside the \$1,470. It really pays as nothing else on the farm pays to put \$150 into the right kind of a dairy sire that will return practically ten times \$150 within three years.

An examination of details will show these estimates to be conservative. There is plenty of margin left for failures and unfavorable conditions. One thousand pounds of milk per year is a conservative estimate of the improvement of the daughter's production to credit to a good sire, but the details of figuring it may be varied to suit conditions in different herds and different localities. One hundred and forty dol-

bull. The dairymen who think there is, pay a heavy price annually for maintaining that tradition. The scrub bull is the most expensive and extravagant piece of cattle flesh on the farm. He does not stop at being merely worthless, but will lose the farmer the price of two or three good bulls every year he is kept. The dairyman could not afford to keep a scrub bull if the animal were given to him, if he were paid for boarding the beast, and given a premium of \$100 per year for using him. The presence of the scrub in so many herds—many times without a single qualification except that he is a male—is an offense and disgrace to the



EMPIRE CREAM SEPARATORS

Kept Clean and Sweet Without Effort

YOU know that cleanliness in the highest degree, perfectly sanitary conditions, are absolutely necessary in profitable dairying. The shrewd cow owner chooses his equipment accordingly—from the separator to the smallest utensil. Take no chances on having your cream or butter graded "second" or "third." You want everything in your dairy easy to get unmistakably clean. The bowl devices in ordinary separators have slots, corners and crevices in which specks of milk or cream lodge to spoil the next skimming. The bowls in Empire Separators are different, better, more simple and perfectly sanitary. That's one vital reason why more and more thousands of experienced dairymen every year are choosing from—



FRictionless EMPIRE

EMPIRE DISC

The Empire Line

Different Styles—All Sizes in Each Style

Here we show the Famous Frictionless Empire and the Empire Center Feed Disc. Also the simple bowl of the Disc.

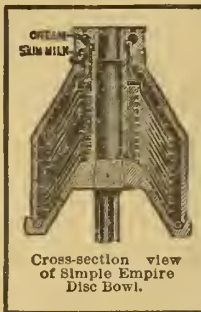
The dairy world recognizes these machines as by far the easiest to clean and the easiest to turn.

See the Empire and examine this bowl. It is lighter than any other with an interior skimming device, except the Frictionless Empire; the few smooth parts are cleaned in a jiffy because of no corners, slots or crevices to dig into; no place for impurities to lodge and spoil the next batch; cream has free passage to outlet so butter-fat globules are unbroken, adding to quality; spindle fits up into bowl, aiding perfect balance and ease of turning; the closest skimmer in the world, day in and day out, barring none, and we have the proofs.

Understand, this is the disc separator that has beaten all records in Europe, but still further improved by exclusive Empire patents and the Empire quality of materi-

als and construction, and now it has become the leader in America.

You may prefer the Famous Frictionless Empire, with its equally simple, sanitary bowl with cone device. Either of these, in the exact size you want, is the separator that will save you most work, and time, give you "First Grade" butter-fat always, make you the most money every year and for the longest term of years.



Cross-section view of Simple Empire Disc Bowl.

The Facts Are Free

Send postal for the facts proving the Empires to be the easiest to clean, easiest to turn, longest lasting and best paying separators. Our 1910 Dairy Book is full of information you should have—a guide to more dairy dollars. It is the only separator catalog that gives the unbiased truth about different styles, enabling you to choose the one which just fits your needs in every way. Write for the facts.

EMPIRE CREAM SEPARATOR COMPANY

Dept. G. 1225 Wabash Ave., Chicago, Ill.
Factory—Bloomfield, N. J.

We will give you this Separator if you can show us a better one

THIS IS NOT JUST TALK—IT IS A FACT:

If you can find any other separator that under the same conditions will skim to its rated capacity, as closely as the double cored IOWA we will make you a present of one of our machines.

An offer like that is more positive proof of genuine merit than any quality claim we could make. If we said

The Iowa Dairy Separator

is the best on earth, you would say, maybe it is and maybe it isn't. You would be generous enough to say that it was our baby and that we doubtless thought it the finest, but that didn't prove it.

But see if you can get any other separator manufacturer to make you this same proposition. If you can you will either get his machine or ours free of all cost. If you can't, you will know what machine is conceded to be the best by all manufacturers—men who ought to know.

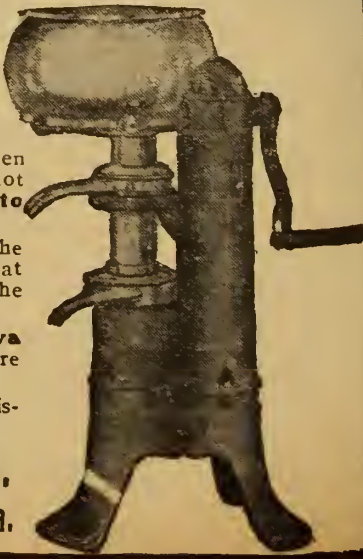
The Iowa actually does skim closer than any other. It skims cold milk to a trace. It is easiest to clean because the milk drains out of the bowl at the end of the run and water run through cleans it so that a piece of clean linen rubbed over the bowl any place will not show the slightest soil. It is easiest to turn and it is the most durable.

It is made by the largest factory in the world, and by the only factory that makes every part that goes with the machine.

If your dealer does not handle the Iowa write us and we will see that you are supplied.

Write to-day for our book giving surprising inside information about separators.

Iowa Dairy Separator Co.
113 Bridge St., Waterloo, Iowa.



dairy business, and a plain advertisement of the dairyman's thoughtless bid for failure. The only thing on earth the scrub sire is good for is sausage, and it is high time that this plain and simple truth were given practical acceptance by every dairy farm.

By all means get a good dairy sire, if you have to sell two or three cows to do it. The improved sire is, without question, the most economical investment in any dairy herd.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending May 1, 1910:

The fore part of the week was unseasonably cold, with freezing temperature and snow flurries over the larger part of the state, but Thursday and Friday were excessively hot with high winds. The maximum temperature on those days ranged from 90 to 98 degrees, which caused an excess of temperature for the week. The precipitation was very light and at many stations, especially in the western portion of the state, it was nil. Reports indicate that the hot, dry winds and general drouthy condition, following so closely after severe freezing weather, are affecting the grass and small grain crops in the western districts where the drouth has been the most severe. But for the state at large, those crops are in good condition generally. Rain is, however, needed in all districts to soften the surface soil and to start the growth of the plants. The late varieties of fruit seem to have escaped serious damage from the recent freezing temperature and garden truck is recovering under the effect of warm weather. Practically all of the corn ground is ready for the planter, and planting will become general during the coming week. The season is still far in advance of the average and the general crop outlook is very promising.

Geo. M. Chappel,
Station Director.

PROVIDING FOOD FOR THE SOIL.

When, in their ignorance of the chemistry of the soil, the farmers of the East began to find their crops failing a generation or two ago, they went out to the prairies of the West in search of "stronger" land.

In time, however, even this land began to fail. Wheat and corn fields began, with all of the care that could be exercised in the selection of seed, in the preparation of the soil, in the planting and in the tilling afterward, to yield less and less each year until even this "inexhaustible" prairie land began in many cases to seem to be "played out." And so, in many instances, even the western farmers have come to be "bag farmers," as they used to term it in derision—users of the products of the skill of the agricultural chemist.

The scientific end of this near-science or almost-science of agriculture has taught that, to grow at their very best, the plants of any farm crop must be fed as carefully balanced a ration as the dairy cow or the work horse. It has shown just how much of each of the principal elements of plant structure each crop requires for a given area.

Nitrogen, phosphorus and potassium, more ordinarily known as potash, are the principal elements needed in plant growth and these are required in varying amounts for different crops. The work of the agricultural chemist has placed at hand, for ready reference by the farmer, the tabulated data of just what is needed to bring to maturity in the best possible form and condition each of the various products of the soil. All the "book farmer" has to do is to look in his little book and act accordingly.

Phosphate rock, mined in South Carolina, Tennessee and in Florida, and elsewhere, applied to the land either merely ground into powder or treated with acid; dissolved bone meal, dissolved bone and furnace slag are the principal sources from which the phosphoric acid needed for plant growth is derived. Peruvian guano, by which name all the South Pacific guano is known in the commercial world, is also used to supply this material.

Of all the needed fertilizing materials, those containing nitrogen are most expensive. It is for this reason that the modern farmer grows crops of cowpeas, field peas, vetches, the clovers and alfalfa. These or their stubble, plowed into the ground, furnished not only large quantities of

humus, or the vegetable fiber bulk which goes so far in making stable manure valuable, but also, especially if the soil is inoculated with nitrogen gathering bacteria, supply through their roots a large measure of this costly element and thus materially cut down the cost of fertilizing material.

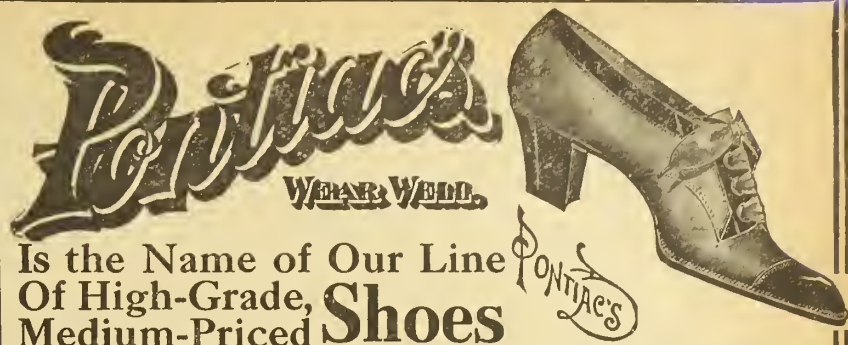
Lime, long used as a fertilizing material, as have also been some of the marls, has of late years been somewhat neglected because attention has been so much turned towards the prominent trio already named. This element makes unavailable nitrogen present in the solid assimilable and sets up other chemical action through its work in hastening the decay of vegetable matter (humus) in the soil. It renders heavy soils less stiff and makes sandy soils firmer and less porous.—Boston Herald.

THE FARM'S THE PLACE.

(Continued from page 3.)

figure anything on these—considers them incidentals. His figures are on cash received for milk. This man is his own boss and does not have to ask any one what he shall do, and I cannot understand how any man who owns a farm would leave it for a job in town.

The Kelly Land System Company, 7 News Arcade, Des Moines, Iowa, announce on page 32 that they have an excellent quarter section of Iowa land that they will sell at a very low price to a quick buyer. This is located near Clear Lake in Cerro Gordo county, and in a community in which prices run from \$75 to \$85 per acre. This for a short time only will be sold at \$60.



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For WOMEN, MISSES and CHILDREN
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If your shoe dealer does not handle Pontiac's, write us and we will give you the name of one who will supply you.

We will also send you a useful souvenir.

Pontiac Shoe Mfg. Co., Pontiac, Illinois.



The Kissel Kar transforms the sameness of farm life into the most pleasurable in the world, and besides has an immense value from the viewpoint of business and economy. The Kissel Kar is one of the handsomest cars made, and is built for hard test general "going" on all kinds of roads and hills.

Unlike most manufacturers, we do not buy parts. We build every part of the Kissel Kar and are directly responsible for all material used. This elimination of profits ordinarily paid to manufacturers of parts cuts down the cost, making it possible to sell the Kissel Kar at a lower price than any other car of equal quality.

The Kissel Kar is a standard, high quality automobile in every detail—reasonably priced—reliable for all roads—easy to control—not expensive to maintain.

MODEL D. 10 here illustrated is a 4 cylinder 50 H. P. automobile of highest quality. It carries four and five passengers. It has four forward speeds like the four and five thousand dollar cars. It is simply, substantially constructed and easily controlled, silent, roomy and easy running. This is the car that won

remarkable records in national hill climbs and road contests out in California. Altogether the Kissel Kar is a top-notch four and five passenger automobile.

30 H. P. four and five passenger car sells for \$1500; 50 H. P. seven passenger car sells for \$2500; 60 H. P. seven passenger six cylinder car sells for \$3000.

Write for the Kissel Automobile Book. It is full of information valuable to any one thinking of buying a machine. It beautifully illustrates all models. Free.

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SEED CORN OF HIGH TEST

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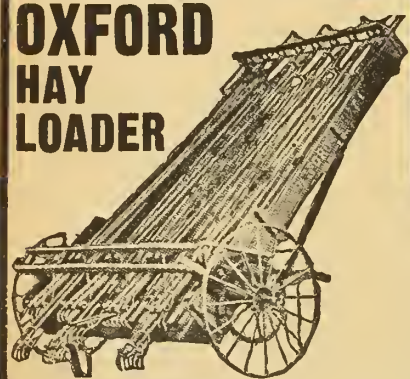
Reid's Yellow Dent - (test 93%)
Iowa Silver Mine - - (test 91%)
Iowa Gold Mine - - (test 89%)
Legal Tender - - (test 93%)
Pride of the North - (test 93%)
White Cap Yellow Dent (test 82%)

PRICE—1 bu. \$3; 5 bu. at \$2.85; 10 bu. at \$2.75; 25 bu. at \$2.50; bags free.

If not exactly as represented, your money cheerfully refunded. Write today. Address

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OXFORD HAY LOADER



Lightest draft loader on the market—pulls one-third easier.

Direct Gear Drive—no chains to wear out or break.

Works equally well in heavy or light grass—up hill or down.

Double Crank Shaft; Double Rake Bars; Double Rake Boxes; Rake Bars have Spring Joint and best material is used in construction.

Write for special introductory price and catalog.

LASACK BROS. & COMPANY
OXFORD JUNCTION, IOWA.



THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

SAVING FRUIT FROM FROST.

Reports from the various states of the grain belt indicate that the late April frosts have seriously damaged fruits. Wesley Greene, secretary of horticulture for Iowa, estimates that no more than 20 per cent of the normal crop of apples, peaches, pears, plums and cherries will be grown this year as a result of the temperature falling almost to 20 degrees. The condition is not so bad in some of the adjoining states, but it is bad enough throughout the greater part of the grain belt.

The experience suffices to show that in the important respect of protecting the orchards from these late and unexpected freezing spells, grain-belt farmers have something to learn from their western brothers. The incident serves to recall the fact that a few years ago as late as April 26th a killing frost visited the fruit belt of Colorado. The weather observer hurriedly sent out frost warnings which resulted in filling the hearts of the orchardists with dread. There were a number, however, who believed that success in fruit growing is founded on tireless patience, scrupulous care and continuous use of brains. Driving away the frost by means of smudging had frequently been successfully tried, but the anticipated frost in question was considered too serious to be overcome by this means of burning piles of damp hay in the orchard just before daybreak. Unless more heroic measures were taken it was considered probable that the crop would be utterly ruined.

One enterprising ranchman determined to try the petroleum pots which had been frequently exhibited at fairs, but which had never been adopted to any extent. These pots were secured at two o'clock in the afternoon, 500 of them being distributed over twelve acres. They were to act as huge lamps to raise the temperature of the entire orchard. The anticipated freeze came on so that by ten o'clock the temperature had fallen to 28 degrees. The ranchman secured the assistance of several neighbors who frantically rushed from one petroleum pot to another applying a lighted torch to the wicks. The mercury fell to 26 degrees before the greater part of the pots were in operation, but it was not long thereafter until the mercury had climbed up to 30 degrees. A correspondent describes the scene and the result of the work as follows:

Far and wide the pots burned on, but not now as a mere idle illumination. Now they seemed animate with human will. At last the East began to lighten. A great general was marching to their relief. And the bright eye of the sun showed over the line of the mountain.

The following Tuesday another cold wave, worse than the first, struck the valley. The killing cold began earlier and continued longer. At daybreak, when it was expected that a temperature which had been gradually rising for an hour would continue to ascend, came the worst assault of all. Feeling that the fight had been won, the owner of the orchard insisted that his neighbors go home and get some rest. Before they left the pots were half covered, as so much heat was not needed.

Ten minutes after the neighbors had departed, with daylight streaming in, the thermometer began suddenly to drop. It was 28 degrees before the rancher was aware of the danger. As fast as he could he began to kick the tops off the pots. But there was only one man where a half dozen were needed. The cold broke through the wall of heat and was in among the trees after the buds. The rancher guided his course clearing off tops to a thermometer. It stood at 27 degrees. He kicked across the orchard to another thermometer—26 degrees. He worked faster and faster. A few seconds later the mercury stood at 25 degrees—and then the sun came.

Many buds were affected by this drop, but enough was left to make a good crop. It was a lesson in the need of holding preparation at a hair-trigger until the sun actually comes up. Crude oil was obtained during succeeding nights, and the work made much easier. The crude oil burns much longer and can be handled without danger.

Of the ranchers who used the pots last spring, the most successful had

100 pots to each acre. His table of readings showed an extreme difference of 13 degrees between the center of the heat zone and the outside. On the ten acres which he protected he had practically a full crop, an oasis among surrounding orchards.

It is extremely likely that the bulk of the grain-belt fruit crop which was ruined by the recent freeze could have been saved by similar heroic methods. The western orchardists have begun making experiments with other means of artificially heating the orchards, using coal in place of petroleum. It is estimated that the petroleum pots cost about \$8 per acre a year, only a reasonable insurance considering the prices at which fancy fruit is sold.

SOME FACTS ABOUT STRAWBERRIES.

To the Editor of The Homestead:

As I have so many customers asking about the strawberry crop and as to the best time to plant, I beg to answer them and many other inquirers through your paper. The last freeze (that of April 23d) was more severe than the first, and yet with fair weather and sufficient moisture from now on, I believe we will have a good half crop of strawberries.

When growing plants for market or home use it is very important that the plants be properly mulched. Plants should be covered in the fall or early winter, scattering the straw or hay evenly over all the ground after the first hard freeze. This will keep the ground from thawing out and again freezing, and keeps it from heaving. This mulch should be put on evenly and just so you can see the plants through it. If in the spring you find you have put it on too thick, part of it can be taken off. Berries that have

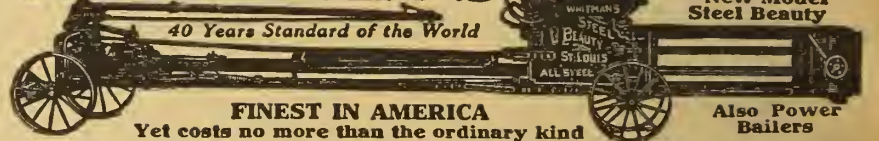
been cared for in this way will yet produce from one-half to two-thirds of a crop this year, regardless of this last freeze, provided we get sufficient moisture. Raspberries, however, are surely killed, and unless they produce new buds there will be none at all; likewise, currants, gooseberries and grapes. We do not expect much from them. We cannot tell about blackberries yet. Strawberries are the surest fruit crop of all and when properly planted, scarcely ever fail if properly cared for.

Many ask me regarding the best time to plant strawberries. In my quarter of a century or more of growing strawberries I have concluded that the 20th of April to the 15th of May on up to the 25th of May is the logical season. I have had the best success in planting between the first two dates named, while I have even had good success in planting about the 20th of June. Weather conditions, of course, have considerable to do with it. The secret of success, I think, though, is in the manner of planting, doing the work thoroughly, being sure to prepare the ground early and pressing the dirt firmly against the roots so they can suck the moisture from the ground. This is very important. I advise everyone to trim the plants back before setting, as I think this is very important. I open up a bunch of plants and take each plant, trim them back to only two leaves and take off all blossom buds. This can generally be done after the 15th to 20th of April, and when trimmed back to two leaves and all blossom buds taken off, the plant will go to work to recuperate. When the buds and a number of leaves are left on, the plant exhausts itself in trying to furnish nourishment for them. This is one cause for failure to get plants to grow. I claim that 95 per cent of plants prepared in this way and properly planted, with favorable weather will grow.

Polk County, Iowa. J. L. Todd.

A Riley County, Kansas, farmer who put a quarter of a hog, seasoned with strychnin, in the fork of a tree last winter, has already cashed in 120 crow scalps at the county clerk's office.

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Yet costs no more than the ordinary kind
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CRILL THE SEED CORN MAN ELK POINT, S. DAKOTA HAS GOOD NEWS FOR IOWA FARMERS

NORTHERN KINDS.					CENTRAL KINDS.				
Dakota Gold Mine	100	Days	Test	85%	Iowa Gold Mine	110	Days	Test	80%
Dakota Silver Mine	100	"	"	90%	Dakota Leaming	110	"	"	90%
Minnesota 13	90	"	"	85%	Reid's Yellow Dent	120	"	"	85%
Early Murdock	100	"	"	85%	Clark's Mastodon	120	"	"	80%
Strawberry	90	"	"	80%	L'fellow Whitecap	100	"	"	85%
All Dakota-grown, carefully-selected seed corn.					Shelled seed				
\$2.50 per bu. Ear seed \$3.00 per bu.					L. N. Crill Seed Co. Elk Point, S. Dak.				

All Dakota-grown, carefully-selected seed corn. Quick shipment. Shelled seed \$2.50 per bu. Ear seed \$3.00 per bu. L. N. Crill Seed Co., Elk Point, S. Dak.

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Guaranteed first-class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. J. B. Armstrong & Son, Shenandoah, Ia.

ALMOST SOLD OUT OF MOORE'S HIGH-YIELDING REID'S YELLOW DENT
BUT we have a splendid supply of 1909 crop Silver Mine (white) that tests 95%, and we ship it subject to inspection and test—your money back if it doesn't suit you. Prices for select ear seed, testing 94%, or we take it back; \$4 per bu.; 5 bu. or more at \$3 per bu.; 10 bu. or more at \$2.75 per bu. Shelled seed, same test guaranteed, \$2 per bu. This is fine seed and will not last long. Rush an order. We also offer Bloody Butcher (early) at \$2.50 for ear seed, \$2 for shelled, test 94%. C. Moore & Son, Kellerton, Iowa.



Which Wagon Would You Choose

This letter from Guy L. Shaw, of Beards town, Ill., explains these two photographs: "Enclosed find photograph of a Davenport Steel Wagon and an ordinary wooden wagon—exactly how they looked after doing the same work, over the same roads, with the same loads."

Mud does not stick to Davenport wheels—but that's only one of the reasons why you should choose

The Davenport Roller-Bearing Steel Wagon

Roller bearings mean 30% to 50% lighter draft. Guaranteed to carry 5,000 pounds. Gears solid steel, trussed like a bridge. Steel wheels, strong spokes, forged into hubs and not riveted to trees. Nothing to shrink, rotor work loose. Oil without removing wheels. One Davenport lasts a lifetime. Don't buy any wagon till you write us. Be sure to ask for Free Package No. 14

Davenport Wagon Co., Davenport, Ia.



250 STRAWBERRY PLANTS \$1
CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. **THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.**

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DAY BY DAY

AGRICOLA

It may be a detriment to a pasture, or it may be a benefit, to be rooted up by hogs. Rooting in itself harms the pasture, but so do worms in the sod which the hog puts out of business. Once my shoats foraged on a neighbor's meadow and he complained. I promised to make good all damages, of course, and he was to fix the amount himself at haying time. He said after mowing it that the hay was better where the rooting had been done, and would take no pay. Still rooting puts the pasture out of commission temporarily, and works off flesh from the hogs, and let the arguments be what they may I have put rings in the hogs' noses this year.

The manure spreader has a distinct advantage over other farm machines. Wood sawed by hand gives as much heat as wood sawed by machinery; hay mown by hand is as nutritious as that mowed by machinery; grain thrashed with the cumbersome hand flail is as nutritious as grain thrashed by machinery, but hand spread manure does not "go so far" as that spread by machinery. Farmers all agree to this, and experiment stations prove it by careful tests.

I have used return aprons and endless aprons on manure spreaders and am willing to let every farmer take his choice. Both work well for me.

The easiest and safest way I can arrange for a good pig crop is to have them farrowed in the pasture when grass is growing. I have portable hog houses, each suitable for a sow and litter, which I haul to different places in the pasture. A sow will generally pull grass and make up a bed in one of them before the stork comes. If not I pick up the little fellows and put them in and she soon follows. But this does not furnish early pigs, it must be admitted.

That nimrod who confided to us the statement that he shoots every crow he sees is a phenomenal marksman if the crows in his locality are like those in this balliwick. It is easier to see three crows than to shoot one, in my experience.

And still there has been another "last snow of spring." The oats and barley which looked as green as a meadow are only halfway alive and at this writing one cannot determine whether to resow or wait a while. The trouble is that it is already late for seeding. At best the outlook is as discouraging as it was promising before the 70,000 census takers invaded our fair land.

One farmer who was suddenly taken sick finds that he has doctor's bills to pay but he saved his seed corn which would have been planted had he kept well. Another had corn up high enough to cultivate, but three inches of snow and ice an inch thick left nothing to cultivate.

I never saw farmers in so much doubt, so puzzled to decide what to do in this unprecedented emergency. One young farmer alone of my acquaintances is happier than ever before. He had taken an agricultural college course and when the unseasonable weather kept farmers idle and discouraged he took unto himself a wife and he wears a smile which is a benediction to the weather man.

I put some seed corn outdoors just two weeks ago for a field test. It has snowed four days, and the ground has frozen twice, and it has been a severe test. None of the kernels have rotted and ninety-six per cent have pushed out short sprouts a little, so I think it is strong seed and will be safe to plant when the ground warms up, which I hope will be by the time this is in print.

Since commencing these notes the weather has changed again; it is once more warm and balmy, the trees are making the third effort to robe themselves in green, and farmers are watching the oats to see how much of life is left. But fruit buds are killed and will not be renewed. It will not

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

FOR SALE—Estate; must be sold within the next 30 days. 1,280 acres in two solid sections; every foot corn land and has all been cropped. There is positively no tract of land in Iowa, Wisconsin, Illinois or Minnesota, of this size, that can compare with this beautiful farm. Just think of 1,280 acres of land all in one body that will raise a good crop of corn every year, and on the market at one half its actual value in order to close an estate quick. The first come, the first served. This farm is located eight miles from the Iowa line in Mower County, Minnesota. There you must pay \$100 and upwards for land. Here is a tract that can not be duplicated, and I am here to demonstrate or pay expenses. I have been here forty two years and refer you to the First National Bank of LeRoy, Minnesota, as to honesty and reliability. There is a good new set of buildings worth at least \$10,000. There has always been from 300 to 500 head of cattle kept on this farm, besides other stock. It is 1 1/2 miles from a good town on the main line of the Great Western and C., M. & St. Paul R. R. The price is only \$75 per acre, one half cash and balance at 5%. Now if you haven't enough money to buy this tract, get your friends to come with you and look it over. There is no agency commission to pay for and positively no misrepresentations. Address U. L. Stillwell, Owner, LeRoy, Minnesota.

HURRY—If you want your choice of the selected bargains in Hansen farms, North Dakota lands, come in unusual demand this year. Busy? We are up to our eyes in work, answering inquiries and showing lands. If you haven't yet sent for our interesting literature on this favored section, where choice improved and unimproved farms may be had at \$25 to \$35 an acre, write today. Agents wanted everywhere. Shipley Investment Co., Box 303, Hampden, Ramsey County, North Dakota.

GOOD FARM LAND in Eastern Montana is rapidly being bought and settled by good farmers. Prices are not advanced as in most other Western localities; the land is good and the climate desirable. We have over 20,000 acres and can suit you. J. G. Edwards Land Co., Third Street, St. Paul, Minnesota.

GOVERNMENT FARMS free. Official 112-page book, "Vacant Government Lands" describes every acre in every county in U. S. How secured free. 1910 diagrams and tables. All about irrigated farms. Price 25c. postpaid. Webb Pub. Co., Sta. H, St. Paul, Minnesota.

160 ACRES—120 in cultivation; 40 in grass; 3 room house; stables; granary; well; good water; windmill; good soil; 3 miles of Hunter; \$6,500, \$1,500 down, terms on balance. Bargains in farms and school leases. Circular free. A. J. Haskins, Hunter, Okla.

WE BUY, sell and exchange land for stocks goods and good income property; Minnesota, South and North Dakota. Agents wanted. Liberal commissions paid. Mack Land Company, Miller, S. D.

ADDRESS Homeseekers' Information Bureau, Pierre, South Dakota, for the truth concerning Dakota lands and homesteads. Particulars free. Dollars saved landseekers.

FIFTY Virginia farms. Eight to fifteen dollars per acre; land good; mild and beautiful climate. Write for catalog. Jeffries, Hester & Company, Chase City, Virginia.

CASH for property, any kind, anywhere. If you want to buy, sell or exchange, address Northwestern Business Agency, Minneapolis, Minnesota.

WHY INVEST in Western lands, when \$10 to \$15 buys Central Wisconsin lands. Badger State Land Co., Madison, Wisconsin.

FARM BARGAIN—Fine, improved 217 acres, 2 1/2 miles from town. For information, write Webster Bros., Riverside, Iowa.

FOR THE BEST bargains in Hand, Hyde or Hughes County lands, write or see J. C. McLove, Miller, South Dakota.

be the fault of the trees that they are barren and no one proposes to cut them down. If we of the human race were cut down when failing to make good under adverse conditions, then none of us would reach old age.

If my observation is correct, there are two kinds of socialists, those who preach socialism and those who practice it. Of the latter class none are living. Personal ownership is the natural incentive to personal endeavor. And he who lacks the incentive to personal endeavor is below par.

One of the best small things invented of late is the hard oil method of lubrication. It lasts so much longer, and the way it is applied and held where it belongs prevents dust and mud from getting into the bearings, and so the life of the machine is prolonged. It is seldom the framework of agricultural machinery which fails; it is the wearing parts—the shafts and boxes. If kept oiled and the nuts drawn tight there will be three or four times as much endurance and usefulness than if allowed to work loose or run dry.

And by the way, no matter what particular style of buggy or surrey is bought, make sure of one thing,—that it has long distance axles. They run so much longer without oiling and the sand is kept from getting in to cut out the boxes and grind off the axles.

And do not leave carriages out exposed to the weather. Do not put them under open sheds. Do not leave the carriage house doors open. Do not let the sun shine bright through the windows. The life of the varnish depends upon its protection from sunlight. Keep the interior of the carriage house in twilight.

REAL ESTATE.

COLORADO FARMS. If you want western land, may I explain opportunities in northeast Colorado, to invest in either irrigated or non-irrigated wild land, or improved farms. Upon the ground, experienced expertly in every detail of the land trade, I am in position to aid a buyer by acting (if so required) exclusively in his interest to secure for him a bargain in land. I refer by special permission to First National Bank, Sterling, Colorado. For information address, H. A. Clapp, Sterling, Colorado.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

TEN THOUSAND acres of the choicest land in the world, selling for ten dollars per acre and upward, backed by the grandest guarantee ever offered humanity—fruit, grain, vegetables and stock; health, wealth, churches, schools and society. Write today for literature and maps. O'Hanlon Land Company, Pierre, South Dakota.

SOUTH DAKOTA corn and alfalfa lands. The rush is on for Stanley County. Buy lands near the new railroad and double your money in the next year. 20,000 acres to select from; \$10 to \$15 per acre. Call or write Felland Realty Company, 531 Palace Bldg., Minneapolis, Minnesota.

KANSAS FARM for sale. 320 acres nice land; 4 room house; 60 acres pasture and hay land; balance in cultivation. Possession can be given of the buildings at once. 1/2 of crop to purchaser. Price \$40 per acre. Write for list. V. E. Niquette, Salina, Kansas.

ARE YOU LOOKING for a home? If so, let me mail you descriptive matter about my Stanley Co. lands. Price and terms reasonable. A few snaps at \$15 and \$17 per acre. Too good to last; write today. C. C. Coverston, Cottonwood, South Dakota.

NOTICE TO FARMERS and investors: We are selling the select 160 and 320 acre tracts of farm land within 15 miles of Trebo, Lyman county, South Dakota. Only prime land handled. Write or call at office in Presho. Fenton & Gannon.

FOR SALE by owner, one of the best improved 1/2 sections in the state. Schoolhouse on place. Located 1 1/2 miles south of Webster, South Dakota. If interested, write for particulars. Price \$75 per acre. W. F. Steffen, Webster, South Dakota.

MINNESOTA has 1,000,000 acres open for homestead entry. Offers choice lands and farm employment. Write for literature and full information. State Board of Immigration, Room 223, State Capitol, St. Paul, Minnesota.

SOUTH DAKOTA land is making good. We have land in the famous new county of Stanley, for sale at \$10 to \$25 per acre. One crop pays for the land. Write for list and circular. Skrove Bros. Land Co., Kadoka, South Dakota.

FOR CENTRAL South Dakota lands, write to David T. Jekyll, Highmore, South Dakota. Hyde, Hughes and Sully counties are the best fields for investment in the state today. Correspondence solicited.

CHEAPEST FARM in Kansas. 480 acres, 2 miles Humboldt, Allen County. Black soil, level, no rock. Free natural gas; improved. Write for description and photos. Iola Land Company, Iola, Kansas.

148 ACRES—10 room, nicely finished house; timber and wood; 4 barns; hog house and granary; apples, pears and grapes; land lies good; \$3,000, 1/2 cash. Hall's Farm Agency, Owego, Tioga Co., N. Y.

SOUTHERN Minnesota lands. If you want a good farm, a good home, a profitable investment, come to Aiden, Minnesota and see our bargains, or write your wants. Ralph O. Olson, Aiden, Minn.

NORTH DAKOTA LANDS on ten years' time, crop payments at 6 per cent interest. Stutsman Co. Rich soil. Map and particulars on request. Address Frank L. Kellogg, Cleveland, North Dakota.

HEART RIVER Valley lands, Morton County, North Dakota, on the new Northern Pacific extension. Write for free booklet and map. North Star Investment Co., Winthrop, Minnesota.

BEST STOCK RANCH on earth, sixteen hundred acres; for quick sale, nine dollars per acre. Many other snaps in real estate. Eureka Land & Loan Co., Midland, South Dakota.

A BARGAIN—4 well improved, well located farms near county seat. One 200, 160, one 80, one 40 acres. Price, \$15 per acre. Address Dr. J. H. Molloy, Berryville, Arkansas.

SOUTH DAKOTA land in the gas, artesian and corn belt. Land that will make you money in farming or as investment. Allen Land Co., Harold, South Dakota.

EVERY MAN wants a home. Wm. Summerside & Co., choice farm lands and stock ranches a specialty. Real estate. Harold, South Dakota.

BARGAINS in South Dakota land. Exchanges made in land, city property, merchandise, live stock. C. C. Ward, Underwood, South Dakota.

YOU WANT South Dakota land. We have it. Write today your wants. Free description first mail. Eakin Gregg Land Co., Blunt, South Dakota.

FOR SALE—160 acres, 3 miles from railroad station; good soil guaranteed. For price and terms, write E. J. Quirk, Highmore, South Dakota.

LYMAN COUNTY SNAPS—15,000 acres of choice lands for sale at \$15 per acre up. Write for particulars. A. T. Cretney, Vivian, South Dakota.

WRITE for my list of deeded land relinquishments and homesteads. Prices reasonable. Ira L. Hazleton, New Underwood, South Dakota.

WESTERN Stanley County. Write now for free list, maps and information. Live agents wanted. Bernau Land Company, Cottonwood, S. D.

FIRST CLASS farm mortgages for sale. Best security on earth. Stanley County Land Co., Incorporated, Cottonwood, South Dakota.

SOUTH DAKOTA land snap in the corn belt of state. Send for illustrated booklet mailed free. C. B. Powers, Pukwana, South Dakota.

LOCATE in the great winter wheat belt. Cottonwood Land Co., Cottonwood, South Dakota. Deeded lands and relinquishments.

WANTED—Money to loan on South Dakota lands. Lands for sale. Write Quinn Land & Loan Co., Quinn, South Dakota.

FIVE improved farms for sale in Grant County, Minnesota. Write for information. B. M. Houske, Ashby, Minnesota.

WRITE US for our list of cheap land in Hyde, Hughes and Sully counties. Stewart Bros., Harrold, South Dakota.

CASH for your property, less than 90 days. Real Estate Salesmen, Lincoln, Nebraska, 219 Funke.

FOR BARGAINS in Central South Dakota land, address The Kelsor Land Co., Highmore, S. D.

KANSAS FARMS, one fifth down, balance time Dillon & Woodward, Dili, Oklahoma.

REAL ESTATE.

MONTANA LANDS that will produce 40 to 60 bushels winter wheat; 25 to 40 bushels spring wheat; oats often yield 100 per acre; all other small grains in proportion; corn, all grasses, vegetables, small fruits and apples make wonderful yields. This land is well adapted to stock raising and dairying, excellent pure water, from 10 to 30 feet; lignite coal free; price \$12.50 to \$25 per acre, one-third cash. Parties leave St. Paul each Tuesday. This is your opportunity; accept it now and get the choice land. Investigate; do it now. An absolutely safe and iron clad investment. Geo. Northrup, 216 New York Life Bldg., St. Paul, Minnesota.

240 ACRES one mile fr n county seat; heavy soil; 30 acres plowed; 100 acres meadow; cut 250 tons hay; balance pasture; all fenced; eight room house; barn holds 80 head of stock; other buildings; windmill. Forty dollars per acre. Terms. For further particulars concerning the above and other descriptions, write H. J. West, Foley, Minnesota.

POULTRY.

INOCULATION of chickens scientific. Occum cures, renders immune to cholera, white diarrhea, roup. Deaths reduced eighty per cent. Quarter inoculates fifty. Hancock Inoculator Co., Box C, Salem, Virginia.

WATTS' BARRED Plymouth Rocks. Eggs from stock scoring up to 92 1/2 points, and winners at Des Moines Poultry Show, 1908. Eggs, \$1.50 per 15; \$2.50 per 30. J. C. Watts, Berwick, Iowa.

EGGS from select pens of Partridge and Columbian Wyandottes, Buff Rocks, Houdans, S. S. Hamburgs, Blue Andalustians, \$1.50 per 15. A. Arends, Blairsburg, Iowa.

MAMMOTH Bronze turkey eggs from prize winners, \$3 per 10. Toulouse geese eggs, 20c. each. R. C. R. Red eggs at cut prices; circular. H. C. Bentzinger, Charleston, Iowa.

BARRED Plymouth Rocks; prize winning; large, excellent layers; quality and hatch guaranteed. Eggs, \$4.50, 100, or 5c. each. Mrs. Paulson, R. 5, Harlan, Iowa.

BLACK LANGSHANS—Large, thrifty, farm range eggs, 15 for \$1; 30 for \$1.75. Satisfaction guaranteed. Bert Randall, Stephens Store, Missouri.

EGGS from high-scoring Barred White and Buff Plymouth Rocks; 15 eggs, one dollar; 45 eggs, two dollars. A. Mathews, Mt. Union, Iowa.

ROSE COMB Brown Leghorns exclusively; farm range, prize winning stock. Eggs, 18, \$1; \$3.50 per 100. Chas. Applegate, Atton, Iowa.

BARRED ROCKS exclusively. Eggs from free range flock, \$1 per fifteen or \$5 per hundred. Asa Anderson, New London, Iowa.

ROSE COMB Rhode Island Reds; choice stock; farm range; eggs, 75 cts. per 15; \$4 per 100. Mrs. J. Holmgren, Rolfe, Iowa.

SILVER LACED Wyandotte eggs, \$1 for 15, \$5 per 100. Miss Julia Driscoll, Plainfield, Iowa.

HELP WANTED.

WANTED, MEN—To prepare for next railway mail, internal revenue, customs and postoffice examinations, \$50 to \$125 monthly. Annual vacations. Short hours. No "lay offs." Common education sufficient. Country and city residents equally eligible. Influence unnecessary. Over 15,000 appointments to be made this year. Write immediately for schedule showing dates and places of the coming examinations. Preparation free. Franklin Institute, Dept. S 25, Rochester, New York.

CIVIL SERVICE employees are paid well for easy work; examinations every month; expert advice; sample questions and booklet 804 describing positions and telling easiest and quickest way to secure them free. Write now. Washington Civil Service School, Washington, D. C.

WANTED—Motormen and conductors for street cars, firemen and brakemen for steam railways, \$50 to \$150 per month. Hundreds of vacancies. Write for particulars. American Standard Railway Institute, Kansas City, Missouri.

WANTED—A woman to do house work; steady place in country on a poultry farm. A child no objection. Particulars by correspondence. Address Box 162, Geary, Oklahoma.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination. Write for schedule and free trial lesson. Ozment, Dept. 42 R. St. Louis, Missouri.

RAILWAY MAIL clerks wanted. Average salary, \$1,100. Write immediately. Franklin Institute, Dept. S 25, Rochester, New York.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

PATENT secured or attorney's fee returned. Inventors handbook free. S. H. Evans, Washington, D. C.

CATTLE.

DOUBLE STANDARD Polled Durhams. Best Scotch breeding. "International" prospects; others cheaper. Herd officially tested. F. Bunker, Kilbourn, Wisconsin.

GUERNSEYS—"The Butter Breed"—choicest youngsters; both sexes; from official record and advanced registry ancestors. A. H. Hinman, Allenville, Wisconsin.

WANTED—Young, full blood Guernsey bull, eligible to register. P. J. Senninger, Toluca, Ill.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

SEEDS AND NURSERY STOCK.

PURE, sorted "Early Ohio" potatoes, 30c. King's, 25c. Bunker, grower, Kilbourn, Wisconsin.

ASPARAGUS roots for sale. The kind that is right. Will D. Quick, Ashton, Illinois.

KODAK.

KODAK your stock; send customers a picture. Kodaks, \$5 to \$35. A. Brownie, 2 1/2 x 3 1/2, with complete outfit, \$4. Catalog free. F. M. Alexander, 308, Atlantic, Iowa.

AGENTS WANTED.

FARMER AGENTS wanted to sell Malleable Hay Rack Brackets and Harvester Tongue-supports. Lucas Mfg. Co., Slater, Missouri.

POST CARDS.

30 FINE post cards, only 10c. Mostly birthdays; no trash. German American Post Card Co., Dept. 5, Burlington, Iowa.

DOGS.

COLLIES—Stud dogs, brood matrons, lots of puppies; must sell. Sunnybrae Kennels, Bloomington, Illinois.

MISCELLANEOUS.

PLANS DRAWN for modern dairy and farm buildings. Personal supervision in construction. Our monthly journal free. Buff Jersey, Monmouth, Ill.

LANDS AND HOMES FOR SALE

THE CALL OF THE CANADIAN WEST

THE last great call of opportunity in this old world. 10,000 settlers a week are stepping over the Canadian border—and we all know about the great future that is bound to be. I have lived in Western Canada for 21 years, and in Arcola district 9 years and know this is first-class land. Poor land is dear at any price. I don't handle poor land. My parents homesteaded poor land in 1889 and sold the 160 acres five years after for \$1,000 and others who came at the same time could have sold at from \$4,000 to \$7,000 any time. Don't make any mistake. There is plenty of good land in Western Canada at reasonable prices, but it's not all good. I have

45 HALF SECTIONS

of first-class improved land with good buildings for sale with 12,000 acres in crop right now and the wheat is up and the oats are now going in. I can sell you 160, 320, 480 or 640 acres as desired. The original owners will vacate this fall. I am not spending several thousand dollars trying to sell intelligent Iowa farmers gumbo, scrub, rocks, alkali or sand. This land is good black clay loam with clay subsoil and nice to work and the price is right. We got control before the rise in value. Since then we have had a new railway come in and daily connections made with Winnipeg and the Soo Line. In this small area of only 15x15 miles we have 4 towns and 2 railroad sidings, 7 churches, besides 7 school houses where church services are held every other Sunday, 7 post-offices, 15 national public schools and one high school, two competing lines of railway, 130,000 bushel elevator accommodation and one grist mill, coal at \$2.25 per ton, wood in timber reserve free, good water almost anywhere at from 20 to 35 feet. Arcola marketed 1,100,000 bushels of grain in one year. Over 30 of these half sections are only from 2 to 5 miles from market. We can prove to you that there isn't better buying for investment or for a home anywhere. You will get good value for every dollar and make a handsome profit before this crop is harvested. Remember we are in south-eastern Saskatchewan, only 40 miles north of international boundary. Round trip tickets only \$25. Write us at once. **THE COOK BROTHERS, ARCOLA, SASKATCHEWAN, CANADA, or R. H. Cook, 533 Utica Bldg., Des Moines, Iowa.**

Bellwood Farm For Sale

THE Bellwood Farm at Bellwood, Douglas Co., Wisconsin, on the N. P. Railway, 20 miles east of Superior and three miles from the famous Brule river, containing 1,080 acres of red and black loam. Over 80 acres cleared and cultivated; two-story house 28x32, basement, bath, closet, etc.; barn 50x56; store and office building; granary, chicken house, storehouse and blacksmith shop. The Bellwood railway station, 1000 ft. sidetrack, schoolhouse and three other small dwelling houses also located on the land. Three good wells of the best water; windmill; two trout streams running through the land; two miles of wire fence; five acres hog pasture, fenced in. The land that is not cleared is covered with mixed hardwood timber and grass. Good pasture all over the land. First-class location for stock or dairy farm, creamery and store. I have finished lumbering at this point, and will sell this place at a bargain. Price, \$16,000, will take small cash payment and balance to suit purchaser at 6%. If it looks too big for you, get some of your friends to club with you. There is enough land in this piece to make six men rich in a very few years if properly handled. I also have some smaller unimproved tracts for sale. **M. J. Bell, Bellwood, Wis., or Carl Lumber Co., Minneapolis, Minn.**

GOVERNMENT LAND FREE IN ROUTT COUNTY COLORADO

To secure good farmers, we tell you how to locate 160 acres of fine government land in Routt County, on Moffat Road, (Denver Northwestern & Pacific Railway). Big crops, pure water, good soil, fine climate and markets. Fine openings for investments and business. We have no land to sell, it's absolutely free from the government. Law allows you to return home for 6 months after filing. Write for free book, map and full information that tells how to get this land free. Address **W. F. JONES, General Traffic Manager, 704 Majestic Building, Denver, Colorado.**

Back to the Soil 50,000 ACRES In St. Louis and Carlton Counties MINNESOTA

NEAR fast growing cities of DULUTH and SUPERIOR. Splendid markets. Eighteen railroads. Soil fertile and well adapted to general farming, dairying and raising of garden truck. Price, \$8 to \$10 an acre. Easy terms. Lands are owned by this company, free of all incumbrances, and no reservations. Write for particulars and information. **Boston & Duluth Farm Land Co. No. 18 5th Ave. West, Duluth, Minn.**

CHEAP IOWA LANDS

WE have 297 acres of wild land in Osceola County, Iowa, to offer at \$50 an acre, three and a half miles from a good town. Fine, improved farms all around. One eighty is rough; the balance is good farm land, \$1,000 cash and easy terms on the balance at 5%. Here is a snap; won't last long.

J. G. Chrysler & Son, Lake Park, Ia.

WANT a good farm? Then come to Lyman Co. I am the man for you—**J. C. RUSSELL, Draper, Lyman County, South Dakota.** Why? Because I can sell you a good farm one and one-half mile from Draper; eighty-five acres under plow; all fenced; good well; nice little house. Price \$25, per acre; terms to suit. THIS IS A SNAP.

IOWA 320 ACRES

FOR SALE. Pocahontas county, 4½ miles county seat; thoroughly tilled; improved; health cause of selling. Write OWNER for full description and map. **B. S. ALLEN, LAURENS, IOWA.**

A FINE FARM IN THE FAMOUS RED RIVER VALLEY

This farm is located in Clay County, Minnesota, in the heart of the rich potato-growing district of the Red River Valley. The farmers in this locality are getting rich by combining the growing of seed potatoes (for which the soil is particularly adapted) with grain raising. This farm is located in an ideal farming country with prosperous farm homes all around it.

160 acres, located 7 miles southwest of Barnesville, a hustling city of 5,000 people. Only one mile from good school. Deep, rich, black loam soil, underlaid with clay. A small creek called the Buffalo River flows through the northwest corner of this farm, thus insuring perfect drainage. The land lies very gently rolling and is all tillable. There are 140 acres in crop and 20 acres in fenced pasture and meadow. Buildings consist of good house, barn and granary. Buildings worth \$2,000. This is a fine piece of land and will make a man an excellent home. Price \$42 per acre, good terms. This farm may be just what you are looking for—write for more information.

We own some of the finest improved quarter, half and section farms in the Red River Valley of North Dakota and Minnesota. We have an illustrated booklet descriptive of this rich farming country, which we will be glad to send you on request.

ELLSWORTH-JENKINS COMPANY, OWNERS, FARGO, NORTH DAKOTA.

SOUTH DAKOTA CORN LAND

Alfalfa and stock. We have a large lot of improved and raw land from \$20 to \$35 an acre on easy terms. Address **TOWNSEND LAND & LOAN CO., MURDO, SOUTH DAKOTA.**

SOUTH DAKOTA LAND in LYMAN COUNTY

The choicest of land; all kinds of grain raised; plenty of water. Prices range from \$15 to \$35 per acre. Write for Free Love-Carter Land & Loan Co.'s (Inc.) free price list, Kennebec, South Dakota.

BUY A HOME IN SUNNY SOUTH DAKOTA

We have choice bargains in farms and ranches. Write us for further information. **THE O'RIELLY LAND COMPANY, DRAPER, LYMAN COUNTY, SOUTH DAKOTA.**

SOUTH DAKOTA LAND

ARE you interested in South Dakota, the state that is leading all other states in the production of wealth per capita? If so, send for free literature on Brule County and South Dakota. No agents need apply. I sell direct to purchasers, who save from \$1 to \$5 per acre commission. **J. A. Stransky, Pukwana, S. D.**

Sully County, South Dakota

THE cheapest proven corn lands in the United States. Let us tell you all about it. Information and list free for the asking. Good water, good soil, good schools, good neighbors and no stone or gravel. New railroads now building. Splendid opportunities. **CLAUDE GARNER & CO., BLUNT, S. DAKOTA.**

Wheat and Flax Land in Montana

IN Dawson County; near railroads; plenty of rainfall; good water 12 to 30 feet; wheat yields 30 to 40 bu.; flax 20 bu. Every man who bought Dawson County land last year made money; sure to advance more. Send for our list now; \$15 to \$25 per acre. **MILLER & JORDEN, GLENDIVE, MONTANA.**

SOUTH DAKOTA LAND

BUY land in the western part of South Dakota, on the east slope of the Black Hills, where you are west of the hot winds, and where it rains. Here we have a fine climate, good water, plenty of timber, good soil, good markets, and grow fine crops each season. For further information, write or call on **THE WASTA LAND & LOAN COMPANY - WASTA, SOUTH DAKOTA.**

BUY LANDS IN EASTERN LYMAN COUNTY

WHERE corn, alfalfa, cattle and hogs are the money makers and small grains cannot be beaten. Price, \$15 to \$35 per acre. Large list of improved and unimproved lands for sale on liberal terms. For price list or information, address **THOS. F. MCGUIGAN, KENNEBEC, SOUTH DAKOTA.**

MUSSELSELL VALLEY MONTANA

GOOD farming land in the Musselshell Valley that will yield 35 to 40 bu. of wheat, 50 to 75 bu. of oats per acre, without irrigation. Several tracts to select from; \$7.50 to \$25 per acre, % cash, balance easy terms at 6%. Ample rainfall for past 10 years to produce big crops. Write for list and full particulars. Irrigated land if desired. Address **Fridley & Jenlzen, Bankers, Harlowton, Montana.**

A REAL BARGAIN

160 Acres of choice, heavy, black land, with clay subsoil. This land produces all kinds of crops, such as wheat, oats, rye, speltz, corn, alfalfa, potatoes, etc. The average rainfall for the past 10 years is 23 inches. Two years' crops pay for the land. \$3,000 buys the 160 acres; \$1,000 cash, bal. time. **L. W. Hagg, 340 N. Y. Life Bldg., Kansas City, Mo.**

BUY SOUTH DAKOTA LAND

A LARGE list of improved and unimproved Lyman County farm lands for sale. Good land from \$15 to \$25 per acre. For maps and description, write the **Murdo Mackenzie Land Co., Murdo, S. D.**

Lyman Co. Lands

A SNAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. **HAGLER LAND CO., PRESHO, S. DAK.**

JUDITH BASIN

Montana Farms

In this rich valley produce more grain per acre than any other section of the West.

Write today for our list, prices and full information.

F. J. ROBINSON, Manager, FARMERS' LAND CO., LEWISTOWN, MONTANA

Improved Kansas Farms

I OWN the following improved farms, all near Severy, Kan., that I will sell on a payment down and the balance on long time at low rate of interest: 80 acres at \$45 per acre, 160 acres at \$35 per acre and 320 acres at \$30 per acre. I am not a real estate dealer; simply own the land and want to sell it. If you are interested write or call and see the land. **M. J. BIDWELL, Severy, Kansas.**

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address **BERT I. WELD, SLAYTON, MINNESOTA.**

SUMNER COUNTY, KANSAS, FARMS

H. H. Stewart & Son, Wellington, Kansas.

WESTERN CANADA

What J. J. Hill, the Great Railroad Magnate, Says About Its Wheat-Producing Power

"The greatest need of this country (United States) in another generation or two will be the providing of homes for its people and producing sufficient for them. The days of our prominence as a wheat exporting country are gone. Canada is to be the great wheat country." **J. J. HILL.**

This great railroad magnate is taking advantage of the situation by extensive railway building to the wheat fields of Western Canada. Upwards of

125 Million Bushels of Wheat were harvested in 1909, and the average of the three provinces of Alberta, Saskatchewan and Manitoba will be upwards of 28 bu. per acre. Free homesteads of 160 acres, and adjoining pre-emption of 160 acres (at \$3 per acre), are to be had in the choicest districts. Schools, convenient climate, excellent soil, the very best, railways close at hand, building lumber cheap, fuel easy to get and reasonable in price, water easily procured, mixed farming a success. Write as to best place for settlement, settlers' low railway rates, descriptive illustrated "Last Best West" to Sup't of Immigration, Ottawa, Canada, or to the Canadian Government Agent.

W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.

30,000 ACRES

OF RICH FARMING LAND IN MONTANA

ADJACENT to railroads, comprising the famous "Seventy-nine" Ranch in the Musselshell river country. This rich land to be retailed to farmers and homeseekers at from \$7 to \$18 per acre. Many good quarters, all tillable land, \$11 to \$15 per acre. This is your chance to buy land that will produce 40 to 50 bushels of wheat per acre. Other small grain in proportion. Alfalfa, vegetables and fruit produce big crops. Plenty of water and coal. Now is your chance to buy good land cheap; ¼ cash, balance in three equal annual payments. Write me for free map showing location of land and full particulars. **S. O. Fletcher, Box 757, Billings, Mont.**

GALLATIN VALLEY MONTANA LANDS

WE have for sale a large list of splendid farms, improved and unimproved, irrigated and dry; close to church, school, town and railroad, in the oldest, most successful farm district in the Northwest. Climate good; no blizzards or cyclones. Ideal for small grains, sugar beets, potatoes, alfalfa, clover and timothy, apples and strawberries. Prices and terms reasonable. Literature sent on inquiry. **H. S. Buell Land Co., Bozeman, Montana.**

... BUY ...

South Dakota Land

KADOKA, STANLEY COUNTY.

RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gilt-edge farm mortgages for sale. For description, write

F. E. Reidinger Land Agency, Kadoka, S. D.

N. W. NORTH DAKOTA

\$10 TO \$40 PER ACRE LAND

IN the Famous Northwest North Dakota where you are close to railroad market and have the cream of our State soil for all kinds of small grains as well as vegetables of every description. Write me for my booklet. I guarantee you a "good investment" that will bring you big returns ranging from 25 to 100 per cent or more on the dollar. I speak all Scandinavian languages and promise you courteous and honest treatment.

O. A. HOUGE, WILLISTON, N. DAKOTA.

Mr. Farmer or Stockman

WE have a number of bargains in good farm or ranch propositions in Charles Mix county, the corn belt county of South Dakota at reasonable prices and terms. If interested, write

C. VANDERBOOM, Platte, South Dakota.

We Mean It!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

HOMESEEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address

The Allen Co., Investment Co., Longton, Kan.

WE HAVE UNDER OPTION CONTRACT

80 can sell at low prices three pieces of land in the Traunpauke Land District, Saskatchewan, Canada; one 160 acres; one 320 and one 640. Easy terms. Write today for details. **Hawkeye Real Estate & Invest. Co., Room 7, News Arcade, Des Moines, Iowa.**

CHEAP FARM LANDS

IN Western Nebraska and Colorado. Several snaps in homestead relinquishments. Come or write. **Nebraska Land Company, Sidney, Nebraska**

Iowa Lands For Sale in Howard county, \$50 to \$90 per acre. Large list on request. Address, **SPAULDING & O'DONNELL, Elma, Iowa.**

POULTRY

This department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

IN THE BREEDING SEASON.

To the Editor of The Homestead:

This is the season which must largely determine the success or failure of the poultryman. Success means much more than simply gathering the eggs and setting them under Biddy or in an incubator. Unless the eggs contain strong and vigorous germs, they will either fail to hatch, or give weak, anemic chicks, with little chance of growing to maturity, or, if they should do this, they will be of little value to their owners.

We must look well to the conditions and care of the hens which produce the eggs. To speak strictly, we must look back to previous generations as a factor in the problem. But leaving out this phase of the question, the hens we have at the present time, the prospective mothers of the splendid flock of chicks, every one of us hopes for, must receive consideration. Have they come out of severe winter conditions with good vitality, or are they weak and debilitated? If the latter, they must have plenty of appetizing, nourishing food, before they can produce chicks that will repay all their cost. If they are strong and in good condition, they must be kept so. For a hen in the flush of the spring laying season finds in continuous egg production tremendous drafts upon the resources of her system. Some people have the idea that if the hens are on free range when tender vegetation is springing up, and bugs and worms are plentiful, they can pick up nearly all the food they require. This is a serious mistake. Unless there are grain piles within their reach, or scattered grain where other stock is fed, they will suffer if not fed regularly. Especially is it important that pure, fresh water should be always at hand. The water troughs or vessels should be frequently cleaned and kept in the shade, as the hot sun makes the drink actually poisonous to the fowls. Sanitary quarters are fully as necessary as at other seasons. In brief, everything that helps to keep the flock in prime condition is essential to the best results.

Penned birds need very careful attention. Since the only way for a farmer or small poultrykeeper to raise the quality of his flock is by making a pen of his best male bird and some of the hens especially fitted to mate with him, using the resulting eggs for hatching, a few pointers along this line may be helpful. Feed regularly a well balanced ration, arranging, if possible, so that the birds will have to scratch to find the grain. Exercise is indispensable to the health of all hens, and when we confine individuals in restricted quarters, we must in some way induce them to take this exercise. Green food must be given in liberal quantities, and meat food in some form. Shade should also be provided, and everything that is possible done for their comfort and well being.

We cannot expect to get good, hatchable eggs from fowls that are too fat, nor from starved hens. Especially would we warn against using eggs for hatching from flocks that have had disease, such as roup, bowel troubles, gapes, liver ailments, and the like. Since the male bird is half the flock, he must be selected with care. See that those used for breeding are in good health, vigorous, in fair flesh, with bright, red combs, and an alert, vivacious manner.

As regards the feed, a variety should be sought. Birds fed on one kind of grain exclusively will not lay as satisfactory eggs as those that have been fed for several sorts. War must be waged against all insect pests. So many good and practical methods have been found, that there is really no excuse for harboring these drains upon our poultry income.

So much has been written regard-

ing the selection of eggs for hatching, that it is not necessary to dwell upon this point. One common mistake, however, should be noticed. The hens that lay only in the spring, and are drones the rest of the year, lay larger, handsomer eggs than the hen that keeps steadily at it. Most people select these fine-looking eggs for setting, thinking they are thereby insuring better, larger chicks than from the more common looking eggs. By this means they are hatching all the time from their poorest layers, a practice which cannot be otherwise than detrimental to the laying qualities of the future flock. The well-shaped, medium sized eggs will, in nine cases out of ten, be the best for results in producing the coming layers.

Of course we all know that we should reject all ill-shaped, ridged, uneven, chalky shells, or those mottled. It will pay to examine the eggs intended for hatching by holding them where a ray of strong sunlight will strike them. Many eggs which look all right will appear under this test as if the shells were finely cracked all over. They will not hatch. Also, if the air cell can be seen extending partly down the side of the egg, there is no hope of a chick. Sometimes the question is asked, How do we know but some of those we reject may have chick germs which will result in a good bird? We do not always know, of course, but repeated experiment and experience have shown that the chances with off-shaped eggs, and other imperfections are not worth risking. A friend of the writer's, whose "luck" in hatching was considered almost phenomenal by her neighbors, determined, one year, at the close of the hatching season, that she would experiment along this line. So she filled her incubator with crooked, twisted, ridged, queer-shaped eggs she had culled, and awaited developments. Such a lot of freaks, cripples, and monstrosities as came forth! She said that if she could ever be forgiven for being the means of bringing such a lot of creatures into the world,

she would never again be guilty of such an experiment. The only thing to do was to put them out of their misery.

If ever neglect is inexcusable, it is in the breeding season. No item of care and attention is too small to be considered. Mrs. S. B. Titterington.

CARE OF AN INCUBATOR.

To the Editor of The Homestead:

First get a good one. I have tried several different makes and find that it is easier to get a good hatch with a good incubator than with a poor one. They also save considerable time, as it takes no longer to run the machine than it does to take care of one old hen, and besides you always know where it is. If the hen gets away it is hard telling where and when you will get hold of her again and you may have to chase her half a day. You also get earlier chicks and a bigger bunch at the same time, and when they are all the same age it takes no longer to care for 100 than for five. My last incubator has been kept in both bedroom and sitting room and I have had good hatches every time. My best hatch was 135 chicks out of 150 eggs and at no time have I had less than 110. If it were not for the little folks I would keep it in my dining room. Any place that is healthy for a person to live in is a good place for the machine. I do not favor the cellar as very few of them are dry enough to secure good results. My neighbor has a 200-egg machine which they kept in the cellar one year with very poor results. They were discouraged and were about to buy another machine, but decided to run it in their dining room and the result was that they got 140 chicks out of the 200 eggs put in. They ran it in just the same way upstairs as they had in the cellar and got 100 more chicks. Their cellar was fresh and clean but it is not the place for an incubator.

With a new machine the lamp should be filled half full. I always put in just enough to run twelve hours. Of course, when full it will run twenty-four hours, but I prefer the other way as there is no danger of the oil heating. For every machine full boil your lamp burner in lye water for ten minutes or so and I do not believe there will be any danger in running it in the house. Just be careful to keep the burner clean, and trim once a day. Screw the lamp up and down to regulate the heat to some extent. The flame need

A GOOD BROODER AT ACTUAL HALF PRICE

During this month we will send every purchaser of a

SURE HATCH BONDED INCUBATOR

one of our Brooders at actual Half Price. Every Sure Hatch Incubator is positively guaranteed to give satisfaction, and the guarantee is backed by a \$1,000,000 Surety Bond issued by the Bankers Surety Company of Cleveland, O. One of these bonds is actually placed in the hands of every purchaser of a Sure Hatch Incubator. 60 days free trial. If you want a good brooder for only Half Price, get in your order at once for this offer holds good only a short time.

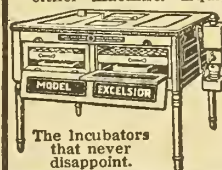
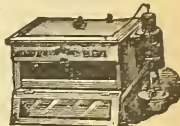
Sure Hatch Incubator Co.,

Box 16
FREMONT, NEBR.



Hatch Chickens By Steam

Make the hatching of your 1910 chicks sure and easy. Stahl's Excelsior or Wooden Hen Incubators are not experiments. They are so sure that a fertile egg means a live, healthy chick. You get real incubator value in either machine. Equip



The Incubators that never disappoint.

early, and grow and market your early-hatched broilers when prices are high. Early money is the biggest.

Write to-day for free catalog.

GEO. H. STAHL,
Box 7 U Quincy, Ill.

Your Name Will Get \$2 Eggs For 50 Cents Per Sitting

I will sell 2 sittings of full blood Single Comb Brown or White Leghorn Eggs for \$1 for the 2 sittings. Not less than 2 sittings sold. Eggs by the 100, \$5. Full blood White or Banded Plymouth Rock or Rhode Island Reds or Silver or White Wyandotte or W. Orpington or Rose Comb Brown Leghorn or Single Comb Black Minorca Eggs, \$1 per sitting; by the 100, \$7. Large Bronze or White Holland Turkey Eggs, \$3 for 10 Eggs. Large White Pekin Duck Eggs, \$1 for 10 Eggs. 100 egg Old Trusty Incubator, and 100 Chick Brooder, delivered at your R. R. station, both for \$14 east of the Rocky Mountains. This is a rare chance to get a start of extra fine stock and a good incubator. Send Post Office order on St. Louis and have your orders booked early.

W. F. CHAMBERLAIN, (The Perfect Chick Feed Man)
KIRKWOOD, St. Louis County, Mo.

BIG PROFITS

result when chickens are free of mites and lice. Use

AVENARIUS CARBOLINEUM (REG.)

for cleaning poultry houses once a year. Write for circulars.

Carbolineum Wood-Preserving Co.,
Dep't 97 Milwaukee, Wis.



Thrifty Chicks Make Paying Fowls

That's reason and common sense. What the chick is, the fowl will likely be. The important matter, then, for every poultry raiser is to give the growing chickens a good start. Not at all a difficult thing to do, either, if you get Dr. Hess Poultry Pan-a-ce-a to help you. This is a Tonic to mix once a day in the soft feed—a system known among poultry men as "The Dr. Hess Idea" of feeding. Only a little of it is needed, but its effect is surprising. You can almost see and measure the daily development of the little peepers, from tender weaklings to vigorous, growing young fowls.

DR. HESS Poultry PAN-A-CE-A

Will carry them on from the growing stage to early maturity and pay you abundantly for the little extra attention you have given them. It cures Gapes, Cholera, Roup, etc.; it makes the pullets lay early and keep it up the whole season round, because it acts on the digestive organs of the hen and gives her power to assimilate large quantities of food and turn it into eggs. In the same way it helps to fatten the cockerels and other birds you wish to sell. It gives strength to pass the moulting season and good health always. A penny's worth feeds 30 fowls one day. Sold on a written guarantee.

1½ lbs. 25c; mail or express 40c.
5 lbs. 60c, 12 lbs. \$1.25, 25 lb. \$2.50.
Except in Canada and extreme West and South.
DR. HESS & CLARK, Ashland, Ohio.

Send 2c for Dr. Hess 48 page poultry book, free.

DR. HESS STOCK FOOD

Is a guaranteed animal tonic, formulated by an experienced live stock farmer (Dr. Hess, M.D., D.V.S.) for the sole purpose of bringing about an economical system of feeding. It acts on the digestive organs, keeps them healthy and active and relieves the minor stock ailments. The animal receiving it can consume and put to use a large ration. Thus it helps the cow to give more milk and the steer, sheep or hog to fatten quicker. No live stock owner can afford to do without Dr. Hess Stock Food. Fed twice a day in small doses. Sold on a written guarantee.

100 lbs. \$5.00; 25 lb. \$1.60, except in Canada and Extreme West and South. Smaller quantities at a slight advance. Send 2c for Dr. Hess Stock Book, free.

INSTANT LOUSE KILLER KILLS LICE

not be as big in warm weather as in cold. Common sense tells us that and we will learn it by experience, too. Get the machine up to 102 degrees with the thermometer lying in tray on paper. Then put in the eggs, but do not get excited because the eggs do not get warm for several hours; they will not rot. Try to keep the temperature at 102 to 103 the first week; 103 to 104 the last half gives a better hatch with brown eggs, but it is claimed that with white, thin-shelled eggs one degree lower gives a better hatch. I have the Plymouth Rocks and they can stand 103 to 104. If it seems dry in the machine when the eggs begin to pip, sprinkle them with a little lukewarm water and turn no more. Keep door closed as much as possible and keep heat up to 104, thermometer lying on top of eggs. Leave chicks in until they are good and dry. Be sure to scrub out your machine every time, using lye and soap and a few drops of carbolic acid; wash thoroughly all over the inside, trays and all, and leave machine open to dry out. A foul-smelling machine causes bowel trouble.

Mrs. Paulson.

ROUP IN ITS MOST VIRULENT FORM.

To the Editor of The Homestead:

The following communication has been received from a Missouri subscriber:

I would like a little information as to what ails my fowls. They first sneeze, the head and cheek becomes swollen and the eyes discharge a watery substance. Some have even lost their sight in one eye. I have been using gum camphor in the drinking water. Their feed consists of Indian corn, kafir corn, milk, both sweet and sour, and they have plenty of fresh water and free range of the farm. Their dust bath consists of wood ashes, saturated with Persian insect powder.

This is roup in its most virulent form. Generally speaking, I do not recommend treatment of roup, especially where it is so virulent that the head swells and pus forms in the cheek. It is seldom that a fowl is completely cured. Even though apparently recovered she may yet transmit it to her offspring. In the treatment of such cases I would divide into three classes. Those that show no symptoms should be put in their original quarters by themselves. These we will call lot 1. For those only slightly affected (lot 2) I would have a second place, and the remaining ones (lot 3) I would put in a comfortable dry place by themselves. I would use a very rigid treatment for lot 3, lancing all those having the swollen cheek, so as to let out all pus, then wash the wound with a 2 per cent solution of carbolic acid, and every hour or two give them a teaspoonful of the following mixture: One pint warm water, one five-grain powder of permanganate of potassium, one two-grain powder of sulphate of quinine, ten drops of aconite, using judgment as the fowl recovers. In extremely severe cases you may double the dose for a few hours, but care should be exercised in using this mixture, as the aconite is deadly poison.

So rigid a treatment is not necessary for lot 2. Simply wash out their mouth and nostrils (be sure the nostrils are kept clean) with the same carbolic solution and use the Douglas mixture in their drinking water. For lot 1, use only the Douglas mixture in their drinking water and keep a watchful eye on any new cases that may appear.

If roup is suspected at any time it

is advisable to feed liberally on finely chopped onions, sprinkling well with cayenne pepper. Disinfect all yards and runs with either the Douglas mixture or the 2 per cent solution of carbolic acid. Feed moderately on cooked food for a time, when a whole grain diet can be gradually interspersed. I would further say that in nearly all cases, poorly ventilated quarters is the cause, or rather a factor. Not that poor ventilation breeds roup, but it creates conditions that cause the fowls to become easy victims to weather changes. The writer has been called many times to assist in such troubles, and it almost takes their breath when I advise more open air, but in all cases a ready response was the reward. That is one great difficulty with many in the care of their fowls. They keep their fowls closed up in improvised filthy quarters, and the result is that their systems become saturated with poison. This makes them very susceptible to colds, resulting in roup, and in the treatment of fowls so saturated, a ready response is not realized.

C. E. Matteson.

HOW TO SAVE INCUBATOR CHICKS.

Dear Editor:—I have been in the poultry business eighteen years and have lost thousands of incubator chicks with bowel trouble. Having found a remedy I want to tell others through your columns. I saw Walker's Roup and Cholera Remedy highly recommended, so sent fifty cents to the Walker Remedy Co., Dept. U. 11, Lamoni, Iowa, and received a package postpaid. I took off a hatch of 100 chicks March 10th and gave them the medicine occasionally. By April 15th I had lost only four and the rest are all doing fine and nearly feathered. I also saved a pen of valuable R. R. chicks that were weak and droopy.

I find the remedy most valuable for incubator chicks—it prevents bowel trouble and is a fine tonic. I never had chicks develop as rapidly.

Mrs. I. B. Geiger.

Ida Grove, Iowa.

POINTERS.

—Mrs. John A. Miller, of Creston, Iowa, is quoting prices on Single Comb Buff Orpington eggs from pure-bred stock in her advertisement that appears on page 21.

—Mrs. S. M. Thompson, breeder of Barred Plymouth Rocks, at Birmingham, Iowa, is making special prices on eggs from that variety for the months of May and June. Read her advertisement that appears on page 21 of this issue.

—Mrs. Maude Turck, of Newton, Iowa, advertises Single Comb Rhode Island Red eggs from high-scoring stock, on this page. Mrs. Turck issues a circular which gives descriptions of her two grand pens mated for this season's eggs. This circular is sent free. Write for it to the address named.

—Mrs. L. Mather, of Clarksville, Iowa, in furnishing change for her Rose Comb Brown Leghorn advertisement that appears on page 21, writes: "My eggs are hatching fine and for the rest of the season I will sell from my flock, that have farm range, at reduced prices. A pleased customer is better than a big profit."

—Our friends who are interested in Scotch Collie dogs should read the advertisement of Mr. C. H. Drake, of Hazleton, Iowa, which may be found on this page. Mr. Drake, wishing to direct his entire attention to other matters, has decided to close out his Collies and for that reason will sell choice pups while they last at the very low price of \$6 each.

—Mrs. C. W. Bryant, of Orchard, Iowa, who has been advertising White Wyandotte eggs at different times, writes us that she is still able to furnish plenty of eggs and that for the remainder of the season she is offering the extraordinary low prices of seventy-five cents for fifteen, or \$1.25 for thirty. These are bargain prices that our readers should take advantage of.

—Readers of The Homestead who are in search of a breed of poultry which fulfills all the requirements of the utility fowl, and those which belong to strains which have been successful in the best of prize rings, should read the advertisement of Messrs. C. & C. T. Van Lint, of Pella, Iowa, which appears on page 21. These gentlemen devote their entire attention to poultry lines to this one breed. They believe that a utility fowl should have the full thrift, health and vitality that may only be secured through wide range. The proof that their manner of keeping fowls is correct is best demonstrated by the fact that at the Iowa State Poultry shows and other high-class exhibitions their fowls have been most prominent winners. They are now offering eggs for sale at reasonable prices. The Homestead commends

WYANDOTTES.

White Wyandotte Eggs

Balance of season, 75c. for 15; \$4 for 100.

Thirty choice White Wyandotte hens, \$1 each.

GEO. W. LIVINGSTON, MONROE, IA.

WHITE WYANDOTTE EGGS

FROM stay-white kind. Our birds are absolutely free from brass; good eyes and comb; very large, good shape; best of laying strain; eggs, \$1.50 per 15; \$2.25 per 30; \$6 per 100. Guarantee 75% to hatch or will replace at ½ price. A. J. Podendorf, Logan, Ia.

CHALKY WYANDOTTES

We pay express. Circular free. CEDAR LAWN POULTRY AND STOCK FARM, Fairfield, Neb.

WHITE WYANDOTTE EGGS

FROM best matings we ever owned, at \$1.50 per 15 and \$2.75 per 30. Satisfaction guaranteed. W. S. Gregory, Keota, Ia. "Roselawn Farm," Route 2.

WHITE Wyandottes of quality. This proves it. Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank. J. M. Erichson, Slater, Ia.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3.15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

WYANDOTTES

White, Buff, Golden, S. Laced eggs, 15, \$1.50; 30, \$2.50; 50, \$3.50; 100, \$6. A. L. Anderson, Indianola, Iowa.

White Wyandottes Exclusively. Eggs from two pens scoring from 92 to 94% by Todd. Pen 1, \$1.25 per 15; pen 2, \$1 per 15; Flock, 75c per 15. I. J. HAY, MINGO, IOWA.

White Wyandottes Bred from stock scoring to 93% pts.; fancy and utility combined; mated to Dustin and White Quill males. Eggs 100, \$4; 50, \$2.50. Mrs. C. A. Robinson, Griswold, Iowa.

Silver Laced Wyandottes Utility flocks of choice young birds at bargain prices. Send for list of offerings. Eggs for hatching, \$1 for 15. W. B. Lloyd, Kimmunity, Ill.

SILVER WYANDOTTES

Eggs, 15 for \$1; 40 for \$2; 100 for \$4. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

W. Wyandottes Farm range, prize-winning stock. Eggs, \$1 for 15, \$1.75 for 30. Address E. A. Smith, Route 8, Decorah, Iowa.

White Wyandottes exclusively. Eggs from choice stock, \$4 per 100. Address, W. B. Danforth, Little Cedar, Iowa.

Buff Wyandotte Eggs from choice, selected stock. Incubator orders filled on short notice. Geo. M. Deyoe, Mason City, Iowa.

DUSTON WHITE WYANDOTTE EGGS exclusively. \$1 per 15; \$4 per 100. Blocky stay, white kind. Address, Mrs. F. O. Elliot, Kent, Iowa.

Silver Laced Wyandotte eggs, \$1 per 15; \$4 per 100. Farm range. Satisfaction guaranteed. R. Palmatier & Son, Greene, Iowa.

For Sale S. L. Wyandotte eggs for hatching, \$4 per 100, or 65 cents per 15. Write to CHAS. W. FARIS, IOWA FALLS, IOWA.

Silver Laced Wyandotte eggs for sale, from good birds. Prices reasonable. Write for circulars. S. R. Young, Greenville, Iowa.

BUFF WYANDOTTE CATALOG FREE. Illinois state winners; eggs, \$1.50 and \$3 per 15. J. S. WATSON, VAIL, IOWA.

Buff Wyandotte Eggs from winners at Des Moines, Iowa, State Fair and State Show. A. E. Goodman, Indianola, Iowa.

WHITE WYANDOTTE, standard bred, good in size, color and shape. Eggs \$1 for 15, \$1.75 for 30. Address Johnson Allen, Earlville, Iowa.

Buff Wyandottes Eggs \$1 per sitting; \$2.50 per 40; \$5, 100. Address MRS. GRANT DAVIDSON, Corwith, Iowa.

Silver Laced Wyandotte eggs for sale, from choice, pure-bred stock cheap remainder of season. Mrs. J. W. Lowe, Clarksville, Ia.

Silver Laced Wyandotte Eggs from choice farm range stock, \$1 per 15; \$4 per 100. E. O. Dyvig, Stanhope, Iowa.

them not only for the character of the stock they sell, but as business men with whom it is a pleasure to deal.

—Messrs. R. Palmatier & Son, breeders of Silver Laced Wyandotte chickens, at Greene, Iowa, whose advertisement of eggs for sale, appears on this page, write us, saying: "We have not had a dissatisfied customer this year. If we have they have not written us. Our early customers are writing back saying they were pleased with the eggs and enclosing other orders."

—Mr. E. S. Dyas, of Bellevue, Iowa, whose advertisement of White Wyandotte and Pekin duck eggs has been a permanent feature on page 21, writes under date of April 24th saying: "The Homestead has done well for me and in fact has been the only business getter. Anyone wanting to start in White Wyandottes or Pekin ducks may secure from us genuine bargains in eggs or stock. We have high-class pens for sale. Our Pekin ducks eggs are supplied from two unrelated pens of birds scoring up to 98. Eggs tested so far have proven 100 per cent fertile."

—Mr. E. A. Kauffman, whose advertisement of Single Comb Brown Leghorns and Indian Runner ducks will be found on page 21, writes as follows: "We are offering exceptional values in eggs for hatching from Single Comb Brown Leghorns, Houdans and Indian Runner ducks. Our selected yard of Single Comb Brown Leghorns contains about forty hens, the cream of our flock of over 300. To them are mated three Warnock strain cockerels that scored 92 to 93 points. We have nothing but well-bred birds in our Houdan yard and have lately added a first-prize-winning bird at the Iowa State Show, at Fairfield, Iowa, in 1909."

RHODE ISLAND REDS.

S. C. Rhode Island Reds

TOMPKINS' strain. America's finest. Large, long-bodied, vigorous birds. Red to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$3 per 100. Circular free.

R. H. DE VAULT, BLOOMFIELD, IOWA.

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15 eggs \$1; 100, \$5. E. E. HEALY - BEDFORD, IOWA.

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Thompson's Ringlet Barred Rocks, S. C. Rhode Island Reds, Indian Runner ducks. Price of eggs, \$1 per 15; \$4 per hundred. Address Mrs. C. H. Matteson, Decatur City, Iowa.

EGGS From select yards of Single Comb Brown Leghorns and Houdans; 15, \$1.50; range flock Leghorns, 30, \$1; 100, \$3; Indian Runner ducks, 13, \$1; 100, \$6. E. A. Kauffman, Lockridge, Iowa.

EGGS R. I. Red, W. Orpington, S. L. Wyandotte, all Rose C. Pekin and Indian Runner ducks, all bred for size and egg production. Send for circular. P. F. Smith, Montezuma, Ia.

S. C. B. Leghorn Eggs \$4 per 100; \$7 per 200. Mammoth Pekin duck eggs, \$6 per 100; \$11 per 200. John M. Hall, Williams, Iowa.

45 BREEDS Pure-bred chickens, ducks, geese, turkeys. Incubator catalog free. H. H. Hiniker, Dept. 5, Mankato, Minn.

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SILVER Laced Wyandottes; eggs \$1.50 per 15; \$5 per 100; Pekin ducks, \$1 per 11. Mrs. F. R. McLaughlin, Manning, Ia.

S. C. White Leghorn eggs at \$1 per sitting or \$4 per 100 and White Holland turkey eggs \$2 per 9. Address, John C. Miller, Harlan, Iowa.

S. C. R. I. Reds and S. C. Buff Orpington eggs, \$1 per 15; \$2.50 per 50. Indian Runner duck eggs, \$1.50 per 15. Address H. C. Newbury, Bristow, Iowa.

EGGS for hatching from leading varieties of chickens, ducks, geese, turkeys. Write for catalogs. Ervin & J. W. Tretton, Grafton, Iowa.

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Barred P. Rocks and Single Comb Brown Leghorn eggs, 15, \$1.25; 30 \$2; 50, \$2.50; 100, \$4.50. J. A. PENN, Alta, Iowa.

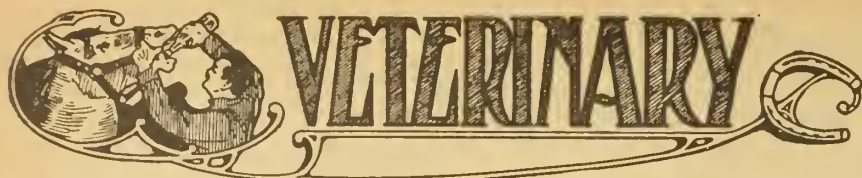
WHITE Faced Black Spanish and Single Combed Black Minorcas. Eggs for hatching. \$1.25 per 13. Peter H. Kurtz, Pleasant Plain, Iowa.

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FOR SALE—R. I. Red, Embden



PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

INDIGESTION.

I have an old gray horse weighing about 1,200 pounds, about fifteen or eighteen years old, that has been ailing since some time in September. I bought him some stock food, but it did no good; later I got some stock tonic which at first helped him. That was about the middle of December. He eats almost anything; I feed him corn and oats, about three quarts to the feed three times per day, also potatoes and yellow carrots. I let him run out now. The hay is wild red top. He is shedding his hair and his teeth are all right. He used to be a good worker, lively in action and is fairly lively yet, but seems to be weak. When I work him, even at light work, he quivers in the flanks on both sides and it seems to lame him in the hind parts and is not lame from kidneys. His hind legs and sheath used to swell quite a lot. Sheath is somewhat swollen now. He lies down quite frequently. It is my opinion there is something wrong inwardly. It seems since I turned him out to pick on the grass he is not doing quite so well as before. He seems to get lamest in right hind leg. When I pull him a little he holds that leg up and then changes to the left, but holds the right one up the most. His hide is quite loose and he is quite poor.

Feed oats, bran and hay. Keep him off grass. Do not feed carrots or corn. Allow free access to rock salt. Reduce the grain ration one-third at first and increase as he does better. Give him half an ounce of Fowler's solution of arsenic night and morning. Work him lightly or exercise fully every day. He should have a box stall in stable.

HEAVES.

I have a bay Shire mare coming seven years old that I got last winter thinking I would raise some good colts. I suspected she had heaves and I noticed her cough some and thought she did not breathe right, but the man insisted she was all right. She has been getting worse all the time; some days she stands work all right and then on hot days she will pant so hard she can't do much and now she coughs nearly all the time. There is a rattling that seems to be in the air passages of the head, and this rattling cough is what seems to affect her so much. I fed one box of heave powder and it did no good. I have fed her some oil of tar, which I believe caused her to cough up twice a little livery-looking matter. I was told if I kept giving her oil of tar it would cut her lungs and kill her. She eats well except when she pants so hard. I do not think it is heaves. I will have to work her as long as she is able, as I need her to make a team. She keeps up in flesh pretty well, considering her condition. Do you think there is any help for her?

The disease is incurable, but the distress may be relieved by feeding her on grass in summer and wet oat straw in winter in preference to hay. Feed no bulky food at noon. Three times a day let her drink a pailful of water made blue with Bengal indigo. Make the water more blue than for washing purposes. Starve her to take this blue water if found necessary. If that does not avail give her a half ounce of Fowler's solution of arsenic twice a day and then three times a day after the first week. Do not let her work soon after a meal.

BONY GROWTH.

I have a gray mare colt two years old, weight 1,050 pounds, that has a queer growth on the right side of her head just below the eye. I first noticed it three weeks ago. It is about the size of a small goose egg. She also breathes hard most of the time, and it sounds like someone snoring. I first noticed this last August and thought it was a bad cold. She has no swelling that I can find. I have given no treatment; feed her eight ears of good corn twice a day and good timothy hay. She gets plenty of exercise and eats well and feels all right. Please give cause and treatment.

Often such enlargements are associated with eruption of molar teeth and tend to be re-absorbed as colt matures. In other cases they indicate "big head" (osteoporosis), and that is incurable. The fact that the breathing is affected would lead us to suspect that the latter disease is present. Have a graduate veterinarian make an examination, as he may find it possible to relieve the condition by trephining the sinuses of the skull. If

he is unable to help by such means he may decide to blister the enlargement or use absorbents, such as tincture of iodine painted on three or four times a week until the skin is blistered.

DISEASED UDDER.

I have a brood sow, two years old, that farrowed a week ago for the third time. She is in fine shape, never been sick and has eleven pigs. I noticed in the winter that she got out through the fence and I thought she got hurt around one of the back teats. It lumps and then breaks and heals, and soon another one forms and breaks. The udder is swollen quite badly, but she doesn't seem to mind it. Will you please give me some advice about this? She is a full-blood Poland China sow.

The affected part of udder apparently is diseased with actinomycosis (the cause of lumpy jaw) and in that case it will prove incurable unless possibly by an operation when dry. The lumps should be painted with tincture of iodine three times a week and swabbed out with the tincture when they open.

PUFFS.

I have a two-year-old sorrel colt, weight 710 pounds, that has puffs on the outside of her hock joints. They feel as though they were filled with air. It has been a year since I first noticed them. She is in good flesh; have been feeding her on oats and oat hay. An old horse trader told me they were thoroughpin. Please tell me what it is and a cure if there is any.

The "puffs" are filled with synovia (joint oil) and may prove permanent blemishes. Keep the hocks well daubed with pine tar and let the colt run out on grass.

ITCHING SKIN.

I have a young mare that will be three years old in July. I bought her two months ago. After I had had her a week I noticed she had some kind of itch. She will rub her tail and mane and all over her body. As the man I bought her from had never curried her I thought that was the cause, so I have curried her every day, but it does no good. She has a good appetite, but is a little thin in flesh and does not seem to pick up as fast as I would like her to. I drive her a little. Feed her corn, oats, linseed meal and timothy hay. She gets all the exercise she wants; has no boils or pimples on her skin, and looks healthy and seems to feel good, only that she rubs herself so much. If you could give me any remedy for this case I would be very much obliged. Would clipping do her any good? She does not have a very thick coat of hair and is shedding right along.

Clipping would be the best treatment. Then wash itchy parts with a 1-50 solution of coal-tar dip as required. Stop feeding corn and linseed meal and continue oats, bran and hay.

WEAK MARE.

I have an eight-year-old brown mare in foal that took distemper last January. There was a swelling under her jaw which broke and ran. The sores healed up six weeks or more ago, but she is now very weak and thin in flesh. She looks well out of her eyes; appetite varies and at times apparently she can hardly eat. There is a rumbling in bowels more or less at times; manure has an offensive smell; urine rather dark colored, but no sediment; hair looks good; teeth look all right. The local veterinarian says she has a partial paralysis of tongue and throat,

but seems to use her tongue all right, although at times seems to be a little slow in swallowing water. This mare is a valuable one and any information would be appreciated. The veterinarian gave treatment, but with little, if any, benefit.

Feed her crushed oats, bran and shelled corn along with best of hay. Give her half an ounce of Fowler's solution of arsenic and one dram of fluid extract of nux vomica night and morning for a week; then, if necessary, increase to three of such doses a day until she is strong, when the medicine may be gradually discontinued. Part of the trouble may be due to pus absorption. If you don't have to work her she may be turned on good grass pasture, but in that case should also have additional nourishing food.

COUGH OF HOGS.

I have about fifty last fall pigs that are beauties and doing well, but have a terrible cough, a long, hoarse cough. What is the cause of this? The pigs get good care. My little pigs about two weeks old also cough. Is it worms? If so, what is good for worms and how should it be used?

Cough in very young pigs often is due to dusty bedding and fatal pneumonia may even result from that cause. Damp beds or badly-ventilated stables may also induce cough. The most probable cause, however, is the presence of lung worms (strongylus paradoxus), for which not much can be done by administration of medicine. Turpentine is of some use. Give it in slop at the rate of one teaspoonful for each eighty pounds live weight for three days in succession and repeat the following week. Allow the hogs free range on grass and keep them out of dusty places and damp beds.

GREASE.

I have a gray imported stallion, eleven years old, weight 2,100 pounds, that has something like the scratches on his legs from his knees down. He has had it about two years now. Small lumps form and he gnaws them until they bleed and dry up and then break out some other place. He is worse in warm weather. I have tried two veterinarians, but they don't seem to do any good. Please advise a cure.

Put the stallion to steady work in harness or at least give him six miles exercise on the road every day of the year in addition to the exercise he takes in a roomy box stall with yard in connection. Cut his grain ration in half and if the trouble continues stop feeding grain entirely and let him live on grass, hay, bran and roots. Give him half an ounce of Fowler's solution of arsenic night and morning until he is well, then discontinue the medicine gradually, taking two weeks to the job. Mix two ounces of flowers of sulphur and half an ounce of coal-tar disinfectant in a pint of sweet oil and keep afflicted parts of legs saturated with this lotion. Do not wash the legs.

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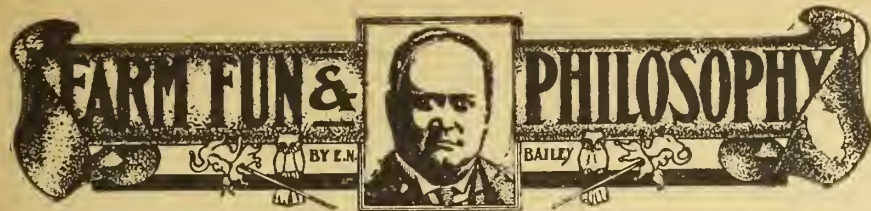
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DID YOU EVER?

Did you ever stand on the lake shore
sand

And list to the wild duck's quack?
Watch the polliwog play through the
livelong day?
Did you think of the days "way
back?"

The hum of the bees as they work in
the trees?

The steers as they tear up the turf?
As the chicken hawks soar high over
the shore,
While the jacksnipe wades in the surf?

And you gaze at the lad with a hazel-
wood gad

And his overalls tied with a string,
As he sits on a log and spears at a
frog,
Or throws at a bird with a sling?

Do you think of the time in some
other clime

When another boy played in the dirt,
Digging holes in the sand with a little
brown hand,
And "clothed pretty much in a shirt?"

Say, what would you give once more
to live

And play as a boy and just roam
And wade in the brook in some nice,
shady nook,
With clothing not much on, "just
some?"

It seems strange that when a man
gets down and does his very best, still
some things he writes will be worse
than something else. It doesn't look
possible.

Some one advanced the theory that
the comet was responsible for the ex-
ceedingly fine weather during March
and the first half of April. A comet
must be something like a cat, gets
uneasy when the world steps on its
tail. And the next day it snowed.

How to Delay Housecleaning.

Now is the time for the man to go
home to dinner and find the lawn pil-
ed ten feet high with household goods
and bric-a-brac from the rosebed to
the dining room window.

It is well now to take time by the
forelock and begin to use a little per-
spicacity. Get a couple of pairs of
four-ounce boxing gloves and call
your wife into the woodshed, give her
a choice of gloves and then wade in.
If she is "the best man" and can swat
you on the kisser and muss you all
up, thump you until you are groggy
and knock you out, you may as well
give up and take what is prepared
for you, and then go and visit your
uncle until the desolation is at an
end, but if not paste her hard. She
has been three months blowing up
her muscle and taking on strength
and vigor preparatory to the regular
semi-annual tumult. Lam her hard
and kick the hired girl down cellar.
The hired girl is most always in the
insurrection and is a co-conspirator of
the deepest dye generally. If she
shows her head above the hatchway,
throw the washing machine at her
and fill the hatchway with old barrels,
boxes, or anything you can find, but
nail the door down and keep her
down there, whatever else you do.
Don't let your wife say a word; if she
does grab the skillet with both hands
and paste it on hard. Don't break any
bones, just bruise her, put the gloves
on and black both her eyes. A wom-
an won't hunt paper hangers or cal-
ciminers or sort wall paper if she has
both eyes well blacked. If you see
her gazing at the ceiling or at the
rugs, throw the coal scuttle at her
and drive her into a corner. Be in
dead earnest. Don't dally. Hurt her
every time you throw. It is your only
salvation, and dalliance means defeat.

If you attempt to break up house-
cleaning by lenient measures you are
lost. Fierce determination and stead-
fastness of purpose are the only roads
to success. Kick the table over when
you get through eating. It will give
her something to think about besides
paper and paste. Have something to
attract her attention. Feed the hired
girl in the cellar for several days un-
til your wife gets good and tired. She
has planned her raid for so long that
she is entirely too frisky anyhow.
Stay right at home. If you are gone
two hours at one time all is lost, and
when you get back you will find you

have "moved." Look pleasant and be
cheerful. Nothing will encourage
your wife like pleasant words, but
don't let her smile. If you do she
will take too much for granted. If
she should smile, throw a loaf of
bread through the motto, "God bless
our home." A woman is bound to
have her own way, and strenuous en-
deavor is the only thing that will cir-
cumvent her.

When you go into the house brag
on how clean it is and tell your wife
about the women you have read about
who have died from pneumonia con-
tracted while cleaning house. This
will terrify her. This really looks
brutal, but it is the only way to
handle such cases and it is really
doing her a kindness. The bruises
will not hurt one-half as bad as the
exposure to the changeable weather
of spring. Keep her at home, and if
you catch her looking at any of the
neighbor's lawns that have furniture
on them, tell her that it is the small-
pox and that the board of health is
fumigating the house.

Follow these instructions faithfully
and you may tide housecleaning over
until it gets warm enough so you
won't freeze to death sleeping on the
chiffonier on the back porch. In the
meantime save up your money to buy
paint, paper, brushes, lime, paste,
brooms and mops, and get into a fight
with every paper hanger in town so
that they won't come near your house
for love or money. You can't beat
the game, but with plenty of nerve
and finesse you can retard it.

An Ode to Pieplant.

No matter what else may come or
go, rhubarb is here, and rhubarb pie
replaces a goneness with a filling sen-
sation that is one glad hallelujah, and
a benison. An American table with-
out rhubarb pie in the spring is as
barren as a county fair without a
pumpkin, or a church sociable with-
out a grass widow.

After a man has wintered on excel-
sior, baled hay and other breakfast
foods and dried apples, rhubarb pie
puts new vim and energy into him
like the bent pin to the anatomy of
the adolescent pedagogue. It stirs
his innermost processes with joyous
melody and startles his palate into
a paeon of praise. It is a rhapsody,
an anthem, a superb harmony. It per-
meates his being with the geewhiz of
the horseradish and the aroma of
spring, it elevates in joy and makes
one feel like a yearling colt doing di-
does in green pastures. It instigates
ambition and induces hilarity, it gives
the stomach a joyous tone and tickles
the gullet mightily, it really "hits the
spot" with delightful sensations.

Rhubarb pie is to the housewife
what the spring hat is to the milliner,
a creation and a phenomenon. If the
crust is just right and the inwards
perfect, it is the elysium of exhlara-
tion, and the superexcellence of de-
light. It grows in the night like Jo-
nah's gourd and is so cheap that it
can be fed to a tramp with impunity
or accompanied by a doughnut.

Pieplant stands just between the
vegetable and the fruit; it is the con-
necting link between agriculture and
horticulture, but can get out of the
ground and into a pie while an apple
is studying the advisability of blos-
soming. It is one of the most sudden
of all garden products and arrives
just between hay and grass. It is the
pie timber of frugality and the har-
binger of hope to the housewife. It
greet the rich and the poor alike and
a dozen hills of it will feed an army.
It is the forerunner of asparagus, co-
eval with the crocus. Its only compet-
itor is the horseradish, the cowslip and
the dandelion. Pieplant and greens
are the pioneers of fresh smellage
and the palate ticklers of springtime.
The crocus, the bumblebee, the bull
frog, the mud turtle, greens and pie-
plant! Go away icicles and snow-
balls, pieplant is here, and is tickling
the gullet of civilization till it purrs
with contentment like a pet kitten.

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The stroke of the Rock Island Hay Loader is a long, slow, oblong motion, only
1,700 strokes per MILE, just like raking by hand. The motion of the rakes of
other loaders is circular (little jabs at the ground), up to 5,500 strokes per minute
—more than THREE TIMES as fast. So these ordinary loaders wear out and
give out three times as quick. The rakes of the Rock Island are pulled in the
natural way—not pushed as in other loaders. This keeps elevator bars from
buckling or bending, removes all strain from the crankshaft and helps keep the
mouth clear.

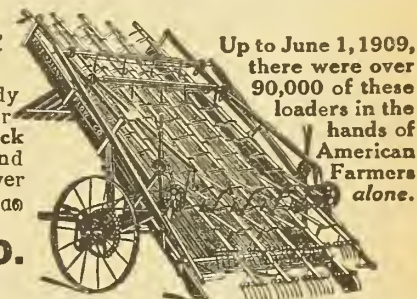
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easy draft, supreme convenience and almost everlasting durability—no loader
on the market can even APPROACH the

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heavy hay.

It is unquestionably the simplest,
strongest, handiest and most durable hay
loader ever put on the market.

See one at your nearest dealer's. Study
its workings. Then nothing would ever
induce you to buy anything but a Rock
Island. Or write us first for catalog and
nearest dealer's name. We'll answer
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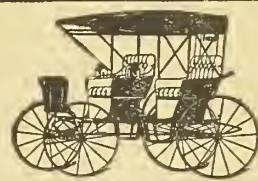
We have set a standard of quality
for our vehicles and every one we
turn out must come up to that stand-
ard or it cannot bear our name plate.

We have established a system of
inspection which guards every step in
the production of a Kratzer carriage.

Every piece of material is care-
fully tested—every process critically
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We are turning out only as many
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always have money in abundance. Break away! Send today. Don't write a letter--just a card. Only write--that's all. Begin now to make money. Frank Williams, Neb.: "Home Vacuum Cleaner a dandy; works to perfection--without raising dust."

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WITH THE EDITOR.

Apropos of something being talked of Among Ourselves last week, it occurs to me to present some advice given to a young man who was, presumably, thinking of matrimony, by his mother who writes as "a worldly woman."

This mother, a woman who has evidently had wide experience studying women and watching life, first warns her son against girls of several kinds.

"Beware," says she, "of the beauty"--and then goes on to tell how it too often happens that Nature gives beauty as a consolation for withholding every other good gift; how the beauty is apt to be vain, selfish, indolent, fond of flattery and greedy for the pleasures of the senses; how the man who wins her is apt to be puffed up for a few months and sorry all the rest of his life.

"Beware of the pussy cat girl," she says--and goes on to show the risks taken when a man ties up to the purring, kittenish kind of girl who is always so gentle and so smooth to your face, but whose tongue is sharp as a razor behind the back; the girl who, cat-like, steals the cream and, wiping her paws, sits innocently while another suffers for her sin; the girl who, like the kitten with her velvet paws, has horrible claws.

These warnings are, in their way, just as applicable to men as to women. Women need to be warned against the man whose principal assets are a fine figure or a handsome face, also against him who protests so much that practice would have a hard time when measured against profession.

Proceeding, the mother says, "Apply the test of congeniality to your love." During courting days just the being together seems enough, but after marriage the novelty wears off and unless there is some common bond of interest by and by life is apt to grow monotonous. The husband and wife who love music, those who enjoy reading aloud together, those who have some study both care to follow up and discuss, those who unite in church or lodge work, or some object of common interest, whether it be flowers or chickens or what not, have a reserve bond which, if properly cultivated, will serve to strengthen their interest in each other after the novelty of the honeymoon days has passed.

Another test the mother advises her son to apply is a tremendously important one. I think I shall quote her verbatim: "Of one thing I warn you, son--test your love well and see whether it be of the senses or the soul; for, if it be of the senses, it will be a quick, fierce fire of tinder that will burn itself out swiftly and leave your hearthstone cold and desolate; but if it be of the soul, it will be a sacred flame, miraculously fed from on high, that will burn as long as you live upon the altar of home. The reason that there are so many unhappy marriages is because so many people mistake physical attraction for deathless affection, and when passion is dead, all is dead for them."

Personally, I think that more marriages fail because of neglect to apply this test than any other. Nature cares nothing for the happiness of two young lives when intent upon the carrying out of her own plans, she casts the spell upon them which makes them feel they cannot live apart. It is for them to pause and ask whether the attraction between them is "of the senses or of the soul." Alas, that so few ask the question. Alas, that so many rush in haste to priest or recorder and take vows which gall and chafe as soon as the swift, fierce fire of desire has burned itself out.

The final test the mother would have her son apply is the strength of his desire to shield the object of his love from the hardships of life: "If

you are not willing to sacrifice yourself for her, if you don't think of her happiness and well-being before your own, you may take it from me that you are not in love. But if the very thought of her makes you feel like getting down on your very knees and thanking God for having given you a clear brain and a big, strong body so that you can take care of her; if it makes you roll up your sleeves and set your jaws, and go at your work like a tiger because every lick brings her closer to you and makes the little home of your vision more of a reality, then, son, you may safely conclude that you have got the genuine article of affection, that is all wool and a yard wide, and . . . at will stand the wear and tear of matrimonial life."

No one of these is an altogether sure test. Perhaps, taken all together, they may not be infallible, but considered carefully and applied prayerfully they would certainly do much to minimize the number of mismatched couples.

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY.

The heart makes fewer mistakes than the head.

An ill temper detracts from the beauty of the soul.

We always hurt ourselves when we try to hurt others.

A PRAYER.

Teach me, Father, how to go
Softly as the grasses grow;
Hush my soul to meet the shock
Of the wide world as a rock;
But my spirit, prompt with power,
Make as simple as a flower.
Let the dry heart fill its cup,
Like a poppy, looking up;
Let life lightly wear her crown
Like a poppy looking down,
When its heart is filled with dew,
And its life begins anew.
Teach me, Father, how to be
Kind and patient as a tree.
Joyfully the crickets croon
Under shady oak at noon;
Beetle, on his mission bent,
Tarry in that cooling tent.
Let me also cheer a spot,
Hidden field or garden grot--
Place where passing souls can rest
On their way and be their best.
--Edwin Markham.

HOME-MADE CLOTHES TREE.

An ingenious mother who was cramped for space in her home, evolved a novel little clothes tree for her baby's clothes that may be either stood or hung. To a six-inch square block of wood, about a half inch thick, she attached an upright strip a yard and a quarter long. If nothing else can be found, the handle of a long broom answers nicely. To this upright was fastened cross strips, six inches long and four or five inches apart. To the top of the tree was fastened to a screw ring that could be hung upon a closet hook, or to one stuck in the lower part of a deep shelf. The framework was given several coats of white paint and a finishing coat of enamel that it might easily be scrubbed and kept spotless. The little clothes are hung to the cross pieces by the shoulders, or by running through the sleeves, and may be put on to overlap thickly without musing.

TO STUDY BIRD CONSERVATION.

With the design of saving to the people of this country at least \$10,000,000 each year, plans for a national Audubon University, to be endowed with \$1,000,000, have been announced in this city. Based on the known annual crop loss of \$1,000,000, due to the spreading pests that the insect-eating birds destroy, the calculations of the National Association of Audubon Societies, which is back of this project, show that the teachings of bird value from such an institution must result in wiping out at least 1 per cent of the huge national penalty for popular lack of knowledge on this subject. When \$1,000,000 can be raised for the new university it is purposed at once to start its work, which promises eventually to contribute millions to American prosperity.

Every man, woman and child throughout the United States may be included as a student in the proposed Audubon University. Through hundreds of lecturers and teachers, who are to be educated in the science of nature's checks to the destruction of the country's crops and woods, the economic principles of bird preservation will be taught in every community. By means of university extension and correspondence courses the saving effect of the wild birds upon agriculture in every section will be presented to the workers on the 6,000,000 farms of the country. Each phase of the science of economic ornithol-

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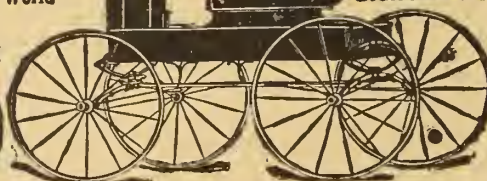
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ogy will be studied and presented to the people.—N. Y. Tribune.

HOUSEHOLD HINTS.

To make batter for griddle cakes or fritters, have equal quantities of liquid and flour; for cake or muffin dough, have a cupful of liquid to two cupfuls of flour.

Rice with fruit makes a tasty dessert. When the rice is boiled tender add a little orange pulp, a sliced banana and a few canned cherries. Pour into a mold to become firm. When cold cover with powdered macaroons and serve with either whipped cream or a soft custard.

To hard boil eggs so that the yolks will not be discolored, they should be put into boiling water on the stove, never into cold, and after boiling for half an hour they should be plunged into cold.

Cold cooked beef, whether boiled, broiled or roasted, chopped fine, mixed with cooked potatoes, also chopped fine, and moistened with gravy and milk, make a most acceptable dish. Put into a pudding dish, cover the top with grated cheese and bake.

A sweet biscuit may be made with ordinary biscuit dough with the addition of chopped dates. Roll the dough quite thin, spread with plenty of soft butter, and then put on a thick layer of chopped dates. On top place another layer of dough and cut out with a small cutter. Bake in a hot oven.

If your griddle cakes stick to the pan while cooking, stir the batter in the usual manner, melt about a table-spoonful of lard on the griddle and pour into the batter. (This amount is sufficient for nearly a gallon of batter.) Then proceed to bake the cakes and you will have no trouble.

AMONG OURSELVES.

Latterly, our circle seems to be drawing to it more of the young women than heretofore. I am glad to welcome them Among Ourselves and glad that they feel free to come to us with their perplexities. I do not want that all they bring should be affairs of the heart. They are all right in their place, but we must not let them assume too great importance. And yet a request such as "Nameless" makes is surely important enough to command reverent attention. It should be so when a soul pauses on the brink of an abyss:

I have been a silent reader of the Home Department for over a year and enjoy the letters there very much and should like some advice. I am twenty years old, live on the ranch with my parents and one brother younger than myself. We have ten cows to milk and sell the cream. We have sixteen head of horses, four coits. There are no young people in the neighborhood whom we mingle with, so it is very lonesome, and we are seventeen miles from town. My brother attends college every winter, but I have had no school for the last four years, and my trouble is this: Two years ago I was engaged to a man twenty-five years older than myself, but my parents objected, so I had to give him up. He moved away to another town, but has now moved back to the same place and we are neighbors and often see each other. He married about a year ago, but he has told me he thinks as much of me as ever and does not live happily with his wife. I know I can never care for any other. Shall I continue to live here or should I move away? I should like advice.

How I hope that sweet, wise souls, taught by life regarding real things, will come in response to this cry. Come, friends, come, and do not tarry.

Another young friend, Verna Crews, comes with a bit of story which should inspire other girls:

I have been reading your letters on different subjects for some time, but never felt like adding a few words till I read the paragraphs on "shut-ins," which appealed to me very much. I am a young girl twenty-two years old, working in my father's bank as assistant cashier, ten miles from my home town, and have very little time to devote to other duties, but when I go home on Sundays I generally spend the afternoons with sick folks or old ladies who can't get out. We, girl friends and myself, often spend Sunday afternoons at the hospital, visiting the various patients. We may take flowers or reading matter or just simply stop and chat for a while. They nearly always express their delight in having us call. I delight in being with extreme old age, also with children. There is one particular old lady in my home town, eighty-five years old, whom I love to visit, and there is nothing seems to please her better than to have me go to see her. She is hard of hearing and can't see very well and says she is no good here any longer, only waiting till the Lord calls her. She is such a dear, patient, old lady and is so active for one of her age, but has to stay in so closely now on account of failing health. I have made it a point to go to see her once a month, and if I don't come at my appointed time, she always asks me why I hadn't come, and says she thought I had forgotten her. I agree with Mrs. N. M. in her article on "shut-ins," when she says, "We cannot be too careful in what we say and how we say it," especially to these people who are closed in, we might say, away from the bright, beautiful,

outside world. When they were young like ourselves they enjoyed such pleasures as we enjoy, and it pleases them to have us tell them of our girlish jokes and pastimes. And still we can drop a few kind remarks and wishes which they will remember and cherish and look forward to our coming again. We cannot visit them too often and, like the beautiful song, "Let a Little Sunshine in," we should always be ready and glad to shed a little sunshine everywhere we go.

What Miss Crews tells reminds me of my own girlhood when I always had a bed-ridden woman or a blind man or some shut-in to visit on Saturday afternoons. And I want to say here that, as I look back, no hours of my girlhood give me more pleasure to remember than those. I believe that in giving pleasure we find richest pleasure for ourselves and I commend this thought to our young friends.

A communication intended for "In Despair" somehow missed receiving attention at the time and, as the subject of children's education is one of perennial interest to parents, we shall have it now:

I do not think it best for a teacher to keep unusually bright children back in a class when others are far behind. By doing so she may place a restraint upon the child that would be a barrier to its educational growth. I am sorry to say that I am afraid the sending of our boys and girls to the city schools has a tendency to break up the country home and families. In the city we have so much to call our mind from our books, and so much to lead them into temptation. There is a party to go to, a theater or a reception to attend, and each of these calls for dress. Thus we have fashion and amusements. After having all of these gaieties in the city, and then going on the farm to that quiet, peaceful life, it is rather hard for them to stay. And then look at the poems and songs that have been written and based upon this subject, such as Carleton's "Over the Hill to the Poor House." This is a broad subject and one that every parent should take an interest in. I shall watch zealously for other letters. Wishing you success, I am one who is interested in the welfare of the young generation.

Miss M. S. makes her points quite plain. I doubt not others will agree with her regarding the satisfying nature of the pleasures of country life, and if sending children to the city to school weans them away from the country home it is a question whether or no it is a good thing.

A Kansas Farmer's Wife sends me a letter which appeared in some paper taken in her family. She wants it given place in our circle and asks that the friends who have knowledge of the advantages of the separator as a labor saver for the women on the farm will please report:

About eight months ago my wife left for a visit in the East. At the time I was milking five cows. The first milking everything went off in fine shape. The next milking came the skimming of cream off the crocks and "by heck," after that came the washing of crocks, crocks and crocks. I worked hard trying to take care of that milk and cream and watch the outfit. By the third day it had become an old story, and I decided it was too hard work for yours truly. And right then and there I decided I must find some way to avoid so much work, with poor results in the summer at that. The butter was bad that I made; the hardest work for the least pay I ever did. On the fourth day I borrowed \$30 from the bank and sent for a separator. By the way, I fed whole milk to the pigs until the separator came. No washing crocks for me. Since then the separator has paid twice what it cost us. We make much more butter, of better quality, and with much less work. And we can raise better calves and pigs. Fifteen minutes from the time I step into the house the milk is separated and fed. No crocks to wash, and the separator takes less than five minutes to clean. The skim milk has about 100 per cent more nourishment than sour milk from the crock gravity, water or any other method I have ever heard of. And a separator beats any other system ever devised for getting the cream out of the milk. If I had only two cows I would sell one and buy a separator.—M. G. B.

This letter, on the face of it, seems pretty positive evidence. Is M. G. B. overstating things—the advantages, I mean? We all know something of the labor the care of milk involves. If this man found it intolerable, why should women continue plodding away? Please take this question up, friends.

M. H., who comes to us every once in a while with something of interest to the housewife, has some words to say about "Towels and Soap."

Too much cannot be said against the indiscriminate use of towels and



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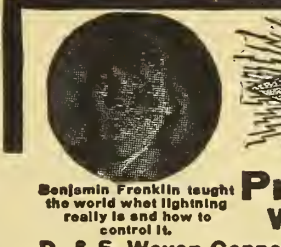
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soap, as eye troubles and skin diseases of any kind may be communicated from one member of the family to another and often to the entire household by the common use of towels and soap. It is a great saving to the kitchen towels to keep an old, soft cloth hanging in a convenient place to dry the hands on after cleaning the stove or other such work, and there is nothing better for this purpose than pieces of old underwear. Every small bit of toilet soap can be saved and used again and it is a good plan to keep the pieces in a box or glass jar closely covered until you have collected a nice quantity of the scraps. All pieces of meat too fat for use can be utilized in the making of one's own laundry soap by the aid of lye or potash, and quite a number of blocks of snow-white soap can be made at the merest trifling cost. Fry out the meat scraps and strain, then to one-half pound of potash and a little water add three pounds of melted fat and stir for ten minutes and, just before removing from the stove, stir in a heaping tablespoonful of borax that has been dissolved in warm water. This makes an excellent hard, white soap for household use. To use up the scraps of toilet soap, place them in a pan and cover with boiling water and place on the back of the stove to melt slowly. Stir in ground oat meal and about two ounces of powdered borax and you will find no finer toilet soap than this. If any member of the family has sore eyes, a skin disease or a catarrhal affection, see to it that all towels they have used are kept to themselves and washed through a strong borax suds, as the borax softens the water, whitens the fabric and purifies and disinfects. One young lady was visiting a friend who had granulated eyelids and she used the same washstand towels and soap while there and she contracted the disease, which has cost her much suffering and many dollars, and all because the girls had not been taught to be careful about using towels and soap that others have used.

It would seem as if matters of this kind should not require to be talked of at all, but the fact is they do. Not long ago as a guest in a pretentious house furnished without regard to cost, I found no provision for the toilet in my room and on finding my way to the bathroom discovered that one towel and wash cloth seemed to have done duty for the whole family that morning.

A question about refrigerators should be answered speedily to be of use. Please someone who knows what to do advise S. J. N.:

I have been a reader of the Home Department for about fifteen years and have had a desire to contribute my mite a number of times, but always put off writing. I wish very much to know if some of the readers can tell me how to clean a refrigerator. Last fall we bought a second-hand one of a doctor's family in our neighboring town and, after giving it a thorough scrubbing and drying in the sun and wind (the shelf is made of wood and is as white as it could be scrubbed), put in my first victuals, consisting of pressed boiled meat in a gallon crock and a number of pumpkin pies, and after getting out our Sunday dinner found it tasted so musty we could not eat it. Nothing was put in until thoroughly cooled. I have left it open quite a bit of the winter, but will need it when the warm weather begins. I hope someone will be able to tell me how to make it fit for food.

I fear our friend has a problem on her hands. Mold and must are extremely difficult to deal with. One time when I was suddenly called away from home without having time to give directions for emptying and leaving the refrigerator open, on my return I discovered a bowl of milk which had been neglected. It was weeks before food could be kept in the refrigerator, though we had it carried out of doors and after generous treatment with borax and boiling water left it wide open in a sunny spot.

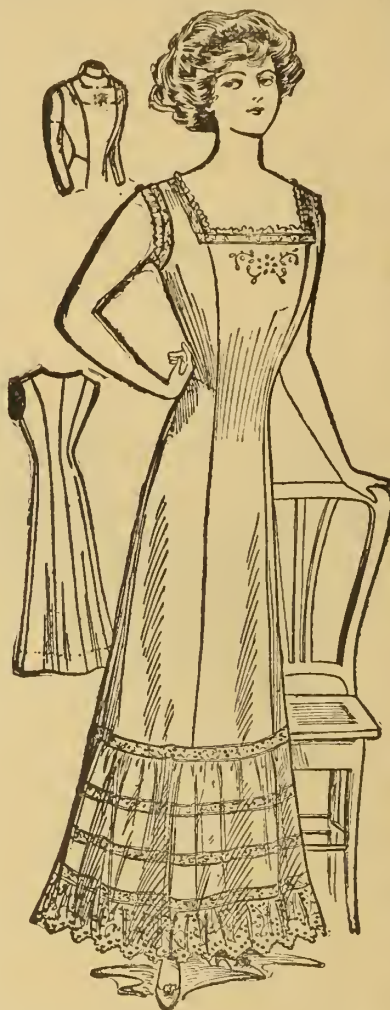
DRESSMAKING—NO. 75.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

The princess slip is almost a necessity of up-to-date dress, for whether a princess gown is worn or the separate waist and skirt it is essential to dispense with all bulk at the waist line. This one can be made in various ways and is equally well adapted to silk foundations and to lingerie materials. It can be made with low or Dutch neck on square or round outline or it can be made high neck and with or without sleeves, so that it suits all occasions as well as all materials. The straight gathered flounce can be finished with a hem as shown in the back view. Nainsook

with trimming of lace makes the one illustrated.

The slip is made with front, side-fronts, backs and side-backs. The long seams render fit a simple matter and there is a dart in each side-front portion at the waist line which means



[6608 Princess Slip, 34 to 44 Bust.—With or Without Gathered Flounce, With Low, Square or Round Neck, With Dutch Neck in Square or Round Outline or With High Neck, Without Sleeves, or With Long or Short Sleeves.]

perfect smoothness. The flounce is straight and gathered, and can be trimmed on the lines indicated or as liked. The sleeves are in two pieces each and can be cut in any desired length.

The quantity of material required for the medium size is 8½ yards 24 or



[6607 Girl's Costume, 8 to 14 Years.—With Gathered Sleeves in Full or Three-Quarter Length or Plain Loose Sleeves.]

27, 7½ yards 32 or 5¼ yards 44 inches wide for the plain slip; 2½ yards 24, 2 yards 27, 1½ yards 32 or 1¼ yards 44 inches wide for the flounce, with 4½ yards of embroidery, 14½ yards of



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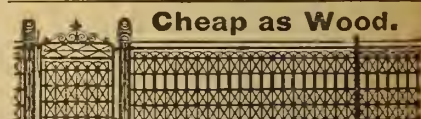
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insertion, 3½ yards of narrow edging to make as illustrated.

The pattern 6608 is cut in sizes for a 34, 36, 38, 40, 42 and 44-inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

Young girls are wearing a great many dresses that are made with loose blouses over plaited skirts. This one is quite novel and in every way attractive. Also it is so easy to make that busy mothers will find it a boon. The blouse is open at the left of the front, but is joined at the lower edge and the facing is applied over it, so that it is drawn on over the head and can be closed invisibly or with buttons and buttonholes as liked. Scotch gingham makes the dress illustrated, but such a model is appropriate for all childish materials, the wools of immediate wear as well as the washable ones of the future. For the early spring serge, cashmere and similar materials can be so made; for the coming summer linen, ginghams and materials of the sort are charming, while later the model can be utilized for the thinner lawns and the like.

The costume consists of the skirt, the fitted body portion and the blouse. The skirt is straight and is joined to the fitted body and the two are closed at the back. The blouse is made with front and back portions, but the front edges are lapped and are joined for a short distance and the facing is applied over the lower edge of the blouse. The sleeves are in one piece each. The full ones are gathered into bands and the loose ones are finished with applied trimming.

The quantity of material required for the medium size (12 years) is 6½ yards 24, 5 yards 27, 4¾ yards 32 or 2½ yards 44 inches wide.

The pattern 6607 is cut in sizes for girls of 8, 10, 12 and 14 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair Tennyson.

The International Sunday School Lesson

SECOND QUARTER. Lesson VI.—Proverbs XXIII, 29-35. May 8, 1910.

TEMPERANCE LESSON.

A thousand years before Christ, Homer, in his Odyssey, sang of a fair enchantress, Circe, whose palace, spite of all its fine appointments, was really "a sensual sty," and whose guests, as soon as they had quaffed her cups, were transformed into beasts.

And they so perfect in their misery, Not once perceived their foul disfigurement.

In the very same age, Israel's poet-king, Solomon, was painting, with inimitable skill, the horrid likeness of the drunkard, his woe, his folly, and his fate. The picture has flashed before each succeeding generation, an inspired danger signal, a powerful deterrent from intemperance. The very antiquity of the picture illustrates the fact that drunkenness is no modern vice. It is not the accident of civilization. It is as old as the time of Noah, and older. It was probably a provoking cause of that nameless depravity which was drowned out in the awful judgment of the flood. Each succeeding generation has suffered the crushing weight of this dreadful woe; each has been burned, bitten, and poisoned by this vice; from each has burst the sorrowful, despairing interjection, "O!" "Alas!" This picture, 3,000 years old, is an exact likeness of the drunkard of today. In thirty centuries there has been no change in the causes and effects of intemperance. Those who tarry at wine, by the increase of the subtle and powerful appetite, are compelled to seek stronger potations (mixed wine). The gradation from light wine to red wine and the highly alcoholized wine, with its eyes and beads, is inevitable. Then follow the facial signs of inebriety (redness of eyes); next quarrelsomeness, causeless wounds, and the inflaming of sexual passions; finally, incipient dementia, which makes the drunkard oblivious to personal danger, and to indignities visited upon him by hooting mob or officer of law—a dementia, however, in which the appetite persistently asserts itself, the worm dieth not, the fire is not quenched, all is forgotten, all is lost; but among the debris of the mind, heart, and manhood the conqueror stalks,

And careth naught
For the awful ruin he hath wrought.
No truly philanthropic spirit can push this direful picture aside. No Christian can do so unless his Bible permits him to say, "I'm not my brother's keeper." But if neither philanthropist nor Christian, whether he will or no, the citizen must, from self-interest, sooner or later give attention to this mirror which Solomon holds up before our times. There is a blood-spot upon the hand of our American civilization. It will not "out." "Here's the smell of blood still; all the perfumes of Arabia will not sweeten this hand." Self-interest and defense will soon compel the government, aside from all suggestions of humanity, to take a stand against this traffic, which produces a deteriorated manhood, insanity, pauperism, crime, and death. Some means of defense are here suggested:

1 Total abstinence is the Ulyssian

flower which disarms the modern Circe of her infernal spell. It will save our boys and young men from being converted into beasts. 2. Many perish for lack of knowledge. Scientific education in the public schools on the subject of intemperance is the duty of the state. 3. The enforcement of all existing temperance laws by every honorable means. 4. Constitutional prohibition of the manufacture and traffic in all alcoholic liquors.

The Teacher's Lantern.

Facts of physiology are against alcoholic liquors. A single injection into the stomach causes the pepsin to precipitate, and at once arrests digestion. It absorbs water from the living tissues so rapidly as to dry and harden them; it contracts the liver; it unhealthily increases the pulsations of the heart; it renders the subject liable to epidemic diseases. Physiology describes alcohol as an irritant, blistering the living tissues; an astringent, contracting and hardening the parts which it touches; a solvent, destroying the vital tissues; a narcotic, often producing the last long sleep. Alcohol is needed, no doubt, for some mechanical and medicinal purposes. So is strychnin. Let the sale of the one be as carefully restricted as that of the other. The following circumstance illustrates the subject of whisky and wages: Three young men, carpenters by trade, hired themselves to a boss, promising to stay with him until a certain piece of work was completed. They were to receive the same wages and were to draw them as they chose. The work lasted from spring until Christmas. On the final settlement, one of the young men, who frequented the tavern and was a pretty hard drinker, found a balance to his credit of \$2.50. The second, who was a somewhat more moderate drinker, had \$11. The third, who was a teetotaler, had \$150. The first and second were very seedy clothes and were in debt. The third had a good suit and no debts. The relations of capital and labor in this country are confessedly strained. The lot of the working people is hard; but whisky comes in as a disturbing element to increase the hardship. It breeds poverty, discontent, anarchism.

After six years of crossing breeds, W. A. Bertman of Alton, Illinois, is said to have developed a wingless breed of chickens, which will be just the thing for suburbanites and city dwellers with chicken raising propensities. The wingless chicken will be unable to jump a fence two feet high and get into the neighbor's garden. Also they will be easy to catch when the housewife wants one for dinner. Bertman says his new breed of chickens cannot fly, as no long feathers ever grow in their wings. Bertman began his six years' work with a bird of a mongrel species, which he obtained from a farmer. Recently, he is said to have sent three to a friend in St. Louis who wants to raise chickens in the city without annoying his neighbors.

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This is a combination Tedder and Rake—light-running, easily handled, rides comfortably. Rakes clean! Needs no dumping! Doesn't "rope" the hay. Catalog sent FREE. Write NOW! The time is short!

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THE YOUNG FOLKS

THE BROWN THRUSH.

There's a merry brown thrush sitting
up in the tree.
"He's singing to me! He's singing to
me!"
And what does he say, little girl, lit-
tle boy?
"Oh! the world's running over with
joy!"
Don't you hear? Don't you see?
Hush! Look! In my tree
I'm as happy as happy can be!"

And the brown thrush keeps singing,
"A nest do you see,
And five eggs, hid by me in the juni-
per tree?
Don't meddle! don't touch! little girl,
little boy,
Or the world will lose some of its joy!
Now I'm glad! Now I'm free!
And always shall be,
If you never bring sorrow to me."
So the merry brown thrush sings away
in the tree,
To you and to me, to you and to me;
And he sings all the day, little girl,
little boy,
"Oh, the world's running over with joy!
But long it won't be,
Don't you know? Don't you see?
Unless we are as good as can be?"
—Lucy Larcom.

HOW TO BUILD A BLUEBIRD HOUSE.

"A bird as familiar as the bluebird
needs no introduction," says a well-
known naturalist. "In fact, he seems
so at home in our orchards and gar-
dens or about our dwellings that we
wonder what he did for a home before
the white man came."

The bluebird house is meant to be
fastened against the wall of the
house or barn. The front and two
sides are made of three upright
pieces of slab wood with the bark on.
The piece forming the front is cut
with an A-shaped peak, and a flat
seven-eighths-inch board is made in
a corresponding shape to form the
back of the house by which it is
fastened to the wall.

The two sides and front, if care-
fully selected, will when put together,
have a rounded shape, not unlike that
of a section of a small tree. One side
of the ordinary hip-roof, with attrac-
tive projecting eaves, is securely nail-
ed in place. The other side is hinged
at the ridge, and a small hook-hasp
underneath the projecting lower edge
holds it firmly closed, like the cover
of a box. This permits the house
to be cleaned each season.

The house is attached to a seven-
eighths-inch board base nearly square,
the front edge projecting a few inches
to provide a porch. Two little birch
sticks may be fashioned in the shape
of fences at each side in front. An-
other piece of slab wood with the
bark on, attached underneath the base
gives a pleasing finish to the struc-
ture.

The inside measurement should be
about 9x7x7 inches and the entrance
hole the size of a half dollar.

The Life of a Canary Bird.

I am a little yellow canary bird.
My home was in the beautiful forest
where the tall green trees and flow-
ers around us grew. We lived in an
old oak tree, my brother, sister and I.

And how happy we were! In our
little round nest among the leaves we
could see far over the beautiful coun-
tryside. In the evening we could see
the beautiful sunsets, and the night
breezes and the rippling brook sang
us to sleep.

My mother worked very hard to
feed us children and gathered seeds,
worms, berries and fruit from a big
orchard near our little home. In the
bright sunshine she would fly about
while we happily played among the
leafy branches.

"But some day you must fly, my
birdlings, dear, into the wide world
and learn its secrets, troubles and
joys," said mother one day. Her words
filled me with joy, for I would love
to fly about and learn all of the se-
crets and joys. One day when I had
learned to fly, I thought how free and
brave I was. I flew about in the
bright sunshine over high tree tops,
past my little home and over into a

large, green yard, filled with many
beautiful flowers and fountains.

Some children were playing on the
green grass and they gave a merry
shout as they saw me fly into the
green trees. I sang them a sweet song
and they all clapped their hands and
ran and told their father.

Their father said, "What a pretty
bird, and what a nice pet he would
make. I will try and catch him." He
gave a great jump and before I could
fly away he had me tightly clasped in
his strong hands. How my heart
beat and how I struggled. But his
hand was strong and my poor wings
could not move. The children danced
around me while their father carried
me into the house and put me into an
iron cage. I fluttered against the
iron bars until I was worn out and so
I sat upon the little perch and fell
fast asleep.

When I awoke the next morning,
the bright sunshine was streaming in-
to my little cage. But oh, how dull
and gray everything was about me.
How I missed the green leaves, the
fresh morning air, and the songs of
my playmates as they rose at dawn.
And now I thought of my mother and
her words, and I wished I could be
near her again. Oh, how sad and
lonely I was. My mistress brought me
rich food and water every morning
and was very kind. But the children
were very noisy and frightened me
very much. But I grew to like them
all and my new home also, for I
knew I could never get out of my
strong iron cage. I listened to the
children as they tried to teach sweet
songs to me, and watched my mistress
as she worked about the room. Some
hours were very beautiful to me
while some were lonely.

Many years have passed and I am
still in the same home. The children
have grown and moved far away, but
my dear mistress and master are still
with me. But the other day my mas-
ter said to my mistress, "As we are
going to make our home in town we
will sell our canary."

"Oh, no," she said, "we will not
sell him, but let him free and he can
enjoy his native life once more."

Oh, how my heart beat with joy.
Once more I could fly in the open air,
the green trees and see the blue sky.
And I thought of my mother, broth-
ers and playmates. Would they be
waiting for me in the little round
nest in the old oak tree?

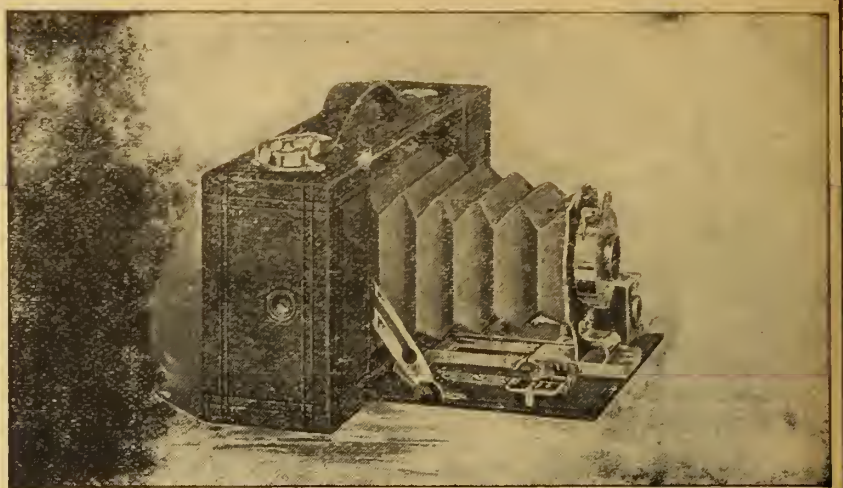
One beautiful June day my master
opened the iron door and clasped me
in his strong hand as he did on that
beautiful day long ago. My mistress
stopped before him and gently kissed
me on the head and said, "Goodbye,
little bird; you have cheered us many
a gloomy day with your happy little
songs." And as I flew away in the
lovely sunshine I thought there never
was a more beautiful world.

Esther K. Reed.

In half a century the United States
Department of Agriculture has grown
from a mere beginning to an institu-
tion with over 11,000 employees. Con-
gress supplies it with an annual in-
come for its expenditure in the neigh-
borhood of fifteen million dollars,
while half as much more is spent by
the states in their agricultural experi-
ments, colleges and experiment sta-
tions. Of its employees, nearly 3,000
are scientists, hundreds are adminis-
trative officers and thousands are
clerks and helpers. There are a doz-
en bureaus, ranging in expenditure
from \$60,000 to \$4,000,000.

They had been making hay while
the sun shone, says the Beloit Call,
and when they had finished a high
haystack the farmer's boy shouted
from the top: "Say, how am I going
to get down?" The farmer considered
the problem and finally solved it:
"Oh, jest shet yer eyes an' walk round
a hit!"

Lewis' Single Binder straight 5c cigar. You
pay 10c for cigars not so good.



2A FOLDING POCKET BROWNIE

Here is a new member of the Brownie family,
which gives a picture of that highly popular size,
2½ x 4¼, in a folding pocket camera, at the extremely
modest price of \$7.00. The illustration above not only
shows the camera itself, but designates also the exact
size of the picture it makes.

The 2A Folding Pocket Brownie loads in daylight
with Kodak film cartridges, has our pocket automatic
shutter, meniscus achromatic lens, automatic focus-
ing lock, reversible finder for horizontal or vertical
views, two tripod sockets, and is in every respect a
well made and well finished little camera.

Now on Sale by all Kodak Dealers. Price \$7.00.

Catalogue of Kodaks and Brownies free at the dealers or by mail.

Eastman Kodak Co., 392 State St., Rochester, N.Y.



Guaranteed to users of Martin's "C-1 Reliable" Pure Copper Lightning Rods

A superior quality pure copper cable,
so constructed that it gives the very
largest conducting surface.

Martin's "Old, Reliable"
has for over 20 years been the **Standard
Rod**, and the name has stood as a solid
rock for

Honest Goods—Square Dealing

We want to send you our booklets and
full information—we want to prove to you
how with Martin's Rods you can have
that feeling of satisfaction that comes of
knowing that you and yours are entirely
secure from this terrible danger. Write us
today. **Do it right now!**

The Martin Company
Dept. A. Sac City, Iowa.

Farmers and Merchants Insurance Company

LINCOLN, NEBRASKA.

CASH CAPITAL, \$200,000. Fully paid. Oldest Nebraska insurance
company. Fire, Lightning and Windstorm Insurance. Farm policy most
liberal issued. Prompt adjustments and cash paid as soon as adjusted.
For full particulars and name of nearest agent, address

Farmers & Merchants Ins. Co., Lincoln, Nebraska.

When Writing to Advertisers Please Mention This Paper

Echoes From a Kansas Farm

BY HENRY HATCH

In a drive of twenty-four miles on April 21st, and sixteen miles in another direction on the 22d, we did not see one field of wheat that looked good for five bushels of grain to the acre. The chances of any at all is steadily growing less partly because of the ground being a little dry, but mainly because of the chinch bugs.

Some of the oats are also looking rather sorry. Brown spots were noticed in some fields, a sure indication of the presence of bugs. Continued dry weather means the annihilation of some oat fields, while a soil washing rain would nearly annihilate the bugs.

Soil washing rains are not the best kind to have, but unless we can have a great deal of damp, cloudy weather—enough to start the fungous disease among the bugs—we will have chinch bugs in plenty before the Fourth of July orator makes the eagle scream.

Here of late when it seems a cinch that summer has positively come to stay, a few clouds bring a dash of rain and then a rush of cold from the north. The weatherman must have been using March, April and May for a 13-14-15 puzzle, and common to the outcome of that puzzle, got the last first and the first last.

The acreage of red clover left is small. For the first time in several years, all the clover on this farm will come from this spring's seeding, and that only after the oats have been harvested and when the aftermath in the stubble is cut. Nearly every field of old clover was winter killed or killed so badly it will not pay to leave it for a hay or seed crop. We may look for high-priced clover seed again, as well as high-priced English blue grass.

We doubt if there is a field of blue grass sown last fall that lived through the winter; at least, if there is any such in these parts we do not know of it. Fields of old grass are scarce, and the older the field the poorer producer of seed it is. Other conditions being the same, this will mean that our crop of English blue-grass seed will be scarcer than last year, when the scarcity made the price over \$3 a bushel.

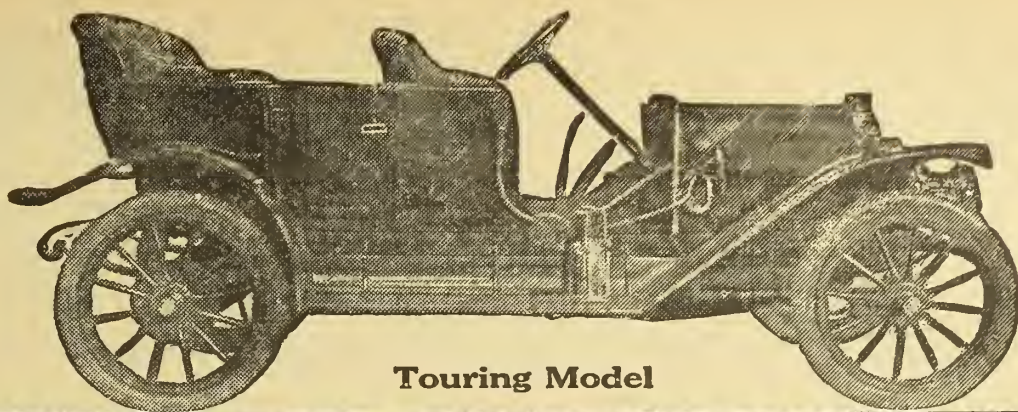
A neighbor, the farmer of an ordinary quarter-section farm, took \$23.80 worth of eggs and butter to town the other day, the product of eight days. This means an average of almost \$3 a day. Twenty years ago the same amount of stuff would not have brought \$10, besides such things were not "fooled" with then. It was big farming by everyone then.

After stacks have stood until now with the tops unruined, it takes a high wind to ruffle them up, but we are having that sort of a wind today. On such a day one has reason to be thankful that his farm is of clay and will not drift around in the wind. We farmed—rather, lived—on a sandy farm for fourteen years, and know what this kind of a day, at this season of the year, means.

It is a wonder that the roofs from more of the open-front sheds do not go in such winds. Never again will we build a cattle shed with even the south front open the size of a large door without a door there to close. The best style is the combination hay and cattle shed. One can then feed with some comfort during the winter, and the feed is kept 50 per cent better.

There is less plow scouring done in the roads than there used to be. Most folks now use grease, finding that cheaper to apply before a plow or a shovel is rusty than hard work and profanity after the rust comes. We keep a gallon pail partly filled with crude oil for the purpose of greasing polished steel. An oil paint brush sets in the oil pail, and it is but the work of a moment to grease a plow or a set of cultivator shovels.

Ask your neighbor to subscribe for The Homestead.



Touring Model

Get Our Proposition on the BADGER Cars Before You Buy Any Car At Any Price

Specifications

MOTOR:—Four Cylinder, Vertical, Cast in Pairs, 4x4, 30 H. P.
TRANSMISSION:—Selective, Sliding Gear Type; Three speeds forward and reverse, with direct drive on third speed.
FRAME:—Pressed steel, reinforced narrow front, and drop in rear.
AXLES:—Front, I Beam, drop forging; Rear, semi-floating type.
BRAKES:—External and Internal on rear wheels; 2x12 inch Drums.
BEARINGS:—F. and S. Ball Bearings.
SPRINGS:—Three-quarter elliptic, with Special Badger Spring-hanger.
WHEEL BASE:—112 inches.
WHEELS:—34x3½, quick detachable rims.
TIRES:—Continental, 34x3½.
CARBURETOR:—Schebler.
COOLING:—Thermo-siphon.
LUBRICATION:—Constant level, self-contained plunger Pump, operated by Cam-Shaft.
IGNITION:—Dual System, including Bosch High Tension Magneto, single unit coil and Storage Battery.
BODY:—Five-Passenger Touring or Two-Passenger Roadster.
UPHOLSTERING:—Finest leather with Steel Springs and curled hair.
COLOR:—Touring Model—Brewster Green Body with Red Wheels and Gear Roadster—Brown, with Black Trimmings; other colors optional.
WEIGHT:—1,800 Lbs.
REGULAR EQUIPMENT:—Includes two gas lamps, two oil lamps, tail light, generator, horn, set of tools, including Jack in pressed steel tool-box, foot accelerator, muffler cut-out, and Kamlee Auto Truck containing two suit cases on Roadster.

THIS is the opportunity of a lifetime for you to get a strictly high-grade car—all standard features—with beautiful lines—that looks and acts like a thoroughbred.

We print opposite—specifications to prove to you the Badger has the same splendid, standard features that are found on the highest-priced machines. Four Cylinder 30 H. P. Motor—Selective Sliding Gear Type Transmission—Bosch High Tension Magneto, etc. All the way through everything that goes into this car is strictly High Grade.

Many manufacturers seek to divert your attention from their specifications by laying great stress on a low price. We have better faith in your good judgment. We want first to interest you in the excellence of our car—then when you have satisfied yourself thoroughly that it's the kind of car you want—the kind that will prove a paying investment—give you all the pleasure and service you could get from a high-priced machine—then all we ask of you is to write for our

proposition and prove to yourself that this is your big opportunity to get this strictly high-grade car—the kind of a car you thought possibly you could not afford at a price lower than is charged for inferior cars.

We know, and we believe you know, that there is no satisfaction in buying a cheap car because you only buy trouble and endless expense, so we want you to write for our proposition on this Badger. There are the specifications—positive proof of the value of the car—so you can see for yourself it's the kind of a car you would like to own.

Now let us tell you how we make it easy for you to own it.

Mail the Coupon Today

Badger Motor Car Company
52 Oak St., Columbus, Wisconsin

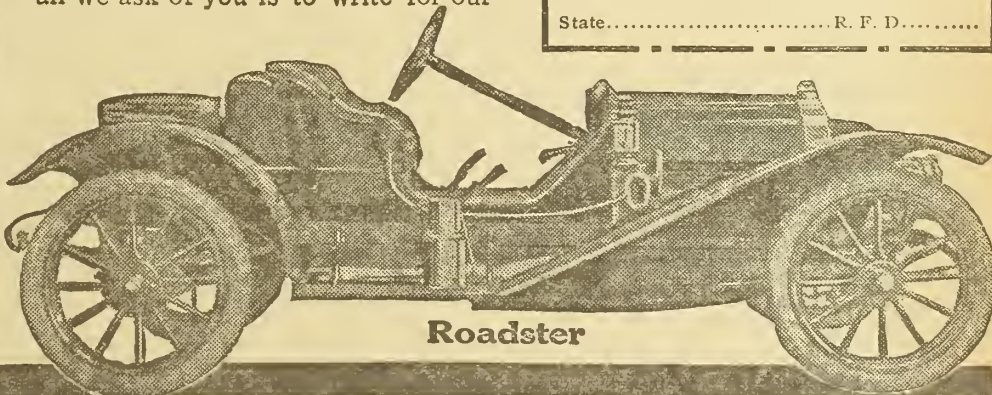
Send me proposition and Badger Book today.

Name.....
Town.....
State..... R. F. D.....

Agents—

We have an especially attractive proposition for live agents. A big money-making proposition. If you can represent us in your territory write today.

Badger Motor Car Co.
52 Oak St., Columbus, Wis.



Roadster

NOW! IS JUST THE TIME NOW! Get a Pencil and a Post Card

YOU have been seeing my ads all fall and winter—read some of them, maybe. Meant some time to write me to find out what all my advertising was about. But you put it off—couldn't find a pencil, maybe. Had to quit reading and go out to do some chore or other—and you clean forgot it.

Now—Right Now, you're thinking about it again. Don't stop till you Write Galloway Today About a Manure Spreader

Why? The best reason is that this is the year when you will need a spreader if you ever did. Manure in piles all around the barn and feed lots. Worth lots of money. Can't afford to waste a bit. Takes an awful lot of time. Get a spreader of Galloway. Best investment you ever made in machinery.

Galloway makes all his promises, all his statements, claims and challenges in black and white. A man can read 'em running. Now, what about the other fellow? Make him write it in the contract. Does he claim his spreader will be at the Galloway before breakfast? Make him write it in the contract. Does he claim his spreader is made of better material than the Galloway? Make him write it in the contract.

I will write any of my agreements—I do write 'em, every one of 'em. Ever think of that? Think it over then. If the Galloway were not exactly as good or better than I claim it is, could I hope to escape utter smash-up? You know I couldn't stay in business with my written claims and agreements if I didn't have the spreader to back me up. Well then, won't you take my advice, accept my invitation, fix it any way you choose, but get your name onto a slip of paper or a postal card and send it to me. Not next week—not next Saturday—not tomorrow. Do it quick. Now is the time—Now. Then you'll be ready for the spring work.

By the way, ask for my proposition. It might pay for your spreader before the year is half done.

WM. GALLOWAY, President
WM. GALLOWAY COMPANY
107 Galloway Sta. Waterloo, Iowa



Freight Prepaid

Made in 5 Sizes

Lowest Price ever offered. Try it 30 days on your own farm.



FREE This book contains barrelsful of good information about Manure Spreaders and how to make money with them. Ask us for one—they are FREE!

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

May 20, W. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 2, J. G. Blier, Hartington, Neb., at Crofton, Neb.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Roife, Iowa.
 June 17, F. M. Zenor, Woolstock, Iowa.
 June 21, Jesse Binford & Sons, Liscomb, Iowa.
 June 28, Combination sale, Chicago, Ill., Sidney B. Smith, manager, Springfield, Ill.
 Dec. 6, Will C. Meyer, Carroll, Iowa.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
 Dec. 14, C. A. Saunders, Manilla, Iowa.
 Dec. 21, Ed Morgan, Kanaranzi, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 1-2, Chas. Escher & Son, South Omaha, Neb.
 June 7, James Williams, Marcus, Iowa.
 June 8, Stanley R. Pierce, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 June 29, Combination sale, Chicago, Ill., Sidney B. Smith, manager, Springfield, Ill.
 Oct. 4, Slias Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 18, Christian-Lang Co., Omaha, Neb.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.
 Oct. 25, R. M. Anderson & Son, Newell, Iowa.
 Oct. 26, Lakeside Farm, Storm Lake, Ia.

Guernseys.

May 18, Wisconsin State Fair Grounds, Milwaukee, Wis., Charles L. Hill, Rosendale, Wis., sales manager.
 May 19, Combination sale, Appleton, Wis., Dr. O. N. Johnson, Appleton, Wis., Secy.

Hereford Cattle.

June 30, Combination sale, Chicago, Ill., Sidney B. Smith, manager, Springfield, Ill.
 Oct. 20, H. D. Clore and Z. T. Kinsell, Chariton, Iowa.

Holstein-Friesian Cattle.

May 25, Consignment sale, Watertown, Wis., E. E. Randall, Hustisford, Wis., and Sidney Jones, Watertown, Wis., Mgrs.
 June 21, 22 and 23, Robt. E. Haeger, Algonquin, Ill.

Poland China Swine.

Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
 Sept. 24, J. W. Pfander & Sons, Clarinda, Iowa.
 Oct. 12, W. J. Crow, Webb, Iowa.
 Jan. 19, Jas. G. Long, Harlan, Iowa.
 Feb. 8, W. J. Crow, Webb, Iowa.
 Feb. 9, C. C. Polly, Whiting, Iowa.
 Feb. 10, James Cockerton, Whiting, Ia.
 Feb. 16, Theo. Martin, Bellevue, Iowa.
 Feb. 21, J. W. Pfander & Sons, Clarinda, Iowa.

Duroc Jersey Swine.

Oct. 28, W. M. Sells, Indianola, Iowa.

Percherons.

June 28, H. G. McMillan & Sons, Sioux City, Iowa.

Clydesdale Horses.

June 1, R. O. Miller, Lucas, Iowa.

Mules.

Oct. 19, C. C. Judy, Tallula, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Lincoln Hotel, Lincoln, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

On page 33 may be found the advertisement of Mr. R. J. Kidson, of Pontotoc, Ill., announcing that he has for sale one good eighteen-months-old Aberdeen Angus bull.

Indian Runner duck eggs of the best strain in the United States are offered for sale by Mr. Paul Sels, of Pella, Iowa, in his advertisement that appears on page 21.

Mr. M. A. McWilliams, of Wall Lake, Iowa, has about 100 spring and fall Duroc Jersey pigs on the farm, with a few more sows to hear from. Mr. McWilliams has built one of the very best hog houses in the state and he is now in position to look after the pigs. He has some good litters by old Orion J., also by a Colonel boar, and a number of good ones by a son of W. L. A's Choice Goods, as well as some by Guthrie Chief 2d. He has quite a number of young Short-horn bull calves on the place and the latest addition to the farm is a "rip-nailing" pair of registered Belgian mares that will weigh 3,600 pounds. When the fall season

shows up Mr. McWilliams will have a nice lot of boar pigs to offer for sale.

Mr. T. S. Cartright, of Marshalltown, Iowa, wants to hire a married man with a small family to work on a fine stock farm. The requirements are mentioned in his advertisement on this page.

Mr. W. H. Campbell, of Grand River, Iowa, is offering Polled Herefords for sale in his advertisement that appears on page 36. Mr. Campbell has animals of both sexes for sale, including one herd bull and cows bred to Success 4th, considered one of the best bulls of the breed.

The Meeker sale of imported Guernseys, which was scheduled to be held on May 19th upon the Wisconsin State Fair Grounds, has been called off. The entire herd or importation has been sold to an Ohio man. The cattle were picked from the herds of Guernsey Island by Mr. Charles Kitts, one of the most noted Guernseymen.

Mr. M. M. Elmendorf, breeder of Duroc Jersey hogs, at Lacona, Iowa, advises us that he had excellent luck this spring and can now show around 100 head of extra good March and April pigs. These are sired by sons of Ohio Chief, Crimson Wonder I Am and other lines of breeding on the sides of the dams that are beyond criticism.

In furnishing copy for her advertisement, found on page 21 of this issue, Mrs. C. H. Matteson, of Decatur City, Iowa, writes that her Barred Rock and Single Comb Rhode Island Red chickens are large, big boned and will stand the closest inspection. She has supplied the trade with eggs every week during the winter and will guarantee satisfaction. She is also quoting prices on Indian Runner duck eggs.

Messrs. O. H. Peasley & Sons, of Indianola, Iowa, are proprietors of the Chapel Ridge Stock Farm and breeders of high-class Shropshire sheep. Their flocks have been regular winners at the Iowa State Fair for the past five years. A little later in the season they will have for sale rams of various ages, a portion of them the get of Ludlow King, the imported Minton ram that has been a first-prize winner on both sides of the water.

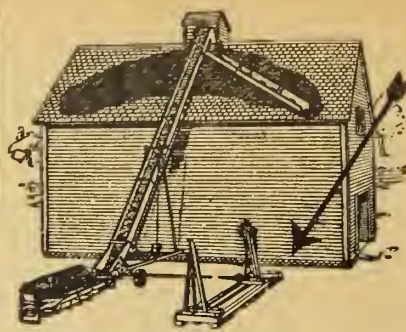
Mr. W. I. Mouser, Red Oak, Iowa, has started an excellent herd of Duroc Jerseys and has about fifty spring pigs so far this season. Mr. Mouser attended many of the leading public sales last winter and selected some of the very choice sows, and it will not be very long before he has a good herd. The Colonel and Ohio Chief blood predominate, and he has some of the other foremost strains, so keep him in mind when selecting your boars and sows this fall and winter.

Sheep raisers who have not yet sold their wool will do well to carefully consider the advertisement of Messrs. Weil Bros. & Co. as it appears on page 32. These advertisers have a financial responsibility of half a million dollars. They are located close to the great consumers and for various reasons are prepared to pay the highest market prices for wool. Their price list giving also other important facts, may be had by writing at once to Messrs. Weil Bros. & Co., Box G, Fort Wayne, Ind.

Messrs. Jesse Binford & Sons, breeders of Short-horn cattle, at Liscomb, Iowa, whose advertisement will be found on page 37, write under recent date saying: "We have, during the past few days, sold one bull to Mr. Peter Louks, of Gilman, Iowa, and one to Mr. J. D. McCulloch, of Nashua, Iowa. Both of these made choice selections. We still have some good, strong bulls of serviceable ages to sell to Homestead readers. We will make extremely low prices to those who come and make their selections in person."

Mr. N. A. Lind, proprietor of the Beaver Creek herd of Short-horn cattle at Rolfe, Iowa, announces his twelfth annual sale on June 16th, next. On that occasion Mr. Lind will offer fifty head of pure Scotch cattle. There will be forty females and ten bulls. Twelve of the cows will be sold with calf at foot, the others ranging in age from fourteen months up, and they are a choice lot of cattle. Most of them are daughters of Whitehall Sultan, a bull that now stands at the head of the herd. Among them are some outstanding show prospects possessing both excellence in conformation and approved breeding. Mr. Lind thinks this is about the best offering he has ever driven into a sale ring. The bull consignment is especially strong. Further announcements concerning this sale will be given at a later date.

Scotch and Scotch-topped Short-horn bulls of fashionable breeding and good individuality are being offered by Mr. F. M. Hall, of Friend, Neb. Mr. Hall has bred his cattle for milk, as well as beef, and has succeeded admirably along this line. One of the best that Mr. Hall is offering is a red bull, Bapton 2d, by Bapton Cruik, he by Straight Cruik, the bull that Mr. Healy, of Bedford, Iowa, used at the head of his well-known herd for three years and sired some of the best cattle that Mr. Healy ever sent to this part of the country. The dam of Bapton 2d is Lady Hall, she by General B. Lady Hall is one of the best milkers that Mr. Hall ever bred. Overton by Red President by Red Knight and out of Rose of Otoo, tracing to Imp. Rose by Skipton, is a young bull of great promise and you will make no mistake in selecting him. Forest King is a roan and is of the celebrated Duchess of Gloster family and is a calf of pleasing lines, nice disposition, a good mellow hide and will no doubt develop into a great bull. The other bull for sale is also a roan and of the Victoria family on the sire's side. His dam is La Belle 3d by Emperor, and traces to Imp. Mandan by Richmond. Parties interested in these



Hydraulic Grain Dump and Elevator

The only portable grain elevator furnished with a HYDRAULIC JACK. We have manufactured a number of different styles of jacks during the many years we have been in business, but have finally decided to manufacture no other than the Hydraulic Jack. We guarantee it will raise a load with less power and can be handled easier than any other jack. It absolutely does away with all the disagreeable features found in other grain elevators. It can be stopped automatically, lowered in a few seconds without power, or placed at any desired position. It makes the Camp elevator the king of all portable grain elevators.

MORE MONEY AND LESS WORK FOR THE FARMER

The progressive farmer of today—the one with a good head—is taking advantage of the short cuts made possible by modern inventions that save time and make farming less laborious. There is nothing cumbersome, complicated or unwieldy about a Camp elevator. It works perfectly, under all conditions and handles ear corn and shelled corn, oats, wheat, flax and all small grain. It is equipped with many different styles of elevators, spouts and conveyors which can be adapted to any building.

We have a very carefully prepared catalog, which will give you full information how to equip your barns or granaries for easily handling of your grain. This book is worth hundreds of dollars to the big corn raiser. A postal card inquiry will get it to your mail box in a few days. Can we send it?

Camp Bros. & Company, Washington, Ill.

useful cattle should write Mr. Hall at once for prices and full particulars. Please mention The Homestead.

The advertisement of Gabel's Wonder pig forceps, on page 35, deserves the attention of all farmers who raise hogs. This forceps is sent absolutely free on a thirty days' trial. For particulars address Gabel Mfg. Co., Hawkeye, Iowa.

Mr. F. W. McIntyre, breeder of Poland China hogs at Red Oak, Iowa, makes a change in his advertisement on page 33 that will interest those who want to buy Poland Chinas of either breed. This herd is made up of excellent blood lines and high individual quality. For special prices write to Mr. F. W. McIntyre, R. 5, Red Oak, Iowa.

Binder Twine Samples.

Free samples of binder twine may be had by any reader of The Homestead who forwards a request to Mr. Louis Losse, at 83 West Water St., Milwaukee, Wis., whose advertisement appears on page 16. This twine is sold direct to farmers at the low price of seven and one-quarter cents per pound. The quality is guaranteed to be as good as any other.

Cheap Iowa Lands.

Messrs. J. G. Chrysler & Son, of Lake Park, Iowa, advertise on page 18 that they have several fine farms for sale. These are located in northwestern Iowa. In particular there is one piece of 297 acres, unimproved land, in Osceola county that can be had for \$50. It is in a vicinity which is fully improved, located only three and one-half miles from a good town and otherwise quite desirable. Write to the address named for additional facts.

The Spartan Hay Loader Hay-Car.

The Spartan Mfg. Co., manufacturers of the Spartan Loader Hay-Car, have an announcement in this week's issue. The Spartan is a time saver and, therefore, a money saver. It reduces by half the labor necessary to get the crop of hay in. As a fact, any up-to-date farmer cannot afford to be without it! Full information concerning it may be had by writing the Spartan Mfg. Co., Dept. 61, Pontiac, Ill. See page 31.

Humbert & Son's Young Percheron Stallions.

We desire to call attention to the twelve young two-year-old Percheron stallions that Messrs. E. H. Humbert & Son, Corning, Iowa, are now offering for sale. These are all blacks and grays, are not loaded with fat, but are in nice condition and they say for us to tell our readers that they will sell these horses worth the money. If you want one of these young stallions it will pay you to go and see the above firm.

Confidence is a Great Thing.

It was confidence that prompted Mr. A. Christian, of York, Neb., to go to the East some six years ago and purchase some of the highest class of Angus to be found there, selecting the choicest specimens of some of the most noted herds, several of them being imported. Eastern breeders knowing that the Angus breed was comparatively new in Nebraska, thought it possible to make a mistake in buying this class of cattle for this territory. Mr. Christian relied saying, "Nothing is too good for Nebraskans." That they were not too good for Nebraskans, and that his confidence and judgment were not misplaced has been duly proven by the sales Christian Clover Leaf Farms have been making all along the line. Last week Mr. W. H. Breeze, a farmer-stockman of Boone county, purchased the double Blackbird bull, Blackbird Prince Yorklawn, paying for him \$200. Mr. Breeze expressed himself as well satisfied with his purchase, adding that he had only grade cows and had been buying his bulls for from \$75 to \$100. Mr. Roger Fitzpatrick, of Greeley county, purchased a yearling show prospect at the just figure of \$250. He will use him to head his herd of seven Angus cows. The Christian-Lang Company now have in their two herds probably more Blackbirds, Prides, Trojan Ericas and Queen Mothers than any firm west of the Missouri river. This

There's the Difference

Our Hydraulic Jack

Saves all the trouble to be found in other grain elevators. No chain, ratchet or worm gear. Raises with less power; lowers without power.

The Camp Hydraulic Grain Dump and Elevator

The only portable grain elevator furnished with a HYDRAULIC JACK. We have manufactured a number of different styles of jacks during the many years we have been in business, but have finally decided to manufacture no other than the Hydraulic Jack. We guarantee it will raise a load with less power and can be handled easier than any other jack. It absolutely does away with all the disagreeable features found in other grain elevators. It can be stopped automatically, lowered in a few seconds without power, or placed at any desired position. It makes the Camp elevator the king of all portable grain elevators.

MORE MONEY AND LESS WORK FOR THE FARMER

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We have a very carefully prepared catalog, which will give you full information how to equip your barns or granaries for easily handling of your grain. This book is worth hundreds of dollars to the big corn raiser. A postal card inquiry will get it to your mail box in a few days. Can we send it?

Camp Bros. & Company, Washington, Ill.

OSGOOD "Defiance" Wagon Scale

Who weighs the products that you buy and sell? If you use somebody else's scales, you're getting more or less "by guesswork." Install an Osgood Scale of your own and KNOW your weights—get full value for everything. Many styles to select from. Prices within your reach. Write for Catalogue Osgood Scale Co., 103 BIRMGHAMTON, N.Y.

WANTED—A Married Man

WITH small family who is a good hog raiser and cattle feeder and handy with tools; good wages and steady employment to competent man. Address T. S. CARTWRIGHT, Marshalltown, Iowa.

firm have sold cattle to all the states adjoining Nebraska and will make a public sale at South Omaha, October 18th. Watch in these columns for further particulars which will appear from time to time.

Bryant Offers Hereford Bulls.

Mr. W. C. Bryant, of Princeton, Ill., starts an advertisement in this issue of The Homestead offering twenty-two yearling and two-year-old Hereford bulls. These bulls are blocky, well-marked, good-colored bulls that are of good conformation. They are rugged and would be suitable for the farmer or ranchman. They are the type that will sire market-topping steers. They are all sired by Columbus 54th, a richly-bred bull and a good individual. These bulls are priced so that any good farmer can well afford to own one. If any of our readers are in need of a good registered Hereford bull or a car load of them we would advise you to look up Mr. Bryant's advertisement on page 33 and write him at once. When writing please mention The Homestead.

The Rank of the De Laval.

In our country the interpretation of the principle of right is perhaps made by the application of the political principle that the majority rules. From this it follows that if a majority of people take up any one plan the action would indicate superiority. This certainly applies to the use of separators, as well as in politics. The big advertisement on page 13 of this paper gives a splendid list of parties who own and use the De Laval separators. Among them will be found the names of bankers, merchants, lawyers, physicians, editors, actors and dairy farmers, as well as the farmer who does not make dairying a specialty. The occupations named cover a wide range and their intelligence should be unquestionable. Their selection of the De Laval is based upon cold blooded consideration of its merits as compared with that of others. What these men have done should be a strong hint to farmers who do not yet own separators, and, by the way, no farmer can at this time afford to run a farm unless he does have a cream separator.

How to Sell Farms.

There is often considerable difficulty encountered by the farmer who has made up his mind to sell his farm. The troubles usually are that he is unacquainted with the best methods of reaching those who wish to buy farms. There is no question but that at the present time there are more buyers than sellers, and it is therefore of interest to the sellers that there is a means of getting the two classes together with a limited expense. We refer to the farmers' classified selling market of the Chicago Tribune, which is described fully on page 7 of this paper. The Tribune is a daily newspaper of established reputation and extraordinary wide circulation. It reaches such a great number of people and among so many different classes that its advertisements are certain to reach those for whom they were designed, and through the plan which the Tribune presents the cost of establishing communication between buyer and seller has been reduced to an extraordinarily low figure. However, all these facts are fully set forth in the advertisement referred to. All the man has to do who wants to sell his farm is to write out in the blank provided in the

advertisement, the few words of description necessary to make an advertisement, cut out the coupon and forward it to Classified Advertising Department D., the Chicago Tribune, Chicago, Ill.

The Porter Hay Carrier.

The advertisement of the Porter hay carrier will be found on page 27. The Porter is a device which has been in use for a score of years. It is plainly illustrated in the advertisement so that no further description need be given. Its long term of use is an excellent recommendation. Catalog giving full and complete descriptions of all the Porter hay tools may be had by writing J. E. Porter & Co., Ottawa, Ill.

When Buying a Herd Bull

as much attention should be given to the dam as the sire. Mr. G. E. Stryker, Rising City, Neb., is offering a Hereford bull of herd header build that has for dam one of the best Hereford cows in the land. This splendid cow has great size, weighing right at a ton. Combined with great scale is very good milking capacity, making her one of the most desirable cows to be found anywhere. The sire of this young bull, Tommy B., is a grandson of the famous Wild Tom, which, it will be remembered, has been one of the greatest sires the breed has ever known. For full particulars and price address Mr. Stryker as above, mentioning this paper. See page 35.

Thomas B. Jeffery Dead.

Within the past few weeks daily papers have given information as to the death of Mr. Thomas B. Jeffery, the head of the firm of Thomas B. Jeffery & Co., manufacturers of the Rambler automobiles. It will be a satisfaction to the friends of the old firm to know that Mr. Chas. T. Jeffery, son of Thomas B. Jeffery, and for nearly a score of years partner with his father in the business, has now assumed complete control of the manufacture and sale of the Rambler. Mr. Jeffery has himself contributed to the development of the automobile interest and is widely known. It is announced that the business policy of the firm will continue without change.

Elder Offers Duroc Boars.

Mr. Frank Elder, of Green, Kan., has been particularly successful in bringing through the winter a fine string of Duroc boars. These are sons of King of Cols. II. and G. C.'s Col., the two great Colonel boars that head Mr. Elder's herd. The dams are all Model Chief Again sows and this is the cross that has produced the best pigs by King of Cols. II. and G. C.'s Col. Our readers will not be disappointed with one of these boars if they want scale and quality. Mr. Elder has a fine lot of spring pigs coming on and will be in line again this fall with both boars and gilts. His prices on those summer and fall boars are right and they will make good. See page 34 for Mr. Elder's advertisement and when writing him kindly mention this paper.

Spartan Kid 2d 288181 For Sale.

On page 33 of this week's Homestead Mr. W. H. Mayne, of Harlan, Iowa, advertises his splendid Hereford herd bull, Spartan Kid 2d, for sale, and he is not only a good bull, but he is a bargain at the price he is asking. This bull is a son of Spartan Grove 2d, dam Ruby's Rose by Sir Edwin, and he traces to such noted sires as The Grove 3d, Anxiety 4th, Sir Bartle Freer and old Lord Wilton. He is a three-year-old bull and in splendid condition. Mr. Mayne has recently bought a new bull named Gay Donald 14th and therefore can spare the older bull. This new bull is a son of Beau of Shadeland 31st by Beau Donald 28th and his dam is the well-known show cow, Monarch's Maid, she by the 2,800-pound bull, Monarch of Shadeland. The Hereford breeder who is looking for a bull to head his herd will be pleased with Spartan Kid 2d. He is a good-headed bull with a nice drooping horn, thick and compact, and a good breeder. Mr. Mayne also has about eight young bulls for sale. These are all sired by Emerald, a son of the noted show bull, Ike, and they

are out of daughters of a son of old St. Louis. These bulls he is pricing at from \$75 to \$100. If you want one of these you had better write to Mr. Mayne at once. Kindly mention The Homestead when doing so.

Valuable Kansas Farms.

Mr. M. J. Bidwell's advertisement on page 18 offers our readers some important information concerning improved Kansas farms which that gentleman has for sale. These farms are located near the town of Severy. One of them contains eighty acres, another 160 and still another 320 acres. Mr. Bidwell is not a real estate dealer; he is simply an owner who has these three tracts for sale and not being in need of ready cash will sell on terms to suit the buyer. The first piece is quoted at \$45, the second at \$35 and the third at \$30. It looks like these lands were bargains. Further particulars may be learned by writing Mr. M. J. Bidwell, Severy, Kan.

A Desirable Quarter Section.

A splendid bargain in a quarter section of land in Clay county, Minnesota, is offered for sale in the advertisement of the Ellsworth-Jenkins Company on page 18 of this issue. The farm is located within a half dozen miles of the city of Barnesville, a place of 5,000 people. It has all the conveniences of good schools, churches and an excellent community. The farm itself has improvements costing about \$2,000. It is practically all tillable, well drained, has a good well and fences and for the farmer who wants to make a pleasant and profitable home it has few equals. The price quoted is \$42 per acre with liberal terms to responsible buyers. This farm is but one of the numerous bargains that may be had by addressing a request to the Ellsworth-Jenkins Company, Fargo, N. D.

Col. C. W. Smith.

With this issue of The Homestead, Col. C. W. Smith, of Fairbury, Neb., starts his auctioneer's card soliciting a share of the business of those who contemplate holding auction sales of any of the breeds of pure-bred live stock. Colonel Smith has been actively engaged in the auction business for fifteen years and has sold for some of the best breeders in the country, and has them booked again. He is an expert judge of live stock, temperate in habits and prompt at the sale ring. He has made a financial success of his own business and is in a position to impart his ability to those who employ him. A good judge of human nature and the values of live stock, he is himself an extensive buyer and has the confidence of all who have done business with him. Colonel Smith also has one of the best sale pavilions in Nebraska and at one of the best selling points in the state. The terms that Colonel Smith is making are very reasonable, and remember that he would be pleased to figure with you regarding dates best suited to your sale and will do all in his power to bring your sale to a successful end. See page 34.

Duroc Fall Gilts and Boars.

Messrs. Chapin & Nordstrum, of Green, Kan., are rapidly building their herd of Durocs along lines Mr. Chapin followed when alone in the business. The King of Cols. strain is most in evidence in the pedigrees and heading the herd is G. C.'s Kan. Col., a phenomenal son of Mr. Frank Elder's great breeding boar, G. C.'s Col. by old King of Cols. Just now these gentlemen are offering fall gilts and boars by G. C.'s Kan. Col. and out of dams by King of Cols. II., Kelley's Pilot Wonder, W. L. A.'s Choice Goods and Model Chief Again. They are a choice lot. The gilts will be bred for fall litters to a good son of King of Cols. II. and out of a W. L. A.'s Choice Goods dam, a few to Nebraska Wonder, the best son of old Crimson Wonder, from whence sprung the Crimson Wonders that have made such a show record. One of these fall boars went to Mr. W. L. Addy, of Nevada, Mo., and Mr. Addy says he is the best prospect he has seen or had in many years. There are several of just this sort in the bunch and our readers will make no mistake if wanting gilts bred or open or fall boars. See page 34 for Messrs. Chapin & Nordstrum's advertisement and when writing them kindly mention this paper.

Many Sales of Holsteins.

Mr. W. R. Gates, proprietor of the Shady Nook herd of Holstein-Friesian cattle, at Fort Atkinson, Wis., writes: "We have sold the noted bull, Shady Nook Pontiac Hengerveld, to Messrs. Custer & Butler, of Missoula, Mont.; one bull to Mr. C. M. Gailbraith, Endeavor, Wis.; two cows and a bull to Mr. Samuel Greske, Courtland, Minn. (the dam of this youngster has a record of twenty-four pounds and four ounces, price received \$150); two cows to Mr. Albert E. Anderson, Goodhue, Minn.; three cows and one yearling bull to Mr. J. C. Rutledge, Clare, Iowa; one bull to Mr. August Krause, Seymour, Wis.; one bull to Mr. N. W. Wachorn, Livingston, Wis.; one bull to Mr. R. P. Hoadley, Three Oaks, Mich.; four cows and four heifers to Mr. J. H. Armstrong, Fort Atkinson, Wis.; one bull to Mr. G. W. Pollock, Ft. Atkinson, Wis., and many others that I will not take up your valuable space to report. I just returned from Utica, N. Y., with the choicest selection of seventeen females and one two-year-old bull that I ever owned. The bull, in breeding, is a superior animal as well as a great individual. His dam, Allie Nig, A. R. O. 25.49 pounds of butter in seven days, is the dam of two daughters, one Allie Nig 2d 25.98 and the other Allie Woodcrest 21.50 at three years of age. His sire, Pietje 22d's Woodcrest Lad, is a son of the great cow, Pietje 22d, with A. R. O. 31.62 pounds of butter in seven days and 128.38 pounds of butter in thirty

DO YOU NEED SEED CORN THAT WILL GROW?

We have it, all raised on our own farms, tests 95 per cent or better. From fields that produced over 75 bushels per acre last year.

OUR GUARANTEE IS:

If on receipt of corn it is not as we represent, return at our expense and we will refund your money. If you are in doubt, come, see our corn and if we have misrepresented anything we will pay your expenses to and from Liberty.

PETTY'S EARLY DENT

Yellow matures in 110 days.

PETTY'S ECLIPSE YELLOW

Matures 90 days.

CLAY COUNTY WHITE

Matures in 95 days.

**HIGH GRADE \$2 PER BU.
EXTRA SELECT \$2.75 BU.
CRATED EARS \$4 PER BU.**

We refer you to Commercial Bank, First National Bank or Citizens' Bank, all of Liberty, Missouri. Furthermore we are seed corn producers and market our own production exclusively. As the season is on send your order—we guarantee satisfaction.

PETTY BROS., BOX 4, LIBERTY, MO.

DAKOTA YELLOW DENT

1908 CROP

Guaranteed 85% or better

\$3 PER BUSHEL

This corn is well sorted, shelled and graded.

O. S. JONES SEED CO.

SIoux FALLS, S. D.

days. The above bull, named Woodcrest Pietje Nig, heads my fine herd. The entire load was purchased of the Brothertown Stock Farm, Deansboro, N. Y."

A Wisconsin Farm For Sale.

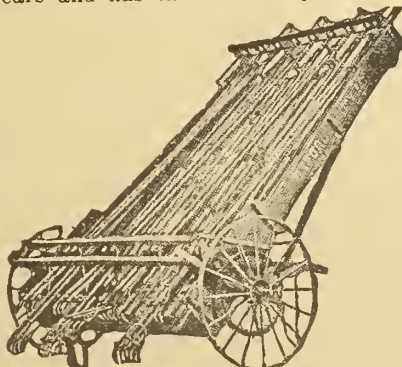
The advertising department of this paper, on page 18, contains the announcement of Mr. M. J. Bell that he wishes to dispose of his Bellwood Farm, located in Douglas county, Wis. This farm contains something over 1,000 acres of land, a part of which is cleared and in cultivation. It is well improved with a good residence, store and office buildings, granary, chicken house, store house and blacksmith shop. It has plenty of good water and the conditions are all favorable for the location of a high-class stock and dairy farm. The price is quoted at \$16,000, but liberal terms for payment will be made. The owner has, in addition to this, other and smaller tracts of land, concerning which he will be glad to give additional information. For particulars write to Mr. M. J. Bell, Bellwood, Wis., or care of the Bell Lumber Company, Minneapolis, Minn.

Duroc Jersey Fall Boars For Sale.

If any of our readers are in need of a fall boar, large enough for service, they should look up the advertisement of Mr. W. R. Childs on page 34. He has twenty September boars that are big-framed fellows, but not fat. They are sired by Shabona by Highland Duke by Chief of All, a Protection-bred boar. The dam of Shabona is Lady Chief by Golden Crown. The dams of these boars are sired by Ambition, Tip's Pride, Big I Am, Dawson C., Cash Register and Schuyler Prince. These boars have not been pushed, but have been well grown without putting on much fat. They are just right for service and are priced very reasonable. Mr. Childs has a fine lot of spring pigs sired by Col. Stoner by King of Cols., Duchess Col. by Harding's King of Cols. and Manley Orion, son of the boar now at the head of the herd. He is sired by Manley Orion and has lots of size and quality. He has proven himself a good breeding boar and Mr. Childs is to be congratulated upon having such a boar at the head of his herd. If any of our readers need a fall boar they should write at once to Mr. W. C. Childs, of Princeton, Ill. When writing please mention The Homestead.

The Oxford Hay Loader.

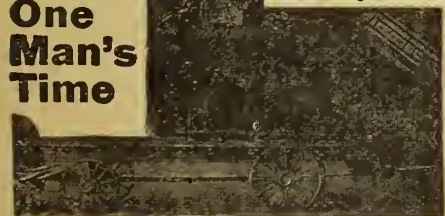
The Oxford rake and loader herewith illustrated is a machine the value of which is best appreciated after a trial. It has been in use in the vicinity in which it is made for more than twenty years and has there built up such an



excellent reputation that a large proportion of those who have used it give expression to the sentiment that they would use no other. Its points of superiority have been set forth in the advertisement which has appeared in these columns from time to time. Its light draft, its durability, its direct gear drive and the fact that one man may operate it are arguments in its favor that cannot well be offset. Prices

Save
One
Man's
Time

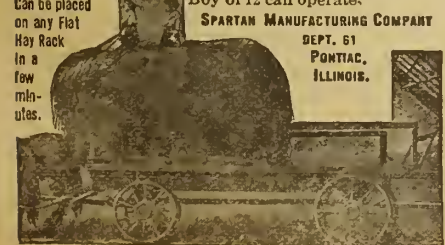
LOAD AND UN-
LOAD QUICKER.



A man's time saved doubles your money. You save money in handling the crop. You use the time saved to make money on something else. Quicker loading means better hay. Beat rain to the Hay Field with a

HAY LOADER HAY-CAR

Puts load in better shape for unloading with harpoon. Load taken up perfectly clean. Hay does not string, does not double under or wad. Easy to mow away.



Can be placed on any flat Hay Rack in a few minutes.
Boy of 12 can operate.
SPARTAN MANUFACTURING COMPANY
DEPT. 61
PONTIAC, ILLINOIS.

parties not finding just what they want at the sale will be welcome to visit the farms of any of the contributors. All of these breeders live in the vicinity of Watertown. Catalogs will be sent on application by mentioning The Homestead. Apply to Messrs. E. E. Randall, of Hustisford, Wis., or S. B. Jones, of Watertown, Wis.

Shetland Ponies For Sale.

On page 33 of this week's Homestead will be found the advertisement of Mr. H. W. Littleton, of Harlan, Iowa, who is offering eight head of Shetland ponies for sale ranging in age from one to eight years of age, and he is pricing these at from \$65 to \$100. He also offers one black five-year-old Shetland stallion for sale and he is as topsey as a peacock. Then he also has a two-year-old Percheron stallion for sale and any of these can be bought right. If you want Shetlands here is the opportunity to buy them and buy them right. Kindly mention The Homestead when writing Mr. Littleton.

Work for the Bug Killer.

It was the funny man who said that a bed was not a bed when it was a little buggy. The advertisement of the O. S. Jones Seed Company, on page 5, certainly looks a little buggy. It, however, performs its purpose of calling the attention of potato raisers to the need of some method of killing potato bugs. The plan of spraying has been, of course, effective, but it has had its disadvantages and the Jones Seed Company have, by extended experimentation, evolved a method of reducing the amount of work without in any way destroying the effectiveness of the work. From three to five pounds of dry bug killer are sufficient for three acres of land. The killer is put on dry, as indicated in the engraving in the advertisement, so there is no need for a great wagon load of water to toil along with it. The killer is continuous in its effect, as one application will stick to the vines and protect them during the entire season. It is sold at the low price of forty-five cents per pound. Orders should be forwarded to the O. S. Jones Seed Company, Sioux Falls, S. D.

Williams Bros.' Poland Chinas.

On page 34 of this week's issue we begin the advertisement of Messrs. Williams Bros., of Villisca, Iowa, owners of one of the very best herds of Poland Chinas in southwest Iowa. Their type is the "big type with quality combined" and when founding their herd they selected the best big-type sows that were offered in the leading public sales throughout the West. These men believe in plenty of size, but they want the quality with it, and they have both. Among the leading strains of big-type Poles that they have in their herd are the Giantess, Mayflower, Tecumseh and Nodaway Belle strains, and no herd in the state can show a better lot of brood sows than these men have in their herd. The boars they have at the head of their herd are bred along the same lines, and are as follows: W's Major 45234, a grandson of old Blaine's Tecumseh, and he is one of the recognized breeding boars in the state today; Pawnee Price 47721, a son of old Pawnee Lad, the greatest breeding boar ever used in southern Iowa; Young Look 47722, a son of Big Tecumseh, and Villisca Chief, a grandson of Grand Look. These boars are the sires of the present pig crop, the best we have ever seen on their place at this time of the year. They have 275 head of spring pigs—boars and sows—and they are now offering these for sale at \$25 each. They have some January and February pigs and the rest came in March. These gentlemen can sell you a boar pig and sows not akin, and it is a splendid time to buy. If you buy a pig of them now you get the benefit of the reduced rate, and they will pick you out a pig that is among the best they have in their herd. You can then grow them out yourself and you save in express charges and in many other ways. Messrs. Williams Bros. absolutely guarantee their stock and what they ship you must be satisfactory in every way. This is certainly a liberal offer, but that is the way they do business. Buy your boar pig now and save the extra expense of securing him in the fall, and also send them an order for a few good gilts not related. This firm are absolutely reliable and you can de-

TOO LATE TO CLASSIFY.

FLORIDA!

THE LAND OF PERPETUAL SUNSHINE AND BIG PROFITS

WAIT the man of limited means. Climate ideal. Where millionaires and health seekers spend their vacations. Truck growers making from \$800 to \$1,500 per acre annually on an average of the last five years. State of Florida behind drainage proposition. Fortunes are being made in our ten-acre tracts. Prices \$1 per acre down, \$1 per acre per month. Land exempt from interest and taxes during term of sale. **AGENTS WANTED.** We have vacancies for high-class land men; liberal proposition. Write today for agent, in your territory.

MIAMI EVERGLADE LAND CO.,

365 New York Life Bldg., Kansas City, Mo.

160 IOWA FARM CHEAP We got on a trade deal, and will sell at low price for quick sale a fine 160 farm, well improved, in Cerro Gordo County near Clear Lake. Neighboring farms held at \$75 to \$85. Will sell this farm at \$60. The Kelly Land System, 7 News Arcade, Des Moines, Iowa.

pend on what they tell you. When writing them kindly mention this paper.

Saginaw Silos at Cut Prices.

Last season the manufacturers of the Saginaw silo took advantage of low markets and bought an unusually fine lot of lumber. Because of this they are now ready to sell the famous Saginaw silos as cheap as the price asked for the ordinary kind. This offer, however, is good for only thirty days. To take advantage of it our readers must write within that time. No silo has a better reputation than the Saginaw. It is especially constructed for both the dairy and beef breed cattle. It is much better at any time to buy a Saginaw than the ordinary cheap silo. Now, as the Saginaw can be bought for the same price as asked for the cheap kind, there is no reason why the farmer who is considering buying one this year should hesitate a minute. The company could only put out a limited number of silos at this price, therefore the offer is good for only thirty days. Write today to the Farmers' Co-operative Produce Company, 200 9th St., Des Moines, Iowa, for their free catalog and price list. See page 12.

Seed Corn That Will Grow.

The O. S. Jones Seed Company, of Sioux Falls, S. D., advertise seed corn that will grow, on page 31 of this issue. A representative of The Homestead who is also specially interested in the seed corn proposition, has on different occasions purchased seed corn that proved to be valueless. Recently he took the precaution to investigate the Jones seed corn and after the inspection of several tests made by different firms, found that the Jones corn germinated strong from 85 to 95 per cent. He purchased a number of bushels of it for his own use. The Jones corn is called Dakota Yellow Dent. It was grown in 1908 and having been well cared for is in excellent condition. The Jones Seed Company sell and thoroughly grade this corn, sending nothing but good kernels. It is sacked and put on board cars at Sioux Falls at the rate of \$3 per bushel, and sold under a guarantee to grow 85 per cent or better. As there remains but a limited supply of this good corn on hand our readers would do well to forward their orders without delay.

Bixler's Scotch Bulls.

Those of our readers who want to buy a good Scotch bull should go and see Mr. S. A. Bixler, of Corning, Iowa. He offers a most excellent yearling called Rex Dictator 2d, a son of Diamond Rex, which in turn was a son of Imp. Cock Robin. He is out of the splendid cow, Imp. Dalmeny Mina 5th by old Dictator. He is a red roan and a herd-heading proposition for some breeder to buy. Royal Rex is a two-year-old by Diamond Rex and out of Dalmeny, a daughter of Imp. Dalmeny Mina 5th. Here is a splendid red bull and one that will suit most breeders. Then he has two younger bulls, Royal Rex 2d and Royal Rex 3d, full brothers of the above bull, that are also good bargains. Another good bull is Mina's Stamp, a coming two-year-old by Royal Mina and out of a dam by Diamond Rex. These Scotch bulls can be bought well worth the money and if any of our readers really want a good Scotch bull at a reasonable price they can secure them of Mr. Bixler. He also has a number of Scotch-topped bulls that are bargains at the price he is asking. When writing him kindly mention The Homestead. See page 37. Nebraska Wonder, Crimson Wonder's Greatest Son.

Every Duroc breeder who has followed the winnings made at the Iowa, Nebraska and Illinois State Fairs is familiar with the winnings that have been made by descendants of the immortal Crimson Wonder and that as many of his sons and daughters have been returned winners as have sons and daughters of any other Duroc boar. One of Crimson Wonder's greatest sons, Nebraska Wonder, landed in the good breeding herd of Mr. Chester Thomas, of Waterville, Kan. He made good with a vengeance. His sons and daughters went from Mr. Thomas' herd as rapidly as they could be gotten out, farmers came to Mr. Thomas and paid as much as breeders pay for breeding stock, hence Nebraska Wonder's get in but few instances went to breeders who are showmen. One son landed in the herd of Messrs. Bardwell & Barnard, of Kentucky. Nebraska Wonder sired the celebrated Vail's Wonder, said to be the greatest boar of the year 1908, but died just before the fall shows opened. He also sired Belle's Wonder, a boar that has headed Mr. J. B. Walker's herd in Missouri for several years and making good, and throughout north Kansas there is scattered a string of sows that are held above price. For two years Mr. Grant Chapin has tried to secure Nebraska Wonder from Mr. Thomas and last week arrangements were made whereby Mr. Chapin secured a half interest in this great boar. Two years ago Mr. Thomas and Mr. Chapin exchanged breeding services with Nebraska Wonder and King of Cols. II. on four sows; the result proved to both these gentlemen that the Colonel strain and Nebraska Wonder made a most desirable cross. Mr. Thomas today has one of the greatest yearlings of the country as a result and as he had so many daughters of Nebraska Wonder Mr. Chapin persuaded him to make a price on a half interest on the old boar and he will be used in both herds. This means much to the Duroc breeders of the West, as the mating of Nebraska Wonder and the Colonel strain produced a very high class of stock with scale and quality. Messrs. Chapin & Nordstrum may congratulate them-

selves on securing this great sire. It means much, as he is not an experiment on the strains they are promoting. Mr. Thomas dislikes to see the old boar move from the farm, but as he could only use him on a few sows he sacrificed feelings in the matter in order that Nebraska Wonder might go where he would have increased opportunities.

Wade's Poland Chinas and Short-horns.

Mr. O. E. Wade, of Rising City, Neb., still has on hand a few right good Short-horn bull calves and yearlings that should please the most critical, and as Mr. Wade raises stock to sell, he has priced them with that end in view. What have you decided to do about breeding for those fall pigs? It looks like, with the world-wide shortage, it would be a wise move, but do not think that you can afford to use a common boar at the present price of hogs. Better get in touch with Mr. Wade and get his prices on the three good boars of September farrow that he has now for sale. Two of the boars are sired by Wade's Jumbo and out of an Orphan Boy sow. The other one is equally well bred and they are all in fine condition. For full description and prices address Mr. Wade as above, mentioning The Homestead.

Highly Desirable Canada Land.

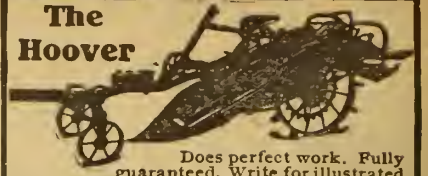
In an advertisement on page 18 Messrs. Cook Bros. make some interesting announcements concerning improved farms which they have for sale in the vicinity of Arcola, Saskatchewan, Canada. The advertisement will bear careful reading. The location is most desirable, less than fifty miles north of the United States line, and one whose merit is recognized by thousands of English-speaking people who have gone there from the western portion of the United States, from eastern Canada and from Great Britain. The farms are all situated within a section fifteen miles square in which there are two competing lines of railroad, four towns, seven postoffices, sixteen schools and a number of churches. The land is of the most productive character, the yield of wheat, oats and barley running high. During the past nine years from 600,000 to 800,000 bushels of grain have been shipped from the town of Arcola alone and one year the amount reached 1,100,000 bushels. Cattle, horses and hogs are profitably produced. There are a great many other important facts of high interest to those who contemplate a change of location and in particular those who are on the lookout for low-priced lands located in sections where there is a certain upward tendency of values. These facts, however, may be obtained fully by addressing a request to Mr. R. H. Cook, 533 Utica Bldg., Des Moines, Iowa, a member of the firm of Messrs. Cook Bros., whose headquarters are at Arcola, Saskatchewan, Canada.

The Missouri Duroc Jersey Herd.

The Missouri herd of Duroc Jersey hogs, owned by Messrs. E. W. Davis & Co., of Glenwood, Mo., was visited by a representative of The Homestead last week. While the herd is a comparatively young one it has been founded by the intelligent selection of strains that have built up other good herds and that are really the backbone of the breed. The principal herd boar in use is Champion Wonder 90211, a grandson of Tip Top Notcher on his sire's side and of Ruby Wonder on the side of the dam. There is a world of good breeding and prize-winning blood in his pedigree. The splendid crop of pigs in the herd at the present time are an indication of his value in that respect. A young hog in service is Col. D. 90483, a May yearling sired by Whitehall Col., he by King of Cols., dam a granddaughter of Buddy K. 4th, and back of that an excellent line of Iowa breeding. This young hog is an animal of excellent proportions with a long, broad, well-ribbed back and a good deal of style to his credit. Messrs. Davis bought a few good sows last spring and from these have a number of excellent litters. One of them is Rubertha X. 242920, a daughter of Golden Rule that came from the Watt & Foust herd. She has a litter of excellent March pigs by High Model, a son of Model Chief that is well appreciated in Ohio circles. Another of these sows is Edna's Model 42450, a March two-year-old that was winner of first in junior yearling class at the Ohio State Fair last fall. She is a daughter of High Model, above referred to. Her dam was of strong Ohio Chief breeding, and a sow that Mr. Watt considered one of the most profitable he ever had on his farm. This sow has a litter by Nugget 26801, a son of Golden Rule. Nugget was four times a winner at the Ohio State Fair last fall, taking junior championship, first in class, at head of herd and in a lot that won as get of sire. Still another one is Ivy C. 4th, a granddaughter of Ohio Chief and Kant Be Beat. She has a very fine litter by Premier Col., he a son of King of Cols. The other brood sows in the herd are daughters of Big I Am, 2d Climax, Model Chief, etc., and are from lines of blood that promise to develop well. Messrs. Davis are located within a stone's throw of the depot at Glenwood Junction, Mo., a crossing of the Wabash and K. & W. branch of the C. B. & Q. Visitors can visit the farm and not lose any time whatever, as train connections are good. They invite correspondence and a personal investigation of their herd. They have gone into the Duroc Jersey business as a permanent feature of their large farming operations, and while as yet their accommodations and requirements are not just what they want they are rapidly at work getting them in shape and it will not be very long until the Davis herd will rank as one of the leaders of that state. They are now

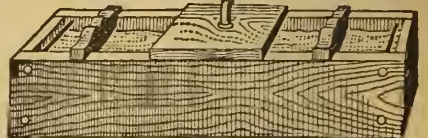
POTATO DIGGER

The Hoover



Does perfect work. Fully guaranteed. Write for illustrated catalogue of Diggers, Pickers and Sorters. THE HOOVER MFG. CO., Box No. 41, Avery, Ohio. Transfer points—Buffalo, N. Y.; Detroit, Mich.; St. Paul, Minn.; Marshalltown, Ia.; Idaho Falls, Id.; Portland, Ore.; Spokane, Wash.; Winnipeg, Man.; Hamilton, Ont.; Fond du Lac, Wis.

"Only" Hog Waterer



THE ONLY does the business both winter and summer. No clogging, no overflow, no bother. We offer you a free trial. Write for booklet, "How to Raise 1,000 Hogs a Year."

ONLY MFG. COMPANY, Lock Box 67, Calliope Station, Hawarden, Iowa.

WOOL DON'T SACRIFICE YOUR WOOL

Save Middleman's profit—From Grower to Mill. Get our prices before you SELL A POUND. Our outlet is enormous. We charge no commission, grade HONESTLY, and remit immediately on receipt of wool. Send for our Price List, TODAY. Note our location, close to the great consumers, and our responsibility. Capital \$500,000 paid.

WEIL BROS. & CO., Fort Wayne, Indiana.

ready to book orders for male pigs to be shipped at weaning time. Sows will be held for a brood sow sale to be announced later. They have also for sale a couple of fall and winter boars of nice lines of breeding, on which reasonable prices will be quoted. Note the advertisement on page 34.

The Cutler Short-horn Sale.

On May 20th, at his well-known "Canna Hill" Farm, midway between Corydon and Chariton, Iowa, Mr. W. E. Cutler will again come before the public with a splendid draft of Short-horn cattle. Included in this sale will be about forty-five head, a liberal number of which will be Scotch cattle of the leading families. There will be Victorias, Orange Blossoms, Lavenders, Duchess of Glosters, Broadhooks, Fleur de Lis and Rosemarys among the more noted Scotch tribes, while the Scotch-topped sorts will be well represented by some splendid individuals of the popular American families. There will be thirteen bulls in the sale headed by his splendid three-year-old Scotch bull, Champion Commodore. This bull was bred by Messrs. Cookson Bros., of West Branch, and was selected as a calf for the Cutler herd. He belongs to the famous Cruickshank Broadhooks tribe and was sired by the noted bull, Young Commodore, that for years headed the Cookson herd. The dam of this bull is Imp. Scarlet Spangle, one of the very best cows today in the state of Iowa. The dam of this bull sold in the Cookson Bros. sale when nine years old for \$450. This bull is a full brother to King Broadhooks that sold in the Cookson sale for \$450 as a yearling, and he was also a full brother to Admiral Broadhooks, the two-year-old bull that sold in the dispersion sale of Mr. J. E. McCorkle for \$400. This bull has been used in the Cutler sale with the greatest of success and is now being sold simply because Mr. Cutler is retaining his heifers in the herd. We therefore say to those Short-horn breeders who are looking for a herd header to attend this sale and look into the merits of this bull. He is a bull of splendid scale and his breeding cannot be excelled. The young Scotch bull that he is selling is Choice Broadhooks, a son of the above bull, and out of Golden Lis, a daughter of Mr. Ernest Funke's noted bull, Golden Champion. Besides these are also a number of very good Scotch-topped bulls. In fact there will be bulls both for the breeder and the farmer in this sale. In females he is also offering a choice variety and a good lot from beginning to end. Among the more choice females that he will sell at this time is Queen Gloster, a six-year-old Duchess of Gloster cow, and she will have a calf at foot on sale day by the \$400 bull, Admiral Broadhooks. Here is not only a richly-bred cow, but an excellent individual. There will be a yearling heifer out of this cow in the sale sired by Golden Banner, a bull bred by Messrs. Owens Bros. Another very choice cow to be sold is Orange Blossom, a daughter of the well-known bull, Young Commodore. Here is a splendidly-bred Orange Blossom cow with a good bull calf at foot by Young Commodore. Victoria Funke 8th, a Funke-bred Cruickshank Victoria with a nice heifer calf at foot by Young Commodore, is also one of the well-bred females in the offering. Bonnie Alexandria, one of those richly-bred Alexandrias, is one of the very best individuals, and these are but a few of the best Scotch cattle that he will sell at this time. The Scotch-topped sorts are too numerous to mention, but we will assure our readers that they are a desirable lot in every way, and a very large per cent of the females will have calves at foot or will be due to calve shortly after sale time. Those who want Short-horn cattle will find this sale a most excellent

place to buy. Remember arrangements and accommodation are made for breeders and farmers who attend the sale to go to Chariton or Corydon, Iowa, the night before, and free conveyance will be there to take them to the sale the next morning. In the meantime write Mr. Cutler for copy of his catalog and mention this paper. See advertisement on page 35.

Col. Geo. P. Bellows.
Any of our readers contemplating a public sale of pure-bred live stock of any breed will make no mistake in securing the services of Col. Geo. P. Bellows, of Maryville, Mo. Colonel Bellows has made good at every turn, his services are in demand and you should consult him now if you desire to secure him for a fall or winter sale. He has many dates booked, but has yet some choice open dates. See this page for Colonel Bellows' address.

Duroc Jersey Spring Pigs For Sale.
On this page of this week's Homestead Messrs. Von Seggern Bros., of Wisner, Neb., are advertising spring boars and gilts for sale either singly or in pairs or trios or any number that you may want at \$25 each. They have one of the very best herds in the West and if you send them your order now you will save in express rates and also in the price, and then you can grow them out the way you want to. Write them and get your choice of their present big crop and then you will be sure to get some good ones. Kindly mention The Homestead when writing them.

Johnson's Polled Durhams.
Mr. Walter Johnson, Dorchester, Neb., has decided to reduce his herd of Short-horns and Polled Durhams and is offering for quick sale, at attractive prices four select Polled Durham heifers about two years of age. The entire lot are good, well-grown stock, well worth the price asked for them. They are all by one sire, Agates Don Jee, and are very uniform. Here is an opportunity to secure a lot of cattle of practically one line of breeding that would make a foundation for a good herd. Polled Durhams are becoming very popular with farmers and breeders generally, as their polled heads do away with the necessity of dehorning and the consequent risk. Mr. Johnson can also supply anyone desiring them some strictly high-class Short-horns that should please. For further particulars, prices, etc., address Mr. Johnson as above, mentioning The Homestead.

Holstein-Friesians at Private Sale.
On this page of this week's paper will be found the advertisement of Mr. Henry C. Glissman, owner of the celebrated Rock Brook Stock Farm, at Omaha, Neb. Mr. Glissman's herd is one of the most noted Holstein-Friesian herds in the West and he is certainly offering some very attractive bargains in cows and heifers and young bulls just now. He is offering sixty head of cows and heifers for sale, from three to eight years old, all milking or soon due to calve, and these are bred in the blood of the most noted strains of the breed. He also offers twenty yearling heifers for sale and thirty-five bulls from four to eighteen months of age. If the readers of this paper want to buy some good Holstein-Friesian cattle and buy them right, there is no better place in the West to secure them than from Mr. Glissman. We have known him for a great many years and we know that he will treat you right. He quotes prices in his advertisement which appears in this issue, but if you want some of these cattle the best thing to do will be to write him at once and then go and see the cattle yourself and make your own selections. If you cannot do this, you can then depend on the selections that he makes for you. When writing him kindly mention this paper.

Oklahoma Has an Auction School,
one of the two largest in the United States. Col. W. B. Carpenter (founder and president of the Missouri Auction School, at Trenton, Mo., which was established in 1906 and is now the largest auction school in the world) is a live wire and while looking for a location for a second school had visited Indianapolis, Ind., Denver, Colo., and other locations, but when he arrived in Oklahoma City early in March he was not long in deciding that Oklahoma was a city after his own heart, and immediately made arrangements for opening a school by securing a large hall fifty feet by 100 feet on the fifth floor at 210-212 West First street, where school was opened on April 4th with students in attendance from Ohio, Missouri, Kansas and Oklahoma, and when the reporter for The Daily Oklahoman recently called at the school room and witnessed the extraordinary drills given on scientific auctioneering by instructors with from two to forty years' experience on the auction block, he no longer had any doubt that auctioneering was not scientific and could be taught the same as any other profession. Colonel Carpenter is a business American, as well as an auctioneer. He is president of Dunlap State Bank, Dunlap, Mo., also of the Carpenter Mercantile Company, and while he will make Missouri his home, he has bought real estate here and will be a stockholder in the Reserve State Bank, which Bank Examiner Young will open in this city June 1st. Col. J. C. Gogarty, of Oklahoma, who is president of the Oklahoma Auctioneer Association, and Col. O. R. Lilly, of Cushing, Okla., (the auctioneer who made sales every work day, except four, in eight months the last season) assisted by Col. E. Walters, Col. J. J. Campbell and Col. S. G. Garand, are the instructors on auctioneering, while Judge J. S. Estes instructed in voice culture, and Dr. Steel, V. S., instructed in live stock judging. Should you be interested in auctioneering, address

Carpenter's Auctioneering School, office 210 North Robinson, Oklahoma City, Okla.—From Daily Oklahoman, April 22d. See page 34.

The Howe Scale Company.
The advertisement of the Howe Scale Company will be found on page 27 of this issue. The Howe has been in use for more than sixty years and has, therefore, a record that is hard to beat. There is no use in discussing the question of the advisability of a good scale on every farm. It has become a necessity rather than a luxury. No farmer who is feeding stock can afford to do without it. The Howe is made in the latest form under a very complete guarantee and sold at prices which put it within the reach of every farmer. For additional particulars write to the Howe Scale Company of Illinois, 1321 Wabash Ave., Chicago, Ill.

Seventeen Kinds of Farming.
We wonder if farmers themselves realize how complex their business is, how wide a field it covers and what a great number of conditions and requirements they must face. These thoughts are brought to mind by a little book which is entitled "Better Farming" and which devotes separate chapters to the subjects of alfalfa growing, business-like dairying, silos and silage, improving the corn crop, hints on making hay, seed wheat, soil cultivation, maintaining fertility, improving the cotton crop, the gasoline engine, the boll weevil, the science and art of plowing, fighting Jack Frost, and adjusting wheel plows. The contemplation of these subjects presents a field of bewildering width. It also enforces the fact of an urgent need for explicit information on each of the points named. This little book, which we have not space at our command to deal with further, ought really to be upon every farmer's table and it may be without cost other than the time and trouble to send a postal card request to Deere & Co., Box 27, Moline, Ill. Many of the subjects treated upon are so timely as to be of immense value just now. Do not put off sending for the book.

Berkshire Sows For Sale.
Mr. Geo. S. Prine, of Oskaloosa, Iowa, who stands as the pioneer breeder of Berkshire hogs of the state, advises us that he still has a few good sows for sale bred for May farrow. These belong to his grand old Nora family, which has been maintained in its purity for a greater length of time than any other tribe of the breed in the West. Mr. Prine has acted upon the principle of reserving that which was best in his herd and cultivating all points of excellence to a very high standard. He found that this plan could best be operated by retaining this Nora family of sows. He has from time to time introduced popular blood through his herd boars, but at all times has demanded that they have individual excellence as well. His present herd boar is King Louis 6th, a son of Baron Duke 50th, bred by Mr. N. H. Gentry and by him pronounced one of the best things that has gone out from his herd. At other times Mr. Prine has used Premier Masterpiece and Lord Lee 10th, the names of which indicate their lines of breeding. As Mr. Prine wishes to dispose of these sows quickly in order to make room in his lots he will make very low prices to immediate buyers.

The Camp Portable Grain Dump.
The business of the farmer at the present time has become so much of a profession as to demand a clear and active brain, and the condition of mental intelligence that is not consistent with the old-time drudgery and back-breaking work. It is essential that the farmer not only for this reason, but also in order to effect a saving of expensive time, adopt all labor-saving devices which present themselves with proofs of their value. One of the best of these is the Camp improved portable grain elevators advertised on page 30 of this issue. This is a grain dump and elevator designed to unload grain of any sort from a wagon, and elevated into crib or granary by horse or engine power. Through its use all the old back-breaking work of scooping is avoided, and in a few minutes' time a load is disposed of where ordinarily an hour or more of hard work would have been required. Complete illustrations showing in detail the workings of the Camp dump and elevator and the Camp jack, which is the only jack operated by the hydraulic system, are given in the illustrated catalog sent free to readers of The Homestead. It may be had by sending a postal card addressed to Camp Bros. & Co., Washington, Ill.

Do You Need Seed Corn That Will Grow?
Any of our readers who are in need of seed corn will make no mistake in placing their order now with the Messrs. Petty Bros., of Liberty, Mo. The writer has personally examined their corn, both before and after shelling, and we do not hesitate to go on record in saying that Messrs. Petty Bros. have as high a quality of corn as they represent theirs to be. In their section of the country, last season was a good season for growing corn. Theirs was gathered and housed properly without any damage from frost or freezing; it was then hand picked and graded. No test has shown less than 95 per cent and in the tests we opened none showed less than 98 per cent fertile corn. Messrs. Petty Bros. own their own farms and sell only the corn they grow. They furthermore are absolutely reliable gentlemen to deal with and would not misrepresent their corn under any consideration. They are in the business to stay and their honesty will always be a part of their stock in trade, so that when once a customer is made that customer will add new ones to their list. Read their advertise-

TOO LATE TO CLASSIFY.

HOLSTEIN-FRIESIANS FOR SALE

I am now offering the following splendid registered Holstein-Friesians for sale at private treaty: SIXTY COWS AND HEIFERS, three to eight years old, all milking or due to calve soon; 20 HEIFERS, one to three years old, mostly bred to good bulls; 20 HEIFERS, under year old; 35 BULLS, four to eighteen months, which are out of dams with milk and butter records. The best you ever saw. Prices are as follows: Cows and heifers three to eight years old, \$150 to \$200; heifers one to three years, \$100 to \$160; heifers under one year, \$60 to \$100. Bulls at any old price, from \$40 to \$125. Let me know just what you want and I will give detailed description of such. Come and get the pick of the largest and best herd of Holstein-Friesians in the West. Kindly mention this paper when writing. Address

Rock Brook Farm, Henry C. Glissman, Prop., Station B, Omaha, Neb.

McINTYRE'S BIG-BONED POLAND CHINAS

SPRING yearling sows bred for June and July farrow; tried sows bred for August and September. A few yearling boars, 50 choice September, 1909, boars and gilts, and boars and gilts of March and April, 1910, farrow, to be delivered at 3 to 5 months old. Blood of P. W. Glant, Hadley, Jumbo and Victor. Foundation stuff or new blood.

F. W. McINTYRE, Route 5, RED OAK, IOWA.

Spartan Kid 2d 288181 FOR SALE

I am offering my splendid three-year-old herd bull, Spartan Kid 2d, for sale, and he is one of the best Hereford bulls in Iowa. Also eight choice young bulls for sale. Write or come and see me. Please mention The Homestead.

W. H. MAYNE, HARLAN, IOWA.

ment on page 31. They will do exactly as they say in same, so that you run no risk in sending your money for seed corn to be shipped at once. Again allow us to personally recommend the Messrs. Petty Bros.' corn, either yellow or white. When writing them kindly remember to mention this paper.

Fesenmeyer's Poland Chinas.
Sows bred to the noted big-type boar, A Wonder, for fall litters are now offered for sale by Mr. H. Fesenmeyer, of Clarinda, Iowa, on page 34. He also offers spring boars and gilts at \$25 each. It is a good time to get your order in if you want some of this well-known stock of large-type Poland Chinas.

The Only Way Hog Waterer.
The Only Way Manufacturing Company, at Hawarden, Iowa, make the Only Way hog waterer and believe it to be the best on the market. Among its advantages are its simplicity, durability and inexpensiveness. It may be placed close to or at any distance from the supply tank. It may be used under a fence to supply two yards. It will neither clog up nor fill with mud or sediment. It may be protected from frost in winter time. The writer has used one of these waterers on his farm for the past two years and has found it useful both summer and winter. He would not do without one at any prices, as through its use there is a certainty that hogs have water at all times. For prices or additional information write to the Only Way Manufacturing Company, Lock Box 67, Calliope Station, Hawarden, Iowa. See page 32.

Cedar Hill Short-horns.
Mr. Irvin E. Wilson, proprietor of the Cedar Hill herd of registered Short-horns, at Belvidere, Neb., has for several years maintained one of the best herds in the country. Practical Short-horns has been the constant watchword of Mr. Wilson in selecting his foundation stock, and has been closely adhered to in all of his breeding operations. For several years Mr. Wilson has had at the head of this well-known herd, the truly good bull, Leslie Boy. In the selection and use of this worthy sire was very clearly reflected the keen judgment and shrewd foresight of this ardent supporter of good cattle, further emphasizing the policy of constructive and practical breeding that has characterized his efforts from the start. At present there is an array of females at Cedar Hill that any breeder might well be proud of. Matrons of great size, smooth and well balanced, even in their lines, combined with great milking capacity, make them as desirable as can well be found. Mr. Wilson is offering just now three very select young bulls sired by Leslie Boy and out of dams that have helped to make this herd famous. Two of these bulls are fit to head small herds and the other is a good, useful, farmer's bull. For full particulars write Mr. Wilson, mentioning The Homestead.

Something New on the Badger Car.
The list of specifications printed in the advertisement of the Badger Motor Car Company on page 29, are certainly sufficiently detailed to afford the information necessary to everyone who contemplates the purchase of an automobile. These specifications give facts and figures that every wide-awake buyer should become informed upon. Some of them are facts, too, which a good many car people are a little backward about giving out. Our readers should go over this list carefully. They should note also that the manufacturers of the Badger car will be glad to send a proposition which cannot fail to be attractive to any buyer who wants a good car at a reasonable price. It should be kept in mind, however, that merit is the first consideration rather than price, and while the Badger car may not be as cheap as some others, its durability, simplicity and general thoroughness will more than offset any difference in price. Old-time lovers of driving thoroughly enjoyed a ride be-

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

50 Stallions—35 Mares

We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold, come and see Keiser's Percherons at Keota.

C. O. KEISER, Keota, Ia.

5 GOOD SHORT-HORN BULLS

Scotch and Scotch-Topped. From good milking dams. Prices reasonable. F. M. Hall, Friend, Neb.

POLLED DURHAMS

FOUR choice two-year-old heifers, sired by Agate's Don Joe by Royal Duke. Good individuals. Splendid milking strain. Priced reasonable.

Walter Johnson, Dorchester, Nebraska.

Cedar Hill Short-horns

Three good young bulls for sale. Best of breeding and individuality.

IRVIN E. WILSON, Belvidere, Nebraska.

Shetland Ponies for Sale

I AM offering eight head of Shetland ponies for sale at from \$65 to \$125. Also one 5-year-old black Shetland stallion and one 2-year-old Percheron stallion. Address H. W. Littleton, Harlan, Iowa.

REG. HEREFORD BULLS

10 HEAD two-year-old, blocky, well-marked, good colored bulls; guaranteed breeders. Strong individuals for the range. Also 12 head 1 year old, same breeding. Sired by Columbus 54th.

W. C. BRYANT, PRINCETON, ILLINOIS.

SPRING BOARS AND GILTS FOR SALE

WE are now offering spring boars and gilts, singly or in pairs or trios, at \$25 each; not related.

VON SEGGERN BROS., WISNER, NEB.

GOOD SCOTCH BULL For Sale

WE are offering a splendid red roan Scotch bull for sale sired by Victor's Roan Duke, dam Pink Cup by Imp. Gold Cup. Address

H. PRITCHARD & SON, WALNUT, IOWA.

Geo. P. Bellows AUCTIONEER

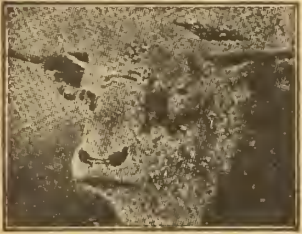
Pedigreed Live Stock Maryville - Mo.

FOR SALE—A GOOD 18-MONTHS-OLD ANGUS BULL

Priced reasonable. R. J. Kidson, Pontotoc, Illinois.

hind a pair of thoroughbreds having beauty and action. The same enjoyment in an added degree may be secured in a ride in the beautiful Badger, whose handsome lines and standard features make it a thoroughbred in its class. Read the advertisement and fill out and forward the coupon there given to the Badger Motor Car Company, 52 Oak St., Columbus, Wis.

IOWA SWINE BREEDERS' ASSOCIATION.
The summer meeting of the Iowa Swine Breeders' Association will be held at Des Moines on Tuesday, June 14th, the meeting to take place at the Savery Hotel. The program for this meeting has not been fully decided upon, but several interesting and timely subjects will be taken up by prominent gentlemen so that a more than usually attractive meeting may be looked for.
As usual, the meeting of the National Association of Expert Swine Judges will take place on the following day, June 15th. Later announcements concerning this meeting will be made.

Brookmont Herefords

IMP. MARCH ON 76035, Father of All March Ons, now in Brookmont Herd.

There is at all times to be found at BROOKMONT a supply of HEREFORD bulls, cows and heifers suitable for foundation material. They have breeding and individual merit that cannot be bettered anywhere and will be sold at very reasonable prices. They have health and thrift and are guaranteed free from tuberculosis.

A. E. COOK, Odebolt, Ia.

LIVE STOCK AUCTIONEERS.

FRED REPERT,
DECATUR, IND.
Live Stock Auctioneer.

Cattle Sales a
Specialty.....

Write for Dates and Terms.

C. C. EVANS
North English, Iowa.
Live Stock AUCTIONEER

SALES made anywhere.
Reasonable terms. Have
pleased others; can please you.
Write for Dates.



PLINY NICHOLS
WEST LIBERTY, IOWA.
Live Stock Auctioneer

SALES made anywhere. Reason-
able terms. I also breed Poland
Chinas and Short-horns.

ELWOOD J. PITTMAN
STERLING, ILLINOIS.
Fifteen years' experience
selling live stock.
Write for Terms and Dates.



N. G. Kraschel
HARLAN, IOWA.
Live Stock Auctioneer

I have a wide acquaintance
among pure-bred breeders and
am thoroughly posted in my
vocation.

GEO. B. BUCK

AUCTIONEER AND EXPERT JUDGE.
Have judged at Illinois and Iowa
State Fairs. Have sold for the best
breeders of the central West the past
three years and have them rebooked.
Posted on pedigrees and values. Sales
made anywhere. Terms \$20 and ex-
penses. I always deliver the goods.
Write me for dates at Sunny Hill, Ill.

LEARN AUCTIONEERING

And make from \$10 to \$50 per day. We
teach by mail or here in school. 121
students attended January term 1910.
The largest school of the kind in the
world. Free catalog for either course.
Which do you want?

MISSOURI AUCTION SCHOOL,
W. B. Carpenter, Pres., Trenton, Mo.

Col. C. W. Smith
LIVE STOCK AUCTIONEER

POSTED on breeds and values. A live wire on
block or on the ring. Make your next date with
me. Terms reasonable.

FAIRBURY, NEBRASKA.

Geo. W. Dykes Live Stock
Auctioneer.
DANA, ILL.

A. C. Manifold Auctioneer
Tarkio, Mo.
Pure bred sales specialty

W. D. STOLLER, Auctioneer
Live Stock a specialty. Address R. 6, Vinton, Ia.

LIVE STOCK AUCTIONEERS.**H. L. Igleheart**

Glendale, Kentucky,
Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

CAREY M. JONES,
Live Stock and Real Estate
Auctioneer,

2856 Washington Blvd., Chicago, Illinois.
'Phone West 1228.

If you want to buy or sell a Farm, City Prop-
erty or Subdivision, no matter where located,
write for terms and dates.

R. W. Mitchell, Albany, Mo.

Live Stock
and
Real Estate AUCTIONEER

EIGHTEEN years' experience. Write me for
dates. Copies of my live stock poems free when
stamp is enclosed. Am booking fall, winter and
spring dates.

J. L. McILRATH

GRINNELL, IOWA.

Live Stock Auctioneer

Breeder of registered Belgian horses.
Ask my customers. Write me.

LIVE STOCK AUCTIONEER
SEVENTEEN years' experience in the business.
My customers are my best references. Write for
dates. Terms right and satisfaction guaranteed.
W. F. STRATTON, CAMBRIDGE, IOWA,
Breeder Short-horn cattle and Duroc Jersey swine.

W. K. HENSS, WAYLAND, IA.
LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock
for noted breeders. Terms reasonable. Write
for dates. Catalogs compiled.

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Thoroughly posted as to pedigrees and values.
Write for dates. Terms reasonable.

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DUROC JERSEY SWINE.**20 DUROC JERSEY FALL BOARS**

Sired by Shabona, he by Highland Duke by
Chief of All, dam Lady Chief by Golden Crown.
The dams of these boars are by Ambition, Cash
Register, Big I Am and Tip's Pride. Write for
description and prices to

W. R. CHILDS, PRINCETON, ILLINOIS.
When writing, kindly mention The Homestead.

Fall Males and Gilts FOR SALE

Sired by Defender and others out of
the dam of Defender. Prices reason-
able for such breeding and stuff of
much quality. Mention The Homestead.
FRED BROWN, LOAMI, ILLINOIS.

20 Duroc Boars 20

Got by King of Cols. II. and G. C.'s
Col. Dams are Model Chief Again sows.
All are good, of summer and fall 1909
farrow. Spring pigs doing fine. Ad-
dress

FRANK ELDER, GREEN, KANSAS.

30 Duroc Gilts 30

Summer and fall farrow. Sired by
G. C.'s Kan. Col. Bred to son of King
of Cols. II. and W. L. A.'s Choice Goods
dam, few to Nebraska Wonder, Crim-
son Wonder's best son. Also fall boars,
same breeding.

CHAPIN & NORDSTRUM, Green, Kan.

FOR SALE—20 FALL SOWS Bred to the
champions,
B. & C.'s Col. and Crimson Wonder III. They
are sired by B. & C.'s Col. S. and McNeil's
Model. Price \$50 to \$65. First come, first served.
(Ed. A. Baxter, Pawnee, Illinois.
Address R. L. Comer, Carlinville, Illinois.)

Real Reds to "Show You"

OUR crop of spring boars (sows are all reserved)
carry the blood of King of Cols., Ohio Chief,
Model Chief, etc., through strains of prize winners.
They are right. Orders booked now.
E. W. Davis & Co., Glendale, Missouri.

DUROC JERSEY SWINE.**Helen's Chief High Notcher**

and Glad Col. head my herd of Durocs.
Write for what you want.

M. A. KRASCHEL, MACON, ILLINOIS.

HIGH CLASS DUROC JERSEY BOARS

I have five September boars sired by
the sweepstakes boar, Crimson Wonder
Again, and out of H. A.'s Queen for
sale that are sensational herd boar
propositions. Also a number of other
good boars. Write or come and see me.
W. M. SELLS, INDIANOLA, IOWA.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and
Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY.
Write Your Wants.

MODEL TOP

HEADS herd, assisted by King Wonder. Both o
these boars are State Fair champions and pro-
ducers of show animals.

Bardwell & Barnard, McHenry, Ky.

BUY A BOAR NOW FOR SALE

FIVE fall boars. Choice, growthy fellows by Har-
d Advance by Harding's Proud Advance, dams
by Pilot Lad II. by Checkmate, second in class,
World's Fair, St. Louis. These are big enough for
immediate service. In writing, mention this paper.
H. K. RAY, KEWANEE, ILLINOIS.

FOR SALE 10 FALL DUROC MALES

By Rose Chief by Belle's Chief by Ohio
Chief, dams of Proud Advance and
Pilot Wonder breeding. These males
are ready for service and the prices
are right. Write for prices and de-
scription, mentioning The Homestead.
W. A. FELL, CAMBRIDGE, ILLINOIS.

BRED SOWS---ANGUS BULLS

WE have thirty head of well-bred Duroc Jersey
sows, to farrow in May, for sale, at \$35 to \$50.
Also a few fancy bred Angus bulls. Address
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Duroc Jersey Bred Sows

WE are offering a choice lot of bred sows and gilts
for sale, bred for April and May farrow. Address
VON SEGERN BROS., WINNER, NEB.

HUFF'S DUROCS

HUFF'S Advance, Brighton Wonder, Buddy's
Improver. A few choice September boars for
sale. The "Always Better Kind."
C. W. HUFF - MONDAMIN, IOWA.

MIDLAND Herd Duroc Jerseys. Bred sows all
sold. Yearling boar for sale. Orders booked for
spring pigs, July delivery. S. J. Butts, Mason City, Ia.

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H. FESENMEYER, CLARINDA, IOWA.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy
gilts sired by our great herd boars, Thicket 2d and Dark Corrector. We also offer mature sows bred to
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WILLIAMS BROS.' POLAND CHINAS

THE LARGE TYPE, WITH QUALITY COMBINED. 275 SPRING BOARS and GILTS,
1 and a number of fall boars for sale. These are sired by W.'s Major 45234, Young Look 47722,
Pawnee Price 47721 and Villisca Chief. SPECIAL PRICES. We are offering spring boar pigs
and gilts at \$25 each, and we guarantee satisfaction. Also some extra choice fall boars. Address
WILLIAMS BROS. VILLISCA, IOWA.

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I am now offering some splendid fall boars for sale
sired by my noted show and breeding boar Big
Victor and out of my best sows. Address,
D. C. LONERGAN, Florence, Nebraska.

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We have a few very choice fall
boars for sale. One herd header of
much quality out of Chief's Jewel,
champion sow Iowa State Fair, 1909.
Others out of Proud Advance and
Top Notcher Again dams. For prices
and description address

HANKS & BISHOP,
NEW LONDON - IOWA.

Duroc Jersey

Fall pigs sired by COL'S KING out of
dams by Arthur's Choice, Proud Advance, In-
ventor and Tokio Paul. I will be away from
home until April 1st, so do not write me until
that time.

ARTHUR L. PARKS, LELAND, ILL.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner
HEAD HERD

A few gilts bred to the above boars for sale. Address
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Ten fall males ready for service, by
Champion Paul II. Dams of choice
breeding. Will price them worth the
money if ordered at once.

COL. JAY CASTEEL, Cambridge, Ill.

For Sale--12 Extra Choice Fall Boars

If you need an extra good Duroc boar
we have them by Manley Orion's Son
by Manley Orion, dam by Keep On II.
These pigs are out of dams by Edu-
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be priced worth the money and are fit
for immediate service. Address

GEO. L. MILLER, COAL VALLEY, ILL.
Care of Buck & Miller.

Do You Need a Boar

I HAVE good ones by S. E.'s Model 80743 by Model
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boars are by Keep On III., Proud Advance
and others equally as good. These males have quality
and some are fit to go into the best herds in the
land. Will price them cheap. My spring pigs are
extra good, and of the best breeding. Write me or
come and see. Please mention The Homestead.
S. E. EAKLE, PROPHETSTOWN, ILL.

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BY O. & I. 82341, a line bred Col. and Protection
boar of show yard quality; dams by Buddy K.
IV. and Ambition. A few fall gilts, either open or
will breed them. Also have 3 Scotch-topped Double
Standard Polled Durham bulls for sale. Please
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MENAUH BROS. - MAZON, ILLINOIS.

PUBLIC SALE OF CANNA HILL SHORT-HORNS

Scotch and Scotch-topped
at Canna Hill Stock Farm
Corydon, Ia., Friday, May 20, '10

45 HEAD---22 HEAD OF COWS AND HEIFERS, 45
15 CALVES AT FOOT, 13 BULLS, including 45
CHAMPION COMMODORE 287299

Red, little white; calved October 10, 1906. Bred by Cookson Bros., West Branch, Iowa. Owned by W. E. Cutler, Corydon, Iowa.
Got by Young Commodore 203988, Cookson & Sons
Imp. Scarlet Bangle..... Kn't of Strathlogie 2d 164699, J. Wilson
Imp. Silver Bangle..... Violet Boy 157951..... Wm. Duthie
Silver Bracelet..... Mandarin 157933..... J. L. Reid
Short Tail..... Bannockburn 144885..... J. Bruce
This splendidly-bred Broadhooks bull, possibly one of the best ever bred by Cookson Bros., and used with the greatest success in my herd, will be sold in my sale. He is a great proposition for the man that is seeking a herd bull.

THIS is one of the best offerings of Short-horns to be sold in southern Iowa this year. The Scotch families represented in my sale are Cruickshank Victoria, Orange Blossom, Duchess of Gloster, Lavender, Broadhooks, Fleur de Lis and Rosemary. The Scotch-topped sorts are also well represented in this sale and most of the females will have calves at foot by Champion Commodore. I am also selling this splendid Broadhooks herd bull as well as a splendid lot of young bulls. This is one of the best places in the state to buy good cattle at your own price and I extend to you a special invitation to attend my sale. Catalog now ready. Kindly mention this paper when writing for it. Address

W. E. CUTLER, CORYDON, IOWA.

Cols. Geo. P. Bellows, Auct. Fennel Bros., Assistants. Free conveyance from Chariton or Corydon. Parties coming to Chariton should stop at Bates House at my expense or at leading hotels in Corydon.

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McINTYRE'S BIG-BONED POLAND CHINAS

A FEW more tried brood sows and fall yearlings, and 25 spring gilts, bred to farrow in April and May. They are extra good ones. Also spring and fall boars. Blood of Hadley, P. W. Glant, Jumbo and Victor. Reasonable prices. Address P. W. McINTYRE, Route 5, RED OAK, IOWA.



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CHESTER WHITE SWINE.



CHOICE FALL BOARS FOR SALE
THEY are of the same prize-winning blood as those with which I won 141 prizes at five big state fairs of 1909. Low prices to quick buyers, as I must make room for the spring crop. D. H. LEWIS, GENESEO, ILL.



Never Root and Ear Marker
Stops all hogs rooting; gauges back of adjustable blades insure good job. Ear Marks and numbers all stock. DECKER MFG. CO., Keokuk, Iowa. Both articles guaranteed

35 CHESTER WHITE BOARS AND SOWS

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O. I. C. Highland Teddy; first at Des Moines in 1908. Address Allen Bros., Russell, Iowa.

BLOCKY, good boned Chester White fall pigs, either sex, weight 100 to 150 pounds, at \$15 to \$20 each. Address or come, Will Michael, Selma, Iowa.

MEHRING Choice O. I. C. strong-boned, smooth, well-quartered July boars for sale. Some fine Sbropsire bucks. H. C. Mehring, Manson, Ia.

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Aristocrat of Hogs
You can't expect an oak from a mustard seed, nor a strong healthy litter of pigs from a worn out sow or sire. Tonic up your herd with one of the famous
BERKSHIRE
boars or sows. Berkshire bacon is leaner—they fatten easier—mature earlier. Fill out better—command best prices. Morgan Farm—the headquarters for Berk sows and boars. From 300 to 700 always on hand. Send for particulars.
MORGAN FARM, Beloit, Wisconsin

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa

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Large Yorkshires Champion Herd of U. S.

Special offering now 128 gilts, 9 to 12 months, guaranteed safe, due last of March to June, now ready for shipment; weight 200 to 375 lbs., prices f. o. b. \$40 to \$75 each, depending on size, quality, age and date of breeding. Also 20 sows of fall litters at \$25 each. Order early, as demand was never so strong.

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My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both champion-ships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.
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WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.



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WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.
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MY herd won more than all competing herds combined, 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.

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I WON champion on pen of Hampshire barrows; also champion on single barrow at the 1909 International Stock Show. 30 sows bred for March, April and May farrow, for sale. Also breeder of Short-horn and Double Standard Polled Durham cattle, Bourbon Red turkeys, Pekin ducks, and Barred P. Rock chickens. Write me. John Goodwine, Potomac, Illinois.



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WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.

25 Head of Spring Boars
5 Head of Yearling Boars
All good ones and guaranteed breeders. Prices reasonable.

H. D. DeKALB - - - DeKALB, IOWA.



HAMPSHIRE SWINE

For sale. A few fine fall boars. Also a number of gilts bred to farrow the last of August and first of September. All my stock of same breeding as my 1909 state fair winners. Write for prices and description, mentioning The Homestead.
WILLIE ESSIG, TIPTON, INDIANA.

When writing mention this paper.

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Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Donohoe, of Holbrook, Iowa, and P. Leaky, of Parnell, Iowa. 200 head of choice Doddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42083 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

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Angus Bulls

Sired by Scottish Hero 52494 and Glen's Priteno 91606. In ages from 10 to 20 months, in good, useful condition for the buyer. If you want bargain prices on bulls write me.

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HEADED by undefeated Oakville Quiet Lad and Thickset Blackbird. 10 young bulls by Glenfold Thickset, sweepstakes bull '08-'09. Out of imported and home-bred dams of fashionable families. 23 yearling and two-year-old heifers bred to Glenfold Thickset, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Herdsman.

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HERD headed by the Trojan Erica bull, Equatize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, - IOWA CITY, IOWA

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I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equester; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

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I HAVE a splendid 2-year-old Trojan Erica, a 2-year-old Blackbird and Pride bull. Also Queen Mothers and several younger bulls at bed rock prices. John H. Fitch, Lake City, Iowa.

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THREE bulls for sale; also three bull calves. I dropped last August and Sept. They are sired by ton bulls and out of one of the best cow herds in the state. My cattle have size, breeding, quality. Call on or address A. G. Messer, Grundy Center, Ia.

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WE are offering a splendid 2-year-old, double-bred Blackbird bull for sale; one excellent Gilt bull; 3 Prides and several others. These are good bulls, and our prices are bed rock. Isenbarger Bros., Battle Creek, Iowa.

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Ericas, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by Imported Ideal of Stranden 28158 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. R. Wilkinson & Sons Mitchellville, Ia.

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RED POLLED BULLS

TWO yearlings and some younger ones. Also offer our herd bull, Advancer, by Profector. Write for description, breeding and prices.
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SINGLY or in car lots. Best of breeding, good individuals and splendid milkers. These cattle are priced to sell.
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MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

HEREFORD CATTLE.

2 HEREFORD BULLS 2

One a herd header, by Tommy B., a grandson of Wild Tom, and out of Imp. English Lady, a ton cow and one of the best of the breed. The other a Wild Tom-bred bull, a good, useful steer getter. These bulls will be priced so you will buy.

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I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address

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FROM 12 to 24 months old, sired for the most part by FAST FREIGHT. Good individuals, prices right. G. G. CLEMENTS, ORD, NEBRASKA.

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90 HEAD FIRST ANNUAL GUERNSEY SALE 90 HEAD

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Polled Herefords

WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.

Warren Gammon & Son, Des Moines, Iowa. Originators of Polled Herefords.

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A FINE lot of cows and heifers, sired by or bred to Brigadier 10th 217618 (a grandson of Lamplighter). All are of good lines of breeding, and of excellent individual merit. I have too many, and will sell some of them at bargain prices to reduce the number. You will buy if you see them.

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Polled HEREFORDS

THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

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FOR SALE, from 12 to 30 months old, sired by Advance 125531 and McKinley 95219. Address Z. T. KINSELL, - - MT. AYR, IOWA.

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OF both sexes. One herd bull and some cows bred to Success, the 4th one of the best bulls of the breed. W. H. Campbell, Grand River, Iowa.

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Males and Females for Sale
WRITE TODAY.

W. M. JONES, WAUKESHA, WIS.

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They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

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Established 1887. TUBERCULIN TESTED.

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Bred for Production.
Ninety Head in Herd.

A. W. and F. E. Fox, Waukesha, Wis.

GUERNSEYS

THEY ARE BONNY BOYS.

Visit or Write.

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A FEW YOUNG BULLS FOR SALE.
SEND FOR SALE LIST.

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COMBINATION SALE

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The Very Best of the Breed



Five Cows in Sale With Records 20 to 26.75 lbs.

The blood of Homestead Junior De Kol, Hengerveld De Kol, Oak De Kol 2d Homestead Fobes, Fobes Tritomia, Mutual De Kol, King Segis and other prominent families. Write for catalog; mention paper.

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OR S. E. JONES, WATERTOWN, WIS.

GRACE FAYNE 2d's HOMESTEAD

(35.55 LBS. BUTTER IN 7 DAYS)

And several other cows with better than 30-lb. records were bred on this farm.

Inspect Our Herd the Day Before the Sale

We can show you a large number of choice sons and daughters of the great bull,
HOMESTEAD JR. DE KOL

The sire of five cows that averaged 30.59 lbs. of butter in 7 days.

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I have a few choice young bulls for sale that are fit to head good herds.

Also a few choice cows and heifers for sale.

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EVER held, June 21, 22, 23, 1910. Over 100 head Peaches and Cream, bred direct from the world's champions. For information, watch The Homestead or write R. E. Haeger, Algonquin, Ill.

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Buy a Good One

I can sell you a Holstein bull which will sire high producers. It's bred right in them. Let me tell you about it.

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HOLSTEIN BULLS

TWO to twelve months old; our own breeding. Dams give from eight to twelve thousand lbs. milk per year under ordinary farm conditions. Sire, Sir Netherland Cornucopia, whose two nearest dams averaged thirty lbs. butter and 6 nearest dams averaged twenty-five in seven days. Why buy picked up culls from a dealer when you can buy fashionable, high-class stock from a breeder? Let us send you our price list. We price them right.

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YOUNG bulls from A. R. O. dams, for sale. They are our own breeding and will prove money makers for you. Buy the best and succeed.

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HOLSTEINS LAKE MILLS, WIS.

100 HEAD. A few grandsons of Hengerveld De Kol to offer from A. R. O. dams. High grades in carload lots that show quality and breeding. Barn a few rods from C. & N. W. Ry. WM. EVERSON & SONS.

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THE BEST BY TEST.

Do you want Heifers or Bulls?

J. Q. Emery & Son, Edgerton, Wisconsin.

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Ayrshire Cattle

Some of the best young things we have ever offered. They are bred at the top.

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Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. Wm. Barrans, Lenox, Iowa.

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ABNEY'S Prize-Winning Galloways.

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HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address John C. Gahring, R. 1, Box 29, Marengo, Ia.

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REGISTERED BULLS WANTED

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ELK CREEK SHORT-HORNS

Five good bulls for sale, sired by Jolly Hampton, Custer Butterfly and Crimson Scot. Good colors and good individuals. Prices right. Auto phone 1902. Address

S. A. Nelson & Sons, Malcolm, Neb.

Good Red Short-horn Bulls

A DOZEN Scotch and Scotch-topped bulls, 10 to 24 months old, some good enough for the best herds, others suitable for farmers. Sires Courtier 5th 27389 and Baron Secret 2d 28279. Address OWENS BROS. - - HOMESTEAD, IOWA.

SUMMIT HERD OF SHORT-HORNS

20 Short-horn bulls for sale, of serviceable age; all good colors and choice breeding, and well grown. Prices right. Lee & Prentiss, Vermillion, S. D.

Six Short-horn Bulls for Sale

WE are offering six head of good young Short-horn bulls for sale, five reds and one roan. Good ones and at reasonable prices. Write us at once. H. Pritchard & Son, Walnut, Iowa.

GOOD RED SHORT-HORN Bulls

FOR SALE. Sired by Knight Commander, be by the great March Knight; also a limited number of choice females. Get my prices before buying. HENRY P. MCCARTNEY, YORK, NEB.

A FEW CHOICE SCOTCH SHORT-HORN BULLS For Sale

I Barr & Son, Davenport, Ia.

NOTICE

30 Holstein Bulls for Sale

10 HEAD are from A. R. O. dams and balance are from dams not tested. These bulls are in age from five to fourteen months; well-grown and first-class individuals, from dams that are kept for profit. These bulls are sired by two sons of Homestead Jr. DeKol, the sire of Grace Fayne 2d's Homestead, world's champion cow. Balance by Johanna Rue, Sarcastic Lad, 12 A. R. O. daughters and close up in breeding of Colantha 4th Johanna. Prices low according to stock. Mention this paper when inquiring. For information, address

L. C. LEGLER, JUDA, WISCONSIN.

MONONA FARM HERD

OF pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

F. W. ALLIS, MADISON, WISCONSIN.

HOLSTEIN

Cows and heifers any age.

Bulls fit for service.

W. R. Gates, Fort Atkinson, Wisconsin.

MAPLE LANE Holsteins

EIGHTY HEAD IN HERD.

WE GUARANTEE OUR STOCK.

T. J. BARMORE, MONROE, WISCONSIN.

SHORT-HORN CATTLE.

S. H. THOMPSON'S SONS

IOWA CITY, IOWA.

A **SPLENDID** lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.


SHORT-HORNS AND POLAND CHINAS

Five Scotch and Scotch-topped Short-horn bulls. Three extra Poland China fall boars. Bulls are sired by Victor's Roan Duke, Lavender King and Ury Chief. Boars by Wade's Jumbo and Allerton Chief. Best of individuals and are priced worth the money. Address **O. E. WADE, Rising City, Nebraska.**

SCOTCH BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.



The "STAY THERE"
Aluminum Ear Markers
are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address
WILCOX & HARVEY MFG. CO.,
Dept. A, 325 Dearborn St., Chicago, Ill.

Three Pure Scotch Bulls FOR SALE

FOURTEEN to 18 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight. Address **T. A. DAVENPORT, BELMONT, IOWA.**

Wildwood Scotch and Scotch-Topped SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls. Headlight and Brawith Lad. For description and prices, address **W. W. VAUGHN, MARION, IOWA.**

Plain View Stock Farm

6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address **GEO. A. HANS, NEWTON, IOWA.**

GEO. H. WHITE, EMERSON, IOWA,
Breeder of High-Class Short-horns.

HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address

GEO. H. WHITE, EMERSON, IOWA.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address **Riley Bros., Albion, Neb.**

MILKING SHORT-HORNS

YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk, or weigh in the milk for the herd. **BLACKMER & NELSON, Albert Lea, Minn.** Farms 1 and 2 miles from town.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.

W. J. HATHER, ORD, NEBRASKA.

BATES BULLS

SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address **O. M. HEALY, BEDFORD, IOWA.**

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address **JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.**

SCOTCH and SCOTCH-TOPPED BULLS

I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athene. Others that are strictly choice. Also several Scotch-topped bulls by Lord Mutineer. Prices low if taken soon. **PERRY O. BROWN, LAMONT, IOWA.**

FOR SALE QUICK

A "REAL" herd header, red, "Cruickshank Secret," 22 months old, bred by Chas. C. Norton, son of his noted "Gloster's Favorite." You will buy if you see him. Write us now for particulars. **H. S. & W. B. DUNCAN, Clearfield, Taylor Co., Ia.**

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Rhigmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. **Win. M. Smith & Sons, West Branch, Iowa.**

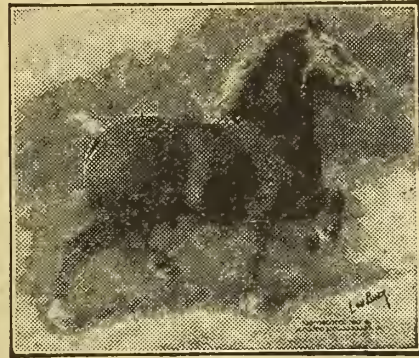
SHORT-HORN CATTLE.

CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and bred to Narcissus King, singly or by carload. You will buy if you see them. **R. J. COX, GRINNELL, IOWA.**

HORSES.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

Stallions and Mares

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.



HENRY LEFEBURE, FAIRFAX, IOWA.

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of

PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

CLYDESDALES and PERCHERONS—Imported and home-bred. A select lot of stallions and some extra choice mares. Prices right. Address **R. O. MILLER, Route 1, LUCAS, IOWA.**

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$300 to \$1,000; home-bred, \$300 to \$550. **Frank L. Stream, Creston, Iowa.**

Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales. **L. A. MATERN, WESLEY, IOWA.**

When writing mention this paper.

HORSES AND JACKS.

FOR SALE 2 Percheron Stallions

And several choice driving horses. One of the stallions is an imported horse and the other is American bred. They are good individuals with plenty of bone, size and style. Are sound and good breeders. Will be priced to sell at figures that will suit anyone wanting a stallion. Now is the opportunity to buy right. Address.

A. H. Brett, 426 W. 4th St., Mason City, Ia.
A. H. Brett and G. O. Gould, 723 N. Mich St.
Phone No. 1213. Mason City, Iowa.

AT LOW PRICES

BELGIANS PERCHERONS GERMAN COACHERS

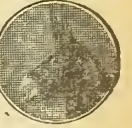
A. R. IVES, DELAVAN, WISCONSIN.

PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. **CHAS. IRVINE, ANKENY, IOWA.**

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. **W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia.** Register your jacks in the American Jack Registry. Write for blanks.



Clydesdale Headquarters

McLay Bros., Janesville, Wis.
NEW IMPORTATION—18 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine International than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

PERCHERONS AND BELGIANS

I have six stallions that I imported myself, two to five years old, that I will sell at a very low figure to close them out. If you would buy a stallion at any price write me.

W. J. BUTLER, R. 29, OTTAWA, ILL.

MAMMOTH JACKS

WE make a specialty of fine young jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON, BATAVIA, IOWA.



MARES FOR SALE

The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an International winner, and one imported Hackney mare, both with foal. Also one first-class Short-horn bull. Address

DIVISION OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14½ to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop., EOLIA, MO. Pike Co.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$550.

Percheron Stallion Wanted

I WANT a good Percheron stallion, two years or over. Want to pay all or part in well-bred Aberdeen Angus cattle—good ones.

H. L. M. BRINER, TOLEDO, IOWA.

Percheron Stallions Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. **Will F. Hooker, Northboro, Page Co., Ia.**

SHIRTS, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. **A. Latimer Wilson, Creston, Ia.**

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. **R. Wilkinson & Sons, Mitchellville, Ia.**

FRANK IAMS' REDUCED PRICES

on his Imported "1909 Show Stallions" and horses bought for "1910 Show Stallions and Business Stallions," and his "new suit" of "selling clothes," will sure fit all buyers. Prices on all Iams' Imported "Show and Business Stallions" reduced \$200 to \$500 each.

IAMS SELLS SHOW HORSES AT THE SAME PRICES

"others sell culls," and they "hypnotize" "car loads" of "Ikey Stallion Buyers" and make them "sit up and take notice" and buy imported horses of IAMS. His big "black boys" are "ripe peaches," and all must be sold. Get on to "Iams' money-saving game." Buy stallions today. Get stallions ready for "spring business," Ikey Boy. Be the "early bird;" they get the business and choice of Iams' "black boys" and "top-notchers." "Leave your happy home," visit the "peaches and cream" stallion man, and save \$1,000. Every day is a "bargain day," a "horse show day," and a day of "profit and pleasure," at IAMS' STALLION EMPORIUM, the largest in the United States, at St. Paul, Neb. You will positively see here more imported stallions—"top-notchers," "medal winners," "ribbon grabbers" and everyday business horses—than at any "horse plant" in the United States, and double all others in Nebraska. Iams backs up his "ads" and catalogue with a "\$500 bonus" (no others do this). He gives five of the best banks in Nebraska for reference.

IAMS' 70 KINGS AND QUEENS OF PERCHERONS AND BELGIANS

are all "top-notchers." No International "tail-ends," no "auction stuff," no "pick-ups" or "peddlers' horses," but the best bunch of big-boned, big drafters of quality and finish in the United States, and in the "pink of condition." Iams is a "big fly in the ointment" in the "horse business." He "sets the pace" for all competitors, "Ikey Boy." Buy an imported stallion of Iams, the horseman "who does things." Get into Iams' Band Wagon; don't be "side-tracked" by "hammer knockers." Ikey Boy, "waltz me around once again" and land me at IAMS' "four importing barns" and box office, filled to the roof with big "black boys" at bargain prices. Iams is the only horseman who really has "the goods" as advertised. Mr. Stallion Buyer, "come on down town."



Iams' New Barn of 40 Gold Medal Winning Percherons and Belgians

is opened up for sale (not seen before). All of Iams' 1909 "Gold Medal Prize Winners" and 1st Prize Stallions at Paris and Brussels and leading European Horse Shows and 40 TOP-NOTCHERS, bought for 1910 Horse Shows in the United States. They are all in his barns and for sale at reduced prices, \$200 to \$500 each.

All in "The Pink of Condition" and Fully Acclimated.

Iams has positively all his largest and best horses in his barns yet, Son Ikey, all the world knows IAMS. He has a "money-saving" feeling for horse buyers. He sold 60 imported stallions and mares to "Iowa boys" in 1909, and 150 "top-notchers" to the boys with brains in other states. Iams sells \$4,000 imported stallions at \$1,000 and \$1,400 (some higher). Iams sells the "wide-as-a-wagon" kind that don't need to be "peddled" or put on the "auction block" to "catch suckers." Iams is a horseman in a class by himself; he is selling more horses yearly. Ikey Boy, don't be a lobster, "be the wise guy, after all." Try Iams, the "peaches and cream" stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a "warm spot" in his heart for all stallion buyers.

He Saved \$300,000 to Stallion Buyers in 1909

by selling stallions direct to the people, saving all the middleman's profits. Iams is an expert horseman. He knows the "top-notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin'-and-a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 and \$4,000. "Son Ikey," form your own "stallion company." Visit-Iams' town of barns filled to the roof with big "black boys," the "best ever"—"Iams' kind." His 70 stallions, 2 to 6 years old, weight 1,700 to 2,500 lbs., 90 per cent blacks, 50 per cent ton horses, are a horse show better than the International.

Iams' 1910 Horse Catalogue is an "Eye-Opener,"

a "bunch of gold," the "Book of Books" to stallion buyers. It is full of truths, facts, "business propositions," and 115 illustrations of the best and largest imported stallions and mares in the United States, "true to life," the "wide-as-a-wagon," the real "peaches and cream" stallions. It shows the "tricks" of "stallion peddlers" and "auction block" salesmen. It is the finest and most elaborate, original, up-to-date book in the world. Iams' twenty-eight years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on honor. A boy or lady can buy as cheap as a man and get a better horse of Iams, the "square deal" horseman. If you visit him and don't find every statement in his advertisement or catalogue as represented, you can get the \$500 that he hangs up. IAMS guarantees to sell you the

Choice of His Gold Medal and Prize Stallions and a Better Stallion at \$1,000 to \$1,500

(bar ten), than are being sold to farmers' stock companies at \$2,500 and \$4,000; with 60 per cent breeding guarantee, with freight and fare paid by IAMS. He can furnish buyers \$1,500 insurance. You say, "Why can Iams sell better stallions at half the price of others?" IAMS buys and sells every stallion himself. He buys stallions by special train loads, 200 at a time. He speaks the languages, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick" salesman \$100 to \$1,000 to sell you a fourth-rate stallion. He has no two to ten men as partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions. Iams has all his largest and best horses on hand yet (not seen by the public before)—now on sale. He sells stallions by "hot" advertising, and having "the goods" to make every statement good. Iams sells stallions so good that they do not need a "slick" peddler or the "auction block" to sell them. Special reduced prices made at Iams' barns only. Iams will save you \$1,000 in commissions and middlemen's profits. "Papa, dear," buy me an imported stallion of Iams. He will make me \$1,000 in six months and be good for twenty years. Iams has the kind that lay these "golden eggs." Don't let one of these "auction men" "hand you a lemon," with one of these so-called American full bloods with questionable breeding.

Iams' Prices Reduced on All His Show Horses (70) \$200 to \$500 Each

Write for Iams' million-dollar horse catalogue. Iams' guarantee is backed by a "half-million dollars." References: Omaha National and First National, Omaha, Neb.; Citizens' National, St. Paul State Bank and First State Bank, St. Paul, Neb.

ST. PAUL, NEBRASKA.

HORSES.

1878 **TRUMANS' CHAMPION STUD** 1910**100 SHIRE, PERCHERON, BELGIAN AND HACKNEY STALLIONS****SPECIAL PRICES FOR 30 DAYS. THIRD IMPORTATION FOR 1910 ARRIVED MARCH 14th.**

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in THE WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.**STALLIONS AND MARES**

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.**NOW IS YOUR OPPORTUNITY**

TO OBTAIN A FIRST-CLASS, IMPORTED

PERCHERON, ENGLISH SHIRE OR BELGIAN STALLION

AT prices never before duplicated by any importing establishment in the United States, breeding and quality considered. 60 head on hand to select from, including a new importation just received March 10th. We give you a straight 60% breeding warranty without any ifs or ands attached to same. Visit our establishment, inspect our stallions, and we feel assured you will purchase one of our horses. If you have not received our new catalog, drop us a line for one. It is free for the asking. Our office is located in the Lincoln Hotel Building.

Watson, Woods Bros. & Kelly Co., Lincoln, Neb.

PINE RIDGE PERCHERONS

ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST OF THE HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.****Imported Percherons, Shires, French Coachers
STALLIONS AND MARES****\$1,000 IS THE PRICE ON STALLIONS
FOR NEXT THIRTY DAYS \$1,000**

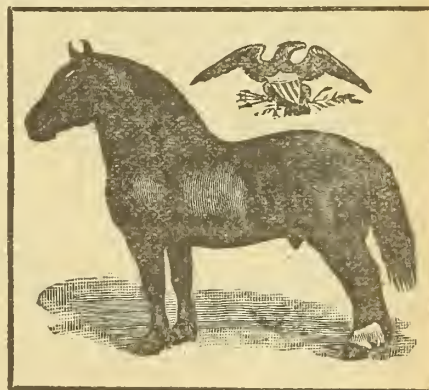
Mares bred to the Champion, CARNOT 66666. Come and see them.

S. J. MILLER, KIRKSVILLE, MISSOURI.

When Writing to Advertisers Please Mention This Paper

**GREELEY HORSE
IMPORTING COMPANY****WORLD'S GREATEST IMPORTING ESTABLISHMENT**

**Percherons,
Belgians,
Shires,
German and French
Coachers,
Hackneys.**

**500 STALLIONS IMPORTED IN 1909**

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

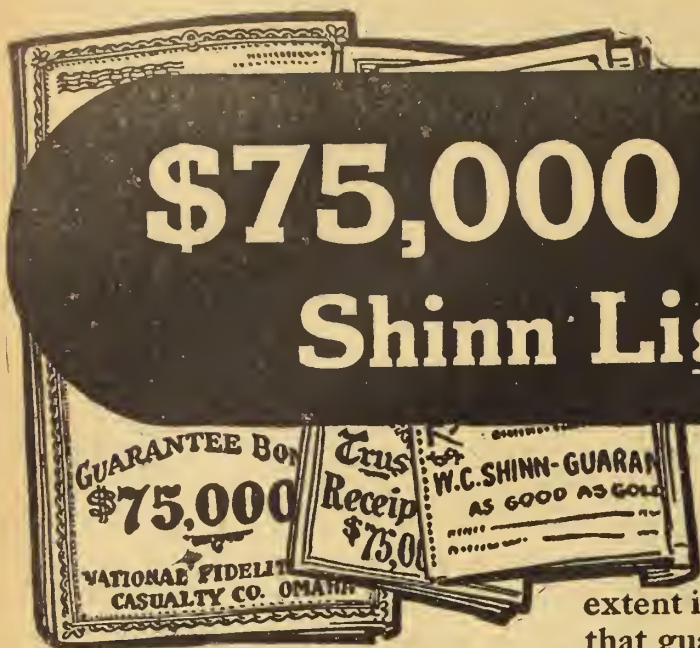
Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

A. B. HOLBERT, Greeley, Ia.**OUR LAST IMPORTATION OF
IMPORTED PERCHERON Stallions and Mares
LANDED AT OUR BARN IN OCTOBER**We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.****PERCHERONS AND PERCHERONS ONLY****ERNEST L. HUMBERT & SON, CORNING, IOWA,**

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 18th. Ernest L. Humbert & Son, Corning, Ia.

When Writing to Advertisers Please Mention This Paper

\$75,000 Bond Backs Shinn Lightning Rod!



When your farm home and buildings are protected by Shinn's rods you get from your dealer a legally-binding guarantee, backed by a \$75,000 bond, which insures you the return of your money to this extent in making good any damage caused by lightning—and that guarantee is backed by a \$75,000 bond!

Mr. W. C. Shinn has posted \$75,000 in the form of a bond. It is issued by the National Fidelity and Casualty Company, Omaha, Neb., and deposited with the National Bank of Commerce as trustee. Here's the receipt:

"This bank holds for the benefit of the purchasers of the W. C. Shinn System of Lightning Rods a bond of \$75,000, executed by the National Fidelity and Casualty Company, of Omaha, Nebraska. NATIONAL BANK OF COMMERCE, Lincoln, Neb."

That bond backs this wonderful rod! It stands behind your judgment in choosing the only absolutely perfect lightning protector in the world! Every guarantee and promise in this ad—in all W. C. Shinn's advertising—is vouched for by a fortune! An insurance policy FREE! That's what these bonds and guarantees will give you.

No other lightning rod on earth is or can be made to come anywhere near the Shinn standard, for Shinn Rods possess maximum electrical carrying power—no bolt is too big or too strong for Shinn Rod to shoot it harmlessly straight down into the earth! No higher degree of efficiency is obtainable!

SHINN Heavy Pure Copper Cable LIGHTNING RODS!

The Shinn special construction process produces greatest possible conductivity. Shinn 1910 rod is 3 cables in strength! It's heavier than ever before. Visit your dealer at the earliest opportunity and actually prove this to your own satisfaction. Inspect the strands of Shinn's Pure Copper Cable Lightning Rod—each strand a protector in itself. See the large center strand—the copper cable which prevents the lightning stroke, making it absolutely harmless!

This rod is built on Nature's laws—infallible scientific principles—discovery of which has given Mr. Shinn the deserved title of Conqueror of Lightning!

Shinn Lightning Arrester Protects Your Telephone!

Shinn's Lightning Arrester for telephones makes it possible, without the least trouble or danger, to use the 'phone during any storm. Your dealer will attach the arrester on the outside of your home.

Lightning may run for miles along the wires, but the instant it nears the arrester it is sidetracked and shot down into the ground! Terrific bolts are made harmless. Don't depend on the mica fuse in the 'phone. Lightning bolts that leap 5 miles from sky to earth aren't going to stop because the fuse has disconnected the 'phone. They jump clear across the gap and into the 'phone!

Scientific investigations prove the Shinn Lightning Arrester is the only absolutely sure way to balk the bolts! Your 'phone is always in working order during storms. Besides, your home is protected against fire caused by lightning.

"My Buildings Lightning Proof Forever"

Can you say that about your farm home and buildings? Your neighbor, whose place is equipped with Shinn Pure Copper Cable Lightning Rods, has not only made his buildings lightning proof forever, but he is practically insured against Fire caused by Lightning! Now is the time to act—before the storm! Protect your home and buildings with the only absolutely perfect rod—the only rod that world's scientists sanction and urge all farmers to protect themselves and property with.

Get Shinn Rods at your dealer's or fill out and mail accompanying coupon and we will give you the name of the nearest dealer who will supply you.

See the Thunderstorm Machine!

Every dealer who sells Shinn Pure Copper Cable Rods has Shinn's Thunderstorm Machine on exhibition. He will be glad to show how this fascinating miniature storm producer demonstrates the protection of Shinn Rods. It shows just why no building equipped with Shinn Rods can be struck by lightning. If your dealer has not yet secured this wonderful machine, mail us the coupon, giving his name and address, and we will tell you just where you can see this device at work.

Great Buildings Protected by Shinn

Shinn Pure Copper Cable Rods protect the University of Nebraska's main building. The main chimney of the Beatrice Creamery Company's enormous cold storage plant is protected by carrying the cable lightning rod to its very top, making it absolutely lightning proof.

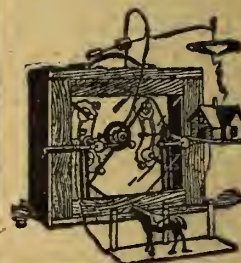
"Lightning, and How to Control It"—FREE!

That's the title of Mr. Shinn's own book, which proves how easy to understand, how plain and simple are the laws of lightning. It tells what articles in any home attract lightning bolts, and tells how to best guard against loss of life and property.

The coupon will bring this book FREE by return mail. Mail it today to

W. C. Shinn, 101 North 16th St., Lincoln, Neb.

See this Thunderstorm Machine at your Dealer's!



What Scientists Say!

Mr. Shinn has set the scientific world by the ears! This work of research has gained for him the title of Conqueror of Lightning. Learned college professors who devote their lives to this subject are amazed at his successes. Among their investigations they analyzed the copper in the cable used in Shinn Rods. Here are the results of a few:

"The sample of Copper Cable sent to me has been analyzed and found to contain 99.86 per cent pure copper." **PROF. A. D. WILHOIT.**

"The sample of Copper Cable upon analysis proves to be practically pure copper, since I find that it contains 99.88 per cent copper." **PROF. W. J. KARSLAKE.**



Shinn Lightning Arrester Fully Protected

Your Vane Your Business Card!

Take your choice of scores of handsome vanes that will beautify your buildings. What do you pride yourself on raising—sheep, cattle, hogs, horses, poultry—no matter what you raise the most of, we've got a handsome vane to ornament your buildings with—a regular business card!

Our new "Sequal Vane" is the sensation of the year! It is perfectly modeled after the famous imported English Hackney, "Sequal."

See this and other vanes at your dealer's.

W. C. SHINN, Lincoln, Neb.

Please send your book "Lightning and How to Control It" and also name nearest dealer where Thunderstorm machine can be seen

Name _____

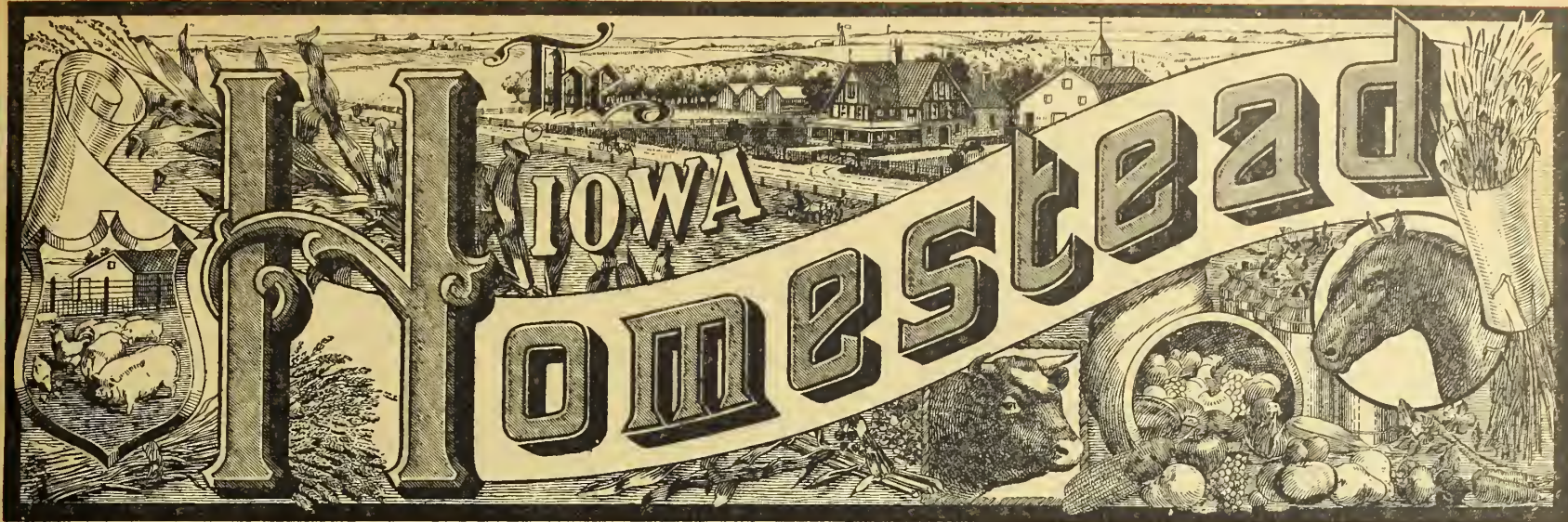
Town _____

R. F. D. _____

State _____

My Dealer's Name _____

Address _____



VOL. LV. NO. 19

DES MOINES, IOWA, MAY 12, 1910

WHOLE NO. 2744



The Start
Mountains and Snow
40% Grade in Alkali Sand
Sharp Volcanic Rocks
35 and 40% grades
Sand Drifts over hubs
Trackless Desert
Temperature 120°
8000 ft. Altitude
Finish 2400 miles

Why The Chalmers "30" Made This Trip

It is not because the Chalmers Car made this trip that it is the greatest car in its class. It was officially chosen to blaze the way for the "Flag to Flag" Endurance Run, Denver to Mexico City, because it was the greatest car in its class.

For the same reason it has been selected official Pathfinder for the Glidden Tour of 1910.

Automobile owners who know unreservedly give Chalmers Cars their first choice as the greatest automobile value offered, in every point of comparison.

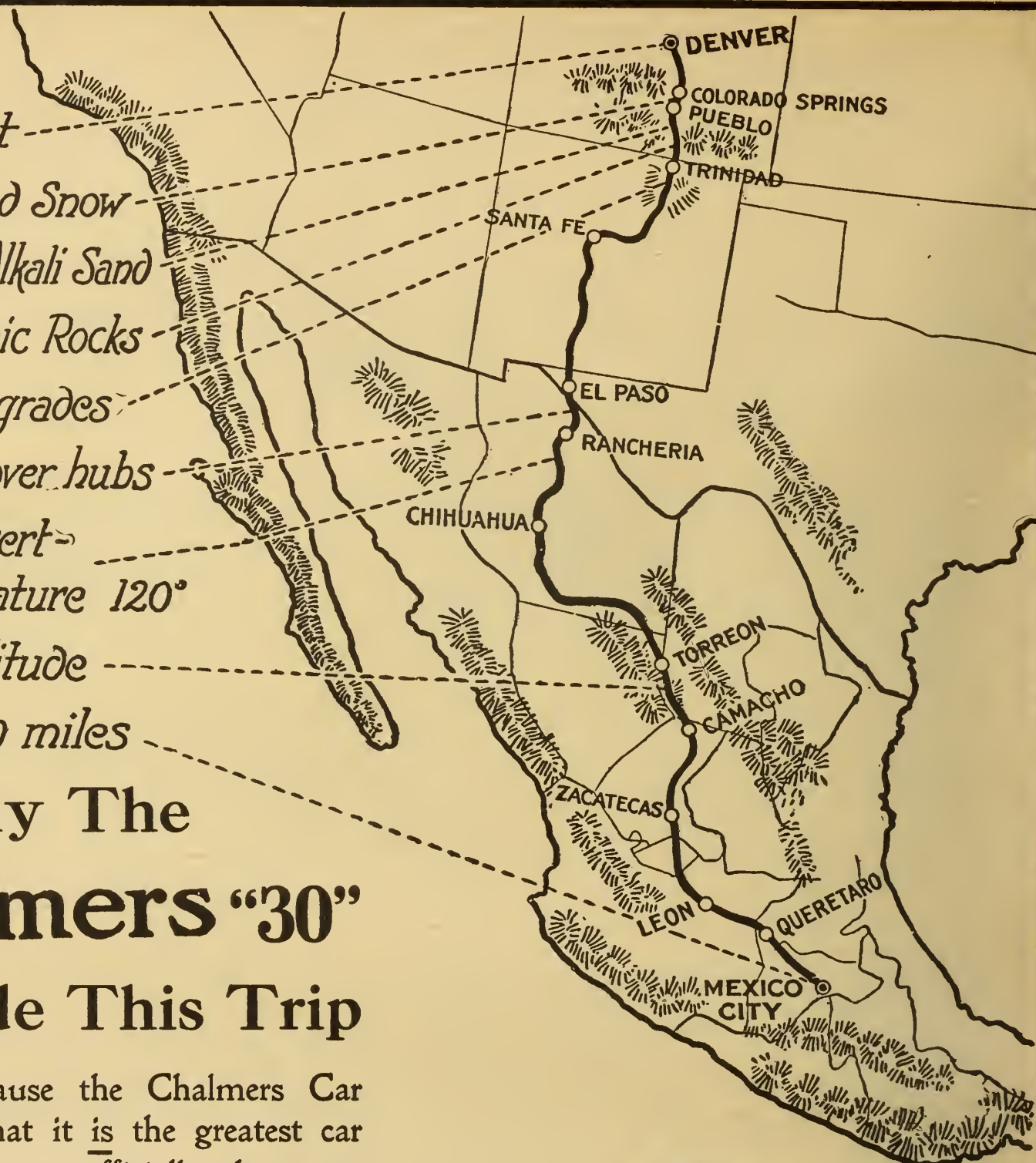
It is this word of mouth, from man to man, rather than the printed page that is the best advertisement for Chalmers Cars, "30" and "Forty."

Send for Catalogue "A H" and learn for yourself.

Chalmers Motor Company

(Licensed under Selden Patent)

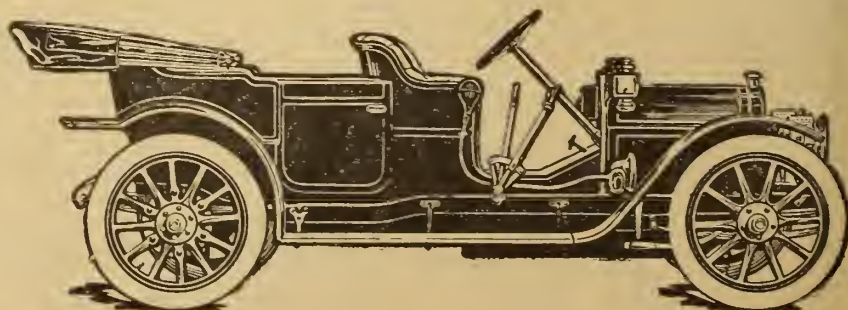
Detroit, Michigan, U. S. A.



On the Radiator

Chalmers "30"
\$1500

Chalmers "Forty"
\$2750



The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MAY 12, 1910.

More Practical Education Needed

A VERY serious, and I may almost say threatening, problem confronts the industries of the United States. I mean to speak to you and your associates of this problem in this letter. Six years of travel and study in Germany, where I saw a wonderful industrial development, carried on by a nation of highly-trained workers, as well as three years of practical experience as schoolman and manufacturer in America, have given me an unusual opportunity of gaining an insight into our present difficulty. Will you give this matter your earnest consideration, for surely it concerns us all alike, and we must all work together if a remedy is to be found.

Four generations ago our forefathers, a few millions in number, scattered along the Atlantic Seaboard, had to their west a vast, untouched continent, rich in timber, ores, and soil fertility beyond anything the white man had ever found. These vast natural resources were successfully exploited, our wealth increased as if by magic, and today our population of 90,000,000 has occupied the whole continent, from ocean to ocean, but not without leaving its mark on the land. Our timber is more than half cut, our ore and coal deposits are beginning to show signs of depletion, our impaired soil fertility yields now eighteen and twenty bushels in place of the forty of the virgin prairies. Our numbers continue to increase, and every new-born child brings with it a mouth, but no natural wealth excepting the labor power of its hands.

These hands, when skilled and directed by high intelligence, can create wealth of all forms, and, henceforth, we must depend at home and for export into the world's markets, on our labor power in place of our natural resources. This means that we must become predominantly a manufacturing and industrial people, a course upon which we have already started. We shall be obliged to meet at first in the world's markets and later at home, the products of Germany and Japan, those master modern nations, crowded throughout with a surplus of skilled and efficient labor. We cannot compete with them through cheap, raw materials and a low cost of living, which are things of the past in the United States. We can meet them only by the superior skill and better training of masses of American workmen. Where are they?

In pioneer days, to break the virgin prairies,

By Edward H. Rumely

fell the forest, and build the railroads, called for brawn—the muscles of millions of arms and hands. As a modern manufacturing nation, American supremacy must rest upon superior factory organization and vast numbers of efficient workers for every branch of industry, willing to put in a full day's work for a reasonable wage, men whose habits and training from childhood up have given them interest and genuine pleasure in their work.

Immigration from England, Norway, Germany and Switzerland formerly brought great numbers of such. Today, the tide is sweeping from southern Europe hordes of Latins and Slavs, without schooling, culture, and without training or skill at any trade. To them we cannot look for our skilled factory workers, and perhaps it is well that we should not. What would otherwise become of our own boys and girls? Surely they all could not find places as clerks in stores, banks and offices, as doctors and lawyers. And yet for this our public school system attempts to train them all. Of 127 who enter, one reaches college, and for him the entire course of studies is shaped, leaving the other 126, who drop out on the way, without any specific training to fit them for their life's work as machinists, carpenters, printers, telegraphers. And the right kind of school could give each of them, in addition to the three R's and book knowledge, thorough training for his work!

A few individual manufacturers, pressed by this need of skilled workers, have started schools of their own, only to find that often the results are lost to themselves when their employes move to other cities. A few of our larger cities have established separate trade schools, but our problem is nation-wide, and nothing but a reorganization of our whole public school system will meet it. How can we make our schools, upon which we spend more money than any other people, fit our children for their life's work, and furnish our industries, the source of our national wealth, with their army of skilled and willing workers?

The existing public school system was shaped to meet the need of an earlier time, and is the outgrowth of conditions that existed then. Industry was formerly centered in the home, where they used to grow their own food, spin and weave their own cloth, make

their soap, dip candles; the father, if he happened to be a cabinet maker or blacksmith, shaped his wood and forged his metal near his home, within sight of his children; each child was called upon while still young to share the parent's activity. It gained not only an insight into the industrial processes, but it acquired habits of work, and training for its future occupation. Then, the school was properly a place to which children were sent for a few hours every day, to pick up the essentials of reading, writing, and spelling, and a little information about geography and history. Now, industry has passed forever from the home into the factory system. Sciences like physics and chemistry have become vital factors in the productive processes. Skill and accurate knowledge are needed as never before. The home can no longer give the boy and girl training for their life's work. The school must assume this function.

The leaders of educational thought and pedagogy, as well as hundreds of normal schools, have been at work during the past century in creating our public school as it exists today, in formulating methods for instructing in reading, writing, spelling, history, and geography, that is, for teaching book subjects.

Work must now become part of the school course. How shall we prepare a vast army of teachers, capable of imparting training for industrial work? How can we create the new American school?

Our professional educators are too much cut off from contact with active life to feel the need of our time. Business men, conscious of the crisis, must give the impulse.

A model school, that will demonstrate, under ideal conditions, a course of studies for children from the eighth to the eighteenth year, in which vocational training will be given in addition to book learning, must be built.

ALFALFA IN CORN.

The following communication has been received from a subscriber at Mt. Carroll, Ill.:

"I have a small piece of rich, black land that has been used as a hog pasture. I contemplate putting in corn this year, but would like to return to hog pasture as soon as possible."

(Continued on page 5.)



FIVE "TOP NOTCHERS"—IAMS' FAMOUS "PEACHES AND CREAM" STALLIONS ON WHICH HE HAS REDUCED THE PRICES \$200 TO \$500 EACH. SEE FIELD NOTE.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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PUBLISHED EVERY THURSDAY

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HOW THICK TO PLANT CORN.

This is a subject that we always hesitate to discuss, because so much depends upon climatic conditions during the season that it is almost a guess whether to plant thin, to plant thick or to plant just right. Mr. George Steen, of Muscatine county, Iowa, is a successful corn grower. He has grown a great deal of premium corn and he has made a reputation for getting large yields. On this subject of thickness of planting he says:

The question of knowing what is the proper number of plants to the hill or the acre is an important one. The common statement that three in a hill is the right number, the hills being three and a half feet apart or the equivalent number if drilled, is not always true. While three in the hill is the proper number in many instances, yet it is not always the case. This has been the standard number, but is not always the correct one.

On rich land, such as river bottoms, rich pastures or lots, in many cases five to a hill are none too many and four to the hill is a very satisfactory number on many fields in a high state of cultivation. On worn land from two to two and a half plants to the hill might be thick planting.

The locality is a large factor in determining the number of plants to the acre. The drier parts of the corn belt require thinner planting than in the more humid sections. The northern localities, that cannot produce large corn on account of shortness of the season, can advantageously plant thick and secure large yields with their small corn.

The thickness of planting is a question of variety, fertility and moisture. The variety has something to do with it, a large one thinner and small varieties thicker planting. The man that disks his fall plowing early in the spring and keeps his spring plowing well harrowed up can safely plant thicker than the man who disregards the conservation of moisture because he has a larger supply available for the use of his plants when a dry time comes.

From a large number of counts that I have made in past years, the average run of the usual plantings scarcely makes two plants to the hill. Securing a large yield is determined in a large measure by the stand. Just what is the proper number cannot always be determined. The number that would make the largest yield in a normal season might be detrimental in a dry one. But I question whether we have always been planting the right quantity of seed. Even with the seed and care there is some loss from a number of causes.

There is one principle which holds good with reference to a large variety of crops, and that is that thick seeding will, in a great majority of cases, outyield thin seeding; yes, we will go further and say that it will, in a great majority of instances, outyield a crop that is seeded in accordance with the prevailing custom. Take it in potato growing; if the sets are placed seven inches apart, you will get a greater weight per acre than if they are ten inches apart, but, of course, there might not be any more marketable potatoes. The same principle holds true in all classes of roots. Mangel-wurzels, for instance, are usually thinned to about twelve inches in the row. On rich ground the crop ought to yield twenty tons per acre. If the plants are thinned to six or eight inches in the row, the chances are that there will be anywhere from five to seven tons more per acre, but, of course, there will be more small mangels. Taking everything into consideration, a root grower would rather have twenty tons of uniform roots than to have twenty-five tons of the smaller kind.

Even in corn the same general prin-

ciple holds good if carried only to a certain point. At the Illinois station a number of plats of corn planted at the rate of five kernels per hill averaged fifty-three bushels per acre, while four kernels averaged forty-seven and three kernels, forty-six. In summarizing thirty-nine experiments conducted in twelve counties in Iowa, Messrs. Bowman & Crossley, in their book on corn, find that five kernels per hill gave a slightly larger yield than any other number, though the increase over three kernels per hill was only three bushels per acre. And so the matter goes. We have no hesitation in expressing the opinion that too little seed is used on the whole. Where the aim is to get three kernels per hill we doubt if it averages more than two and one-half, and while thick planting is an objection on a dry year, yet, taking it one year with another throughout a considerable portion of the corn belt, we have no hesitation in advising putting four kernels in a good many hills and three in the balance. To put the matter another way, we would much rather have a planter dropping from three to five kernels than we would have from two to four. Of course, as pointed out by Mr. Steen, on thin, bare soil it would be a great mistake to plant thickly.

THE 1910 DODDIE PREMIUMS.

The secretary of the American Aberdeen Angus Association has recently prepared a list of the premiums which will be offered by that association at the leading fairs and expositions this year, together with the amount offered by the fairs and expositions themselves. The first column in the following table gives the amount offered by the Aberdeen Angus Association, while the second itemizes the amount offered by the various fairs and associations:

Am. Royal Live Stock Show, Kansas City, Mo.	\$ 3,000	\$ 4,000
Brandon Summer Fair, Brandon, Manitoba, Can.	150	1,000
Brandon Winter Fair, Brandon, Manitoba, Can.	50	555
Colorado Interstate Fair, Denver, Colo.	100	785
Colorado Western Stock Show, Denver, Colo.	900	3,140
Illinois State Fair, Springfield, Ill.	300	1,080
Indiana State Fair, Indianapolis, Ind.	300	1,216
International Live Stock Exposition, Chicago, Ill.	5,000	12,350
International Agr'l Exhibition, Buenos Ayres, S. A.	100	445
Iowa State Fair, Des Moines, Iowa.	700	1,495
Iowa Interstate Fair, Sioux City, Iowa.	500	927
Kansas State Fair, Hutchinson, Kan.	300	604
Kentucky Blue Grass Fair, Lexington, Ky.	200	250
Kentucky State Fair, Louisville, Ky.	200	468
Michigan State Fair, Detroit, Mich.	200	724
Minnesota State Fair, Hamlin, Minn.	300	1,975
Missouri State Fair, Sedalia, Mo.	300	840
Missouri Interstate Show, So. St. Joseph, Mo.	1,000	2,136
Montana State Fair, Helena, Mont.	100	338
Nebraska State Fair, Lincoln, Neb.	200	633
North Dakota State Fair, Fargo, N. D.	200	630
Ohio State Fair, Columbus, Ohio.	300	643
Oklahoma State Fair, Oklahoma City, Okla.	200	700
South Dakota State Fair, Huron, S. D.	200	409
Tennessee State Fair, Nashville, Tenn.	100	890
Fort Worth Show, Fort Worth, Tex.	575	3,830
San Antonio Show, San Antonio, Tex.	100	480
Virginia State Fair, Richmond, Va.	100	390
West Virginia State Fair, Wheeling, W. Va.	200	370
Wisconsin State Fair, Milwaukee, Wis.	200	965
Wyoming State Fair, Douglas, Wyo.	100	507
Total American Aberdeen Angus Breeders' Association premiums	\$16,125	
Total other premiums		\$40,336
Grand total		\$56,461

This makes a grand total of more than \$56,000 which will be hung up this fall in cash premiums to be offered in the Aberdeen Angus classes. This amount of money in addition to the publicity which the exhibitor receives ought to mean that the strongest doddie classes will be out this fall that have ever been seen in the show rings of the United States.

THE BOY WHO STAYS.

An exchange tells an interesting story of how a young farm boy succeeded. The story has a moral, which is this: The boy kept on the farm by being given a small piece of land or a head or two of stock of his own will succeed and will stay on the farm nine times out of ten, where the boy who is made to work hard and long without any individual interest or particular remuneration will find himself losing interest in the farm and being lured to the city.

This boy was one of three sons, all of whom were raised on the farm and all of whom were given the same chance. Two of the boys left home early, going to the city to seek their fortune. The boy who remained was given a colt by his father. He possessed a trading knack to a considerable degree and kept bartering around until he had a work team and finally a surplus of money. Seeing that he possessed considerable business abil-

ity, the father entered into an arrangement with him whereby the boy was to have one-third of all the profits of the farm and to bear one-third of the expenses.

When he was twenty-three the young man married a neighbor girl and, although his bank surplus was small, he bought a sixty-acre farm, paying a small amount down and pledging himself to wipe out the indebtedness in annual instalments. Being burdened with this rather heavy debt he went to work more earnestly and industriously than ever before, with the result that today, three years after buying the farm, he has paid off \$850 of the principal, in addition to a great deal for interest and taxes. Next year he plans to build a barn and add other improvements to his farm. The farm had been used badly before he came in possession of it, but by saving all the manure, tending the crops well, keeping the stock off the fields when soft and rotating the crops, he has made a great change even in the short period of three years. His industry has impressed itself on the neighbors so that he has more calls for his services than he can answer. His own work, however, comes first always, but he has no objection to putting in spare days working for the neighbors and doing such small jobs as add to the family income.

In the meantime, the two boys who went to the city are working on comparatively small salaries for other men and have accumulated but little property of their own. They had the same chance as the boy who stayed on the farm, but they preferred to strike out for themselves, thinking that the city presented better opportunities and advantages. Long before this they have probably admitted to themselves that they made a grievous blunder.

What this boy (who happens to live in Oklahoma) has done other boys

as effective work with a harrow, but by all means harrow your soil two or three times just before planting. It will surprise you how much you will accomplish in the way of weed destruction, but that is not all. About four or five days after your corn is planted go after it again with a harrow and take the time to give it at least two harrowings, and so much the better if you can go over it again just as the corn begins to make its appearance through the surface. If this amount of labor is performed you need not worry about the weather for the first three or four weeks after your corn is planted, because your crop is ahead of the weeds and your first plowing will very effectively head them off. I have seen fields handled in this way where the corn plants were at least four inches tall when the weeds were just beginning to shoot through the surface, and every man knows that it is simply fun to cultivate a corn crop when it is in that condition.

Now I appreciate the fact that when the weather is wet it is sometimes a little difficult to do just what you would like to do in this matter of weed destruction, but my theory is that even if part of your crop is planted very late it will pay every time to employ the same system of weed destruction. Put one of your teams back onto the land that has been planted before the crop is all in, rather than to run the risk of letting the corn plants get above the ground without doing any harrowing.

There is no question but what these sentiments are sound as applied to the conditions in the great central West. Our comparatively small yield is due more to the rank growth of weeds that takes place every year in our cornfields, than it is to waning fertility. Weeds take an enormous amount of moisture from the soil and very often it is the moisture supply that determines the yield. That is why it pays, and pays well, to destroy weeds when the work can be done with three or four horses rather than to leave it to be accomplished with a regular corn cultivator. The anxiety to get the corn crop into the ground in many cases works tremendous havoc with production, and a little neglect of a given field just before or just after planting is often quite enough to make a difference of twenty bushels per acre in the yield.

A 200-POUND PIG IN SEVEN MONTHS.

The following communication has been received from a Missouri subscriber:

I have 100 nice March and April pigs and I hardly know what plan to pursue in handling them during the next seven or eight months. I have generally carried my pigs until they were about ten months old and I usually get them up to weigh about 250 pounds at that age. One of my neighbors forces his right from the start and he frequently has had his pigs weigh 200 pounds at seven months. Which do you think is the more profitable, to let your pigs mature more slowly and bring to a weight of 250 pounds at ten months, or sell them at seven months weighing in the neighborhood of 200 pounds?

If we knew the exact conditions under which these pigs were to be raised we could give more specific advice. Where there is plenty of pasture we think that the longer route is a much more profitable one, because in that case they can be carried from the time they are weaned until they weigh 125 pounds on a very small amount of grain if the pasture is good, and particularly if the pasture is made up of legumes in part, such as alfalfa or red clover. One very good swine raiser of our acquaintance claims that he can carry his pigs along from weaning time until they weigh 125 pounds, on a grain ration not to exceed one and one-half pounds daily per head, and that by handling them in this way he can have them around 125 pounds at six months. Where this method can be followed we believe that it will pay to carry them on till they are ten or eleven months old, but by that time they ought to range between 250 and 300 pounds.

It need scarcely be said that where it is intended to let the hog follow steers, they should not be forced too much when young and, indeed, they can be carried in rather lean condition until they are six or seven months old. The steer feeding proposition is such that about all the money there is in it nowadays is made on the hogs that follow the cattle, and the more one can cut down the cost of the hogs up to the time they are put in the cattle yards the larger his profits will be.

But there are conditions under which it is advisable to force the pigs right from the start. Where pasture

is scarce and where high-priced grain must be depended on largely for growth and for fattening purposes, then the quicker one can get out from under them the better off he will be. In that case a variety of foods should be used such as corn, a little mill feed, with a small proportion of supplementary foods such as oil meal or tankage. The critical time is just before and just after weaning. Get the little fellows on a rather strong ration before weaning and at the right time cut down the supply of food given the old sows, so that they will just naturally wean the pigs before they are turned away from them. By that plan the little pig never gets a setback. Liberal feeding during the month following weaning puts a pig squarely on his feet so that he ought to tip the beam at 200 when he is seven months old. Of course, men who feed for the show ring can easily get that weight at six months, but under ordinary farm conditions it will take good feeding to make it in the longer period.

BETTER RURAL TEACHERS.

At a conference of the county superintendents of Iowa, held in Des Moines last week, steps were taken to introduce a rural teachers' course of study, together with a model rural school and training department, into the Iowa State Teachers' College at Cedar Falls. According to the eighty-five county superintendents present at the conference agriculture is being taught in the rural schools by teachers who have little or no knowledge of the subject. Because of the important relation of this subject to the rural communities the superintendents declared it is imperative that the teacher be given normal school instruction, to the end that she may better impart her knowledge to the children of the rural district, where only the theoretical side of the subject is needed in the schoolroom. The following resolutions were adopted:

Resolved, That we, county superintendents of the state of Iowa, in convention assembled, recognizing the state wide need for teachers specifically trained for the rural school work of our state, do hereby urge upon our Iowa State Teachers' College and its executive and business management to begin at once to provide for a special rural teachers' course of study together with a model rural school and training department.

The course of study to provide for the usual teachers' training subjects and in addition to give this class of teacher-students a course in elementary agriculture, domestic science and the manual arts as applied to rural life.

Be It Further Resolved, That we recommend to the next general assembly of Iowa to provide by necessary legislation an appropriation for the establishment of county or district training schools which shall give the following courses of study:

Normal training courses for rural teachers.
Manual arts.
Domestic science and
Elementary agriculture.

Because of the shortage of labor on the farms and the necessity of boys between the ages of twelve and fourteen working on their fathers' farms during the busy summer season, the county superintendents went on record as favoring a four months' compulsory school year for these boys. The present law makes it compulsory on all children under fourteen years of age to remain in school continuously for twenty-four weeks. It is impossible to enforce the law, say the county superintendents, for the reason that boys between the ages of twelve and fourteen are needed to work on the farm. They contend, moreover, that it is inconsistent to keep these boys in the schoolroom and teach them the theoretical rudiments of agriculture when they can be learning practical farming on their own farms. This matter has come up in several forms during the past few years and promises to be one of the important problems to be thrashed over at the next session of the Iowa legislature.

Before adjourning the superintendents passed a resolution commending the work of President Storms, of the Iowa State Agricultural College, and calling on the next legislature to provide for two or more extension workers. The extension department of the agricultural college has been doing a splendid work and the superintendents believe that it should not be hampered by lack of funds. They will make a vigorous effort to have the legislature

rise to the emergency and provide for future needs.

"THIEVING" AMONG PIGS.

We never know how much profit we make or how much loss we suffer in handling runt pigs. Say what we will we like large litters and most of us are willing to lose considerable sleep in order to make the "average" litter as large as possible. We have no fault to find with this attitude, but we have a suggestion or two that may be of some value to beginners.

The dominant secret of successful swine raising is to keep the pigs that come in a given season of the year as uniform in size as possible. This can only be done when the pigs and sows are handled in such a way as to absolutely prevent thieving. Sometimes we are apt to regard this matter of stealing as a piece of out-and-out devilry among the pigs, but the fact in the case is there is generally a very good reason for a little pig's deviation from the path of rectitude. One sow with an uneven udder can often with her litter work havoc in a bunch of 100 pigs, because when the little fellows find they are starving they will stop at nothing to save themselves. Like all forms of degeneration a start is all that is needed. When it is once started the only remedy is to put that particular sow and her litter in a pen by themselves. We would rather shut them up for a period of ten or twelve weeks and keep them entirely away from grass than to run the risk of "runting" a dozen or fifteen other pigs which would unquestionably result from the stealing process.

As a matter of fact, the best pigs that we have ever raised were cared for in this way. Not more than two sows and their litters were kept together until after weaning time, and even the pairing process was not started until the little pigs were at least two or three weeks old. Be sure that the small pigs know their mother absolutely before they are turned in with another sow. This plan may necessitate using considerable fencing, especially if it is the plan to allow the sow and the pigs to have plenty of pasture. A half-acre lot will ordinarily bring two sows and their litters through in excellent shape, and temporary fences will separate them very conveniently. Of course, the experiment sometimes may be tried of putting three sows together, or even four, but they must be watched closely for a few days so as to see whether or not there is likely to be any stealing.

A case was called to our attention last year where a swine breeder who was rather short of pasture adopted the plan of keeping each sow in a little yard by herself, but allowing the pigs the run of a large pasture. Fifteen sows were handled in this way and something like 120 uniform pigs were raised from this number. Not in a single instance did a little pig trespass in any lot but his own, so that no stealing was engaged in whatever. Of course, this plan makes the feeding of the old sows rather more expensive than if they had access to grass, but on the other hand, the loss incurred in that way may be made up many times before the bunch of pigs is marketed at the age of ten or twelve months. We have had some bitter experiences of our own caused by pigs stealing from one another, and as said before, we advise the taking of every conceivable and possible precaution rather than have a bunch of pigs runted in that way.

STATE FAIR SWINE REGULATIONS

Swine breeders who expect to exhibit at any of the state fairs will do well to inform themselves fully as to the revision of classifications and other requirements that go into effect this year.

One of the changes is that in class for produce of sow, the showing may consist of four of her pigs any age. Previous shows in this class have called for pigs under six months. The Iowa State Fair championship prizes have been re-classed, so that they are shown by senior championships, junior championships and grand championships. In each of the junior and senior championships the prize is \$15

and the grand champion prize is \$25. The date for computing age of swine has been set for September 1st, except that in the junior rings the date shall be March 1st.

THE PLACE FOR MILLET.

There is an irrational prejudice in the minds of many farmers against the use of millet as a forage crop. This is due to the fact that injurious results have been produced by the feeding of millet hay, particularly in connection with its use as a horse food. As a matter of fact, when properly used millet is one of the most palatable forage crops of the whole list, and furthermore when one or two simple precautions are taken it is as safe as any other kind of hay or forage. It is richer than timothy hay in flesh-forming constituents, while under anything like favorable circumstances it will yield two or three times as much as timothy. There is just one qualification needed in recommending millet, and that is the crop must be cut at the right time. If millet is allowed to stand until the seeds harden the hay produced will be unpalatable, while the seed itself affects the kidneys of animals injuriously, particularly horses. The time to cut is determined by a close examination of the head and particularly the seed. The crop should be all headed out, but it should be cut when the seed is just coming into the milk condition. It is true that there will be a heavy shrink after cutting because the crop is very succulent at that time, but even if allowance is made for the shrinkage the yield is ordinarily very large.

Millet is a warm weather plant and consequently it may be sown any time up until the middle of July with reasonable assurance that it will produce a satisfactory hay crop. As the seed is small it is absolutely necessary to prepare the seed bed well so that a uniform covering of the seed may be made. Indeed there are few crops in the whole list where a good seed bed preparation will pay better than it will in the case of millet. Thickness of seeding may vary all the way from two to four pecks per acre. If the land is very rich the crop will likely grow quite rank and in that case thick seeding is absolutely necessary in order to keep the stems fine and make the hay as palatable as possible. On rich land it is not an unusual thing to get a yield of three to even four tons of cured millet hay per acre, and as the prospect for a satisfactory hay crop this year is not the very best at the present time, it will not be surprising if a good many farmers find it necessary to plow up a part of their hay land and sow to millet. When the prospects are that the entire meadow on a particular farm will not produce more than one-half or one ton per acre, it will certainly pay and pay well to plow up a portion of it and sow to millet.

DRY FEED OR PASTURE FOR MARES.

Most of the brood mares in the central West are dual purpose in character. They not only raise colts but most of them put in eight or ten hours of strenuous labor every day after the colt is ten days or two weeks old. When handled in this way it is just a question whether the mare and colt should be turned to the grass at night or kept on dry feed. Men differ in their opinion on this matter and in order to present one side of the case we beg leave to quote from Mr. J. H. S. Johnstone's excellent book on the horse:

Foals to develop to their best should have about all the grain they will eat, and their dams should be well fed also. If the mares are worked their feeding need not bother anyone. Their foals should have oatmeal and bran as already described to eat at will, only a little at a time, and the supply renewed often so as to keep it always fresh and sweet. As a general proposition I do not favor turning out on grass at night any horse that is working regularly, whether it is a nursing mare or any other work horse. It should be either one thing or the other—work and dry rations only, or grass and idleness; the two will not mix to advantage. The fill of green grass which work horses get at night in pasture does them no good and it saves nothing. If horses are to do a proper

amount of work they must have about so much grain and hay anyway, and the fill of grass they get in pasture between dark and sunrise serves merely to overload their digestive apparatus. It is better to keep them in the stable and let them rest in peace. It is a mistake even to turn them out on Sundays or on odd days when they are not working. If they must be idle, reduce their grain rations and let them stay in the stable and rest. When the foal gets old enough he may eat grass if he wants it and his grain as well, but the milk he sucks should always be the same. Hence let the feeding of the mare be uniform.

For our own part we will say that our experience does not coincide with Mr. Johnstone's teaching. We have been in the business of raising colts for a number of years and we have never had horses enough to perform the labor so that the mares could run idle. We generally plan as nearly as possible to have the colts come in May or June and usually the mares are used to the grass before that time. They not only spend Sunday on the grass, but if the weather is at all warm their week-day nights are spent there as well. Our own experience leads us to believe that a small pasture near the buildings is an ideal foaling place and we have never had a colt contract joint-ill or anything of the kind, whose first couch was the green grass.

But getting back to the treatment of the mare after foaling, when she is obliged to labor we have always preferred the plan of keeping her on the grass at night whenever the weather is favorable. Of course, it goes without saying that during rainy spells or during very cold periods the mare and colt should be kept in a box stall, but taking ordinary late May and June weather as it comes, we prefer the plan of letting the mare and colt graze at night. We not only prefer this practice with the brood mare but we like to pasture all the work horses at night and we believe that at ordinary farm work one would be quite safe in entering a contest to maintain horses in uniform flesh when they are turned out to pasture at night against all comers who would prefer dry feed only. Theoretically one would think that the work horse ought to rest at night instead of being obliged to graze for several hours during the natural resting period, but practically the effect of the grazing and the night exercise is conducive to the very best kind of health and thrift.

ALFALFA IN CORN.

(Continued from page 3.)

sible. I have been thinking of trying alfalfa, but do not know anything about it. Would it do to sow at the last plowing of the corn; if so, had it better be sown before or after plowing?"

We cannot recommend a plan of sowing alfalfa in corn previous to the last cultivation. Sometimes red clover when seeded in that way will come through in very good shape, but alfalfa is rather a slow grower in the beginning and, because of this, we would not advise sowing it in a crop of corn.

This ground might be put in rape and used as a pasture until about the first of August, at which time it may be plowed, a good seed bed prepared and alfalfa seeded at the rate of twenty or twenty-five pounds per acre about the middle of August. In that way some use could be made of the land this year and at the same time a stand of alfalfa obtained. Another plan would be to summer-fallow the land this year, which simply means that the land should be plowed just as soon as possible, if it hasn't been plowed in the fall, and follow this up with surface cultivation every ten days or two weeks in order to keep the weeds down. It is so necessary and so important to get a good stand of alfalfa when it is intended for hog pasture that it will almost pay to give up the use of the land in this way, because the stand will unquestionably be better than if it is cropped first and seeded to alfalfa later.

It is well that women do not take their hats with them when they go to the New Jerusalem. The present style would not go between the palm trees without getting knocked out of shape.

TRADE OF THE BEEF RAISER

How Profit May be Made and the Best Interests of All Conserved in the Breeding and Production of Cattle as well as in the Feeding and Finishing of Animals for the Market

THIS paper advocates practical things. It cannot countenance untried theories. It believes that today a condition exists which calls for a revolution in the methods and practices of those who raise the beef cattle of this country. A brief review of present conditions will show a situation which amply justifies the reference which will later be made to a case of practical success in beef cattle raising along lines that must appeal to sensible farmers.

Raising good beef cattle is a trade. It has two branches. One of these branches constitutes the breeding or production of the cattle. The other devotes its energies toward the feeding or finishing of the animals for market. Up to the present time, owing to peculiar conditions, the existence of which is due to the exclusive employment of the so-called range country as a producing field, the two branches have largely been pursued as separate trades. The ranges produced cattle more cheaply than the farmer in the corn belt could raise them. They produced cattle of higher quality than the farmer would himself produce. And, curiously enough, the range cattle raiser bettered the quality of his cattle through the use of bulls of pure breeding that were raised by the farmers themselves—or, rather, by the better class of them who gave their attention to raising pure-bred cattle.

It was, therefore, but a natural division of the work that the farmer, having plenty of cheap corn, should buy the cheap cattle, feed his corn and sell the finished product. But with the constant improvement in cattle there kept pace an equally constant increase in price, so that the competition for them between the farmers with the corn often pushed the price to an unprofitably high figure. The West is full of farmers who have paid the penalty for buying feeders at high prices.

A new condition has now arisen which must force the farmer to become a breeder as well, or to give up the matter of beef production entirely. The land hunger of the people has brought about the utilization, for general farming purposes, of millions of acres of lands that have heretofore been devoted exclusively to cattle raising. The great plains on the eastern slope of the Rocky mountains that have in the past been the breeding grounds of millions of cattle, are now devoted to general lines of agriculture. Now feeding cattle must be obtained elsewhere. Another influence which has operated to the reduction of the numbers of feeding cattle has been a general tendency of farmers to take up the dairy industry. Dairying, however, is not an occupation to which the average farmer will turn readily. In fact, few farmers possess the special qualifications and adaptation of the dairyman. Statistics covering the



AN INDIVIDUAL.
(Photo by our Staff Artist.)

subject of cattle production and beef consumption indicate that there is an alarmingly widening gap between supply and demand. It would be well for farmers to give this subject consideration with the object of determining upon the best

Johnston Brothers, of Brooklyn, Iowa. As their operations have been uniformly successful and illustrate a method that to our mind should be more generally followed, we go somewhat into detail in the setting forth of their plans.

To begin with, they were tenants, and it cannot, therefore, be said that the conditions under which they labored were especially favorable. They were, perhaps, favored in that they had greater persistence in the working out of their plans than is usual.

The Johnstons were general farmers, paying particular attention to a breed of pure-bred hogs. There were three of them, living together. They wished to widen the field of their labors, and raising beef cattle seemed to offer an inviting field.

They selected Aberdeen Angus cattle. The reason for the choice of this breed has nothing to do with the arguments of this article. A fact that is important is that they began with cattle of pure breeding, and have made purity of blood a requirement in their operations. They began modestly less than ten years ago by the purchase of a single recorded cow. Thirteen of the female descendants of this cow are now on the farm, and half a dozen steers in the yards trace to her. Later, a few additional breeding cows were purchased, but always pure-bred and recorded animals. From the start, bulls of pure breeding were used, so that every calf dropped on the place was eligible to record as a pure bred.

While the foundation cow belonged to a family that had produced some of the greatest prize winners of the breed, selections were made solely with reference to an ideal beef form. Aside from the fact that an animal must be eligible to record, the matter of pedigree received no consideration. Prospective beef-making quality was the lone requirement. As a result of the care taken the herd ranks right up with the average herd of the country which is maintained for the sale of breeding cattle. All the males are sent to the feed

lots, as well as all females that fail to approach a high standard. The herd has been conducted solely for the purpose of producing beef cattle to be raised and finished on the farm.

The cows are mostly bred to drop calves in the fall. Calves are permitted to run with their dams until weaning time. They are then put upon a merely growing ration of ground corn and oats, with free range of pasture, and at all times access to good clover and timothy hay. This

treatment tends to promote quick growth and the physical development that will fit the animals for rapid fleshing when the real preparation for market is in order. The final finishing for mar-

(Continued on page 12.)



STEERS READY FOR THE FEED LOT. (Photo by our Staff Artist.)

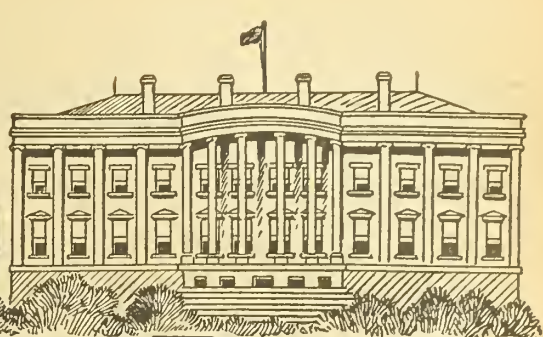
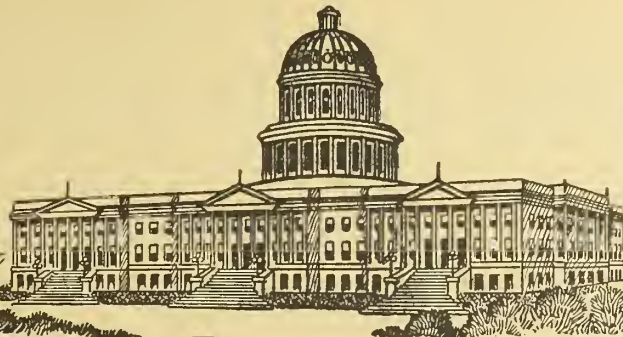
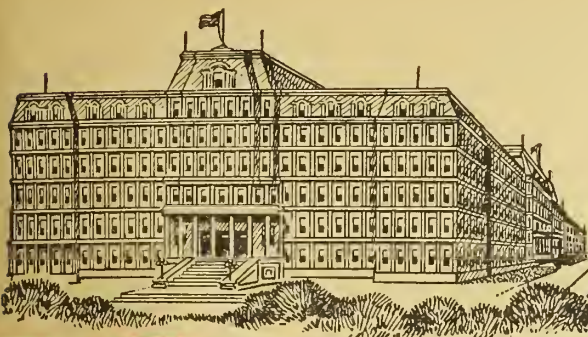
policy to pursue. This paper takes pleasure in directing the attention of its readers to the successes of men of practical turn of mind.

An instance which is to the point on the subject of raising beef cattle, and an example which might easily be followed on any farm, is that of



THE BEEF BREEDING HERD OF JOHNSTON BROS.

(Photo by our Staff Artist.)



King Lightning Rods

Lightning Rods are backed by my \$50,000 guarantee—are identically the same practical and perfect system used by the United States Government on the White House, U. S. Capitol, buildings of the War Department and other Government buildings throughout the country.



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I want someone in every locality where I have no selling arrangement. If you are a country hardware merchant or an implement dealer here is a profitable line that fits in with your business. I also want good farmer agents. If you have sold or rented the farm, don't like your present work, have spare time and want easy, profitable employment, here is a fine opportunity to make money. Line up with me and earn from \$1,000 to \$3,000 for a few month's work. Sit down now and write me. Say how much time you can give me, whether part or all your time and I will send you a proposition that will interest you.

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When Government experts select a lightning rod system, they are exceedingly critical. When YOU select lightning rods YOU should be equally exacting—should select the King system in comparison with all others. When the Government endorses a system of lightning rodding by selecting it, YOU should select the same system. King Lightning Rods never fail.

Experienced building contractors, noted electrical experts, purchasing agents and others knowing perfection in lightning rods, tells me I have the most scientifically perfect rod produced. My \$50,000 guarantee says this must be so.

Twenty thousand farmers and property owners have equipped their buildings with King Lightning Rods and not one has ever had a nickel's damage resulting from lightning.

In competition with other rodding systems, King Lightning Rods have been selected by commissions in charge of public buildings, by school boards and those in charge of church property. They have been judged by the infallible test of comparison—found superior to all others.

I use a copper cable over 99 per cent pure copper, woven from 30 strands of soft copper wire. My cables have been proven of greater conductivity than any other. My uprights are copper, tipped with nickel; my aluminum weather vanes are of special design, very light, absolutely true and beautifully ornamented with gold leaf.

Regardless of what rod you may have in mind or what ideas you may have, I know you will change them when you see my rods. Remember—my rods costs no more than the ordinary rod of no particular reputation or efficiency. You have but one outlay, the first cost of my rods and no repairs or renewals, as they are indestructible. My rods have saved more human life and property than I could undertake to estimate. If your home and buildings are protected by King Rods there is no cause for worry or dread of thunder storms. It cannot harm your family or buildings.

30

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LIGHTNING FACTS FREE

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Per Cent Pure Copper in King Rods

Here Is More Proof That King Rods Are Best!



Nearly everyone who reads the farm papers knows me. Some may not—may want more than my word to "go" on. The following letters testify to my reliability and the excellence of my lightning. As I have repeatedly said—my \$50,000 guarantee and years of experience are your guarantee of perfection in my rods.

Letter from the Capital City State Bank, Des Moines, Ia.
CAPITAL CITY STATE BANK
DES MOINES, IOWA.

June 29, 1909.

To Whom It May Concern:

The Geo. M. King Manufacturing Co., manufacturers of Copper Cable Lightning Rods in this city have been known to us for several years and it is a pleasure to recommend them to the public as men of integrity and reliability entirely worthy of the confidence of anyone.

We commend them without reservation to all who may have business with them. Respt'y, D. L. VAN LIEW, Cash.

The Following is Copied from a Letter Received from John Kallenback, Calamus, Iowa, Under Date of Aug. 2, 1909

"Mr. King: The School Directors where I rodged the school houses have had your cable tested by Thomas J. Dee & Co., Chicago, Ill., Gold and Silver Refiners and Assayers and it showed 99.77 per cent copper. I have the certificate in my possession, can you make use of the test? The sample was cut from a grounding without my knowledge."

Aberdeen, South Dakota, November 29, 1909.

I hereby certify and represent, that I have sold and erected in the vicinity of Aberdeen, South Dakota, during the season of 1909, 25,000 feet of the Geo. M. King Pure Copper Cable Lightning Rod, covering 176 buildings. Total sales amounting to \$6,032.00.

J. K. WILLIAMS, Aberdeen, South Dakota.

Signed, sealed and certified to, in the presence of
(SEAL) S. G. HEDGER, Notary Public.

Ask Your Dealer

to show you King Lightning Rods, the most modern, highly perfected rod in existence. If he has your interests at heart—really wishes to give you the best rod made, he will give you my rods. That you may be sure you are getting the genuine King Lightning Rod, he will show you his Dealer's Certificate that insures you against imitations. Should your dealer have no King Rods and will not order for you, write me at once. I will tell you where you can get them promptly. Address

Geo. M. King, President,
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701 E. Walnut St., Des Moines, Iowa.





"One Man" Hay Loader

Time is money. Unnecessary help in the field is waste. You know the cost. Protect yourself. Use the Dain—the one man hay loader that cleans up the hay as it goes along—goes along anywhere and runs easier than any other hay loader.

Built by Specialists. The services of this machine are as much more valuable to you as the work of the expert mow. It is more valuable than the jack-of-all-trades. It's built on scientific principles that insure longest service, greatest efficiency and real satisfaction. It loads all the hay. Each revolution of rake overlaps the one preceding. Ground thus practically raked twice. Elevates hay gently without damage, and delivers onto front of wagon where it can be handled by driver alone, who can uncouple loader without getting off load. No return carrier to drag hay off wagon. No ropes to rot—goes to work—just simplicity and a quality of workmanship attained in no other machine.



DAIN Exclusive Features

Nine gathering rakes, each independent. Can be set any distance from ground. Hinged board to turn up for windrow. Wheels set under machine so it will go through gate or close to fence. No crank shaft to get out of order; operated by swinging pitmans; hammock mounted, hinged tongue; easy to couple to all wagons without adjustment.

If you grow hay, you should look up this Great Dain Loader. It saves more money—makes top priced hay. There are many other reasons why the "One Man" Dain is the best. See it at your dealer's, or send for information and free valuable book "All About Hay."

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Heider Eveners

A Great Invention

Made for 2, 3, 4, 5 or 6 horses. The HEIDER 4-horse Plow Eveners works four horses abreast on gang, sulky or disc plow.

one horse in furrow, three on land. Works free, no side draft, all horses pull equal. We make clevises to attach our Eveners to all plows. HEIDER 3-horse Wagon Eveners for wagon, manure spreader, grain drill or any other implement with pole. **GO TO YOUR DEALER**, if he can't supply you don't accept any other. Write us for catalog and we will tell you where to get them. We also make Wagon Doubletrees, Singletrees, Neck Yokes, etc. Insist on getting HEIDER'S if you want the best in EVENERS.

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ASK YOUR DEALER



SEE That Slot THAT'S WHY

FENN'S ADJUSTABLE POST HOLE AUGER

Digs different size holes—digs faster—meets any soil condition. It has no castings to break—no rivets to work loose. Warranted to do better work than any other or money refunded. Write for prices, etc. The Fenn Manufacturing Co. Box 12 Charlotte, Mich.

DIGS FULL SIZE HOLE ALL WAY DOWN



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FIVE YEAR BOND GUARANTEE We build all sizes in stationary or portable type. Hopper jacket or water tank cooling. Inducements to introduce in new localities. Write stating size wanted.

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FARM FURROWS

Turned By a Practical Farmer

Just when we were beginning to think about getting out the fly nets and putting them into use, the weather made us change our mind. Fly nets are not needed when the snow flies.

When March comes in like a lamb it will go out like a lion is an old saying, but whoever expected it would wait until the latter part of April and then go to roaring like a house afire?

Even if the fruit crop is a failure here this year, it should not prevent anyone from planting an orchard. Other crops have failed some years, but we go ahead and plant the same kind of a crop the next year, even though they occupy fifty times as much ground as a fair-sized orchard does.

After all, it is hen fruit that is the most reliable crop, and it gets too little attention on the majority of farms. The time is coming soon when eggs and poultry will be one of the principal sources of income to those who own small or medium-sized farms.

Nine co-operative creameries in the northern part of Iowa have organized what is called the Northern Iowa Dairy Association. This is not a trust, but the patrons of these creameries joined together and hired an expert dairyman to go among them and teach them better methods of dairying than those in general use. This is entirely a new venture and the results will be watched with interest.

For anyone to claim that they have cows in their herd that will give a "pailful of milk with no other feed than just hay" is to show their ignorance of dairy methods, even though they may tell the truth. A good cow will milk quite well for a while after calving with very little feed, but no one but a fool will imagine she can do this for any length of time without material to make the milk from.

The month of April closed with no rain in this vicinity except a few local showers. While our soil apparently stands a great deal of drouth, some of the fields are beginning to show the effects and a few may be plowed up for corn unless the rains come soon.

We have a good joke on one of our neighbors. He bought an automobile a short time ago and was getting along famously in learning to drive it. One night when he came home he drove it into the barn, and instead of stopping it in the right place he yelled, "Whoa" and failed to turn off the juice. It went right on through the other side of the barn, while they say that all the time that it was breaking its way out you could hear him for a mile yelling, "Whoa, whoa."

Some years ago I had a field of corn up three inches high and cultivated. One night came a frost and killed it to the ground. Another field of like height, but not cultivated, was barely touched. Cultivation brought more moisture to the surface, with a harder freezing as the result. The frozen corn came on again all right.

Frost is peculiar. A certain degree of cold will kill under one condition and will not under another. A neighbor once had corn killed entirely, with the thermometer registering no lower than it has when only the tips were frosted. Frost damage also goes in waves or streaks.

There is something in suiting the corn to the soil. Trying to suit the soil to the corn is a tough proposition, as many a man who has tried corn adapted to bottom soil on thinner upland has found to his sorrow. I find it does not pay to crowd in a corn a little too big for the soil.

Driving a tired horse to town after supper is one way to make a young horse old. They get old quick enough without the abuse of too much work.

Hundreds of clover fields that should have been good for another

season failed to live through the winter. This calls for more corn. I do not recall a year when the corn acreage has been greater around me. By what I read it is the same pretty much all over the corn belt. Perhaps the 1910 crop will hold some of the wind-tossed cribs down. Furrows has one he would like to see filled to the roof again.

Anything that stops a gap in the fence is called a gate. A great many are not worthy the name. Years ago, when I thought nothing better could be afforded, there were several wire gates on this farm. I still have wire gates, but they are of woven wire on a frame, quite different from three or four barb wires tied together in the middle and often loose at both ends.

The other day I had conversation with a dairyman who talked glibly of cows having "advanced records." Few cows are capable of making an advanced record and, in proportion to the number engaged in the business, there are mighty few farmers who have made an advanced record in their line of production.

Many a man who is capable of driving a good bargain isn't competent to drive a good team.

The roadside has an attraction for some cattle, while they have no respect for the fence that is supposed to keep them from roaming. There is only one thing worse in the bovine race than the fence-creeper, and that is the self-sucker. The block is the place for both.

Another thing: After the census enumerators have finished their work on farm statistics, will we be any wiser? A friend says the stupendous total will astound the nation, and prices will lower accordingly.

In times of high-priced pork not so much is said about the profitable bacon hog, for it is then that weight counts. I have an old sow and a stag that will bring close to \$100. Fifty dollars apiece is more than any bacon hog would bring for packing purposes, no matter how finely streaked with lean. Nowadays the man who has lean hogs has a lean pocketbook.

For some years I have been watching the work done by those four-horse graders, and have come to the conclusion that they are all right and they are not all right. After a grade has been made, they are all right to keep it up, but they are not grade makers from the start to the finish. It takes a grader of weight to make a smooth cut and, of course, weight calls for horsepower or some other power that equals at least eight good horses.

For some time I have been trying to keep a box culvert in at a crossing into one of my fields, the box bridging the usual roadside ditch. Hauling spreader loads of manure over it and thrashing engines going over it soon put it out of repair. It is now out entirely and will remain out until I can put in something more substantial than a box. It will be a small concrete arch when I get the time.

Who doesn't like to see a good, clean game of baseball? It is the great American game and the country town does well to encourage ball playing on Saturday afternoon. It brings the people in to watch the game, encouraging a class that is often too hide-bound with work to take a little rest and recreation at the week end. I must confess that I still have a great hankering after ball games.

Whenever I read where a man has written it "seeding corn," I know then and there that man knows nothing about farming. Did you ever hear a farmer say he was going out to seed corn? We seed oats and seed wheat, but we plant corn.

The other day I saw an old farmer who retired to town on the 1st of March. He came in the lumber yard

where I was after lumber, and acted as if the team, the wagon and the work looked good to him. I'll wager a keg of nails he wished himself in my place when I drove out of town.

The man who harrowed behind the plow any time the last month did not harrow in sorrow. He has been glad he did it ever since.

This has also been one of those springs when disking the stalk field for small grain was better than plowing it. I plowed a corner where the stalk growth was extra heavy, and the drouth is hitting harder there.

It is early yet, and rains may fall in torrents soon, but if the tame grass doesn't get soaked from blade to root soon, tame hay will be on the scarce list next winter. This will call for more corn to be put in the shock.

It has been discovered that a Kansas congressman has been padding the mails during the time when mails were being weighed to contract with the railroads for the next four years, by sending several thousand pounds of the 1908 year book of the department of agriculture to his constituents. Possibly that congressman is a "victim of circumstances," but how about the farmer who already has three 1908 year books from the same source?

The man who stuck to his underclothes until long after his underclothes stuck to him, was again lucky this spring. I was among the large number who "put them back on."

The latest in cultivators are those steered with foot pedals, after the style of the pedals on two-row cultivators. I can speak from experience that the pedals on the two-row machines are a marvel of ease, and see no reason why they shouldn't be the same on the one-rows.

It always turns out this way—no sooner does a man get a machine that seems to be the height of perfection than out comes another with improved features that seem to make the other ten years old. There comes a time when a man must buy, however sorry he is soon after.

Halley's comet will soon be due to shine in all its brilliancy. Then if it rains excessively or does not rain at all, we can lay the blame on Halley's comet.

Children Especially Like

The sweet, "toastie" flavour of

Post Toasties

Crisp, fluffy bits of perfectly ripe white corn—cooked, rolled and then toasted to an appetizing brown.

Served with cream and sometimes fruit, this dainty food pleases the whole family.

Give the home-folks a treat.

"The Memory Lingers" Packages 10c and 15c.

POSTUM CEREAL COMPANY, Ltd. Battle Creek, Mich.

CURRENT EVENTS

POLITICAL interest during the week centered on the story published by a Washington newspaper to the effect that Colonel Roosevelt had written to President Taft, Nicholas Longworth, of Ohio, and Senator Lodge, of Massachusetts, heartily endorsing the Taft administration and declaring that he (Roosevelt) was not and would not be a candidate for any office on his return to this country, also stating that his preference for governor of New York was William Loeb, Jr., his former private secretary. The latter occasioned considerable stir, but the following day President Taft denied that he had received any such communication. The Washington paper persisted in reiterating that such letters had been received both by President Taft and others. Roosevelt has repeatedly stated that he will give out no political interviews until after his return home. It is highly probable that the ex-president has written letters of the nature claimed, for that he stands sponsor for President Taft's administration few will deny. Even after his conference with Gifford Pinchot in Naples some weeks ago there has been no intimation from Roosevelt that he was not as favorable to Taft and not as firmly convinced that Taft was carrying out the Roosevelt policies as he ever was.

CHARLES A. WHITE, a democratic member of the Illinois legislature, makes the serious allegation that he was paid \$1,000 to vote for William Lorimer for the United States senate. Mr. White has made an affidavit and has divulged what he claims to be the full and exact facts in the case. The matter has been laid before a grand jury for complete investigation. It was thought for a time that Governor Deneen would call a special session of the legislature, but the governor states that he will await the action of the courts. It will be recalled that the Illinois legislature was in deadlock for several weeks during its recent session, and that finally Mr. Lorimer was victorious in winning the senatorial toga. Mr. White now alleges that not only himself, but several other members were induced to vote for Lorimer by means of bribes. The affair calls for complete and immediate investigation, which will doubtless be done, notwithstanding the desire of certain politicians to have it hushed up. The affair seems to be another argument in favor of direct primary choice of United States senators, a matter which is occupying considerable attention all over the country these days.

THEODORE ROOSEVELT continues his triumphal journey through Europe. During the past week he has been entertained, with royal honors, in Belgium, Holland, Denmark, Norway and Sweden. In every country which he has visited he has been received by the reigning monarchs and been made the guest of honor at state functions. Everywhere along the line of his travels he has been acclaimed by the people as the apostle of peace and the embodiment of the rights of personal liberty. Colonel Roosevelt is enjoying the trip hugely, as well he may. He is being given exceptional opportunities to become personally acquainted with the elect of Europe, to see places of historic interest and to study the people, both high and low. He is being showered with presents, so that by this time his personal baggage must be both heavy and valuable. The ex-president is said to be looking forward with the greatest interest to his visits to Germany and England. He has long been an admirer of Kaiser Wilhelm, whom he resembles in traits of character in many respects. The Kaiser reciprocates and is planning to receive and house him in a markedly friendly manner. In the meantime the enthusiasts at home are declar-

ing that a Roosevelt nomination for the presidency in 1912 is inevitable. Colonel Roosevelt has declined to make any public comment on political affairs and is proceeding through rival countries with a tact which is splendid.

PRESIDENT TAFT made a trip as far west as Chicago during the past week and delivered a number of addresses dealing with the vital problems of the day. He took occasion on his appearance in Pittsburg to congratulate Secretary of State Knox on the splendid services which he is rendering the country. The president said: "As the law officer of the government who conducted to a successful issue the greatest of the cases in which the meaning and limitations of the anti-trust act were considered, and who by his successful advocacy called a halt upon the movement which threatened a merger of all the railroads in the hands of one syndicate, he took his place among the statesmen of the country; and, while respecting the rights of capital and the great advantage of its efficient organization, was alive to the danger to the public weal which lies in the suppression of healthful competition and in the abuse of the privilege of organization to secure private monopoly and excessive profit." Pittsburg is Secretary Knox's home city and he is exceedingly popular there. The president added to his already large number of friends by the frank and hearty manner in which he gave Knox credit for a number of the principal happenings of the present administration. The president stated that never before in the history of the country have our relations with South American and Central American republics been more friendly than they are today. This is an exceedingly desirable state of affairs, as commercial relations between North and South America are becoming more profitable and varied every year.

THE tariff commission is occupying considerable attention these days. The house is said to be favorable to the establishment of a commission such as desired by President Taft, and Washington correspondents are beginning to think that the senate will probably be driven to provide for the commission. It is said that the commission will be given ample powers to make investigations, especially as to the difference between the cost of production at home and abroad, and to report the facts to congress for such use as that body may deem fit. President Taft is heartily in favor of the plan, believing that better results can be secured by having a small body of experts spend their entire time delving into this diffuse matter rather than to leave it to congress to take up in its spare moments or at the expense of other matters calling for early attention. It is argued that a bill providing for a tariff commission will simplify the congressional election in many districts where the sentiment of the majority of the electors is in favor of a revision of the tariff.

MAYOR GAYNOR, of New York, made a severe attack on William R. Hearst at the annual dinner of the newspaper men of the country in New York a few evenings ago. Mayor Gaynor had been invited to speak on the subject, "The Press and Its Relations to Public Officials." He had been promised immunity for saying anything that he pleased, as the editors desired to see themselves as others see them. The mayor complimented the press as a whole, but quickly launched into an attack on Mr. Hearst, who was his opponent for the mayoralty in the recent campaign. Gaynor accused Hearst of having forged and falsified public documents in order to hold him up to ridicule and contumely. He charged that the Hearst newspapers reproduced a city

TEASING!

Mother, may I have some more?

When the children tease for Kellogg's Toasted Corn Flakes it is because its delicious flavor is teasing and tempting their appetites. As it is the most wholesome food known—made from the best white corn only—they should have all they want. Your only precaution being to insist upon the genuine bearing this signature—

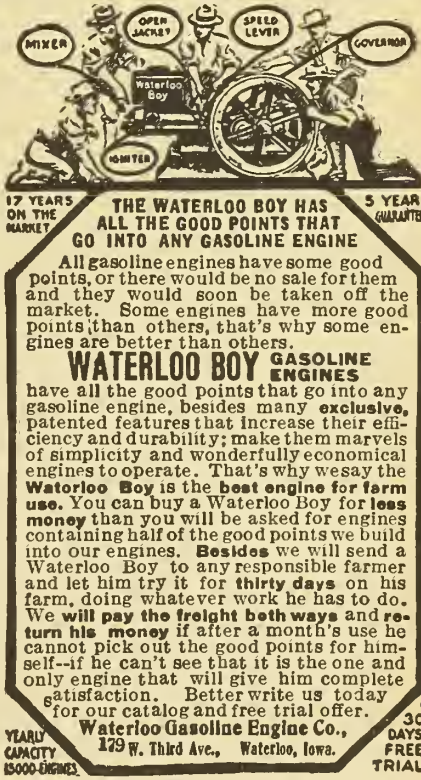


warrant, claiming that it had been issued during Gaynor's administration, but omitting the date of the warrant. The mayor showed that the warrant had been issued prior to his coming into office and charged that Hearst had purposely omitted the date. Mayor Gaynor admitted that the sins of omission and commission of such men as Hearst should not be held up against the press as a whole. He declared that regardless of political and factional differences the press, when the election is over, has a wholesome wish to see that the one who is elected gives good government and to help him do so. Such men as Hearst, he alleged, are exceptions to this rule.

JOHN W. KERN has been endorsed by Indiana democrats, in state convention assembled, for the United States senate. His principal rival for the senatorial toga is Thomas Taggart, former chairman of the democratic national committee. Mr. Taggart made a strenuous fight to have the state convention withhold endorsing any senatorial candidate, but the opposition won by a vote of 888½ to 885½. When it was seen that Mr. Kern was in the lead, Taggart withdrew his name, declaring that the state wanted Kern in the senate and that there should be no opposition. The Indiana legislature meets next year and it is thought certain that the state convention's action will have much influence on it. Mr. Kern was candidate for vice-president on the ticket with Bryan in 1908.

AT THE age of seventy-two years Edward P. Weston has completed a walk from Los Angeles to New York, a distance of 3,483 miles, in seventy-seven walking days, a feat without parallel in the annals of pedestrianism. It will be recalled that Mr. Weston failed in his attempt to walk from the Atlantic to the Pacific Ocean in a certain number of days, due altogether to the bad storms and the poor track encountered in the far West. His failure determined him to try again and this time he succeeded. His sole recompense is the notoriety attained and a purse of \$400 presented to him by Mayor Gaynor, of New York, and raised by a handful of his admirers in the last hours preceding his arrival. Mr. Weston has refused numerous offers to appear in vaudeville theaters and to advertise various articles of wearing apparel.

The farmer who must haul water hasn't a bed of all thorns; if so dry his water supply is exhausted he is sure of good roads over which to haul it.



THE WATERLOO BOY HAS ALL THE GOOD POINTS THAT GO INTO ANY GASOLINE ENGINE

All gasoline engines have some good points, or there would be no sale for them and they would soon be taken off the market. Some engines have more good points than others, that's why some engines are better than others.

WATERLOO BOY GASOLINE ENGINES

have all the good points that go into any gasoline engine, besides many exclusive, patented features that increase their efficiency and durability; make them marvels of simplicity and wonderfully economical engines to operate. That's why we say the Waterloo Boy is the best engine for farm use. You can buy a Waterloo Boy for less money than you will be asked for engines containing half of the good points we build into our engines. Besides we will send a Waterloo Boy to any responsible farmer and let him try it for thirty days on his farm, doing whatever work he has to do. We will pay the freight both ways and return his money if after a month's use he cannot pick out the good points for himself—if he can't see that it is the one and only engine that will give him complete satisfaction. Better write us today for our catalog and free trial offer.

Waterloo Gasoline Engine Co., 129 W. Third Ave., Waterloo, Iowa.

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Here's a tool that cuts quickly through the hardest ground, and you can set it to bore nine sizes of holes.

Standard Post-Hole AUGER

—does better and faster work than any similar device, and you cannot afford to be without one if you set posts—plant trees—dig wells—build fences or bore in the earth for any purpose. Get Catalog Free.

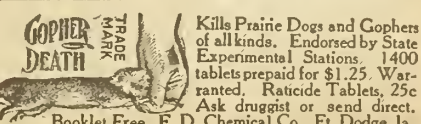
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Indispensable on every farm; saves the time and money you would spend on a public scale, and assures perfect accuracy always. Priced within your reach; good for a lifetime. Osgood Scale Co., Box 103 Binghamton, N. Y.

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Kills Prairie Dogs and Gophers of all kinds. Endorsed by State Experimental Stations. 1400 tablets prepaid for \$1.25. Warranted. Rat-killer Tablets, 25c. Ask druggist or send direct. Booklet Free. F. D. Chemical Co., Ft. Dodge, Ia.

HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

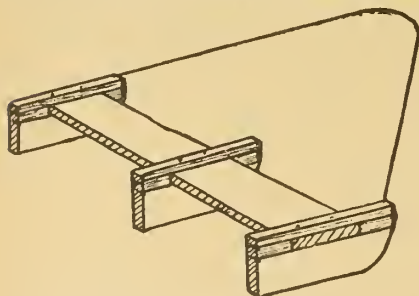
A SEED POTATO CUTTER.

The labor of cutting seed potatoes may be lessened with the handy and rapid device shown in the illustration.

A board is used that is about twelve inches wide and four or five feet long; this is placed upon two chairs or boxes and so furnishes a seat for the operator as well as space for the potatoes cut, beneath same. From the center of this board a hole is cut six inches square and from this on each side, in the center, slots or saw kerfs are cut about one inch deep; two knives are prepared from an old saw blade so they will set into these slots and with the blades of knives crossing in the center, which is arranged by cutting half-way into each blade, a slot for the other to set into; a plunger is made by attaching a handle to a small block of wood, as illustrated, and the device is complete. The potato is placed upon the knives in the center with one hand and the plunger or block of wood brought down upon same with the other, thus cutting it into quarters in a fraction of the time required by the usual method. More knives may be used so as to cut into six or eight pieces if desired.

A Handy Garden Marker.

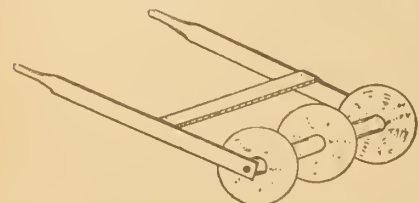
In marking ground in gardens, orchards and other fields where a horse is impractical, the sled marker shown in the illustration will be of value. The runners are made with a rounded point as for a sled and upon same at each end two blocks are nailed with a space between them, so the



connecting bar or board will just slide in between these blocks, as shown in illustration. Upon these blocks a strip is nailed, which is as long as the runner; through this two screws are placed to go into the connecting board and thus hold the runners at any space apart you may wish, and also permit the easy and quick adjustment of the runners to any width desired. The connecting board can also be ruled off into the different width of rows desired so as to make the adjustment of runners easier. This with a cord to draw it with completes a very handy marker.

An Easily Operated Hand Cultivator.

In the small space of the garden the horse is often a damage, as the frequent turning around and usual trampling of the plants is more loss and labor than to cultivate the ground with a hand cultivator. The disk cultivator shown in illustration is very easy to work and can be constructed at a slight expense, as the concave



disk blades can be purchased at the average hardware store and the framework of the cultivator, or wheel hoe, is made of two handles joined together with a brace strip between same and an iron rod fitted with threads and a nut at each end to go through the handles and through each disk. The disk blades are held apart

at the distance desired by blocks of wood, through which you have bored a hole the size of the connecting rod upon which it is placed, thus holding each blade apart and permitting them to turn easily. The simple motion of shoving or wheeling the cultivator ahead, as with a wheelbarrow, cuts up the soil in a very effective manner and is of great value on heavy soils where it is hard to work the usual hand plow or cultivator.

A Harrow Truck.

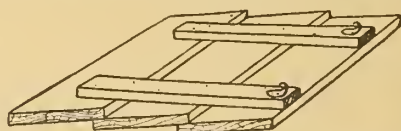
As a rule, harrow trucks are attached behind the drag or harrow. This method of attachment does not allow the natural play of the harrow beams. Mr. Thomas C. Tobin, of La-



fayette county, Wis., has invented a truck which is attached ahead of the harrow, as may be seen by the accompanying illustration. The Tobin truck is for two, three or four horses and a two or three-section harrow. The pole or tongue may be shifted for a three-horse team in a very few minutes and without the aid of a wrench.

An Easily-Built Clod Crusher.

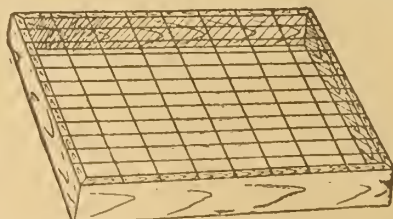
Upon heavy soils where there are many lumps or clods, this will be found of use, as it is more effective than the usual roller which presses the clod into the ground, but does not crush it, while the drag or boat shown in the illustration will work wonders in a field where there are many clay



lumps or clods. Heavy planks are nailed together in the manner shown in drawing with the edges lapped over each other, and to the top of these two strips are bolted to hold it rigidly together. At the end of these strips two hooks are placed to which a chain can be attached for hitching the team to. The top is further weighted with rocks if needed. This also does very effective work as a substitute for a roller upon any soil.

Screened Frame.

Where one wishes to start young plants, and it is not convenient to have the beds protected from rabbits and poultry by fencing, screened frames are very handy. The frame is made from 1x6 inch stuff, the size



one wishes, and covered with common fencing or window screen. After the beds are prepared and planted, the frames are set right down over them.

High price of beef and mutton has led butchers on the East Side, New York, to offer goat meat for sale as a substitute. The meat is said to give satisfaction and the price is from five to seven cents a pound lower than asked for mutton.

You Can Make Fence Posts That Last Forever

Why waste time digging post holes, trimming up and setting in wooden posts that burn or rot out in a few years when it takes no more effort, or no more knowledge on your part to make solid, re-enforced concrete fence posts of Chicago "AA" Portland Cement—posts that will last forever—posts that can never rot, burn, or break. This is only one of the almost limitless uses you can find on your farm for

Chicago "AA" Portland Cement

No other building material is so cheap—no other, so absolutely indestructible. Be sure to ask for Chicago "AA" Portland Cement. Its uniformly high quality, fineness, color, composition and purity never varies. Its great sand carrying capacity and ease in working

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Farm buildings, silos, cribs, watering troughs, fence posts, floors, walks, etc., made of Chicago "AA" add permanent value to your property, because they are rat-proof, fire-proof, and repair-proof

Write Today For Our FREE They are brim full of new Concrete Books ideas of unlimited value to every up-to-date farmer.

The directions for making Cement structures are plainly worded—without technicality—so that anyone can understand them—with tables showing the exact amount of material required for any piece of work you may have on hand.

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Rot-
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"WIXCEL"

A SQUARE
DEAL
ALIKE TO ALL

No. 2 Steel Frame Hay Loader

YOU ARE A FARMER

HOW DO WE KNOW? THAT'S EASY—THE FACT THAT THIS AD HAS YOUR ATTENTION PROVES IT.

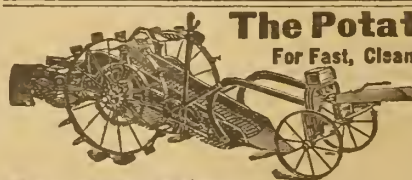


A Ten
Year
Old
Boy
Can
Couple
It to
Wagon

Solid
Steel Frame
Address
Wixcel Manfg. Co., Inc.,
Dept. 1, Marcus, Iowa.

You wouldn't buy an automobile of 1900 model and design. Neither would you buy a hay loader of old design and without the very latest improvements. Therefore, if you are in the market for a hay loader you will want the WIXCEL. It is the most modern and perfectly designed loader on the market. A steel frame, a head-end drive, a four wheel carriage, an automatic hitch, a delivery apron and pick-up rake are some of the advantageous features that are original with us and found only in the WIXCEL LOADER. These features embody durability and strength of construction—lightness in draft—large efficiency in field work—and ease in operation. All of which is fully explained in our HAY LOADER BOOKLET NO. 2 and will be of much interest to you. This booklet will be mailed free to you upon request. WHAT IS YOUR PLEASURE?

Sold Direct From
**FACTORY
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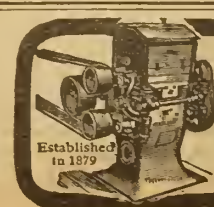


The Potato Digger Dowden

For Fast, Clean Work is the

Simple, strong, always in order. Works in all soils, all depths, hillside and level. No cutting and none missed. Potatoes always clean, lying on top of ground. Works well in heavy tops.

DOWDEN MFG. COMPANY
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Roller Feed Mills

20 DAYS FREE TRIAL The only scientific and up-to-date method of grinding feed. Burr and stone mills have had their day. At present cost of land and labor you can't afford to feed whole grain—one-half of it properly ground by our roller process has equal value. Our mills have great capacity—require little power—last a life-time. Built in 13 sizes to suit any power. Sold on 20 days absolutely free trial. Write for catalog F.2 R. R. HOWELL & CO., Minneapolis, Minn.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

WILLS—UNDUE INFLUENCE.

The law in every state provides for the descent of property to the heirs of the owner at death, in accordance with what seems to be natural right and justice, but it permits persons of competent age and sound mind to make a different disposition of their property by will, except as to the part of it allowed by law to a husband or wife in the way of homestead, dower, curtesy, or distributive share.

When an instrument in the form of a will duly executed and witnessed according to law is presented to the court for probate it is presumed by law to be valid and binding. It may be set aside, however, by proof that the testator was not competent to make it, or that it was made by reason of fraud or undue influence brought to bear upon the testator.

Undue influence, such as will invalidate a will, must be something which destroys the free agency of the testator at the time when the instrument is made, and which in effect, substitutes the will of another for that of the testator. It may be exercised by means of threats, fraud, importunity, or by the silent resistless power which the strong often exercise over the weak and infirm; but however exercised, it must, in order to avoid a will, destroy the free agency of the testator at the time it was made, so that the instrument in fact, expresses the mind and intent of someone else, and not his own. Pressure of whatever character, whether acting on the hopes or the fears of the testator, if so exerted as to overpower his volition, without convincing his judgment, constitutes undue influence, under which a valid will cannot be made. To make a valid will, a man or a woman must be a free agent. It is not influence alone that renders a will invalid, but undue influence.

Motives of almost every conceivable kind may be offered to influence the testator, yet if his mind is free to adopt or reject the motives, and he yields assent, the will is his own act; but if influence goes to the extent of depriving the testator of his free agency, and amounts to moral coercion which he is unable to resist, it will render the will invalid; if the influence does not go to this extent, the will cannot be set aside for undue influence.

A testator's favor expressed in a will, may be won by devoted attachment, self-sacrificing kindness, and ministrations of friendship and love, and such influences are not undue. The natural influence of a parent or guardian over a child, or a husband over a wife, or an attorney over a client, may lawfully be exerted to obtain a will or legacy, so long as the testator thoroughly understands what he is doing, and is a free agent. There is nothing illegal in the parent or husband pressing his claims on a child or wife, and obtaining a recognition of such claims in a legacy, provided such persuasion stops short of coercion, and the volition of the testator, although biased and impressed, is not overborne and subjected to the domination of another.

Importunity or threats, such as the testator has not the courage to resist—moral command asserted and yielded to, for the sake of peace and quiet, or of escaping from distress of mind, or social discomfort—these if carried to an extent by which the free play of the testator's judgment, discretion, or wishes is overborne, will constitute undue influence, although actual force is neither used nor threatened.

Influences to induce the testator to make bequests, may be specific and direct without being undue. It is not unlawful or improper to advise, persuade, solicit, entreat or implore. Hopes and fears, and even prejudices may be appealed to and moved. Ap-

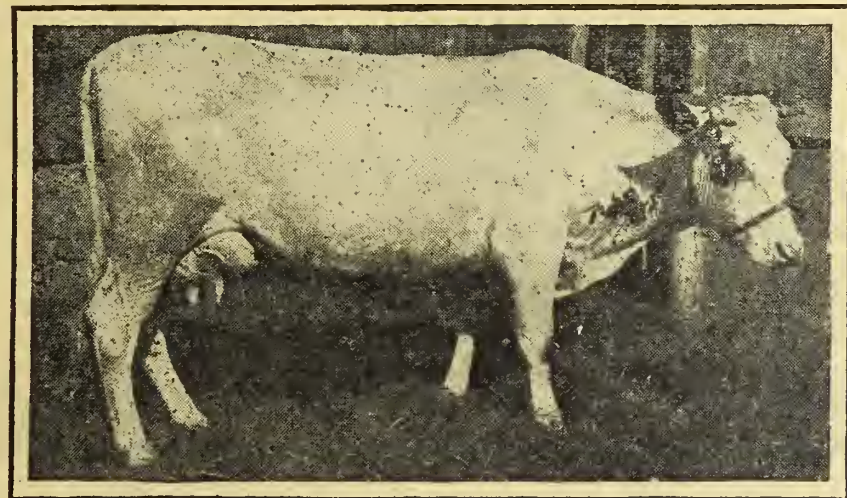
FOUNDING A GREAT HOLSTEIN HERD.

For several years Mr. Clem F. Romadke, Milwaukee's pioneer trunk manufacturer, has been an admirer of the Holstein-Friesian breed. A few weeks ago he decided to stock his farm, which adjoins the Pabst place near Oconomowoc, Wis., with a choice herd of black and white cattle. Among the animals purchased by Mr. Romadke upon which he will found his herd are two



SCHOLTON MADRIGAL DE KOL.

cows—Snowball Colie and Scholton Madrigal De Kol—which have been doing things for Messrs. William Everson & Sons, of Lake Mills, Wis. Snowball Colie is a six-year-old, which was bred by Mr. Amos Cortright, of Weltonville, New York. She made an enviable two-year-old record. Scholton Madrigal De Kol was bred by Mr. Nick Grimm, of Ringle, Wis. She was sired by Prince Bryonia Madrigal and out of Scholton of Valley Mead. The Scholton family has



SNOWBALL COLIE.

proven particularly useful in the Grimm herd and the cow which was purchased by Mr. Romadke has been one of the very best representatives of the family. Two other A. R. cows were purchased by Mr. Romadke from the Everson herd. One was Madison Pearl, a daughter of De Kol 2d's Paul De Kol and Pauline Withop Nephele, an eastern-bred seven-year-old.

peals may be made to vanity and pride—to a sense of justice, or the obligations of duty—to the ties of friendship and affection—to a sentiment of gratitude, and to pity for distress and destitution. A testator's views may be radically changed by such considerations, but so long as he is not overcome, and rendered incapable of acting finally upon his own motives, the will he makes is his will, and not that of another, and it will be upheld and sustained by the courts.

LAW QUESTIONS CONSIDERED.

DAMAGE BY TREE PAINT.

A Subscriber, Mt. Vernon, Iowa.—Last season I bought a can of tree paint from the agent of the manufacturer. It was advertised and recommended as a preventive and cure for fruit tree diseases, and also to keep mice and rabbits from injuring the trees. I applied the paint according to directions to ninety fine young trees, and it killed every one of them to the roots, part of them having life enough in the tops above the paint to put forth a few leaves. The bark where the paint was applied became dry and rotten so that it would peel off, the wood being black to the very heart of the trees. I have called three good witnesses to see the condition of the trees. One of my neighbors has had a similar experience with older and bearing trees, the paint killing all that were treated, while other trees nearby not treated remained in their usual vigor. He claimed damages from the manufacturers of the paint, and wrote them about it, but they replied that the paint was all right when it left them, and he must look to the agent who sold it, for damages. The paint is manufactured in another state. Am I entitled to damages and if so, how should I proceed to recover them?

Answer.—The agent is not personally liable unless he exceeded his powers as agent in making the sale of the paint to you. The manufacturer is liable to you for damages

caused by the paint and you can recover such damages by a suit against him, or the company advertising and recommending the paint as stated. The suit would probably have to be brought where the manufacturer is located, and you would, of course, need a good lawyer to attend to the matter. It would most likely land in the federal court.

ESTATE—PRESUMPTION OF DEATH.

An Iowa Subscriber.—(1) When an

estate in Iowa is to be divided, is the widow of one of the brothers who died without issue entitled to any share in such estate? (2) If one of the sisters and her children have not been heard of for thirty-five years, and are believed to be dead, what legal steps are necessary to make a division of her share in the estate?

Answer.—(1) If said brother was alive at the time of the death of the parent who left the estate, the brother's widow would be entitled to one-half of her deceased husband's share in the estate; but if said brother died before the death of his parent, then the brother's widow would not be entitled to any part of said estate. (2) When a person is absent from his or her usual place of abode for more than seven years, and unheard of, and friends and relatives cannot ascertain the whereabouts of such person by making diligent search and inquiry, the law presumes such person to be dead, and if such facts are proved in court where the division of the estate is to be made, the court will consider the persons so unheard from to be dead, and proceed to distribute the estate to the other heirs.

TILING ACROSS RAILROAD.

A Subscriber, Guthrie county, Iowa.—I own land on both sides of a railroad and want to tile across the railroad right of way with an eight-inch tile, which will be easily worth \$100 to the railroad company, but it wants me to pay for the privilege of crossing its right of way. What is the law of Iowa upon such a matter?

Answer.—If you cannot agree with the railroad company about the matter, you must file with the township clerk an application in writing, setting forth a description of the land in the right of way that you desire to cross with your drain, giving starting point, route terminus, character, size, and depth of the tile drain, etc. The clerk will then fix a time for hearing the matter before the township trustees, and give notice of such hearing to the railroad company. The trustees will, on the day set, consider your application, and the claim of the railroad company for damages, and decide the matter, fixing the amount of damages to be paid the railroad company for the crossing, and also the cost of making such crossing, which the company may do at your expense.

320-ACRE HOMESTEAD.

Mr. C. L. Christy, Ottumwa, Iowa.—What is required in the matter of improving a homestead claim of 320 acres in Wyoming, after filing thereon?

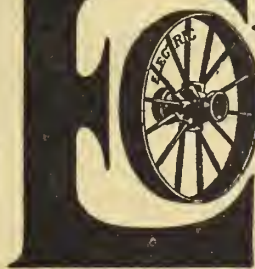
Answer.—In such a case the homesteader, at the time of making his final proof, must, in addition to the making of the usual proofs and affidavits required by law in ordinary homestead cases, prove by two creditable witnesses that at least one-eighth of the area embraced in his entry was continuously cultivated to agricultural crops, other than native grasses, beginning with the second year of his entry; and that at least one-fourth of the area embraced in the entry was so continuously cultivated, beginning with the third year of his entry.

MONEY DUE FOR PASTURAGE.

A Subscriber, Cherry county, Nebraska.—B pastured a number of cattle for A during the summer, for a certain price. In the fall when A took the cattle away there was one missing, and because of this A held back \$20 of the

ELECTRIC Steel Wheels

You Need Them Now



You have a hundred and one hauling jobs before you. All Summer and Fall your wagon will be going. It's not in any too good shape right now and may go to pieces on you in the busy season.

NO DELAYS—We Can Ship You a Set of Electric Steel Wheels to Fit Your Old Wagon—IN A HURRY.

Electric Steel Wheels make you sure of a good wagon—one that won't be breaking down on you. You will not be afraid to put on big loads, and you will find all kinds of farm work so much easier. Low down, easy lifting. Easier for you, easier for the horses.

MAKE YOUR OLD WAGON NEW

Don't think it will take a long time or that it will be a hard job to get wheels to fit. Just leave that to us. Write us and we will tell you just exactly how to measure your axles, what sizes to order, and we will get your solid Electric Steel Wheels back to you in a jiffy. It is a very simple matter. We are doing it every day for hundreds of farmers. It will take only a few days to fix you up with the best wagon you ever had for hay and grain hauling, hauling manure, stone, corn fodder, etc. And we'll do it out of your old wagon. Cost so little it's hardly worth considering. Of course we have the complete Electric Steel Wheeled Handy Wagon for you if you want it—all ready to ship. Don't waste more time. Fill out and send this coupon to-day or write us a postal. You can have your wheels or complete Wagon in just a few days.

ELECTRIC WHEEL COMPANY

Box 58, Quincy, Ill.

SEND US THIS COUPON
Electric Wheel Co., Box 58 Quincy, Ill.

I am interested in finding out how I can get a set of Steel Wheels or a Wagon right away. Send me your book and full information.

Name

Address

"The Hill Climber"



This is the "MAYTAG," Model C, (formerly the Mason.) Has all the power you will ever want for any emergency. A big, roomy, luxurious, 5-passenger at a price that makes it the automobile bargain of the year.

Not Only the Greatest Hill Climber, but Mistake Proof and a Marvel of Economy

THE record of the "MAYTAG" (formerly the Mason) proves it the wonder of all cars for country use. It is the unrivalled car for every use, but we lay special stress on its value in the country because no other car, regardless of price, can approach it in climbing hills or going through mud, snow and sand. Let us send you the facts. Let us prove to you that in the most trying events of the motor world, like a Glidden Tour, a Hill Climbing Contest, an Endurance Run or an Economy Test, the wonderful "MAYTAG" has been victorious over cars costing two, three and even four times as much.

For four years there has been no car in the field that dared to challenge the "MAYTAG'S" title of the greatest hill climber. See the catalog for trophies won. Also study the day-in and day-out record of the "MAYTAG" in the hands of its owners. Reports are in the catalog. And note what owners say about economy of upkeep. The "MAYTAG" is a marvel of economy. No other car delivers so much power for every gallon of gasoline, no other car of equal power is so easy on tires and no other car needs so few repairs of any kind. "MAYTAGS" have been run for several seasons, three and four thousand miles, with practically no expense for repairs. No matter what style of automobile you have in mind, don't make your selection until you know



This shows a "MAYTAG" climbing a rough, sandy hill of over 50% grade at Big Springs, Texas. No other car could ever do it, so it is now called "Mason Hill" (our car was then called the Mason.) This proved so definitely the superiority of our cars that 75 were sold almost immediately in that locality.

The "MAYTAG" (Formerly the Mason)

SIX MODELS—Take Your Choice of Style, Price and Power

"MAYTAG" (formerly the Mason) Models A, B and C each develop 24 to 28 H. P., with speed up to more than 40 miles an hour.

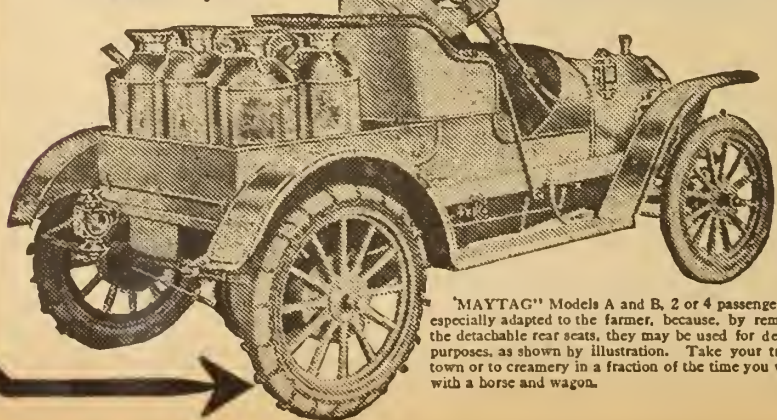
Model A is the Runabout, Model B, Toy Tonneau, Model C, Touring Car. The long wheel-base, the full elliptic springs in rear and half elliptic in front and the even distribution of weight on all the wheels, combine to make these cars the easiest riding automobiles anywhere near their size or class.

"MAYTAG" Models D, E and F are our new, big, luxurious and graceful 35 to 38 H. P. cars. These are the "Big Brothers" to the famous "MAYTAG" (formerly the Mason) Models A, B and C. The "Big Brothers" are handsome, roomy, low-hung cars, up to snuff in appearance with any car made, better in design, materials, workmanship and action than cars of double their price.

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Send us your name and address today. We want to send you, FREE, our hand some catalog illustrating and fully describing the wonderful "MAYTAGS" in detail. We want to tell you where there is a "MAYTAG" dealer nearby so you can see and examine the cars and have their superiority demonstrated by any test. Take your choice of the engine type, your choice of body, your choice of price. No one style can be best for all men. Our "MAYTAG" line is complete. And we offer you a wide range of prices which a little investigation will prove to be the greatest bargain offered in automobiles. Send your name and address today. Take down the address now to remind you.

Maytag-Mason Motor Co.
55 Maytag Station
Waterloo, Ia.



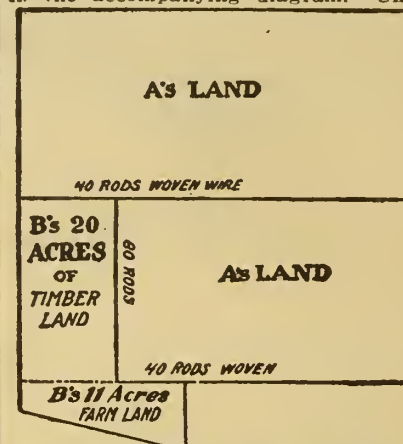
"MAYTAG" Models A and B, 2 or 4 passengers, are especially adapted to the farmer, because, by removing the detachable rear seats, they may be used for delivery purposes, as shown by illustration. Take your trips to town or to creamery in a fraction of the time you would with a horse and wagon.

pasture money. Six months afterwards B found the missing animal and A tendered him the \$20, but B refused it, and claimed \$25 before he would deliver up the animal. B continued to keep said animal for twelve months longer and claims pay for so keeping it. (1) Is B entitled to more than the \$20? (2) Can he recover from A for the expense of keeping the animal after the other animals were taken away from B's pasture? (3) When will B's claim for the money due him be outlawed? (4) What procedure must he take to recover his money?

Answer.—(1) B is not entitled to more than \$20. (2) B cannot recover anything from A for keeping the animal, because as soon as B found it, A offered him all that was due him, and it was then B's duty to turn the animal over to A and receive the \$20. (3) Four years after A tendered the \$20. (4) A suit before a justice of the peace.

PARTITION FENCE—TIMBER LAND.

Subscriber, Linden, Iowa.—A and B own adjoining lands situated as shown in the accompanying diagram. Until



two years ago B used his twenty acres of timber land for pasture. Since then another man's cattle have used it, but B gets no rent or pay for it, but gets rent for the eleven acres of farming land. A has constructed forty rods of woven wire fence on one side and forty rods on another side of his land, as indicated in the diagram. Can A compel B to put a woven wire fence eighty rods long between his timber land and A's land?

Answer.—The law provides that the respective owners of adjoining tracts of land, except timber land not used otherwise than for the timber thereon, from which each derives any revenue or benefit, shall be compelled to erect and maintain partition fences, etc. It seems that B's timber land is not only used for the timber thereon but also for pasture land by B's tenant. Under such circumstances we are of opinion that B can be compelled to build half the partition fence. The law also provides that if one owner constructs his part of a partition fence tight, the adjoining owner is required to do likewise.

TRADE OF THE BEEF RAISER.

(Continued from page 6.)

ket is begun when the cattle are about one year old. The grain ration from that time until shipment is corn and cob meal ground on the place. Salt is always mixed with the feed as a sort of appetizer. No other feed than that produced on the farm is used.

Last year they shipped two loads to Chicago that topped the market for the day, bringing eight cents. These cattle were just past two years old and sold at an average weight of 1,480 pounds each. The year before their shipment did nearly as well, lacking but a few cents of the top price.

The load which brought the top price were put on feed about the middle of February and marketed September 6th. During the time they made an average gain of 500 pounds.

The Messrs. Johnston have no definite plans as to time of selling. They say they "feed until the cattle look good and sell when the market looks right."

Another point which the success of these gentlemen brings out is the superiority of pure-bred cattle over the grade for the special purpose. The beef raiser who aims at the greatest possible profit from his business must use cattle especially adapted to the purpose and perfected to a high degree. The highest degree of success will only be attained through the use of pure-bred cattle. The use of fine stock on the average farm is only the exercise of good judgment. The

manufacturer who produces the best goods uses those materials that are best adapted to the purpose. The farmer must adopt like methods.

AN OUTING FOR STOCKMEN.

The well-known firm of Short-horn breeders, Thomas Johnson & Son, of Columbus, Ohio, desire to announce through the columns of The Homestead that they have decided to give a dinner and outing to the breeders of the country on their farm, six miles west of Columbus, on Saturday, June 11. It is proposed to map out a program that will be instructive and beneficial to all breeders of live stock.

The plan which this firm proposes is not formulated to advertise the Johnson herd, but rather as a means of stimulating interest in improved live stock production. It is hoped that other breeders will in time follow the example set by this leading firm, because such occasions would give stockmen generally a most pleasurable outing, while incidentally it would greatly help the industry.

The Homestead therefore, is pleased indeed to co-operate with the firm at Columbus to make the day a success. Those from a distance who arrive the evening before will be entertained free of charge at the Star Hotel, Columbus, and during the entire stay at Columbus visitors will be the guests of the Johnson firm.

One of the big railroad companies offers forty-five scholarships, each valued at \$100, to be given to the young man over sixteen years of age who grows and exhibits the best ten ears of corn in each county of Missouri, through which the railroad passes. This \$100 will pay the entire expense of a student for the four months' winter course in agriculture at the University of Missouri, beginning November 1st, next. Profitable farming means profitable business for the railroads. Profitable farming means profitable business for the manufacturers. Profitable farming is at the basis of national prosperity.

A New Hampshire farmer of the old type has two grownup sons. One is a preacher of the gospel, while the other is a liquor dealer. A New Yorker, in company with several other friends, was talking at the old man's home about his family. At last one of the company present asked the old man what his sons did for a living. The old man replied: "One is serving the Lord, and the other the devil, and both are doing well."

FAMILY FOOD

Crisp, Toothsome and Requires no Cooking.

A little boy down in N. C. asked his mother to write an account of how Grape-Nuts food had helped their family.

She says Grape-Nuts was first brought to her attention in Charlotte, where she visited.

"While I was there I used the food regularly. I gained about 15 pounds and felt so well that when I returned home I began using Grape-Nuts in the family regularly.

"My little 18-months-old baby shortly after being weaned was very ill with dyspepsia and teething. She was sick nine weeks and we tried everything. She became so emaciated that it was painful to handle her and we thought we were going to lose her. One day a happy thought urged me to try Grape-Nuts soaked in a little warm milk.

"Well, it worked like a charm and she began taking it regularly and improvement set in at once. She is now getting well and round and fat as fast as possible and on Grape-Nuts.

"Sometime ago several of the family were stricken with La Grippe at the same time, and during the worst stages we could not relish anything in the shape of food but Grape-Nuts and oranges, everything else nauseating us.

"We all appreciate what your famous food has done for our family."

Read "The Road to Wellville," found in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

URGES FARMERS TO ORGANIZE



Meeting of the Farmers' Union at St. Louis last Week Important Because Affiliation is Made with the American Federation of Labor--Politics Injected into Meeting by Numerous Speakers



THAT systematic organization and determined co-operation are necessary to promote the material, social and mental welfare of the farmer was emphasized at the meeting of the Farmers' Educational and Co-operative Union of America, at St. Louis last week.

Before the meeting ended the executive committee adopted a resolution in favor of affiliating organized farmers with the American Federation of Labor, pledging the farmers' support to the labor union "to the end that their rights and liberties with our own shall be preserved."

Every meeting of the Farmers' Union (together with the American Society of Equity, which met in conjunction) resolved itself into a plea for organization. Every speaker who touched on the subject was given the most careful attention and invariably was heartily applauded, while the farmers in attendance were broad-minded and frank enough to acknowledge that the efforts to organize and co-operate in the past had failed, mainly because the farmers themselves had failed to live up to their contracts and to keep their agreements. Individual pledges were repeatedly made that hereafter farmers would stand together and abide literally by every contract, both verbal and written. The fact was repeatedly emphasized that the farmer is the only business man in the world who does not set a price upon his productions, but who is compelled to take the price assigned by the purchaser.

To the end that this condition of affairs may be done away with and the farmer take his stand alongside of the manufacturer and all fellow creators it was decided that organization and co-operation must be perfected and maintained all along the line. The affiliation with the labor union was simply the first step in this campaign.

One of the most practical addresses of the convention was delivered by John A. Miller, president of the Missouri State Union, who narrated his experiences in organizing the farmers of his community. He stated that when corn was selling on the St. Louis market at fifty-two cents per bushel, the commission men in his home town offered but forty-three cents per bushel. Mr. Miller believed that if the farmers would co-operate, they could name their own price and materially benefit themselves. To this end, he secured the agreement of half a dozen farmers to withhold from the market 10,000 bushels of corn until the local commission men paid approximately the St. Louis market price. Two days after this agreement was entered into, the commission men raised their offer from forty-three to fifty cents per bushel, within two cents of the St. Louis price, and Mr. Miller and his associates accepted the offer and disposed of their 10,000 bushels at an increase of \$700 for this one instance of the organization.

Mr. Miller confessed, however, that his tentative efforts to better the farmers' condition and to raise the price of corn fell flat because of the farmers withdrawing from their agreement. It had been decided to pool their corn again and 15,000 bushels were put into the pool. Before a price for the entire lot could be arranged, however, several of the farmers who had agreed to stand together individually sold their corn for fifty and one-quarter of a cent per bushel, making an increased profit of only twenty-five cents per every hundred bushels and disarranging the pool and violating their agreement. Mr. Miller admitted that all efforts to organize and co-operate would fail as this plan failed if the farmers would not resolve to stand by their contracts and to sink or swim together.

What has been accomplished by Mr. Miller in this typical instance has been attempted many times over in various sections of the country, but the efforts

toward organization and co-operation heretofore have been spasmodic and unrelated.

It has long been a pet project of Samuel Gompers, president of the American Federation of Labor, to organize the farmers and affiliate this organization with the labor unions of the country. After repeated conferences, he secured the adoption of the following resolution by the executive board of the Farmers' Union:

As far as the constitution and charter of the Farmers' Union permit, we pledge to our fellow workers in industrial pursuits our best efforts to the end that their rights and liberties, with our own, shall be preserved.

Our officers are authorized and directed to confer with the officers of bona fide organized labor organizations to this end.

We pledge ourselves to give preference to the products of the industrial workers who manifest their intelligence to protect themselves by organization and urge reciprocal purchase of products of union farmers.

Our legislative committees are pledged to co-operate with the similar officers and committees of organized labor to secure such relief and reformatory legislation as may be necessary to conserve the rights and freedom to which the workers, as men and citizens, are entitled under the constitution of the United States.

Both Mr. Gompers and the officials of the Farmers' Union deny that this action has any political import or bearing and maintain that it was intended simply to benefit the farmer financially and make him take his deserved stand amongst the other producers of necessities. At the same time, it was apparent to every one in attendance that politics were not far removed from the surface during the entire convention.

Among the matters which were discussed and on which the sentiment of the delegates was quite apparent, were the tariff, conservation of natural resources; postal savings bank, and the parcels post. The Farmers' Union has been discussing and adopting resolutions in favor of the parcels post for the past five years, notwithstanding which they gave respectful attention to W. H. Maxwell, of Washington, D. C., who declared he had studied the subject carefully and had found the Parcels Post utterly impracticable for adoption in America. He disposed of the success of the Parcels Post in England by stating that the hauls there were short because of the small size of the kingdom and said that the longest English haul would be no farther than from Chicago to Des Moines or from Chicago to Pittsburg. He maintained that it would be impractical and unjust to charge the same carrier rates for parcels for transportation from New York to Seattle as for transportation for only a few miles. Mr. Maxwell was applauded at the conclusion of his address, but immediately thereafter an indignant delegate jumped to his feet and moved the adoption of a resolution, declaring that whereas the farmers' union had been discussing and "resolving" in favor of the parcels post for the past five years, "resolved that it changes its mind on a minute's notice and declares in favor of a continuance of the express company trust." The resolution was not put for adoption, as the Union desired to hear both sides of all matters discussed and to have a free and frank discussion on all of the important political problems.

Another political straw was the reception accorded to ex-Governor Joseph W. Folk, of Missouri, who opposed the proposed tariff commission and declared that people of the United States should decide for a tariff for revenue rather than for protection, this latter he claimed being only legalized graft. Governor Folk was heartily applauded, as was also Mr. Maxwell when he admitted that whereas all his life he had been in favor of a high protective tariff he had about come to the point when he was willing to admit the necessity of changing his mind.

President Taft delivered the chief

address of the convention and was greeted by a large crowd. The President took a determined stand for conservation, not only of natural resources but of human life. He urged the establishment of a national bureau of health to combat consumption and cancer as well as other plagues that beset the human race. He stated anew his position that projects provided for in the rivers and harbors bill must prove their feasibility and practicability. Among other things, President Taft said:

You are citizens, and we cannot compel you to do anything without your permission, but we spend now from \$17,000,000 to \$18,000,000 in order to give the farming community of this country the truest information as to how soil should be treated and how the best methods of farming are to be carried out.

If that be the case, it would seem to follow that because of the great resources of the national government, because of her exceptional opportunity to establish bureaus of research and from the information coming from them that will save human life, it will be proper to establish in Washington, as a part of the great national system of conservation, a board of public health, and supply from the national treasury sufficient funds to make these investigations for the benefit of the whole people that no state is likely to go into and assume.

I had the pleasure the other day of visiting a laboratory in the state of New York devoted to the investigation of the awful disease, cancer. A month ago I called attention to the fact that of all the persons over thirty-five, the statistics of England showed that one of every eight women died of cancer, and one of every eleven men. Now that disease has not as yet disclosed to our medical authorities its source or

its means of prevention or its cure, but they are on the track of it.

We have found that in our national fish hatcheries, the disease spreads rapidly among fish and there are other animals with which experiments are being made, tending to show that we are just on the point of discovering that lymph or treatment by inoculation shall make us immune from that awful plague.

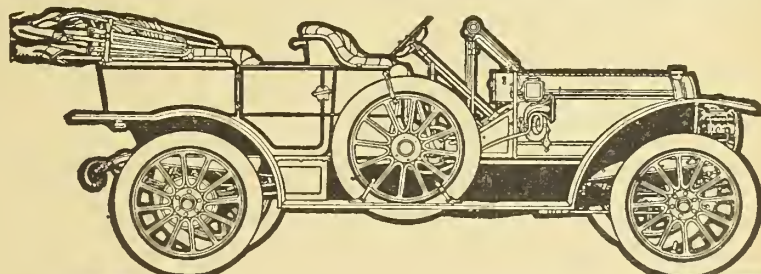
Now, I say with respect to such a matter the government of the United States may well furnish money enough for laboratories and to hire experts wholly along the path to discover what shall bring to man the means of preserving life and saving of so many from the awful suffering of a man who is laboring under the disease of cancer.

Coming to the conservation of agriculture, the secretary of agriculture last night detailed to you the method by which our farmers in the East were lured to the West to the rich farms of the Mississippi valley, and finally have gone on and on and on until they have struck the arid lands of the West, and now there are no lands left for settlement under the homestead and pre-emption laws.

We have an enormous production, but production has not kept up with the population, and the natural laws of supply and demand have so increased the production of the farm that I do not suppose you are meeting here to reduce that.

Well, it depends altogether upon the point of view. If you are selling cattle the high price is a benefit. If you are buying steak it does not exactly occur that way to the man who is purchasing it. Now, as Governor Hadley says, we have to maintain an equilibrium price that will pay good profits to the farmer, and that are as reasonably low as we can expect them to be. Thus, conservation with respect to agriculture includes a great many different branches, upon which, doubtless, Secretary Wilson touched last night.

(Concluded on page 30.)



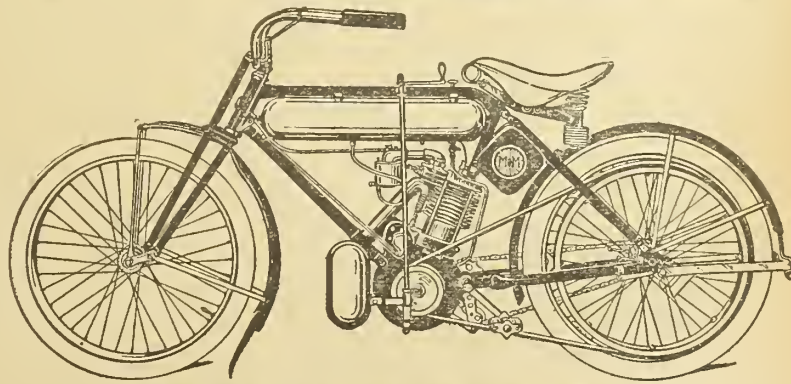
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Write for a copy of the Rambler Magazine.

Thomas B. Jeffery & Company
Kenosha, Wisconsin



M. M. MOTORCYCLES

What does it cost you to hitch up a horse every time you want to go to town?
How long does it take for the trip?

Money saved is money earned, and time wasted cannot be bought at any price.

The M. M., with luggage carrier, carries you and 150 pounds of luggage.

Order one now and let the boy do the errands, at no cost.

A postal card brings our handsome catalog. Get it today.

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That's What The

DE LAVAL Cream Separators

Have Been From the Very Beginning of Separators 32 Years Ago.

Why bother with "copies," "imitations," "substitutes," "just-as-good" and other "near" separators, that merely utilize cheaply the expired DE LAVAL patents and cast-off DE LAVAL types of construction of from ten to twenty and thirty years ago?

There is no other cream separator made that comes WITHIN TEN YEARS of the IMPROVED DE LAVAL of TODAY.

SEE, COMPARE AND TRY

a 1910 DE LAVAL for yourself beside any other separator made and you cannot help so decide.

Any DE LAVAL agent will be glad to help you to do this. It will cost you nothing and may save you a great deal. You have but to ask for the nearest agent's name and address if you don't know it.

The De Laval Separator Co.

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DRUMM & SACRAMENTO STS. SAN FRANCISCO
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Seven Thousand Indiana Silos in use on the finest farms in America. Factories at Anderson, Ind., Des Moines, Iowa, Kansas City, Mo.
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NOTICE—We are the Largest Silo Manufacturers in the World.

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The New 1910 Model U. S. SEPARATOR

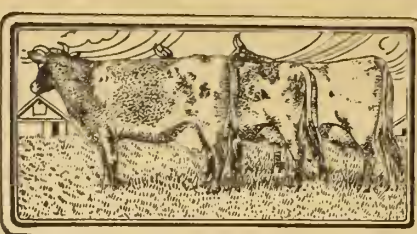
Is emphatically the BEST and the only one for YOU to buy.

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The U. S. defeated all other Separators at Seattle on these five essential points and

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When writing to advertisers please mention this paper.



All communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

PREPARING THE COW FOR HER WORK.

The cows which produce best are usually those which were well prepared for their milking period. Breed and strain or family are important factors, but important and necessary as they both are, neither, in itself, is a guarantee of production. Feed is equally, and possibly more important. This has been so often demonstrated in nearly every community that it scarcely needs repeating. One man may do with somewhat inferior cows what possibly his nearest neighbor cannot, or at least does not, do with superior animals which have come to him with a line of breeding favorably known for its accomplishments.

Many a man, and innocently enough, supposes a dairy cow, to be a good one, should always be thin. To a certain extent we have come rightly by this belief. The commonly accepted standard calls for a cow which has little or no tendency to put on fat even if not at the expense of the pail. Quite naturally we have—many of us—come to discriminate against any cow which seems to be in real good condition, and we seldom stop to consider whether or not she is in milk or just accumulating a good supply of reserve force in readiness to make a tip-top record.

We have in mind a certain heifer which, previous to her first calving time, had a decidedly beefy appearance. One day her owner, while exhibiting his herd to a prospective buyer, was forced to listen to a remark something like this: "You couldn't interest me in that one. I wouldn't give very much for her. She'd do all right for a feeding lot." Now, it happened that this heifer was one of the very best bred animals in the herd and her owner would not willingly have parted with her at any price. She has since developed into one of the choicest dairy cows in his herd, and is promising to spring still more surprises. Her so-called beefy appearance was due only to a good supply of reserve force, which she had stored up against future needs. So far she has proven a most useful member of the herd and we do not anticipate hearing of her suffering any setback. She will likely bear up well under the daily grind.

We do not wish to be understood as desirous of overthrowing the scale of points which so many follow. We realize full well that many cows are disposed to put fat on their frame and little into the milk pail. These are out of place in a dairy barn. There is, however, a difference between the animal which fattens previous to freshening period and the animal which habitually carries a load of fat.

POPULARITY OF BUTTERMILK.

Regular drinkers of "hard" liquor in New York have suddenly discovered that buttermilk is a beverage which gratifies and satisfies but does not inebriate, and have adopted it to such an extent that it takes all of one man's time in the Waldorf-Astoria to carry jars of buttermilk from the cellars to the bar. Fifty quarts is below the daily average consumption of buttermilk at the Hotel Knickerbocker bar. Brown's chophouse has put in a big porcelain churn to keep buttermilk handy for its devotees of the Rialto. Three or four hundred drinks of it is the daily average consumed by the sporting element which frequents the Union Cafe in Broadway and the Bourse and other saloons in the financial district sell more buttermilk than malt liquors.

Philip Kennedy, manager of the Waldorf-Astoria bar, explained the popularity of the homely beverage:

"Buttermilk satisfies the thirst, has an agreeable after effect and does not

make you want another drink, as milk, water and beer do," he said. "Doctors tell everybody that it is the most healthful drink one can take. Men who have an international reputation as consumers of champagne are drinking more buttermilk here than an ordinary farmer's son will consume in a lifetime."

"Fifteen to twenty thousand quarts daily is the average of our sales of buttermilk," said an official of a milk company. "The increase has been enormous. We have had a large, steady demand all the year around for several years from those who drink it under advice of their physicians. When the weather gets particularly hot the demand takes a big jump. We make it from the fresh milk, which is set overnight and carefully kept at a certain temperature. Then the whole liquid goes through a butter making process. Ordinarily buttermilk, such as one gets on farms, is what is left after the cream has been churned and the butter washed and removed. The buttermilk sold in New York is a much higher grade.

"Buttermilk has an excess of lactic bacteria. The other microbes they meet have no chance against them. They are harmless and beneficial in driving out other bacteria of the alimentary system, and give to buttermilk a slightly laxative property which other forms of milk are entirely without. The slightly acid taste, which I believe has much to do with making buttermilk popular with bar-room customers, and which makes it a grateful assuager of thirst, is due to the slight amount of lactic acid in it."

MAKING GOOD COUNTRY BUTTER.

To the Editor of The Homestead:

Much of the butter made in the country is not as good as it might be, and this need not be so, for the process of making a first-class article is very simple. Butter has been made on my farm for many years, and while I will not say that our method is better than that of anyone else, I do say that we produce a product of first quality, for which we never fail to obtain the highest market price. Per-

haps it would be of interest to tell just how we make our butter.

Before the milking begins the sides and udders of the cows are carefully brushed, thus preventing dirt and dust from falling into the milk. The milking is done with clean, dry hands; to milk with wet fingers would be an extremely filthy habit. Just as soon as the milk is drawn from the cow it is strained through a wire gauze and three thicknesses of cheese cloth. All the milk utensils are thoroughly cleaned after being used, by first washing them in lukewarm water, next in hot water, and then they are scalded in boiling water. Every dish or cloth that is used in connection with the milk is put in a clean place, where there is a circulation of pure air, after being used. This is a matter of the utmost importance.

The cream is separated from the milk with a hand separator and held until there is a sufficient quantity to churn. The churning is done three times each week with a barrel churn. In preparing the churn and butterworker for use, they are thoroughly scalded with boiling water before the cream is put into the churn or the butter on the butterworker. A thorough scalding and cooling of the butterworker prevents the butter from sticking to it.

The cream is strained into the churn through a hair sieve and the churn is never filled more than half full of cream. The churn is not turned very rapidly, and is stopped several times at the beginning to remove the

Shoo-Fly THE ANIMALS' FRIEND KILLS EVERY FLY

It strikes when our gravity sprayer is used. Keeps insect pests off animals in pasture longer than any imitation. Used since 1885. Thousands of dairymen duplicate 10 to 50 gallons annually after testing imitations. Absolutely harmless; cures all sores.

30 cents worth saves \$10

worth of milk and flesh on each cow during fly season. No Lice in Poultry House or any place it is sprayed. If dealer offers substitute, send us his name and \$1 for 3-tube gravity sprayer and enough SHOO-FLY to protect 200 cows. Name express office. \$1 returned if animals not protected. Free booklet. Special terms to agents. Shoo-Fly Mfg. Co., 1329 N. 10th St., Phila., Pa. Editor knows from experience that Shoo-Fly is O. K.

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NO LIFTING, NO ADJUSTING OF DOORS. Always in their proper place either open or closed. Safety Ladder. Features found on no other silo. Cuts your feeding cost in half. Pays for itself in a season. Write today for book telling all about it. BUSHNELL TANK WORKS Box 204 BUSHNELL, ILL.

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CARLOAD OF Omega Separators WHILE THEY LAST

No. 1—325-350 capacity.....\$33.00
No. 2—400-450 capacity..... 39.00
No. 3—500-550 capacity..... 43.00

It is the only Cream Separator made which has a positive bearing at both the top and bottom.

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The Western Milker operates on hand-milking principle. Milks to the last drop. Cow is quieter and gives down better than for hand milking. So simple and easy to operate that a boy can easily milk a herd of cows as fast as two men can by hand. Fully warranted and can be entirely depended on. Positively will not injure or dry up cows. Adjustable to any length of teats, to small and large teats on the same cow and to hard and easy milkers. Does cleaner, easier, quicker and better work than by hand. No other machine compares with it. No hand stripping required, as with other machines. All users are completely satisfied.

PRICE, \$12.00—A TRIAL FREE

The price is \$12.00 sold on ten days free trial. We pay all express charges. Prove our claims by using the machine for ten days. If it does not do all we claim, we will take it off your hands, and the trial will not cost you a cent. Write for full particulars to

THE WESTERN MILKING MACHINE CO., 244 N. 3rd St., STEVENS POINT, WIS.

cork, so as to allow the escape of gases. When the cream begins to break, care is exercised not to gather the butter granules into one large lump. The churning ceases when the butter particles are about the size of wheat kernels. Then the churn is fastened and the buttermilk drawn off.

When the buttermilk is well drained from the butter, it is rinsed with a little water, and after this has drained away the cork is put in the churn and cold water added. The cover is then put on the churn and the churn revolved slowly six or eight times; the water is now drawn off and the butter left to drain for about fifteen minutes.

When the butter is well drained it is ready to salt, and this is done in the churn when the butter is in granular form. About one and one-half ounces of salt are used for every pound of butter. This insures the right amount of salt when the butter is finished.

It is a very easy matter to work butter too much and have it greasy. We never work the butter with the hands, because the warmth of the hands will make it greasy and give it a salve appearance. We use the lever worker and press the lever on the surface, and occasionally fold the butter over with a ladle. The lever of the butterworker, or butter paddle, is never allowed to slide over the surface of the butter, but it is pressed straight down when working the butter.

The butter is pressed into square one-pound prints and carefully wrapped with parchment paper, which has been soaked in salt water a few minutes before being used. The butter is sold in our local market, except what is used at home, and practically all the milk is fed to the young stock on the place.

I think that more of our country butter would be better than it is, if more care were exercised in making it. One of the mistakes made by many is in not churning the cream when it has reached the proper stage of ripeness and at the proper temperature.

A proper handling of the milk is most essential. Too often it is drawn from the cow in stables in which the air is filled with dust and put in unclean vessels. Cleanliness in all things and at all times is a feature on which too much stress cannot be laid if first-class butter is desired.

Illinois. W. H. Underwood.

THE OLEO SITUATION AT WASHINGTON.

To the Editor of The Homestead:

The first round in the battle in congress between the oleomargarine forces and those opposed to fraud in the sale and use of butter substitutes was fought before the house agricultural committee, April 20th and 21st. The first day was given over to the proponents of the Burleson bill and its chief advocate was its author, Rep. A. S. Burleson, of the tenth congressional district of Texas. He put several witnesses on the stand in an attempt to prove that oleomargarine is as wholesome, as palatable and as nutritious as butter, the chief one being Dr. H. W. Wiley, of pure food fame. Dr. Wiley made a good witness—for our side. He gave as his opinion that oleomargarine is a wholesome food product, when properly manufactured, but admitted on cross examination that there is a difference in the nutritive value of different oils which might make the two products differ as regards their food value and effect upon the human system. He also made the significant statement, "I like butter, but I don't like oleomargarine," a remark which ought to quiet claims that have been made that the doctor has been using his high office to promote the interests of the oleomargarine manufacturers. He has often been quoted by these people in their campaign against butter, but a candid study of the position he has taken demonstrates that he has been consistent. He is an advocate of uncolored butter and, of course, those who are familiar with what trouble would be experienced in attempting to regulate the sale of butter substitutes in the event that both were put upon the market uncolored, cannot agree with

him there, but he must be given credit for being consistent in his opinion. The uncolored butter fad must have its day.

Other witnesses called by Mr. Burleson proved quite as disappointing to him and it is a conservative statement to say that it was a poor day for the enemy.

April 21st was given over to the opponents of the bill and Hon. G. L. Flanders, president of the National Dairy Union, occupied the whole forenoon session, or rather he was occupied by the other side in their attempts to discredit the facts he had laid before the committee in his opening address. It should be remembered that Mr. Flanders is counsel for the New York Department of Agriculture, as well as assistant commissioner and that he appeared as an attorney at the hearing as well as president of the National Dairy Union. He was in the thick of the fight in 1902 when the present law was enacted, and fought shoulder to shoulder with Governor Hoard, Secretary Knight and others, clear through the campaign. He is, therefore, peculiarly fitted to lead the present fight and it is perhaps needless to add that he came through the first battle with flying colors. The advocates of honest butter can rest assured that they have a leader competent to cope with any of the opposing lawyers which the other side may put forward, and those familiar with legislative hearings fully appreciate the necessity of having good legal talent as well as experts in dairying and dairy chemistry.

In the afternoon the following parties spoke against the bill: A. J. Glover, Fort Atkinson, Wis.; W. F. Schilling, Northfield, Minn.; J. A. Walker, Chicago, Ill.; G. M. Tucker, Albany, N. Y.; ex-Governor Bachelder and W. D. Edson, of Philadelphia.

The time was given over chiefly to a refutation of the claims and alleged arguments advanced the previous day. As an illustration of the decisive manner in which these claims were refuted, attention is called to the answer to the claims of the cotton seed oil interests that this industry is suffering because of the alleged injustice of the present oleomargarine law. According to authentic statistics, the cotton growers of the South received in 1908 the sum of \$499,458.42 from the sale of cotton seed oil used in oleomargarine manufactured that year, or the munificent sum of one and one-half cents per acre. The value of dairy products produced in the eleven principal cotton states during the year was 107 times the value of the cotton seed oil used in the manufacture of oleomargarine for the same year!

In answer to the claims that the present law militates against the poor man, samples of oleomargarine were submitted showing that at the same market uncolored oleomargarine sold for twenty cents a pound while the yellow product, not artificially colored, but yellow because of its selected ingredients, sold for twenty-seven cents a pound. This should demonstrate to anyone except an oleomargarine enthusiast that the color has a greater influence upon the retail price of oleomargarine than anything else, especially in view of the admission made by an oleomargarine manufacturer present, that it is impossible to select ingredients which will give the product a yellow color and still make the best grade of oleomargarine.

The hearings will be continued on April 29th and 30th, and again on May 11th, 12th, 13th, 14th and 16th. The oleomargarine people will continue their case on April 29th and 30th, and on May 11th and the afternoon of May 16th. The rest of the time will be occupied by the opponents of the Burleson bill.

While the present hearings were granted for the announced purpose of considering this bill it is tacitly understood that they will suffice for all the oleomargarine bills before the committee. In addition to the Burleson bill, there are the Gallagher, Goebel, Lever, Bartholdt and McHenry bills under consideration. All of these are in the same class with the Burleson bill except the latter, which is identical with the Penrose bill in the senate and which seeks to amend the present law that it may be made more effective.—(The National Dairy Union, E. K. Slater, Sec.)

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Are You Skimming by Hand?

positively proven at the different experimental stations of our agricultural colleges that a good cream separator will get \$15.00 more cream annually from a cow than you can get by the gravity or hand skimming process. And then, think of the convenience—time saved—disagreeable work avoided—and the fresh, sweet skim milk which can be fed while still warm to your young stock. You can't afford to put this matter off another day. Even if you only have two cows it will pay you in actual dollars and cents to buy a machine. Just think of it, a high-grade, standard Galloway Separator for only \$33.50 or the extra profits you can make from two cows when you consider the time and labor saved worth something.

Perhaps you feel that you can't spare the money just now to buy a separator. But there's a way. Your bank will let you have the money, and even at 7% interest it will only cost you \$2.35 for the use of enough cash to buy a Galloway. At the end of the year you will have made enough in extra profits to pay back the principal and interest and have money besides to place to your credit in the bank.

But please remember that to get these results you must have a good cream separator—a machine that will get all the cream—all the butter-fat from your milk. I personally guarantee the Galloway Cream Separator to be equal in every way to the highest priced machine ever built. It is made better—of better material—skims closer—runs easier—is easier to clean—and will last longer than other machines costing from \$25 to \$40 more. I guarantee my Galloway for twenty years. I give you a free ninety days' trial to find out what it is and what it will do. Test it in any way you please. Put it alongside of any other machine you can find anywhere and if it doesn't prove the best in every way, send it back—it won't cost you a cent for the experiment, and you are to be the sole judge.

Proof!—Read This—Proof!

Wm. Galloway Co.,
Waterloo, Iowa.

Dear Sir: We are only milking four cows at present, but with the small amount of milk we get if we didn't have your separator we would use almost all the butter we make; as it is, we make 10½ pounds extra each week for some of my customers.

Yours truly,
GEO. TENNYSON,
Dudley, Iowa.

NOW FIGURE THIS OUT FOR YOURSELF. Mr. Tennyson gets 10½ extra pounds of butter per week from his four cows since using the Galloway Separator. Figuring butter at a fair price, 30 cents per pound, he has increased his weekly profits from his four cows \$3.15, or \$163.80 a year. Divide this by four—the number of cows he milks—and you have \$40.95, which gives you the amount of extra profits he is making each year from each cow by the use of a Galloway Separator.

Wm. Galloway Co.,
Waterloo, Iowa.

Gentlemen: We have been separating the milk of 14 cows and since we received the Galloway Separator our monthly checks are on an average \$15.00 larger than the old way of hauling our milk to the creamery. So you see it has well paid for itself.

Yours truly,
F. W. BRIARD,
Gaylord, Minn.

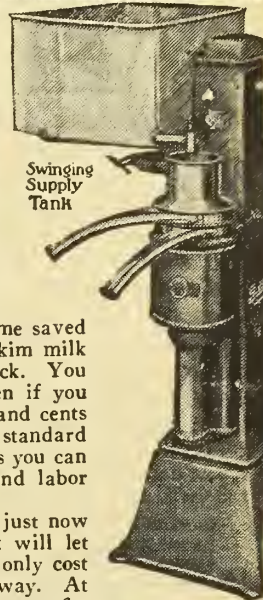
THEN FIGURE THIS ONE AND SEE THE RESULT. Mr. Briard gets \$15 a month more out of his fourteen cows than he did before buying a Galloway Separator. This means an extra cash profit of \$180.00 per year—more than enough to buy three or four Galloway Cream Separators—and then think of the trouble it saves him in not having to haul his milk to and from the creamery every day, to say nothing of the washing of the many crocks and pans.

My New Booklet, "The Proof of the Pudding"

contains hundreds of just such letters as the above—letters fairly bristling with truth and enthusiasm for the Galloway Cream Separator and every one of them written by honest men who are daily operating my machine and know just what they are talking about. This booklet is free and will be sent you, together with my catalog, if you will send me your name and address.

Now, don't put it off. Right now is the time to get these two books and learn from the experience of others how the Galloway compares with the high-priced machines—how much it saves you in first cost—how much it will make for you in extra profits—how little it costs for repairs—how easy it runs—how easy to clean—and lots of other information you will be glad to get if you are interested in a cream separator.

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All Sizes 200 to 1200 lb. Capacity

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YOU NEED THIS HOE



The True Temper Special Hoe

never grows dull. It is made in such a way that you sharpen it by using it. Think what that means in saving of time, labor and expensel



The Welded Blade

shown above is the explanation. A thin plate of very hard tool-steel is welded inseparably to the front and lower half of the mild steel blade. The mild steel wears away in use and leaves the sharp cutting edge of the tool-steel always exposed. As long as you use the hoe, every stroke counts and you never have to use a file.

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Largest Manufacturers of Farm and
Garden Hand Tools in the World
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Which we guarantee 95 per cent of germination. Give you 10 days' trial. If corn does not prove to be as guaranteed, you can ship it back at our expense. \$3 a bushel, new grain sacks included, f. o. b. Peoria. We can make shipment the same day the order arrives. Can send it by express if you so desire. Give us your order before it is all gone. Address
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Dept. 489 NATIONAL SALESMEN'S TRAVELING ASSOCIATION
Chicago, New York, Kansas City, Minneapolis, San Francisco, Atlanta.



THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

DESTROYING POTATO BUGS.

An Oklahoma reader asks about the best way to fight the Colorado potato bug. There are many different methods of fighting this enemy, because most men of experience modify the general method to suit needs, notions or circumstances. But the basis of all successful work against the enemy is the application of poison to the vines.

This bug, especially in the larva stage, is a ravenous eater, and a very little arsenic ends his career. Paris green is the generally used poison, and it is applied either dry or dissolved in water, usually the latter. When used dry it is the custom to mix with two or three times its weight of flour and put on with a blowing spreader. You may get an implement which will dust two rows at once. It should be spread when the vines are damp. In some cases the pure poison has been used, but it is considered a more expensive application than is necessary.

For use in the wet form, put a heaping tablespoonful of the poison into three gallons of water. Mix the poison first in a pint of water until it is thoroughly dissolved. A \$3 pump is a good tool to apply it with. This is simply put into the pail, which is moved as needed. You can reach a circle twenty feet in diameter with the spray. Of course, if you are working upon a large scale, you will want something better than this. A main point is to be sure and get a good article of poison. Get your druggist to guarantee it to you, for so much of it is adulterated that you cannot be too careful.

WATERMELONS.

These are most easily grown in light, sandy soil, which becomes warm quite early in the season. However, fine melons may be grown in almost any garden having a sunny exposure and by giving the plants proper attention.

One of the very best places in which to raise watermelons is a piece of land from which timber has just been cleared, and the soil of a sandy or porous character. The decaying roots in the soil will provide an excellent means of drainage and it is useless to attempt to grow melons on poorly-drained land. The first fruits are always of the finest quality and bring the best prices, and they will ripen much earlier on drained than undrained land. Although the watermelon is a succulent fruit, wet is more damaging to it than drought.

Watermelons delight in loose, friable soil which contains a large amount of humus or decaying vegetable matter, and this is supplied in newly-cleared timber land, but if you have no land of this character the humus can be supplied by applying a liberal quantity of well-rotted manure.

When danger from frost is past and the nights quite warm, prepare hills six to eight feet apart each way by scraping the soil out to a depth of four inches and twelve inches in diameter; fill this level full with finely-rotted manure to which a handful of wood ashes can be added to good effect.

Cover the manure with the soil removed from the hill, making it about four inches in depth, and scatter from ten to fifteen seeds on each hill, covering about one-half inch deep.

If a crust forms on the hill before the plants come up, it should be carefully broken and made fine, disturbing the seed or young plants as little as possible. When the plants are well started and danger from insects is past, thin out to the two best plants to each hill. If insects make their appearance, sprinkle the vines with soot or air-slaked lime, early in the morning while the dew is still on.

Keep the soil around the plants as well as between the hills fine and loose at all times, and continue to cultivate as long as it can be done

without injury to the vines. To the inexperienced it is rather difficult to tell when watermelons are ripe. One of the best indications of ripening is that the small tendril on the vine turns to a yellow or brown color when the melon ripens. The best test for the beginner is to place the hand on the melon and bear down on it. If it is quite ripe it will "give" slightly under the hand and will be heard to crack slightly.

The general healthfulness of farm animals in the United States on April 1st, was very nearly the average of preceding years, according to the department of agriculture; horses and sheep were slightly lower in condition, cattle slightly lower than a year ago, but above the ten-year average, and swine were above their condition of both a year ago and the ten-year average. The losses of horses from disease during the year were 20 per 1,000; of cattle from disease, 21 per 1,000; from exposure, 17 per 1,000; of sheep (not including spring lambs) about 27 per 1,000; from exposure, the losses were heavier than usual, being 46 per 1,000. The losses for hogs from disease were higher than usual, being 44 per 1,000. The number of breeding sows in the country is estimated at about 8 per cent less than a year ago.

PROTECTING
crops from parasites at the beginning is a good way to protect your profits at the end.

If you use Paris Green, be sure you get C. T. Raynolds pure Paris Green; the kind that's net poison; dark, granular, fine.

For any sort of spraying of fruit trees, vines, etc., you want Devoe Arsenate of Lead; in paste form, ready to dissolve in water. Doesn't do harm to the most delicate plants.

Be sure of the right name when you buy. Dealers who know sell these things.

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Ask for our "Paris Green" and "Arsenate of Lead" booklets

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book, THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.

Save Your Fruit and Vegetables

A man in Colorado sprayed his orchard with Swift's Arsenate of Lead. Out of 12,000 boxes of apples there was found only one box of wormy ones.

How does this compare with your experience? Do you spray at all?

Have you ever tried to find out whether it would pay to spray? Will you write for our book on leaf-eating pests and reports of results from using Swift's Arsenate of Lead?

This insecticide kills all leaf-eating pests, never burns or scorches the most delicate foliage, outlasts two to four sprayings with materials that are washed off by rain; mixes readily and stays in suspension, does not clog the pump, increases both quality and quantity of yield.

Send for valuable book on leaf-eating insects. Give your dealer's name.

Merrimac Chemical Co., 41 Broad Street, Boston, Mass.



Farmers & Merchants Insurance Company

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CASH CAPITAL, \$200,000. Fully paid. Oldest Nebraska insurance company. Fire, Lightning and Windstorm Insurance. Farm policy most liberal issued. Prompt adjustments and cash paid as soon as adjusted. For full particulars and name of nearest agent, address

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Guaranteed first-class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. J. B. Armstrong & Son, Shenandoah, Ia.

DAY BY DAY

AGRICOLA

It is more often a condition of the mind than of the body which keeps a man down.

Remember that the other fellow also has rights and is sensitive about having them treated with disrespect.

Sometimes the salt cakes in the shaker and you may shake and shake and get no salt. Try putting a few grains of pop corn into the shaker with the salt.

There was a great deal said and claimed in regard to the use of denatured alcohol instead of gasoline. Little has come out of it so far. It seems that alcohol has less explosive power than gasoline, that it requires much greater compression to cause it to ignite, so that the engines have to be remodeled for that purpose. Lengthening the cylinder piston will do this, as it forces the charge back into a smaller space.

Implement dealers report difficulty in getting pumping gasoline engines fast enough to supply the demand.

Second thoughts may be best, but not second mortgages.

Delicate fare is the mother of sickness. The pampered child is a feeble child, and so is the insufficiently fed child. The idle rich and the idle poor have small reason to be proud of either themselves or their posterity.

No farmer in this twentieth century is too big for his job. The job is more likely to be too big for the farmer.

The overwise child seldom makes the wise citizen. Premature development does not bring out the best in either flavor or soundness.

In the book of Deuteronomy we are told how the Israelites were brought to eat manna and be glad to get it. The secret is, "He suffered them to hunger." That is the way I teach a calf to drink milk. Let it get hungry enough to accept skim milk and take it from a pail. After a lusty calf has skipped a meal its mind seems to be more open to suggestions, and its mouth opens for something to fill the aching void.

The middlemen are like the poor—always with us. We need them when they are good, but have little use for them when they play grab game for their living.

Nothing was made in vain, but it is hard for a mere man to believe this when he sees a lap dog.

Our oats and barley, which looked so discouraged after the terrible cold waves of April, are again up and smiling. Some of the neighbors planted corn the last of April, but it looks risky for the latitude of 43. Corn is a heat-loving plant.

There is a lively demand for dairy cows and at unusually high prices. But the strange feature to many town people is the apparent negligence of farmers about raising more calves to sell as steers and heifers. One of the calf buyers in town has bought from 400 to 500 calves a month all this spring, and ships them to Chicago. I do not know how many the other dealer handles, but just think how much meat these calves would make if kept and fed for market as beefs. But what a lot of costly feed they would eat! It is impossible to raise all the calf crop here. Farmers would no more think of it than of planting all the corn they raise. Overstocking is too much of a good thing.

Those who grow fodder corn can save work and get better fodder by not planting it until the 5th to the 20th of June. It should grow fast and be tender rather than tough. Drill it in thick.

It is wicked to fail to observe one day in seven as a day of rest, and some of the big corporations have found it out. And it must be six times as wicked to be idle week days,

for there are six times as many of them.

When you see a bull pawing dust over his back and making more noise than an insurgent senator, it is a sign that he is trying to kill lice and, likewise, a sign that he may take you for one of the things he detests. Keep your side of the fence from him.

Here are three things which I have learned about lawn mowers: Get one with high wheels; the high wheel holds to the ground better. Get one with ball bearings; there is less friction and, therefore, it pushes easier. Get one with five knives instead of four. It takes a smaller "bite" and is less apt to clog. With high wheels, ball bearings and five knives, you can push a wide mower and get along fast. Do not fool away money on a narrow, low-wheel, four-knife mower unless your lawn is very small, and the wife wants a top to mow it with.

It is playing checkers with Dame

Nature to draw out coarse, strawy manure in the spring and plow it under to be planted to corn. The coarse rubbish hinders moisture from rising from the subsoil and if it should be a dry season the corn will suffer. If it should be a wet season it may be a benefit but it is a game of chance. It is better to mulch the surface lightly with it, using a good spreader.

Beware of the dog which looks at you in silence. Beware of the man who is suspicious of his neighbors.

Oats seem to have lost much of their stooling habit. Years ago two bushels of seed per acre would give a good stand, if sown early, but not so of late years.

I always like to plant some worm medicine seed, not to grow worms, but to kill them. Pumpkins are the best natural worm destroyer that I know of for farm growing. It is well to plant a patch to pumpkins exclusively, putting five seeds in each

hill, three for the bugs and two to live and grow.

Prof. C. H. Woods of the Missouri Agricultural College preaches the soil gospel wherever he goes. The Baltimore American man saw him at the Hotel Kernan, and Professor Woods said in part: "Any young man who is bright and industrious can own a farm of his own in a few years if he will be content at first to cultivate the land as a tenant. In the old country, especially in England, agriculture is carried on by a thrifty class of tenant farmers, and it will some day become part of our system. It is no downward step to cultivate rented soil, but, on the contrary, the one who does it with patience and close study will before many years be able to buy ground of his own. The products of the farm are going to continue high in price because demand and supply are about equal now, and hence the poor tenant can easily develop into the prosperous land owner."

FOR "THAT GLAD FEELING"



GOLUSA, ILL., March 7, 1910.

CLAY, ROBINSON & Co.,
Chicago, Ill.

Gentlemen:—I cannot help but think of the good sale you made on my hogs. You certainly have fine salesmen and they have always been able to get me a good price, for which I feel very grateful to you. The sale you made for me last Wednesday has left a good impression in this neighborhood as to your ability to sell. With best wishes, I am,

Yours truly, (Signed) ROBERT A. BARR.

Ship to "Clay, R. & Co."

No one ever succeeded in pleasing everybody—but we believe we have come a little nearer that mark than anyone else in our line of work.

Anyway, "pleasing people" has made us the largest sellers of live stock in the world. - - -

"THERE'S A REASON."

**Clay, Robinson
& Co. LIVE STOCK
COMMISSION**

Chicago South St. Joseph
South Omaha Kansas City
Sioux City South St. Paul
East Buffalo
East St. Louis
Denver
Fort Worth

Do You Want To
KNOW when, where and how to ship your stock so as to get most money?
KEEP posted on the markets and everything affecting your interests as a live stock owner?
RECEIVE expert advice on the feeding, handling and shipping of stock?
THEN read the "Live Stock Report," an up-to-date illustrated weekly paper published at Chicago by Clay, Robinson & Co.
WE WILL send the "Report" to anyone, whether a customer or not, upon receipt of 50 cents to cover postage for one year. The paper is easily worth many times that amount if you feed, breed or handle live stock. It's not an expense, but a profitable investment.
"It would be cheap at \$10 per year. Enclosed find \$1 for which send me the Report two years."—So writes J. L. Wolfley, Goffs, Kan., and we could print hundreds of similar letters if space permitted.
IF AFTER receiving the paper one month you are not fully satisfied we will refund your 50 cents.
Use the Coupon — Do It Now.

Every Stockman Should Read "THE LIVE STOCK REPORT"
Name.....
P.O.....
State.....
R.F.D.....
Please send me your paper one year. Enclosed find 50 cents to cover post. It is understood that you will refund money if I am not satisfied.

Echoes From a Kansas Farm

BY HENRY HATCH

There is now a great deal of worry over the chinch bugs. Even the women, at their aid society meetings, so we are told, devote some conversation to the chinch bug discussion. The reader must know by this that the situation is becoming rather acute.

The season of 1901 was our last dry one, and early in the summer of that year it looked as if the bugs would destroy the corn as well as the oat crop. The wheat got an early start and grew away from them. Then, as we hope it will be this time, the invasion of bugs seemed most alarming during May. The heat of that summer rather squelched them, and their injury to the corn crop did not amount to a great deal, after looking as if they might eat it all.

A cattle feeder should be encouraged by every corn seller. Not far from here is a man who feeds cattle by the hundred during the year. The price of corn in that locality is now ten cents a bushel higher than elsewhere. This feeder always adds the cost of shipping in to what he pays his nearest neighbors.

The other day we bought a sackful of cowpeas and will plant them later on where the hogs are now cleaning up an early sown field of oats. This will be our first experience with cowpeas, although we have seen the crop growing many times. This oat field, when the hogs have finished it, will be plowed and the soil put in the best possible condition. The peas will also be used for hog pasture.

Cowpeas is a crop that has been growing in popularity in recent years, and from present appearances, will soon rank as a general farm crop, as common at least as oats if the chinch bugs continue their depredations from year to year. If the bugs take this oat crop for us, we very much believe it will be our last, at any rate, until it is known that there are no bugs to contend with.

Yesterday we saw a field where two crops have already gone up, and it is yet barely the first of May. The neighbor had the land in wheat and when seen that the wheat was winter-killed, he disked and drilled in oats. A combination of dry weather and bugs has now finished the oats. It is a little uncommon for a man to lose two crops before May. He will have the third chance, and it is said the third is always the lucky time.

Last week we heard a wheat grower say that unless it rained within the next ten days, this county would not raise over 5,000 bushels of wheat. All fields that we have seen indicate that he may not be far from right. We have seen no fields that we would not plow up if ours. Of course, this is a corn and not a wheat county, but of late years our wheat acreage has been considerable, and the loss will amount to as high as forty to eighty acres to some.

Last winter was a tough one on all crops supposed to easily survive winter weather. It was the first winter in years that has thinned out the white clover. It has, in fact, almost wiped out the white clover. Where it was thick in our pasture there is only now and then a plant left.

Although rain enough to keep the soil in fairly good working condition, there has been no stream-filling rains since last fall. Those farmers having a scant water supply are now pinched rather close for stock water. Some are having to take their stock out of the waterless pastures and drive them a half mile or more to water, every day. This is a chore, and while it may rain to make plenty of water, even before tomorrow night, we would certainly set to work this dry weather and build a deep pond, thus making sure of plenty of water in the future.

No one need be without plenty of stock water in this country, at least in some spot on the farm. A good

well could be had on every farm if the vein could only be found, and more and more are being found every year, on farms heretofore considered absolutely without water. Where water cannot be had in veins it can be held in ponds. It is only a matter of making the pond deep enough to insure a plenty for any kinds of weather.

DEATH OF KING EDWARD.

King Edward VII. of England died last Friday night at the age of sixty-nine years. His death was sudden and unexpected although he had been suffering from bronchitis for several weeks. He made a trip to Biarritz in the hopes that his health might be improved, but it was noticeable on his return that he was failing. He continued transacting official business, however, until thirty-six hours before he died. He was immediately succeeded by his son, the Prince of Wales, who assumed the title of George V.

King Edward had been at the head of the British Empire since the death of Queen Victoria, nine years ago. He was universally respected as a monarch, being broad minded and possessed of great executive ability. He attained to the throne when well past middle age and brought to state affairs ripe experience and the discretion of years. In his early days King Edward sowed a considerable crop of wild oats, but on attaining to the throne he renounced all his former associates and never by word or deed did anything to bring aught but credit and honor to his country.

The Berkheimer-White Short-horn Sale.

The sale of Short-horns at Wayne, Neb., on April 30th, made by Mr. L. E. Berkheimer, of Malvern, Iowa, and Mr. Geo. H. White, of Emerson, Iowa, was quite well attended and an average of about \$100 was made on the entire offering. The attendance of breeders was the best that has been seen at a sale in northeast Nebraska in recent years. The two-year-old red bull, Victor Marshall, topped the sale at \$300, going to Mr. Robert Roggenbaugh, of Altoona, Neb. Proud Lad, a son of the noted bull, Good Choice, went to Mr. Will Meyers, of Wakefield, Neb., at \$290, and he was one of the best bargains in the sale. Mr. Henry Kloppe of Wayne, Neb., secured Ringleader, a son of the show bull, The Dreamer, at \$155, and the red bull, Thickset, went to Mr. J. Hopkins, of Tilden, Neb., at \$202.50. Other buyers were Peter Bloom, Wakefield; J. V. Francis, Carroll; Geo. Buskirk, Pender; Joe Walter, Linwood; C. T. Meyer, Laurel; Louis Koch, Wayne; Geo. Swigart, Hoskins; A. W. Carlin, Wakefield; E. A. Williams, Wayne, and Henry Bentheim, Winslow. Eleven head consigned by Mr. Geo. H. White made an average of \$153.68. Colonel Bellows cried the sale. One of the unusual things occurred at this sale—the retesting of the cattle after they had arrived at Wayne. We were credibly informed that the cattle had all been tested and certificates accompanied the cattle, but the state of Nebraska, through her veterinarian, stepped in and retested.

Nebraska Farm Bargains.

Special attention is called to the advertisement on page 29 of Mr. G. A. Dennis, of Lincoln, Neb., who is offering some genuine bargains in Nebraska farm and ranch lands. One of these farms is located in Thayer county. It is close to Deshler on the Rock Island, and Carleton on St. Joe & Grand Island, and only a short distance from Hebron, the county seat. Thayer is one of the best counties in the state and Hebron is a good, live town with good schools, churches, a fine new courthouse and first-class stores of all kinds. This farm of 363 acres is well improved and priced away below actual value. Another farm is in Nuckolls county and consists of 240 acres, only a short distance from three good towns with fine roads to each, and three lines of railroad, the Rock Island, Burlington and C. & N. W., good improvements, eighty-five acres of alfalfa, plenty of good timber for posts and fuel, no underbrush. Pasture fenced with good woven wire. One of the best farms in the county. Another is a ranch of 1,200 acres in Hayes county, a really good ranch, all fenced, with well and mill, most of it level and is all good, heavy soil. This ranch will sell inside or three years for \$30 per acre. It is now being offered at the very low price of \$15 per acre. The other farm is in Dawson county, a short distance from Eddyville on the Union Pacific. Some alfalfa and more alfalfa land, all fenced and cross fenced; wells and windmills, good house, stable, granary and other sheds in fair condition. For further information write Mr. Dennis and arrange your affairs to go and see some of these farm bargains. Mention The Homestead when writing.

If you have decided upon going west to investigate some of the lands advertised in this issue, we desire to call especial attention to the advertisement of Messrs. L. S. Olsen & Co., of Williston, N. D. Mr. Olsen is an old timer at that point, having homesteaded and

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and address, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

COLORADO needs 20,000 more fruit-growers to help supply her world-wide markets for apples, peaches, pears, plums and other fruits. Do you want to know how to make a yearly profit of \$75 to \$350 an acre on apples, peaches, etc., and a profit of \$50 to \$275 an acre on small fruits? Let us tell you. Colorado fruit-growers conquer frosts by using smudge-pots, thus getting a full crop every year. For information and literature on Colorado fruit lands, write State Board of Immigration, Room 21, State House, Denver, Colorado. We are supported by the state and sell no lands.

COLORADO FARMS. If you want western land, may I explain opportunity in northeast Colorado, in irrigated or non-irrigated wild land, or improved farms. Upon the ground, experienced expert in every detail of the land trade, I am in position to aid a buyer by acting (if so required) exclusively in his interest to secure for him a bargain in land. I refer by special permission to First National Bank, Sterling, Colorado. For information address, H. A. Clapp, Sterling, Colorado.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

GET SOME government land in British Columbia, Canada, along the Grand Trunk Pacific Railroad; level; cleared ready for the plow; irrigation not required. Citizens of U. S. may take from 40 to 640 acres at \$6.75 an acre; \$1 an acre down secures it. Address U. S. Office Prince Rupert Land Syndicate, Ltd., 710 Marion Bldg., Seattle, U. S. A.

SOUTHERN Minnesota, Cottonwood County lands for sale. 430 acres, 3 miles from Jeffers, Minn. Over \$6,000 in buildings and fences; more than 4 miles of tile, making a total of over \$9,000 in improvements. One of the best stock or grain farms in the county. Price, \$65 per acre. Jeffers Land Co., Jeffers, Minn., owner.

776 ACRE, Lafayette County, Missouri, farm; highly improved; 2 miles from town and 30 miles east of Kansas City, Mo. No better farm in Missouri for corn, wheat, clover, bluegrass, etc. Will accept part trade. Easy terms. Address Investment Exchange Company, Higginsville, Missouri.

GOVERNMENT FARMS free. Official 112-page book, "Vacant Government Lands" describes every acre in every county in U. S. How secured free. 1910 diagrams and tables. All about irrigated farms. Price 25c. postpaid. Webb Pub. Co., Sta. H, St. Paul, Minnesota.

SOUTH DAKOTA land is making good. We have land in the famous new county of Stanley, for sale at \$10 to \$25 per acre. One crop pays for the land. Write for list and circular. Skrove Bros. Land Co., Kadoka, South Dakota.

I HAVE nice quarter, fourteen miles from post-office, Winnipeg, that have held nine years. Will sell cheap. Farmed on three sides. Milk, hay and produce sell at high prices in the city. W. T. Jackson, Marion, Iowa.

FOR CENTRAL South Dakota lands, write to David T. Jekyll, Highmore, South Dakota. Hyde, Hughes and Sully counties are the best fields for investment in the state today. Correspondence solicited.

WE BUY, sell and exchange land for stocks goods and good income property; Minnesota, South and North Dakota. Agents wanted. Liberal commissions paid. Mack Land Company, Miller, S. D.

SOUTHERN Minnesota lands. If you want a good farm, a good home, a profitable investment, come to Alden, Minnesota, and see our bargains, or write your wants. Ralph O. Olson, Alden, Minn.

CASH for your business or farm. No matter where located or what your property is worth, if you want to buy, sell or exchange, address Frank P. Cleveland, 1279 Adams Express Building, Chicago, Ill.

BEST STOCK RANCH on earth, sixteen hundred acres; for quick sale, nine dollars per acre. Many other snaps in real estate. Eureka Land & Loan Co., Midland, South Dakota.

FIFTY Virginia farms. Eight to fifteen dollars per acre; land good; mild and healthful climate. Write for catalog. Jeffers, Hester & Company, Chase City, Virginia.

FOR SALE by owner; 280 acre improved farm adjoining live town. Reasonable terms. Also several other good farms for sale. A. D. Kirschman, De Graff, Minnesota.

BARGAINS in South Dakota land. Exchanges made in land, city property, merchandise, live stock. C. C. Ward, Underwood, South Dakota.

YOU WANT South Dakota land. We have it. Write today your wants. Free description first mail. Eakin Gregg Land Co., Blunt, South Dakota.

FOR SALE—160 acres, 3 miles from railroad station; good soil guaranteed. For price and terms, write E. J. Quirk, Highmore, South Dakota.

LYMAN COUNTY SNAPS—15,000 acres of choice lands for sale at \$15 per acre up. Write for particulars. A. T. Cretney, Vivian, South Dakota.

WRITE for my list of deeded land relinquishments and homesteads. Prices reasonable. Ira L. Hazleton, New Underwood, South Dakota.

WESTERN Stanley County. Write now for free list, maps and information. Live agents wanted. Bernal Land Company, Cottonwood, S. D.

CASH for property, any kind, anywhere. If you want to buy, sell or exchange, address Northwestern Business Agency, Minneapolis, Minnesota.

FIRST CLASS farm mortgages for sale. Best security on earth. Stanley County Land Co., Incorporated, Cottonwood, South Dakota.

LOCATE in the great winter wheat belt. Cottonwood Land Co., Cottonwood, South Dakota. Deeded lands and relinquishments.

FOR THE BEST bargains in land, Hyde or Hughes County lands, write or see J. C. McLove, Miller, South Dakota.

WRITE US for our list of cheap land in Hyde, Hughes and Sully counties. Stewart Bros., Harrold, South Dakota.

CASH for your property, less than 90 days. Real Estate Salesman, Lincoln, Nebraska, 219 Finke.

FOR BARGAINS in Central South Dakota land, address The Kelsor Land Co., Highmore, S. D.

KANSAS FARMS, one fifth down, balance time Dillon & Woodward, Dill, Oklahoma.

farmed for a number of years, and has gradually secured a large number of the finest farms located in that part of the state. He has traveled extensively and is well acquainted with the existing conditions throughout the United States, but he believes that for the small or large investor or homeseeker northwestern North Dakota is without peer.

REAL ESTATE.

BEAUTIFUL INDIAN Territory. Rolling hardwood timber; black prairie lands; mild climate; December roses; gardening in February; health, wealth and happiness; fruit, stock, general farming; \$10 to \$35 per acre; large or small tracts. Perfect titles. Write for maps and particulars. Immigration Society, Box 26, Atoka, Oklahoma.

FOR SALE—320 acres, unimproved, \$25; 320 acres, improved, one mile from town, \$45; 160 acres, improved, \$35; 240 acres, improved, \$40 per acre. These farms and others are in the best farming section of Southern Minnesota. C. G. Erickson Land Co., 411 Palace Bldg., Minneapolis, Minnesota.

A SNAP! A snap! A snap! Good little farm at only \$300, on easy terms. Clay loam soil; level; house and clearing; in splendid dairying region; only 60 miles from Twin Cities. Write today for full information. Owner, W. H. Lock, Box A, St. Croix Falls, Wisconsin.

STARK COUNTY, North Dakota, 200 acre farm, 7 miles from Richardson. 100 acres under plow; all tillable; no buildings; rich clay soil. German and American farmers. \$23 per acre, part cash. Write for further information. Kane-Kober Company, St. Paul, Minnesota.

NOTICE TO FARMERS and investors: We are selling the select 160 and 320 acre tracts of farm land within 15 miles of Presho, Lyman county, South Dakota. Only prime land handled. Write or call at office in Presho. Fenton & Gannon.

260 ACRES—10 room house; 2 silos, 200 tons each; 4 barns; 60 cow stalls; carriage house. Aged owner. Must sell. \$1,000, 1/2 cash, Hall's Farm Agency, Owego, Tioga County, New York.

240 ACRE FARM, Dodge County, Minnesota. Black loam soil, small house, barn large enough for 20 head stock. Bidwell & Co., Minneapolis, Minn.

OLD VIRGINIA farms for sale. Send for free illustrated catalog; largest list in Virginia. Casselman & Co., Richmond, Virginia.

CENTRAL MINNESOTA farms. Send for list of our improved farms. A. G. Whitney Land & Loan Co., St. Cloud, Minnesota.

300 CHOICE FARMS in Northeast Kansas for sale. Write for descriptive list. Manville & Bailey, Holton, Kansas.

IOWA LANDS for sale and trade. Write us what you want. We deal quick. Wolfe Land Co., Mt. Vernon, Iowa.

HELP WANTED.

WANTED—MEN, WOMEN—To try counting railway mail internal revenue and postoffice examinations, \$50 to \$125 monthly. Annual vacations. Short hours. Steady work. Common education sufficient. Over 15,000 appointments this year. Influence unnecessary. Write immediately for dates of coming examinations in your neighborhood. Candidates prepared free. Franklin Institute, Dept. T 23, Rochester, New York.

WANTED—Motormen and conductors for street cars, firemen and brakemen for steam railways, \$30 to \$150 per month. Hundreds of vacancies. Write for particulars. American Standard Railway Institute, Kansas City, Missouri.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination. Write for schedule and free trial lesson. Ozment, Dept. 42 R, St. Louis, Missouri.

POULTRY.

INOCULATION of chickens scientific. Oculum cures, renders immune to cholera, white diarrhea, roup. Deaths reduced eighty per cent. Quarter inoculates fifty. Hancock Inoculation Co., Box C, Salem, Virginia.

EGGS from high-scoring Barred White and Buff Plymouth Rocks; 15 eggs, one dollar; 45 eggs, two dollars. A. Mathews, Mt. Union, Iowa.

Bronze turkey eggs, \$3, 12. 10 pens Rose Comb Buff Orpingtons, all breeding stock, for sale. B. J. Grover, Trempealeau, Wisconsin.

ROSE Comb Rhode Island Reds. Choice stock; farm range. Eggs, 75c. per 15; \$4 per 100. Mrs. J. Holmgren, Rolfe, Iowa.

SILVER LACED Wyandotte eggs, \$1 for 15, \$5 per 100. Miss Julia Driscoll, Plainfield, Iowa.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

CATTLE.

DOUBLE STANDARD Polled Durhams. Best Scotch breeding. "International" prospects; others cheaper. Herd officially tested. F. Bunker, Kilbourn, Wisconsin.

GUERNSEYS—"The Butter Breed"—choice youngsters; both sexes; from official record and advanced registry ancestors. A. H. Hinman, Allen-ville, Wisconsin.

ENGRAVING.

ENGRAVING—Half tones made from pictures and drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

KODAK.

KODAK your stock; send customers a picture. Kodaks, \$5 to \$35. A Brownie, 24x34, with complete outfit, \$4. Catalog free. F. M. Alexander, 303, Atlantic, Iowa.

AGENTS WANTED.

FARMER AGENTS wanted to sell Malleable Hay Rack Brackets and Harvester Tongue-supports. Lucas Mfg. Co., Slater, Missouri.

POST CARDS.

30 FINE post cards, only 10c. Mostly birthdays; no trash. German American Post Card Co., Dept. 5, Burlington, Iowa.

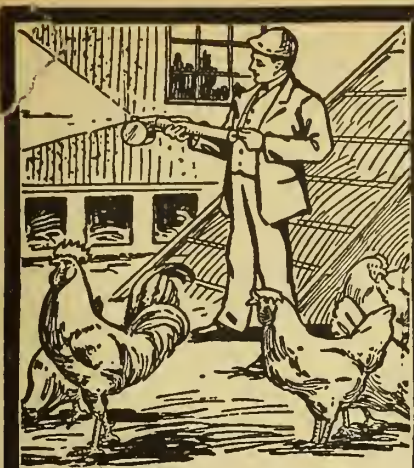
DOGS.

COLLIES—Stud dogs, brood matrons, lots of puppies; must sell. Sunnyhae Kennels, Bloomington, Illinois.

MISCELLANEOUS.

PLANS DRAWN for modern farm and dairy buildings. Our stave site best of all. New book just out of press, "Farm, Dairy, Home," eighty pages, forty photos; twenty-five cents. Buff Jersey, Monmouth, Illinois.

BOYS, ATTENTION! We give a watch free for a couple of hours' work. Write for particulars. Hub Mercantile Co., Currie, Minnesota.



Clean Up and Disinfect

everything about the barn, hog pen, cow stable, chicken yard, sinks, drains, cellar, cess-pools, etc., with a solution of

Dr. Hess Dip and Disinfectant

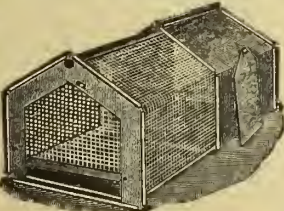
One gallon Dip makes 70 to 100 gallons of solution. The greatest preventive of disease known. Kills lice, mites, sheep ticks, fleas. Cures sheep scab, mange, eczema and other parasitic skin diseases of horses, cattle, sheep, hogs, dogs and poultry. Also heals cuts, burns and infectious sores.

If your dealer cannot supply you, we will. Write for circular.

DR. HESS & CLARK
Ashland, Ohio.

The CLUCK'S IDEAL BROOD COOP

\$1.50
Sold
Direct
\$2.50

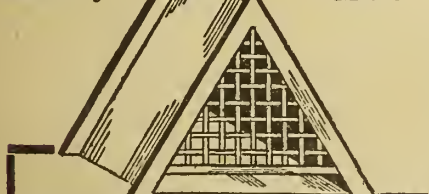


FROM manufacturer to the farmer; no middle-man's profits. Protect your chicks. This is absolutely the only up-to-date Sheet Metal Coop on the market today that will answer to the following in the most perfect manner. Points to be considered: All the following points, which make up a perfect Brood Coop, are found in this photograph. We invite your criticism. It does not rust. It does not become damp. It does not become foul from use. It does not require painting to keep the lice out. It is louse proof. It is mite proof. It is rat, cat and mink proof when closed at night. It can be folded and put away for the winter. It can be taken apart and cleaned. It gives perfect ventilation, either when yard is opened or telescoped. It will last a lifetime. When used with telescoping yard left open, the chicks are free from danger. Write for descriptive circular and special prices on orders calling for three or more coops.

STOVER GAS MACHINE MFG. COMPANY
FREEPORT, ILLINOIS.

Rat Proof
and
Sanitary

No Lice
or
Mites



CLUCK'S PRIDE COOP makes chicken raising profitable. Better than any wooden coop you ever saw. Made of galvanized iron, rust and vermin proof. No painting required. Never becomes damp, folds flat when not in use. Ends and bottom removable and thoroughly ventilated. Write today for full particulars and prices. Agents everywhere make \$10 a day and up. **MAURER MFG. CO., Box 22, Freeport, Ill.**

160 DAYS FREE TRIAL

BONDED SURE HATCH

During this month we will send a brooder for actual half price to every person ordering a **Sure Hatch Bonded Incubator**. This is the only incubator guaranteed and backed by a \$1,000,000 surety bond of the Bankers Surety Co., Cleveland, Ohio. We pay the freight.

SURE HATCH INCUBATOR CO.
Box 16 FREMONT, NEBR.

BROODER

1/2 PRICE

ONE HALF PRICE

POULTRY

This department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

KEEPING FOWLS HEALTHY.

To the Editor of The Homestead:

Practically all poultry diseases are preventable. To prevent disease the cause must be removed or avoided. The more common predisposing causes are unsanitary surroundings, poorly ventilated quarters, crowding, vermin, dampness, foul ground, impure food or water, mold or must, careless feeding, drafts, exposure to chilling winds or storms without proper shelter, insufficient exercise and last but, not least, breeding from debilitated or unhealthy birds. All of the above causes may and should be avoided. Many poultry ailments are caused by some microscopic germ. The poultryman who exercises good judgment in handling his flock and gives them good care will seldom if ever have any cause to fear disease germs. Every fowl that is sound and healthy possesses well-developed, disease-resisting qualities. It is only when the birds are run down and out of condition that disease germs find things favorable for rapid development and so cause trouble. We should exercise the utmost care to breed only from strong, sturdy, vigorous, hardy, healthy, well-matured specimens and be sure that this stock has been healthy at all stages of its growth. So far as possible breed only from birds that have never had a day's sickness. This applies to both sexes. Where possible one should make sure that the birds he selects for breeders have been bred from sound, healthy stock, so that they may have a hereditary tendency to health. If care is exercised in this matter it will go a long way toward the prevention of disease. My experience of several years in the poultry business has taught me that it is never safe to breed from any bird that has once had serious illness. There is always a chance that the bird has not made a perfect recovery and there is no way to tell positively just how complete the cure of a sick specimen may be.

In order to keep fowls healthy we must breed for health just as we would for any other desired quality. Given healthy fowls we should keep them healthy by good care and management. Too often the poultry house is a filthy, unsanitary place, full of stagnant air and crowded far beyond its capacity. Pure fresh air, day and night, is one of the prime essentials for keeping fowls in good health. At the present time open-front poultry houses are very popular and are giving very satisfactory results. Such buildings have part or the whole of the south front covered only by fine mesh wire netting and open at all times to the weather. Fowls housed in these open-front buildings are very rarely subject to disease and prove remarkably productive. They are much less affected by weather changes than birds confined in the old-fashioned, tightly-closed buildings. Those having tight poultry buildings will find it much to their advantage in the betterment of the health and productiveness of their flock if they will replace a portion of the glass in the south fronts of their poultry houses with screens of coarse, unbleached muslin loosely tacked on wooden frames. These screens admit air, fresh and pure, at all times without danger from drafts. Drafts must be avoided, since they give rise to colds and catarrhal colds provide a favorable seat for the development of the disease germs which cause roup.

Crowding on the roost is another common cause of taking cold, and should be avoided. As a rule all that is needed to check sudden colds is an abundance of pure, fresh, dry air to breathe, in quarters that are not crowded and that are free from drafts. I find the following is a simple and effectual remedy for sudden colds. Drop twenty drops spirit of camphor on a little sugar and dissolve the whole in a pint of drinking water and

allow the birds no other drink. Discontinue the remedy as soon as the symptoms of the cold disappear. Vermin, the presence of which tends toward impaired condition and therefore disease can easily be gotten rid of by using a good, liquid lice paint freely about the poultry house in connection with the judicious application of fresh whitewash twice a year, and a thorough dusting of the fowls with some good insect powder once every two or three months. Sunshine is a great purifier and natural disinfectant and the poultry houses should be so arranged that there will be an abundance of sunshine in the buildings on fair days. Exercise is also essential to health. When the birds are confined and cannot have free range they should be provided with clean bright litter to scratch in.

Litter material should never be damp, musty or moldy as the spores contained in must and mold breed serious disease. I am very careful to keep my poultry buildings dry at all times, as dampness results in ill health. If the house is damp from so-called house sweating, or the accumulation of moisture and frost on the walls, the building is either overcrowded or does not have a sufficient supply of fresh air. Foul drinking water and filthy drinking vessels are a prolific source of trouble. Use only pure fresh water from a source you know is not contaminated and supply it in clean receptacles. Never allow the fowls to drink from a stream into which the poultry yards and barn yards drain. Many an epidemic of so-called "fowl typhoid" may be traced directly to the birds having access to foul water tainted with barn yard seepage, sewage and the wash from duck and hog pens. The feeding of food that is pure and wholesome is very important. Particular care should be taken in regard to the animal food fed. Fresh-cut meat and bone or pure, wholesome beef scrap that has a rich meaty odor are the safest meat foods. If scrap smells foul like fertilizer it is unfit for poultry feeding. Allow the birds a variety of sound, clean grains, corn, wheat and oats are

Bandmen

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IS YOUR HORSE WORTH \$100 I CURE Spavins

Hundreds of Severe Cases yield to my remedy. Easy to apply, use horse while curing. Will not injure hair. Money Back if not satisfactory. Send \$1.00 TODAY.

F. YOUNG, 9119 Commercial Ave. CHICAGO

\$7.55 Buys Best 140-Egg Incubator

Double case all over; best copper tank; nursery self-regulator. Best 140-chick brooder, \$4.50. Both ordered together \$11.50. Freight Prepaid. No machines at any price are better. Write for book today or send price and save waiting. Satisfaction guaranteed.

BELLE CITY INCUBATOR CO., Box 52 Racine, Wis.

OLD TRUSTY

800,000 men, women and children, beginners and old timers, are now making big money with the Old Trusty **INCUBATOR**. Let me tell you about my 80 or 60 day free trial and 10-year guarantee offer.

M. M. JOHNSON
Clay Center, Neb.

BOOK FREE

The "Quicker Yet" Washing Machine

How It Does It. Fly wheels used in other speed gear washers require nearly as much strength to get them started as the clothes require to get washed. In the Quicker Yet momentum is supplied by two weights requiring no extra strength to start. When you set washer in motion they begin to revolve, fly straight out, gathering impetus every second, take a grip on the work that actually decreases pressure on handle necessary to get machine under way.

Gathers its own Momentum

Can't stop on dead center if it wants to. This is but one of the scores of little details each of which must be polished down to a finish to make a washing machine 100 per cent good. One at a time they might mean little; taken altogether they mean the **Quicker Yet**—a washer that in time, strength, and boisterous saving advantages is the marvel of the age. It's the washer by which all others are judged.

The Crowning Achievement of the Most Experienced Mechanics in the World

Not only washes quicker and more thoroughly, but starts and runs easier—gathers its own momentum. No complicated machinery on top—no need to disconnect anything—no need to touch wringer. This can be said of no other washer. Tub is built of Louisiana red cypress. Won't warp, swell or crack with ordinary use. Hooped together with non-rusting galvanized steel. Wherever strength is needed steel is used. Its strength and durability guarantee your children same service it gives you. You should know more about the Quicker Yet. A charming little booklet, "The Quicker Yet Way" will be sent you free if you'll send us your name; also tell us who your hardware dealer is. If he can't show you a Quicker Yet we'll arrange so he can—if you want us to. But write for the booklet at once.

The Globe Mfg. Co.
420 Rawson St., Perry, Ia.

Live Stock Pictures for Advertising

The importance of good pictures for use in live stock sale catalogs as well as in all live stock advertising, is well known. Our Art Department is one of the most completely equipped in the United States. Our corps of Artists make first class photographs, sketches, drawings or paintings. Our Engraving Plant furnishes engravings ready for printing. Prices, or any information cheerfully given on application. Address **ART DEPARTMENT,**

The Pierce Farm Weeklies :: Des Moines, Iowa.

the staples, some meat food daily, plenty of vegetable food and free access to grit, oyster shells, charcoal and pure water. Feed liberally and regularly as more birds have been injured by being half starved than have ever been hurt by overfeeding. Buy only the best feeding grain and see that it is clean and free from mold, must, smut or dust. The dust contained in grain is likely to harbor microscopic disease germs that may cause serious trouble. Where it is possible it is well to run the grain through a cleaner to get rid of the dust before it is fed. The farmer who is able to produce his own grain and have it ground for him where he can be sure he obtains the home product has a great advantage over those who are obliged to depend upon commercial sources.

Union county, Ill. O. F. Taylor.

LIVER TROUBLES.

To the Editor of The Homestead:

A Missouri subscriber sends the following communication:

I should like to know what ails my fowls. Their combs are red and they eat all the time, but become weak and emaciated, linger along in this way for a time and then die. This has been going on since last fall. Their feed through the winter consists of corn and oats on litter with plenty of apples. In summer and spring they have the range of the farm and are fed oats in the evening and have oyster shells before them at all times.

These fowls are afflicted with liver trouble which always follows indigestion. Anything that throws extra work on the liver will bring on this trouble, such as feeding musty or moldy grain, tainted or rotten meat. In this case it was caused by feeding too many oats and not enough grit. It will be seen that our correspondent has relied entirely on oyster shells for grit and that a large share of their food was oats which contain a very large percentage of woody fiber (the hull), thus entailing a large amount of labor by the digestive organs. If conditions are normal as to exercise, grit, etc., the practice is not liable to result so injuriously. In fact I recommend that the food should contain a certain percentage of oats. In this case, however, no grit is mentioned, our correspondent no doubt laboring under the delusion that because they have the farm range they can get this themselves. If the weather is favorable and grit available, that is a good argument, but I will venture to say that not 1 per cent of the farmer's fowls have such conditions. This is a broad statement I am aware, but I believe I am justified in making it because of my opportunities for investigation. I am positive that this is the prime cause of our correspondent's trouble. Oyster shells should never be relied upon to take the place of grit, as they become soft soon after being taken into the gizzard and are digested with the food; hence it is absolutely necessary that the fowls have access to good sharp grit at all times. It is their teeth and the only way they have of mastication.

Do not content yourself with simply giving them a little now and then because you are liable to be busy after a time and forget to supply it just when they need it most, and indigestion is sure to follow. Grit is especially necessary when such grains as oats, barley or speltz are being fed.

In such cases as this the first step to be taken is to remove the cause. When fowls once get into such a condition as our correspondent's I would suggest withholding all whole grain for a time; in fact, decrease their daily ration, giving them soft, semi-cooked food to which add enough pulverized charcoal to make the food good and black. They may not take to it at first, but give them nothing else until they do, and, as soon as they begin to have a ravenous appetite gradually commence on a varied ration of grain. Make them work for it and see that plenty of good sharp grit is given. Use the Douglas mixture in their drinking water and give them no other water. Have no fear of this being contagious.

C. E. Matteson.

North Missouri towns will have to egg up their hens if Trenton is to be outstripped as a poultry center. A Trenton firm received 1,000,000 eggs in one week.

POINTERS.

—Mr. W. A. Hartman, breeder of Barred Plymouth Rocks, at Winterset, Iowa, makes a change in his advertisement on page 21. For the balance of the season he is offering eggs at greatly reduced prices which are named in the advertisement.

—Mr. E. A. Taylor, of Boone, Iowa, breeds Rose Comb Brown Leghorn chickens and offers eggs for sale on page 21. Eggs so far from Mr. Taylor's hens have hatched 95 per cent. He can fill orders on short notice and guarantees them to be fresh. Note the prices in the advertisement and send orders without delay.

—Mr. Charles G. Jackson, of Prescott, Iowa, is starting a new advertisement which will be found on this page of this issue. Mr. Jackson breeds both Rose and Single Comb White Leghorns and at the present time is offering eggs for sale. His stock comes from the leading egg-producing strains. He guarantees fertile eggs and makes reasonable prices.

—In her advertisement on this page Mrs. O. A. Mace, of Bedford, Iowa, offers Buff Orpington eggs for sale. Mrs. Mace is a believer in size as well as fine points, and for this reason has been devoting her attention to the development of birds of size with extra good laying qualities. In this endeavor she has not, however, overlooked the points of excellence, as her birds have scored high by the most competent judges.

—Buyers of Barred Plymouth Rock eggs should not fail to note the special announcement of Messrs. H. C. Saunders & Son on page 21 of this issue. Messrs. Saunders' flocks are made up from the very best of the leading strains of blood of the breed. They come from prize winners for generations back. The attractive end-of-the-season prices on eggs cannot fail to please buyers. Send orders quickly to Messrs. H. C. Saunders & Son, Montezuma, Iowa.

—Mrs. E. C. Turner, breeder of White Plymouth Rocks, of Griswold, Iowa, whose advertisement appears on page 21, makes a special announcement this week that for the remainder of the season she will reduce her prices to \$1.00 for fifteen eggs, \$1.50 for thirty, or \$4.00 per 100. She makes this special offer for the reason that she now has over 200 lively, strong and thrifty chicks, and will not need near so many eggs for her own hatching. Buyers will profit by this situation.

—Mr. Edward Dooley, breeder of Single Comb Brown Leghorn chickens at Selma, Iowa, announced in a recent issue of this paper that he would give a premium of one extra sitting of eggs to the party who sent the first order to him this season. Under date of May 2d he writes, saying: "I advertised in The Homestead that I would give away to the first order I received, an extra sitting of eggs. I received two orders, both dated April 30th, and have decided to send each of them a free setting. One of the buyers was Mrs. Levi Jesnema, of Newton, Iowa, and the other, Mr. John Gienopp, Laurel, Neb. The Homestead beats them all for advertising."

—The peculiar weather of the past month will undoubtedly have laid the foundation for difficulties in poultry leading to roup and bowel trouble. It will be of interest, therefore, to know that a most excellent remedy for these difficulties has been perfected. It is known as Walker's Roup and Cholera Cure and is sold at the rate of fifty cents per package by the Walker Remedy Company, Dept. U, Lamoni, Iowa. The remedy is a tested one and a great many people testify to its merits just as confidently as does Mrs. Louise Harvey, of Gandy, Neb., who after having lost nearly 100 young chickens from white diarrhea, wrote as follows: "I used the remedy as directed and lost very few chickens after having given it. The remedy is all that is claimed

for it and is a certain cure for the disease mentioned."

—Mrs. W. F. Prather, breeder of White Wyandotte chickens at Atlantic, Iowa, who advertises eggs for sale on page 21, writes as follows: "I can furnish eggs from my pens of Snow White Wyandottes at from \$1.00 to \$1.50 per fifteen for the remainder of the season. The birds which compose these pens score from 92½ to 95½ points. They are very fine in color, shape, comb and eyes. I also have a good free-range flock of all-round good ones from which eggs will be sold at seventy-five cents per thirteen. My chicks hatched up to date are strong and vigorous and a good percentage are hatching well. I guarantee satisfaction."

Cut Prices on Bradley-Bred Eggs.

We desire to call attention of Homestead readers to the advertisement of Mrs. L. C. Reese, of Prescott, Iowa, who is making cut prices on Barred Plymouth Rock eggs from Bradley-bred stock. Mrs. Reese has one of the very best flocks of Plymouth Rocks in the West and every pen that she has is a high scorer. She has not used a cockerel in her flock that would not score high and she has bought the very best that Bradley Bros. have produced. She has mated for both cockerel and pullet matings and you will be interested in the circular that she is now mailing to applicants. If you want something good in the way of Barred Plymouth Rock eggs from one of the most reliable breeders that there is in the West then you want to send your order to Mrs. L. C. Reese, Prescott, Iowa, and send it as soon as possible. Read her advertisement on this page and write her at once.

DOGS.

Fox Terriers King of the rat terriers. Puppies and grown stock for sale. Single Comb Reds, winners 5 silver cups and 34 ribbons, 1909-10. Eggs, \$2 per 15. Sabot Kennels, Pella, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

COLLIES—Having decided to close out my Collies will price pups at \$5 each while they last. Breeding stock reasonable. C. H. Drake, Hazleton, Iowa.

COLLIES—Just imported O. Sample; pups, yearling dogs, bitches. Send for list. Special—3 S. and W. bitches, 7 mos. old. P. L. Savage, St. Charles, Ill.

FOR SALE Litter of Scotch Collie pups; males, \$4; females, \$2. Address Frank van Hoven, R. 2, Milford, Illinois.

ORPINGTONS.

ORPINGTONS, S. C. Buff. A fine stock. Farm raised. Eggs \$1.50; 30, \$2.00; 50, \$3.00; 100 \$5. Address, Dan McCarthy, Winthrop, Iowa.

Buff Orpington Eggs from scored pens. Eggs from a fine pen of Houdans. Write me. Mrs. Chas. Gutches, Floyd, Iowa.

S. C. Buff Orpingtons Eggs for hatching; \$1.50, 15; \$7, 100. Fertile eggs guaranteed. Frank Rafoth, Earlville, Iowa.

S. C. Buff Orpingtons Cook strain; eggs for hatching, 15, \$1.50; 30, \$2.50. Address Mrs. Geo. Haas, Shelby, Iowa.

S. C. BUFF ORPINGTONS Good shape, size or color; free range eggs, \$4 per 100; 75c. per 15. Address O. J. Early, Bristow, Ia.

EGGS Buff Orpington, \$3 per 15; state show winners, Cook's best strain and others. Catalog free. Alfafadell Poultry Co., Box 429, Farnam, Neb.

S. C. Buff Orpington eggs for sale. Flock headed by prize-winning cockerel. \$1.25 for 15; \$5 per 100. Mrs. Thos. McManus, Lenox, Iowa.

PURE-BRED S. C. BUFF ORPINGTON EGGS \$1 per 15. \$5 per 100. Mrs. John A. Miller, R. 3, Creston, Iowa.

S. C. Buff, Black, White and R.C. White scored ckls. Won hundreds of prizes. Eggs, \$1.50 up. Hens with baby chicks. Mating list. Dr. Evans, Legrand, Ia.

Buff Orpington Eggs from prize-winning birds, \$1.50 to \$3 per 15; also orders booked for baby chicks. Mrs. O. A. Mace, Bedford, Ia.

ORPINGTONS (Buff). Greatest winter-laying hens in the world. Eggs for sale. Free catalog. Prewitt, R. 5, Onawa, Iowa.

MINORCAS.

S. C. BLACK MINORCAS EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

TOO LATE TO CLASSIFY.

BARRED PLYMOUTH ROCKS

If you want something first class to start a flock or improve, order eggs from our special pens, either cockerel or pullet mating. Also a farm-range flock of good quality. S. C. Rhode Island Reds that are red and have size and shape—two yards. M. B. turkeys; just a few more sittings for sale. Send for catalog. E. H. Bodley, Box 29, Newton, Iowa.

CUT PRICES ON EGGS AFTER MAY 15th BRADLEY strains from high scoring males and females. Pen of pullet mating, pen B. cockerel mating. Price now \$2, 15; \$3.75, 30; \$5.75, 50 eggs. P. B. pen pure Bradleys, \$3, 15; \$5.50, 30. All three pens are strong in Bradley blood and each headed by a Bradley cockerel. Mrs. L. C. Reese, Prescott, Iowa.

WHITE WYANDOTTES Exclusively. Farm range. Eggs, 20 for \$1; \$4 per 100. A. L. Surfus, Bristow, Iowa.

ROSE COMB Rhode Island Reds. Eggs from selected layers, \$1.25 for 15; \$3 for 45; \$5 for 100. D. Rich, Mt. Pleasant, Iowa.

LEGHORNS.

"MONEY IN EGGS"

S. C. Brown Leghorns—My method and farm range has developed layers with vigor. My eggs produce layers. One-third fancier's price and better layers, \$1.50 per 30; \$3 per 60; \$4 per 100; \$6 per 200. Prompt shipment. J. E. McCarthy, Enfield, N.H.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 12 years with this breed. Eggs: 1 Pens 1 and 2, 15, \$3; 30, \$5. Scored flocks; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1.50; \$3, 100; \$5, 200. R. R. STEWART, R. 2, Charles City, Iowa.

ROSE COMB BROWN LEGHORNS EXCLUSIVELY

EGGS for hatching, \$1.25 for single sitting of 15 eggs; 2 or more sittings, \$1 each; 50 eggs, \$3; 100 eggs, \$5; 200 eggs for \$9. T. A. Davenport, Belmond, Ia.

High Quality Fertile Eggs for Breeders

Spring Valley Dairy and Egg Farm. Chas. G. Jackson, Prescott, Iowa, specialty breeder world's leading egg strain thoroughbred R. and S. C. White Leghorns. Satisfaction guaranteed.

Rose Comb Brown Leghorns

Bred 17 years exclusively for quality and eggs. None better regardless of price. 20 eggs \$1; 50, \$2.50; 100, \$4; 200, \$7. Address ELLA THARP, MT. STERLING, IOWA.

SINGLE COMB

Brown Leghorn eggs, from 75 high-scoring hens mated with six fine five-spiked cockerels. Farm range, 15 for 75c; \$3 per 100. Satisfaction guaranteed. Address EDWARD DOOLEY, SELMA, IOWA.

Single Comb White Leghorns

BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketcham, Box 300, Booneville, Ind.

S. C. Brown Leghorns

Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

S. C. Brown Leghorn Eggs

From State Fair winners. \$1 per 15; \$2 per 50; \$3.75 per 100. Mrs. Will Michael, Selma, Iowa.

Rose Comb

Brown Leghorns exclusively. Eggs for hatching, \$3.50, 100. Also Rouen duck eggs. Write F. Bowman, R. 6, Eldora, Ia.

S. C. B. Leghorn

eggs for hatching, 75c. per 15; at reduced rates on incubator lots. FRED D. FOUSER, Beaconsfield, Ia.

S. C. W. LEGHORNS

The bred-to-lay strain. Pen scoring 94, 15 eggs \$1. Farm flock \$3.50, 100. Geo. Gaul, Tipton, Ia.

Rose Comb

White Leghorn eggs for hatching; 15 for \$1; 30 for \$1.75; or 100 at \$4. Address F. A. HAM, Saronville, Nebraska.

Single Comb

Brown Leghorn eggs from birds scoring 90 to 95; 75c. for 15; \$3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

S. C. W. Leghorn

eggs; first pen headed by chl. direct from Young. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

Single Comb White Leghorns

Eggs, \$1 per 20. M. E. Page, Madrid, Iowa.

Rose Comb Brown Leghorn

Eggs at 75c. per 15 or \$3.50 per 100. Mrs. John Roskamp, Kanawha, Iowa.

Rose Comb

White Leghorn eggs for sale; 26 for \$1.50 or \$4 per 100. Choice stock. Joseph Kappes, Jr., Box 42, Ashton, Iowa.

Very Choice

Eggs for hatching; Rose Comb B. Leghorns; farm range; 50 eggs, \$2.50; 100, \$4. Mrs. Nelson Hyde, Manson, Iowa.

Eggs for Sale

From my pure-bred Rose Comb Brown Leghorns, \$3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

EGGS

From high-scoring S. C. W. Leghorns; choice exhibition matings; also W. Cochlin bantams. Circular free. C. H. Drake, Hazleton, Ia.

S. C. W. Leghorn

Wycoff strain of eggs, \$1 and \$2 per 15. Day old chicks. Send for circular. Mrs. Wilson McIntyre, Red Oak, Iowa. Route 6.

S. C. Brown Leghorns

Pure stock; eggs, \$1 per 15; \$1.50 per 30; \$4 per 100. Address Mrs. A. Goode, Russell, Iowa.

R. C. W. L. Elephant

strain; Seattle, 1 1st; Ia. State, 2 1sts, 3 2ds. state cup. Range eggs, 65c; pen 165c. Rogers Ranch, Pleasanton, Ia.

SINGLE COMB WHITE LEGHORNS.

Eggs, 15 for \$1.25, \$5 per 100. S. C. Rhode Island Red eggs, 15 for \$1.50. Star Poultry Farm, Eddyville, Ia.

ROSE COMB BROWN LEGHORN EGGS

At 50c per 15 or \$3 per 100; PLOWMAN BROS., Donds Leando, Iowa.

S. C. B.

Leghorn eggs, pure bred, farm range; \$3.25 per 100; Pekin ducks, 75c. for 13. MRS. H. C. LAMBERT, ANTHON, IOWA.

ROSE COMB BROWN LEGHORN EGGS

At \$1 per sitting or \$4 per 100. Address JOHN C. MILLER, HARLAN, IA.

DUCKS.

INDIAN Runner ducks; imported stock. Orders hooked for eggs at \$2 per 15. Pure fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

Indian Runner Duck Eggs

13 for \$1; 50 for \$3.50; 100, \$6. Satisfaction guaranteed. Address T. P. Overton, Tracy, Iowa.

Rouen Duck Eggs From Choice Stock

12 for \$1. Address Mrs. C. S. Darling, Lytton, Iowa.

BABY CHICKS.

BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

Baby Chicks

S. C. W. Leghorns a specialty. In shipments, 25 or more. Orders filled in rotation. Highland Poultry Farm, Hazleton, Ia.

MONTANA

CUT THIS OUT AND SEND TO US

.....1910.

M. A. Strang Land Co.,
Great Falls, Mont.
Gentlemen:

Please send me your list of deeded lands, illustrated folder about Cascade county, and Free Fare Coupon. I am interested in Montana.

Name

Town

R. F. D. State

Cascade county has the most productive soil in Montana. Prices at present are very low.

I. H.

I SHOW YOU

MISSOURI SEED CORN

I OFFER 300 bushels Silver Mine, 40 bushels Early Iowa Silver Mine, 80 bushels St. Charles White, at \$1 per bushel. Corn sold in the ear in sacks free. Guaranteed to be extra strong in vitality. Joseph R. Miller, Rock Port, Atchison County, Mo.

RHODE ISLAND REDS.

S. C. Rhode Island Reds

TOMPkins' strain. America's finest. Large, long-bodied, vigorous birds. Bred to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$3 per 100. Circular free.

R. H. DE VAULT, BLOOMFIELD, IOWA.

REDS—BOTH COMBS—GREAT EGG RECORD

10 CENTS for color lesson, illustrated by feathers. How to mate for best results. Who are fake advertisers. Egg catalog free. Foundation stock from the best eastern and southern strains. Mrs. F. W. McIntyre, R. 5, Red Oak, Iowa.

Reds—Single and Rose Comb

CHARLES City, 1910; Shanklin, judge. S. C. won first, second pullet, second cockerel, second pen; 4 premiums on 6 entries. Scored range stock eggs, \$5 per 100. Choice matings, \$2, \$3 and \$5 per 15. Guaranteed good hatch. F. O. Martin, Floyd, Iowa.

S. C. Rhode Island Reds

TOMPkins STRAIN
Write for egg circular.
P. H. Thiel, Renwick, Humboldt Co., Iowa.

ENGLISH RED CAPS

Eggs \$2 per sitting. Pen all prize winners, headed by the highest-scoring cockerel at the Corn Belt Poultry. Non-sitters. Silver Spangled Hamburgs, \$2 per sitting from prize winners. Have orders booked until May 1st. Book orders now. WOLF & JUNGEL, TITONKA, IOWA.

Rose Comb Cherry Reds

20th Century birds, selected eggs (fertility guaranteed), from high-scoring, good-laying strains. Farm range, 17 eggs, \$2; 50, \$5; 100, \$3. This ad. mailed with order brings 5 additional eggs. My birds better than ever. Orders filled promptly. Write for circular. W. W. Forbes, Box 710, Jefferson, Iowa.

R. C. Rhode Island Reds

EXCLUSIVELY. Eggs for hatching from stock scoring 90 to 94%. Write for prices and show record. H. S. Fain, Emmetsburg, Iowa.

THOROUGHbred

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Eggs

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EGGS

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Thirty choice White Wyandotte hens, \$1 each.

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WHITE Wyandottes of quality. This proves it.

Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank. J. M. Erichson, Slater, Ia.

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White, Buff, Golden, S. Laced eggs, 15, \$1.50; 30, \$2.50; 50, \$3.50; 100, \$6. A. L. Anderson, Indianola, Iowa.

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Extra good birds, true to type farm range, bred from birds scoring 92 to 95%; satisfaction guaranteed. Eggs, \$1 per 15; \$2.50 for 50. Carl J. Hedberg, Boxholm, Ia.

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S. L. Wyandotte eggs for hatching, \$4 per 100, or 65 cents per 15. Write to CHAS. W. FARIS, IOWA FALLS, IOWA.

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Wyandotte eggs for sale, from good birds. Prices reasonable. Write for circulars. S. R. Young, Greenville, Iowa.

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Illinois state winners; eggs, \$1.50 and \$3 per 15. J. S. WATSON, VAIL, IOWA.

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At half price, from high-scoring stock. Mrs. W. F. Prather, R. 6, Atlantic, Iowa.

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Fine shape and solid buff birds scoring from 92 to 94%, \$1.50 per 15. E. K. Morris, Montezuma, Ia.

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POULTRY YARDS; Light Brahmans won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

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Eggs for hatching; 30 for \$1.25; 50 for \$2; 100 for \$3.25. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

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Eggs, \$1 per 15; all unfertile eggs replaced at half price. Stock for sale. H. F. Moffitt, Afton, Iowa.

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S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility results and highest fancy attainment. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

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VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

ACCLIMATING HORSES.

I have a team of young mares, black and bay, four and three years old. They are perfectly healthy so far as we know. The black will foal the latter part of this month. I wish to know whether or not this team will acclimate in a valley about forty miles southwest of Billings at an altitude of very near 3,000 feet, this valley being in the state of Montana. Also, what does the law of Montana demand in regard to the conditions of horses and cattle? If my plan is advisable I would take them out in September and use them very little.

The horse will acclimate in time, but will be likely to suffer from acclimation fever if turned out and allowed to drink surface water. Take home feed along and use it as a part ration at first, gradually accustoming the horses to the foods raised in their new quarters. For regulations as to live stock apply to the secretary of state of Montana.

ROARING.

I have a trotting colt that will be three years old next June. I drove him a little last year and he seemed perfect, but last October he got the distemper by starting to run at the nose. A large bunch formed in his breast and he seemed to be very sore all through the breast. He did not lie down for about three weeks. The swelling did not burst and it was about two months before it disappeared. This spring when I started to drive him there is a roaring sound when he is put to a trot. It seems as if his throat is not clear. Have been feeding ground oats and barley and wild hay. Can you suggest a remedy?

The attack of distemper has ended in paralysis of the vocal cord and cartilages of the larynx and this will prove incurable. Roaring is the result. In a few cases a difficult and expensive operation for the removal of the paralyzed parts succeeds. An expert can do the operation, but it does not always prove successful.

FOOD FOR MARES.

Please inform me through your paper the best feed for a mare to produce milk, also the best method of raising a colt by hand.

Feed the mare green grass as the best food for milk production and add oats and bran and feed mixed or clover hay, if grass is short. A foal may be raised on cow's milk if the latter is sweetened with sugar or molasses at the rate of two teaspoonfuls per pint and three tablespoonfuls of lime water are added at first. Give a cupful every hour at first and gradually increase amount and decrease meals to six and then to four feeds a day. In two months or so some sweet skimmilk may form part of the ration and at three months skimmilk may be given freely and the foal should be eating crushed, screened oats, bran and hay or grass.

FAILING HORSES.

I have a gelding, six years old, and a mare, eight years old, both bay. They were in very good shape when I started my farm work, but they have been gradually falling off in flesh. I feed a reasonable ration of corn and No. 1 good hay, and they eat heartily. Will you please tell me what to do for them?

Substitute oats and bran for corn at the morning and night meals and allow a few ears of corn at noon. Give the drinking water before feeding. Have their teeth put in order if oats pass whole in the manure.

CANKER.

Would you tell me through your paper what ails my little pigs, and is there any cure or preventive for it? They were spayed the first day after birth and then commenced looking drowsy. Their limbs swell up and a yellowish substance runs from the mouth. On the side of the mouth are little sores. They die at the rate of three or four a day and just before they die they have spasms. I fed my sows corn and oats during the winter and they are in good condition and have had plenty of exercise.

The pigs have canker sores from the bacillus necrophorus. At birth sponge the head with a saturated solution of boric acid. At present stage scrape each ulcer and paint with a one-seventh solution of nitric acid or

lightly rub with lunar caustic pencil. Afterward twice daily swab with a 5 per cent solution of permanganate of potash. Cleanse, disinfect and white-wash the pens. Do not feed corn to the nursing sows.

PYAEMIA.

I have some sick calves and would like to get advice through your paper. The symptoms are as follows: Lack of appetite, very bad cough, and they rub their throats as if they were sore. They have the scours and on some of them the navel swells and discharges matter a few days before they die. They have been affected with the disease from one to eight weeks old and die in from three to four weeks from the time they take sick.

This disease is due to infection of the navel at birth. It is preventable, but rarely curable. To prevent, have cow calve in a perfectly clean place and wet the calf's navel cord at once with a 1-500 solution of corrosive sublimate when it has been tied or severed and repeat the application twice a day until the navel is completely healed. Put calves into a sunny, well-ventilated, clean, disinfected and white-washed box stall at birth and see that the bedding is perfectly clean and fresh. Isolate any calf that scours.

LAMENESS.

Will you kindly tell me what to do for my horse? He has been slightly lame in his right fore foot for six months. I use him every day and yesterday he became very lame, but is a little better today. His leg and foot are seemingly all right, no fever or swelling noticeable. I took him to a veterinarian about a month ago, who blistered above the hoof and gave me a liniment, but he got no better. He travels very well, but stumbles now and then.

We are unable to diagnose mysterious cases of lameness without a personal examination and so it will be necessary to have the veterinarian, or another one, see the horse again. It may be navicular disease and that would require unnerving.

BROKEN WIND.

I have a black mare twelve years old that is wind broken. She had distemper when she was a colt and since then it is hard for her to breathe. It is worse when she is eating grain. It is as if she were snoring and a sort of rattling sound comes from her nostrils. I am feeding timothy hay and oats and sometimes a little bran. She is not in very good flesh.

Such conditions usually are incurable. Wet all food. Give half an ounce of Fowler's solution of arsenic night and morning. It may be that there is a polypus (tumor) in one of her nostrils and that might be removed by operation. Sometimes a blister applied from ear to ear helps such conditions. Cerate of cantharides would be suitable as a blister.

LAME MARE.

I have a valuable mare, six years old and high lived, that became very lame about last July while summer fallowing. She was so lame that at times she could not let her left hind foot touch the ground, and again it seemed as though nothing was wrong with her at all. Sometimes she will travel and work all right and all of a sudden she becomes lame and you would think her worthless. While lame she looks a little low on the hip when standing, and shows a slight hollow down the hip. She is in excellent condition all the time, her appetite is fine and she has a good stable and good care. I can't tell how it happened; she takes these lame spells while idle for a week. I have several times started to the veterinarian with her, but she always acted all right by the time I got there. What would you recommend me to do?

In such cases plugging of the large artery of the hind leg (iliac) may be the cause of the lameness. This is known as "embolism" and is incurable. A veterinarian could make the diagnosis successfully by examination of the vagina. If it is not embolism we suspect that the patella may slip out of place (stifle joint) and at such times the hind leg would be thrust backward and the hock joint be nearly straight. For that blistering of the stifle would be indicated. It will be necessary to employ the veterinarian.

AILING HORSE.

I have a horse that had the distemper in March. He seems to feel good

otherwise, but has a bad cough and it seems difficult for him to breathe. I feed him a conditioner and he is in good flesh and is fifteen years old. There is no veterinarian around in this neighborhood, so I will be very much obliged for a remedy or cure if you know of any.

Give him an ounce of glyco-heroin three times a day. Wet all food. A run on grass would be beneficial. If cough continues clip hair from throat and blister from ear to ear with cerate of cantharides.

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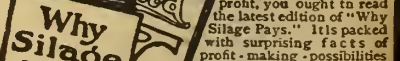
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WHISTLE.

If there's trouble on your mind,
Whistle.

If to weep you are inclined,
Whistle.

If a rock falls on your toe,
Or a boil begins to grow,
Don't scowl around in woe,
Whistle.

If your love is laughed to scorn,
Whistle.

If a man steps on your corn,
Whistle.

If your seed corn fails to grow,
Or your apple trees don't blow,
Or your cake is mostly dough,
Whistle.

When the sun is shining bright,
Whistle.

If the bugs should bite at night,
Whistle.

When the weather gets too dry,
Or the rain pours from the sky,
Don't howl around and cry,
Whistle.

It all depends on what "school" the doctor belongs to. One will "reduce the fracture," another will "set the bone," another "reunite the osseous tissues," when along comes another and simply "pulls the leg."

This has been a beautiful spring. I have had fourteen invitations to take out accident insurance, one to go "hang myself," 415 to vote for sheriff, seven to pay a grocery bill, one to "come out in the back yard," but no one has asked me to take a pleasant afternoon ride in an automobile.

WHEN A FARMER MOVES.

Nothing looks more cheerful than a farmer who has sold out everything he has got and is getting his family into a car to move to some other state, except the farmer and his family when they get back after a year's trial and tribulation in some state where they knew little of the methods of farming in that state, and have raised nothing but a baby and the banner of distress.

It is pleasant to see them buckle in and raise a crop near the old home where they know all about the ways and means of farming better than any one can tell them. They know the phases of the weather and every contingent good or bad that threatens or assists in the raising and gathering of a paying crop.

A farmer doesn't get his knowledge in a day; he learns all his life and if asked could not tell where or when he got it. It is a matter of observation and of years. A few hundred miles makes a wide difference in farming methods and chances of success in farming.

And who can lead a more happy life Than he who with clean mind and heart sincere No greedy riches knows or bloody strife?

Seeking An Office.

What a mistake some office-seekers make in not being polite and trying to look sweet several years before they happen to want an office. We know an old curmudgeon who now wants an office and wants it bad, who never had a good word to say of any one, or of any thing, who never saw a good quality in a man or failed to see a bad one, who always looked like an old scowl on the war path, and you ought to see him now when he attempts to smile and it actually warps his face. He speaks in such a low, musical tone that you would think him fishing for the wariest trout. He even wears a clean collar and often blackens his shoes, and has a habit of shutting one eye looking wise when he spits.

If he is elected this will all end and he will be as morose as an old sow with ten pigs and as contrary as a hired girl with the mumps. That air of wisdom will evaporate and he will get back that air of pessimism of all former years. He says his chances look good. We tell him we are glad of it, as our sympathies are all with the

other fellow, anyhow, and that we would hate to "tread on a man when he is down."

Educated Flies.

Flies are nuisances, but are very sociable. A plebeian fly will kiss the foot of a beggar with impudence and without washing its face will then kiss the lips of a queen without waiting for an introduction. There is no such thing as teaching a fly that there is such a thing as difference in rank—they just treat all alike. A fly on a bald head is always interesting to everybody except the bald-headed man.

If fleas and frogs and roosters can be educated, why can't flies? Did any one ever try it? If some one will start a school for the education of flies and make a success of it there is a fortune in it for him. I would like to own a bushel of large flies that were educated so I could control and guide them and have the privilege of turning them loose where I want to and tell them what to do.

When I saw a man come into town with a boy and turn the boy loose on the street and then go to a restaurant himself for his dinner, I'd just turn a fly loose and tell him to pop that man on the nose 300 times until he drove him out on the pavement and made him dance the devil's hornpipe.

When the man comes in town who has money to buy smoking tobacco

and can't get his little girl a doll that she is crying for, I'd send a fly after him with orders to get in his ear and stay there an hour. I'd make him go some.

When the fellow starts on a high lonesome on Saturday night spending the money he ought to save for the comfort of his family, I'd send more flies, and tell them to pop him until he went home and see that he went clear there, too.

I'd take a lot of them to the lecture, and when the fellow began to whisper to his best girl I'd tell it to sock him one on the kisser for me and I'd crack another one to the lecturer, too, if he tried to get off any old ones on the crowd.

I'd have a whole lot of them hit the fellow who cracks peanuts while the man is talking, too.

Then I would send some to pop the giggling girl on both ears and lift the boy with the shrill whistle, and once in awhile I would turn some loose in the mayor's office, and on the school board, and have one tickle the ears of a teacher once in awhile, and the preacher would get a nip occasionally, and then I would pray that no one else in town would get any educated flies for fear they would bite me, too, some day.

The Mud Turtle.

The mud turtle is built all right, but he doesn't show it, for when you want to kick a turtle to make him go faster you don't know which end to kick. When a turtle goes to bed he just crawls into himself and carries his house on his back. The turtle is built a good deal like a bedbug, but is larger, that is some turtles are, but the bug holds over the turtle in celerity. It is probable that the turtle can think just as fast as the bug,

but he can't reduce thought to speed and get any results.

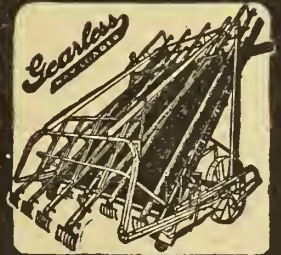
Turtles are not good for much except to catch young ducks, but when they are shipped away down East as far as Philadelphia, they then become terrapin and then they will bring all that you ask for them. A barrel of mud turtles is worth \$40 when they become terrapin.

A turtle can't go very fast, but he keeps moving, although he can't prove it. When you see a turtle with a leg under each corner of him, you know he is either coming or going, but it requires some punching to decide which. I love to see a dog investigate a snapping turtle to find out which end its head is on. There is no case on record where the dog failed to find out. When they get hold of anything they hold on like an officeholder to a third term.

Turn a turtle around and he doesn't care. He was merely going somewhere, anyway, and it makes no difference to him where. Turtles are far easier to satisfy in this respect than the office-seeker. There are other characteristics that are common to both the turtle and the office-seeker. You beat a turtle and he will crawl into his shell; so will an office-seeker, but the turtle won't crawl out long enough to want to tell how it happened.

After a turtle runs awhile he will lie in the sun. After an office-seeker runs awhile he will lie anywhere. When a turtle lies as long as he wants to he looks up a good place to alight and then drops "kaplunky." So does an office-seeker. The turtle comes up again when he wants to croak and here the simile is perfect again. But turtles frequently get into cold water, while the office-seeker gets into hot water oftener than any other kind.

When you buy a Hay Loader, don't buy trouble



Most makes of Hay Loaders are like unreliable horses that "go lame" during the busy season; they are like men who get sick when they are worked hard.

The one Hay Loader that is always ready for a hard day's work, no matter how hard it was worked the day before is the *Searless*.

Just study the simple construction of the *Searless*, and compare it with the cylinder and other rake bar loaders with gears. You will find that the *Searless* is a machine that will never get out of order while the "kind with gears" are full of troublesome parts.

The *Searless* hasn't a gear about it while all the others have gears to break, clog up, cause frequent delays and consume power.

The *Searless* hasn't a chain nor a sprocket, while others have chains and sprockets which break, "run off" and cause frequent delays.

The *Searless* has a long, natural stroke, same as the hand rake, while other rake bar loaders have short pounding strokes that pound the machine to pieces.

The *Searless* loads a higher load than any other and can be operated by one man (the driver) while others require two men.

The *Searless* will pick up and load windrows which cannot be handled by other machines.

The *Searless* will load Hay, Clover and Alfalfa without threshing out the seed or tearing off the leaves as others do.

The very simple mechanism of the *Searless* makes it much lighter on the horses than others.

The *Searless* will do all that a cylinder loader will do and hasn't one of its many troublesome parts.

Point for point, the *Searless* excels every loader on the market, and with its strong and simple construction it will outwear several of other makes.

Let us send you our *Searless* Booklet. It will interest you. Write us today. A postal will do.

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THE KIND WITH GEARS



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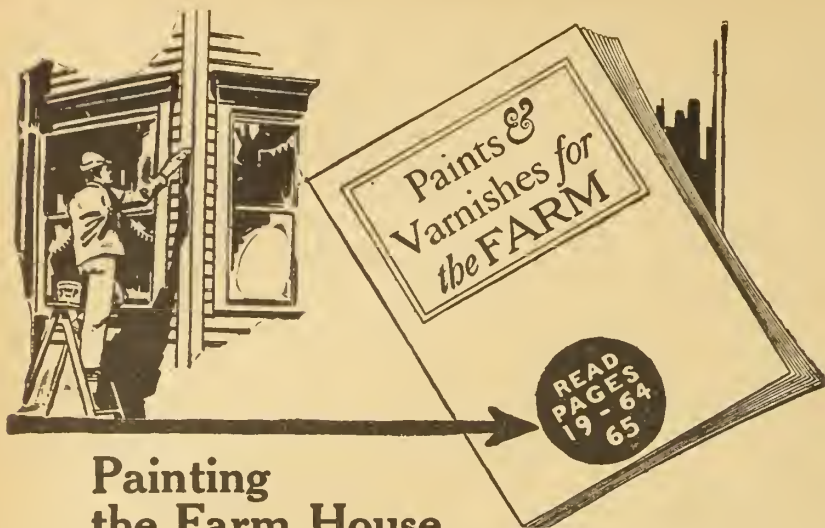


THE KIND WITH GEARS



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WITH THE EDITOR.

Late spring and early summer see a host of young people graduated from the schools of the country. Many of these young people have only the haziest idea of what is to come next. They face the future eagerly, doubtfully, or indifferently, as the case may be. Much of this is owing to the fact that the present school curriculum does not definitely fit boys and girls for life.

Fortunately for the coming generation educators are beginning to realize that the old conventional course of study followed in the public schools stands in need of improvement. The new word is that the schools shall fit our young people for some chosen trade or profession.

In Kansas, this new movement has become a definite thing. There is a positive demand that the high schools shall fit boys and girls for life, instead of for college where only a very small part go. Kansas is a live state where education is appreciated and people are eager to give their children advantages, yet even there but 4 per cent attend college. The utter foolishness of running the schools for this 4 per cent at the cost of the other 96 is so apparent that the wonder is people have been a party to it for so long.

The plan which is contemplated is that if a pupil shows an aptitude for a certain calling he or she shall be developed along that line. Manual training and business courses have already been introduced in a few schools, they are to become general and agriculture is being considered. The indications are that before long the entire school system will be re-modeled and made to conform to modern and practical lines.

All of this should be good news to the public. No one thing is more vital to the well being of a republic than the schools of the country. And there should be a determination on the part of people living remote from the large centers that their children shall not be overlooked. Country schools have not improved proportionately as compared with those of town and city. This should be remedied. And the sooner the better.

From school to college is but a step. Many a young man is graduated from high school with a desire to "go on," but where, or to what, he has no definite idea. If he came from the farm the chances are that he thinks vaguely of law or medicine, occasionally of the ministry. Unless he has pronounced ability of a special character and money to enable him to wait for a practice he might better think of a business college course or some time at the state agricultural college. Both of these offer opportunities for the average youth to receive training which will bring monetary returns much more rapidly than university returns and open the doors to an equally rich life.

"As you approach the Grand Central Station in New York, you can see the blank wall of a certain building upon which is a picture of the Hon. Geo. B. Cortelyou. Beneath the picture is the legend in gigantic letters, 'From a business college to the White House.' No one doubts Cortelyou's value to the world. No one doubts that his value lies in his being a business man."

Lyman Gage, ex-secretary of the treasury, himself a graduate of a business college, says that one of the most helpful signs of the times is the growing recognition of the value of business college training. Years ago it would have been thought folly for a young farmer to take a business college course unless he intended to forsake the farm. All this is changed. The successful farmer nowadays is a business man. He knows how much his crops cost per acre. He

knows what it costs to fatten his cattle for market. He knows what his cows cost and the income they yield. In a word he estimates expenses that he may estimate profit and loss. The farm is a business institution and its head a man who is benefited by business training.

Valuable as is business college training to a young farmer it is probably less useful than that gained at a state agricultural college. These institutions with their experiment stations, their practical professors, their system of studying and balancing the cost of production—whether it be of eggs, milk, grain, stock, or what not—and the selling price are making farming a scientific profession which appeals to young men, ambitious to do things and make a success.

Old-fashioned farming just escaped being drudgery in many cases and has been drudgery in very many more. Modern methods are changing this. Machinery has done much. Training is doing much. And between the two farming is appealing to an increasingly large number of the sons of the farm and also to a multitude of people in town who are weary of working as wage earners and finding themselves at the year's end with nothing to the good.

The farmer who wants to keep his sons on the farm can do nothing better than send them off to the agricultural college unless it be at the same time to resolve to give the young man a free hand upon his return.

HOME AND HOME MAKING.

O God! that men might draw a little nearer
Or judge less harshly when they cannot see.
O God! that men would see a little clearer
One the other. They'd then be nearer thee,
And understand.

—Anon.

As the sun lightens the world, so let our loving-kindness make bright this home of our habitation.—R. L. Stevenson.

SUNLIGHT AND STARLIGHT.

God sets some souls in shade alone;
They have no daylight of their own;
Only in lives of happier ones
They see the shine of distant suns.

God knows. Content thee with thy night;
Thy greater heaven hath grander light—
Today is close; the hours are small;
Thou sit'st afar, and hast them all.

Lose the less joy doth but blind;
Reach forth a larger bliss to find.
Today is brief; the inclusive spheres
Rain raptures of a thousand years.

—A. D. T. Whitney.

WHAT PAIN MEANS.

The problem of pain continually perplexes every life. The insatiable desire to understand the reason of things demands an explanation of why God's creatures suffer. Nature cannot explain it. Mere human philosophy cannot solve it. Only divine revelation can aid us.

In the widest generalization it is always the penalty of broken law. To the wicked it is punishment. To the child of God it is the chastisement of a loving Father, through which a "far more exceeding and eternal weight of glory" may be attained. Therefore, it makes all the difference in the world how we are related to God. Is He your Father or your Judge?—Christian Observer.

MEATLESS RECIPES.

Fruited Cereals.—Rice boiled or steamed with raisins and ground mixed nuts. Rice with raisins and blanched almonds. The almonds are not ground, but broken in half lengthwise. Rice, dried currants and pecan nuts. The pecans should be boiled fifteen minutes before added to the rice and currants and then should cook the twenty minutes needed to cook the rice.

Vegetable Roast.—Two cups of lentil or bean pulp—made by boiling lentils or beans and running them through a colander to remove the skins—one cup strained tomatoes, two eggs, two cups nut-meal, one-half cup browned flour, a small onion, minced fine, one-quarter cup of cream; season with celery salt and sage; mix, put into oiled tin and bake in quick oven.

Nut Loaf.—Three cups crackers, fine; three and one-half cups of milk and water; two eggs, well beaten; one cup

of nut meats; three-fourths cup mixed ground nuts. Salt to taste.

STORIES OF LITTLE BOYS AND GIRLS.

Our little William, aged four, is very fond of cheese. One day he heard his mother speaking about fishing for drowned persons and he instantly said: "Mother, if I get drowned, you won't have any trouble fishing me out, if you bait the line with cheese."

Nurse—"Dorothy, dear, don't you want to come and see the sweet little sister a stork brought you?"

Dorothy—"No, I want to see the stork."

The little girl came home from school in the middle of the forenoon in a high state of excitement.

"What is the matter, dear?" asked her mother.

"Jimmy Treadway scared me."

"How?"

"Why, he's been having the mumps, and he's got some of 'em left, and when I wouldn't give him a bite of my apple he said he was going to take a mump out of his pocket and throw it at me!"

AMONG OURSELVES.

A message from "Undecided" in whom we have all been so interested will be appreciated by the circle, I doubt not:

Dear Friends:—I read with interest the letters of advice given me. And I appreciate them. It is no doubt of interest to know which way I decide, and why. I am going to let him read the letters also. I am so old now that my school days are over and I don't think I will regret leaving my girlhood, but I am sorry to displease my mother. If I decide to marry (as I think I will) it will be for love, because love feels no burden, thinks nothing of trouble, attempts what is above its strength, pleads no excuse of impossibilities, for it thinks all things lawful for itself and all things possible. I will write another letter when I have definitely decided.

Of course we shall want to know when "Undecided" changes her name to "Decided" and we shall all hope very earnestly that in making her decision she will be guided by sanctified common sense as well as the voice of her affections. Personally, I hope she read last week's "With the Editor." I had the feeling when preparing that editorial that if read, marked, learned and inwardly digested it should serve to help the young people of this home to wise decision in the serious matter of choosing their mate.

While we are thinking along this line let us listen to a few words from "Experienced," whose words are wise:

In all the discussion in regard to happiness in marriage, one requisite has not been mentioned, which seems to me to be more important than any other. That is, a common standard of wrong and right. A different liking for amusements, even a difference in religious belief, may be harmoniously adjusted, by the exercise of common sense and a just regard for another's rights. But never will it be possible to live in harmony when one is continually doing what the other regards as morally wrong. And when there are children, think of the constant misery of fearing that they will be taught wrong standards of conduct by the father or mother. I have known such cases, but never have I known it possible for such to live together with any degree of happiness.

St. Paul's "How can two walk together except they be agreed?" fits in here. Marriage is such a close bond that if the two who wear the yoke are not agreed there is, as "Experienced" points out, bound to be trouble.

Some interesting responses have come to "Peggy D.'s" question. We shall have a few of them today and continue them next week. An Oklahoma Wife has faith in Solomon, it will be seen:

I have been an interested reader of "Among Ourselves." May I speak a few words, too? Peggy D., I have heard the same expression in regard to little ones, but it does not trouble me in the least. Yes, "Enjoy your babies now," and enjoy them as long as you live; that is a parent's heritage. The dear old Book says, "Bring up a child in the way it should go and when it is old it will not depart from it," and there our faith should rest. We should be kind, but firm, and teach them that our future happiness, as well as theirs, depends on their strict obedience. Be a girl with your girls, share their joys and sorrows and show them you always love them dearly and are interested in their girlish interests, no difference how trifling they appear; never tell them a falsehood, no matter how small, and you will keep their confidence, and they will come to mama with everything—even their love affairs.

It surely depends a good deal on the mother whether her pleasure in her children is short-lived or no, and what "Oklahoma Wife" says about

establishing close relations on an absolutely truthful basis is well said.

Amanda Augustine enjoys her daughter, who is no longer a child, and cannot see why other mothers should not do the same:

On reading "Peggy D.'s" letter I was moved to write what I think about the comfort one can have with a daughter when grown. I was surprised at her saying that older mothers find their daughters a trouble and a care. Surely they are not brought up right. I never was very strict or so very particular with my girl, still she is a nice, sensible girl and we have the nicest times together. I prefer her company to all others and we have many nice neighbors and friends whom we associate with. Don't get discouraged, Peggy D., for I know that you will enjoy your daughters when they are grown. Of course little girls are cute and all that, but give me the grown daughter.

Where mother and daughter are like sisters there is joy for the mother and a wonderful safeguard for the girl. What a pity that all mothers do not realize this and definitely strive to keep their daughters close to them!

We are to have pleasure in the replies to "E. E. G." "Weatherford's" message should reach older persons, those who make conditions, as well as the young who must meet them:

"Among Ourselves" I read always with great interest, for we can always learn so much, comparing other people's ideas with our own. To "E. E. G." I will say, enjoy your youth while you are young. There is no reason why you should shun the young girls and boys in your neighborhood. Because they attend dances is no reason if they are otherwise moral and respectable. If you conduct yourself properly, enjoy all the innocent pleasures you have a chance, this is youth's right, but not contrary to your parents' wishes. Show them and convince them that you are a young lady anywhere you go; that you conduct yourself well when they let you go to parties and gatherings, then they will not oppose it. As to dancing, if your conscience will not allow you to attend dances, do not do so, but to think others lower because they do so is wrong. I have always enjoyed and attended dances and if one knows how to behave there is no more harm in this than any other pleasure, especially in the country where you know all the young folks. Dance halls of doubtful character are to be avoided; they are no place for a respectable young woman, or man for that matter. Now, a few words to parents who deny innocent pleasures to their sons and daughters. Let your sons and daughters have all innocent pleasures. Youth is entitled to this; you have no right to rob them of it. But raise them so they can control themselves and then they can without danger go anywhere. When you are their trustful friend, which you should be, they will have no secret to keep from you and tell to others. You, who deny pleasure to youngsters rob them of their greatest right; they think back on you with bitterness, however good the home was. They marry too young to get liberty; it proves a failure; they get discontented, cranky, hate themselves and all the world. On the other hand, give them a joyful youth with plenty of pleasures, as well as work. Let them marry when grown and you will have a family that smiles at the world, being happy and satisfied. And one overcomes trouble better when one can dwell in memory on pleasant bygone days.

The point that sons and daughters who are too much restrained at home marry young in order to secure liberty is well made. Also that attending dances does not make moral young people undesirable. There is a tendency among a certain class of church members to place undue importance upon this question of amusements. We should bear well in mind that while we may make rules for ourselves we may not bind them upon others. Next week we shall have another communication in reply to "E. E. G." and perhaps two.

I expected a sheaf of letters on the position of the housemother whose "strike" we heard about recently, but so far only "Cousin Sallie" rises to make comment:

To the housekeeper who inaugurated the strike we would give our hearty sanction. But why did she not tell us how she spent the half hour? Years ago I formed the habit of allowing myself a little while as near the sunset hour as possible to sit by the west window reading, retrospecting or writing in a journal of the day's events that we enjoy looking over in after months. If there are small children in the home, by all means give them some special hour which may be used in outdoor amusements or reading to them or telling the ever-enjoyed stories. The day's work and evening chores seem to adjust themselves around the half hour until we do not miss the time. How would it be to formulate some special study or subject "Among Ourselves" and someone report the prog-

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As soon as they are baked they are placed in moisture-proof packages. In this way they are kept free from dust, damp and other harmful conditions.

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COIL CENTER
HARD DRAWN PURE COPPER

The coil center gives greater surface therefore greater conductivity, consequently affording ample protection. If your home or outbuildings are rodded with Elwood rods, your insurance rates will be less. We use the same Hard Drawn Copper wire as used by electric light, telegraph and telephone companies. None better. Hon. S. M. Elwood says: "I have been engaged in the manufacture of Lightning Rods for over 23 years and I consider my Coil Center Hard Drawn Pure Copper Cable Lightning Rod the best Lightning Rod manufactured." We want dealers in places where we are not represented. Write today for our best dealers' proposition.

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All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

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These plows are used in every state in the Union. Strong, durable; all attachments interchangeable. Ask your dealer or write Hartley Mfg. Co. Hartley, Iowa.

Beats All GARDEN PLOW

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Did you ever notice how much time two men could lose going to the field to load a high wagon—one waiting on the other? One man with a Low-Down Handy Wagon would have the load half on before the two men got started. Get our free catalogue.

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WANTED—A Married Man
WITH small family who is a good hog raiser and cattle feeder and handy with tools; good wages and steady employment to competent man. Address T. S. CARTWRIGHT, Marshalltown, Iowa.

ress to the Home Department occasionally to show how we utilized "our own half hour?"

That suggestion that we have reports is a good one. We might begin quite informally by hearing what those do who take a half hour for themselves any time during the day. Later if numbers justified it we might agree to do some two or three things and compare our doings. I can see great possibilities in this suggestion and shall be pleased if it commend itself to the circle.

A belated message for "G. H." reaches us from Mrs. Parkersburg:

I come in response to G. H., not with a suggestion as to the wisest course to pursue under his present circumstances, but to offer a few consoling thoughts based upon our faith in a Creator. This Creator has given to man a masculine mind and spirit, to woman a feminine mind and spirit, and the life of neither is complete alone. Any man who performs the duties of life in the conscientious manner which G. H. describes, particularly his duties as husband and father, finds favor in the eyes of his Maker and may confidently hope thus: "In spirit life I shall have united with my own being a congenial spirit the perfect complement of my own. In that union will be perfect harmony which change can never mar." Time is short; eternity is long. Why it so often occurs in this life that the heart is wrung and the hand well nigh palsied by unhappy circumstances we cannot understand, but we have the command, "Set your affections on things above," and the assurance that "it hath not entered into the heart of any man the things that God hath prepared for them that love Him."

Strength to bear daily burdens is found in going apart and quietly considering such thought as Mrs. Parkersburg brings. It is surprising how much can be borne without discomfort when the spirit is poised. Little worries and annoyances seem to lose their power, do lose their poignancy when we hold ourselves above them and claim the right to dwell in peace.

DRESSMAKING—No. 76.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

The short tunic is one that is well liked and is apt to be very generally becoming. This one forms points at the sides that mean graceful lines and is combined with a plaited skirt. There are full length gores at the front and back, however, which give an effect of length and the skirt is altogether one of the best that has appeared. It will be found perfectly well adapted to all seasonable materials, for it suits serge, Panama cloth and all the suitings of the spring. It would be exceedingly



[6610 Eight-Gored Plaited Skirt With Tunic, 22 to 30 Waist.]

chic made from pongee or from foulard or any similar material, and it suits linen to a nicety. The high waist line is much liked this season for the skirt that is to be worn without a belt, but this one can be cut off and finished with a belt if preferred.

The skirt is made with full length front and back gores and with a smoothly-fitted foundation at the sides to which the plaited portions are attached and over which the pointed tunic is arranged. The closing is made invisibly at the left side of the back. If the natural waist line is desired the

skirt can be cut off and joined to a belt.

The quantity of material required for the medium size is 12½ yards 24, 10½ yards 27, 6½ yards 44 or 6 yards 52 inches wide.

The pattern 6610 is cut in sizes for a 22, 24, 26, 28 and 30 inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

The yoke blouse is always a becoming one, and this model can be made just as illustrated or with a yoke cut from all-over material and with medallions in place of the embroidery or



[6611 Yoke Blouse, 32 to 40 Bust.

with the spaces left plain, or it can be made of the material throughout and the yoke embroidered or braided with some pretty design. It is graceful, it provides becoming fullness and it is practical withal, for it is just as well adapted to thin silk or chiffon and to marquisette as it is to lingerie material. The sleeves can be joined to deep cuffs or to narrow as liked and consequently they can be made either in full or three-quarter length. Mercerized batiste is the material illustrated and the yoke is made of Valenciennes insertion, while the banding is of a heavier lace. Embroidery is worked onto the material in the enclosed spaces, and tucks at the outer edges of the fronts are to be noted in the waists of latest design. They provide just becoming fullness, while leaving the center portion free from trimming. The tucked sleeves are extremely pretty for thin, soft materials and the waist is altogether an attractive one.

The blouse is made with front and back portions and with the yoke. The trimming is applied over the front on indicated lines. The sleeves are in one piece each and gathered at both upper and lower edges.

The quantity of material required for the medium size is 4 yards 21, 3½ yards 27 or 2½ yards 44 inches wide with 3½ yards of lace insertion ½ inch wide for the yoke, 3 yards of narrow banding.

The pattern 6611 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

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will cut tall grass, short grass and weeds, and do all the trimming along the fence, walks and drives.

If your dealers do not keep them, let us know and we will send circulars and prices.

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Soon save their cost. Make every wagon a spring wagon, therefore fruit, vegetables, eggs, etc., bring more money. Ask for special proposition. Harvey Spring Co., 784 17th St., Racine, Wis.

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If she doesn't, you should have no riding plow, manure spreader, or other modern convenience now regarded as a necessity on the farm. You ought to be ashamed of yourself. Go today and buy her an

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This machine is not a hand-power washer with certain attachments added to transform it into a power washer. None of the machinery is fastened to the bottom of the tub, to be drawn out of alignment by warping. The driving belt is on the left side, entirely out of the way. It can be driven by one of the small gasoline engines now so common on the up-to-date farm.

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SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

SECOND QUARTER.

Lesson VII.—Matt. XII., 22-32 and 38-42.

May 15, 1910.

GROWING HATRED TO JESUS.

Through the almost opaque curtain of an obstinate popular misconception the beneficent deeds of Jesus shone so brightly that it came to be commonly said, "After all may not this be the Messiah?" "Certainly we never saw the like of this!" "True he seems not to be a national deliverer in the sense of breaking at once the foreign yoke, but how could anyone more completely ameliorate the condition of the people?" "Cannot this perhaps be the son of David?" "His method may be different from what was expected, but after all may he not be bringing in the kingdom of heaven?" The Pharisaic finger was never off the people's pulse. The authorities of the established church knew how the popular heart was beating. The wet blanket of slander must cool the ardor of the masses. It is quickly applied, and that without compunction. Sleek and smooth-spoken ecclesiastics mix with the people, and while admitting the benevolent deeds of power yet insinuate that they are not to Jesus' credit, but to the contrary, because done by affiliation with the prince of the nether world. Jesus did not hear their words, but he knew the slander they were uttering. His rejoinder is one of the most brilliant pieces of dialectical skill preserved in literature. He points, as was his custom, to current events and conditions. It is as if he had said, "Here for example is the reigning house of Lysanias. If it could be conceived that the sovereign had a double personality and that one pulled down what the other built up, how long would it be before the proud dynasty would bite the dust? So Satan cannot undercut Satan and still stand. Consequently it cannot be by Satanic power that these good deeds are done. Again, how about your own exorcists? Are you ready to say that their good deeds also are done by affiliation with Satan?" They could not so discredit those of their own party, yet they must if they allege the same of Jesus. Instead of being in collusion with Satan, Jesus affirms that he is really his master. The reason he is able to undo his works is because he has already stormed his castle and made him prisoner. This he did in the fiery test of temptation, the moral results of which were the evolution and test of character and an affiliation with God, which put the resources of the universe at his command. Finally, the antagonism between Jesus and Satan is so inveterate and deadly that any agreement or collusion is inconceivable. Instead of being for Jesus, Satan is against him. Instead of co-operating to produce a given result, he bends all his powers to thwart it. Nothing remains of the fallacy now after this keen and correct process of logic. Not another syllable of argument is needed. What Jesus does next is to warn. He says in effect that they may say what they please against him and yet find forgiveness. They have already in their narrow prejudice called him a winebibber, Sabbath-breaker, and blasphemer. Offensive as this is all record of it may easily be erased. But to knowingly and for a set and sinister purpose to persistently ascribe the work of God to that of the devil is to paralyze the power of repentance and consequently, not arbitrarily, make forgiveness impossible. Jesus does not categorically say that the Pharisees had already committed this sin, but he does sound a note of warning, loud, clear, and fearless. They stand narrowly near the unforgivable region. The dead hopelessness of the case appears, when after the wealth of miracles, they still ask another. They shall have their wish. It is the sign of Jonah. He preached to the Ninevites and they repented. The condemnation of this generation is that while a greater than Jonah preaches, they do not repent. Or, for

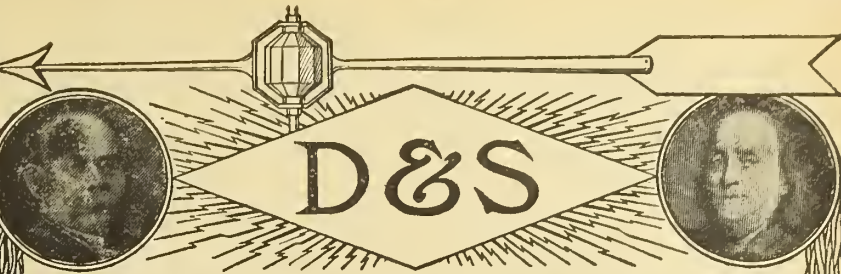
another sign, take the Queen of Sheba. She came from afar to hear Solomon. They needed no journey to hear a diviner wisdom than Solomon's. Yet they would not hear it.

The Teacher's Lantern.

Whole libraries have been written on the sin against the holy spirit. It has been conceived as something specific and arbitrary. Many poor souls have tormented themselves with having inadvertently committed it. A simple and entirely sane view is now maintained, namely, that it is no specific act, but rather a state in which the party is indurated by courses of sin, knowingly persisted in until the spirit of the man is made insusceptible to the spirit of God. It is atrophy of the soul—impenitence becoming incapacity for repentance. Penitent Ninevites rebuking impenitent Israelites was hardly the kind of a sign the Pharisees wanted. Yet 't was really the most wholesome object lesson which could have been held up to them. If they had been sincere they would have heeded and been saved by it. But one rising from the dead would not save those who insincerely asked a sign only that they might use it as a weapon against the wonder-worker. In his reference to Satan, Jesus accepts the popular notion. His words do not necessarily express his personal faith or his approval of the current opinion. No doctrine can be based on this saying. Phillips Brooks once said, "A man cannot do much for others who is not much himself." Jesus proved his strength by first entering the "strong man's house and binding him." To gather with Jesus what he gathers, and in his way, is to engage in the noblest work of men or angels. It is the garnering not of material substances however valuable, but of the most precious thing in the world. It is harvesting not wheat, but men. On the contrary, to dissipate moral influences and make them non-effective is dastardly business—devil's work. A reputed half-wit once stood in a field and would not heed the signal for dinner. When expostulated with for his delay, he pointed to a crack in the sun-baked earth, and said: "The earth is going to split in two. I was waiting to see which was the biggest half so that I could jump on it." Under Solon's law he who remained neutral when tumult arose, waiting to see which party prevailed, was punished as a rebel on the restoration of order. Queen of Sheba and the Ninevites will be the judges of the Israelites who affected to despise them as heathen. Greater opportunities made greater guilt. "Make the tree good." "Be honest for once. Say that the tree is good and its fruit good or the tree evil and its fruit evil. I am the tree and here are the fruits which according to your damaging concessions are good. If my works are good then admit that I am good, and do not say that I am in league with the devil."

This story is told on "Bill" Fisher, the Holton, Kansas, auctioneer: He had bought a team, and one of the horses was totally blind. He took the first opportunity to get rid of them. The man who bought them didn't discover that one was blind until after he had paid over his money. He went back to Fisher, and said, "You didn't tell me one of those horses was blind." Fisher replied, "The man I bought them from didn't tell me about it, either. I guess it was one of his family secrets. If I were you I wouldn't tell it, at least, until after you have disposed of the horse."

A Boone county, Missouri, hog buyer says: "In the last three years I haven't missed having from one to three loads a week on the market, but I'm afraid I'll fall down next week. I have been searching everywhere, and so far I've got only fifteen. Hogs are getting as scarce as hen's teeth."



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EVERY TIME LIGHTNING STRIKES

You Are in Danger

unless you have D. & S. lightning rods on your buildings. You cannot afford to take such chances. You need this protection for your home—for your property. Like other lines of business and professions, there is a difference between the real, the genuine, and the imitation or the cheap kind. You cannot afford to accept dangerous substitutes when such important principles are involved. You cannot afford to keep that good horse, or that good cow, or any other kind of live stock, in unprotected buildings—much less the home, where the loved ones abide. Think of it, man. You will not need to think long.

This is proof sufficient: 111 fire insurance companies report losses showing 2,960 fires in one year; 2,165 were caused by lightning, only 795 from other sources combined. Think of it, 3 to 1. That is what we save you from.

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DON'T delay writing us to get one of our Telephone Lightning Arresters—Free. Also ask for our valuable and interesting Shrauger Free Book—statistics—facts on lightning dangers and protection—and our special proposition to install for you the most economical but best lightning-rod equipment made in America today. There is

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Made of Pure Copper Cable—specially woven in continuous strands, making a line over all your buildings which absolutely guards your lives, buildings, stock and all your property against the terrible dangers of lightning.

Don't trust to unknown agents such important work as this. Get our factory guarantee behind every "Shrauger" System. You'll be astonished at the low first-cost and lifelong service and handsome style of "Shrauger" Rods and Fixtures. Write us—the actual manufacturers.

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THE YOUNG FOLKS

A LITTLE PET DOG.

I have a little pet Collie. Sometimes I play with him and when I try to tie him he will take the string in his mouth and try to run away with it. He is brown and white, with white feet as though he had stockings on. His name is Carlo and he sleeps down in the barn. Whenever we whistle he will run just as fast as he can to us. Sometimes the cats fight with him and then he will begin to bark. In the mornings and at dinner time he always gets what is left, so it is handy to have a dog. When my father went to the sale and bought him the first thing we did when he came home was to name him, so we all gathered around in a bunch and thought, and at last my brother said his name should be Carlo, so it was.

Theo. Gulager.

Why Mother Never Likes Cats.

Bob and I were the only children in our household of five, the other members being a widowed mother, an aged grandfather and a maiden aunt. We lived on a large, fertile farm which mother manages very successfully.

When vacation time came we hailed it with delight, for we predicted many good times in the future. Coming home from school the last day Bob drew a sketch of the pranks and jokes we were to indulge in the following week. The one that delighted him most concerned Colonel Stark and our neighbor's cats.

Mother had been troubled by those cats for nearly three weeks and she declared she could not tolerate it any longer. They had stolen her chickens; eaten eggs from the hen-coop; got into her pantry; spoiled freshly baked cakes and pies, and worst of all had devoured Dicky, her pet canary. Things had come to a climax, and mother had asked Bob if he could rid her of those troublesome cats, who nightly came over to serenade her with their bewitching music. Bob said if he could catch them he would tie their tails together and hang them over the clothesline so that both cats would eat each other up. Later he told me that he would soon have some fun with those cats.

Sunday evening as usual, Colonel Stark came over. He was a fat, peaceful-looking gentleman already in his forties. He usually had some excuse for his visits, such as "wishing to know how grandfather was," to "bring mother some fruit or flowers or something," but gossip had it that he had a different purpose in view.

Mother and Aunt Emma had gone on a visit to the city and grandfather was in bed with the gout, so the "coast was clear," as Bob said. Bob knew Colonel Stark's weakness was the fear of ghosts, and he also knew that the sight of a cat made him shiver. He once said, "I'd rather face a whole band of Indians than come in contact with one of those creatures that possess nine lives."

A half mile from our home was an old house which was said to be haunted. It was too badly decayed to be used for anything and so it contained nothing but rats and mice, and occasionally rabbits were seen around there.

When the colonel was comfortably seated in the parlor, Bob ran in with two traps in his hands.

"Say, Colonel Stark," called he, "won't you come with me to set my traps down at the haunted house? Mother is not at home, but—"

The colonel could find no excuse, so he consented to go. As they approached the house the mournful croaking of the frogs together with the moaning of the wind made a very weird combination. Bob asked the colonel to go inside to set one trap while he went around the house to set the other.

As soon as the colonel disappeared within Bob signaled me to come from my hiding place behind a clump

of bushes. I had with me a sheet, a pair of stilts, a jack-o-lantern whose face was covered with dough. Bob quickly put the jack-o-lantern over his head through a hole scooped in the bottom, and then a sheet over himself and the pumpkin head so as to conceal everything but the white face of the jack-o-lantern. While Bob was doing this I quietly stole up the stairway, which was on the outside of the house, taking with me the cats and a small chain with which I was to make the unearthly sounds usually heard with ghosts.

When I got upstairs I dragged the chain over the floor and the colonel hearing this sprang up from the floor where he had been bending over the trap. Just then he caught sight of Bob who had appeared in the door. For a moment he could not believe his eyes, but when Bob slowly raised a bony arm (which was part of a skeleton of an animal,) and said in a low, hoarse voice, "I am the spirit of your dead wife," the colonel fell on his knees saying, "Oh, forgive me that I ever visited the widow."

Just at this critical moment I dropped the two cats on his head through a hole in the floor. This seemed to put life in his trembling limbs, and with an exclamation of despair he ran for the door. The cats did the same and got mixed up with the colonel's feet, causing him to topple headlong to the ground. Bob, who was enjoying the joke immensely, quickly took off the pumpkin from his head and hurled it at the colonel. He told me afterwards that he thought the colonel was even more frightened than Washington Irving's "Ichabod Crane" in the "Sketch Book."

Jumping up the colonel ran as fast as his trembling legs would allow. After he was out of sight Bob sat down and laughed for fully five minutes, but he was a little doubtful as to how mother would act when she heard of his conduct.

The next day the colonel plainly saw that the affair was only a prank of Bob's and he was angry at first, but his anger changed to humiliation when he thought what mother would think of his cowardice. Mother was also angry when she heard of the story, and still angrier when the colonel did not continue his visits. She did not blame Bob in the least, for she says, "Boys will be boys," but whenever she thinks of those horrid old cats she says she feels like crying.

But yesterday mother declared she was going over to Colonel Stark's and take him some of her famous mince pies and angel food. I think she had the old proverb in mind, "The way to a man's heart is through his stomach" and it proved true.

Mary J. Ansman.

WANTED—RIDER AGENTS in each town and district to ride and exhibit a sample 1910 Model "Ranger" bicycle furnished by us. Our agents everywhere are making money fast. Write at once for full particulars and special offer.

NO MONEY REQUIRED until you receive and approve of your bicycle. We ship to anyone, anywhere in the U. S. without a cent deposit in advance, prepaid freight, and allow TEN DAYS' FREE TRIAL during which time you may ride the bicycle and put it to any test you wish. If you are then not perfectly satisfied or do not wish to keep the bicycle you may ship it back to us at our expense and you will not be out one cent.

LOW FACTORY PRICES We furnish the highest grade bicycles. It is possible to make middlemen's profits by buying direct of us and have the manufacturer's guarantee behind your bicycle. **DO NOT BUY** a bicycle or a pair of tires from anyone at any price until you receive our catalogues and learn our unheard of factory prices and remarkable special offer.

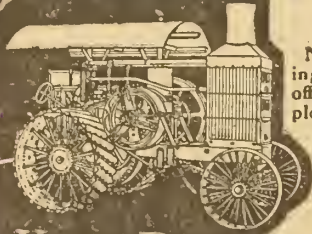
YOU WILL BE ASTONISHED when you receive our beautiful catalogue and study can make you. We sell the highest grade bicycles at lower prices than any other factory. We are satisfied with \$1.00 profit above factory cost. **BICYCLE DEALERS**, you can sell our bicycles under your own name plate at double our prices. Orders filled the day received.

SECOND HAND BICYCLES—a limited number taken in trade by our Chicago retail stores will be closed out at once, at \$3 to \$8 each. Descriptive bargain list mailed free.

TIRES, COASTER BRAKE and everything in the bicycle line at half usual prices. Our Catalogue beautifully illustrated and containing a great fund of interesting matter and useful information. It only costs a postal to get everything. Write it now.

MEAD CYCLE CO. Dept. D184, CHICAGO, ILL.

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ALWAYS READY—NEVER TIRED

No wasted hours feeding, caring for and harnessing horses. 10 or 15 minutes to oil up and you're off. Eats nothing when idle. The Ideal Power for plowing, discing, seeding, harvesting, threshing; corn planting, shelling, shredding, grinding; road grading, hauling and all kinds of heavy farm work. Hundreds in successful operation.

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ASK FOR 48 PAGE ILLUSTRATED CATALOG

HART-PARR CO. 228 LAWLER STREET, CHARLES CITY, IOWA

CYCLONE ORNAMENTAL FENCES are a profitable investment for property owners. Every dollar spent in fixing up your place in this way will add \$10.00 to its value.

CYCLONE FENCES are made so they never sag or bulge out of shape. They will outlast other fences for the wires are heavy and rust-resisting. Cyclone Fabric can be erected on uneven ground. Cyclone Fences are made in many different styles of many attractive patterns, using either steel or wood posts. It will pay you to look into this matter of fences and in order that you may know about Cyclone Fences we send our Style Book free.

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IS IDEAL FOR ROUGH AND READY WEAR IN THE WETTEST WEATHER. IT WILL KEEP YOU DRY AND COMFORTABLE AND GIVE LONG SERVICE.

SUITS \$3.00 SLICKERS \$3.00 POMMEL SLICKERS \$3.00

SOLD EVERYWHERE—CATALOG FREE

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ADMIRAL 2-MAN PRESS SELF FEEDER CONDENSING PACKER

ADMIRAL HAY PRESS

LANDS AND HOMES FOR SALE

3,280 ACRE MISSOURI STOCK FARM

I WANT every man interested in a stock farm to write me for full particulars. It is impossible to give all the details here; but in all my experience I have never seen a stock farm so complete and so ideally situated close to 3 great markets. 2,000 acres are newly fenced with Page woven wire and three barbed wires; posts one rod apart. There is plenty of water; houses are new and everything is ready for an able man to go right in and make a big success. This stock farm has splendid new large stone house and concrete and frame barn; other houses for help and tenants. The Rock Island R. R. from St. Louis to Kansas City runs through this farm and has shipping yards and switch on the farm. Two thousand (\$2,000) dollars worth of grass seed was sown on this farm last year and is making a splendid showing.

WHAT A PLACE FOR A MULE FARM OR DAIRY!

The price for a short time will be \$25 an acre—EASY TERMS. I have no doubt but that inside of 10 years the tillable land, 1,640 acres, will be worth \$100 an acre and the pasture land \$50 an acre. Write me NOW for full description and terms.

J. H. LIPSCOMB,
310 Fidelity Trust Building,
KANSAS CITY - MISSOURI.

GARDEN HOMES IN SUNNY COLORADO

where life is worth living and prospects for a better future are unexcelled. Ideal climate, the sun shining 320 days a year. MR. HOME-SEEKER, MR. INVESTOR—your opportunity is now. We own 16,000 acres within five miles of Pueblo (the metropolis of Southern Colorado). Perpetual water right. Land now ready for the plow. Tracts of 10 to 60 acres. For \$20, as first payment, we will hold a tract for 20 days for you to come and look it over. Best land in Colorado. If not just as represented, we will return your money. Act quick. Those who have bought of us would not dispose of their land at greatly increased figures. All kinds of grain, fruit, vegetables, poultry and honey produced here in abundance. Traversed by five railroads and best surfaced wagon roads. Good markets and shipping facilities: good schools and churches at Pueblo. Terms, one-fourth cash, balance on easy terms. Write for illustrated booklet, map and particulars relative to transportation.
The TELLER RESERVOIR & IRRIGATION CO.
603 C North Santa Fe Ave., Pueblo, Colo.

MONTANA LANDS

Write today for our beautifully illustrated folder about the famous wheat and alfalfa lands in fertile Cascade county, Northern Montana. We can sell you land that will produce 30 to 50 bu. of wheat to the acre at \$15 to \$25 per acre. Improved farms \$20 to \$40 per acre. Best soil; plenty of rainfall; perfect climate the whole year round. ASK FOR OUR FREE FARE COUPON AND LIST OF DEEDED LANDS.
M. A. STRANG LAND CO.
GREAT FALLS, MONT.
"Montana's Leading Land Firm."

CROP PAYMENT FARMS!

YES, I still have some of those quarter sections in Minnesota and North Dakota that I can sell on crop payments. Write me about them. Address D. J. McMAHON, 213 Endicott Building, St. Paul, Minn.

Good IMPROVED FARM

FOR SALE. 320 highly improved farm; 240 under cultivation; all seeded. Price \$12,000, with \$6,000 incumbrance. Five miles from county seat. Also stock and machinery at \$2,700. This is a snap and must be sold at once.

W. C. WEBER, LITTLE FALLS, MINN.

Murray County, Minnesota
I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address BERT I. WELD, SLAYTON, MINNESOTA.

Iowa Lands For Sale in Howard county, \$50 to \$90 per acre. Large list on request. Address, SPAULDING & O'DONNELL, Elma, Iowa.

No standardization system for the apple crop of the United States, which fluctuates annually from 26,000,000 to 68,000,000 barrels, will be provided during the present session of congress. The lafen bill to establish standard packages and grades of that fruit was adversely acted upon by the house committee on agriculture.

SOUTH DAKOTA CORN LAND

Alfalfa and stock. We have a large lot of improved and raw land from \$20 to \$35 an acre on easy terms. Address TOWNSEND LAND & LOAN CO., MURDO, SOUTH DAKOTA.

SOUTH DAKOTA LAND in LYMAN COUNTY

The choicest of land; all kinds of grain raised; plenty of water. Prices range from \$15 to \$35 per acre. Write for Free Love-Carter Land & Loan Co.'s (Inc.) free price list, Kennebec, South Dakota.

BUY A HOME IN SUNNY SOUTH DAKOTA

We have choice bargains in farms and ranches. Write us for further information.
THE O'RIELLY LAND COMPANY, DRAPER, LYMAN COUNTY, SOUTH DAKOTA.

SOUTH DAKOTA

ARE you interested in South Dakota, the state that is leading all other states in the production of wealth per capita? If so, send for free literature on Brule County and South Dakota. No agents need apply. I sell direct to purchasers, who save from \$1 to \$5 per acre commission. J. A. Strausky, Pukwana, S. D.

Sully County, South Dakota

THE cheapest proven corn lands in the United States. Let us tell you all about it. Information and list free for the asking. Good water, good soil, good schools, good neighbors and no stone or gravel. New railroads now building. Splendid opportunities. CLAUDE GARNER & CO., BLUNT, S. DAKOTA.

SOUTH DAKOTA LAND

BUY land in the western part of South Dakota, on the east slope of the Black Hills, where you are west of the hot winds, and where it rains. Here we have a fine climate, good water, plenty of timber, good soil, good markets, and grow fine crops each season. For further information, write or call on
THE WASTA LAND & LOAN COMPANY - WASTA, SOUTH DAKOTA.

Wonderful Northwestern North Dakota Lands

THE Bread Basket of the World. Come West and secure some of this land while it is within reach of your purse. We have a limited amount of this land for sale, and can sell it on your own terms. Rich, black loam, clay subsoil, good water, good roads and excellent shipping facilities. Address
L. S. OLSEN & COMPANY - WILLISTON, NORTH DAKOTA.

South Dakota Farms for Sale

A GOOD 1/2 section 4 miles from Carthage, in Kingsbury County; all fenced; all tillable; except 5 acres watered by running stream. Price, \$47.50 per acre. Write for complete list. Lands in corn belt region of South Dakota. WESTERN LAND SECURITY CO., SIOUX FALLS, SOUTH DAKOTA.

MONTANA FARMS IN THE FAMOUS JUDITH BASIN

COME to Lewistown, Montana, where wheat is KING; where the straw is a rich, golden color and stands up straight until the cutting; where the grain yields 30 to 60 bushels per acre every year. We have 16 inches of black soil, with a yellow clay subsoil. PLENTY of rainfall during the crop-growing season to insure big yields every year. Come where there is rich, productive soil, pure mountain water, with a healthy, pleasant climate. Absolutely the richest wheat land in the Northwest. Government statistics prove it. Investigate and you must believe. May I show you? Homesteads and patented lands. Land values rapidly increasing. COME NOW.

STONER'S LAND AGENCY, Lewistown, Mont.

Back to the Soil 50,000 ACRES In St. Louis and Carlton Counties MINNESOTA

NEAR fast growing cities of DULUTH and SUPERIOR. Splendid markets. Eighteen railroads. Soil fertile and well adapted to general farming, dairying and raising of garden truck. Price, \$8 to \$10 an acre. Easy terms. Lands are owned by this company, free of all incumbrances, and no reservations. Write for full particulars and information.

Boston & Duluth Farm Land Co.
No. 18 5th Ave. West, Duluth, Minn.

CHEAP IOWA LANDS

WE have 297 acres of wild land in Osceola County, Iowa, to offer at \$50 an acre, three and a half miles from a good town. Fine, improved farms all around. One eighty is rough; the balance is good farm land. \$1,000 cash and easy terms on the balance at 5%. Here is a snap; won't last long.

J. G. Chrysler & Son, Lake Park, Ia.

For Sale or Exchange

640 ACRE, well-improved farm, located five miles from Souris, Bottineau County, North Dakota. Also a few choice quarters near Montrose, Williams County, N. Dakota. For particulars, write Northern Investment Co., Williston, N. D.

BUY SOUTH DAKOTA LAND

A LARGE list of improved and unimproved Lyman County farm lands for sale. Good land from \$15 to \$25 per acre. For maps and description, write the Murdo Mackenzie Land Co., Murdo, S. D.

IOWA 320 ACRES

FOR SALE. Pocahontas county, 4 1/2 miles county seat; thoroughly tilled, improved, health cause of selling. Write OWNER for full description and title plat. B. S. ALLEN, LAURENS, IOWA.

Bellwood Farm For Sale

THE Bellwood Farm at Bellwood, Douglas Co., Wisconsin, on the N. P. Railway, 20 miles east of Superior and three miles from the famous Brule river, containing 1,080 acres of red and black loam. Over 80 acres cleared and cultivated; two-story house 28x32, basement, bath, closet, etc.; barn 50x56; store and office building; granary, chicken house, storehouse and blacksmith shop. The Bellwood railway station, 1000-ft. sidetrack, schoolhouse and three other small dwelling houses also located on the land. Three good wells of the best water; windmill; two trout streams running through the land; two miles of wire fence; five acres hog pasture, fenced in. The land that is not cleared is covered with mixed hardwood timber and grass. Good pasture all over the land. First-class location for stock or dairy farm, creamery and store. I have finished lumbering at this point, and will sell this place at a bargain. Price, \$16,000; will take small cash payment and balance to suit purchaser at 6%. If it looks too big for you, get some of your friends to club with you. There is enough land in this piece to make six men rich in a very few years if properly handled. I also have some smaller unimproved tracts for sale. M. J. Bell, Bellwood, Wis., or care Bell Lumber Co., Minneapolis, Minn.

IOWA CORN AND ALFALFA FARMS

No better corn farms in the corn belt.
No better alfalfa land anywhere.
No better winter wheat land anywhere.
No waste land; no wet land.
No sand; no gravel.
Just rich, deep, black soil.
The only section in Iowa where corn and alfalfa are both extensively and successfully produced.
For sale by
H. L. CRAVEN & CO., ONAWA, IOWA.
Ask for new free list.

MONTANA FARMS

In the Big Basin Country The greatest agricultural grows wheat, oats, alfalfa and garden stuff without irrigation, and has won more prizes at the different expositions than any country in the world. Farms at \$15 to \$30 per acre, and one crop pays for your farm. Send for our free booklet and descriptions of wheat farms. Great Falls Land & Investment Co., P. O. Box 330, Great Falls, Montana.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Lyman Co. Lands

A SNAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. HAGLER LAND CO., PRESHO, S. DAK.

Southern Idaho Fruit Land

WRITE for easy terms on five-acre tracts, all in growing orchard; apples, pears, peaches, raspberries, plums, etc.; good market. Please mention this paper. Address Twin Falls Nursery and Orchard Co., Box 1278, Twin Falls, Idaho.

10,000 ACRES IN CENTRAL MINNESOTA

THE garden spot of America. Land of the big red clover, pure water and a healthy climate. In tracts to suit, at \$10 to \$25 per acre. Santee Bros., CEDAR FALLS, IOWA.

Buy Corn Belt Lands In the Famous Montevideo black loam prairie district of S. W. Minnesota. \$30 per acre and up. Free pictorial and descriptive price list. Address E. H. Crandall, The Land Man, Montevideo, Minn.

WESTERN CANADA

What Governor Deneen, of Illinois, Says About It

Governor Deneen, of Illinois, owns a section of land in Saskatchewan, Canada. He has said in an interview: "As an American I am delighted to see the remarkable progress of Western Canada. Our people are flocking across the boundary in thousands, and I have not yet met one who admitted he had made a mistake. They are all doing well. There is scarcely a community in the Middle or Western States that has not a representative in Manitoba, Saskatchewan or Alberta."

125 Million Bushels of Wheat in 1909
Western Canada field crops for 1909 will easily bring \$175,000,000.00 in cash. Free Homesteads of 160 acres, and pre-emption of 160 acres at \$3.00 an acre. Railway and Land Companies have land for sale at reasonable prices. Many farmers have paid for their land out of the proceeds of one crop. Splendid climate, good schools, excellent railway accommodation, low freight rates, wood, water and lumber easily obtainable. For pamphlet "Last Best West," particularly as to suitable location and low settlers' rate, apply to Sup't of Immigration, Ottawa, Can., or to the Canadian Government Agent. (5)
W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.

30,000 ACRES OF RICH FARMING LAND IN MONTANA

ADJACENT to railroads, comprising the famous "Seventy-nine Ranch" in the Musselshell river country. This rich land to be retailed to farmers and homesteaders at from \$7 to \$18 per acre. Many good quarters, all tillable land, \$11 to \$15 per acre. This is your chance to buy land that will produce 40 to 50 bushels of wheat per acre. Other small grain in proportion. Alfalfa, vegetables and fruit produce big crops. Plenty of water and coal. Now is your chance to buy good land cheap; 1/4 cash, balance in three equal annual payments. Write me for free map showing location of land and full particulars.
S. O. Fletcher, Box 757, Billings, Mont.

GOVERNMENT LAND FREE IN ROUTT COUNTY COLORADO

To secure good farmers, we tell you how to locate 160 acres of fine government land in Routt County, on Moffat Road, (Denver Northwestern & Pacific Railway). Big crops, pure water, good soil, fine climate and markets. Fine openings for investments and business. We have no land to sell, it's absolutely free from the government. Law allows you to return home for 6 months after filing. Write for free book, map and full information that tells how to get this land free. Address W. F. JONES, General Traffic Manager, 704 Majestic Building, Denver, Colorado.

A Force Put By Owner

A HIGHLY improved farm of 363 acres in Thayer County, Nebraska, for \$65 per acre. Another of 240 acres in Nuckolls County, Nebraska; 85 acres in alfalfa; \$85 per acre. Ranch of 1,200 acres in Hayes County, Nebraska; fenced and fine grass land, with plenty of water; clay soil; at \$15. 325 acres in Dawson County, Nebraska; improved; 100 acres cultivated; \$35. All money makers.
G. A. Dennis, Box 622, Lincoln, Nebraska.

... BUY ... South Dakota Land KADOKA, STANLEY COUNTY.

RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gift-edge farm mortgages for sale. For description, write
F. E. Reldinger Land Agency, Kadoka, S. D.

We Mean It!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

Improved Kansas Farms

I OWN the following improved farms, all near Severy, Kan., that I will sell on a payment down and the balance on long time at low rate of interest: 80 acres at \$45 per acre, 160 acres at \$35 per acre and 320 acres at \$30 per acre. I am not a real estate dealer; simply own the land and want to sell it. If you are interested write or call and see the land. M. J. BIDWELL, Severy, Kansas.

HOMESEEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address
The Allen Co. Investment Co., Loughton, Kan.

WE HAVE UNDER OPTION CONTRACT

SO can sell at low prices three pieces of land in the Tramping Lake District, Saskatchewan, Canada; one 160 acres; one 320 and one 640. Easy terms. Write today for details. Hawkeye Real Estate & Invest. Co., Room 7, News Arcade, Des Moines, Iowa.

URGES FARMERS TO ORGANIZE.

(Continued from page 13.)

I have been in the East and have known of the movement there toward the habilitation, so to speak, of the eastern farm, for the purpose of introducing new methods, and with the high prices of production it is the hope that the men may return to the farm there and by new methods of intensive farming make it profitable.

This idea of a national bureau of health was also discussed by Senator Owen, of Oklahoma, who made an eloquent plea for the same careful attention to the health of humans as the department of agriculture and the various agricultural colleges are paying to the health of live stock.

The education of the farmer so that land in the United States may be made to produce twice as much as at present, thereby relieving the high cost of living, was urged by Secretary Wilson, of the department of agriculture, who declared that no state in the union is now producing half what it should and that where the country's products are now supplying 100,000,000 people, they should be supplying twice that many. He indirectly laid the cause of the sky-high price of necessities to the door of those who refuse or neglect to take an interest in and assist in the work of spreading the necessary information as to soil conservation and the method of increasing its productiveness. He also paid his respects to the present household economic system, saying: "Too many times, it seems, we buy necessities in paper packages instead of the good old-fashioned barrel or sack. I believe the best thing you could do would be to get a committee with women on it, to consider economics of the home." The secretary also pleaded for more text-books on agriculture and for the teaching of agriculture in more of the public schools and private colleges.

In the course of an interview in one of the evening St. Louis papers Secretary Wilson is said to have been asked, "Are the agricultural schools doing the farmers any good?" and to have replied, "The schools of this country have done and are doing mighty little for the farmer." In the course of this same interview the secretary is quoted as saying that Governor Hadley's plan to get city people back on the farms was nothing more than a myth and that "the book-farmer would be about as successful on the farm as the correspondence-school carpenter would be in the trade. The only city people who can better their condition by returning to the farms are the laborers." The next day Secretary Wilson indignantly denied this interview, but the paper in which it appeared maintains that it quoted him correctly.

The attendance at the convention was considerable of a disappointment, as St. Louis had been given to expect that fully 20,000 members, both of the Farmers' Union and of the Society of Equity, would be present, but at no time aside from the appearance of President Taft were there more than four or five hundred in the vast coliseum. Those who did attend, however, were practical farmers and enthusiastic members of the two societies and the discussions were of great practical value, dealing with the homely, everyday problems of farming. The first farmers' union was organized in Illinois ten years ago last April, with a membership of forty-six, and so popular has the idea become that today the Farmers' Educational and Co-operative Union of America numbers 3,000,000 members. Small as the number in attendance, yet the delegates represented between fifteen and twenty states, in each of which the work of organization has been going on quietly, but apparently effectively. Now that affiliation has been made with the American Federation of Labor and the impetus of encouragement of practical results has been given to the movement, it is expected that it will be carried on in the future with much more enthusiasm and far greater results.

Farmers who have not yet procured seed corn should without delay investigate that advertised by the Stoecker Seed Company, on page 16. They have a large quantity of Reid's Yellow Dent corn which they sell under a guarantee that 95 per cent will germinate, and under a ten days' trial. Prices are noted in the advertisement. Forward orders at once to the Stoecker Seed Company, Peoria, Ill.

The Land Problem

By F. D. Coburn

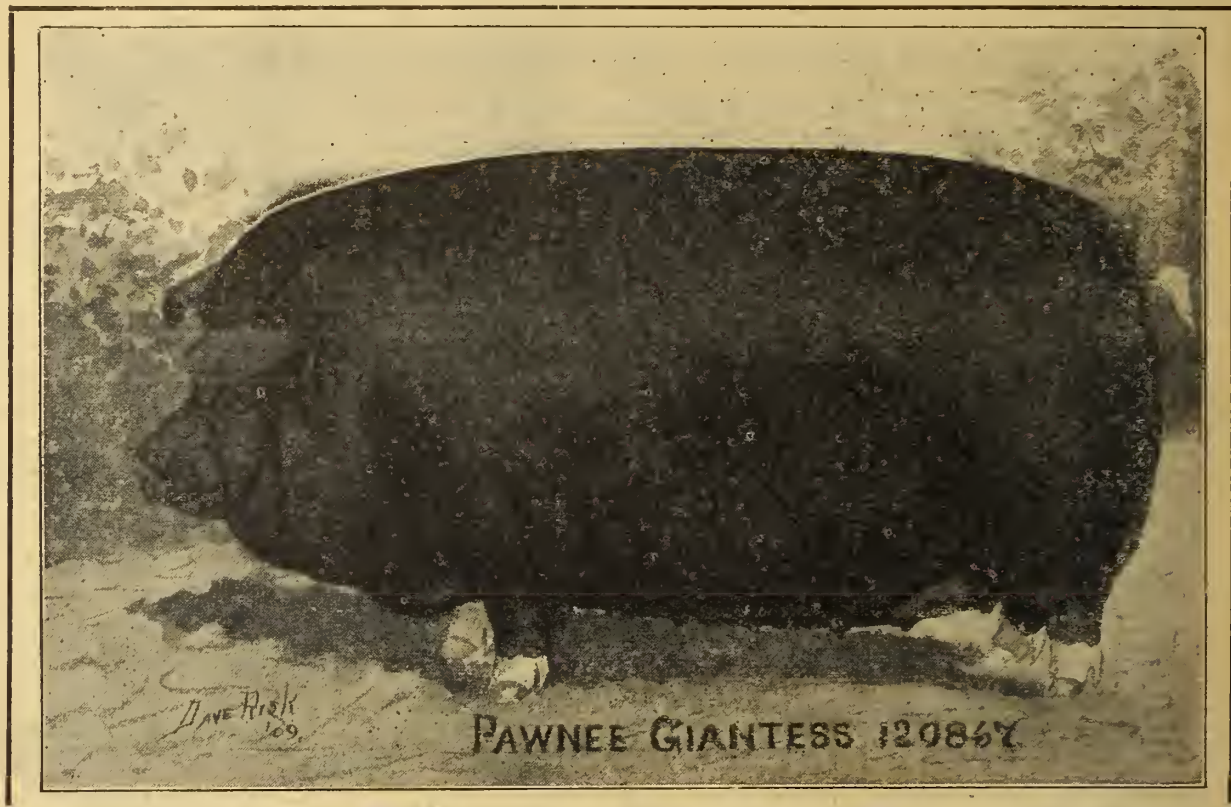
FROM the first agriculture has been the important industry, for by it humanity is fed and clothed. Christian or barbarian, white, black or of other hue, all depend upon the soil for raiment and subsistence. Land has always been held in highest esteem; the one asset indestructible. It is rated as the safest and most conservative investment, and, as the basis of wealth, will always be so regarded. With the passing of the public domain and the almost simultaneous advance in the cost of living, interest in farm property in America has been sharply heightened. In fact,

every hand are put forth in pretentious dress bales of seductive and expensive literature, presenting most extravagant claims, some of which are impossible of fulfillment.

There are lands and lands. Some represent excellent bargains, splendid opportunities and great possibilities, for use or as investments, and they are not confined to the West, the wilderness, the sand hills or the sagebrush. Others, bought at whatever price, could mean naught but disappointment. There are agents and agents. As a class they are reliable and responsible men; there are some, as in all lines, who are sharks and

section where one tract may be a veritable gold mine in agricultural production and a nearby property practically worthless, it is an easy matter to orate upon the virtues of the former as representing the potentialities of the latter. It is the part of wisdom for those seeking investment in land to personally visit and critically examine the tracts under consideration, or at least have a competent trusted friend to do so. Generally it is wise to avoid the agent whose prospectus promises returns calculated to make Croesus's wealth look like the proverbial thirty cents.

There is a vast difference in soils, locations and environment. As every rose has its thorn, so every section has its drawbacks as well as attraction. The prospective purchaser should look well before he leaps, for otherwise he might be jumping into the vortex of trouble. If there is doubt



Pawnee Giantess, one of the noted big-type brood sows in the Williams Bros. herd, at Villisca, Iowa. She is raising nine pigs this year out of eleven farrowed, sired by Young Look, a grandson of Big Tecumseh. The Messrs Williams Bros. are offering good spring boars and gilts for sale now at private treaty. Read their advertisement on page 36.

to such a degree has this attained that the desire for land has become epidemic.

Whatever is left of the free government land in the United States is, in the main, not adapted to general farming, being either too wet, too dry, or too rough. Some areas will be reclaimed by irrigation and some by drainage, yet such additions to our productive area will comprise only a small fraction of the whole, and the day of the pioneer homesteader has gone by, in its course marking the occupancy of a great country. This does not mean that our agricultural lands are anywhere near under cultivation or fully developed, as in Kansas, for instance, only a fraction over a third of the state's area, practically all arable, is under the plow. But it does mean that land suitable for farming can no longer be had for the taking.

Many city men, tiring of urban existence and the incessant struggle to make ends meet, turn to the land as a panacea for all their troubles, while the farmer on the high-priced farms of the corn belt, moved by visions of going farther West and making a second fortune through increase in values, is likewise an active factor in the realty markets. These are the two big classes making business for the land schemers. Even at the present and increasing prices productive land must be a good investment. There will never be more of it, and as population increases it will inevitably become more and more a coveted treasure. Owing to this acute situation the highways and byways are populous with land boomers, and the land hungry are everywhere.

While this land-getting fever is so high, proper enough in its way, a word of caution may be pertinent. This, in view of the fact that on ev-

sharpers—gray wolves hanging on the flanks of a respectable business. It is well to consider the agent, and pretty safe to avoid the propositions that make the acquiring of a tract so "easy" that one marvels at the philanthropy of their promoters. It is well to bear in mind that there is no more "get-rich-quick" chance in agriculture than in other legitimate businesses.

All parts of the country offer excellent opportunities for investments and home making, and some may present advantages not possessed by others. Today the high-priced rich soils of the corn belt may be as "cheap" as land in the so-called newer regions. It is well for the prospective purchaser to investigate the distant regions, but at the same time he should not be deaf to the knock of opportunities at home. If some of the sweeping claims made for their territory by agents were true portions of our country would be quickly depopulated, while others would as quickly become congested with humanity.

There is no doubt that many fortunate investments will be made in the so-called newer areas, and as this is the favorite region for promoters to conjure with at this time, it is likewise quite certain that there will be disappointments, too, for, in the manner many trades are negotiated, chances are plentiful for the unsophisticated to not only lose their money and enthusiasm, but a large portion of their faith in mankind.

It seems the height of folly to buy without having first seen what is bargained for, but this is exactly what many are doing. One should know in advance whether he is buying an inaccessible mountainside, a patch of aridity, a swamp, or land actually irrigated or irrigable with water instead of words. When it comes to a

as to title, location, quality or price, take the benefit of the doubt. A long distance land investment, generally speaking, is not wise. It is a fact that one wanting land might more often do infinitely better if he were to look about and buy at home, for not all of the opportunities are confined to one section or one branch of farming. Farmers in the great corn belt should deliberate long and well before they sell out and move to

WIND MILL INSURANCE

WHAT'S the use of wasting good

money

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outfit for

the wind

to down when you can

just as easily, and for

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years against tornadoes, cyclones, run-

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and everything except willful act or will-

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is the only windmill made that is so insured,

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built right. A postal card will bring you

the proof and a free book in which you will

find more practical information about wind-

mills than can be obtained from any other

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strange regions with the idea of bettering themselves. Those who sell because "it doesn't pay to farm high-priced lands" practically acknowledge their incompetence, for the buyers must consider them mistaken or they would not buy. Lands in England, for example, valued much higher than those considered the best in America, are cultivated with profit.

It is human nature to look away from home for opportunity, when as a matter of fact it may be found under foot. Often the best chances are at our very doors, where we are acquainted with conditions and know reasonably well what may be expected.

That "familiarity breeds contempt" seems to be no more clearly manifested than in the case of those who contend that there are not opportunities at home. They are plentiful, and for the man with the brawn and brain, properly balanced, competence and comfort may be his by taking advantage of the openings within easy reach. The man, young or old, who has, for instance, a good farm in the corn belt can scarcely hope to do better than stay with it, and the city man wishing to invest in a productive farm, might go a long distance and run great risks without doing better than he could do in his own county.

Land is a most desirable possession, and he is a wise man who secures a productive tract while it is yet within his financial reach, but these remarks are intended as a hurdle to help check the land-crazy in their long-distance dash for land; to encourage them to stop, look about and investigate. They are not to discourage land buying, but to favor it; to encourage the well meaning but too often unsophisticated to act with judicious deliberation in the matter of parting with their assets and autographs for taxable uncertainties.—Kansas City Star.

KILLING THE TROUBLESOME KINGHEAD.

You ask me to write a short note with regard to my experience with kinghead. It began some time in the early '70's on the hillsides of southern Indiana, and upon the bottoms of the Ohio river, the flats of Hogen creek and Miami river. There we boys learned to call the weed horseweed, and I remember plants of them on the creek bank and in the flats of the smaller streams along the edges of cornfields which were sufficiently large to allow me, at six to ten years of age, to climb several branches from the ground without breaking them over. This sounds as though the weeds grew quite rank in places. This is one of my chief experiences with kinghead, namely, that it is a rank grower. Some people call it greater ragweed. Others in the northwestern states call it kinghead, because it produces a seed with a five-point crown.

When I lived in the flats of Ohio the kinghead gave trouble to corn cultivation, but at that time people did not consider it a very troublesome weed. It was called horseweed because horses enjoyed eating it when in young and succulent form.

In the Northwest among the wheat growers it has become a real pest, because on the large areas the seed drift by the wind, float by the water, and in the fertile soils, especially of the Red river valley, it makes a very rank growth, crowding out the grain.

The weed would not have spread so readily had it not been for the fact that up to date there has been no apparatus that will remove the seeds from wheat. Only the light ones blow over and the heavy ones clog up the screens and gradually sift over into the clean grain.

Wheat containing kinghead seed is cut in price, because it is almost impossible to remove them, and if they are ground with the wheat the flour is discolored and lowered in grade. It is an annual, living only one year from the seed. It infests the border of streams in any region where rains cause surface flooding. This is because the seeds have air chambers, formed by the surrounding seed coat and the king points or crown.

These seeds when buried deeply in wet land finally decay, but under reasonable soil conditions they maintain vitality for a full season or more. The

weeds sprout from the seed at depths of four to six inches. The sturdy stems when immature, send out shoots from the joints, giving it a more tenacious hold on the land than most annuals. Cut parts often take root and form new plants.

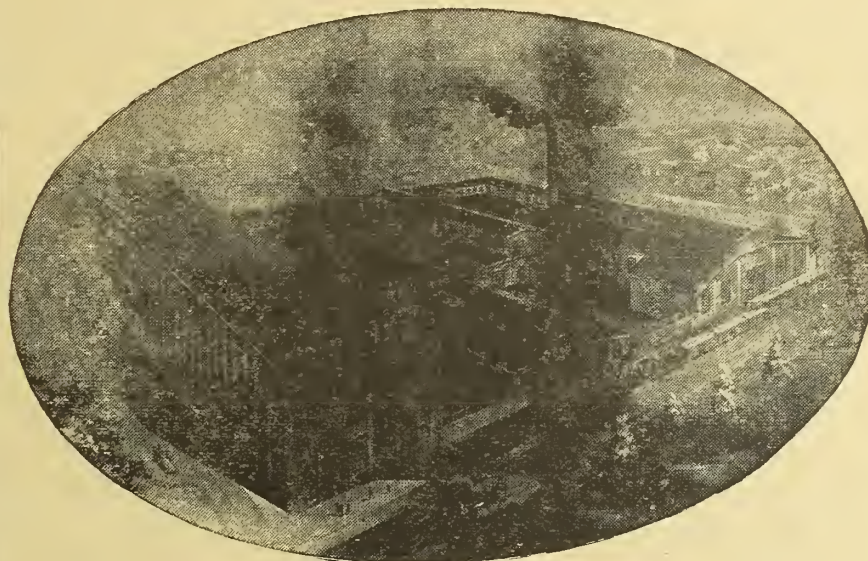
It is important that surface flooding should be prevented. Cultivation to cause seed germination should be conducted with a disk or spring-tooth harrow, or other tool which will give the required depth of stirring.

The cultivation to be effective, as in the case of mustard, should precede cropping sufficiently to allow the seeds to germinate and be killed by a subsequent cultivation. If the weeds are

are quite soft in all their parts. The grain will usually be about eight to ten inches high and the weeds just nicely reaching the top of the grain.

Spraying, however, any time previous to the heading of the grain will destroy the portion of these plants that is getting ready to produce seed. With this weed this is of practical importance, and spraying is a success even if done at that late period. It is then too late in the season for the kinghead to recover sufficiently to produce seed. The most satisfactory grains in which to spray for the eradication of kinghead are wheat or oats, preferably wheat.

I have found that kinghead is de-



NEW WAY MOTOR FACTORY.

The New Way is an air-cooled gasoline engine, manufactured by the New Way Motor Co., of Lansing, Mich. The New Way is the most highly perfected air-cooled engine manufactured. Its improvements have brought it to that point where there is no difficulty arising from water tanks, pipes or packing, as it has none of these. It will not freeze or leak. Having all these advantages, the New Way has become so popular in both hot and cold climates that the demand has been extraordinary, in fact, it has been so great as to oblige the manufacturers to double the capacity of the factory which is illustrated herewith. The new building is of solid concrete construction and equipped with the most modern machinery for turning out the New Way line of farm engines and power sprayers in large quantities. Additional particulars may be learned from catalog "C," for which write to the New Way Motor Company, 15 Ash St., Lansing, Mich.

large upon summer fallow it will be necessary either to plow them completely under, or to pull them and collect them by hand or some sort of tool so that they may be thrown together and destroyed. Otherwise they will re-root in a wet time.

The stalk of these weeds soon becomes very sturdy, especially if the atmosphere is dry and affords a slow growing period. Under this condition spraying will only kill the tops and destroy the leaves. It is, therefore, best to spray at a time when the weeds are growing rapidly, and

stroyed by a number of chemicals. Common salt used at the rate of one-third barrel to each fifty-two gallons water, or copper sulphate, used at the rate of fourteen pounds to fifty-two gallons water, or sodium arsenite, used at the rate of one and one-half to two pounds for each fifty-two gallons water, 100 pounds granulated iron sulphate to fifty-two gallons water, will all prove satisfactory sprays.

It is preferable to spray in the early morning on a day when the sun shines brightly and there is a slight amount of wind. If there is dew or a fog no

harm comes from it, but rather good, if the sun comes out within an hour or so after the spray is applied.

It is useless to undertake the work on a field plan unless the pump power of the traction machine is good. It should throw at least 100 pounds pressure upon the spray nozzles.

Because of the enormous leaf surface furnished by kinghead it is important that the spray should be so forcibly thrown and directed as to hit the necks of the stems. For this reason windy days should especially be avoided.

In the spraying operations it is not necessary to confine the work entirely to grain fields. There is little use of destroying weeds in the fields when there are plenty of weeds surrounding the field which will reseed the area again. It is a very easy matter to spray all unused ground at the same time grain fields are sprayed. Thus a farmer can benefit his own land, as well as that of his neighbors. It would not be a bad idea to suggest to the road supervisor that a spraying machine be used by him along the country roadsides.—(Prof. H. L. Bolley in "Farm Weeds.")

The case of sheep farming in New England may be worth stating again. Sheep keeping once was a profitable business. There is a shortage of meat and especially of wool which might naturally attract the New England farmer back to a field of enterprise which he has abandoned, to his profit and the industrial advancement of the region. The chief reason why sheep are not kept is that they are chased and killed or worried by dogs. The small farmer cannot afford to keep a shepherd or even trained and expensive shepherd dogs. Dogs are the only domestic animals which are suffered to run at large in New England. While they run at large there will be no sheep farming. Dogs are luxuries. Wool and meat are necessities. Can New England afford to keep dogs rather than sheep?—The Congregationalist.

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My new catalogue, just off the press, tells all about how to do it and save one-half the cost. Concrete makes the best silos in the world. Air tight—not affected by acids—will stand forever. Far better than the stave or iron silo and you can build it yourself during your spare time. Write for this valuable book today. It means big extra cash profits for you.

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Station "10," WATERLOO, IOWA

SAVE ONE HALF THE COST

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Just the kind of a car you want and thought possibly you could not afford—a car with the same splendid, standard features that are found on the highest priced machines.

Big, powerful, quiet running, 30 Horsepower Motor, Four Cylinders, Vertical, Cast in Pairs. Selective Sliding Gear Transmission, Three speeds Forward and one Reverse with direct drive on third speed. Rigid Pressed Steel Frame with reinforced, narrowed front and drop in rear. Ignition Dual System including Bosch High Tension Magneto. 112-inch wheel base, etc., etc.

All the way through, everything that goes in the car is strictly high grade.

The Badger Car is solving the automobile

problem for farmers all over the country—it will solve it for you.

We urge you to write for our booklet giving complete specifications and our wonderfully attractive proposition on the

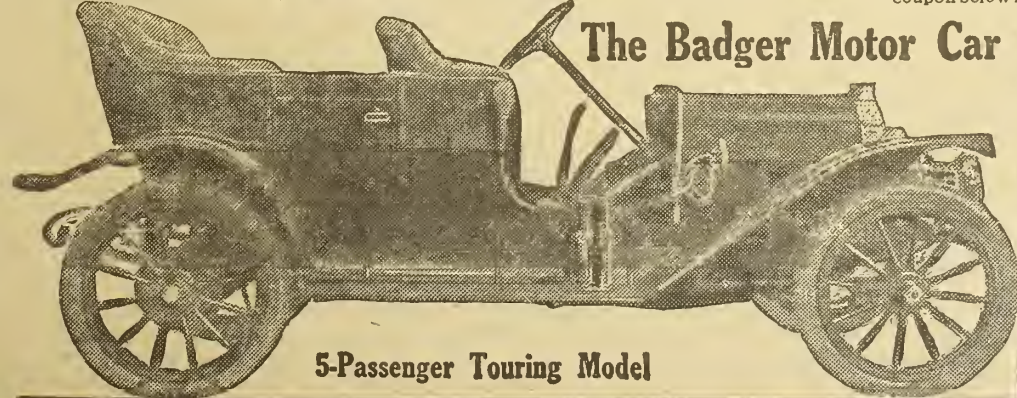
BADGER Motor Car

to prove to yourself that this is your big opportunity to get this strictly high grade car at a price that is lower than is asked for inferior cars.

The Badger Car is noted for its simplicity—women and children drive it easily and with perfect safety. Tire troubles—the largest item of upkeep expense on other cars—are such rare occurrences as to be practically entirely avoided—yet you get the benefit of the easy riding qualities of the finest pneumatic tires.

We know, and we believe you know, that there is no satisfaction in buying a cheap car, so we want you to write for our proposition on this Badger and find out how easy we make it for you to own a good one.

We urge you to do this at once for our output is very nearly disposed of and undoubtedly some who want cars will be disappointed. You certainly should not buy any car at any price until you get all the facts and our wonderful proposition on this strictly high grade Badger. The coupon below is for your convenience—mail now.



5-Passenger Touring Model

The Badger Motor Car Co. 52 Oak Street, Columbus, Wisconsin

The Badger Motor Car Co.,
52 Oak St., Columbus, Wis.

Send me prices and full
information on Badger
Cars.

Name

Town

State

R. F. D.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

June 1, H. L. Summers, Malvern, Iowa.
 June 2, J. G. Biller, Crofton, Neb.
 June 3, Breeders' Sale, Rapid City, S. D.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 17, F. M. Zenor, Woodstock, Iowa.
 June 21, Binford & Sons, Liscomb, Ia.
 June 28, Combination sale, Chicago, Ill.
 Oct. 25, Brenizer & McCullough, Broken Bow, Neb., sale at South Omaha.
 Dec. 6, Will C. Meyer, Carroll, Iowa.
 Dec. 14, C. A. Saunders, So. Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranzi, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Escher & Son, South Omaha.
 June 7, James Williams, Marcus, Iowa.
 June 8, Stanley R. Pierce, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 June 29, Combination sale, Chicago, Ill.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 18, Christian-Lang Co., Omaha, Neb.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.
 Oct. 25, Anderson & Son, Newell, Iowa.
 Oct. 26, Lakeside Farm, Storm Lake, Ia.

Hereford Cattle.

June 30, Combination sale, Chicago, Ill.
 Oct. 20, Clore and Kinsell, Chariton, Ia.

Holstein-Friesian Cattle.

May 25, Consignment, Watertown, Wis.
 June 21-23, R. E. Haeger, Algonquin, Ill.

Polled Durham Cattle.

Sept. 28, L. G. Shaver, Kalona, Iowa.

Poland China Swine.

Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
 Sept. 24, Pfander & Sons, Clarinda, Ia.
 Oct. 12, W. J. Crow, Webb, Iowa.
 Oct. 28, Geo. Seifrit, Lucas, Iowa.
 Jan. 19, Jas. G. Long, Harlan, Iowa.
 Jan. 19, Robert A. Schug, Coleridge, Neb.
 Jan. 20, C. R. Adams, Laurel, Neb.
 Feb. 8, W. J. Crow, Webb, Iowa.
 Feb. 9, C. C. Polly, Whiting, Iowa.
 Feb. 10, James Cockerton, Whiting, Ia.
 Feb. 16, Theo. Martin, Bellevue, Iowa.
 Feb. 21, Pfander & Sons, Clarinda, Ia.

Duroc Jersey Swine.

Oct. 25, W. M. Sells, Indianola, Iowa.
 Jan. 3, John Gaddard, Harlan, Iowa.
 Jan. 4, C. A. Rasmussen, Harlan, Iowa.
 Jan. 5, A. F. Hager, Avoca, Iowa.

Percherons.

June 28, McMillan & Sons, Sioux City, Ia.

Clydesdale Horses.

June 1, R. O. Miller, Lucas, Iowa.

Mules.

Oct. 19, C. C. Judy, Tallula, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Lincoln Hotel, Lincoln, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

See Mr. F. W. McIntyre's Poland China offer on page 36 of this week's Homestead.

A good Scotch bull is advertised for sale by Messrs. H. Pritchard & Son, of Avoca, Iowa, on page 38.

Some extra good Chester White fall boars are advertised for sale by Mr. John F. Holst, Jr., of Denison, Iowa, on page 36.

Mr. Frank van Hoveln, of Milford, Ill., has Scotch Collie pups for sale at prices mentioned in the advertisement on page 20.

Special prices on Poland China spring boars and gilts are advertised by Messrs. Williams Bros., of Villisca, Iowa, on page 36.

High-class Aberdeen Angus bulls at live-and-let-live prices are advertised for sale by Mr. John H. Fitch, of Lake City, Iowa, on page 38.

Mr. Fesenmeyer's "big-type" Poland Chinas engage the attention of all lovers of this breed. He makes an interesting announcement on page 36.

Mr. L. G. Shaver, the well-known breeder of Polled Durham cattle, of Kalona, Iowa, announces a public sale to take place on September 28th next.

Mr. A. L. Surfus, of Bristow, Iowa, breeds White Wyandotte chickens, and on page 20 offers eggs for sale from farm-range flocks at extraordinarily low prices.

Mr. A. Latimer Wilson, importer and breeder of draft and coach horses, at Creston, Iowa, writes under date of May 6th, saying: "Sales of the imported horses have been extra good. I expect to have a new importation of fourteen stallions and six mares reach

my barns May 21st. Later information concerning them will be given."

Mr. W. C. Bryant, of Princeton, Ill., offers Hereford bulls on page 39. If you see them you will buy at the price asked.

Mr. Will L. Coleman, of Corning, Iowa, is offering good young Angus bulls for sale at farmers' prices on page 38.

Mr. W. R. Childs, of Princeton, Ill., is offering fall Duroc Jersey boars, old enough for service, at attractive prices. See page 35 and write him, mentioning The Homestead.

In an advertisement on page 29, Messrs. Santee Bros., of Cedar Falls, Iowa, announce that they have for sale many farms in the choicest portions of central Minnesota.

Messrs. Riley Bros., of Albion, Neb., are advertising fifty head of Short-horn bulls for sale on page 38. They can furnish bulls in carload lots if necessary, and they have some good ones for sale.

Messrs. Isenbarger Bros., of Battle Creek, Iowa, are offering some splendid young Aberdeen Angus bulls for sale of the popular families at bed-rock prices. Read their advertisement on page 38.

Buying groceries by mail is a safe proposition if it be done under the plan offered by Mr. George Zaun, as noted in his advertisement on page 26. He pays freight. He sends an interesting grocery catalog free. Write for it to Mr. George Zaun, 3717 Sixth Ave., Des Moines, Iowa.

Mr. H. Fesenmeyer, of Clarinda, Iowa, the owner of the celebrated big-type Poland China boar, A Wonder, has an interesting announcement in his advertisement on page 36. He is offering sows bred to this noted hog for fall farrow and he is offering spring boars and gilts for sale.

If any of our readers are in need of a Hampshire gilt bred for August or September farrow or a fall boar ready for use, they should write Mr. Willie Essig, of Tipton, Ind. He has them that will please and the price is in keeping with the quality of the stock offered. Write him, mentioning The Homestead. See page 36.

A splendid Cruickshank bull, twenty-two months old, sired by the well-known Duchess of Gloster bull, Gloster's Favorite, is advertised for sale by Messrs. H. S. & W. S. Duncan, of Clearfield, Iowa, on page 38. This is a Cruickshank Secret and a bargain. Mr. Harve Duncan will take pleasure in showing this bull to you if you will call and see him.

The Northern Investment Company, of Williston, N. D., announce in an advertisement on page 29 that they have for sale a well-improved farm of 680 acres, located near a good town in North Dakota. They have a few other choice quarter-section farms and offer any of these at particularly low prices. For additional description write to the Northern Investment Company, Williston, N. D.

The advertisement of the Quicker Yet Washing Machine will be found on page 19. The facts given in this announcement are so complete in every detail that our readers are requested to look it over very carefully. No modern home should be without a washing machine, and this seems to fulfil all the requirements to the last detail. For prices or free booklet with much valuable information write to the Globe Mfg. Co., 420 Rawson St., Perry, Iowa.

Mr. R. J. Kidson, of Pontoosuc, Ill., advertises on page 38 that he has for sale a good Aberdeen Angus bull. This animal is about twenty months old, a smooth, well-formed fellow in fair flesh although not pampered. He carries a good coat of hair, has an excellent disposition and is halter broken. Anyone who wants a good bull at a moderate price will do well to investigate the merits of this one. He can be shipped immediately on any one of three leading lines of railroad. For particulars write to the address named.

Mr. J. G. Truman, manager of Truman's Pioneer Stud Farm, of Bushnell, Ill., writes under date of May 2d, saying: "We have just sold an imported Shire stallion to our old friend, C. C. Judy, of Tallula, Ill. This is the second imported Shire stallion that we have sold to Mr. Judy this spring. Another liberal buyer has been Mr. Alfred Roberts, of Arlington, Iowa. He took an imported Shire, an imported Percheron and an imported Hackney. Messrs. Melvin H. Davis & Co., of Decatur, Ill., bought a Shire, a Percheron, a Belgian and a Hackney. All these were imported stallions and strictly first class."

Mr. E. H. Bodley, of Newton, Iowa, breeds Barred Plymouth Rocks, Single Comb Rhode Island Reds and Mammoth Bronze turkeys. His advertisement of eggs for sale will be found on page 20. With reference to this stock Mr. Bodley writes: "My Barred Plymouth Rocks have been bred pure for the past eighteen years. I have always bought the best when introducing new blood. I have mostly bought from Bradley Bros., as I consider that strain the best in the United States. We have one cock direct from Bradley Bros. in one pen now, and outside cockerels are sired by him. They are exact duplicates of the old bird. Our free-range birds are well-marked, big-boned fellows and will make good birds to improve any farm flock. Our Rhode Island Reds are from winter-hatched pullets and have proven good winter layers, having laid all through the cold weather in January and February. They are of good color and large, hardy fowls. I have won many premiums in the past and keep nothing but the best." Mr. Bodley issues a catalog giv-

ing complete information concerning his flock, which may be had by addressing Mr. E. H. Bodley, Box 29, Newton, Iowa.

Mr. M. B. Wood, of Mankato, Minn., is offering for sale a carload of Holstein-Friesian cows and heifers, as will be noted in the advertisement on page 34 of this issue.

Proud Tecumseh 101353, a splendid three-year-old Poland China herd boar, and a number of fall boars are advertised for sale by Mr. Herman Baltz, of Fremont, Neb., on page 36.

Mr. S. J. Miller, of Kirksville, Mo., makes some very attractive prices on imported Percheron, Shire and French Coach stallions, all fresh stock that Mr. Miller selected personally in France.

In our last issue the address in the advertisement of Messrs. E. W. Davis & Co., breeders of Duroc Jersey hogs, was given as Glendale, Mo. The correct address is Glenwood, in Schuyler county, Mo.

The spavin cure advertised by Mr. F. Young, on page 19, is a thoroughly-tested remedy which has cured hundreds of the most severe cases. It is sold at the low price of \$1. Orders should be forwarded to Mr. F. Young, 9119 Commercial Ave., Chicago, Ill.

Messrs. E. S. and J. A. Buffum, of Leroy, Iowa, breed Jersey cattle, and as noted in the advertisement on page 34, are now prepared to supply customers with cattle of either sex. Write them for prices and descriptions. The herd is one of many years' standing and the proprietors are worthy of confidence.

Mr. W. C. Weber, of Little Falls, Minn., wants to sell a farm of 320 acres located five miles from the county seat, in successful cultivation and in every respect desirable property. Stock and machinery may be taken with the farm at the option of the buyer. Quick action, however, must be taken, as this cannot remain long on the market at the prices noted. See advertisement on page 29.

Mr. C. R. Adams, of Laurel, Neb., has a good herd of Poland China hogs. His spring crop of pigs are the get of Big Surprise, Billy Victor and Monarch Chief. The dams are daughters of Up To Date, Hadley's Expansion, Chief Longfellow, Nebraska Chief and Chief U. S. Mr. Adams has an excellent lot of pigs and hopes to be able to offer them to buyers this fall. Later announcements will appear in these columns.

The Havana Metal Wheel Company, Box 47, Havana, Ill., have an interesting announcement in our columns regularly. It invites attention to the fact that a low-wheel wagon enables a man or two men working together to do more work than the wagon with high wheels. This firm make a specialty of low wheels of wood or metal to fit the gears of any wagon. Our readers should write them for instructions about measurement in order to get wheels that will fit exactly and thus prove satisfactory. See page 26.

The Mondamin herd of Short-horn cattle, at Hinton, Iowa, as advertised on page 34 of this issue, has now for sale a few good young bulls of serviceable age. Messrs. Held Bros., proprietors of the Mondamin herd, have a lot of thoroughly good cattle. Every word they say may be accepted as a fact. They do not ask any extravagant prices for their bulls. Farmers may secure, at farmers' prices, bulls good enough for high-class breeders. Blood lines are good as any to be found. For prices write to Messrs. Held Bros., Hinton, Iowa.

The advertisement of Mrs. C. H. Matteson's Barred Plymouth Rocks, Rhode Island Reds and Indian Runner ducks appears on page 21. The lady advises us that the stock advertised are healthy, having the range of a large orchard. So far eggs have proven from 95 to 100 per cent fertile and the chicks are strong and well marked. The Barred Plymouth Rocks are of the Thompson strain, large birds and splendid layers. The Rhode Island Reds and Indian Runners are fine ones from the Golden Rule Poultry Farm. Mrs. Matteson is located at Decatur, Iowa. She is selling eggs at reasonable prices and guarantees satisfaction.

Mr. Robert A. Schug, breeder of Poland China hogs, at Coleridge, Neb., writes us that he has about seventy head of fall pigs and eighty spring pigs. These are the get of eight different sires of the large type, and their dams represent the leading strains of the breed. These pigs are the get of Monarch Chief, Hadley's Surprise, Chief Nelson, Billy Victor, Gritter's Longfellow, Big Tom and Pawnee's Lad. Mr. Schug has at the present time some choice fall male pigs that will weigh from 175 to 200 pounds and on which he will quote reasonable prices to buyers. His advertisement of the spring crop of pigs will be found in a later issue of The Homestead.

Mr. George W. Speirs, breeder of Duroc Jersey hogs, of Hedrick, Iowa, writes under recent date, saying: "I have about 110 pigs of March and April farrow. A large proportion of them are by Ohio Junior 38521. Several of the dams of these pigs trace to Protection through Ohio Chief and Oom Paul. Others go directly to King Perfection and Crimson Wonder. There are some fine prospects in this bunch of pigs. They have size and quality. Two litters in particular are by Dandy Boy 82574, a grandson of Ambition. Their dams are sows of excellent lines of breeding." Mr. Speirs' herd is one which contains a good deal of very prominent blood. Ohio Junior, the herd boar first mentioned, is by Ohio Chief,

and on the side of his dam traces to Orion and to Colonel M. and Colongues, through the most noted Variety family of brood sows. He is a hog of unusual size, of very large bone and general excellence in makeup. His pigs will no doubt be heard from when selling time comes.

The advertisement of Messrs. W. A. Lang & Co., of Greeley, Iowa, will be found on page 37. These gentlemen are importers and breeders of draft and coach horses of the various breeds. They have been in business for a good many years and have supplied their customers with a very large number of animals of the higher order of excellence. They have today for sale at their barns both stallions and mares equally as good as can be found anywhere else. Descriptions or special prices may be had by writing to Messrs. W. A. Lang & Co., of Greeley, Iowa.

Col. Theo. Martin, live stock auctioneer, of Bellevue, Iowa, whose advertisement appears on page 35, writes us that he has had so many orders for eggs that he cannot accept any more at the present time. With reference to his Poland China hogs he writes as follows: "My sows farrowed an average of nine and one-third pigs to the litter. I have had quality enough to win wherever I have shown. My gilts last year weighed up to 400 pounds at twelve months of age. I have never had such a bunch of prospects as are now coming on, and barring accidents, feel sure that I will be able to offer at my brood sow sale on February 16th a superior bunch of sows."

Man Wanted to Feed Cattle.

Anybody who knows of a good man who can feed cattle for a public sale should write Dr. J. G. Brenizer, of Broken Bow, Neb., as he wants a man at once. It is a good place for the right party.

South Dakota Ranches.

The Freelove-Carter Land & Loan Co., whose advertisement will be found on page 29, announce that they have several good ranches in the vicinity of the town of Kennebec, S. D., which they will sell on easy terms and at low prices. For particulars concerning these pieces of land or other facts with respect to the territory in which they are located, write to the Freelove-Carter Land & Loan Co., Kennebec, S. D.

The Cedar Rapids Jack Farm.

A new advertisement of the Cedar Rapids Jack Farm will be found on page 36. The proprietor advises us that although he has sold nearly half a hundred jacks this season, he still has on hand a few good ones capable of competing in character with any in the United States. He would be glad to quote prices and invites prospective buyers to come to Cedar Rapids and make their selections in person. For catalog giving much additional information write to Mr. W. L. De Clow, Cedar Rapids, Iowa.

A Free Lightning Arrester.

Telephone users all appreciate the safety arising from the use of lightning arresters. One of the most approved arresters on the market today is that which is given free to readers of The Homestead by Messrs. Shrauger, Johnson, Nelson Company, whose advertisement will be found on page 28. They also send a book entitled, "Shocking Facts on Lightning," that gives not only many interesting facts on the subject of lightning, but also describes in full the guaranteed Shrauger pure copper cable lightning rods. Fill the coupon to be found in the advertisement and forward at once to the Shrauger, Johnson, Nelson Company, 101 Shrauger St., Atlantic, Iowa, and the \$2.50 arrester will be sent you free of charge.

Southern Idaho Fruit Lands.

The above is the heading of an advertisement to be found on page 29. This advertisement announces the fact that the Twin Falls Nursery & Orchard Co. are offering for sale five-acre tracts of land in southern Idaho. This land is particularly well adapted to the growing of apples, pears, peaches, raspberries and fruits of like character. Reasonable prices and liberal terms will be quoted. The writer a short time since visited the section in which these lands are located, and vouches for the fact that they are not only adapted to the purpose of fruit raising, but actually growing some of the most excellent specimens he has ever seen. For additional particulars write to the Twin Falls Nursery & Orchard Co., Box 1278, Twin Falls, Idaho.

Long's Big-Type Poland China Boars.

On page 36 of this week's Homestead we begin the advertisement of Mr. Jas. G. Long, Harlan, Iowa, one of the rising young breeders of "big-type" Poland Chinas in Shelby county. Just now he is offering a splendid lot of fall and spring boars for sale sired by such noted boars as B Wonder (his present herd boar), and also by A Wonder, the boar that formerly headed the Wheeler herd and one of the most widely advertised big-type boars in this country today. He also has some good spring boars that are coming on, sired by Orange King and Big Ex. Mr. Long has a splendid herd of sows and a nice crop of pigs. The boar that heads the herd is B Wonder, a son of A Wonder, and out of Lady Mastodon 85th by Columbia Chief 2d. He is a cracking big yearling, big-type, big-boned boar, and should easily tip the scales at 1,000 pounds when matured. One of the best things about this boar is that he is an excellent breeder, and his pigs are looking good. Most of his pigs are sired by this boar, but he also has a spring litter by A Wonder, Orange King and Big Ex. The fall boars that he is offering for sale are an excellent lot,

and there are some boars among these that are good enough to head herds. Write your wants to Mr. Long and kindly mention The Homestead.

Iowa Farmers Buying Many Holsteins.

Mr. J. T. Barmore, proprietor and owner of the Maple Lane Holstein herd, at Monroe, Wis., writes us: "You certainly are doing me a lot of good, for which I thank you. I had no idea I would do the business in Iowa I have done. I ship something there every week."

A Gearless Hay Loader.

The advertisement of the La Crosse Hay Tool Company on page 23 gives a dozen or more reasons why the La Crosse gearless rake and loader is superior to all others. Still more facts may be obtained from the free gearless booklet for which address La Crosse Hay Tool Company, Chicago Heights, Ill.

Why Silage Pays.

The advertisement on page 22 which is illustrated by a reproduction of the cover of the book entitled, "Why Silage Pays," should be carefully read by every farmer who uses, or who ought to use silage. The books mentioned are sent free on request to the Joseph Dick Mfg. Co., 1439 Tuscarawas St., Canton, Ohio.

Tile Machinery.

The general interest in the use of concrete for the various purposes of the farm should interest our readers in the advertisement of the Progressive Tile Machine on page 16. This machine is only one of the various sorts of concrete working machinery made and sold by the Universal Concrete Machinery Company, Federal Bldg., Waterloo, Iowa.

Shetland Ponies for Sale.

If any of our readers want Shetland ponies they will be interested in the advertisement of Mr. H. W. Littleton, of Harlan, Iowa, on page 38. He is pricing these ponies at from \$75 to \$125. He also offers a nice black Shetland pony stud and a two-year-old Percheron stallion for sale. Mention The Homestead when writing him.

The Jones National School.

The Jones National School of Auctioneering is advertised on page 35. This school is under the direct personal management of Col. Corey M. Jones, whose career as an auctioneer has been one of phenomenal success. The school has given high satisfaction to its graduates and promises even greater success in the future. A new term opens July 25th next, as will be noted in the advertisement. For catalog and detailed information write to Mr. Orval A. Jones, manager, 2856 Washington Boulevard, Chicago, Ill.

Brown Offers Good Scotch Bulls.

In a recent letter from Perry O. Brown, of Lamoni, Iowa, he says: "I recently sold one good Scotch-topped bull to Harry Wilcoxen, of Andover, Mo., and one young Mary bull to Loss Leetum, of Lamoni, Iowa. The last one going to head a pure-bred herd. These bulls are sired by Lord Mutineer, a son of the celebrated Imp. Mutineer. I also have a number of good young bulls left, among which are the two splendid Scotch bulls, Royal Lavender and Peerless Athene. Both of these are pure Cruickshank bulls. I will price these very low for quick sale." Write Mr. Brown and get his prices on these bulls or go and see them. See page 38.

Cook's Improved Canadian Farms.

The new advertisement of Messrs. Cook Bros., of Arcola, Sask., Canada, on this page, refers briefly to the fact that the firm have for sale good improved lands at the price of raw prairie. The rates at which these farms may be secured insure the buyer wonderful returns, because within a very brief period of time these lands must increase to a value of from \$50 to \$75 per acre. The lands are located in southern Saskatchewan, close to good towns, in excellent communities, and they are productive and desirable from every point of view. Messrs. Cook make round trip excursions from Des Moines to these lands on the first and third Monday of each month. They have their own special car and afford tourists every convenience at a minimum cost. For additional facts write to Mr. R. H. Cook, 533 Utica Bldg., Des Moines, Iowa.

Sugar Loaf Dueros.

The Sugar Loaf Duroc Jersey herd, at Chillicothe, Ohio, is in flourishing condition. The manager, C. C. Cushman, can be congratulated upon the success he has had with his spring pigs. The herd is headed by Col. S., the 1908 Ohio Chief's Banner, a good son of Ohio Chief. A young boar of much promise is a junior yearling son of Perfect Col., first prize under year boar at Illinois State Fair 1908 and sired by Prince of Cois. This young boar is out of an Ohio Chief sow, which makes his breeding second to none. He will be a hard boar to beat in the junior yearling class this year. Among the good litters on the farm are one by Premier Col., eight by Model Top, out of a Prince of Col. sow; eight by Ohio Chief Banner, out of a Tippy Col. sow; eight by Orion Chief, out of a Macon Chief sow; twelve by Col. S., out of a Crimson Wonder June gilt; a good litter by Col. S., out of an Ohio Chief sow; a good litter by King of Cois. Last, out of a Proud Advance sow, and a nice litter by Col. S., out of a Kruger sow. There are a number of other litters that are good, but space does not permit giving their breeding. If they do not have a great bunch for their fall sale we miss our guess, as Mr. Cushman is one of our best feeders and fitters. If any of our readers need a high-class show boar we would advise them to write Mr. Cushman for price and description of the junior yearling boar by Perfect Col. The announcement appears on page 36.

When writing please mention The Homestead.

Hereford Bulls for Sale.

On page 39 will be found the advertisement of Mr. W. H. Mayne, of Harlan, Iowa, who is offering a splendid three-year-old herd bull for sale in Spartan Kid 2d 288181, also eight young bulls. If you want Hereford bulls you can buy them right of Mr. Mayne. The young bulls he is pricing from \$75 up. Kindly mention The Homestead when writing him.

Holsteins for Sale at Private Treaty.

Those of our readers who want to buy Holstein-Friesian cattle will be interested in the advertisement of Mr. Henry C. Glissman, of Omaha, Neb., on page 39. He is offering sixty cows and heifers and thirty-five choice young bulls at private sale and they are good and bred in the purple. Mr. Glissman's Rock Brook herd is the most noted herd today in the West. Write or go and see these cattle. Kindly mention The Homestead when corresponding with him.

Low Versus High Wheel.

It seems to be a fact that the man with a low-wheeled wagon may do more work with the expenditure of the same energy than with a high-wheeled wagon. This fact is set forth in the advertisement of the Havana Metal Wheel Company on page 26. This firm make a specialty of low wood or metal wheels to fit the gears of any wagon. Instructions concerning the measurements in order to get wheels which will fit well may be had by writing to the Havana Metal Wheel Company, Box 47, Havana, Ill.

The Fly Killer.

Owners of farm animals, and dairymen in particular, will find profit in the use of Shoo-Fly, an effective fly killer advertised on page 14. There is no need of going into details on the subject of the many damages by flies on the farm. Horses, cows and hogs are all the objects of attack and all suffer more or less. This suffering not only reduces the returns from flesh and milk, but causes an irritation and a lack of thrift that must necessarily develop into something still more harmful. Shoo-Fly is a preparation which not only keeps flies and insects off the animals, but has a curative effect upon sores, barb-wire cuts or hoof ailments. It is easily applied with a spray pump or otherwise. It has been in use for a term of twenty-five years and certainly demonstrates its value. If your dealer

addressed to Mr. E. E. Randall, Hustisford, Wis., or Mr. S. E. Jones, Watertown, Wis.

The Cedar Rapids Importing Farm.

A new advertisement of the Cedar Rapids Importing Farm will be found on page 37. This institution handle big Percheron and Belgian stallions and the number now offered for sale includes such a bunch as cannot fail to please the most critical. They are big, heavy, sound and first class in every particular. For special end-of-the-season prices write at once to Mr. W. L. De Clow, Cedar Rapids, Iowa.

Live-stock Artist.

Mr. A. V. Lock, the well-known live-stock artist, of Remington, Ind., writes under recent date as follows: "I will start on my trip among the herds June 1st. Would ask you to kindly announce the fact in an early issue. You may say that I will do work on all different breeds of live stock and go where there is work for me. I will guarantee my work in every respect. My charges are very reasonable. Parties not familiar with my terms may learn them by writing for particulars." Mr. Lock has established an excellent reputation as an artist and those who patronize him may be sure of getting pictures of a satisfactory character. See page 35.

Frank Iams' Offering.

Mr. Frank Iams, of St. Paul, Neb., is still in the business of selling Percheron and Belgian stallions and mares at wonderfully reduced prices. He is saving his customers from \$200 to \$500 on each. This is what he says: "Frank Iams, the importer of 'peaches and cream' Percheron and Belgian stallions, is cutting the 'middle out' of prices on his 'sixty show and business stallions.' Iams has reduced prices on all his imported stallions \$200 to \$500 each and a lady or a boy can buy as cheap as a man of Iams. His '1909 show stallions' and stallions bought for 1910 state fairs, and 'business' stallions all go at prices never before equaled for top notchers. They are 'the cream' of 200 horses. Iams has opened up a 'new barn' of forty 'show stallions' (not offered or seen by the public before), all 'gold medal winners' in Europe; also twenty 'business stallions' selected for 'show horses' in 1910. They are 'peaches and cream,' 'top notchers' and the best bunch of Percheron and Belgian stallions in the United States. These stallions will positively be sold in the 'next sixty days' at lowest prices ever offered for real 'show stallions.' Iams

NEXT WEEK'S SALE PROGRAM

Thursday,	{	Guernseys, Dr. O. N. Johnson, Sec., Appleton, Wis.
May 19		
Friday,	{	Short-horns, W. E. Cutler, Corydon, Iowa.
May 20		

does not happen to have it on hand orders may be sent for it to the Shoo-Fly Mfg. Co., 1328 North 10th St., Philadelphia, Pa. Enough of the preparation to protect 200 cows and a gravity sprayer will be forwarded postpaid for \$1.00.

An Attractive Holstein-Friesian Sale.

The advertisement on page 39 gives but a few hints of the extraordinary consignment of Holstein-Friesian cattle that will be driven into the sale ring at Watertown, Wis., on Wednesday, May 25th. Particular endeavor has been made to put into this sale only the better class of cattle of the breed. The 116 head selected include ninety-five choice young females and twenty-one bulls of serviceable age and calves. These are suitable not only for the farmer, but for the breeder, and indeed for those who are looking for show-yard character. Nothing of an ordinary or inferior sort will be permitted in the sale. The contributions come from such herds as those of Messrs. E. E. Randall, Hustisford, Wis.; S. B. Jones & Son, Watertown, Wis.; A. W. Luedke, Watertown, Wis.; W. A. Canniff, Watertown, Wis.; S. S. Cramer, Milwaukee, Wis.; W. H. Jones, Juneau, Wis.; Aug. Knospe, Juneau, Wis.; S. H. Bird, South Byron, Wis.; S. M. Randall, Wau-pun, Wis.; E. E. Ryder, Hustisford, Wis.; John Seefeldt, Hustisford, Wis. These gentlemen are all prominent breeders, leading members of the Holstein-Friesian Association of America, and their statements concerning the cattle to be sold may be accepted as facts. To show that it is no ordinary offering, the announcement is made that some of the two-year-olds show official tests of twelve pounds, while the test of matured cows reached the excellent figure of 29.42 pounds, and thirty-day tests show a result of 120 pounds. The established value of the Holstein-Friesian breed to the dairyman needs no reference from us. It is generally accepted. Farmers who are inclined to turn from ordinary cattle raising to the dairy have a prospect of a more certain and liberal income and can certainly find no breed of cattle that will be equally as serviceable as those consigned to this sale. There is in addition the advantage that the sale is made after the cost of winter keeping has been incurred and when the time of grass and pasturage is at hand. Catalogs of this sale are now ready and may be had by sending postal card

has "lifted the lid" and "reduced prices \$200 to \$500" on "show and business" stallions. Iams' forty prize medal winners at Paris and Brussels and leading European horse shows and all his largest and best stallions are still in "Iams' big barns," fully acclimated and all in the "pink of condition" and must be sold. "Ikey boys," get into Iams' "money-saving game." Buy a stallion and save \$1,500. Iams "tickles" buyers with "rippers" at "let-live prices." Owing to bad crops, panic, Iams' cash, his twenty-eight years' experience in successful business, he bought and sells horses cheaper than ever. Mama, Iams is a "hot advertiser," but he "has the goods" and sells horses at his barns only. Buyers get the "middleman's profits" at Iams'. Iams has sixty Percherons and Belgians, two to six years old, weighing 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent ton horses. All registered and branded. Iams sells choice of all his "show and business" stallions at \$1,000 and \$1,500 (bar four), so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance. Buy "show stallions" of Iams at same price others sell "culls." Ikey, what a "graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000. Mr. Buyer, see Iams' stallions yourself. Take no salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams "saws wood," "butts in," sells more stallions each year. He makes every statement good. "Big Bill" buy a stallion of Iams. His \$1,200 stallions are very much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 and \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by half a million dollars. Write for million-dollar horse catalog,

CANADA LAND

I have about 45 ready-made farms at prairie prices. Rich soil, good water, prosperous district, good schools, churches. About 30 of these are within 2 to 5 miles from good markets. For further particulars see advertisement in issue of May 5th or write to

Cook Bros., Arcola, Saskatchewan, or R. H. Cook, 533 Utica Bldg., Des Moines.

greatest on earth. References: First National Bank and Omaha National Bank, Omaha, Neb., St. Paul State Bank and Citizens National Bank, St. Paul, Neb.

Judith Basin Lands.

Lands in the Judith Basin of Montana have the reputation of being particularly adapted to the production of wheat. We have figures from a dozen or more farmers reporting yields on tracts of from twenty acres up to full quarter sections, from which the average has been more than forty bushels per acre. These lands are advertised by Stoner's Land Agency, Lewiston, Mont., whose announcement will be found on page 29. Our readers who may be interested either in direct purchase or in taking a homestead should secure the information that can be furnished by the firm in question.

Quietdale Aberdeen Angus Sale.

Admirers of Aberdeen Angus cattle will no doubt take a special interest in the announcement of Mr. H. J. Hess, of Waterloo, Iowa, on page 40, that he will make a public sale on Tuesday, May 31st. The sale will include fifty-eight head of cattle, seventeen bulls and forty-one females. A representative of The Homestead, who visited the herd recently, pronounces the consignment one of the best that has been under his observation for some time. The lot will include such popular families as Trojan Erica, Blackbird, Pride, Queen Mother and Heatherbloom. It is not a culling out process, but, as Mr. Hess states in his catalog announcement, an honest division of the entire herd, not only with reference to numbers, but particularly as to individual quality. The herd is one of high standing. It was established on a foundation of real value and has been maintained by close selection and an occasional addition of some animals of more than ordinary merit. At the present time the herd is in a clean, thrifty form, such as will please the eye of the practical cattle man. They have not been overfleshed nor yet have they suffered from the influences of the past severe winter. The entire consignment is an unusually strong one. Several of them are good enough to head high-standing herds and others are notable for their strong show-yard proclivities. The females are practical producers. Many of them will have calves at foot sired by the great herd bull, Ebony of Quietdale, concerning which some information was given in our last issue. The heifers sired by him will have been bred to the K. Pride bull, Kandahar of Quietdale 94214. Detailed information concerning this offering will be given in later issues of The Homestead. In the meantime our readers are advised that catalogs are now ready for distribution and may be had by writing to Mr. Harvey J. Hess, Waterloo, Iowa.

Kraschel's Good Herd.

Trade has been good with Mr. M. A. Kraschel, of Macon, Ill., this spring and he has nothing to sell at present but one or two fall boars by King Col. by King of Cois. Mr. Kraschel sold King Col. to Mr. Penry, of Radnor, recently, and now, since his produce is developing so well, he is sorry he sold him. But what Mr. Kraschel lost Mr. Penry has gained. Helen's Chief was purchased from Messrs. Turner & Sons to assist High Notcher and Glad Col. in the herd. This leaves the Kraschel herd very strong on herd boars, as High Notcher still wears well and breeders well know his value as a producer. Glad Col. is by Col. Gladness, as his name indicates, and we predict this boar will make good. Helen's Chief is by Ohio Chief, dam Helen Blazes III., the great producing dam that was the first sow to sell for \$1,000. Helen's Chief won third at the Illinois State Fair as a senior pig and headed the second-prize young herd and was not fitted for show. Helen's Chief became popular among the leading breeders of Durocs on account of the high-class stuff he sired, and several tried to buy him, but Mr. Kraschel beat them all to him and he also purchased sixteen senior gilts by him of Mr. Turner. These gilts are exceptionally fine. A show herd is being fitted for the fall shows and we consider them the best lot by far that Mr. Kraschel ever started toward the state fair circuit and he always has some winners and is a prominent factor to reckon with. The herd this year is sired by Mr. Kraschel's herd boars, mostly High Notcher, Macon Chief, Helen's Chief and King's Col. The second-prize male of the 1909 Illinois State Fair is looking fine and will make the boys go some if he fits out good. He is by Macon Chief by Ohio Chief and his dam is an Orion-bred sow. He has a cracker jack senior male pig by King's Col. An aged sow of much substance and quality is by Ohio Chief and she is a litter mate to Vanity Fair, champion of the 1908 Illinois State Fair. A crack senior yearling sow is by Helen's Chief. Three choice junior yearlings are by Macon Chief. Look out for this trio. The senior gilts are by King's Colonel and are also good. Mr. Kraschel has thirty head of senior gilts by Helen's Chief, High Notcher and King's Col. that are good to look at. The spring crop of pigs is coming on ne. Two litters by Prince of Cois. are nice.

Look up Mr. Kraschel's advertisement on page 36 of The Homestead and write him your wants.

Low-Priced Separators.

The advertisement of the Cedar Rapids Machinery & Supply Co., on page 14, announces that for a limited length of time that concern will offer for sale a carload of Omega cream separators at prices ranging from \$33 to \$43 each. The Omega is a well-known machine. It does its work well, quickly and easily. It is so well known, in fact, that everyone who notes the special prices should forward an order at once to the Cedar Rapids Machinery & Supply Co., Cedar Rapids, Iowa.

Missouri Land Overlooked.

There has not, until recently, been any consistent and concerted action on the part of the proper authorities to advertise Missouri land. This has resulted in very fine and cheap lands being overlooked by homeseekers and investors. Missouri is so centrally located among the grain and stock states that land values must enhance very rapidly. Great enhancement is taking place now. In this connection we call attention to the fancy stock farm, advertised by Mr. J. H. Lipscomb, of Kansas City, Mo., on page 29 of this issue. It must be that when good farm land, well located, one-half tillable and one-half fine blue grass land, can be had for \$25 an acre that the buyer will make no mistake.

Do You Need Seed Corn?

The Messrs. Petty Bros., of Liberty, Mo., seed corn specialists, are prepared to furnish to our readers two varieties of yellow corn, Petty's Eclipse, Petty's Early Dent and a white variety known as the Clay County White. Their early dent corn matures in 110 days, Petty's Eclipse is a large, ninety-day corn and the Clay County White matures in about ninety-five days. Every bushel of the corn Messrs. Petty Bros. offer was produced on their own farms and last year in their locality farmers were especially favored with seasonable weather for the production of corn, so that Messrs. Petty Bros. have an exceptionally strong lot of seed corn. They have grown these varieties and kept them pure for fifteen years and the writer, who has inspected their corn, takes pleasure in recommending it to Iowa, Nebraska, Missouri and Kansas farmers who want a hardy, heavy yielding corn. They have used every care in selecting this corn at gathering time and have graded every bushel so that they know every order will be satisfactory. Their high grade is sold at \$2 per bushel, extra select at \$2.75 per bushel and crated ears at \$4 per bushel. Any of our readers needing seed corn need not hesitate to send their money for as many bushels as they need, for he will get in return seed corn that will grow and corn that is heavy yielding and true to type. Address Messrs. Petty Bros., Box 4, Liberty, Mo., and tell them which corn you wish and they will fill your order the day it is received.

Rock Brook Holsteins.

Mr. Henry C. Glissman, proprietor of Rock Brook Farms, at Omaha, Neb., writes as follows: "I have just returned from the East with the largest shipment of registered Holstein-Friesian cattle that were ever brought into this state by one man or firm. The shipment consisted of five carloads, 120 head, of all ages and sexes. Sixty of these are cows and heifers, all of good age and individuality, and either milking or bred. Thirty-five are bulls from four to eighteen months old, a lot of them ready for service, and the rest soon ready for service. The balance are younger calves of both sexes and a few heifers six to eighteen months old. In all, they are a high-class lot and I am now ready to fill orders for anything my customers may want, and I am sure that the same quality and breeding has never before been offered at the prices I am quoting anywhere in the West. The demand for stock from our herd has grown to such volume that the natural increase from our herd of 100 head is not nearly enough to satisfy the demand, so I have brought out these cattle to satisfy the demand, and assure all intending purchasers that the same liberal guarantee and the high standard of excellence will be maintained in the cattle that I am selling, as in those that I have raised and sold in the past. For the benefit of those to whom our herd is not so well known, I will state that Rock Brook herd was established in 1885 by my father, who is still associated with the management of the herd, and it has always been our aim to raise the best. We raised the following cows now owned by the Nebraska State Experiment Station, all of which have large A. R. O. records: Karen 11, mother of Katy Gerben, that holds a world's record for production as a three-year-old; Roxanna, one of the most typical cows ever owned there, and Henrietta, another heifer with a good record. In the Nebraska Dairy-men's Association test, that has been carried on for the last three years, I won the test of 1907 with one of our cows. I bought the winner of the 1908 test, won the 1909 test with one of our cows, and this year the cow that is holding first was bred and raised and sold to the present owner by us. We are giving this cow a good, close rub with Wayne, another cow out of our herd. These cows are in competition with all breeds and every year so far the test has been won by a Holstein, and these Holsteins all were or are owned at Rock Brook Farms. I am making special prices for the next few weeks, as I must sell at least eighty head to get the herd down to the capacity of our pastures." Don't lose

any time in going to see these cattle, and when writing Mr. Glissman kindly mention The Homestead. Read his advertisement on page 35.

Ideal Country Homes.

One of the features that go to make up an ideal country home is a heating and ventilating system which provides at once sufficient heat for comfort, and ventilation that supplies an abundance of fresh air. These are best secured through the use of the Twentieth Century furnace, as advertised on page 27. Those who contemplate building or whose homes are not supplied with means of heating, should write for Booklet No. 38 on "Ideal Homes." It is sent free to readers of this paper. Address request to the Twentieth Century Heating and Ventilating Company, Akron, Ohio.

A Big Business.

The Electric Wheel Company have an attractive advertisement on page 11. It will scarcely be necessary to inform readers of The Homestead of the business of this company. Their electric wheels are known over the entire world. Electric steel wheels are low wheels made to fit any wagon, can be put on in a hurry, are strong and durable and provide a low-down wagon that saves two-thirds of the back-breaking work of the farm. If you want to know more about these wheels and other facts in connection, fill out the coupon to be found in the advertisement and forward to the Electric Wheel Company, Box 58, Quincy, Ill.

Last Call for the Cutler Short-horn Sale.

On May 20th, at his well-known Canna Hill Farm, Mr. W. E. Cutler, of Corydon, Iowa, will make a sale of forty-five head of Scotch and Scotch-topped Short-horns. In previous issues of this paper we have reviewed his offering in detail, and we take it for granted that our readers have become familiar with his herd and also what he will offer in this sale. However, we again want to call attention to his splendid Broadhooks bull that he will sell at this time. This is Champion Commodore 287299, a son of Young Commodore, that for years headed the Cookson herd at West Branch, Iowa. He is out of the great cow, Imp. Scarlet Bangle, considered to be one of the best Short-horn cows today in the state. Mr. Cutler bought this bull when a calf from Messrs. Cookson Bros. and has since used him with the utmost success in his herd. His full brother, King Broadhooks, sold in the Cookson sale for \$450 as a yearling, and his two-year-old brother, Admiral Broadhooks, sold in the McCorkle sale for \$400 last fall. The man who wants a herd bull should by all means attend this sale. There will be a number of young Scotch and Scotch-topped cows in the sale and a splendid lot of Scotch and Scotch-topped females. It will be a most excellent time and place to buy some good Short-horn cattle. Parties coming from the north should go to Chariton, Iowa, and stop at the Bates House and free conveyance will be had to convey them to the sale the following morning. Parties coming from the south should go to Corydon, Iowa, where the same accommodations will be furnished. When writing for catalog of this sale kindly mention this paper. See page 38.

King's Col. Boars For Sale.

Mr. Arthur L. Parks, of Leland, Ill., has a change of advertisement on page 36 of this issue. He is back from Florida much improved in health and finds he has thirty fine fall boars and ten gilts that he can spare. This stuff is all sired by Col's King. They weigh upwards of 200 pounds and are not fat, just in nice growing condition and are ready for immediate service. They are the big kind and chock full of quality at that, but it's the way they are bred. Their sire, Col's King, is by King of Cols., dam Chief's Bunketta by Ohio Chief. This makes him a full brother to the champion Chief's Col. sow and he is also a litter mate to King De Col., one of the best Col. boars in Ohio today, and barring accident will make the boys step some at the big shows this fall. But he will have a foe worthy enough to make him step some in his litter mate, Col's King, as Mr. Parks is feeding him for the big shows and he looks like a show boar in every sense of the term. If Col's King wins, will not a son of his be a nice thing in your herd? Even if he was never shown his get are valuable, as they are bred right and are the right kind. These fall males and gilts are out of Arthur's Choice, Proud Advance, Commodore, Inventor and Tokio Paul dams. The boar, Arthur's Choice, is also offered for sale, as Mr. Parks has used him so much and has lots of his blood on hand. This is a boar of great size, weighing in breeding condition over 800 pounds. He was first as a pig at Illinois State Fair, also in first-prize litter, first and second-prize young herds, and in 1909 not in show form he was fourth-prize aged boar. He is offered for no fault, but has been used so long in his herd that Mr. Parks must have a new boar. It speaks well of him as a sire that Mr. Parks should retain so much of his blood in his great herd. If you need a herd boar he should be a good buy. He is by What You Say by Proud Advance. The spring crop of pigs number 160 head and are by King's Col., Arthur's Choice and Jack Orion, out of dams by Col's King, Arthur's Choice, Proud Advance, Inventor, Commodore, Tokio Paul, Orion Chief, Paul's King, Prince Wonder and Col. Gladness. The herd is in fine, thrifty condition that we like so well to have them and as Mr. Parks knows so well how to keep them—just in ideal breed-

TOO LATE TO CLASSIFY.

MONDAMIN SHORT-HORNS

WE now offer three yearling bulls at prices that will induce men to buy. Two red ones by Valiant Jr., a roan by Gwendoline's Boy. Also some choice younger calves by same sires for sale. Visit or write us. Address **HELD BROS., HINTON, PLYMOUTH COUNTY, IOWA.**

ing condition. Mr. Parks is strictly reliable and a safe man to buy from, as he always makes good with his customers by doing just what he says he will, and in describing a pig the customer always finds the pig even better than he says.

The Wixcel Hay Loader.

The close approach of the haying season makes it essential that those who have not yet provided themselves with the machinery should do so without delay. An important machine in the hay field is the Wixcel No. 2 steel frame hay loader, which is fully described in the advertisement on page 10. This loader is sold direct to farmers and at prices which save money. It is guaranteed in every respect and has an excellent reputation. If you want to know all about it, write for Hay Loader Booklet No. 2, to the Wixcel Mfg. Co., Dept. 1, Marcus, Iowa.

Perfection in Lightning Rods.

Of course, there is no such thing as absolute perfection in a lightning rod any more than in anything else, but there is a comparative perfection, and this is possessed in the highest degree by the King Lightning Rods as described in the big announcement to be found on page 7. The King rods



have been brought to their present high state of perfection through constant and patient work. As the basis of their high merit only the very best obtainable quality of copper is used. This is guaranteed to be better than 99 per cent pure. The cable is composed of thirty strands of this pure copper. The purity of the metal and the multiplicity of strands combine to give it the highest possible degree of conductive capacity, that is, it has the capacity for carrying off quickly the largest possible charge of electricity with which it may come in contact. The King rod is practically the same as that with which all government buildings are protected. The King rod is sold under a guarantee with \$50,000 back of it. It is endorsed by more than 30,000 farmers who have it in use on their buildings. It is appreciated by insurance companies to the degree that they make special rates to those whose buildings are protected by it. The illustration which accompanies shows a roll of the King rod. Our readers who are not fully posted on lightning rods and their advantages can easily secure any further information from the handsome little book entitled "Lightning Facts," published and sent free to all readers of this paper by the Geo. M. King Manufacturing Co., 701 Walnut St., Des Moines, Iowa.

Hendershot's Horses and Farms.

A representative of The Homestead recently called on Mr. O. P. Hendershot, at Hebron, Neb., the noted breeder and importer. Hebron is in Thayer county, in the very southern part of the state. This city comprises some 2,500 people and, while it has many natural advantages, yet it has taken a good class of men to make a city like Hebron is today, and it is doubtful if any one has done more toward this end than Mr. Hendershot. When we first arrived at Hebron, Mr. Hendershot was at the farm. After a few minutes' pleasant conversation over the telephone he said he would come in after us. We busied ourselves about the barn, helping the sturdy Scotchman in charge of the city barn take care of the different stallions. There are some of the best Percherons in this stable that we have ever seen, and one of the noblest Coach stallions to be found anywhere. Presently that very busy person, Mr. Hendershot, arrived with a one-horse runabout. We climbed in and started for the farm. Crossing the Blue river, we found ourselves viewing one of Mr. Hendershot's many farms, and a grand one it was, too. Alfalfa on this date (April 27th) is ten inches high and looks very green and thrifty. The hard frosts that have visited many sections do not seem to have injured it here. Presently we came to where a force of men and teams were planting potatoes. Characteristic of all of Mr. Hendershot's work, this was being done with the most approved machinery and splendid teams. A potato planter of the latest pattern was drawn by four very fine Percherons, while four more furnished the power for a nine-foot disk. The soil was in the very finest tilth that it is possible to obtain, due in no small part to the scientific methods of culture and rotation practiced here. We drove slowly up the well-kept road, flanked on either side by wide fields of alfalfa or wheat. The alfalfa looked fine, but the wheat in some instances had suffered by the unseasonable weather. On arriving at the barns we found one of the greatest strings of draft colts that we have ever seen. There were yards and stables of young stallions, also of young fillies. These colts are an exceptionally strong lot and, while not in high flesh, they are strong and well grown, the very kind to make the most useful horses to be had. After inspecting these different lots, in each of which there were too many good ones

Registered Jerseys

GILT EDGE butter stock; young bulls ready for service and cows that make good. Up-to-date breeding, sound and desirable. For sale by E. S. & J. A. Buffum, LeRoy, Decatur County, Iowa.

HOLSTEINS

Carload choice females; cows, springing heifers, heifers not bred. Address M. B. Wood, Mankato, Minnesota.

to give them special note, we went to the pasture where some 100 mares and fillies were feeding. Here we found some of the grandest mares and two-year-old fillies that we have seen in a long time. They were fully as good, it seemed, as the young fillies at the barns, and all were in fine condition. After looking them all over thoroughly we started for the train. Anyone in need of a first-class stallion or a team of mares should not forget that here is one of the greatest breeding establishments in the West. A trip to visit these great farms and their busy owner will never be regretted. Further particulars regarding the stock for sale will soon appear in The Homestead. It will be to your interest to watch for it.

Savage's Heavy Sales.

A recent communication from Mr. M. W. Savage, proprietor of the International Stock Food Company, at Minneapolis, Minn., advises us that the business of that concern has had a tremendous growth during the past year. The demand for goods was so great that in the winter and spring just closed there was a continuous increase in the number of employees of the factory and business office, until nearly 900 people were on the pay rolls. In spite of that large force, however, it was necessary for many weeks to maintain a night force in order to keep up with the constant demand from all parts of the United States. Mr. Savage is to be congratulated on the wonderful success which he has gained in the twenty years in which he has been producing the national stock food.

Escher's Great Aberdeen Angus Sale.

The annual sale of Messrs. Chas. Escher & Son, from their famous and justly celebrated Longbranch herd, will be held this year at South Omaha, Neb., on June 1st and 2d. Owing to the difficulty of reaching Longbranch, when the weather is bad, they have decided to hold this sale at South Omaha. They will offer at this time 120 head, comprising all the leading and popular families, as well as a choice lot of individuals of other well-known tribes, and therefore there will be cattle in this sale for everybody—both the breeder who is seeking breeding cattle and the farmer who is looking for cattle to put on his farm as a beef-making proposition. In no other Aberdeen Angus sale this year will there be such an opportunity to buy high-class cattle as will be offered at this time. The name of Messrs. Chas. Escher & Son and their famous Longbranch herd is recognized the world over as one of the greatest of the present time. It is indeed with pleasure that we point to the large number of high-class herd bulls at the head of this noted establishment, and in no other herd in America can such an array of herd bulls be seen. First and foremost is Imp. Earl Erica of Ballindalloch, a bull bred by the late Sir George McPherson Grant. He is a double-bred Erica of the Elsie branch, and he had for a sire the celebrated bull, Ebblamere by Delamere. He is one of the greatest Trojan Erica bulls that has ever been imported to this country and as a sire of high-class cattle we seriously question whether he has an equal on this side of the water. His get in several of the late sales have commanded the high prices and have been in demand by the best of breeders. There will be quite a number of his get in this sale. Then comes Imp. Kanimura of Ballindalloch, a son of Delamere and a K. Pride. There will be quite a number of his get in the sale, among which are some of the best things to be offered, and he will also be sold at this time. It will be remembered that last year this firm imported four or five young bulls and this is the reason that they can now spare this bull. The other young bulls that they are now using are Imp. Eston of Ashatt, Imp. Everett of Maisemore, Imp. Eurotas of Finlarig, Imp. Prince Felix of Ballindalloch, Sir Blackbird and Kelberg, and the females that will be offered will be bred to these bulls. Here is an array of high-class herd bulls, the like of which has never been seen before in one herd in this country. In their advertisement which appears on page 40 Mr. Chas. Escher, Jr., sums up their offering as follows: "We are offering 120, the tops of Great Britain and America's best, and the blend that comes from the uniting of both; thirty-three Ericas, the grandest offering of this, the greatest tribe of the Aberdeen Angus breed that has ever been offered in America in any one sale; eighteen Blackbirds, representing all the branches of America's most noted family; twelve Heatherblooms, representatives of this family which is noted for real scale and quality; twenty Prides of Aberdeen, members of this family which have made Angus history from Wm. McCombie's day to the present time; twelve Queen Mothers, descendants of the grand old cow, Queen Mother, the queen of all Angus cows;

last, but not least, twenty-five representatives of the good old standard families, the mothers and sisters of our prize-winning steers, and as the ultimate of all beef is the barrel, what more do you wish than an opportunity to secure foundation females that have produced the grandest specimens of prime beef in America. If in need of a herd bull or foundation females or fresh blood to add to your herd, no matter where you are located in this country, it will be to your interest to be present at this sale, as the large offering insures bargains in plenty." In round numbers there will be 120 head in this sale, among which will be fifteen bulls. They are selling thirty-three head of Trojan Ericas and eighteen Blackbirds, every one of which is sired by an imported bull or out of an imported dam, and the greater number of these are safe in calf to an imported bull. There will be fifty calves at foot, which testifies to the prolificacy of this herd. The Heatherbloom, Pride, Queen Mother and other families are strictly first class in every way and on the whole it is an offering that will commend itself to the most exacting breeders of Angus cattle. There will be a grand good lot of bulls in this sale, such as Imp. Kanimura of Ballindaloch, one of their main herd bulls; Sir Blackbird, a four-year-old son of the noted show and breeding bull, Woodlawn Blackbird Lad out of Mr. Ed Davis' noted show cow, Blackbird Favorite 2d; Black Justice 2d, a two-year-old by Imp. Black Jester of Ballindaloch; Erston, an eleven-months-old son of Imp. Earl Erica of Ballindaloch out of Imp. Aurora, and he is one of the best young Erica bulls that will be offered in any sale this season. Besides there are a number of other very promising young bulls that are good enough to head herds. If you are thinking of buying Angus cattle there never was a better time nor place than in this sale of Messrs. Escher & Son. Their illustrated catalog is now ready for distribution and will be sent out on application to Messrs. Chas. Escher & Son, Botna, Iowa. Kindly mention The Homestead when writing for it. See page 40 for his advertisement.

The Havenhurst Short-horn Sale.

Dr. J. G. Biller & Son, proprietors of the Havenhurst Short-horn herd, at Hartington, Neb., announce that they will make a public sale on the 2d day of June, the sale to take place at Crofton, Neb. This offering will include forty head of Scotch and Scotch-topped cattle. Thirty-two of these are cows and heifers varying in age from quite young heifers to matured cows, and of the latter, ten will sell with calf at foot. There will be ten straight Scotch-bred cattle in the sale belonging to such families as the Nonpareil, Matchless, English Lady and Gwendoline. There will be a number of daughters of that great old champion, Choice Goods. The calves in the sale will be the get of Archer, Bold Archer and The Callant. These three are herd bulls in service at Havenhurst, and in the opinion of the writer they are not surpassed by any three bulls of the breed in any one herd in Nebraska. Archer, the first named, is a son of Imp. Collynie and his dam was that splendid cow, Circe 3d. This bull has attained distinction as a getter of show cattle. He is the sire of the champion cow at the Nebraska State Fair of 1909. The Callant is a son of Avondale, he by the noted Whitehall Sultan. His dam was the imported cow, Rosewood Pride. The Callant was shown as a calf and succeeded in winning first prize at seven different state fairs in addition to the American Royal in 1908. Bold Archer is by Imp. Straight Archer, and his dam was Mary Ramsden by Gold Digger. Bold Archer is three years old and one of the best sons of his great sire, a bull that for a time headed the Clarke herd of Minnesota, and sired most of the great show herds sent out by that firm in 1907 and 1908. Bold Archer is half-brother to Merry Maid, the two-year-old heifer that brought the extraordinary price of \$1,450 at the Searle dispersion sale. Bold Archer is included in the sale. He is red in color, has an excellent head, with drooping horn, weighs 2,400 pounds and is one of the best straight Scotch-bred bulls that will go into a public sale this year. As a herd header he should be given careful investigation. There will be three other straight Scotch bulls in the sale. Additional facts concerning this sale will be given in a later issue of this paper. It is a matter of additional interest that on the following day, June 3d, a breeders' combination sale, under the management of the American Short-horn Breeders' Association, will be held at Rapid City, S. D. See page 40 for advertisement.

LIVE STOCK AUCTIONEERS.

CAREY M. JONES
LIVE STOCK AUCTIONEER
2856 Washington Blvd., CHICAGO, ILL.
Phone West 1228.

Geo. W. Dykes Live Stock Auctioneer.
DANA, ILL.

Geo. P. Bellows Auctioneer
Pedigreed Live Stock
Maryville - Mo.

A. C. Manifold Auctioneer
Turkio, Mo.
Pure bred sales specialty

W. D. STOLLER, Auctioneer
Live Stock a specialty. Address R. 6, Vinton, Ia.

SILAS IGO, Indianola, Iowa
Live Stock Auctioneer. Write me for date.

HOLSTEINS

BULLS—COWS—HEIFERS

THIRTY-FIVE BULLS from 4 to 18 months old at \$40 to \$100; 15 bull calves, 1 to 4 months, \$30 to \$50 each; 50 cows, 3 to 7 years, all milking or soon fresh, a lot of them in calf to some of the best bred bulls in the East and grand good individuals, with producing qualities—prices \$150 to \$200; 30 heifers and heifer calves from 4 months to 2 years old, prices \$60 to \$150. Come to the Holstein headquarters of the West and buy the best. Every animal tuberculin tested and sold under a positive guarantee. Address

ROCK BROOK FARMS
HENRY C. GLISSMAN, Proprietor.
STATION B OMAHA, NEBRASKA.

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ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

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CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

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STERLING, ILLINOIS.
Fifteen years' experience
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Write for Terms and Dates.

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GRINNELL, IOWA.
Live Stock Auctioneer

Breeder of registered Belgian horses.
Ask my customers. Write me.

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AUCTIONEER AND EXPERT JUDGE.
Have judged at Illinois and Iowa State Fairs. Have sold for the best breeders of the central West the past three years and have them rebooked. Posted on pedigrees and values. Sales made anywhere. Terms \$20 and expenses. I always deliver the goods. Write me for dates at Sunny Hill, Ill.

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SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed.
W. F. STRATTON, CAMBRIDGE, IOWA,
Breeder Short-horn cattle and Duroc Jersey swine.

O. L. MOSSMAN, MASON CITY, IA.
LIVE STOCK AUCTIONEER

Thoroughly posted as to pedigrees and values.
Write for dates. Terms reasonable.

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THE President of Jones' National School of Auctioneering is one of America's leading Live Stock Auctioneers. While he gives the school his personal attention and instruction he is only one of fourteen instructors and lecturers of national reputation employed for the coming term of five weeks opening July 25, 1910. Actual practice required at the school before diplomas are given. For catalog and information address

ORVAL A. JONES, Manager,
2856-2858 Washington Blvd., Chicago, Ill.



FRED REPERT,

DECATUR, IND.
Live Stock Auctioneer.

Cattle Sales a
Specialty.....

Write for Dates and Terms.

LEARN AUCTIONEERING

And make from \$10 to \$50 per day. We teach by mail or here in school. 121 students attended January term 1910. The largest school of the kind in the world. Free catalog for either course, Which do you want?

MISSOURI AUCTION SCHOOL,
W. B. Carpenter, Pres., Trenton, Mo.

G. C. EVANS

North English, Iowa.

Live Stock **AUCTIONEER**

SALES made anywhere.
Reasonable terms. Have
pleased others; can please you.

Write for Dates.

Col. C. W. Smith

LIVE STOCK AUCTIONEER

POSTED on breeds and values. A live wire on block or on the ring. Make your next date with me. Terms reasonable.

FAIRBURY, NEBRASKA.



PLINY NICHOLS

WEST LIBERTY, IOWA.

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SALES made anywhere. Reason-
able terms. I also breed Poland
Chinas and Short-horns.

W. K. HENSS, WAYLAND, IA.
LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

THEO. MARTIN
Live Stock Auctioneer. Bellevue, Iowa.

LIVE STOCK ARTISTS.

A. V. LOCK, REMINGTON, INDIANA.
Live Stock Artist. Write me.

YORKSHIRE SWINE.



Large Yorkshires

Champion Herd of U. S.

Special offering now 128 gilts, 9 to 12 months, guaranteed safe, due last of March to June, now ready for shipment; weight 200 to 375 lbs., prices f. o. b. \$40 to \$75 each, depending on size, quality, age and date of breeding. Also 20 sows of fall litters at \$25 each. Order early, as demand was never so strong.

Thos. H. Canfield, Box 7 Lake Park, Minn.

DUROC JERSEY SWINE.

20 DUROC JERSEY

FALL BOARS

Sired by Shabona, he by Highland Duke by Chief of All, dam Lady Chief by Golden Crown. The dams of these boars are by Ambition, Cash Register, Big I Am and Tip's Pride. Write for description and prices to

W. R. CHILDS, PRINCETON, ILLINOIS.
When writing, kindly mention The Homestead.

Fall Males and Gilts

FOR SALE

Sired by Defender and others out of the dam of Defender. Prices reasonable for such breeding and stuff of much quality. Mention The Homestead.

FRED BROWN, LOAMI, ILLINOIS.

20 Duroc Boars 20

Got by King of Cols. II. and G. C.'s Col. Dams are Model Chief Again sows. All are good, of summer and fall 1909 farrow. Spring pigs doing fine. Address

FRANK ELDER, GREEN, KANSAS.

30 Duroc Gilts 30

Summer and fall farrow. Sired by G. C.'s Kan. Col. Bred to son of King of Cols. II. and W. L. A.'s Choice Goods dam, few to Nebraska Wonder, Crimson Wonder's best son. Also fall boars, same breeding.

CHAPIN & NORDSTRUM, Green, Kan.

BUY A BOAR NOW

FOR SALE

FIVE fall boars. Choice, growthy fellows by Hard Advance by Harding's Proud Advance; dams by Pilot Lad II. by Checkmate, second in class, World's Fair, St. Louis. These are big enough for immediate service. In writing, mention this paper.

H. K. RAY, KEWANEE, ILLINOIS.

FOR SALE

10 FALL DUROC MALES

By Rose Chief by Belle's Chief by Ohio Chief, dams of Proud Advance and Pilot Wonder breeding. These males are ready for service and the prices are right. Write for prices and description, mentioning The Homestead.

W. A. FELL, CAMBRIDGE, ILLINOIS.

HUFF'S DUROCS

HUFF'S Advance, Brighton Wonder, Buddy's Improver. A few choice September boars for sale. The "Always Better Kind."

C. W. HUFF - MONDAMIN, IOWA.

FOR SALE—20 FALL SOWS Bred to the champions, B. & C.'s Col. and Crimson Wonder III. They are sired by B. & C.'s Col., Col. S. and McNeil's Model. Price \$50 to \$65. First come, first served.

Address **Ed. A. Baxter, Pawnee, Illinois.**

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Ed. A. Baxter, Pawnee, Illinois.

Ed. A. Baxter, Pawnee, Illinois.

DUROC JERSEY SWINE.

MODEL WONDER Fall Boars For Sale

We have a few very choice fall boars for sale. One herd header of much quality out of Chief's Jewel, champion sow Iowa State Fair, 1909. Others out of Proud Advance and Top Notcher Again dams. For prices and description address

HANKS & BISHOP,
NEW LONDON - IOWA.

HIGH CLASS DUROC JERSEY BOARS

I have five September boars sired by the sweepstakes boar, Crimson Wonder Again, and out of H. A.'s Queen for sale that are sensational herd boar propositions. Also a number of other good boars. Write or come and see me.

Helen's Chief High Notcher

and Glad Col. head my herd of Durocs. Write for what you want.

M. A. KRASCHEL, MACON, ILLINOIS.

Duroc Jersey

Fall pigs sired by COL.'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

ARTHUR L. PARKS, LELAND, ILL.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address

G. C. Cushman, Mgr., Chillicothe, Ohio.

COL. J. CASTEEL Offers Fall Boars

Ten fall males ready for service, by Champion Paul II. Dams of choice breeding. Will price them worth the money if ordered at once.

COL. JAY CASTEEL, Cambridge, Ill.

For Sale--12 Extra Choice Fall Boars

If you need an extra good Duroc boar we have them by Manley Orion's Son by Manley Orion, dam by Keep On II. These pigs are out of dams by Educator, Champion Paul and others. Will be priced worth the money and are fit for immediate service. Address

GEO. L. MILLER, COAL VALLEY, ILL.
Care of Buck & Miller.

Do You Need a Boar

I HAVE good ones by S. E.'s Model 80743 by Model Chief, dam by Advancer. The dams of these boars are by Keep On III, Proud Advance and others equally as good. These males have quality and some are fit to go into the best herds in the land. Will price them cheap. My spring pigs are extra good, and of the best breeding. Write me or come and see. Please mention The Homestead.

S. E. EAKLE, PROPHETSTOWN, ILL.

FALL BOARS FOR SALE

BY O. & I. 82341, a line bred Col. and Protection boar of show yard quality; dams by Buddy K. IV. and Ambition. A few fall gilts, either open or will breed them. Also have 3 Scotch-topped Double Standard Polled Durham bulls for sale. Please mention The Homestead. Address

MENAGUI BROS., MAZON, ILLINOIS.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY.
Write Your Wants.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

POLAND CHINA SWINE.

12 Fall Boars--25 Spring Boars

I AM offering a splendid lot of big-type, big-boned fall and spring boars for sale, sired by B. Wonder, A. Wonder, Orange King and Big Ex. Address

J. G. LONG - HARLAN, IOWA.

DUROC JERSEY SWINE.

BRED SOWS---ANGUS BULLS

WE have thirty head of well-bred Duroc Jersey sows, to farrow in May, for sale, at \$35 to \$50. Also a few fancy bred Angus bulls. Address

WHITE BROS. - PERRY, IOWA.

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE



My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**



WAYSIDE HAMPSHIRE

WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.

MIKE SHARP - COAL VALLEY, ILL.

STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper.

E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.

HAMPSHIRE Swine

I WON champion on pen of Hampshire barrows; also champion on single barrow at the 1909 International Stock Show. 30 sows bred for March, April and May farrow, for sale. Also breeder of Short-horn and Double Standard Polled Durham cattle, Bourbon Red turkeys, Pekin ducks, and Barred P. Rock chickens. Write me. **John Goodvine, Potomac, Illinois.**

HAMPSHIRE Swine

WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

25 Head of Spring Boars 5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable.

H. D. DeKALB - DeKALB, IOWA.

CHESTER WHITE SWINE.



CHOICE FALL BOARS FOR SALE

THEY are of the same prize-winning blood as those with which I won 141 prizes at five big state fairs of 1909. Low prices to quick buyers, as I must make room for the spring crop. **D. H. LEWIS, GENESEO, ILL.**

35 CHESTER WHITE BOARS AND SOWS

FOR SALE--Extra good ones, sired by Buster F 19085. A son of Combination out of daughters of the noted prize winner, Modeller. Prices reasonable. **John F. Holst, Jr., Denison, Iowa.**

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. **Fred Ruehush, Sciota, Ill.**

O. I. C. Fall boars and gilts for sale. Sired by Highland Teddy; first at Des Moines in 1908. Address **Allen Bros., Russell, Iowa.**

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MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. **HELD BROS., HINTON, IOWA.**

McINTYRE'S BIG-BONED POLAND CHINAS

SPRING yearling sows bred for June and July farrow; tried sows bred for August and September. A few yearling boars, 50 choice September, 1909, boars and gilts, and boars and gilts of March and April, 1910, farrow, to be delivered at 3 to 5 months old. Blood of P. W. Grunt, Hadley, Jumbo and Victor. Foundation stuff or new blood. **F. W. McINTYRE, Route 5, RED OAK, IOWA.**

WILLIAMS BROS.' POLAND CHINAS

THE LARGE TYPE, WITH QUALITY COMBINED. 275 SPRING BOARS AND GILTS, and a number of fall boars for sale. These are sired by W.'s Major 45234, Young Look 47722, Pawnee Price 47721 and Villisca Chief. SPECIAL PRICES. We are offering spring boar pigs and gilts at \$25 each, and we guarantee satisfaction. Also some extra choice fall boars. Address **WILLIAMS BROS., VILLISCA, IOWA.**

FESSEMEYER POLAND CHINAS



HEADED by A Wonder, most noted big boar living. Sows bred to him for September farrow. Big-type spring pigs by other good sires. **H. FESSEMEYER, CLARINDA, IOWA.**

PROUD TECUMSEH 101353 FOR SALE

I AM offering the above 3-year-old herd boar for sale; also 18 fall boars and gilts at bargain prices. Address **Herman Baltz, Fremont, Neb.**

FALL BOARS FOR SALE

I am now offering some splendid fall boars for sale sired by my noted show and breeding boar Big Victor and out of my best sows. Address, **D. C. LONERGAN, Florence, Nebraska.**

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Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales. **L. A. MATERN, - WESLEY, IOWA.**

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WE HAVE EIGHTY-FIVE PERCHERON STALLIONS and MARES

FOR SALE AT KEOTA.

50 Stallions--35 Mares

We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold, come and see Keiser's Percherons at Keota.

C. O. KEISER, Keota, Ia.

AT LOW PRICES

BELGIANS PERCHERONS GERMAN COACHERS

A. R. IVES, DELAVAN, WISCONSIN

PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert II. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. **CHAS. IRVINE, ANKENY, IOWA.**

Clydesdale Headquarters

McLay Bros., JANEVILLE, WIS.
NEW IMPORTATION--15 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine Internationals than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

I HAVE SOLD FORTY-TWO JACKS

THIS season, I still have twenty-four extra big ones, the best that can be found in the United States. Also twenty medium-sized, which I am offering at the most tempting prices that have ever been made for good, first-class jacks. You cannot afford to be without one. Come at once. Write for catalog. Address **W. L. DeCLOW,**

Cedar Rapids Jack Farm, Cedar Rapids, Ia.

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I have six stallions that I imported myself, two to five years old, that I will sell at a very low figure to close them out. If you would buy a stallion at any price write me.

W. J. BUTLER, R. 29, OTTAWA, ILL.

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

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The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an International winner, and one imported Hackney mare, both with foal. Also one first-class Short-horn bull. Address

DIVISION OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

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40 Registered Mammoth Jacks and 22 Jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks--the best that grow--14½ to 16 hands. Everything guaranteed as represented. Est. 1892.

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FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

SHIRES, Percherons and Belgians! Best imported Shires, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. **A. Latimer Wilson, Creston, Ia.**

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. **R. Wilkinson & Sons, Mitchellville, Ia.**

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. **Frank L. Stream, Creston, Iowa.**

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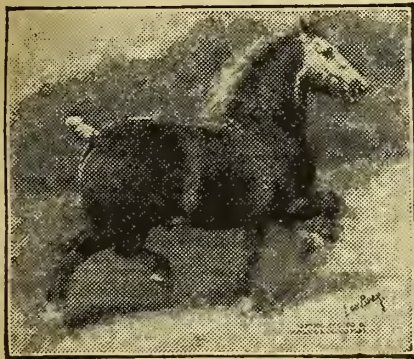
HORSES.

I STILL HAVE TWENTY-FOUR BIG, HEAVY PERCHERON STALLIONS and BELGIAN STALLIONS

WHICH I am very anxious to sell. Am offering the most tempting prices for big stallions that have ever been offered. Have had nice trade in heavy stallions this season, but still have on hand a larger number than I wish to carry over, and those who need big, heavy, first-class, sound stallions, cannot afford to miss seeing mine. These stallions ought to be sold; they should not be standing idle this season.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian Stallions and Mares

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.

HENRY LEFEBURE, FAIRFAX, IOWA.



PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.**

PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 18th. Ernest L. Humbert & Son, Corning, Ia.

Percheron Stallions Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. Will F. Hooker, Northboro, Page Co., Ia.

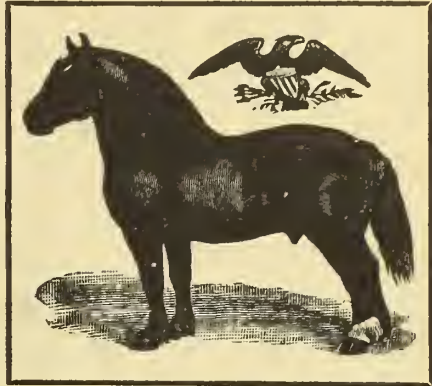
CLYDESDALES AND PERCHERONS—Imported and home-bred. A select lot of stallions and some extra choice mares. Prices right. Address R. O. MILLER, Route 1, LUCAS, IOWA.

HORSES.

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

Percherons, Belgians, Shires, German and French Coachers, Hackneys.



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

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Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.

Maasdam & Wheeler

Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

FAIRFIELD - IOWA

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



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Shetland Ponies for Sale

I AM offering eight head of Shetland ponies for sale at from \$65 to \$125. Also one 5-year-old black Shetland stallion and one 2-year-old Percheron stallion. Address H. W. Littleton, Harlan, Iowa.

RED POLLED CATTLE.

RED POLLED BULLS

TWO yearlings and some younger ones. Also offer our herd bull, Advancer, by Profector. Write for description, breeding and prices.

C. W. HUFF - MONDAMIN, IOWA.

CHOICE RED POLLS FOR SALE

SINGLY or in car lots. Best of breeding, good individuals and splendid milkers. These cattle are priced to sell.

Wendell Heil & Sons, Cedar Creek, Neb.

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

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ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otee and other cows equally well known. Write your wants; we can suit you. A. G. Abney, North Loup, Valley Co., Neb.

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HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address

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POLLED DURHAMS

FOUR choice two-year-old heifers, sired by Agate's Don Joe by Royal Duke. Good individuals. Splendid milking strain. Priced reasonable.

Walter Johnson, Dorchester, Nebraska.

Ottumwa W. B. Bonfield, Ottumwa, Iowa, breeder of Double Standard Polled Durhams. Bulls and heifers for sale. Fair prices.

Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. Wm. Barrans, Lenox, Iowa.

ABERDEEN ANGUS CATTLE.

CARLOAD

Angus Bulls

SIRE by Scottish Hero 52494 and Glen's Prileno 91606. In ages from 10 to 20 months, in good, useful condition for the buyer. If you want bargain prices on bulls write me.

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HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfoi Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfoi Thicket, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa.

W. P. Brown, Herdsman.

INVERNESS
ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 53737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address,

ED. T. DAVIS, - IOWA CITY, IOWA

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are putting them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by imported Ideal of Stranden 28158 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. 1. & P. R. Wilkinson & Sons, Mitchellville, Ia.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 31 and my double-bred Trojan Erica bull, Erica's Equester; also a few choice cows and heifers. Prices reasonable.

WILL L. COLEMAN, CORNING, IOWA.

Aberdeen Angus Bulls for Sale

I HAVE a splendid 2-year-old Trojan Erica, a 2-year-old Blackbird and Pride bull. Also Queen Mothers and several younger bulls at bed rock prices. John H. Fitch, Lake City, Iowa.

ANGUS BULLS, COWS and HEIFERS

THREE bulls for sale; also three bull calves, dropped last August and Sept. They are sired by ten bulls and out of one of the best cow herds in the state. My cattle have size, breeding, quality. Call on or address A. G. Messer, Grundy Center, Ia.

HIGH-CLASS ANGUS BULLS FOR SALE

WE are offering a splendid 2-year-old, double-bred Blackbird bull for sale; one excellent Gilt bull; 3 Prides and several others. These are good bulls, and our prices are bed rock.

Isenburger Bros., Battle Creek, Iowa.

ALFALFA HERD ABERDEEN ANGUS
Ericas, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

FOR SALE--A GOOD 18-MONTHS-OLD ANGUS BULL
Priced reasonable. R. J. Kidson, Pontoon, Illinois.

PUBLIC SALE OF CANNA HILL
SHORT-HORNS

Scotch and Scotch-topped
at Canna Hill Stock Farm
Corydon, Ia., Friday, May 20, '10

45 HEAD---22 HEAD OF COWS AND HEIFERS,
15 CALVES AT FOOT, 13 BULLS, including 45
CHAMPION COMMODORE 287299

Red, little white; calved October 10, 1906. Bred by Cookson Bros., West Branch, Iowa. Owned by W. E. Cutler, Corydon, Iowa.

Got by Young Com'dore 203988. Cookson & Sons
Imp. Scarlet Bangle..... Kn't of Strathlogie 2d 164699 J. Wilson
Imp. Silver Bangle..... Violet Boy 157951..... Wm. Duthie
Silver Bracelet..... Mandarin 157933..... J. L. Reid
Short Tail..... Bannockburn 144885..... J. Bruce

This splendidly-bred Broadhooks bull, possibly one of the best ever bred by Cookson Bros., and used with the greatest success in my herd, will be sold in my sale. He is a great proposition for the man that is seeking a herd bull.

THIS is one of the best offerings of Short-horns to be sold in southern Iowa this year. The Scotch families represented in my sale are Cruickshank Victoria, Orange Blossom, Duchess of Gloster, Lavender, Broadhooks, Fleur de Lis and Rosemary. The Scotch-topped sorts are also well represented in this sale and most of the females will have calves at foot by Champion Commodore. I am also selling this splendid Broadhooks herd bull as well as a splendid lot of young bulls. This is one of the best places in the state to buy good cattle at your own price and I extend to you a special invitation to attend my sale. Catalog now ready. Kindly mention this paper when writing for it. Address

W. E. CUTLER, CORYDON, IOWA.

Cols. Geo. P. Bellows, Auct. Fennel Bros., Assistants. Free conveyance from Chariton or Corydon. Parties coming to Chariton should stop at Bates House at my expense or at leading hotels in Corydon.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Donohoe, of Holbrook, Iowa, and P. Leahy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

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CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and bred to Narcissus King, singly or by earload. You will buy if you see them.

R. J. COX - GRINNELL, IOWA

ELK CREEK
SHORT-HORNS

Five good bulls for sale, sired by Jolly Hampton, Custer Butterfly and Crimson Scot. Good colors and good individuals. Prices right. Auto phone 1902. Address

S. A. Nelson & Sons, Malcolm, Neb.

Wildwood Scotch and Scotch-Topped
SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls. Headlight and Brawith Lad. For description and prices, address

W. W. VAUGHN - MARION, IOWA.

Good Red Short-horn Bulls

A DOZEN Scotch and Scotch-topped bulls, 10 to 24 months old, some good enough for the best herds, others suitable for farmers. Sires Courtier 5th 277599 and Baron Secret 2d 289279. Address

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SUMMIT HERD OF SHORT-HORNS

20 Short-horn bulls for sale, of serviceable age; all good colors and choice breeding, and well grown. Prices right. Lee & Prentiss, Vermilion, S. D.

GOOD RED SHORT-HORN BULLS

FOR SALE. Sired by Knight Commander, he by the great March Knight, also a limited number of choice females. Get my prices before buying.

HENRY P. McCARTNEY, YORK, NEB.

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REGISTERED BULLS
WANTED

We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd head-ers. Write us immediately. Address

Bragoner & Son, South Omaha, Neb.

WHITE BROS.

CENTERTVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionable-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

A FEW CHOICE SCOTCH
SHORT-HORN BULLS For Sale

I Barr & Son, Davenport, Ia.

GOOD SCOTCH BULL For Sale

WE are offering a splendid red roan Scotch bull for sale sired by Victor's Roan Duke, dam Pink Cup by Imp. Gold Cup. Address

H. PRITCHARD & SON, WALNUT, IOWA.

Three Pure Scotch Bulls For Sale

FOURTEEN to 18 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277.

T. A. DAVENPORT, BELMONT, IOWA.

When writing mention this paper.

SHORT-HORN CATTLE.

S. H. THOMPSON'S SONS
IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

SHORT-HORNS AND POLAND CHINAS

Five Scotch and Scotch-topped Short-horn bulls. Three extra Poland China fall boars. Bulls are sired by Victor's Roan Duke, Lavender King and Ury Chief. Boars by Wade's Jumbo and Allerton Chief. Best of individuals and are priced worth the money. Address

O. E. WADE, Rising City, Nebraska.

SCOTCH
BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.

5 GOOD SHORT-HORN BULLS

Scotch and Scotch-Topped. From good milking dams. Prices reasonable. F. M. Hall, Friend, Neb.

Cedar Hill Short-horns

Three good young bulls for sale. Best of breeding and individuality.

IRVIN E. WILSON, Belvidere, Nebraska.

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6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address

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GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns.

HERD headed by Hampton's Counsellor and The Drenmrr. I have a number of very choice young bulls for sale. Address

GEO. H. WHITE, EMERSON, IOWA.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goals, a grandson of Imp. Choice Goods. Can sell in ear load lots. Prices reasonable. Address Itley Bros., Albion, Neb.

MILKING SHORT-HORNS

YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk, or weigh in the milk for the herd. BLACKMER & NELSON, Albert Lea, Minn.

Farms 1 and 2 miles from town.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.

W. J. HATHIER, ORD, NEBRASKA.

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SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd head-ers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

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FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA. OR LISCOMB, IOWA.

SCOTCH and SCOTCH-TOPPED BULLS

I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athene. Others that are strictly choice. Also several Scotch-topped bulls by Lord Nuttiner. Prices low if taken soon. PERRY O. BROWN, LAMONI, IOWA.

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TO BE HELD AT

Watertown, Wis., Wednesday, May 25, '10

116 HOLSTEIN-FRIESIANS 116
95 FEMALES AND 21 BULLS

The consignment consists of contributions from eleven leading Wisconsin herds, the owners of which are all members of the Holstein-Friesian Association of America, representing the blood of such sires as Homestead Jr. DeKol, one of the greatest sires the world has ever produced; Pearl of the Dairy Joe DeKol Fobes Tritomia Mutual DeKol; King Segis; King of the Pontiacs; Kink of Hengervelds; Canary Paul; and Johanna Fayne Rue, who will be sold in this sale. He has several two-year-old daughters with records of over 20 pounds. A great many of the females have official records, ranging from 12-pound two-year-olds to 29.42-pound mature cows, and over 120 pounds in 30 days. The lot of bulls includes those of serviceable age as well as promising calves. They are all high-class cattle and not a cull in the bunch. They are to be sold by responsible breeders, at the most favorable season of the year, and under promising conditions. Catalogs are now ready. Address requests to

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58--HEAD--58

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Average	\$14.30 per cwt.

FIGURES ARE FACTS

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Auctioneers—Col. Geo. Bellows, Maryville, Mo.; Col. L. M. Baird, Hartington, Neb. Write for catalog to

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VOL. LV. NO. 20

DES MOINES, IOWA, MAY 19, 1910

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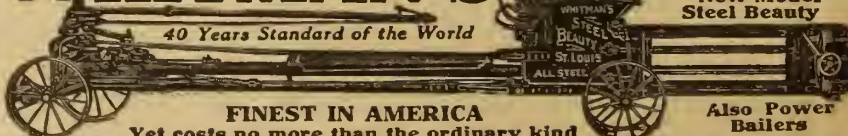
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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MAY 19, 1910.

The Harvesting and Baling of Hay

By L. G. Johnson

DURING the hay-making season the farmers are the busiest of all classes of men, especially those who have large meadows to harvest, and many a farmer draws a long breath of relief when he sees the last load of hay in the mow. To make as quick work of the hay harvest as possible is the desire of us all, as there is danger of rain or foul weather, and to do this it is necessary to have everything in readiness. All the different kinds of machinery used in hay making should be carefully examined and well oiled ready for the call to "make hay." There may be a bolt missing, a shaft or rod broken, or something or other out of place that requires being replaced with a new one, and quite often it is the case that some new piece must be ordered from the factory and all this takes time and should be attended to before you are ready to use the machine. The man who is always ready for everything is the man who is always up with his work, for if ready and all machines in perfect working order a great deal of hay can be made in a very short time.

Timothy should be cut when the bloom is on the head and before it becomes overripe. The stalk and leaf should just have a brownish tint when harvested. If allowed to become too ripe it will lose a portion of its strength and flavor, and stock will not relish it so much as if cut in the proper stage. Besides it will lose a part of the leaf structure by handling it, and the main object is to save the leaf, as the substance of the stalk goes into the leaf when the hay is cut.

In cutting my timothy I always wait in the morning until all the dew is off. It should never be cut when it is wet or damp from any cause

After it is dry I begin and cut down as much in the morning as I can and start the rake about half past two or three in the evening and put it in small windrows and the following morning after the dew has dried away I put it in the mow. This, however, is supposing the weather to be clear, but in case of rain or damp, muggy weather different rules must be adopted. I have seen farmers hasten with all help available when there were signs of an approaching storm to put their hay in small cocks. This I consider a wrong idea and never practice it myself, as it leaves fully as much of the hay exposed to the rain as does the windrows, and makes it so much more trouble to loosen up, air and dry out. In case of a rain while the hay is in the windrows, after it is over and the sun shines until the hay is dry on top it is an easy matter to go over the field with the tedder and turn the rows over, loosen and dry them out, while on the other hand, if put in the cock it will invariably be wet to the bottom and will take more time and labor to scatter and dry them, because it will have to be done with the common hand pitchfork. The best hay is hay that is never wet by rain in the field and all possible efforts should be made to get it in the mow in a reasonably dry condition.

In handling clover and alfalfa the main object is to preserve the leaf. Clover should be cut at the time the heads are just beginning to turn a brownish color, for if allowed to become too ripe it is almost impossible to get it in the mow without the leaves shattering off in handling it, thus losing a greater part of the

value of the hay. Rain causes a greater damage to clover and alfalfa hay than to timothy. The hay becomes brittle and is easily broken, and the leaf will fall off with the least touch. Besides dust and dirt are gathered which will not easily fall off, thus retaining it until it is in the mow, and this dust is injurious to stock that consumes the hay, especially horses and mules.

I like to begin cutting clover or alfalfa, the same as timothy, in the morning after the dew has dried off and only cut what I can handle that day. I prefer starting the rake at three o'clock in the afternoon and follow up with the wagon, putting it in the mow the same evening, or put it in good-sized cocks and cover it with hay caps and let stand for three or four days before putting in the mow. If the weather is fair and the wind is inclined to blow from the west or northwest I prefer the latter way, as it seems to air and cure better and have a brighter color than if put in the mow at once.

After hay has been put in the mow it should be allowed to go through the sweat before it is baled, for if baled during the sweating season it is liable to mold, thus rendering it useless for feed. Hay of any kind should never be baled when damp from any cause, or overdry—not damp enough to cause mold in the bale, nor dry enough to break and crumble in the bale. Baling hay damp is done either through ignorance or to gain pounds in the weight, and either case is inexcusable, as no one should bale his hay unless he is capable of knowing when it is in the proper condition. Anyone baling wet hay for the purpose of gaining pounds in the weight is committing a crime that should be punished by law, as musty or molded hay is entirely useless for feed.

False Teaching About Farm Life

By O. R. Jones, Mercer Co., Ill.

IN A RECENT issue of your paper I noticed an article taken from an address delivered by Prof. John L. Coulter, of the University of Minnesota, in which he gives three reasons why farmers move to the city, some of which show him to be either a city-bred gentleman or one who has been raised in the backwoods. The second reason is the only one of the three given by him in which I agree. Without a doubt the city schools are better than the country schools, but in this day and age the average farmer is wealthy enough to remain on the farm and support his children during the time they are being educated.

My father is a retired farmer and it is at his request that I am writing this letter. On his farm I have two brothers who are farming together and we find no such hardships there as Mr. Coulter speaks of. His first reason, I believe, is that the wages of a working man are larger in the city than in the country and from one standpoint this may be true; but now for a few minutes I will ask Mr. Coulter and yourselves to view the situation as I see it. Upon my father's farm my brothers pay a married man \$35 per month for twelve months in the year besides furnishing him with a house to live in, wood to burn, the use of a cow and garden and feed for a horse. He is no exception, as there are many more around here who receive the same wages. Now I challenge you to show me the common working man in

the city, taking everything into consideration, who gets better wages than that. And I cannot see why a working man need leave the farm on account of the work, because with the present improvements a man on the farm does not in my opinion work as hard as the man who bends over a machine all day long.

In his third reason, Mr. Coulter takes a decidedly pessimistic view of life on the farm. It seems ridiculous to anyone who has lived in a wide-awake country community, that a man with the standing which I suppose Mr. Coulter must have should make the assertions he did before an audience of intelligent American people. He mentions various disadvantages and inconveniences of farm life, one of them being the muddy roads. In our community, and I believe in most other well-to-do communities, we have muddy roads only for a day or two after a rain and for a little while in

the spring. The remainder of the time we have good roads over which it is a pleasure to travel, and the horses and buggies around here are anything but "work horses and wagons, and at best poor buggies," as Mr. Coulter puts it. As a rule, the buggies are rubber-tired, with auto seats and backs, while some few of our farmers have automobiles. And I dare say that you cannot find a better class of driving horses in any city than is found in our own community. Mr. Coulter also speaks of oil lamps and tallow candles in the country, but let me say right here that in my community at least 50 per cent of the farmers have acetylene light plants in their houses and the same per cent have furnaces and toilet rooms. So instead of taking a bath in the dishpan or wash tub, as Mr. Coulter says, the farmer has a heated bathroom where there is hot and cold water, furnished usually from an air-pressure tank in the cellar. The water is heated by a boiler connected with the furnace or cook stove. He also mentions the lack of telephones and mail

routes, theaters, concerts and orchestras which the city people have, but which the country people can only read about. There is not a farmer around here who is not reached by the telephone and mail route and they all have horses and buggies or automobiles with which they can go anywhere they choose within a reasonable distance. In my opinion the up-to-date farmers know just as much about such things as



A quintet of Guernseys owned by Mr. Ralph Tratt, of Whitewater, Wis. Every cow has either made an enviable record or is now under test for the Advanced Registry. Tristan's Royalette, the cow at the extreme left, made 499.51 pounds of fat when qualifying for the registry. See advertisement on page 30.

(Continued on page 5.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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BREEDING FROM FILLIES.

There is every reasonable prospect of values in draft horses remaining at a high mark for many years to come. While it is true that values have stimulated men to go more and more extensively into breeding drafters, yet, on the other hand, there is a tremendous outlet for the supply. The development of the newer lands opens up a new market for drafters, while the tremendous industrial development of our towns and cities has greatly augmented the number required for daily service. Unless some unforeseen disaster should affect industries in general, money put into the business of breeding draft horses will pay a good dividend if the business is sensibly handled.

The London Live-Stock Journal suggests the advisability of keeping up the number of horses by breeding the fillies at two and three years old. On this subject the Journal says:

Few will deny that the farmers of this country have been enabled to survive the bad times by the help of their live stock, and it is as important as ever to keep up the number of those on hand, always supposing that a higher standard of merit is being constantly aimed at. When the agricultural returns show that there is a shortage of numbers in any particular class of stock, it is advisable to breed from as many females as possible, in order to make good the deficiency.

The decrease in the number of young horses will cause owners of fillies to consider the question of breeding from two and three-year-olds, so as to make up the shortage as quickly as possible, and experience has proved that Shire fillies, which have been thoroughly well fed and cared for, may be put to the stud at two years old with very satisfactory results, as instances of winners breeding winners could be mentioned. Owing to the growth of the show system the young stock of most breeders are fed with a view to getting big animals, consequently the two-year-olds of today are bigger and more developed than the three-year-olds of twenty years ago, and quite as well able to breed a foal, but in olden times mares were not supposed to be capable of nursing till they were five years old, which meant that they had to be kept a long time before they commenced profit-earning by breeding a foal. This system compares unfavorably, from a financial point of view, with getting a foal at three years old, and that from fillies which have taken high honors at important shows. As above mentioned, the show preparation is usually beneficial for the reason that the extra feeding which is necessary to prepare a young animal for exhibition adds to its growth, and thus renders it sufficiently matured and strong to undertake maternal duties while still a filly, which a common, underfed one is not. Of the two evils it is better to breed from a filly than a very old mare, as there is certain to be more vitality in the offspring of the former.

There is, however, one precaution which it is necessary to take before a three-year-old gets heavy with her first foal, and that is to see that she learns to work, otherwise she may grow up to be a non-worker, or very difficult to manage. This applies to light as well as heavy fillies. Then, if they fail to breed in later years, they are still useful for some purpose.

With regard to light-horse breeding, there is no reason why a foal should not be bred from fillies while they are maturing. Either at three or four—possibly both—they could rear a foal and still be accessible for the purpose intended at five years old, which is quite soon enough for the hunting field, the carriage, or the army.

It is very necessary to prevent waste of any kind on the farm, therefore fillies which are not physically fit should be given the chance to pay their way at not later than three years old while many breeders commence a year younger; but, as far as memory serves,

the best results have been obtained by mating fillies of that age with two, or at most, three-year-old colts, rather than with older stallions.

If it is necessary for economy's sake to breed the younger mares in the older country, we cannot see why the same principle does not apply here. While our land is not yet as valuable as it is in England and Scotland, yet every farmer in the central West is under just as much pressure when it comes to the matter of making dividends as are our brother farmers across the sea. There is no reason why every well-grown mare cannot care for a colt during the summer when she is four years old. Indeed, if she has been well cared for as a foal and as a filly, she can raise a good colt and perform considerable work into the bargain.

There is one matter mentioned in the above quotation that is exceedingly important, namely, that of getting the filly accustomed to work when she is young rather than to allow her to raise her colt first and to be broken to harness later. A good, drafty mare can with impunity be put into the collar when she is two years old and she will give enough service when she is coming three to thoroughly accustom her to all kinds of service.

AS OUR NEIGHBORS DO.

As a boy we were taught the trick of guessing distances. It was done in this way: Someone would suggest that we enter a contest to guess the distance between two points. Our plan was to let all the other boys guess first, whereupon we carefully computed and averaged their guesses and used the average of all the others as our estimate. In this way we made a reputation for having wonderful ability to estimate distances.

However, we have learned that this rule is not applicable in after life in any beneficial sense, and particularly in relation to agricultural affairs. The reason for this is that the average man does not do well enough so that one can afford to imitate in any slavish way the practices of his neighbors. We have been reminded of this fact many times during the last few weeks in seeing our neighbors go into their cornstalk ground and plow under the old stalks without making any attempt in the first place to pulverize the surface. We have observed that practice being carried on where land would actually sell for \$150 per acre, but for some reason or other we could not see our way clear to accept the average practice of our neighbors and use it as our own ideal.

Not only in field work does this apply, but in almost every other farm operation. We have many neighbors who are in a half-way sense engaged in dairying. They handle eight or ten cows, but the method of feeding these cows during the winter months is such that it would put a business-like dairyman out of the running in one season. We find that corn is the only grain used in many cases, with corn fodder as roughage. When these men are asked why they do not use a supplementary food rich in protein, they point out that such feed is so high in price that it cannot be used at a profit. As a result, cows that actually have a capacity of producing five gallons of milk daily, are carried through the winter giving in the neighborhood of two or possibly not more than three gallons at the outside. This method of feeding not only cuts down the daily production, but it greatly shortens the period of lactation. It simply means that the cows are not given milk-making food and they scarcely pay their board in the value of their products. Because of this practice we find that we cannot follow the example of our neighbors, but, on the other hand, we must pick out the skilled dairyman here and there, the man who is actually handling his herd at a profit, and follow his example.

Numerous examples similar to the one above given could be mentioned. Take the care of the orchard; the average man does not believe that he has time to do any spraying, but the expert who is growing fruit under the same identical conditions will make his orchard the most profitable part of the farm. And even in the poultry department the same principle holds true. The average person makes

no profit whatever on his poultry, while the expert, the one who aims at a correct ideal, will make his poultry, considering the amount invested, the most profitable part of his live stock.

It is, therefore, not enough to do as well as our neighbors do. The average "ideal" is not high enough to use as a standard.

THE FARMER IN POLITICS.

Notwithstanding that officials of the Farmers' Union deny the action in affiliating that organization with the American Federation of Labor has any political significance, it is a fact that the farmer is taking a greater interest and engaging to a larger extent in politics than ever before. This was evident to the most casual attendant at the recent convention of the Farmers' Union in St. Louis. Speakers who discussed the tariff, conservation of natural resources, postal savings bank or the parcels post were listened to with even greater attention and given even more hearty applause than those speakers who dealt with such time-honored subjects as crop rotation and soil fertilization. At this convention, which was a typical gathering of farmers representing the 3,000,000 members of the order, political speakers were present in large number. On the program were President Taft, William J. Bryan, ex-Gov. Joseph W. Folk, ex-Gov. David R. Francis, Senator Owen, of Oklahoma, and Senator Gore, of Oklahoma. Such an array of politicians and statesmen at a meeting of farmers designed to discuss how best to improve the farmer's condition is a noteworthy proof of awakened interest in politics.

It is a fact, moreover, that while the farmer has held the balance of power politically in the past and been content to assert this power but seldom, he is planning on taking a more active part in political affairs in the future. What it would mean if the farmers were to vote as a class rather than as representatives of various political parties may readily be seen in the case of Iowa, a typical grain-belt state. The 1910 census will show in the neighborhood of 225,000 farmers in the state. The total vote of the state for president in 1896 was 521,547; in 1900 it was 530,355; in 1904 it was 485,703; in 1908 it was 494,770. It will thus be seen that practically one-half of the entire presidential vote is controlled by the farmer. President McKinley carried the state in 1896 by 66,000, but one-fourth of the farmer vote. President Taft carried the state in 1908 by 75,000, only one-third of the farmer vote. These figures are sufficient to show that should the time ever come when the farmer enters politics to the extent of seeking to dominate the situation and to vote as a class for his own interests, rather than for any political party, he can swing any election. Conditions have not yet arisen which make such a contingency probable in the immediate future, but the farmer is beginning to realize that he has political rights after the election, as well as before, and that the man worthy of support is the one who represents him after he has secured his vote, as well as he who promises to represent him before he secures his vote.

A TRIBUTE TO GRASS.

The tribute paid to grass by the late Sen. John J. Ingalls, of Kansas, deserves to be reprinted each spring-time, for so common and manifold a blessing is not given the credit it deserves unless attention is pointed to it by some such eloquent person as the late Senator Ingalls was. It is stated of Ruskin that he could write the sublimest things in English literature with no more exalted a subject than a heap of gravel by the roadside. Senator Ingalls never aspired to the Ruskin class, but few things are more flowery than the tribute which follows:

Grass is the forgiveness of nature—her constant benediction. Fields trampled with battle, saturated with blood, torn with the ruts of cannon, grow green again with grass, and carnage is forgotten. Streets abandoned by traffic become grass-grown like rural lanes, and obliterated. Forests decay, harvests perish, flowers vanish, but grass is immortal. Beleaguered by the seven hosts of winter, it withdraws into the impregnable fortresses of its subterranean vitality and emerges upon the first solicitation of spring. Sown by the winds, by the wandering

birds, propagated by the subtle horticulture of the elements which are its ministers and servants, it softens the rude outline of the world. Its tenacious fibers hold the earth in its place and prevent its soluble components from washing into the wasting sea. It invades the solitudes of the deserts, climbs the inaccessible slopes and forbidden pinnacles of mountains, modifies climates and determines the history, character and destiny of nations. Unobtrusive and patient it has immortal vigor and aggression. Banished from the thoroughfare and the field, it hides its time to return and when vigilance is relaxed, or the dynasty has perished, it silently resumes the throne from which it has been expelled, but which it never abdicates. It bears no blazonry of bloom to charm the senses with fragrance or splendor, but its homely hue is more enchanting than the lily or the rose. It yields no fruit in earth or air, and yet, should its harvest fail for a single year, famine would depopulate the world.

The little things in life deserve their recognition fully as much as the great, and Senator Ingalls rendered a service to mankind by paying such a tribute to a servant so useful, but so likely to go unsung.

THE FARMER'S RESPONSIBILITY.

The extent to which one industry is dependent upon another is shown in a striking manner by the statement that 250,000 bales of cotton are used each year in automobile manufacturing. Cotton is used in the tires and in the leather which covers the seats. It is claimed by cotton growers that should the cotton crop absolutely fail and the industry be dispensed with, practically every other industry in the country would suffer and all kinds of factories and business houses would be compelled shortly to close down. While the statement may be a little broad, the fact that so much cotton is used in an industry as far distant as automobile manufacturing shows the extent to which cotton permeates the entire industrial world.

What is true of cotton is even more true of corn for the commercial uses of the various parts of the corn plant are annually becoming greater and more varied. The list of products ranges from battleship armor made of the pith to cloth made of the fiber, with all manner of cellulose and glucose compounds thrown in for good measure.

The farmer, even with the knowledge of these facts, can hardly realize the extent to which every industry depends on his exertions, and yet in view of this he contents himself with crops which might be materially increased even to the point of being doubled. The responsibility of the farmer can be brought home to him strikingly in this manner: Supposing he had 100 acres of good land and was cultivating only fifty acres of it, and supposing, moreover, that he had a family of ten children who were not getting enough to eat or enough to wear or were unable to find in other industries enough employment to support them. In that combination of circumstances would not the farmer immediately set to work to cultivate the unused fifty acres of his land? And would he not improve, as well as he could and without delay, his methods of cultivating all his acres?

This is only a suppositious case and yet the fact remains that in many sections of the grain belt not more than one-half of the land available is being cultivated. In the state of Missouri, for instance, to take Governor Hadley's careful figures, approximately one-half of the cultivable land is not cultivated at all, while most of that which is cultivated is not producing to nearly its full capacity. Yet Missouri is above the average as an agricultural state. When the farmer comes to realize that his responsibility for feeding, clothing and keeping busy the rest of the world is as direct a responsibility as though he were failing sufficiently to provide for his own family, the methods of tillage which are being carried on will be greatly improved and the indifference which is being shown in this matter of cultivating all the land possible will cease.

The Illinois law allows automobiles a speed of ten miles an hour in the business sections of cities and towns, fifteen miles an hour in residence sections and twenty miles an hour on country roads. The penalty for the first violation is a fine of \$200. For the second offense the license may be revoked.

SAVING THE MOISTURE.

The one uncertain factor in the problem of production is the weather. It is so uncertain that this paper has never made it a point to indulge in predictions. We have never been able to work our faith up to the sticking place in long-range forecasts as applied to a specific locality. On the other hand, with our extensive staff of writers, we claim to be in a position to give up-to-date advice on how to handle land or how to handle crops under a given set of conditions.

Up to the time of writing, the great central West has had an unusually dry spring. Barring the warm weather in the month of March, the spring has been cold. In view of the fact that the temperature has averaged low the lack of moisture has, in the main, been a good thing, but we are rapidly coming to the point when our crops need rain and need it badly. We are helpless to aid in any way our meadows or small grain crops, but as the great inter-tillage crop, corn, is the revenue producer of the central West, farmers generally have a splendid opportunity to carry out the principles of water conservation.

The fundamental principle of this conservation is simply surface tillage, as this creates a mulch and the mulch acts as a blanket to hold the moisture. The best work, of course, has been done by those farmers who harrowed their soil frequently before planting, and who continue the process until the crop is far enough above ground to make more harrowing unwise. After that it is a case of doing plenty of work on the soil without cutting into it more than two or three inches. The shallow cultivators ought to be more popular than ever this year if our dry weather continues.

BLEACHED FLOUR KNOCKED OUT.

Judge Smith McPherson, of the United States District Court for the Southern District of Iowa, has sustained the department of agriculture in its contention that bleached flour is an adulterated product and amenable under the pure food laws. The court did not go into the merits of the various bleaching processes, but decided that the cases come under the pure-food regulation and that the pure-food law is constitutional.

The case in issue was the one brought by the Shawnee Milling Company, of Kansas, and the Updike Milling Company, of Omaha, which sought to restrain the United States officials from seizing and destroying certain shipments of flour bleached by what

is known as the Alsop process. Other cases are pending, but the one decided by Judge McPherson the past week is considered a test. The gist of the court's opinion is that an injunction cannot be granted preventing the enforcement of any criminal statute unless it is confiscatory, unconstitutional or invades property rights and the court holds that the pure food law does not come under any of these classes. The effect of the opinion is that the complainant millers must cease to put bleached flour on the market.

The bleached flour quarrel has been going on for about two years. November 28, 1908, following a controversy of several months as to the application of the pure food and drugs act to the electrical bleaching of flour, Secretary Wilson, of the department of agriculture, after a formal hearing held before him, issued his decision to the effect that flour bleached by the use of nitrogen peroxide would be held to be adulterated, within the meaning of the law, and would be subject to seizure if shipped in interstate commerce. No statement in the brand of the flour, the secretary decided, would render it immune. In his decision Secretary Wilson granted a suspension of the order for a period of six months to give time for the consumption of stocks of bleached flour then in existence.

Following the secretary's decision, many millers discontinued the use of the bleaching process. Others were not so amenable to the department's ruling, however, and continued milling operations as formerly, deciding to make a test in the courts. Not until July, 1909, did the authorities begin making seizures, the first one being a car of Kansas flour labeled at New Orleans. This was quickly followed by the seizure of flour in Iowa involved in the case decided by Judge McPherson. The millers refused to go to trial in the first case and default judgment was rendered against them on March 15th of this year. The Shawnee-Updike case has been heard on demurrers and in other forms at several recent sessions of the federal court, but it was not until the past week that Judge McPherson handed down the final decision. This decision does not deal so much with the bleaching process as it does with the constitutionality of the pure food law under which, the court holds, the bleached flour falls. Among other things the court said:

Several states within the past few years have enacted pure food statutes. Congress enacted one June 30, 1906, the one in question. All these statutes were enacted to cure evils well nigh intolerable that had grown up during

this age of greed and avarice and commercialism that has made money-getting the prime object of life with so many. The evils were such that much of the foods we ate, whether meats of any kind, poultry, fruit and breadstuffs, were so adulterated and "loaded" or "doctored" as to deceive the consumer. The evils were everywhere present, as to food and medicine and other things. And to eliminate some of these evils and to enable the purchaser to get what he ordered and paid for, many states and congress passed statutes aimed at these frauds.

The secretary of agriculture, Mr. Wilson, performed his duty, both in letter and in spirit when he submitted the question as to flour bleached with nitrogen peroxide to the board of food and drug inspection. And that board, the secretary concurring, after a hearing given to all parties interested, found that such flour is in contravention of that statute. Such finding is not binding as against the parties thus bleaching flour. But it is conclusive as against all criticism for making the seizures and bringing the question before the courts for determination.

The electrical process of flour bleaching was discovered about six years ago by John N. Alsop and was first installed in a mill at Jackson, Mo. It is now in use in every part of the world and has been recognized as a legitimate process by the courts of various European countries and by the English house of lords, who passed upon it in a patent suit. The bleaching of the flour by this process, however, is accomplished in a different manner in this country from that in England. The nitrogen peroxide, which is the principal factor in the process, is produced under the English patent by combining nitric acid with metallic compound, while under the American patent it is produced by subjecting atmospheric air to a flaming electrical arc. In this connection Judge McPherson in his decision said:

It is claimed by some that nitrogen peroxide is the agent for bleaching flour under both patents, while others claim that it is the ozone that does the effective work, while the nitrogen peroxide is a by-product when the ozone is thereby created. But whatever the truth is as to what does the bleaching, it is both claimed and denied by chemists, who ought to be able to agree, that the flour is poisoned by such processes.

The court concluded that in the absence of agreement by chemists it was the reasonable presumption that the bleaching process was contrary to the pure food restrictions, and fell under the pure food law. The important point for him to decide was the constitutionality of this law, which he upheld, thus deciding the case against the bleached-flour millers.

The government claims that bleaching is a harmful addition of nitrates to the flour which constitutes adulteration. The millers hold that the nitrates present in bleached flour are in infinitesimal quantity, insufficient to be harmful and not more than are normally present in the human saliva and in many articles of food. Another objection to the process is that it is said to enable millers to use a poor quality of wheat, which could be readily detected in unbleached flour, but is hidden in the product that is treated by the electric process.

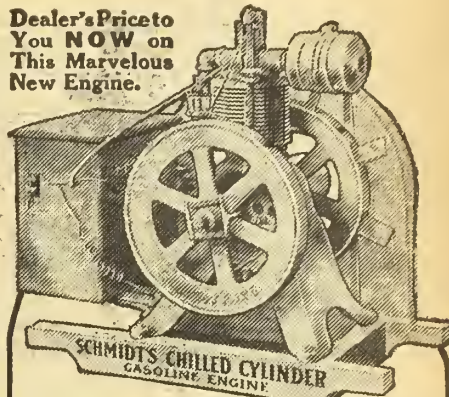
FALSE TEACHING ABOUT FARM LIFE.

(Continued from page 3.)

the city people themselves. Of course, the farmer has to drive to these things, but with the present methods of travel this is a pleasure. The suggestions made by Mr. Coulter for the upbuilding of the farmer I think are all right except his club-room idea, which I believe is absolutely impracticable because the farmer does not have time to bother with such things. As to keeping a set of books, my father as well as many other farmers that I know of have kept books for years and can turn to them and tell exactly how much they have made on a certain thing for a number of years past.

Now I am not trying to show you that it is more convenient to live in the country than in the city, but I do want to take sides against the idea of Mr. Coulter's that the farm is such a dreadful place to live. It is undoubtedly a fact that retired farmers, almost without exception, move to the city because it is more convenient for a man in his declining years to live there, and besides they must move off the farm to make room for the rising generation.

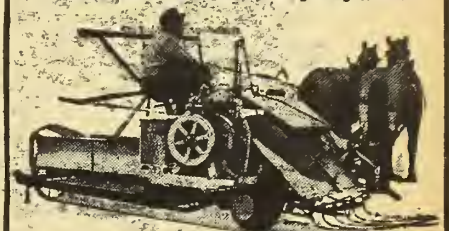
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FARM FURROWS

Turned By a Practical Farmer

It is apparently a fact that weeds can grow and thrive when the weather is too unfavorable for corn and other grain crops, but here of late I really believe it has been too chilly for the weeds. Last evening I noticed none had ventured out where there are always a plenty. It can be too unfavorable for the weeds.

Sprouting potatoes was the dislike of my boyhood, the hatred of my youth and now it has become the dread of my older years. There are no apples on the cellar shelf at the season of year for sprouting potatoes.

They tell us that consumers are increasing faster than the producers. In every village, town and city may be found a small army of consumers that, insofar as farm products are concerned, are not producers. This makes farm products higher-priced, but when some of us want a few of the idle ones to come out and help during harvest, we do not think about that. I know of a great many young men who are heavy consumers—of time. They put in eighteen hours a day—at loafing. Approach them with a \$2 a day proposition and they haven't time to take on any more work.

This rainless weather makes us think of the time when there was so much talk about a dust blanket to conserve the moisture. At the present writing we have plenty of dust, but very little moisture to conserve.

The steady weather this spring has made it unnecessary to put off any odd jobs for a rainy day. When rainy days are so few and far between the best rainy-day job is to sit around and watch the raindrops fall.

The planting season brought the seed corn question home to every corn

GROWING CHILDREN

The Period When the Nervous Activity is at its Greatest.

"Against the practice of giving tea and coffee to children, we cannot speak too strongly. Childhood is the period when the nervous activity is at its greatest. The brain is ever busy receiving new impressions. Reflex action, co-ordination of muscles, and the special senses are all under a special course of training.

"The nervous system is pushed to its utmost capacity, and long is the list of victims that follow its overstimulation. In these little people nothing but harm can come from the use of such cerebral stimulants as tea or coffee. Bad, then, as this practice is, let us as physicians be aggressive in its prohibition.

"Do not be satisfied by answering 'No' when asked as to their use, but let us teach the families with whom we come in contact that such practice is evil. We speak emphatically, because not only among the poor and uneducated, but among the rich, who should know better, this practice is marvelously prevalent."—*The Home Doctor.*

Children like a warm beverage for breakfast and it is well for them to have it if the drink is a food and not a drug.

Postum is made to supply a rich, nourishing liquid food with a crisp coffee taste for those who cannot and should not use coffee. Analysis shows it to contain about fourteen per cent of muscle-forming elements and 66.11 per cent of energy and fat-producing elements, which go to nourish and sustain the delicate nerve centres throughout the body and from which the vital energy proceeds.

The success of child or adult depends largely upon proper sustenance for the body. Children who depend upon the intelligence of their elders to furnish them with good food deserve our most careful attention and thought.

Read "The Road to Wellville," found in pkgs. "There's a Reason."

raiser. This year at least 20 per cent of the corn crop in this vicinity will be planted from seed that was shipped in. It is impossible to guess what kind of a crop will be raised from this seed until late in the season.

Perhaps we will never have another season as unfavorable for gathering seed corn as last fall was, but at present it looks as though the makers of seed corn testers will find ready sale for their goods in the future.

The array of levers, foot lifts, seed plates and other contraptions that go with a modern corn planter would make the users of the old hand planter dizzy if he had not seen the new things added from year to year. Even placing one of the first horse planters beside one of the latest patterns makes anyone wonder what a corn planter will look like ten years from now.

Dairying is receiving more attention now than ever before. The main reason for this must be the money there is in it, but those who take it up as a sort of get-rich-quick scheme are liable to be disappointed.

About the best way to bring home the cows from the pasture at milking time is to have a good feed for them in the barn. If this is done regularly they will bring themselves home and pay for the feed at the pail.

I generally restrict myself to but two varieties of strawberries—the Dunlap and Warfield. These seem to be friendly to each other and at least reasonably hardy. During the recent freeze the Warfield proved to be the hardier of the two. My Dunlaps were badly nipped by the frost, but the Warfields stood the test in fine shape.

Pedigreed corn is all right for the man who is willing to coax it by proper cultivation throughout the season. Common scrub corn is better for the man who expects to give his crop in different care. I am sure it will stand more neglect than will the well-bred varieties. That, however, is a mighty poor excuse for raising poor stuff.

When it comes to corn planting and cultivating I simply insist upon hitching up a good-stepping team. The fancy actors may be all right for some people, but I like a horse that does not walk too long in one place.

It is said that the cost of a modern battleship would build a macadam road from New York to Chicago. After a battleship has been built a couple of years it becomes antiquated, but macadam roads never do. I am for better roads and fewer battleships.

Ten dollars will usually buy the difference between the service fee of the good and the ordinary horse. I find it pays to breed to the best, even if she is the poorest mare on the farm. Money cannot be better invested.

For some years I have kept a bushel of early-maturing seed corn in reserve, in case of replanting along the sloughs. Sometimes more is needed and sometimes none of it, but I feel safer to have it within reach.

A chicken has less sense about self preservation in time of storm than any other living being. I challenge anyone to bring on a more perfect idiot in time of rain. This morning a half-grown chick was standing within three feet of shelter, taking the rain as it came in torrents. A few minutes more and Mr. Chick would have toppled over.

I have had "straw hat" on the list for a month, but every time I happen to go to town the weather is cold enough to make a winter cap more comfortable. One cannot do much towards rushing the season, so I am not going to try it.

Years ago the Furrows family quit buying sugar by the package. It is cheaper to buy it by the 100-pound sack, and then there is not the discom-

fort of forgetting the little package it is necessary to get nearly every time in town. Coal oil, too, I buy by the barrel.

My cure for a sore shoulder on any of the work teams is the use of the cotton collar—not the cotton-faced collar, but the cotton collar with a cloth covering all around. I have one mare that cannot be kept in trim unless she wears one all the time in harness. Last week a sore started on a mare that never had a sore shoulder before. It grew worse under the collar she has worn for three years. Two weeks of the cotton collar cured it.

The weather is still making every effort to make a clean sweep of the fruit crop. It got it for down towards the South at the first strike and has been pounding away ever since to break still further into the solid South. Next spring, if I were an apple tree, I wouldn't bloom until June.

This is a rainy day, the first one in two months. There might be a number of inside jobs to do, but I haven't been hunting them. After a fellow has worked for nearly two months without weather interruption, he feels like loafing when the rainy day does come.

PROFESSOR HOPKINS' BOOK ON SOIL FERTILITY.

Prof. Cyril G. Hopkins, of the University of Illinois, has written a book dealing with soil problems. The title, "Soil Fertility and Permanent Agriculture," conveys a very clear idea as to the character of the book. As the author expresses it this book is not written for entertainment, but to be studied, and we are frank to admit that only persons of considerable mental vigor will go very far into its pages. It contains a great deal of fundamental knowledge relating to soils. It will be invaluable to students in our agricultural colleges, as well as to those farmers who have had a little scholastic training. This book ought to become popular among young folks of the farm, who are determined on posting themselves on the "science" of agriculture while they are engaged in practicing the art of agriculture. The keynote of Professor Hopkins' effort in preparing this excellent work has been to impress upon the minds of American farmers the fact that our soils are relatively poor in phosphorus, and on the other hand, comparatively rich in potash and nitrogen. The author has drawn upon many reliable sources for the data used and he brings the subject of "soil fertility" absolutely up to date. It will be the American farmers' best book on soils for the

next generation. The publishers' price is \$2.25 and this paper can secure it for its readers at this price.

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1910 Book Ready

Pheasants As Insect Destroyers

By W. H. Olin



REEVES' PHEASANT, NATIVE OF CHINA.

THE PHEASANT, especially the Chinese ring-neck and English varieties, are the most valuable insectivorous birds, as well as the most attractive and eagerly-sought game bird of all the species that can be reared in captivity or in a semi-domestic way, and be kept in the district in which it is propagated.

The great majority in numbers and kinds of the insectivorous bird, are migratory—are only with us a short time—while the pheasant, especially the kinds above mentioned, becomes attached to the locality and will breed and remain there as long as they are protected and can secure food.

Thousands of these gorgeously-plumed pheasants with a wealth of feathered adornment, some of which shine in the sunlight as burnished gold and bronze of many shadings, with grace of form and carriage, are kept on exhibit at City Park, Denver, for the education and entertainment of the visitors. Thousands of tourists as well as local people visit this exhibit and carry away pleasant memories, giving City Park an international reputation, yet few realize their economic value other than their beauty which always appeals to the finer sentiment and love of nature's inimitable handiwork. Within another year the popularity of the pheasant, because of its usefulness which even exceeds its great beauty, will become extensively recognized throughout America.

The pheasant is naturally an insectivorous bird, and where such food is obtainable, he will eat comparatively little else. The variety of the

insect food of the pheasant is larger than any other bird, so far as known. Investigation shows that over 130 species of insects, including earthworms, are eaten by the pheasant, and doubtless many more will be found to share in its menu.

In addition to this, it is especially fond of small rodents, such as field mice, young gophers, and small snakes. In England a number of pheasants have been found choked to death in the attempt to swallow worms larger or longer than they could manage; also several pheasants have been found dead choked on small rodents.

The keeper of most any large pheasantry has seen his pheasants catch mice that were stealing the grain from the birds. This is verified by Mr. Fred Barnett, superintendent of the pheasantries at City Park, Denver, Colo. Mr. Barnett says that a pheasant hen will catch and destroy a mouse as quickly as a cock pheasant or cat, as he has frequently watched them in the act. They usually pick the head off first, then tear and eat the body or swallow the small ones whole.

Among the insects destroyed by the pheasant are included smelling bugs that most insectivorous birds will not touch—this makes these birds more valuable to the farmer than any other.

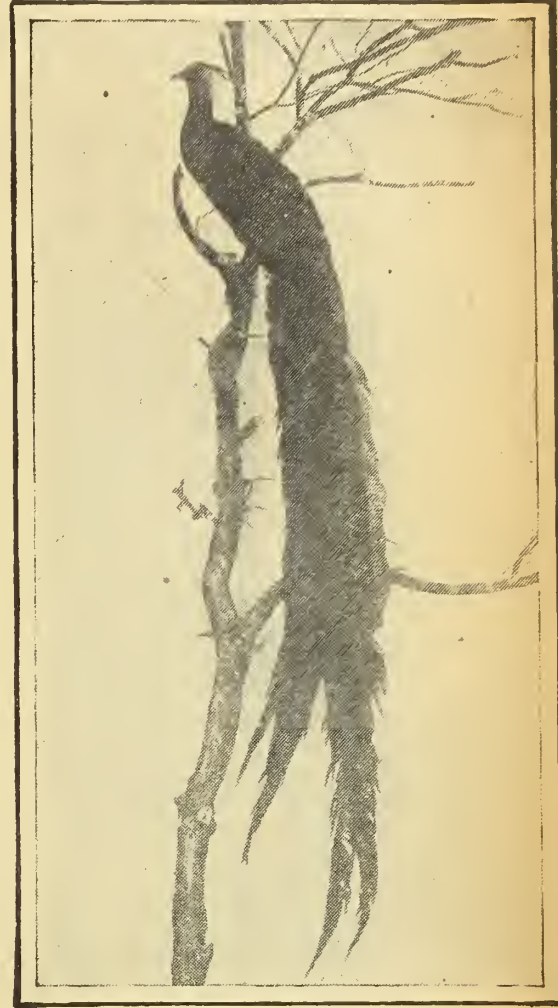
Prominent among the pests ravenously destroyed are the Colorado potato beetle, the squash bug, the cucumber beetle, the bean leaf beetle, tomato worms, cutworms, and the millers which deposit the eggs for the wire worms. The pheasant also digs for and eats the wire worms, as it does all ground worms and bugs, and practically all kinds of ground beetles. Most birds avoid the potato and other bugs on account of their obnoxious odors, but the pheasant hunts and eats them.

The southern people are importing the pheasant to eat the cotton boll weevil and its larvae, stating that one pheasant will eat as many of this destructive pest as a number of quail. Many of the insects that are injurious to the corn crop are destroyed by the pheasant, and the pheasant will not attack the grain or ear of the corn until late in the season after insect food is scarce.

The professors of agronomy of our agricultural colleges state that the chinch bug, which destroys \$100,000,000 worth of wheat annually, is hunted and eaten by the pheasant both summer and winter, also the bugs and insects which destroy the foliage, especially of ground plants and crops of the farmer.

The difference between the pheasant and the ordinary fowl in eating insects is largely that the pheasant is continually hunting for the eggs and larvae of insects. In the grain fields and meadows the insect eggs are usually laid on the underside of the leaves of the plants. The pheasant as it passes through the growing grain keeps its head near the ground, and turns one eye up and the other down so it sees the larvae and eggs on the underside of the leaf. It takes hold of the leaf with its bill, throws its head up, and clears the plant of the eggs and larvae without injuring the leaf; thus in one stroke it destroys four or five, or possibly 100 embryo insects, and in a single meal often destroys many thousands of insects in the egg and larvae form, which, when matured, would have destroyed a large amount of crops, and furnish enough bug food for a turkey gobbler for several days. The pheasant destroys the pests before they do any damage to the farmer's crops; the turkey and common poultry afterwards.

Pheasants are fond of grasshopper eggs, especially those of the locust, that deposit their eggs in the earth in dry places and also larvae of any insect that may be found there. Pheasants in captivity have been known to dig up light ground where there were many larvae so that they dug under the fence four inches in the ground. On



RHIENHARD'S PHEASANT.

examination, this ground was found to contain insect eggs and larvae of insects.

The pheasant chooses the dandelion and the bulbs of buttercups as two of its greatest vegetable delicacies. He eats but comparatively few buds from bushes and trees, excepting in severe winters. In this way he is quite different from the grouse. Of the grasses, he has liking for white and red clover, alfalfa, and red and yellow sorrel, but when there are plenty of dandelions and buttercups, he will make those his principal vegetable diet.

In the winter time, pheasants can be seen turning over forest leaves and examining them, and picking off the larvae of different tree insects deposited on the underside of the leaves; also picking over the top soil around bushes and trees for the bugs and larvae.

Along the streams and wet grounds, the pheasant finds many snails for food, also crustaceans. The pheasant being a terrestrial, it eats mostly from the ground or within twelve inches of same when food is abundant, and seldom eats grain, such as wheat, oats and barley, until late in the season after it has been harvested and thrashed, when insect life is scarce. It cleans up the grain stubble fields, being especially fond of buckwheat, millet and common ordinary wheat, and when hungry, will eat most any kind of grain, including beans.

Tegetmeir-English says: "The value of pheasants to the agriculturist is scarcely sufficiently ap-

(Continued on page 14.)



GOLDEN PHEASANTS.



A CHINESE RING-NECK PHEASANT HUNTING INSECT PESTS.

CURRENT EVENTS

PRESIDENT TAFT paid a flying visit to Passaic, N. J., during the week, and delivered a speech in which he outlined his legislative plan and defended his railway rate bill. In a review of the pending legislation the president expressed the belief that the following measures will be enacted into law at the present session of congress: Statehood for Arizona and New Mexico, postal savings bank, anti-injunction, the so-called "validating bill" of the conservation measures, publicity of campaign expenditures, and the railroad bill. President Taft declared that there is a hesitation on the part of the republicans in the senate to pass the statehood bill, which is likely to add four democrats to the senate, but he declared that the promise of the republican platform should be lived up to and Arizona and New Mexico be brought into the Union. He stated that the conservation bill is one of the most important pending, as unless congress validates the reservation of 60,000,000 acres, which has already been made, it is doubtful if the action will stand the test of the courts. He declared that his railway rate bill has not been emasculated to a sufficient extent to justify his veto, and predicted that it would pass in such shape as to be satisfactory to him and to all concerned. In the meantime, however, the bill is being dissected by the democrats and republican insurgents, but President Taft believes that in the main it will pass both houses with the provisions which he believes most important. The president was given a warm welcome at Passaic and delivered his customary dignified, judicious address.

WITH all the attendant pomp which the occasion demanded, George V. was crowned and proclaimed king of the United Kingdom of Great Britain and Ireland and the British dominions beyond the seas, defender of the faith and emperor of India. The new king is forty-five years old and second son of the late King Edward VII. He is the junior by a year and a half of the first born son of Edward, who died after he had attained his manhood. The new king is extremely popular with his people and is said to be a man of simple tastes and with a decided preference for the country. As a result, it is expected that much of the pomp and ceremony of the British court under Edward will be dispensed with and that ceremonies will be much simpler hereafter. The new queen, who bears the name of Mary, is of a highly religious nature. The old favorites will undoubtedly be dispensed with and the interests of the court hereafter will deal largely with religious and rural matters. George V. has a son sixteen years of age who assumes the title of Prince of Wales, and is in the line of succession to the throne. The funeral of King Edward has been set for Friday, the 20th, being postponed until this late date in order to allow the crowned heads of the various countries in Europe, to whom he was closely related, to be present.

ATENTION has been called to the roads of the grain belt by the trip of the automobile which is the official pathfinder for the proposed Glidden tour this summer. This Glidden tour is an endurance run of motor cars for 2,900 miles from Chicago, in a circular journey, to Cincinnati, traversing or intersecting the states of Illinois, Iowa, Nebraska, Missouri, Kansas, Oklahoma, Texas, Arkansas, Mississippi, Tennessee, Alabama, Kentucky and Ohio. A car is sent out in advance to pick out the most desirable roads, and it was this car which called attention to the fact that the grain belt has both the best and the worst roads in the country. The car was stuck in the mud between St. Joseph, Mo., and Omaha, Neb., and required four days for a trip which with good roads could easily have been made in one day. Coming across Iowa, however, the car encountered some splendid roads, the trip adding impetus to the movement to establish a river-to-river road across the state, a distance of some 350 miles.

Both New Orleans and San Francisco are planning international expositions in honor of the opening of the Panama canal in 1915. California has already made an appropriation to aid San Francisco, while California delegates at Washington are endeavoring to secure the government appropriation. At the recent Farmers' Union convention in St. Louis, the governor of Louisiana delegated ex-Gov. David R. Francis, of Missouri, to make a plea for New Orleans over San Francisco. No definite action was taken by the Union, although it is highly probable that a majority of the farmers in the Mississippi valley would take more interest in and be more likely to attend an exposition at New Orleans than at San Francisco. The opening of the canal will add greatly to the import and export business of both New Orleans and Galveston, Texas, this latter city already ranking as the second port of entry in the United States.

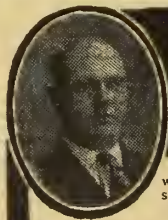
THE recent earthquake in Costa Rica resulted in the loss of more than 1,000 lives. It was the most serious seismic disturbance which has visited Central America for several decades. The work of clearing away the ruins is in progress and already nearly 1,000 bodies have been taken out. Central America is visited by earthquakes more frequently than any other part of the country. It was this fact which caused considerable hesitancy when it was proposed to have the United States construct the Panama canal. The Nicaraguan route was favored by a great many,

but the fact that Nicaragua is nearer to the earthquake belt than Panama was a factor in determining the decision for Panama. There are those pessimistic enough to predict that it is only a question of time until the Panama canal zone is visited by a serious earthquake which will undo the work of many years, but Panama has been unvisited by any such disturbance for many decades and the engineers believe that the canal work is permanent.

THEODORE ROOSEVELT was entertained by the emperor of Germany during the past week. The entertainment plans were disarranged on account of the death of King Edward of England, closely related to the German emperor. Notwithstanding the fact that the German court was forced into mourning, the emperor and the empress entertained the Roosevelts and showed them unusual honors. As a special mark of favor the emperor arranged a mimic battle participated in by 12,000 soldiers. The emperor and the ex-president rode over several historic battlefields together and discussed the maneuvers of the opposing armies. Colonel Roosevelt has been suffering from throat trouble during the past week, which has prevented him from accepting several invitations and delivering several informal addresses. Inasmuch as he will be in London at the time of the funeral of the late King Edward, he has been appointed a special representative of the United States at the ceremony.

Colonel Roosevelt will spend several days in various parts of England and is due to sail for home within the next fortnight. As yet no definite plans have been made for his reception in New York, but it promises to eclipse in size and enthusiasm any former homecoming of any American.

AT THE unveiling of the statues of Pulaski and Kosciusko in Washington last week, President Taft took occasion to pay tribute to the foreign soldiers who helped the United States to win independence. The president said: "It is idle to speculate what might have been the success of American arms in the war of the revolution had we not been assisted by foreign nations and the subjects of foreign countries. It is sufficient to note that those who assisted us in that struggle of ours for independence and liberty contributed materially to our success. Hence to Lafayette, Rochambeau, to Von Steuben, to DeKalb, to Pulaski, to Kosciusko and to others it is fitting that there should be erected monuments like this to have it understood that America is grateful and holds in sweet memory those who came to her in her hour of danger and of trouble." Secretary of War Dickinson assisted the president in the ceremony, which was witnessed by a large number of people. The president continued by pointing out the fact that American history is filled with instances where the foreign born have rallied to the support of the flag and maintained the principles of independence.



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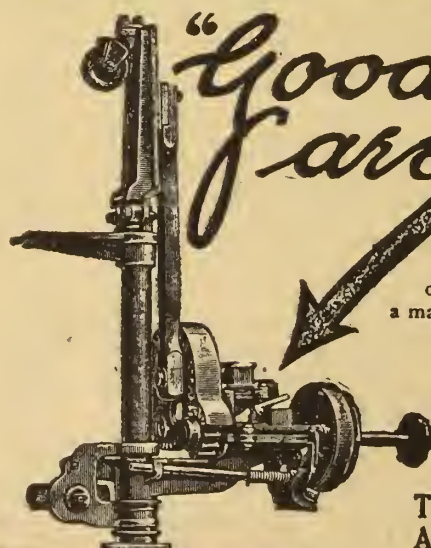
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OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

CONVEYANCE OF LAND—INSANE WIFE.

A Subscriber, Fairfield, Iowa.—A and B are husband and wife. B is in an asylum and hopelessly insane. A owns real estate which he wishes to sell. Can he convey a clear title to the property?

Answer.—A cannot convey a clear title to the land so long as his wife is insane. He can only convey the land subject to the right of his wife to have her distributive share, in case he dies first.

LOSS OF CHICKENS—DAMAGES.

A Subscriber, Greene, Iowa.—A sent his daughter to a store to buy oyster shells for the purpose of feeding his chickens. She obtained a quantity of them, which were given to the chickens, and within two days fifty-four of the chickens were dead. Upon examination of the shells they were found to contain rock salt. A demanded of the storekeeper that he pay for the loss of the chickens, but he refused to do so. Can A recover the value of them from the storekeeper?

Answer.—We do not think that A can recover the value of his chickens from the storekeeper, by law. A was somewhat careless and negligent in not examining the shells before giving them to his chickens, and it does not appear that the storekeeper made any representations about them when he sold them.

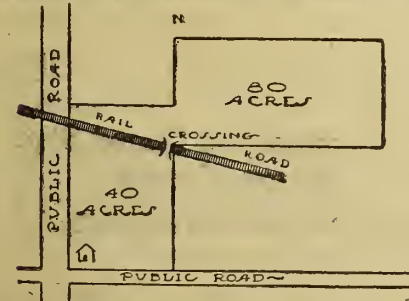
ROAD BY ADVERSE POSSESSION.

A Subscriber, Ft. Atkinson, Iowa.—A public road running north and south divides the lands of A and B. The road is recorded to be on the line between the two tracts of land, but is actually wholly on B's land, and about two yards from the line. The road has been there for thirty-five years. There is a row of willows growing on A's side of the road, which would have to be cut down in case the road should be moved on the line. (1) What steps should B take to have the road moved to the true line? (2) Is B entitled to one-half of the willows?

Answer.—(1) The road having been used and traveled by the public for thirty-five years, and recognized so long as a highway separating the lands of A and B, has become the lawful road, by user and adverse possession in the public, and can only be changed now by regular legal proceedings such as are required to lay out a new road, or alter an old one. (2) B is not entitled to one-half of the row of willows.

RAILROAD CROSSING AND FENCES.

A Subscriber, Waverly, Iowa.—A railroad is to be located across my land as shown in the diagram. The railroad company proposes to furnish me a grade crossing at the point indicated in the diagram, and put in cattle guards and wings similar to those used



at public highway crossings. (1) If I leave the gates at the proposed crossing open, can I recover damages in case my cattle should be killed there by the cars? (2) The company intends to put an overhead crossing at the public road. Can I compel it to furnish me an overhead crossing for my cattle? (3) Can I compel the company to construct a hog-tight fence along its right of way?

Answer.—(1) If you have cattle killed by the cars because your crossing gates are left open, you cannot recover damages therefor from the railroad company. (2) The rule in Iowa concerning private crossings over a railroad track, as announced by the supreme court, is a grade crossing and you cannot compel a railroad company to supply an overhead, or subcrossing, unless you can show that a grade crossing is inadequate. (3) If you construct a hog-

tight fence on all sides of either tract abutting on the railroad except along its right of way, you can then compel the company to construct a like hog-tight fence along its right of way.

PUBLIC ROAD BY PRESCRIPTION.

A Subscriber, Nebraska.—A certain section line has been used as a public road and traveled for twenty years. (1) Does this alone constitute the road a public highway? (2) Has a land owner a right to put gates across such a road where it runs through his land? (3) What proceedings are necessary to open such a road? (4) Is a person who petitions for the establishment of a road required to give bond or put up money to cover expenses of laying out the road?

Answer.—(1) If the section line has been used continuously as a public road by the public under claim of right for more than ten years, it is considered by law to be a public highway, and a land owner has no right to close it by gates. (2 and 3) The road overseer can give the person who closes such a road with gates, notice to remove the same within a reasonable time, and if he fails to do so, the overseer can remove the same at the owner's expense. (4) Where a survey

is necessary to establish a road, the board may require the petitioners to secure the payment of the expenses for the survey.

TIGHT PARTITION FENCE.

A Subscriber, Farrar, Iowa.—A owns 120 acres of land which he uses for farming purposes. He keeps but a few hogs, and they are kept in pens. B owns 120 acres of land adjoining A's farm and keeps a number of hogs. Can B compel A to make his portion of the partition fence hog tight?

Answer.—The last law of Iowa on this subject was passed in April, 1909. Among other things it provides that all partition fences may be made tight by the party desiring it, and when his portion is so completed, and securely fastened to good, substantial posts set firmly in the ground, not more than twenty feet apart, the adjoining property owner shall construct his portion of the adjoining fence in a like tight manner. See session laws 1909, page 135.

FARM CROSSING OF RAILROAD.

Mr. Ed Dodge, Edgerton, Minn.—The Milwaukee railroad runs through my farm from near one corner to the other. When the same was fenced, the railroad company gave me a passage-

way under its bridge, to pass back and forth with stock and teams, and I have used this passageway for more than twenty-five years. The company has recently closed up this passageway, and I cannot cross the railroad now without going to the extreme end of the farm. Can I compel the railroad company to furnish me a crossing with proper cattle guards?

Answer.—In view of the fact that the railroad company has closed a passageway across its right of way which you have used for more than twenty-five years, we are of the opinion that you could compel the company by law to furnish you a proper and necessary crossing. You should put the matter in the hands of a competent local attorney to bring the proceedings in court to establish your right.



PORTER HAY CARRIER

HAS wide open mouth and swinging fork pulley. Fills hay mow full to the roof. Is without exception best hay carrier in the U. S. Send for illustrated booklet of PORTER'S up-to-date hay tools.

J. E. PORTER CO., Ottawa, Ill.

Get a Hay Loader and Side-delivery Rake Made By Hay-Tool Specialists.

This is an age of specialization—the Great Dain line of money-making, money-saving hay tools set the standards of all others because they are made in a hay tool factory by hay tool specialists who have made nothing but hay tools for over a quarter of a century. The Dain Hay Loader and Side Delivery Rake enable the farmer to meet a vital problem—the scarcity of farm help. Either tool is the leader in its kind, and together they make the greatest of all hay harvesting combinations for the man who removes his hay from the field.

The Great Dain Hay Loader

Requires no one on the load but the driver. It pushes the hay well forward, where it can be easily handled. By dynamometer test, this loader has proven to be the lightest draft loader on the market. The ground is practically raked twice by the Dain, as every revolution of the rake overlaps the one preceding. It's the simplest loader made—no long crooked crank shaft, no drum cylinder, no return carrier, no twisted chains, no cams, or superfluous freak mechanism to get out of kilter and cause delay. Gently removes hay from swath or windrow. Takes the hay from low places—passes gently over bumps and other obstructions and reaches into every hollow. These are a few of the reasons why there are more Dain Hay Loaders sold every year than any other kind.

Special Features

No long crooked crank shaft; is operated by swinging pitmans. Patented binged board at bottom to turn up for windrow. Hinged tongue for coupling with any height wagon. Geared to insure greatest hay-gathering efficiency. Height of rakes can be regulated. Hinged apron guides hay to load and prevents blowing off. Nine gathering rakes, each independent. Set any distance from ground.

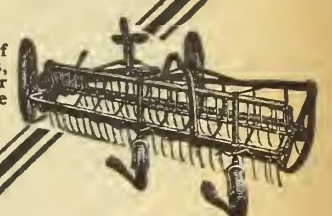


The Great Dain Side Delivery Rake

One cannot always make hay while the sun shines. For that reason you should have a Dain Side Delivery Rake. No matter how heavy or how light the hay, this rake can easily be adjusted to deliver it into loose open windrows, so that every wisp is exposed to the air and quickly dried without sun scorching and bleaching. Air cured hay is sweetest, has best color, and brings the highest price. If your hay should be rained upon, simply turn it over, it will dry. It is a rake and tedder in one—three sets of slowly revolving raker-teeth toss the hay into loose, continuous windrows so gently that scarcely a leaf is broken off. Cushion springs take up the jar when driving over rough ground. Investigate this method of getting more money out of your hay. Also investigate

Special Features

Teeth may be raised or lowered. Teeth turn with gentle motion; harmless to tender products. Rakes clean, leaves trash and dirt. All jars absorbed by cushion springs. Easy regulation of bevel gears. Easily adjusted to handle light or heavy hay.



Other Money-Making DAIN Hay Tools

Learn about the Dain Vertical Lift Mower—the seven styles of Stackers—the five styles of Sweep Rakes and the Dain Presses, you will save money if you do. Consult the nearest Dain dealer, or tell us what Hay Tools you are interested in and receive complete information and valuable book "All About Hay." It's FREE.

DAIN MFG. CO.

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OTTUMWA, IOWA

A Splendid High Grade Automobile For You

Just the kind of a car you want and thought possibly you could not afford—a car with the same splendid, standard features that are found on the highest priced machines.

Big, powerful, quiet running, 30 Horsepower Motor, Four Cylinders, Vertical, Cast in Pairs. Selective Sliding Gear Transmission, Three speeds Forward and one Reverse with direct drive on third speed. Rigid Pressed Steel Frame with reinforced, narrowed front and drop in rear. Ignition Dual System including Bosch High Tension Magneto. 112-inch wheel base, etc., etc.

All the way through, everything that goes in the car is strictly high grade.

The Badger Car is solving the automobile

problem for farmers all over the country—it will solve it for you.

We urge you to write for our booklet giving complete specifications and our wonderfully attractive proposition on the

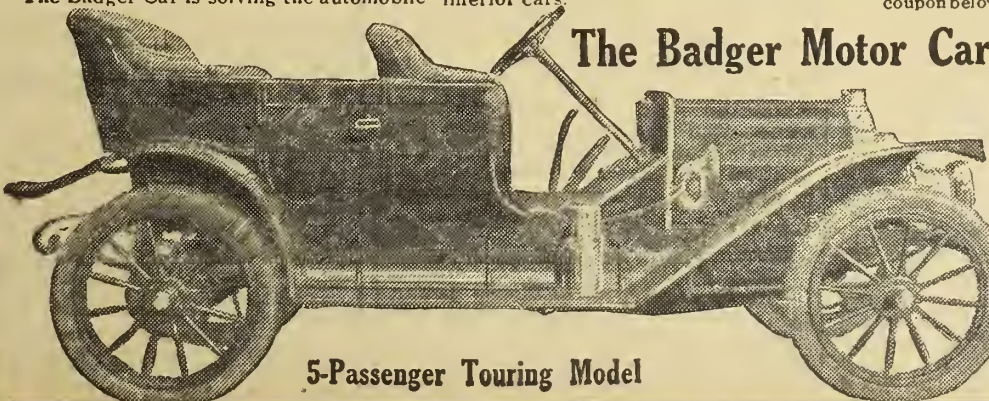
BADGER Motor Car

to prove to yourself that this is your big opportunity to get this strictly high grade car at a price that is lower than is asked for inferior cars.

The Badger Car is noted for its simplicity—women and children drive it easily and with perfect safety. Tire troubles—the largest item of upkeep expense on other cars—are such rare occurrences as to be practically entirely avoided—yet you get the benefit of the easy riding qualities of the finest pneumatic tires.

We know, and we believe you know, that there is no satisfaction in buying a cheap car, so we want you to write for our proposition on this Badger and find out how easy we make it for you to own a good one.

We urge you to do this at once for our output is very nearly disposed of and undoubtedly some who want cars will be disappointed. You certainly should not buy any car at any price until you get all the facts and our wonderful proposition on this strictly high grade Badger. The coupon below is for your convenience—mail now.



5-Passenger Touring Model

The Badger Motor Car Co. 52 Oak Street, Columbus, Wisconsin

The Badger Motor Car Co., 52 Oak St., Columbus, Wis.

Send me prices and full information on Badger Cars.

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HINTS·SUGGESTIONS·DEVICES

We extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A DEVICE THAT SAVES TIME AND TEMPER.

The annoyance and discomfort of having the cow switch her tail and liberally bespatter your face with mud and filth during the milking time, can be avoided with the simple device shown in illustration, which may be made with a piece of wire and a pair of pliers in a few moments. The wire is bent at the center into a spring coil as shown at (b), the one end is then bent into a coil to furnish a hold for the fingers (c) while adjusting the device to the tail, above the brush; the opposite end is bent into a loop as shown at (a) through which a string is tied and the opposite end fastened to the stall, away from the milker. This is easily and quickly placed and as easily released when through milking, the cow cannot strike the milker with her tail thus throwing into the milk much filth and germs, so from a point of cleanliness as well as comfort it is of value.

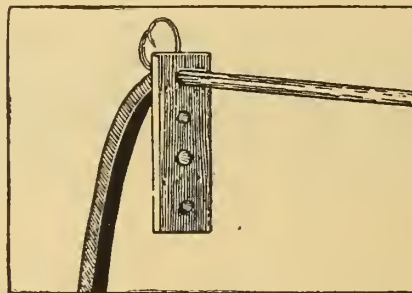
A Handy Guide to Shingling.

In laying a shingle roof the time required is very much taken up with the bother of striking a chalk line and then placing the shingles along this line, requiring practice and skill

to be laid. This permits a second straight-edge to be placed as shown in drawing for the next course of shingles. This may be repeated until four or five courses are laid, thus saving much time and having the space to the weather of each course accurate.

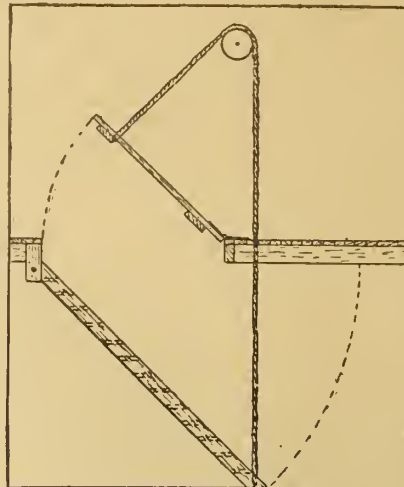
How to Make a Round Belt.

The present day farmer with his many new devices, machines, etc., must if he gets the best out of his machines be more or less of a machinist. Very often a simple thing will lose him much valuable time. A Mis-



souri farmer lately broke a small round belt that was used on one of his machines and was hitching up to drive to town for a new belt when his sixteen-year-old boy told him if

the available spaces suitable for same were in use and there was no place to start the stair except in front of the outside door. After some figuring we built the stairs as shown in



the illustration. A trap door was cut above where the stair landed, and swung on hinges; the stair was also bolted to two timbers in such a man-

ner that they served as hinges. A five-eighths-inch rope was next made fast to one side of the stair stringer as shown, and run up over a pulley at the roof peak and down to the trap door. The door being heavier than the stairs would when closed raise the stair to the ceiling out of the way, which left the floor space as it was before the stair was built. When using the stair it was held down to the floor by means of a small hook on either side. Such a stair might be built in many places in barns and other outbuildings and would save many steps and backaches for the man who is no longer young and frisky. The illustration clearly shows the construction. The strings and treads were good sound 1x6-inch boards and small cleats were nailed under each end of the steps to help hold same in place.

Every machine should have oil according to its needs. It is cheaper to use too much than not enough. Owners of gas engines should be careful of the oil they use. A heavy engine oil may go farther, but simply because the engine does not feed it fast enough just because it is too heavy. If the engine overheats too easily, look to the oil.



AN ABERDEEN ANGUS HERD BULL OF NOTE.

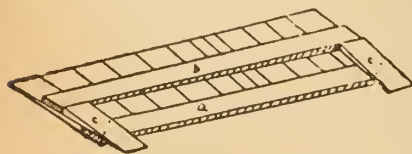
The above engraving represents the Aberdeen Angus herd bull, Imp. Earl Eric of Ballindalloch 100422, at the head of the herd of Messrs. Chas. Escher & Son, of Botna, Iowa. This bull was a first-prize winner at the Perth show and sale of 1906, in competition with over 300 animals. He is considered by many judges to be the best Erica bull in America. He is the sire of many of the bulls and heifers that go into the two days' sale which Messrs. Escher will hold at South Omaha, June 1st and 2d, an advertisement of which will be found on page 29. Catalogs of this sale may be had by writing to Messrs. Chas. Escher & Son, Botna, Iowa.

to do it rapidly. A good plan is to use a straight-edge, which is simply a straight board the length of the roof and a few inches wide. This is nailed to the roof, lightly, after the first course of shingles is laid, with the one edge upon the line the next course of shingles is to be placed. It is then the simplest of matters to place the butt of shingle against this board to get them in line, thus per-

he would wait a few moments he would make him a belt as good as he could get in town. A piece of heavy harness leather was soon found by the boy, which he cut into a round disk and by using a knife and several nails it was soon cut in a long strip about one-fourth inch square (a process known to all boys). He next found an old piece of scrap iron with several holes in it of the proper size, and after grinding the face off, the holes had sharp shoulders that cut the leather as shown in the illustration, when the strip was pulled through same. The result was possibly a better belt than could have been bought in town and saved a drive or trip of several miles. The idea is very simple but it may save others a trip to town.

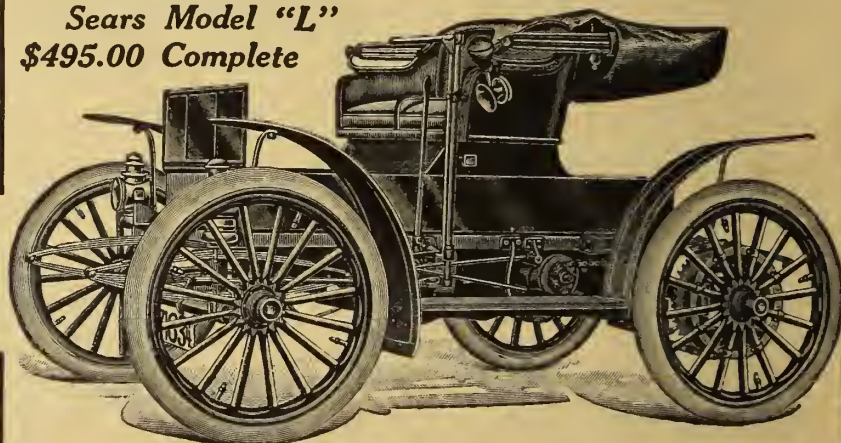
A Handy Stairway.

The writer's poultry house has a feed room in the center and a loft overhead containing quite a lot of space. We concluded to use it for storing seed corn, etc., last winter. All went well until we attempted to locate the stair when we found that



mitting rapid work, as you have only to break joints and nail down the shingles without the chalk line to watch. As soon as this course is laid a shingle is nailed to this board, which is shown at (a) in drawing, with the butt of shingle (c) within three inches, or whatever the width of the second board (b) is, of the space the next course of shingles are

Sears Model "L" \$495.00 Complete



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OUR new Automobile Catalog quotes THE ONLY REAL INSIDE PRICES ON AUTOMOBILES.

In this catalog we show automobiles for \$370.00 and up, six different models, all built by us in our own automobile factory. When you buy a SEARS you get it direct from our big Chicago factory at the factory price.

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Sears, Roebuck & Co. Chicago

The Camp Hydraulic Grain Dump and Elevator

The only portable grain elevator furnished with a HYDRAULIC JACK. We guarantee it will raise a load with less power and can be handled easier than any other jack. It absolutely does away with all the disagreeable features found in other grain elevators. It can be stopped automatically, lowered in a few seconds without power, or placed at any desired position. It makes the Camp Elevator the king of all portable elevators.

MORE MONEY AND LESS WORK FOR THE FARMER

The progressive farmer of today is taking advantage of the short cuts made possible by modern inventions that save time and make farming less laborious. There is nothing cumbersome, complicated or unwieldy about a Camp Elevator. It works perfectly under all conditions, and handles ear corn and shelled corn, oats, wheat, flax and all small grain. It is equipped with many different styles of elevators, spouts and conveyors which can be adapted to any building.

We have a very carefully prepared catalog, which will give you full information how to equip your barns or granaries for easily handling of your grain. This book is worth hundreds of dollars to the big corn raiser. A postal card inquiry will get it to your mail box in a few days. Can we send it?

CAMP BROS. & CO., 96 Depot St., WASHINGTON, ILL.

DAY BY DAY

AGRICOLA

The April frosts did not kill the growing grain in this part of the corn belt, but the drouth of May is testing its power of endurance almost to the limit. And the meadows are not doing well. As it now looks, the hay crop must be light. But this is not a vital matter, as we habitually throw away enough corn fodder to winter our stock, and if hay fails we must save the fodder—that is all.

There will be a light apple crop. All the blossoms were killed, but some

delayed blossoms came on a fortnight later and promise to give us some of the fruit that has been so tempting to human palates ever since Mr. and Mrs. Adam's time.

An Illinois farmer declares that by planting ten or eleven kernels of corn in each hill you get as many stalks as to drill it in four inches apart, that it will grow just as well and, as you can cultivate both ways, you will not have weeds to bother. There may be something worth thinking about in this. We all grow fodder corn here, and we all drill it in, and sometimes we harvest weeds in the fall instead of corn.

But when we possess our souls in patience until June and then drill in the fodder corn at the rate of three-fourths to one bushel of seed per acre, and have all the weeds killed before planting, we are pretty sure of good, thrifty, clean fodder corn, and with only two cultivations.

Another farm crop it does not pay to hurry in planting is parsnips. Wait until June to sow parsnip seed. They will come up quickly then, grow fast, and require only a fraction of the work to keep free from weeds that is necessary with early planting. This is contrary to printed directions of the seedsmen, but it is true in my experience, and I have grown banner crops of parsnips by this method with no failures.

As illustrating how much nearer we of the twentieth century live to passing events outside our immediate neighborhood than was the case with our forefathers, compare the difference in transmission of news. When the king of Great Britain died the news was in the morning papers and in the rural mail boxes the same morning; that is, the death occurred at 11:45 London time, Friday night, and we had the report in our mail box at 9:30 Saturday morning. The news came one-fourth of the way around the world.

But a treaty of peace was signed between Great Britain and the United States on December 24, 1814, and it did not reach America until February 11, 1815, and in the meantime the fierce battle of New Orleans was fought and death claimed its victims, including the commander of the British forces.

And another notable thing is that the treaty of peace did not settle the point in dispute—it was little more than an agreement to stop fighting.

But this battle of New Orleans, although two weeks after the signing of the treaty of peace, did not cease hostilities, for the last shot was not fired until June 30, 1815, or six months after peace was signed. The United States vessel, Peacock, captured the British vessel, Nautilus, June 30th, and the next day the commander heard of the treaty of peace and gave up the prize. The war cost Uncle Sam \$180,000,000 and convinced both nations that it does not pay to fight each other.

We are constantly reminded by writers that farmers are in a constant fight with Nature, and must conquer her. As Agricola looks at it, this is a wrong view. The farmer must work with Nature, for he can do nothing without her. His business is to study her intimately, understand her, cooperate with her, assist her with his own arms of flesh, and lovingly plant the good seed in good ground at the proper season and watch over the tender plants as a mother watches over her offspring.

One drawback to the introduction of the surface cultivator of the knife pattern is the difficulty in getting the right adjustment. The shovel cultivator is readily adjusted, but the knife cultivator needs expert work, and the agricultural men who sell them report trouble in running around to set the knives properly. Some farmers hit the right combination with little difficulty, but others do not and get disgusted and hitch to the shovel cultivator. But it pays to get the hang of the surface cultivators and use them after the first or second cultivation, for they do better work and the corn will ripen earlier.

The
Overland

Your Kind of Car

You will see why the Overland outsells all other cars if you will note its simplicity, its freedom from trouble, and the value it gives for the money.

In city and country, all over America, the Overland has become the most popular car that is made. The average daily sale now exceeds \$200,000. And our four immense factories, employing 4,000 men, can hardly supply the demand.

Yet the Overland is a new car—but little more than two years old. It never was advertised until a few months ago. All its enormous sale has been created by owners telling other people about it.

Any man who is thinking of an automobile should find out about this car.

The Simple Car

There is a single part in each Overland car which takes the place of 47 pieces. All through the car, one piece is made to take the place of many.

There is no complex pump in the Overlands. The lubrication is all automatic. Many an Overland has run up to 10,000 miles without even cleaning a spark plug. One has been run 7,000 miles without stopping the engine.

The operation is by pedal control. One can go forward or backward, fast or slow, by simply pushing pedals. It is as simple as walking. A child can master the car in ten minutes.

A novice can care for an Overland with almost no trouble at all. Any member of the family can run it. In the Government Postal Service, where Overlands are used, the cars have run 500 days without missing a trip.

When a man runs his own car, you can imagine what it means to have such a car as that.

The Lowest Cost

We have \$3,000,000 in modern plants and machinery for making Overland cars economically. The parts are made—like the parts of watches—by automatic machinery. Thus we get exactness to the ten-thousandth part of an inch.

We devote one factory to one model alone. This, with our enormous production, enables us to give more than anyone else for the money.

We sell a 25-horsepower Overland, with a 102-inch wheel base, for \$1,000 in roadster style. The same car with tonneau costs \$1,100. That means a large and powerful car for the usual price of much smaller cars.

We sell a 40-horsepower Overland for \$1,250. Other Overland models cost \$1,300, \$1,400 and \$1,500. All of these prices include gas lamps and magneto.

It is utterly impossible for smaller makers, using old-fashioned machinery, to give what we give for the money.

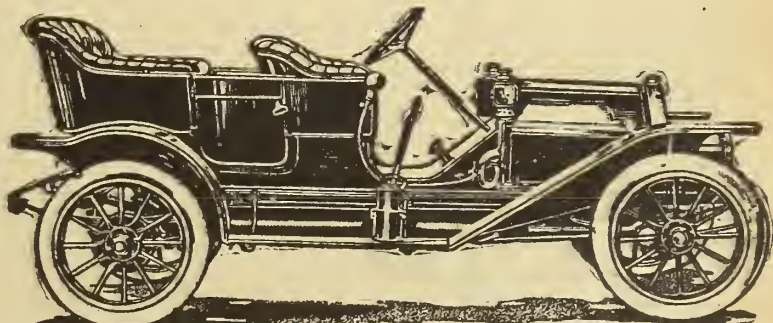
Ask for the Facts

When you see the Overland, and know all about it, no other car will appeal to you. It is easy to find out why so many want Overlands. Wherever you are there is an Overland dealer near by you. If you will send us this coupon we will tell you his name, also send you our beautiful catalog.

Cut out this coupon now.

The Willys-Overland Co.
Toledo, Ohio.
Licensed Under Selden Patent.
Please send me the catalog free.

F 38



Overlands are made in all styles of bodies—some 25-h. p., some 40-h. p. The 25-h. p. Roadster costs \$1,000; with Toy Tonneau, \$1,100. The 40-h. p. Roadster with single rumble seat, costs \$1,250. Other styles up to \$1,500. All prices include five lamps, magneto and full equipment.

(67)

"HALL" Jumbo
Combination Safety Hoist
and Wire Stretcher (Gennett's Patent)

With it you can stretch wire, raise a wagon box, string up a hog and do a hundred other such tasks quicker and easier than in any other.

No matter how worn or wet the rope, the Adjustable Block can be made to fit. The harder the pull the better the grip. Hall Hoists are made in all sizes, 400 lbs. to 20,000 lbs. capacity. Write for prices and full particulars of our Free Trial 30 Day Offer.

Hall Mfg. Co.
410 Main Street
Des Moines, Iowa

2 Grand Prizes

all the Grand Prizes and Gold Medals given to Pumps by the Alaska-Yukon-Pacific Exposition at Seattle last summer, were awarded to
"AMERICAN" Pumping Machinery

The reason why "American" centrifugals obtain higher efficiencies than others is the impellers are accurately adjusted and machined true to fit the casing and the flowlines are all easy curves with no sudden change of direction of fluid in passing through the pump.

"American" centrifugals are made in any size, equipped with any power and guaranteed rigidly. Complete Catalog No. 104 Free.

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Office and Works: Aurora, Ill.
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SEED CORN

Which we guarantee 95 per cent of germination. Give you 10 days' trial. If corn does not prove to be as guaranteed, you can ship it back at our expense. \$3 a bushel, new grain sacks included, f. o. b. Peoria. We can make shipment the same day the order arrives. Can send it by express if you so desire. Give us your order before it is all gone. Address
STOCKER SEED COMPANY, PEORIA, ILL.

"Only" Hog Waterer

THE ONLY does the business both winter and summer. No clogging, no overflow, no bother. We offer you a free trial. Write for booklet, "How to Raise 1,000 Hogs a Year."

ONLY MFG. COMPANY, Lock Box 67,
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STRAWBERRY PLANTS
AT A BARGAIN

EXCELSIOR, Sen. Dunlap, Bederwood, Greenville, \$1.00 per 500; Parson's Beauty, \$1.38 per 500; Glen Mary, Sample, Brandywine, Commonwealth, Gandy, \$2 per 500. Asparagus roots, 50c. per 100. All first-class plants. Rush your order. Surplus list on application. Address
Lake View Nursery, Box 25, Poy Sippi, Wis.

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. **THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.**

YOUNG MEN WANTED—To learn the Veterinary Profession. Catalogue sent free. Address **VETERINARY COLLEGE**, Grand Rapids, Mich.

EMPIRE Cream Separators In Greatest Demand— Dairymen Investigate

40% more cow owners chose Empires last year than in any other year of their long, successful history. No other separator of any price or style even approached this great increase in demand. It proves that dairymen are realizing more and more how much quality counts and that they are investigating more carefully before they buy.

And Dairy Commissioners have been making the rules of cleanliness more strict. That's another reason why more cow owners are choosing Empires. They are kept perfectly sweet and clean without effort, no taint remains to spoil next skimming as is the case with ordinary separators, having nooks, corners, slots and crevices in the bowl parts.

Different Styles

The Empire Line includes not only various sizes and capacities, but different styles of construction, offering widest choice—every machine backed by the Empire Guaranty—as good as a Government Bond. Take your choice, the Frictionless Empire or the Empire Disc—each years ahead of all others in improvements. Let us prove to you that Empires turn easily, skim perfectly and give no bother for many years after ordinary separators have gone to the scrap pile.

FREE—Dairymen's Guide to Dollars. Let us send you our catalog of the complete Empire Line, setting forth the unbiased truth about different styles of separators. Address: **EMPIRE CREAM SEPARATOR CO.** Dept. G 1225 Wabash Ave., Chicago Factory, Bloomfield, N. J.



Cream Separators Rebuilt!

You are losing real money every day, if your cream separator isn't in perfect condition. A slight displacement of the bowl or a worn bushing may lose double the amount a new separator would cost you.

But you don't need a new separator. Although some running parts of a separator wear out easily, the frame and other main parts never wear. So why not use those that are all right, and merely replace the others. Your old separator can be made as good as new and you can pocket the big difference in cost.

\$40 to \$60 Saved!

We can save you fully that amount even though you could trade in your old separator on a new one.

You can send in your old separator, no matter what make it is, and we'll make it as good as new.

Don't Pay Us a Cent

You don't pay for repairs until you get the separator back. Then if you are not well satisfied with the work and the charge, don't pay the bill.

You can't lose on such an offer, so why hesitate? Every day's delay means more money lost. So write today for free information telling how to find out just how much cream your separator is losing and what parts cause the trouble.

Rebuilt Separators. We have a large line of rebuilt separators in all the standard makes. They're as good as new and cost far less. If you need another separator, write for price list. Our low prices will surprise you.

Chamberlain Machine Works

Dept. 103 WATERLOO, IOWA

(1)

YOU WON'T FIND A DEFECTIVE PLANK

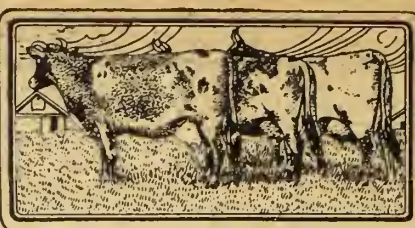
in the Minneapolis Panel Silo—it's all No. 1 lumber from the cap to the foundation. Everybody knows what this means—LIFE-LONG DURABILITY. And note this: Because of our unique construction this good lumber silo costs no more than you will have to pay for the old-style stave silo, which must be made from poor stock to get it anywhere within reach of the average farmer's pocketbook. We use PANELS 2 feet long, tongued and grooved, dovetailed at the ends. All uprights are ONE PIECE. Every bad spot is cut out on the

Minneapolis Panel Shrinkproof SILO

We can't begin to tell you all its good points or what they all mean to a farmer and stockman in this small space—but take our word for it, everyone of them means a handful of dollars to you. So in your own interest write us NOW before you forget, and ask us to send you our book on Silos, Silage and Economical Feeding. Don't think of deciding on ANY silo until you have read this book and done some thinking about what our exclusive points of merit mean to you.

PUFFER-HUBBARD MFG. CO.

Station L Minneapolis, Minn.
Note—We are distributors in the Northwest for the celebrated Climax Ensilage Cutter.



ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

HOLSTEIN RECORDS.

During a single week in April, 151 Holstein cows qualified for the Advanced Register. These records were all made under the careful supervision of the state agricultural colleges or experiment stations, as the Holstein-Friesian Association accepts no private records as officially made. Mr. Malcolm H. Gardner, superintendent of the Advanced Register, has supplied the press with this summary of the week's work:

Fifty-two full aged cows averaged: Age, six years, ten months, twenty-six days; days from calving, twenty; milk, 456.2 pounds; per cent fat, 3.65; fat, 16.651 pounds. Six senior four-year-olds averaged: Age, four years, eight months, twenty-three days; days from calving, fifty-nine; milk, 426.8 pounds; per cent fat 3.67; fat 15.644 pounds. Thirteen junior four-year-olds averaged: Age, four years, three months, one day; days from calving, thirteen; milk, 420.5 pounds; per cent fat, 3.70; fat, 15.545 pounds. Eleven senior three-year-olds averaged: Age, three years, ten months, four days; days from calving, thirty-one; milk, 437.6 pounds; per cent fat, 3.65; fat, 15.979 pounds. Nine junior three-year-olds averaged: Age, three years, two months, eleven days; days from calving, sixteen; milk, 358.1 pounds; per cent fat, 3.67; fat, 13.138 pounds. Twelve senior two-year-olds averaged: Age, two years, eight months, twenty-eight days; days from calving, twenty-seven; milk, 358.6 pounds; per cent fat, 3.76; fat, 13.489 pounds. Thirty-seven junior two-year-olds averaged: Age, two years, two months, one day; days from calving, thirty-two; milk, 329.1 pounds; per cent fat, 3.56; fat, 11.718 pounds.

This herd of 140 animals, of which a little over one-third were full aged cows, produced in seven consecutive days, 56,262.7 pounds of milk, containing 2,046,552 pounds of butter fat, thus showing an average of 3.64 per cent fat. The average production for each animal was 401.9 pounds milk, containing 14.618 pounds of butter fat, equivalent to 57.4 pounds or twenty-seven and one-half quarts of milk per day, and over seventeen pounds of the best commercial butter per week. When a herd of cows, made up as this herd is, can show an average of 3.64 per cent of fat in the milk, and an average production of fat per animal that is equivalent to a production of over seventeen pounds of butter per week, it speaks volumes for the productive capacity of the breed, and leads one to think that the per cent fat in the milk of advanced registry-bred Holstein-Friesian cows and heifers is increasing.

In this issue I have the pleasure of announcing the breaking of the record in seven different classes, and the establishment of a thirty-day record in the junior two-year class of the "eight months division." Alta Posch, 21,661 pounds fat from 586.2 pounds milk in seven days, and Juliana De Kol, 73,975 pounds fat from 1,852.7 pounds milk in thirty days, have for many years held the record in the senior two-year class of the seven and thirty-day divisions; but in a late issue of these reports, I announced that Bloomingdale Hengerveld Model, 85,733 pounds fat from 2,086.3 pounds milk in thirty days, had displaced Juliana De Kol.

Lockhart De Kol has displaced both Alta Posch and Bloomingdale Hengerveld Model, and holds the record for the senior two-year class in both the seven and thirty-day divisions, she having made the very remarkable records of 23,418 pounds fat from 566.9 pounds milk in seven days and 93,226 pounds fat from 2,415.9 pounds milk in thirty days, the run being very even all the way through. While Sadie Vale Concordia 4th's records of 20,007 pounds fat from 412.5 pounds milk in seven days, and 73,378 pounds fat from 2,021.2 pounds milk in thirty days, are much overshadowed by the great records first mentioned, it makes them none the less satisfactory to all concerned as very large for the age.

During the past year, Princess Segis, 19,586 pounds fat from 377.2 pounds milk in seven days, and Bloomingdale Hengerveld Aaggle, 76,082 pounds fat from 1,786 pounds milk in thirty days, have held first places respectively in the junior two-year class of the seven and thirty-day divisions; but these queens of a year must now abdicate in favor of a greater heifer. Segis Walker Pietertje stepping to the front with the proud records of 19,934 pounds fat from 459 pounds milk in seven days and 77,219 pounds fat from 1,936.7 pounds milk in thirty days, only missing by a little the becoming the first twenty-pound junior two-year-old. But a few years ago, no one would have been willing to admit that any heifer under two and one-half years old could produce twenty pounds of butter fat in seven consecutive days; now, we are able to see how advanced registry breeding increases ca-

capacity, and know that it is only a matter of time.

The Advanced Registry system has been a most potent factor in improving the production of the several breeds and the Holstein men have undoubtedly profited as much by the work as any of the breeders.

THE SEVEN-DAY TESTS.

Mr. Malcolm H. Gardner, superintendent of the Advanced Register of the Holstein-Friesian Association, is a staunch supporter of the seven-day

or short period test system. In the last report issued from his office he takes exception to the criticisms which are being urged against the weekly test:

Some dairy writers and instructors, whose conclusions are, in my estimation, drawn from false premises, are teaching that the short-time official test is not a reliable indication of the capacity of the cow for long-time production, and it is only by a comparison of the short and long-time work of cows in one lactation period that we can get any basis for conclusions. It would be admitted by any Holstein-Friesian breeder that if a cow were given every advantage in the making of an official test in the early part of the lactation period, and then left to shift for herself during the remainder of that period, the results would be disproportionate; but would that be the cow's fault or the owner's? Let us examine some results where the good care extends through the year:

Pontiac Artis produced 25.36 pounds fat from 550 pounds milk in seven days, 103.54 pounds fat from 2,488.5 pounds milk in thirty days, under official test in early lactation; and then beginning 267 days from freshening, she produced officially 15.33 pounds fat from 400.3 pounds milk. Besides this official work, she was tested officially for two consecutive days during each of the remaining months of the year, and she now closes her year with a

"HERE IS SOMETHING EVERY FARMER SHOULD KNOW"

WE MAKE THIS OFFER:
If you can find any other separator that under the same conditions will skim to its rated capacity as closely as the double cored IOWA, we will make you a present of our machine

Before you buy any separator ask the manufacturer if he will make you the same offer we make on

THE IOWA DAIRY SEPARATOR

If he won't do so, he the same as tells you that his separator is not as good as the IOWA. If he will duplicate our offer, you will get either his machine or ours for nothing.

There are many reasons why the IOWA is the best separator. It turns easier than any other.

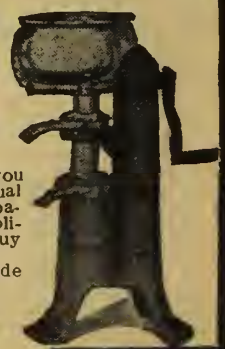
The IOWA is the easiest separator to wash.

The IOWA is the most durable separator made.

The IOWA is the closest skimmer. It is a fact that you cannot buy a machine anywhere at any price that will equal it in any of the above points. But before you buy any separator, protect yourself by asking the manufacturer to duplicate the offer we make in the IOWA. Then you won't buy something for best and get an inferior machine.

Write us to-day. Let us send you our free book of inside information on separators.

IOWA DAIRY SEPARATOR CO.,
113 BRIDGE ST., WATERLOO, IOWA.



Which One Will You Test on Your Farm for Ninety Days? Freight Prepaid

Which will you try, 30 Days' Free or 90 Days' Approval Test?

—Any capacity from 200 to 950 pounds per hour, according to your needs, and I'll save you from \$25.00 to \$50.00 on the price.

—The only Separator whose gearing runs in a "Bath of Oil" like a \$5,000 automobile. Feature worth \$50.00 alone.

—Automatically oils itself—Pour oil at the top, once a month from your oil jug or can—No danger of running dry, or ruining it like others—No oil cups to remember to fill or turn up twice a day.

—Dust-proof—Danger-proof—All gears enclosed—simple but standard built and absolutely dependable.

GALLOWAY'S New "Bath in Oil" HIGH GRADE STANDARD CREAM SEPARATORS

—Has the only revolving supply tank—worth \$15.00 alone.

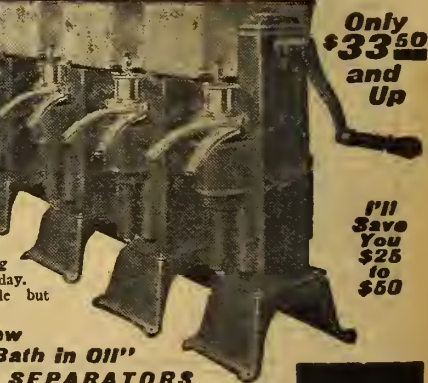
—Easiest to clean and the few parts come out easy and can't get back out of place.

—Easiest to run—high crank—low tank. With no high lifting and no "back-breaking" cranking.

—Gets the finest quality cream and all of it—no lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down.

—Skims closest in any climate or season, no matter whether your milk is warm or cold.

—Is as handsome a machine, compact and substantial, as you ever saw or could find. Beautiful finish.



Only \$33.50 and Up

I'll Save You \$25 to \$50

—Let me send you my Big New Separator Book—post paid—Free, so you and your wife and the boys and girls can talk it over and then try one of my separators under my easy plan for you to do it. You'll call it the best if you test it alongside any of the highest priced \$85.00 and \$110.00 separators sold by anybody today—makers—catalog houses—dealers—jobbers or anybody else. Write me today.

Wm. Galloway, Pres.
WM. GALLOWAY COMPANY
103 Galloway St., Waterloo, Ia.

CARLOAD OF Omega Separators WHILE THEY LAST

No. 1—325-350 capacity.....\$33.00
No. 2—400-450 capacity..... 39.00
No. 3—500-550 capacity..... 43.00

It is the only Cream Separator made which has a positive bearing at both the top and bottom.

ORDER TODAY

**Cedar Rapids
Machinery and Supply Company,
Cedar Rapids, Iowa.**



credit of 861.527 pounds fat from 21,834.7 pounds milk, gaining second place in the long-time list.

Winana Pietertje De Kol 3d calved at two years, six months, twenty-four days, and thus must be classed as a senior two-year-old. In early lactation she produced 19,567 pounds fat from 329.7 pounds milk; then, beginning 266 days from calving, she produced 10.93 pounds fat from 275.5 pounds milk; and now she has closed her year's work with 585.09 pounds fat from 15,025.5 pounds milk, and broken the record for her class.

K. P. Alcartra, calving at two years, two months, seven days, produced officially during early lactation 16.33 pounds fat from 437.7 pounds milk in seven consecutive days; now she has closed the year with the wonderful record of 609.17 pounds fat from 15,528.3 pounds milk, and stands at the head of her class. One may assert, without fear of contradiction, that these cows made good.

The superintendent has, it will be noted, very moderately limited himself to but three noteworthy examples. Had he chosen to do so he could, of course, have supported his contention with a long list of illustrations. This would have been quite unnecessary. We all know that the great majority of breeders and dairymen are not keeping cows for the sake of making records—either seven or thirty days in length. Men are feeding and milking cows very largely for the money there is in it. They want a cow which will produce milk and butter in paying quantities some forty odd weeks in a year and for several years in direct succession. Dairymen, as a class, make their profits out of the "repeaters" and cannot afford to place much dependence upon the "has beens," however wonderful their records may have been.

Nevertheless, there may be and probably are those who overdo the seven-day test. These men work their cows so hard in the "cow races" that they are almost sure to suffer more or less of a relapse and in many instances their future usefulness is very much impaired by the overcrowding. Whether to blame the owners or the "system" for such results, is the question.

MILKING YOUNG COWS AND KICKERS.

To the Editor of The Homestead:

It is a disagreeable undertaking to pail a kicking cow, as many a farmer's boy or hired man will bear witness. In fact she is an animal that is most generally despised by everyone on the farm, and many a good milk cow has found her way to the butcher for being a kicker, when if she had had the proper training or had been broken to milk in the right way and at the right time she would have never formed this disagreeable habit, and would have been worth twice as much for a dairy cow as she would for beef.

When a heifer has her first calf, then is the time and only right time to teach her what it is to be milked and teach her the all-important lesson of gentleness. At this period when her calf is only a day old, she is likely to be a little nervous and only knows what nature has taught her. When you take the calf away from her and begin milking her she naturally thinks there is some kind of danger pending, and will begin to use the weapons that nature has provided for her to defend herself. The way I break a heifer to milk her is by simply treating her kindly and yet giving her to understand that I am her master. I always milk her first where she can see her calf. I tie her to a post or something that will hold her so she can't run away from me and then give her something to eat and at the same time I will rub and pet her until she becomes gentle. Then I take a cup or small pail in one hand while I milk with the other, all the while keeping up close to the animal's side with my left shoulder pressed against her. During the operation I go about and act in a happy-go-lucky way, as though it was an everyday occurrence with her. By so doing you are not so apt to excite the animal and a young cow or heifer is not apt to kick unless she becomes vexed or excited. However, this plan will not always work and sometimes it will be necessary to manage her in different ways. If, however, she will not submit to kind treatment I would then advise the same plan I use for breaking an old experienced kicker.

When an old cow with her third or fourth calf has been allowed to kick

ever since she was with her first calf it is a hard matter to break her, but it can be done in several ways, and the best way I have ever found is by putting them in what I call the milking stocks. This is a device of my own planning, but has worked well on several cows that I bought at a low price because they were kickers. In the first place, I set a post firmly in the ground for a hitching post and back of this one I set two more four feet apart. Those two are twelve feet away from the first one and then I spike a cross beam across the first post two feet from the ground. This cross beam is four feet long. I then fasten a pole from either end of the beam to the post back of it so when the cow is tied to the hitching post she is between the two poles. After this is done I fasten a piece of 1x6-inch board just in front of her hind legs and when she kicks she will kick the board, thus administering punishment to herself for misconduct. A few kicks and she will decide that it is a bad idea, as every time she kicks she hurts herself and will give it up entirely. I always use the stocks for about three or four days and then milk them in the usual way and I have never found a cow that this would not break from kicking in less than a week.

L. G. Johnson.

SHALL WE DEHORN COWS?

To the Editor of The Homestead:

I noticed an article on the above subject by E. L. Vincent in The Homestead, and will say that I never have any cattle with horns. I raise all the natural muleys I can and if any of them have horns they are sure to lose them in November or the last of March, before they are one year old. They should be dehorned when the weather is cool and the flies are dormant. I have, however, dehorned a good many cows and what first gave me nerve to dehorn a big cow was because she gouged a two-year-old heifer. She was mad when I commenced to saw (I always use the saw), and when I got through with her she started to gouge the heifer again, but never touched her, as she was calculating on a horn at least six inches long. Before night the two-year-old could drive her around the yard. In dehorning before cattle are one year old it bothers them for a few days, but makes their entire after life more agreeable. I use flour to stop the blood, and nothing else.

Fayette Co., Iowa. A. L. Foote.

THE MAKING OF CORN.

What is corn made out of and where does it come from? Of course it is not made out of nothing. The answer is that corn, in common with other plants, is made out of food. The food for plants is just as important as the food for animals. In a recent address Dr. Hopkins of the Illinois Agricultural College told some things of general interest concerning plant foods. Among other things, he said: "One bushel of oats requires one pound of nitrogen to produce the grain and straw; one bushel of corn, one and a half pounds of nitrogen, one bushel of wheat, two pounds of nitrogen. If you can't furnish the nitrogen you can't make wheat. One ton of average fresh manure contains ten pounds of nitrogen; one ton of clover hay, forty pounds of nitrogen. Two-thirds of the nitrogen is in the grain and one-third in the stalks of corn or the straw of small grain. These five facts tell how much nitrogen you sell in the grain and how much is retained. They also tell how much nitrogen can be returned to the soil in a ton of manure and by plowing under a ton of clover." It will be noted that corn and wheat make large demands on the soil for nitrogen, which accounts for impoverishment of the soil by these crops unless adequate return is made. Such return can be made by manuring the land or by plowing clover under. Still another method of restoring nitrogen to the soil is by the use of fertilizers obtained from the packing houses, but they are quite expensive. Recently it has been discovered that if limestone be decomposed by a strong current of electricity a large amount of nitrogen is absorbed from the air and fixed in the resulting product in the course of the operation.—Keokuk (Iowa) Gate City.

EVERYBODY HAVING COWS WILL SOME DAY USE A DE LAVAL CREAM SEPARATOR



Nearly 1,200,000 farmers, creamerymen, milk dealers and owners of country homes, throughout the world, are already using De Laval Cream Separators, and 150,000 or more are being added to the number every year—many more this year than ever before.

If you haven't a De Laval Cream Separator already you can't be anywhere near the head of this tremendous procession that started thirty years ago, but it will be foolish to wait to bring up the tail end of it.

The use of a De Laval Cream Separator—with even a single cow—means more and better cream and butter, warm and sweet skimmilk, less labor and more profit, twice a day every day in the year.

A De Laval Cream Separator saves its cost in a few months, not only over any other method of creaming milk but over any imitating cream separator.

Then why not fall into the De Laval procession now? You can't recover the waste and worry of previous years, but you can stop it going further. Why not do so? Every day of delay means just that much more waste of product, quality and dairy comfort. Why prolong it?

De Laval Cream Separators are made for one cow to one thousand, in proportionate size, style and price, and sold for cash or on such reasonable terms that they actually pay for themselves.

They are sold direct or through local agents. If you don't know the nearest agent write for his name and a catalogue, which we shall be glad to send you.

THE DE LAVAL SEPARATOR CO.

165-167 BROADWAY
NEW YORK

42 E. MADISON STREET
CHICAGO

DRUMM & SACRAMENTO STS.
SAN FRANCISCO

173-177 WILLIAM STREET
MONTREAL

14 & 16 PRINCESS STREET
WINNIPEG

1016 WESTERN AVENUE
SEATTLE

PHEASANTS AS INSECT DESTROYERS.

(Continued from page 7.)

preciated; the birds destroy enormous numbers of injurious insects—upwards of 1,200 wire worms have been taken out of the crop of a pheasant; if this number were consumed in a single meal, the total destroyed must be almost incredible.

"There is no doubt that insects are preferred to grain. One pheasant shot at the close of the shooting season had in his crop 726 wire worms, one acorn, one snail, nine berries and three grains of wheat. From the crop of another pheasant 440 grubs of the crane fly and the dady long legs—from the crop of another pheasant forty-eight snail shells were taken. Eight young vipers, weighing about one-fourth ounce each, were taken from the crop of a hen pheasant.

"An instance is reported in the London Field of a pheasant, which when found, had swallowed about six inches of a viper, whilst about eight inches of the tail part of the reptile was protruding from the mouth of the bird; both the bird and viper were dead.

"Another instance is recorded of a pheasant which, on being killed, had no less than 1,225 leather jackets—a most destructive larvae—in its crop."

It is fond of carrots, potatoes, beets, cabbage and turnips in the winter time; although if dandelions are fed to caged pheasants they will eat them in preference to most any vegetable food, roots and all.

The pheasant is also very fond of many of the wild weed seeds, such as legumes, thistles, especially the burr thistle, wild carrots, sunflowers, wild lettuce, mayseed, marsh elder, and mustard seeds.

As a table food, and also as a game bird, the pheasant has been held as the leading bird for these two qualities by the kings, royalty, wealth and educated people of the world for more than 2,000 years as being of the greatest sport and richest delicacy. No other bird has held such a position, and it will be a long time before any other bird can gain such distinction.

The home of the Chinese ring-neck is largely in the mountains, as well as in the valleys of China, and they are accustomed to very severe weather, as it inhabits the high altitudes, and yet adapts itself to the lower altitudes, as low as sea level. It is a thoroughbred bird, and has been imported into England in considerable numbers to breed up the English pheasant.

Chinese ring-neck pheasants are doing well, liberated in the mountains of Colorado, up to 9,000 feet altitude.

The Feathered World, London; Frank Finn, F. Z. S., says: "The Chinese pheasant, like his human fellow countrymen, is very hardy, and will thrive anywhere, bearing the cold of a United States winter and the heat of a Bengal summer quite well. It is also a good breeder and bears confinement well."

The government statistics show that the damages done to the growing crops of insect pests, largely owing to the destruction of insectivorous birds, is estimated at something like \$800,000,000 per annum. This amount would feed and care for many millions of pheasants and other insectivorous birds.

At the last annual meeting of the New York Zoological Society \$60,000 was given to be used entirely for the study of pheasants, and the best methods to be adopted for the introduction and distributing of these birds into the United States.

In a number of states the next legislature will be asked to pass liberal appropriations for propagating the pheasant and other insectivorous and game birds and the distribution of literature to instruct and aid the people in the hatching of the eggs and rearing of the birds about their country homes.

If every farmer, land owner and bird lover in the country would either secure a sitting of pheasant eggs and hatch them under a common hen and rear them like young chickens, or buy a pair of these birds, the problem of how to destroy insects would soon be solved; and I would recommend that farmers avail themselves of this economic opportunity.

ADVERTISING NOTES.

The American Well Works Company, of Aurora, Ill., whose advertisement appears on page 11, made some remarkable showings of their goods at the Seattle Exposition last year. All the grand prizes and gold medals given on pumps were awarded to machinery of their manufacture. The unquestionable value of these goods may be learned in detail from pump catalog No. 104, an illustrated and descriptive price list which is sent free to readers of The Homestead who write for it to the American Well Works Company, of Aurora, Ill.

North Dakota Land.

Messrs. Wheelock & Wheelock, of Fargo, N. D., whose advertisement will be found on page 23, have for sale an excellent section of North Dakota land. They have both improved and unimproved farms, large tracts or small ones. The firm have been established for more than a dozen years and have a record for honesty and reliability. They will be pleased to quote terms or descriptions, for which write to Messrs. Wheelock & Wheelock, Fargo, N. D.

The Goodhue Windmills.

Windpower is the cheapest on earth, just as the Goodhue windmill is as good as any. It is a matter of record that the cost of repairs on a Goodhue windmill has averaged less than four cents a year. The Goodhue windmill outfit advertised on page 8 accomplishes its work just as good as any other means and at much less cost. What other arguments are needed? If you do need others, write to the Appleton Mfg. Co., 39 Fargo St., Batavia, Ill., and ask for catalogs and price list.

The Chilly King Cooler.

The advertisement of the Chilly King cooler will be found on page 19 of this paper. Every farmer and every dairyman who understands his business recognizes the fact that rapid cooling of milk tends to better and more profitable results. The manner in which the Chilly King cooler is constructed insures quick and effective cooling. This cooler is sold direct to farmers under an absolute guarantee that it will give satisfaction or money will be refunded. For special prices to readers of this paper, write to the Chas. Skidd Mfg. Co., 1010 Milwaukee Ave., Kenosha, Wis.

The Farm Water Problem.

A recent issue of The Homestead, in an article on "Farm Homes," contained the statement that a perfect water supply system was possible on every farm. As a means of securing such a system, information in detail is given in a book entitled, "Water Supply for the Home." This book is published by the Goulds Mfg. Co., No. 96 West Fall St., Seneca Falls, N. Y., and may be had free of charge by all our readers who forward a postal card request to that address. The company manufacture hydraulic pumps and pumping machinery and are preparing to give extended information upon the subject. See page 18.

The Carriage and Harness Buyers' Friend.

For more years than a good many of our readers can remember, the Elkhart Carriage and Harness Mfg. Co., whose advertisement will be found on page 2, have been in the business of supplying farmers direct with carriages, wagons or harness. They have succeeded in this line because they have sold direct to farmers, at prices so low as to permit only a very small margin of profit. The method, however, secured a great bulk of sales that has brought them success. The company have issued a new catalog for 1910, which gives complete details and descriptions of all the vehicles now produced, as well as an extended line of harness. This book may be had free of charge by writing to the Elkhart Carriage & Harness Co., Elkhart, Ind.

The Badger Motor Car.

A representative of The Homestead recently visited a very small town, where he was informed that within a radius of four miles more than forty-eight automobiles were owned, and these principally by farmers. This fact illustrates the present condition, that farmers, more than any other class, find automobiles a practical aim for their business. In this connection it is well for our readers to investigate thoroughly the merits of the Badger motor car, as advertised on page 9 of this issue. It is a simply constructed car, light, with a thirty horsepower motor, and so good that it will compete with any other make. The manufacturers are making a special proposition to readers of The Homestead, by which a Badger may be secured at special introductory prices. These may be had by writing to the Badger Motor Company, 52 Oak St., Columbus, Wis.

A Nebraska Ranch.

Mr. J. E. Armstrong, of York, Neb., is offering a very desirable ranch in Pierce county, Nebraska, at a price considerably lower than this property should bring. Pierce county is in the northern part of the state where there is plenty of rainfall. This ranch is only a short distance from Foster on the C. & N. W. railway and is within good driving distance of Pierce, the county seat. This ranch is only about seventy-five miles from Sioux City and has good railroad service to both Sioux City and Omaha. Foster is a good, live town and has good schools and churches. Pierce is one of the best towns in this part of the state and is growing rapidly. The entire tract is good alfalfa land and is also suited to growing all kinds of grain. Mr. Armstrong is offering this tract at a real

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

COLORADO needs 20,000 more fruit-growers to help supply her world-wide markets for apples, peaches, pears, plums and other fruits. Do you want to know how to make a yearly profit of \$75 to \$350 an acre on apples, peaches, etc., and a profit of \$50 to \$275 an acre on small fruits? Let us tell you. Colorado fruit-growers conquer frosts by using smudge-pots, thus getting a full crop every year. For information and literature on Colorado fruit lands, write State Board of Immigration, Room 21, State House, Denver, Colorado. We are supported by the state and sell no lands.

STOP! Investigate North Dakota. Here, health and wealth go hand in hand. 50,000 acres our own land, counties of La Moure and Stutsman; greatest land bargains in America; \$25 to \$30 per acre; choice farms; improved and unimproved. Easy terms if desired; near railroads; good towns; every convenience. Will double quickly. One crop often pays for this land. Maps, literature, full particulars, free. Land shown from our own automobiles. Write Shells & Weaver, 103 Main Street, Edgeley, N. D.

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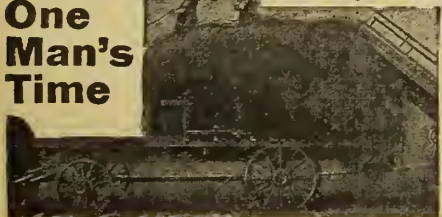
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VETERINARY

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SYMPTOMS AND TREATMENT.

STERILITY.

I have a thoroughbred Jersey cow seven years old which it seems impossible to get with calf. I have had her almost two years and she has come around regularly about every three weeks, the bull covering her every time. I have noticed blood in the urine lately. She has been giving on an average a gallon of milk since the last calving time about three years ago. I have done nothing with her.

When she is in heat have the mouth of the womb opened by an expert and then have her bred an hour or so after the operation. It may be that there is some mechanical obstruction present, apart from closure of the os uteri, and in that case the operator may be able to help matters. It is not a case that the owner can successfully handle.

WORMS—ABNORMAL BREATHING.

(1) I should like to ask if it will harm the colt to treat the mare for worms. We noticed some worms last fall and gave the mare some worm powder, but it did no good. We then let her go until about January when we found some more worms in the manure. We then tried wood ash, but this did no good. The worms are about four inches long, and thin. She will foal now almost any time and we do not want to treat her any more until we get your advice. She eats well and drinks well, but is a little thin. (2) We also have a heifer about two years old that makes a sound like a heaved horse when she breathes. She was troubled a little last fall, but nothing to speak of. In the winter she got rid of it, but when she was turned on pasture again she got it and is worse than ever. It seems that she cannot breathe through her nostrils very well because she opens her mouth when drawing her breath and makes kind of a snoring sound.

(1) It is not safe to give a pregnant mare strong medicines to kill worms. The medicine may do more harm than the worms and the latter will pass from her on grass. Raw potatoes or raw onions can safely be fed and tend to remove worms. They should be given in small quantities at first and the amount gradually increased as required. (2) Have the heifer tested with tuberculin, as we suspect tuberculosis of the glands of the throat as the most likely cause of difficulty in breathing.

PROLAPSE OF RECTUM—OEDEMA.

(1) What is the cause of the back intestine of a horse breaking off and a piece a foot or more in length coming out? What could be done in the first symptoms in another case of the same kind? The horse has had the same feed and care as others that were with him. (2) I also have a mare heavy with foal that had a large round enlargement on the under side of the belly. It seemed like it was swollen, but when I pressed it with my finger it would leave an impression in it for some time. It is gone now. Will it be likely to return again, and what should I do for it? What is the cause?

(1) We are not just sure what condition was present, as your description is rather indefinite; but we suspect that there was a prolapse (eversion) of the rectum due, possibly to scouring or constipation or the irritation from worms. At the first appearance of such a condition (piles) soothing treatment should be adopted, such as the free use of witch-hazel ointment and the horse should be fed on soft food and given flaxseed tea to drink. (2) When a pregnant mare is tied up in a narrow stall she is afraid to lie down and dropsical swellings (oedema) of the legs and belly are apt to occur. They disappear with exercise and are less likely to appear if the mare is given a roomy box stall in stable.

SICK LAMBS.

I have some lambs that have something the matter with them. They seem to be all right for a while and then become lame in the hind legs and stiff in the back so that they can hardly walk. When they lie down they can hardly get up. One died and some more are affected in the same way. I did not examine the one that died. Their droppings seem to be all right, but there is a kind of mucus or slime with it which looks white. They are so bad that they do not follow their mothers, but when the mothers are put with them they suck all right. They are nice and fat and I don't know what the

cause could be unless it would be the change of weather. It snowed on them during the last storm and they were out all day. I should appreciate it very much if you could tell me what to do for them.

Lambs should not be allowed to get wet if that can possibly be avoided. Sheep stand all sorts of weather well, except wet and driving snow. If the lambs have been castrated we would suspect infection by way of the scrotum; or if not castrated, by way of the navel which may become infected from lying on dirty floors at birth. Keep floors clean and disinfected and wet navel with a 1-500 solution of corrosive sublimate at birth and repeat daily until part is perfectly healed. There is less danger of infection when lambs are born on grass and the weather does not necessitate putting them into pens. Infection from castration proves fatal. It may be prevented by using a clean knife, putting the castrated lambs onto new grass and using a disinfectant, such as a 2 per cent ointment of iodoform in lard, in the scrotal wounds.

ABSCESS.

One of my neighbors and I bought quite a number of stock steers that we picked up in different places, to winter. We cut our timothy and clover hay late last year and have been feeding it to them. The steers have been troubled with lump jaw, not on the bone, but on the throat and the side of the neck. I would like to know if cutting their hay late causes this. What would you advise to cleanse the wound with after the lump has been lanced?

The hay would not be more apt to cause this on account of late cutting. The disease may not be carried to the steers by hay, but by grain or fodder. Small scratches or wounds become infected by the the fungus of lump jaw (actinomyces). After opening freely swab with dilute sulphuric acid if it is certain that actinomyces was present; otherwise swab with tincture of iodine freely in and around the wound and repeat with this daily. If the acid is used it need not be used more than once a week.

ITCHING SKIN.

I have a black mare weighing about 1,200 pounds, that will be three years old in August. I have worked her this spring. She is always rubbing herself and seems to crave dirt, as she will eat large lumps at a time. She has a good appetite and is in good shape. I have noticed this for about a month and am very much puzzled over it. Have not given her anything for it.

Have her clipped and cut the grain ration down a half. Do not feed corn. She will do best on oats, bran and hay. Green grass at first often leads to itchiness of the skin. After clipping apply to itching parts as required a mixture of one dram each of dilute sulphuric acid and carbolic acid in a pint of cold water. A little menthol added is effective where itching is excessive. Wash affected parts before the first application of medicine is made. If the trouble continues give her a tablespoonful twice daily of a mixture of equal parts of powdered wood charcoal and granular hyposulphate of soda.

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White Holland Turkey Eggs FOR SALE. \$1.50 for 11 eggs. MRS. JOHN S. TEALE, R. 4, Lamoni, Iowa.

TOO LATE TO CLASSIFY.

CUT PRICES ON BARRED P. ROCK EGGS

THREE pens, all strongly Bradley bred; one pure-bred Bradley pen; two pens cockerel mating; one pullet mating. Special prices next thirty days. Best of stock. Mrs. L. C. Reese, Prescott, Ia.

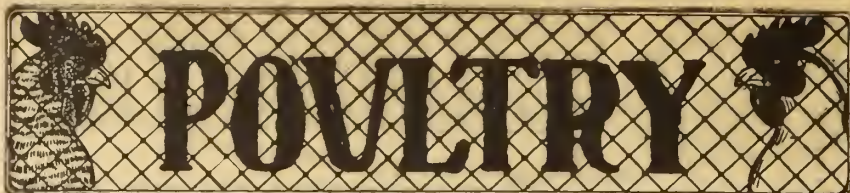
CLOSING-OUT SALE

OF S. C. Rhode Island Reds at summer prices, to make room for young stock. Reduction on eggs. Free catalog of valuable information. Winners at State Fair, 1909, and Omaha, 1910, only places shown. Both combs. Mrs. F. W. McIntyre, R. 5, Red Oak, Ia.

1 Off Egg price after June 10th; 1/2 off May 20th. B. Orps. S. Show winners; Cook's strain; others. Catalog. Alfordell Poul. Co., Box 423, Farnam, Neb.

WANTED—S. C. W. Leghorn yearling hens; also chicks from 2 to 3 mos. old; any number. State lowest price. American Poultry Plant, Collins, O.

S. C. W. Leghorn, Wyocoff strain eggs; S. C. Buff Orpington. Cook strain; \$1 per 15; \$4 per 100. Mrs. Walter Hoar, Kent, Iowa.



This department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

WHAT AILS THE CHICKS?

To the Editor of The Homestead:

The following communication has been received from a Nebraska subscriber:

I would be pleased to know what ails my chicks. We hatched 110 and they all lived five days. Then thirty died from what seemed to be bowel trouble, while others that seemed all right would get droopy and then die in less than an hour. Their feed at first was ground wheat, and later on I fed millet seed.

It is very common for the writer to get such sad tales of woe, and it always makes me feel bad when I read them. But until the public is more fully educated up to the right and wrong methods of incubation, I shall expect to hear of just such cases. There is no doubt in my mind that in cases such as our correspondent's, faulty incubation is the cause. Time and space will not permit a complete and concise treatment of this matter, but I will give you my experience; both in the hatching and brooding of chicks.

The fact that our correspondent hatched 110 does not show that they were hatched right. The eggs might have been strong enough to stand certain conditions and still have sufficient vitality left to get out of the shell, but anything that may be done to injure the blood of the chick during incubation, such as overheating, becoming chilled or improper ventilation, more or less impairs its chances for a long career on this earth. Great care should be taken to keep heat regular and just as great care should be exercised to keep the air pure. The air is a part of the life of that chick and a good, big part, too. It should be supplied in its pure state; it does not necessarily need to be cool air in order to be pure, as so many people think. A good incubator will supply pure air if the operator will do his part, and will do it in such a way that the temperature is not deranged in any way. At hatching time the supplying of this air is absolutely essential. If the chicks happen to spend a long night breathing air that has been breathed several times, they will never be of much value to their owner and, after hatching, brooding is the essential. Just simply supplying heat cannot always be called brooding. Nature must be patterned after as much as possible. We all know that the hen is an uncertain quantity and no business can be run to any great magnitude by depending upon her as a hatcher and a mother, but you can pattern after her.

Just what our correspondent meant by ground wheat I cannot say, but in all cases the bill of fare was not much of a variety. Forty per cent cracked corn, 40 per cent cracked wheat and 20 per cent pin-head oatmeal makes a fine mixture if properly fed. Our correspondent says nothing about grit, charcoal, pulverized oyster shell and water. All are more essential than food for the first seventy hours of their life, and then care should be taken not to overfeed them. I find that where food is withheld as it should be, a wonderful appetite is stimulated, and if that appetite is kept up there is but little danger of loss by feeding, but when the attending attempts and succeeds in satisfying that appetite, bowel trouble (indigestion) is the inevitable result. There is no use of talking about a cure; medical treatment to a young chick is a foolish undertaking, but put your whole mind upon studying the cause. When you locate it, then be careful not to get caught again in the same trap.

C. E. Matteson.

REMARKABLE SUCCESS WITH INCUBATOR CHICKS.

Dear Editor:—I run several incubators and have good success with my hatches, but have lost thousands of the little downy fellows from bowel trouble. A lady recommended Walker's Roup and Cholera Remedy, so I

sent a 50c M. O., for a box (post-paid) to the Walker Remedy Co., Dept. U. 12, Lamoni, Iowa. I tried it on 350 chicks and they grew very strong, being nearly full-feathered at four weeks. I never lost one from bowel trouble. It is certainly great for incubator chicks; gives them strength and vigor, as well as preventing bowel trouble.

Bolivar, Mo. Mrs. A. D. Wells.

There are two prominent causes of indigestion: poor cooks and good cooks. Poor cooks deal out heavy, soggy stuff that is an insult to any Christian stomach, and good cooks tempt to overeating with their abundance of appetizing dishes. The simple life is the best and good, clean food is best. Overdo nothing except the chewing and your food will "agree with you."

POINTERS.

—The new advertisement of Mr. L. C. Coleman, of Mt. Pleasant, Iowa, which appears on page 17, notes some specially low prices on eggs of the various breeds of poultry which that gentleman raises.

—In order to reduce stock and make room for birds now hatching, Mrs. F. W. McIntyre, of Red Oak, Iowa, will sell Single Comb Rhode Island Red eggs at summer prices. See her advertisement on this page.

—Single Comb White Leghorn fowls, either yearling hens or chicks from two to three months old, are offered for sale by the American Poultry Plant, of Collins, Ohio, as announced in their advertisement on this page.

—Mr. J. A. Penn, of Alta, Iowa, who breeds Barred Plymouth Rock and Single Comb Brown Leghorn chickens, announces on page 17 that he has made an unusual reduction in the prices of eggs of these two breeds.

—Mrs. L. C. Reese, of Prescott, Iowa, announces in an advertisement on this page that for the next thirty days she is making greatly reduced prices on eggs from her Barred Plymouth Rocks. Descriptions of her pens are noted in the advertisement.

—Mr. E. A. Taylor, of Boone, Iowa, who breeds Rose Comb Brown Leghorns that have won blue ribbons at many poultry shows, is offering eggs for sale in his advertisement on page 17. It will be noted that the prices quoted in the advertisement are very low.

—Chamberlain's Perfect Chick Feed has been advertised from time to time in the columns of this paper. The value of this feed is indicated in a recent letter written by Mrs. J. W. Harris, of New Virginia, Iowa, who, in forwarding an order for 200 pounds of Chamberlain's Perfect Chick Feed, stated that she had used it for years and thought it the best that could be obtained. This feed is made by Mr. W. F. Chamberlain, of St. Louis, Mo.

—Those who are not yet fully supplied with Barred Plymouth Rock eggs for hatching should note the advertisement of Mr. J. H. Chandler on page 17 of this issue. Mr. Chandler breeds high-class birds from the best obtainable stock, and although his prices are perhaps not as low as some, he guarantees the quality to be right up to a high notch. A good deal of important information, besides descriptive matter, is given in his handsomely-illustrated catalog which is sent free to readers of The Homestead who write for it to Mr. J. H. Chandler, R. F. D. 1, Des Moines, Iowa.

—On this page Mrs. Walter Hoar, of Kent, Iowa, announces that she has eggs for sale from Single Comb White Leghorns and Single Comb Buff Orpingtons. Writing concerning her flocks the lady says: "I have been a breeder of Orpingtons for five years and find them to be the best winter layers I have ever raised. My White Leghorns are of the Wyocoff strain, snow white, fine layers, strong, healthy and vigorous birds. Eggs from these hens are hatching fine. I have over 500 young chicks from three to six weeks old, and two incubators soon to hatch." The prices named in her advertisement are quite reasonable.

—Mr. Charles J. Mackey, breeder of Single Comb White Leghorns, makes a new announcement to our readers on page 17. Mr. Mackey also handles strawberry plants and reports having secured liberal returns from his advertisement in The Homestead. For the remainder of the egg season Mr. Mackey has reduced his prices from \$2 to \$1.50 on eggs from pen No. 1; from \$1.50 to \$1 on eggs from pens Nos. 2, 3 and 4. In lots of 100, eggs from pens Nos. 2, 3 and 4 will be sold at \$4, and including fifteen eggs from pen No. 1, at \$5. For free circular giving full de-

tails of breeding and other information, write to Mr. Charles J. Mackey, West Liberty, Iowa.

—Mr. O. M. Healy, of Bedford, Iowa, who breeds Silver Wyandotte chickens, has made reduced rates on eggs for hatching during the remainder of the season. The prices named in his advertisement on page 17 are fifteen eggs for \$1, forty-five for \$2.50, or 100 for \$5. The prices are remarkably low considering the fact that the eggs are from fowls of strictly high-class character.

Podendorf's White Wyandottes.

Special prices on White Wyandotte eggs are offered by Mr. A. J. Podendorf, Logan, Iowa, for the next thirty days. He is offering fifteen at \$1.50, thirty for \$2.25, fifty for \$3 and 100 for \$6. If you want some good White Wyandotte eggs just send an order at once to Mr. Podendorf and you can depend on getting something good.

Special Prices on Bradley-Bred Eggs.

On this page of this week's Homestead will be found a change of copy for Mrs. L. C. Reese, of Prescott, Iowa, who has one of the best flocks of Bradley-bred Plymouth Rocks in the state. All of her pens are strongly Bradley bred, one pen being pure, both hens and cockerels. Two of these pens are cockerel mating and the other pen is a pullet mating, so that intending buyers can easily secure what they want. Mrs. Reese has devoted her energies to the production of high-class Plymouth Rocks and those of our readers who really want something choice should send her an order at once for eggs. She is making special prices on eggs for the next thirty days. Mention The Homestead when writing her.

The Missouri Auction School, August 1, 1910.

The Missouri Auction School, of Trenton, Mo., has, under the capable management of its president, Col. W. B. Carpenter, of Trenton, Mo., forged to the front until today it is recognized as one of America's foremost schools. The last term of school in January, found 121 students in attendance. Colonel Carpenter has every arrangement made for the most complete course to be had in auctioneering. He selects from America's leading auctioneers, instructors and lecturers. During each week of the term students have the advantage of hearing the talks and advice from men who are at the top of the profession. Colonel Carpenter is this season making more extensive preparations along this line than ever before and the August term will be far in advance of any yet held in this respect. The practice of making actual sales is such an important feature that Colonel Carpenter will this year arrange for more extensive work along this line. The term of four weeks opens on August 1st and those who contemplate taking a course in auctioneering should give the Missouri Auction School their consideration, as it is the largest of the kind in the world. Graduates are the most liberal supporters of the merits of the school and each year many new students come to the Missouri Auction School through the advice of those who have taken the course. Colonel Carpenter has also put on a correspondence course for those who cannot attend the school and many such have found this a very satisfactory course. See page 27 for advertisement of the Missouri Auction School and write Colonel Carpenter for more detailed information. Also kindly mention this paper when doing so.

The Get of John's Ohio Chief.

A Homestead representative called on Mr. D. B. Johnson, of Mooresville, Ind., recently and found the get of John's Ohio Chief and Top Col. looking well. Mr. Johnson has 165 spring pigs, mostly by his two great sires, and they are as nice a lot as it has been our pleasure to look at for some time. John's Ohio Chief has become famous as a sire of good stuff. Top Col. by King of Cols., dam by Orion Chief, is a hog of strictly show-yard type and if he had been fitted he would have made them all step some. His pigs out of John's Ohio Chief sows are first class. Other litters are by Prince of Cols. and Duke of Cols., one of the very best Col. boars the writer ever saw. The dams of these pigs are by Proud Advance, Prince of Cols., Tippy Col. King of Cols., Orion Chief, High Chief, B. & C's Col. and Prince Malcom. Now if this breeding is not first class and up to date we don't know. A bunch of thirty fall gilts by John's Ohio Chief are hard to beat, and don't forget there are show gilts in this lot. Mr. Johnson has nothing to sell at present, as all this good stuff will go in his public sale on August 10, 1910. The Homestead will keep its readers posted in regard to the offering later on. It is an offering breeders of high-class Durocs can't afford to overlook. See date in date claim column.

Guernsey Sire For Sale.

Mr. Ralph Tratt, of Whitewater, Wis., advises us that he is offering his herd bull, Bonnilillus, for sale. He bred Bonnilillus and his sire, Casterillus, and consequently has many animals in his herd which are related to the bull. It is for this reason that he is offering to sell this very choice animal. His dam, Bonnie Florine's 1st, was well known for her accomplishments and her record in the Advanced Register. Bonnilillus has one full sister that made 350 pounds of fat as a two-year-old and seven sisters that have made more than the requirements for entry into the Advanced Register. If you are in search of an aged bull, capable of doing your herd much good, do not fail to write Mr. Tratt.

WYANDOTTES.

White Wyandotte Eggs
Balance of season, 75c. for 15; \$4 for 100.
Thirty choice White Wyandotte hens, \$1 each.
GEO. W. LIVINGSTON, MONROE, IA.

WHITE WYANDOTTE EGGS
FROM stay-white kind. Our birds are absolutely free from brass; good eyes and comb; very large, good shape; best of laying strain; eggs, \$1.50 per 15; \$2.25 per 30; \$6 per 100. Guarantee 75% to hatch or will replace at 1/2 price. A. J. Podendorf, Logan, Ia.

CHALKY WYANDOTTES
We pay express. Circular free. CEDAR LAWN POULTRY AND STOCK FARM, Fairfield, Neb.

WHITE WYANDOTTE EGGS
FROM best matings we ever owned, at \$1.50 per 15 and \$2.75 per 30. Satisfaction guaranteed. W. S. Gregory, Keota, Ia. "Roselawn Farm," Route 2.

WHITE WYANDOTTES
Have won 13 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank, J. M. Erichson, Slater, Ia.

WYANDOTTES
White, Buff, Golden, S. Laced eggs, 15, \$1.50; 30, \$2.50; 50, \$3.50; 100, \$6. A. L. Anderson, Indianola, Iowa.

SILVER WYANDOTTES
Eggs, 15 for \$1; 40 for \$2; 100 for \$4. Twenty-three years a breeder. O. M. Henly, Bedford, Iowa.

White Wyandottes Extra good birds, true to type farm range, bred from birds scoring 92 to 93%; satisfaction guaranteed. Eggs, \$1 per 15; \$2.50 for 50. Carl J. Hedberg, Boxholm, Ia.

DUSTON WHITE WYANDOTTE EGGS exclusively. \$1 per 15; \$4 per 100. Blocky stay, white kind. Address, Mrs. F. O. Elliott, Kent, Iowa.

Silver Laced Wyandotte eggs, \$1 per 15; \$4 per 100. Farm range. Satisfaction guaranteed. R. Palmatier & Son, Greene, Iowa.

For Sale S. L. Wyandotte eggs for hatching, \$4 per 100, or 65 cents per 15. Write to CHAS. W. FARIS, IOWA FALLS, IOWA.

Silver Laced Wyandotte eggs for sale, from good birds. Prices reasonable. Write for circulars. S. R. Young, Greenville, Iowa.

BUFF WYANDOTTE CATALOG FREE. Illinois state winners; eggs, \$1.50 and \$3 per 15. J. S. WATSON, VAIL, IOWA.

Buff Wyandottes Eggs \$1 per sitting; \$2.50 per 40; \$5, 100. Address MRS. GRANT DAVIDSON, Corwith, Iowa.

Silver Laced Wyandotte eggs for sale, from choice, pure-bred stock cheap remainder of season. Mrs. J. W. Lowe, Clarksville, Ia.

White Wyandotte Eggs At half price, from high-scoring stock. Mrs. W. F. Prather, R. 6, Atlantic, Iowa.

WHITE WYANDOTTES Exclusively. Farm range, Eggs, 20 for \$1; \$4 per 100. A. L. Surfin, Bristow, Iowa.

White Wyandottes Exclusively. Eggs from choice farm range stock, \$1 per 15; \$4 per 100. Mrs. W. O. Harris, R. 6, Muscatine, Iowa.

RHODE ISLAND REDS.

S. C. Rhode Island Reds
TOMPKINS' strain, America's finest, large, long-bodied, vigorous birds. Red to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$3 per 100. Circular free.
R. H. DE VAULT, BLOOMFIELD, IOWA.

REDS—BOTH COMBS—GREAT EGG RECORD
10 CENTS for color lesson, illustrated by feathers. How to mate for best results. Who are fake advertisers. Egg catalog free. Foundation stock from the best eastern and southern strains.
Mrs. F. W. McIntyre, R. 4, Red Oak, Iowa.

S. C. Rhode Island Reds
TOMPKINS STRAIN
Write for egg circular.
P. H. Thiel, Renwick, Humboldt Co., Iowa.

R. C. Rhode Island Reds
EXCLUSIVELY. Eggs for hatching from stock scoring 90 to 94%. Write for prices and show record. H. S. Fain, Emmetsburg, Iowa.

THOROUGHbred Rose Comb Rhode Island Red eggs. Strong, vigorous flock. Pen No. 1, headed by high-scoring cockerel, 15 eggs, \$1.25; 30 eggs, \$2.25. Pen No. 2, 100 eggs, \$4.50; 50 eggs, \$2.40. Miss E. C. Powers, Osage, Iowa.

"BIRDS THAT LAY AND PAY" R. C. R. I. Reds exclusively; pen 1, trap-nested, 15 eggs, \$2; pen 2, 15 eggs, \$1.50; incubator lots, \$6 per 100. Address MRS. CLIFF SAID, EMERSON, IOWA.

S. C. R. I. RED EGGS
From high-scoring stock. Write for egg circular. Address MAUDE TURCK, NEWTON, IOWA.

S. C. R. I. Red cockerels for sale; scored and unscored. Eggs for sale. Write for prices. Mrs. H. L. Alsop, Sylvia, Iowa.

R. C. R. I. Reds Cherry Red strain. Eggs from 5 pens; also utility yard. Scored cockerels for sale. Harry C. Blake, Maquoketa, Ia.

SINGLE COMB RHODE ISLAND REDS Pen, \$3; range, \$1 per 15 eggs. S. T. BUSSARD, BOX 143, ESSEX, IOWA.

POSE and Single Comb R. I. Reds; fine bred; high-scoring eggs, 15 for \$1, 50 for \$3, 100 for \$5. Good laying strains. Mrs. T. A. Gough, Bristow, Iowa.

S. C. R. I. Red Eggs \$1 for 15; \$5 for 100; fine bred; good laying strain. Address Mrs. Sophia Radew, Laurel, Iowa.

Rose Comb R. I. Red eggs for hatching. Special matings, \$1.50 for 15; general flock, 75c. for 15. A. A. Worthington, Media, Illinois.

S. C. Rhode Island Reds exclusively; free range, good layers; eggs, \$5 for 100, \$1 per sitting. Write me. Address C. K. Loveland, Janesville, Iowa.

ROSE COMB Rhode Island Reds. Eggs from selected layers, \$1.25 for 15; \$3 for 45; \$5 for 100. D. Rich, Mt. Pleasant, Iowa.

S. C. R. I. RED EGGS
75c per 15; \$4 per 100. I. C. Welch, Bedford, Iowa.

LEGHORNS.

"MONEY IN EGGS"
S. C. Brown Leghorns—My method and farm S. range has developed layers with vigor. My eggs produce layers. One-third fancier's price and better layers, \$1.50 per 30; \$3 per 60; \$4 per 100; \$6 per 200. Prompt shipment. J. E. McCarthy, Enfield, Ill.

ROSE COMB BROWN LEGHORNS
EXCLUSIVELY. 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1; 50, \$3; 100, \$5; 200, \$9.
R. R. STEWART, R. 2, Charles City, Iowa.

ROSE COMB BROWN LEGHORNS EXCLUSIVELY
EGGS for hatching, \$1.25 for single sitting of 15 eggs; 2 or more sittings, \$1 each; 50 eggs, \$3; 100 eggs, \$5; 200 eggs for \$9. T. A. Davenport, Belmond, Ia.

High Quality Fertile Eggs for Breeders
Spring Valley Dairy and Egg Farm.
Chas. G. Jackson, Prescott, Iowa, specialty breeder world's leading egg strain thoroughbred R. and S. C. White Leghorns. Satisfaction guaranteed.

Rose Comb Brown Leghorns Bred 17 years for quality and eggs. None better regardless of price. 20 eggs \$1; 50, \$2.50; 100, \$4; 200, \$7. Address ELLA THARP, MT. STERLING, IOWA.

SINGLE COMB Brown Leghorn eggs, from 75 high-scoring hens mated with six fine five-spiked cockerels. Farm range, 15 for 75c; \$3 per 100. Satisfaction guaranteed. Address EDWARD DOOLEY, SELMA, IOWA.

Single Comb White Leghorns
BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketcham, Box 300, Booneville, Ind.

S. C. Brown Leghorns Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

R. C. B. Leghorn eggs for hatching from farm range; won 9 ribbons and 1 silver cup at Ames shows. Eggs, \$1 per 15; \$2.50 per 50; \$4 per 100. E. A. Taylor, Route 1, Boone, Iowa.

Rose Comb Brown Leghorns exclusively. Eggs for hatching, \$3.50, 100. Also Rouen duck eggs. Write F. Bowman, R. 6, Eldora, Ia.

S. C. B. Leghorn eggs for hatching, 75c. per 15; at reduced rates on incubator lots. FRED D. FOUSER, Benconsfield, Ia.

S. C. W. LEGHORNS The bred-to-lay strain. Pen scoring 94. 15 eggs \$1. Farm flock \$3.50, 100. Geo. Gaul, Tipton, Ia.

Single Comb Brown Leghorn eggs from birds scoring 90 to 95; 75c. for 15; \$3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

Single Comb White Leghorns
Eggs, \$1 per 20. M. E. Page, Madrid, Iowa.

Rose Comb Brown Leghorn Eggs at 75c. per 15 or \$3.50 per 100. Mrs. John Roskamp, Kanawha, Iowa.

Rose Comb White Leghorn eggs for sale; 25 for \$1.50 or \$4 per 100. Choice stock. Joseph Kappes, Jr., Box 42, Ashton, Iowa.

Very Choice Eggs for hatching; Rose Comb B. Leghorns; farm range; 50 eggs, \$2.50; 100, \$4. Mrs. Nelson Hyde, Manson, Iowa.

Eggs for Sale From my pure-bred Rose Comb Brown Leghorns, \$3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

EGGS From high-scoring S. C. W. Leghorns; choice exhibition matings; also W. Cochins bantams. Circular free. C. H. Drake, Hazleton, Ia.

S. C. Brown Leghorns Pure stock; eggs, \$1 per 15; \$1.50 per 30; \$4 per 100. Address Mrs. A. Goode, Russell, Iowa.

R. C. W. L. Elephant strain; Seattle, 1st; Ia. State, 2 1sts, 3 2ds, state cup. Range eggs, 6 1/2c; pen 16 1/2c. Rogers' Ranch, Pleasanton, Ia.

SINGLE COMB WHITE LEGHORNS. Eggs, 15 for \$1.25, 50 for \$100. S. C. Rhode Island Red eggs, 15 for \$1.50. Star Poultry Farm, Eddyville, Ia.

ROSE COMB BROWN LEGHORN EGGS At 50c per 15 or \$3 per 100; PLOWMAN BROS., Douds Leando, Iowa.

S. C. B. Leghorn eggs, pure bred, farm range; \$3.25 per 100; Pekin ducks, 75c. for 13. MRS. H. C. LAMBERT, ANTHON, IOWA.

ROSE COMB BROWN LEGHORN EGGS 26, \$1; price on lots. Mrs. L. Mather, Clarksville, Ia.

S. C. White Leghorn Eggs At \$1 per sitting \$2; \$4 per 100. Address JOHN C. MILLER, HARLAN, IA.

S. C. W. Leghorn Eggs Now \$1.50 and \$1 for 15; \$4, 100. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

ORPINGTONS.

ORPINGTONS. S. C. Buff. A fine stock. Farm raised. Eggs 15, \$1.50; 30, \$2.00; 50, \$3.00; 100 \$5. Address, Dan McCarty, Wintthrop, Iowa.

Buff Orpington Eggs from scored pens. Eggs from a fine pen of Houdans, Write me. Mrs. Chas. Gutches, Floyd, Iowa.

S. C. Buff Orpingtons Eggs for hatching; \$1.50, 15; \$7, 100. Fertile eggs guaranteed. Frank Rafoth, Earlville, Iowa.

S. C. BUFF ORPINGTONS Good shape, size or color; free range eggs, \$4 per 100; 75c. per 15. Address O. J. Early, Bristow, Ia.

EGGS Buff Orpington, \$3 per 15; state show winners, Cook's best strain and others. Catalog free. Alfafadell Poultry Co., Box 429, Farnam, Neb.

S. C. Buff Orpington eggs for sale. Flock headed by prize-winning cockerel. \$1.25 for 15; \$5 per 100. Mrs. Thos. McManus, Lenox, Iowa.

Buff Orpington Eggs from prize-winning birds, \$1.50 to \$3 per 15; also orders booked for baby chicks, Mrs. O. A. Maco, Bedford, Ia.

ORPINGTONS (Buff). Greatest winter-laying hens in the world. Eggs for sale. Free catalog. Prewitt, R. 5, Osawa, Iowa.

PLYMOUTH ROCKS.

Hawkins--Bradley--Thompson Barred Plymouth Rocks

THE extra eggs we send with each order may mean 500% profit on your investment and pay for your order many times over. Our yards represent all leading strains and direct descendants of leading prize winners. 18 eggs, \$1; 40, \$2; 100, \$4.50. A fair hatch and safe delivery guaranteed. Address H. C. Saunders & Son, Montezuma, Iowa. Route 1, Box 6. Interior and long distance 'phones.

EVERGREENLAWN FARM M. Hummel, Prop. Monroe, Iowa.

EGGS—EGGS—EGGS—FOR HATCHING
BREEDER of Barred P. Rocks exclusively for 27 years. Yards headed by cocks and cockerels scoring 92 points; first prize winners weighing 11 to 13 lbs.; hens and pullets weighing 8 to 11 lbs., with that deep strain blue barring. Eggs, \$1.50 per 15; \$2.50 per 30. Prompt shipment; eggs guaranteed fertile.

219-EGG STRAIN BARRED P. ROCKS
EGGS for hatching balance of season. Where taken from all pens, 15 for \$1.25; 30 for \$2; 50 for \$2.75 and \$4 per 100. Special mating, 15 for \$2; 30 for \$3; 50 for \$5; \$8 per 100. Don't make a mistake, but send to W. A. Hartman, Box 242, Winterset, Ia.

Barred Plymouth Rock Eggs
FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weigh 10 to 12 lbs.; Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guarantee good hatch and safe delivery. Catalog free.
S. V. LATCHAM, MONTEZUMA, IOWA.

CUT PRICES ON EGGS AFTER MAY 15th
BRADLEY strains from high scoring males and females. Pen of pullet mating, pen B. cockerel mating. Price now \$2, 15; \$3.75, 30; \$5.75, 50 eggs. P. B. pen pure Bradleys, \$3, 15; \$5.50, 30. All three pens are strong in Bradley blood and each headed by a Bradley cockerel. Mrs. L. C. Reese, Prescott, Iowa.

B. P. ROCK Eggs for sale from extra large-boned, nicely-marked stock; yards headed by cocks and cockerels scoring 90 to 92%; weighing 11 to 13 lbs. In five showings, including Central Iowa Show, 1909, Russell, Judge, we won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths. 15 eggs, \$1.50; 30, \$2.50; guaranteed fertile. J. W. Wagner, Monroe, Ia.

BARRED ROCK EGGS
From winners. Heavy layers from now on. Reduced prices, \$1 to \$2.50 for 15 eggs; \$5 per 100. All special-mated pens from America's best strains. Satisfaction in hatch, quality and results assured. Send for free handsome new catalog today. J. H. Chandler, R. 1, Des Moines, Ia.

Barred P. Rock Eggs from Blake's improved egg-laying strain. Write for prices and my secret for raising better layers. GEO. F. BLAKE, MAQUOKETA, IOWA.

GRAY'S Barred Plymouth Rock Eggs for sale from 50c. to \$5.00 per sitting of 15 eggs. Incubator eggs \$3.00 per 100. Write for my free egg circular. J. H. Gray, Wellman, Iowa.

BUFF ROCK EGGS
From a strain of fine winter layers, \$1.50 per 15; \$4.50 per 50; \$5 per 100. L. L. Woods, Grinnell, Iowa.

Eggs B. Rock, \$1 per 15; \$5 per 100. Geese eggs 25c., etc. Also some geese yet or sale, both sexes. Letters from satisfied customers, not one complaint. MRS. J. COCKERTON, Whiting, Iowa.

Buff Rocks The ideal farmer's fowl—winners highest awards Iowa State and other leading shows this season. Stock and eggs for sale. C. & C. T. VAN LINT, Pella, Iowa.

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EXCLUSIVELY—Barred Plymouth Rock eggs from healthy, large stock. \$1 per 15, \$2.50 per 50, \$4 per 100. Address S. S. Krebill, Donnellson, Ia.

BUFF Rock Eggs for sale; \$1 per 15; \$4.00 per 100. My birds are large with good shape and color, farm raised. Mrs. J. C. Anderson, Oskaloosa, Iowa.

BARRED P. Rocks exclusively. Eggs from large-boned, good-shaped, well-barred birds, \$1.25, 15; \$2.25, 30; \$3, 50; \$5, 100. Arthur T. White, Emerson, Ia.

Buff Plymouth Rock Eggs for hatching, at \$1 per sitting or \$5 per 100. Address O. N. WOODY, Route 3, NEWTON, IOWA.

BUFF ROCK EGGS For hatching, \$1 per 15; \$5 per 100. G. A. Holland, Rockford, Iowa.

EGGS From White P. Rocks, Fishel strain; \$1 per 15; \$1.50 per 30; \$4 per 100. Hens, \$1 each. Mrs. E. C. Turner, Route 1, Griswold, Ia.

WHITE Plymouth Rock eggs, \$1 per 15; \$2.50 per 50; \$4 per 100. Will sell a few hens at \$1 each. Address Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

B. P. ROCKS only. Large boned, well bar., good layers, high scoring, prize win. thrifty birds, fair deal. Eggs, \$3, \$1.25; 100, \$3. J. M. Reeder, Earlville, Ia.

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My Black Langshans Have won 59 regular and special premiums, including three silver cups during the past show season, and have laid during the coldest weather. Eggs, \$1, 15; \$5, 100. Margaret C. Daly, R. 4, Anamosa, Iowa.

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BLACK LANGSHAN Eggs for sale from large thrifty birds. Farm range. \$1.00 per 15; \$4.00 per 100. Address, J. H. Rayl, Alton, Iowa.

Prize-Winning B. Langshans exclusively, scoring to 91% at Dubuque by Lambert. Eggs, \$13, 85c; 26, \$1.50; 100, \$14.50. W. W. Baskerville, Earlville, Ia.

Black Langshans Bred exclusively; farm range; prize winners. Eggs, \$1 per 15; \$4 per 100. F. S. Thompson, Algona, Iowa.

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MISCELLANEOUS.

BARRED PLYMOUTH ROCKS
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E. H. Bodley, Box 29, Newton, Iowa.

Light Brahma Eggs
FIFTEEN for \$1; 45 for \$2.50; 100 for \$5. I guarantee a fair hatch or send another order at half price. I also breed Shetland ponies. Some young colts for sale. Frank P. Healy, Bedford, Iowa.

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EGGS for hatching. Eggs from pens 1 and 2, each breed, \$2 per 15; pens 3 and 4, \$1.50 per 15. All grand layers, from high-scoring, carefully-selected stock. Write for circular. Mrs. Jennie P. Irvin, Montezuma, Iowa.

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S. C. R. I. Reds. Eggs from two selected pens. S. mated for exhibition quality, and heavy winter layers. Eggs from flock on free range. Have some extra quality W. Orpingtons and S. C. W. Leghorn eggs. Mating list free. Dr. F. D. Miner, Hazleton, Ia.

White Holland Turkeys B. P. Rocks, Pekin ducks; extra large, high-scoring prize winners. Ten turkey eggs, \$3; fifteen Barred Rock, \$1.50, from laying strain; ten duck, \$1.50. Address Fred Post, Moulton, Iowa.

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EGGS From select yards of Single Comb Brown Leghorns and Houdans; 15, \$1.50; range flock Leghorns, 30, \$1; 100, \$3; Indian Runner ducks, 13, \$1; 100, \$6. E. A. Kauffman, Lockridge, Iowa.

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Eggs for Hatching From S. C. R. I. Reds. Special attention given to the laying as well as exhibition qualities. Also three grand matings of B. P. Rocks. C. H. Drake, Hazleton, Iowa.

EGGS S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility results and highest fancy attainment. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

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S. C. R. I. Reds and S. C. Buff Orpington eggs, \$1 per 15; \$2.50 per 50. Indian Runner duck eggs, \$1.50 per 15. Address H. C. Newbury, Bristow, Iowa.

EGGS for hatching from leading varieties of chickens, ducks, geese, turkeys. Write for catalogs. Ervin & J. W. Trettn, Grafton, Iowa.

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Silver Laced Wyandotte eggs, \$1 per 15; \$5 per 100. Buff turkey eggs, \$3.50 for 9. Address G. H. BERGE, MT. VERNON, IA.

White Wyandotte And S. C. Buff Orpington eggs for hatching; \$1 sitting or \$5 per 100. Mrs. J. E. Le Gassick, R. 2, Earlville, Ia.

EGGS Mammoth Pekin. W. Wyandotte; also Wyandotte cks.; scored stock; sure to please. E. S. Dyer, Bellevue, Iowa.

Barred P. Rock and Single Comb Brown Leghorn eggs; one sitting, \$1; two sittings, \$1.75; 50 eggs, \$2.25; 100 eggs, \$2.75. J. A. Penn, Alta, Ia.

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kills and maims more human beings, destroys more property and stock than all cyclones, tornadoes and floods combined. It causes 75 per cent of all fire losses according to official record.



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WITH THE EDITOR.

During the recent gathering of farmers at St. Louis a number of interesting topics were discussed. Among the speeches was one of moment to the Home Department because it dealt with home problems as they affect a movement of national importance.

One of the gravest problems which confronts the old world, has confronted it for a century, is the exodus of the farming population from the country. The same problem has been attracting attention in America for the past few years, and especially within the past few months, since so much attention is being given to the increased cost of living.

James Hill, the great railway magnate, has told us in so many words that too few farmers and unskilled farming is the secret of much of the trouble. The latter phase of the subject is not the one to be considered here today—although its importance is at least equal to the former.

Why is it that there are not more farmers? A number of reasons might easily be given, but the one given by the man addressing the convention at St. Louis covers a large part of the field, and this is what he said:

Keep the women and girls on the farm and the men and boys will remain. Make the home cheerful and attractive for the women, and there is no fear but they will make the farm so attractive to the men that they will find more pleasure in their own environment, and in the association with their own kind, than they will in a big city.

Where there is unrest and unhappiness among the women of the farm, who are its very life and mainstay—because of the incessant, monotonous, dreary drudgery of the life they lead, it is small wonder that the boys and young men, who are not tied down by circumstances as are their female relatives, take the first opportunity to break away to the cities.

The speaker knew that some of his hearers would resent his referring to the life of the farm woman as monotonous and dreary and he went on to say that rural mail delivery, telephones, trolley service and such modern improvements had done much to improve farm conditions in the more closely-settled parts of the country, but that even with these the life of the majority of women on the farm was harder and lacked the variety and social diversion of women in the city. In proof of this statement he referred to the fact that the prosperous farmer shows a decided disposition to forsake the farm, that he rents it, moves to the nearest big town or city and lives on his income or engages in some other business.

After referring to this he said: "Listen! Prosperity alone will not keep the old or young woman or the old or young man on the farm, nor will the prospect of greater prosperity lure them back from the cities. We must devise a means of making their social existence on the farm far more alluring than it is at present."

It seems to me the speaker expressed a great truth right there. I am of those who believe that woman on the farm has not yet come into her own, as has her husband and son, in the matter of, modern conveniences, but more important even than these, except as they give leisure for it, is larger opportunity for social intercourse.

It is said, and truly, that man is a gregarious creature. It is even more true that woman craves the society of her kind. But the farm woman frequently gets very little of it—much less than does her husband, who frequently sees other men while he is working in the fields, goes to town twice or three times for her once, and then often objects to taking her to church.

In pioneer days there was a succession of barn-raising, thrashings, and "bees" of one kind or another even in sparsely-settled communities, and the "literary" flourishes as it does not at present. Social life was really more vigorous than it is now in many cases.

And people though they had less and worked harder, if anything, were more contented.

The providing of social life is a problem. Many factors enter into it. It has to do with so many things. One thought it seems to me we might well all consider in this home circle. It is that in this matter the most important factor is the farmer and his family. It is not so much what others may do for them as what they do for themselves that affects this matter.

Fathers and mothers who are keen for the adding of acre to acre are to blame for lack of social life. They drive themselves and their families so that there is no time for anything but work. Fathers and mothers who forget that they were once young are to blame. They discourage their sons and daughters in their natural and perfectly legitimate desire for the pleasures of youth. The man who refuses to permit the "women folks" to have a horse or the use of a horse is to blame. The woman who permits herself to be a slave when by systematic effort to get her work out of the way she might have some leisure in which to see her neighbors and friends is to blame. The young people who sit by and expect others to provide entertainment for them are to blame.

The thing is for everyone concerned to do his or her part. One vigorous person can, by taking the initiative, sometimes change a whole community. If your neighborhood is dull, see if you cannot change it. Propose things. Get people visiting. Invite your neighbors in and suggest that all take turns. One thing leads to another. Only begin.

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY.

Hope for the best, get ready for the worst and take whatever Providence sends.

Most of the shades of life are produced by standing in our own sunshine. —Emerson.

It is only in the larger and better life that there is enduring blessedness.

GIVE THEM THE FLOWERS NOW.

Closed eyes can't see the white roses, Cold hands can't hold them, you know;

Breath that is stilled cannot gather The odors that sweet from them blow.

Death, with a peace beyond dreaming, Its children of Earth doth endow; Life is the time we can help them, So give them the flowers now.

Here are the struggles and striving, Here are the cares and tears; Now is the time to be smoothing The frowns and the furrows and fears.

What to closed eyes are kind sayings? What to hushed heart is deep vow? Naught can avail after parting, So give them the flowers now.

Just a kind word or a greeting, Just a warm grasp or a smile— These are the flowers that will lighten The burdens of many a mile. After the journey is over, What is the use of them, how Can they carry, who must be carried So give them the flowers now.

Flooms from the happy heart's garden, Plucked in the spirit of love; Blooms that are earthly reflections Of flowers that blossom above, Words cannot tell what a measure Of blessing such gifts will allow To dwell in the lives of the many, Oh, give them the flowers now.

—Leigh M. Hodges.

CHILDISH PRATTLE.

Mama—You're very fond of your dolly, aren't you, dear?

Little Ethel—Yes. She's nicer than anybody else I know.

Mama—Oh, no. She's not nicer than your mama.

Little Ethel—Yes, she is, 'cause she don't never 'sturb me when I'm talking. Nellie apologized for the action of her new baby sister by saying: "You see, she hasn't got any sense yet." Her mother objected to such an idea, and Nellie replied, "Oh, of course she's got sense, but it isn't working yet."

WHEN TEA IS HARMFUL.

Tea is responsible for many ills, especially among women. While it is the simplest matter in the world to make tea properly, it is unhealthfully prepared more often than otherwise. Tea is absolutely unfit to drink when the brewing process has proceeded be-



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By the time you reach town and light you'll be hot and tired and your throat dry with dust and dirt. Hunt up a soda fountain and treat yourself to **A Glass or a Bottle of**

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Pierce Farm Weeklies,
DES MOINES, IOWA.



yond a certain point and tannin is liberated, but if care is taken the evils of moderate tea drinking may be reduced to a minimum.

To make tea properly and as nearly as can be hygienically, buy good tea, preferably black. Heat the receptacle in which the tea is to be made, with hot water, use one teaspoonful or less of tea to a pint of boiling water, allow the water to remain in contact with the leaves five minutes, then pour off and use at once. Never put the teapot directly in contact with intense heat.

The habit of giving tea and coffee to young children is little short of criminal.

HOUSEKEEPER'S HELPS.

When the knob of a teakettle cover, coffee pot or kettle lid falls off, many a burn can be prevented by using as a substitute a medium-sized cork, held in place by a slender screw driven from the under side of the lid.

When napkins or tablecloths become worn they may be utilized for bibs or soft towels for the baby. When made into bibs it is well to make them double.

A plain cloth dipped in hot water and then in a saucer of bran will clean white paint and not injure it. The bran acts like soap on the paint.

To remove mildew, wet the cloth in soft water and then rub on plenty of soap and salt, hang on the line in the sun and air for a day or two. This is an infallible recipe.

Old pieces of soap can be put into a small packing box which has been punctured with nail holes, and the box then thrown into the dishpan and used as an ordinary soap shaker.

Use common soda to clean the black off the backs of kettles and pans. Apply it with a moist cloth and a moderate amount of "elbow grease" and it will quickly clean and brighten them, and keep them like new if used regularly.

AMONG OURSELVES.

Mr. Eugene Secor comes with a prose offering this time. He is sure of a cordial hearing Among Ourselves, whatever he brings us, and the matter of giving the farm a name is one we may well consider:

Anent the naming of the farm home, I note what the editor says about the increased interest in caring for it, and in trying to make it true to the ideal in mind when the name was chosen. Like the editor of this paper, I believe that a farm named well will be a better farm for the naming. It is a good deal like joining a church. Anyone who has the least self-respect or the smallest bump of approbateness will be a better person afterward. It will keep him from many a foolish act, because he will say, "What will people think if I do that?" The same mental process will go on after one names the spot one calls home. For instance, if it is named "The Rest," one would be ashamed to make slavish toil the only aim and ambition. There would naturally follow an effort to make the surroundings comport with the name. The outside plantings and the inside decorations and furnishings would be suggested by the name, and all the time that little preacher on the corner of the stationery would admonish, "Don't make a slave of yourself. Don't worry overmuch. There is a time for work and a time to cease from labor, a time for recreation and a time for reflection." Don't you think that would be a beautiful change from the too practical work and worry, rush and wrangle of the life of too many of us? A word personal. When we first thought of naming our suburban home (we live just outside of Forest City), I wrote down all the words and phrases I could think of that would be suitable and submitted them to a jury—the family. Among the dozen or more suggestions, I wrote "The Shelter." My wife said, "That's just the thing; you needn't try any more." So "The Shelter" it was, and is. It is not only true as to location and surroundings, but it means more than a windbreak. We aim and always have aimed to make it a refuge—not an asylum in the usual sense, but a home-like atmosphere for everybody, the girl who cooks our food as well as the visitor. Not long since a young woman who was living in the family of a prominent citizen came to our door about ten o'clock in the evening and wanted shelter. She had been to a free outdoor entertainment on the courthouse square, and when she went to her so-called home the doors were locked. She feared to arouse the man of the house. But she came quite a distance, and aroused us, who were likewise in bed, and she was a stranger to all of us, except a high-school girl who has lived with us for three years. That's what we mean by "The Shelter." In naming the farm I suggest the plan I tried. Think of all the suitable ones you can and submit them to the family. That will create interest and discussion, and if the outcome doesn't make every member take more interest in the home, I'll miss my guess. After a name is decided on, get some letterheads and envelopes printed and "magnify your calling."

How delightfully suggestive this talk of Mr. Secor's is. I do hope it will lead to the naming of many, many farms. Everyone cannot "live up" to a beautiful name, as it is evident the Secors do, but we can all find some name for our homes and gain by the dignity thus given them. If others who have named their place will come and tell us how they went about it and what decided them upon the name chosen we cannot fail to have a good time comparing experiences—and incidentally we will be doing a good thing in stimulating desire to give the farm home a name.

Right here I wish to slip in a communication accidentally overlooked last week. It is from a teacher, P. M. J.:

The teacher of a small community, as well as of a large one, needs social life. In the city it is supplied, but in the average community it must come from the people personally. I am a teacher in a small community of about 300 and long for more of a personal contact socially with the people. Every evening spent at some parent's home makes the teacher feel as though he or she is a member of a living body. If the parents could but know how we teachers enjoy these home gatherings, I think there would be more of them. The teacher feels and wants to be on equal terms with other people of different occupations. Invite them to your home and there will be more co-operative work between school and home. The home and school must work together to accomplish the most possible and this can only become effective by the teacher's visits to the different homes. Parents, do your duty and give the teacher an opportunity to become a friend and helper of yours by bringing him or her right into your home.

Why is it that parents are so indifferent about cultivating acquaintance with the teachers of their children? As a purely business proposition any investment in hospitality brings large returns in the added interest naturally taken by the teacher in pupils whose parents are kind. I have often thought about this matter, and I most earnestly hope for the good of all concerned that P. M. J.'s words will lead to many a teacher's heart being gladdened by larger opportunity for social life.

Mrs. Dunlap, Mo., has a word for Peggy D.:

To the young mother with the three little ones to whom the Job's comforters would advise to enjoy them now for now were her best days: In a measure, they are. Mothers do not realize, when they are busy with the innumerable steps and stitches, the 1,000 little cares and anxieties, how beautiful those years are. The world has not claimed them yet. From so many dangers that are bound to come in after years, mothers can shield them while young, but lead and train them carefully and prayerfully and lovingly and you can always enjoy them, but there is a certain amount of truth in the old couplet to the mother as well as to all others:

"But you must learn as I have learned, and all must learn at last; Our brightest earthly happiness lies buried in the past."

But as our lives go along in different paths, there is a certain calm and serene joy in later days to the mother who can regard her family with a kind of just pride.

"The just pride" of a mother whose family is a credit to her must be a very comfortable feeling and if the woman is philosophic it may comfort her when the circumstances of life make her no longer the first in the hearts of her offspring. The pity of it is that few mothers are philosophic and so they suffer much when sons and daughters go out into the world and form new ties—and say the things that worried Peggy D.

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defers to me as being the older and more experienced, and the head of the family, and asks my advice unless she is sure that she is doing the best thing. She seems to enjoy going out with me, talking and corresponding with me, better than with any of her girl friends. She is away from home, earning for herself, much of the time, and I have to check her generosity very often, or she would use most of her money in buying things for me which she thinks I would like. My boys, although married, are just as kind to me as ever, and their wives are like my own children and very thoughtful in all things for my pleasure. One of my boys said to me lately, "Mother, you know if we wanted anything, you would give it to us if possible. Give us credit for feeling the same about you, and do not hesitate to let us know if we can do anything for you." And he does not wait for me to tell him, if he can see anything to do for me. So you see that all children are not ungrateful and selfish in regard to their parents. In one way, however, it is true that you are having the best time with your children while they are small. Now, you are all-sufficient for their happiness, and they do not care for any other society or friendships. You can do everything for them and they do not feel the need of any other in any way. Soon this will be changed. They will take up their outside life, at school, and in the friendships that will bring them. They will grow up into dear friends and comrades, but others will have claims upon them, and it is but for a little time that you can feel that they are all yours, and yours only. You will love and be happy with them, but it will be a different thing.

That word, "If you deserve love and respect be sure that your child will love and respect you," may be a hard word to some, but if it lead to heart searching perhaps there will be a blessed aftermath to the suffering caused.

And now the promised reply to E. E. G., and before we have it let me bespeak for Daisy Field the earnest attention of every member of the circle:

Will you kindly give me space for a little talk to E. E. G.? My dear girl, will you listen to one who speaks because your letter appeals to her sympathies? She once stood exactly where you are standing, debating with herself the same question, at the same age. Now, after having reached middle age, looking back upon that time, she sees many things in clearer light than she could have seen them then, principally because those who had her religious training in hand stood directly between her and the light, crying "heresy" at every attempt of her mind to seek out the truth. Allow me to tell you first that I have been a church worker for years, and was at one time an active missionary in one of the largest cities of the United States. And today my wonder is that young people ever join some of our churches in the face of the fusillade of fire and brimstone hurled at them from the pulpit. What we need in our churches is less preaching of the gospel of death and destruction and more living of the gospel of life. I know all about your scruples. I know that you are sincere, for I have had the same experience, only in the natural enthusiasm of my disposition I went the limit of fanaticism. I refused to attend a village picnic; I looked upon an ice cream parlor as a snare set by the devil; I set myself above all my associates and really believed that I was living upon the mountain top of transfiguration. Then, out of the longing of my young heart for human companionship, just such a longing as speaks from your letter, there grew up the doubt that led me to the other extreme. I became a skeptic, so they called me because I asked questions, seeking the truth. Then an agnostic, because I said, "How am I to know?" Then an infidel, because I said, "If God is the monster you picture to me, I want nothing to do with him." Then, at last, through careful study of the Bible, through nights and days of soul-searching, facing the truth, I came by degrees to the foot of the cross, came to the simple faith of the lowly Nazarene. "He that believeth, and is baptized." These are his words, those the sole conditions. Follow his life. Did he not dine with publicans and sinners? Was not his first miracle performed to save the host from social disgrace and satisfy a social custom at a purely social gathering—a wedding feast? Does not your Bible tell you, "To the pure in heart all things are pure?" As to dancing, it is as natural to dance as it is to sing. You can sing soul-lifting songs. Shall you cease to sing because someone sings songs that are degrading in word and thought? Because some who dance go to excess must all be condemned? Does not your Bible say, "There is a time to dance?" If that time is not youth, then when is it? Is there not, within your knowledge, the case of a girl who went wrong who never danced? Are those young people you write of really immoral? Do they drink and carouse? Are their actions immodest, their conduct such as to inspire suspicion; or, are they not just a set of wide-awake, jolly youngsters having the time of their lives enjoying their youth in amusements of which you disapprove? Now, don't imagine that I am advising you to dance. If the rules of your church, or your parents, or your conscience, forbid dancing, then don't dance. But be a little more tolerant towards those who see no harm in it. Remember the parties some of these

church people who frown upon dances engage in. They circle around in a silly way and kiss to the sound of a silly song. Now, in common reason, is there any more wrong in dancing to good music, with an occasional hand-clasp, than in submitting to be kissed by any and every young man who sees fit to "choose" you in the game? Then, if you ever wish to exert any influence over your young friends, just go among them and be friendly and sociable and quietly and kindly ask to be excused from any participation in pleasures of which your church and your parents disapprove. But don't set yourself above them, and don't try to convert them by preaching to them. Let them see the Christ you worship through the gentle, loving spirit manifested in your daily life, rather than expect them to be led to Him by holding yourself aloof, like the Pharisee. Invite them to your own home, not to a prayer meeting. Make it just as jolly and home-like a party as you can possibly devise. Don't mention religion, but just see to it that they go away with this thought in their hearts: "What a fine time we had. We hardly missed the cards and the dancing. And what a lovely girl she is. There's something in religion like hers. She doesn't preach, but she makes you feel, some way, that she has something in her life you haven't got, and ought to have. There must be something in it." That is the kind of conviction which leads to conversion worth while.

As a young girl was leaving home to teach school in a district where she was an entire stranger her pastor said to her tenderly: "My child, never forget that your first work in that school district is not just to teach school, but by the winsomeness of your life service to win people to the Master whom you serve." This, I take it, is the thought of Daisy Field in what she says about the attitude one should take when situated as is E. E. G. Sometimes it is not good that we think much about our own souls. Let I be misunderstood let me put it another way. It is good for us to think less of our own soul than of those of our neighbors after once we have made the "great decision."

DRESSMAKING—NO. 77.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Florence skirts are always pretty and the one illustrated is among the latest to have appeared. It is exceedingly graceful and exceedingly smart and it is adapted both to plain and to fancy materials. Embroidered flouncing makes the one illustrated, but bordered materials include marisettes and voiles, silks and wools quite as well as the flouncing, while the skirt need not be confined to such, for its straight edges can be trimmed in any way to suit the fancy. Added to its other advantages the skirt is exceedingly simple and very easily made, involving little time and little labor. The gored



[6615 Two-Flounce Skirt, 22 to 30 Waist. With Seven-Gored Upper Portion. Especially Adapted to Embroidered and Bordered Materials.]

foundation means perfect smoothness over the hips as well as simplicity of adjustment.

The skirt consists of the upper portion and the two flounces. The upper portion is made in seven gores and the flounces are straight and gathered. The lower one is joined to the foundation, the upper is arranged over it.

The quantity of material required for the medium size is 5½ yards of flouncing 26 inches wide with 1½ yards of

plain material 27 for the upper portion; or 8½ yards 24 or 27, 6½ yards 32 or 5 yards 44 inches wide if plain material is used throughout.

The pattern 6615 is cut in sizes for a 22, 24, 26, 28 and 30-inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

Semi-princess dresses that are closed at the left of the front are exceedingly smart this season and this one is especially designed for the older girls and small women. The double sleeves are novel and effective, but the dress allows a choice of those illustrated or of the single short sleeves shown in the small view, so that the girls who like freedom for exercise and occasions of the sort can be satisfied as well as those who like full length sleeves. The plaited panels of the skirt are distinctly novel and provide satisfactory flare, while the fact that the dress is closed



[6613 Semi-Princess Dress, 14, 16 and 18 Years. With or Without Stock Collar, With Long or Short Sleeves.]

at the front and can be slipped on and off with ease is in itself an advantage. Collarless necks are always charming when becoming and the dress with collar omitted and trimmed with some simple banding, as indicated in the small view, would be pretty made from linen, lawn or batiste, from cotton poplin or any material of the sort. In the illustration one of the new French ginghams is piped with plain color, but there are a great many pretty inexpensive printed wash fabrics that are in every way appropriate for warm weather use, while for immediate wear the dress would be satisfactory made from extremely light-weight serge or anything of the sort. If liked, the puffed portions of the under sleeves could be of contrasting material.

The dress is made with waist and skirt. The waist consists of fronts and back and is laid in tucks that are stitched for full length. The skirt is cut in seven gores and the plaited panels are joined to the front and side gores. The short sleeves are made in sections that are overlapped. The long sleeves consist of plain and full portions. The belt joins the waist and skirt and the closing can be made invisibly or with buttons and buttonholes as liked.

The quantity of material required for the medium size (16 years) is 11½ yards 24 or 27, 7 yards 32 or 5 yards 44 inches wide.

The pattern 6613 is cut in sizes for girls of 14, 16 and 18 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

Two years ago the receiver for the First National Bank, of Topeka, Kan., sold a farm southwest of town, owned by the Devlin estate, for \$8,000. He may have thought he was doing pretty well for the creditors of the bank, but inside of a year it sold for \$12,500. And six months later it was transferred for \$19,000. Last week it sold for \$25,000.

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Among the pleasant fields of Holy Writ
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The International Sunday School Lesson

SECOND QUARTER.

Lesson VIII.—Matt. XIV., 1-12.

May 22, 1910

DEATH OF JOHN THE BAPTIST.

Extremes met in the fortress palace of Herod Antipas on the occasion of his birthday banquet. Nazareth abstemiousness kept vigil in the dungeon. Herodian wantonness blazed and reeled in the banquet-chamber. Self-oblivious devotion below is matched by an overweening ambition above. The forgiving spirit, ready to pray for despiteful users, is offset by a vindictive thirst for the blood of one whose very life was a rebuke to sinners. On the inky agate of the Herodian court the character of John Baptist stood out in high relief, a clear-cut cameo of snowy luster. If any Herod ever needed a post-graduate course in the art of luxury, this one had it. He received his finishing touches during his visit to Rome. At that capital of debauchery he contracted the incestuous and adulterous connection which called forth the Baptist's stern and constant "It is not lawful!" This banquet seems to have been, in part at least, a military affair. Antipas was toasting and feasting his officers. He was putting them in heart for the war into which his unnatural crime had plunged him. Their ivory couches rested upon tessellated floor of banquet-hall in the marble palace, within the impregnable fortress of Macherus. The tetrarch's couriers had brought in haste from every quarter the daintiest viands of fish, flesh and fowl, while wine filled golden goblets to their brim, and the air was scented with jet and spray of perfume. Herodias was in her bou-

doir. Ambition was her ruling vice. She had discarded her rightful husband, father of her beautiful daughter, because, forsooth, he had no title. She married one who already sustained the relation of uncle and brother-in-law to her, and in doing so displaced a loyal wife from her husband's side. At length Herodias had a title and numerous palaces and fawning courtiers; but she had also a Nemesis, whose imperious "It is not lawful," neither threat nor cajolery nor bribe could silence. Her strait was desperate. The uncompromising preacher of righteousness was making progress with her paramour. If he converted him, she would be discarded, and all lost. She had secured the Baptist's imprisonment. But locks and bars seemed no restraint to his subtle influence, while his dungeon-walls seemed to echo his "It is not lawful!" with even louder detonations. The desperate and wicked woman baited her hook with her daughter's modesty, and went angling in the pool of drunken revelry. When Antipas found himself caught, he lacked moral courage to snap the hook. He feared to vex Herodias, and had superstitious scruples about breaking his oath. He doubted the effect of his vacillation upon the courtiers and chiliarchs whom he was seeking by this very banquet to attach more closely to himself. On the other hand, he was apprehensive of the effect on the people of the murder of one who stood so high in their regard. Wretched man! This was the turning point in his

career. With the infamous choice of this hour he began the descent which terminated in disgrace, exile, death. A moment later, Salome, a paragon of voluptuous beauty, flushed with her lascivious dance, carries with an inhumanly steady hand a golden platter from the banquet-table, on which rests the head of the martyr. A choice dish that for Herodias! It was her share in the banquet.

The Teacher's Lantern.

A character in which there is no balance-wheel of principle is despicable. When such a one reaches a position of power it is public calamity. "As a roaring lion and a raging bear, so is a wicked ruler over the poor people." Some who would be lavish in their upbraiding of a social outcast are singularly mute before sin while it is shrined in wealth, luxury and power. John Baptist was not of that order. No station in life is so lofty as to lift its occupant above the reach of the pains and penalties of sin. They can pass even palace doors and fall with their full weight upon kings' hearts. It is a fearful thing to deliberately cherish hatred and revenge in the heart. It is the seed of murder, and is sure to bear its crimson fruit. For his oath's sake. A poor woman of my city said to me last winter that there came a day when they had not a scrap to put on the table. She put her shawl on, and went down to the corner saloon, and stated the fact to the saloon-keeper, reminding him, in addition, that her husband had spent a good deal of money at his bar. He professed to be sorry for her, but said he had promised not to aid anybody, and therefore could not help her. Surprising how tenacious some men are of their oaths and promises when it suits their convenience! That proverb has no weight with them, "A bad promise is better broken than kept." This was that Herod who, in mockery, clothed

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Jesus in royal robes and sent him back to Pilate. Out of the corrupt court of Herod Antipas, Manahem, his foster-brother, and Chusa, his steward, rose to discipleship with Jesus. Nothing prevented Herod himself from rising but his love of self and sin. "Whom I beheaded." No need of the Baptist now! Conscience performed the office

of ten thousand accusers. That the way of the transgressor is hard has never had more apt illustration than in the case of Herod and Herodias. The inordinately ambitious woman induced her husband to go to Rome and enter his claim to the title of king. But he lost even what he had, and both perished miserably in exile.

now. She crept up softly to the rich gentleman and laid her hand on his arm.

"Here it is," she said breathlessly, holding the paper in view.

"What?" cried the gentleman turning sharply around.

"Why, your money you lost," said Jane.

"My money? Impossible." He took his purse out of his pocket and began counting the money it held. Suddenly his face brightened. "I'll be bound! If it isn't ten dollars short."

"Well, here it is," said Jane, "you dropped it on the street and went away without it. I picked it up and meant to run home with it, but then I thought it did not really belong to me and I did not have any right to take it, so here it is now." And she handed the money to its owner.

"You are a very good girl," said the gentleman, putting his hand on Jane's curly head. He then took his purse and counted out the sum of twenty dollars, which he gave to Jane, saying, "This is your reward for being so honest a girl."

"Thank you," said Jane, happily.
Mabel Johnson.

Dearly Loves the Horses.

I am a girl, twelve years old, and go to school every day. I am in the ninth grade and my teacher's name is Mary Jansky. I have never written to the Young Folks Department, but am going to try and write on this subject. My papa owns a farm of 160 acres on which we live. We have a large house with eight large rooms and several small rooms. There is a creek running through our farm and on the east side of the creek is our house. There is also a large alfalfa pasture, two large corn fields and one small one, and the lots where the stock runs. My papa raises a great many hogs. The names of our horses are Nell, Pet, Dan, Bess, Topsy, Sally, Kate, and Prince, our little driving horse, and he is a very good saddle horse, too.

One thing I like about the farm is to have nice horses. I love horses and like to drive and ride them. I help mama in the house in the summer time more than in the winter, because I have to go to school then. I help papa in the field sometimes, but not very much. I like best to drive, ride and handle horses. I will now tell you

about our horses. Nell is a very fine driving and riding horse, but she is very nervous and mama and I do not drive her very much, but I am certainly tickled when I get to drive her once in a while, because she looks so nice when she is hitched to a buggy. She is a little sorrel and has the prettiest coat and she can certainly go fast. She is a pretty good rider, too. I haven't ridden her for a long time, but my brother, George, is twenty-three years old and he rides her. She is pretty frisky, but he can hold her, and I can't. Pet is a good, old, gentle, bay horse. She is Nell's mother and used to be a pretty horse, but is old now. Dan and Bess are colts and are the same size. They are our little team. Dan is bay and Bess is black. Topsy is a white horse and is Sally's mother. Sally is gray, and Bess and Dan are her colts. Kate is an old bay horse and I like her very much. She is nearly twenty-seven years old now. Papa had her when he and mama were married. She was a little colt then. Prince is our little driving horse that we bought a year ago last fall. He is a little bay and is gentle and not afraid of anything. I can ride or drive him and wouldn't part with him unless I could get one just like him.

We have a peach and apple orchard and some cherry trees. We have quite a large barn, one corn bin, two corn cribs and a buggy shed and several other barns and buildings for the stock, and a chicken coop. On the west side of the creek we have a large pasture, a nice meadow and another small pasture fenced off from the other. There are only four in our family now, although there were five. My only sister, who was very dear to me, died on the 14th of May last year. She was almost twenty years old and had graduated from the country schools and the high school. I have one brother and my papa and mama left now. One thing I have noticed, and that is that the girls and boys from the farm always look healthier than those from the city. They have more outdoor exercise and always look healthy except when they are sick. One thing I forgot to mention was our chickens. We have lots of them and I gathered three dozen eggs today.

Rosella Czapanskiy.

Ask your neighbor to subscribe for The Homestead.



THE YOUNG FOLKS

LIKES LAMBS BEST OF ALL.

I am a little boy, eight years of age. My papa raises horses, cows, sheep and hogs, but I believe I like helping care for the sheep and little lambs the best of all. I have a little ax and like chopping wood pretty well. I like to get in the hay mow and put down hay for the stock, but one day I stepped in a hole and down I went to the floor below. It did not hurt me any, but my, I was scared, and mama was, too, and you may know she doesn't allow me up there very much any more. I live about a half a mile from the Wyacanda river and think fishing fine sport, especially when I can land the biggest fish in the crowd. I live about a fourth of a mile from school and go every day except when I am sick, and I never have been tardy. I am in the third grade. We have five months of school in the fall and winter, and three in the summer.

Merlin Phares.

A Bright Pony.

I am a little girl, ten years old. I am a farmer's daughter and go to school a mile and a half away. There are twelve children in our school. My teacher's name is Grace Harris.

What I like best of farm work is to feed chickens, hunt the eggs and make beds and dust. I have two sisters, Louisa, six years old, and Alma, five years old. Louisa goes to school, but Alma does not. I am getting along fine in school and am in Cyr's fourth reader. I study reading, arithmetic,

physiology, language and spelling. We have one dog named Carlo. We have eight horses and four colts; the colts' names are Dolly, Bell, Topsy and Mollie. Bell, Topsy and Mollie are black and Dolly is a sorrel. If you ask Topsy to shake hands she will lift up her right fore foot. Frieda Kraft.

The Reward.

Jane's mother was very poor. They lived in a little hut in a village. Both Jane and Mrs. Brooks worked very hard to get their food and clothing. Jane was only ten years of age, and her father had died when she was but a very small child. One day when Jane was out looking for work, she saw a richly-dressed gentleman drop a piece of paper while counting out a sum of money which he handed to another man. Neither seemed to miss the paper, for they walked on down the street.

Quick as a wink Jane went to the place where the men had stood, and picked up the bit of paper. She held it up and saw it was a ten-dollar note. What luck! She ran as fast as she could toward home. Suddenly she stopped. What was the matter? Had she lost the bit of paper? Oh, no! She still held it in her hand.

"Taint right," she said, "no taint." She thought a moment, "Yes, I'll do it."

She then turned around and ran at double pace after the men who had unconsciously lost the precious bit of paper. Jane was close up to them

Just
a
plain
business
precaution

A
post card,
letter, phone
or wire will get
my new FREE
POWER BOOK to you
QUICK—and now's the time

Make them Write it in
the Contract!

I agree

to send you any Galloway Gasoline Engine shown in my new catalog, together with a legal, binding five-year guarantee with the privilege of thirty days' Free Trial Test. Place my engine side by side with any other gasoline engine in the world. Compare it—rated horse power—simplicity—durability—ease of starting—economy of fuel—or in any other way you wish to keep it or not. I don't prove the best engine you have ever seen anywhere, regardless of price—if it doesn't save you from 30 to 50 per cent—keep it, send it back and I will refund every cent you have paid out on it, including freight charges both ways. That's the way I deal all around or no sale.

Don't Be Fooled by the cheap quality talk of agents and dealers who go around footing their horn and incidentally pocketing from 30 to 50 per cent extra profits to pay for the noise.

Make them play fair—if they think they have an engine as good as the Galloway, ask them if they will sell on the same terms, under the same conditions that I do—but be sure and MAKE THEM WRITE IT IN THE CONTRACT.

Ask them to send you their engine on 30 days' trial. Tell them you are going to put it alongside of a Galloway and test it from every standpoint—the material, the workmanship, rated horse power, economy of fuel, simplicity, and above all, price. Tell them you are going to keep the one that makes good and return the other without cost to you. If they agree to this, you are pretty sure to get the best engine—but don't forget to MAKE THEM WRITE IT IN THE CONTRACT.

I wish that every man about to buy a gasoline engine would try the Galloway under these same conditions. I know what my engine is and what it will do, for it's made right here in Waterloo in my own big engine factories.

Never was better material or workmanship ever put on an engine. It is simple in construction and easy to operate, and I guarantee to save you from 30 to 50 per cent in cost.

Now, it's up to you to protect yourself, and I have shown you how. Be your own judge and don't decide on any engine until you have had the opportunity of testing it 30 days.

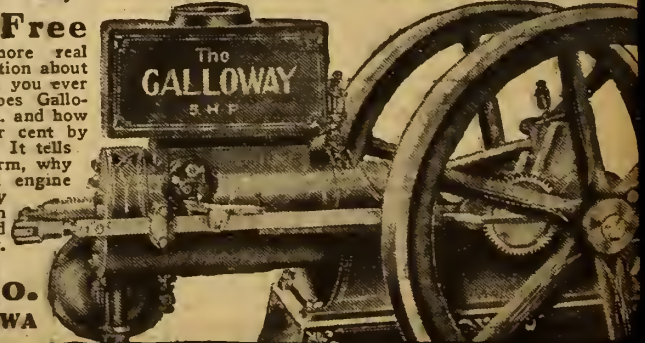
Get My New Free Catalog

Contains more real live information about gasoline engines than any book you ever saw. It illustrates and describes Galloway Engines from 2½ to 22 h. p. and how I save you from 30 to 50 per cent by selling direct from my own factory. It tells how to make more money on the farm, why the Galloway is the only successful engine made and sold DIRECT from factory to farm, and how you can get one on the most liberal selling plans ever heard of. Drop me a postal or letter today.

The Wm. Galloway Co.
101 Galloway Station WATERLOO, IOWA

\$119.50

FOR A GALLOWAY
5 H. P. Engine and
your money back if
not satisfied



LANDS AND HOMES FOR SALE

CROP PAYMENT FARMS!

YES, I still have some of those quarter sections in Minnesota and North Dakota that I can sell on crop payments. Write me about them. Address D. J. McMAHON, 213 Endicott Building, St. Paul, Minn.

Eastern Kansas

I HAVE for sale at owners' prices over 300 choice, improved farms in Lyon and Coffey counties, in the beautiful and fertile NEOSHO RIVER VALLEY. Write for new illustrated descriptive circular. Mention The Homestead when writing. Address ED. F. MILNER, HARTFORD, KANSAS.

Improved Kansas Farms

I OWN the following improved farms, all near Severy, Kan., that I will sell on a payment down and the balance on long time at low rate of interest: 80 acres at \$15 per acre, 160 acres at \$35 per acre and 320 acres at \$30 per acre. I am not a real estate dealer; simply own the land and want to sell it. If you are interested write or call and see the land. M. J. BIDWELL, Severy, Kansas.

HOMESEEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address The Allen Co. Investment Co., Longton, Kan.

Iowa Lands For Sale

in Howard county, \$50 to \$90 per acre. Large list on request. Address, SFAULDING & O'DONNELL, Elma, Iowa.

A Popular Iowa Auctioneer.

The engraving which appears here-with is a portrait of that popular live stock auctioneer, Col. J. L. McIlrath, of Grinnell, Iowa. The colonel has in a modest way so conducted his business that today he stands among the good live stock auctioneers of the state. A recent note from him advises us that from September 22d to the 1st of March he conducted 112 sales which he says is a record which he never expects to beat. The colonel has conducted, dur-



ing the past winter, a number of the most prominent hog and cattle sales in central Iowa. His work has met with the approbation not only of the parties making the sales, but also those in attendance. The Homestead is pleased to recommend him and to advise those who have not yet settled upon their dates to get into correspondence with him without delay. Address J. L. McIlrath, Grinnell, Iowa. See advertisement on page 27.

The announcement of the Grand Rapids Veterinary College appears on page 11. This college has recently made extensive additions to its equipment, improved its laboratories and otherwise added to its facilities for caring for students. A recent addition to the faculty is Dr. E. Burke, a veterinarian of note, who has for fourteen years been assistant principal in a leading English College. Particulars concerning this school may be had by writing to the Grand Rapids Veterinary College, Grand Rapids, Mich.

The Capital City Woolen Mills, of Des Moines, Iowa, advertise on page 6 that they want to buy wool and that they will pay the highest market prices. The Capital City Woolen Mills are well established, perfectly responsible and our readers may deal with them in absolute confidence. They remit promptly and solicit correspondence from wool buyers.

The Bates Investment Company, in an advertisement on this page, announce to our readers that they have for sale 270 acres of splendid Colorado fruit land. Reasonable prices and easy terms are quoted. These may be learned by writing to the Bates Investment Company, 251-254 Coronado Bldg., Denver, Colo.

SOUTH DAKOTA LAND in LYMAN COUNTY

The choicest of land; all kinds of grain raised; plenty of water. Prices range from \$15 to \$35 per acre. Write for Free Love-Letter Land & Loan Co.'s (Inc.) free price list, Kennebec, South Dakota.

Sully County, South Dakota

THE cheapest proven corn lands in the United States. Let us tell you all about it. Information and list free for the asking. Good water, good soil, good schools, good neighbors and no stone or gravel. New railroads now building. Splendid opportunities. CLAUDE GARNER & CO., BLUNT, S. DAKOTA.

BUY LANDS IN EASTERN LYMAN COUNTY

WHERE corn, alfalfa, cattle and hogs are the money makers and small grains cannot be beaten. Price, \$15 to \$35 per acre. Large list of improved and unimproved lands for sale on liberal terms. For price list or information, address THOS. F. MCGUIGAN, KENNEBEC, SOUTH DAKOTA.

Wheat and Flax Land in Montana

IN Dawson County; near railroads; plenty of rainfall; good water 12 to 30 feet; wheat yields 30 to 40 bu.; flax 20 bu. Every man who bought Dawson County land last year made money; sure to advance more. Send for our list now; \$15 to \$25 per acre. MILLER & JORDEN, GLENDEVE, MONTANA.

BUY A HOME IN SUNNY SOUTH DAKOTA

We have choice bargains in farms and ranches. Write us for further information. THE O'RIELLY LAND COMPANY, DRAPER, LYMAN COUNTY, SOUTH DAKOTA.

Buy a North Dakota Farm

AND MAKE 40% ON YOUR MONEY. Good, cheap land for sale in Williams County, N. D. Raised last season, 30 bu. wheat to acre and 60 bu. of oats. We pay \$1 per acre cash commission for anyone sending us buyers. Agents wanted. Write Fred Southard & Co., Williston, North Dakota.

SOUTH DAKOTA LAND

BUY land in the western part of South Dakota, on the east slope of the Black Hills, where you are west of the hot winds, and where it rains. Here we have a fine climate, good water, plenty of timber, good soil, good markets, and grow fine crops each season. For further information, write or call on THE WASTA LAND & LOAN COMPANY - - - WASTA, SOUTH DAKOTA.

APPLE IS KING

In COLORADO

THE LAND OF SUNSHINE

270 acres of the finest fruit land adjoining the Gold Medal Orchard. The fruit from this orchard took first prize at St. Louis Fair.

BARGAIN SALE--OR EASY TERMS

Part in bearing orchard, part in young orchard. Send for particulars.

BATES INVESTMENT COMPANY,

Suite 251-254 Coronado Building,

DENVER - - COLORADO.

CANADA LAND

I have about 45 ready-made farms at prairie prices. Rich soil, good water, prosperous district, good schools, churches. About 30 of these are within 2 to 5 miles from good markets. For further particulars see advertisement in issue of May 5th or write to Cook Bros., Arcola, Saskatchewan, or R. H. Cook, 533 Utica Bldg., Des Moines.

LET ME TELL YOU

ABOUT Southern Missouri where you can buy corn, wheat, clover and fruit lands for \$10 an acre to \$50; well improved that will make you big money from the crops and double in value within the next few years. We raise the crops and can skin the world on prices. Literature free.

J. E. HALL, Carthage, Missouri.

GALLATIN VALLEY MONTANA LANDS

WE have for sale a large list of splendid farms, improved and unimproved, irrigated and dry; close to church, school, town and railroad, in the oldest, most successful farm district in the Northwest. Climate good; no blizzards or cyclones. Ideal for small grains, sugar beets, potatoes, alfalfa, clover and timothy, apples and strawberries. Prices and terms reasonable. Literature sent on inquiry. H. S. Buell Land Co., Bozeman, Montana.

MUSSELSHELL VALLEY MONTANA

GOOD farming land in the Musselshell Valley that will yield 35 to 40 bu. of wheat, 50 to 75 bu. of oats per acre, without irrigation. Several tracts to select from; \$7.50 to \$25 per acre, 1/4 cash, balance easy terms at 6%. Ample rainfall for past 10 years to produce big crops. Write for list and full particulars. Irrigated land if desired. Address Friday & Jenizen, Bankers, Harlowton, Montana.

For Sale By Owner

ONE solid section wild land in Stevens County, Minnesota. Will be sold at a price and on terms that will be attractive. Address W. F. MYERS, 236 Endicott Building, St. Paul, Minnesota.

WESTERN CANADA

Prof. Shaw, Well-Known Agriculturist, Says: "I would sooner raise cattle in Western Canada than in the corn belt of the United States. Food is cheaper and climate better for the purpose. Your market will improve faster than your farmers will produce the supplies. Wheat can be grown up to the 60th parallel (800 miles north of the international boundary). Your vacant land will be taken at a rate beyond present conception. We have enough people in the United States alone who want homes to take up this land." Nearly 70,000 Americans will enter and make their homes in Western Canada this year. 1909 produced another large crop of wheat, oats and barley, in addition to which the cattle exports was an immense item. Cattle raising, dairying, mixed farming and grain growing in the provinces of Manitoba, Saskatchewan and Alberta. Adaptable soil, healthful climate, splendid schools and churches, and good railways. For settlers' rates, descriptive literature, "Last Best West," how to reach the country and other particulars, write to Sup't of Immigration, Ottawa, Can. or to the Canadian Government Agent W. V. Bennett, Bee Building, Omaha, Nebraska, or F. T. Holmes, 315 Jackson St. St. Paul, Minn. Use address nearest you. (5)

JUDITH BASIN

Montana Farms

in this rich valley produce more grain per acre than any other section of the West. Write today for our list, prices and full information. F. J. ROBINSON, Manager. FARMERS' LAND CO., LEWISTOWN, Montana

FOR SALE---50,000 ACRES

Western Florida Pine Land

in amounts to suit. Good farm land; no swamps; railroad. Timber worth double price asked. Easy terms. H. G. Noel, 304 N. 4th Street, St. Louis, Mo.

Good Ranch Proposition

1,120 ACRES Pierce County, Nebraska. Good crib and granary combined; sheds for 400 head of cattle; 2 wells, with windmills and tanks; 60 acres under cultivation; more can be cultivated; balance pasture and hay land; good grove around house and barn. Price, \$25 per acre on easy terms. Might take some trade. For particulars, address J. E. ARMSTRONG, YORK, NEBRASKA.

Come to Williston, N. D.

FINE soil; good water; wheat yields 25 bushels; other grains and vegetables in proportion. Land \$15 to \$25 per acre. One crop pays for the land. Write me today. Can prove this statement. Williston has 5,000 population and growing rapidly. Write me for information and list of lands. Better buy now. Land will never be any cheaper. Two new railroads building into Williston. Homeseekers' tickets all good for stop over at Williston. H. V. SMITH, WILLISTON, N. DAKOTA.

When writing to advertisers please mention this paper.

North Dakota LANDS!

We OWN and offer for sale the following lands in North Dakota:—

Improved Lands 25,000 acres in Cass, Stutsman and other counties. Prices \$35 to \$75 per acre.

Raw Lands 7,000 acres in Bowman county along the Milwaukee Road's new line; 3,000 acres in other counties. Prices from \$12.50 to \$35 per acre.

TERMS—One-third cash; balance in five equal annual instalments with interest at 6 per cent.

Descriptive literature free. Tell us what you want and how much cash you have to invest and we will make you an attractive offer.

WHEELOCK & WHEELOCK

Established 1897

25 Waldorf Block

FARGO - NORTH DAKOTA.

Back to the Soil

50,000 ACRES

In St. Louis and Carlton Counties MINNESOTA

NEAR fast growing cities of DULUTH and SUPERIOR. Splendid markets. Eighteen railroads. Soil fertile and well adapted to general farming, dairying and raising of garden truck. Price, \$8 to \$10 an acre. Easy terms. Lands are owned by this company, free of all incumbrances, and no reservations. Write for full particulars and information.

Boston & Duluth Farm Land Co.

No. 18 5th Ave. West, Duluth, Minn.

GOVERNMENT LAND

FREE IN ROUTT COUNTY COLORADO

To secure good farmers, we tell you how to locate 160 acres of fine government land in Routt County, on Moffat Road, (Denver Northwestern & Pacific Railway). Big crops, pure water, good soil, fine climate and markets. Fine openings for investments and business. We have no land to sell, it's absolutely free from the government. Law allows you to return home for 6 months after filing. Write for free book, map and full information that tells how to get this land free. Address W. F. JONES, General Traffic Manager, 704 Majestic Building, Denver, Colorado.

A Force Put By Owner

A HIGHLY improved farm of 363 acres in Thayer County, Nebraska, for \$65 per acre. Another of 240 acres in Nuckolls County, Nebraska; 85 acres in alfalfa; \$35 per acre. Ranch of 1,200 acres in Hayes County, Nebraska; fenced and fine grass land, with plenty of water; clay soil; at \$15. 325 acres in Dawson County, Nebraska; improved; 100 acres cultivated; \$35. All money makers.

G. A. Dennis, Box 622, Lincoln, Nebraska.

... BUY ...

South Dakota Land

KADOKA, STANLEY COUNTY.

RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gilt-edge farm mortgages for sale. For description, write F. E. Reidinger Land Agency, Kadoka, S. D.

CHEAP IOWA LANDS

WE have 297 acres of wild land in Osceola County, Iowa, to offer at \$50 an acre, three and a half miles from a good town. Fine, improved farms all around. One eighty is rough; the balance is good farm land. \$1,000 cash and easy terms on the balance at 5%. Here is a snap; won't last long.

J. G. Chrysler & Son, Lake Park, Ia.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Lyman Co. Lands

ASAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. HAGLER LAND CO., PRESHO, S. DAK.

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address BERT I. WELD, SLAYTON, MINNESOTA.

FOR SALE—Guaranteed first mortgage, 64, five years, \$2,600; South Dakota farm; appraised local banker, \$5,800. Jenks, 115 Broadway, New York

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

June 1, H. L. Summers, Malvern, Iowa.
 June 2, J. G. Biller, Crofton, Neb.
 June 3, Breeders' Sale, Rapid City, S. D.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 17, F. M. Zenor, Woolstock, Iowa.
 June 21, Binford & Sons, Liscomb, Ia.
 June 28, Combination sale, Chicago, Ill.
 Oct. 4, O. L. Foster, Letts, Iowa.
 Oct. 25, Brenizer & McCullough, Broken Bow, Neb., sale at South Omaha.
 Dec. 6, Will C. Meyer, Carroll, Iowa.
 Dec. 14, C. A. Saunders, So. Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranz, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Escher & Son, South Omaha.
 June 8, Stanley R. Pierce, Creston, Ill.
 June 9, James Williams, Marcus, Iowa.
 June 29, Combination sale, Chicago, Ill.
 Sept. 29, F. J. Nelson, Sheldon, Iowa.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 18, Christian-Lang Co., Omaha, Neb.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.
 Oct. 25, Anderson & Son, Newell, Iowa.
 Oct. 26, Lakeside Farm, Storm Lake, Ia.

Hereford Cattle.

June 30, Combination sale, Chicago, Ill.
 Oct. 20, Clore and Kinsell, Chariton, Ia.

Holstein-Friesian Cattle.

June 21-23, R. E. Haeger, Algonquin, Ill.

Polled Durham Cattle.

Sept. 28, L. G. Shaver, Kalona, Iowa.

Poland China Swine.

Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
 Sept. 24, Pfander & Sons, Clarinda, Ia.
 Sept. 28, H. W. Miller, Peterson, Iowa.
 Oct. 5, J. M. Stewart, Ainsworth, Iowa.
 Oct. 6, W. H. Cooper, Hedrick, Iowa.
 Oct. 7, J. P. Wyckoff, Highland, Iowa.
 Oct. 12, W. J. Crow, Webb, Iowa.
 Oct. 13, E. Gritters, Hull, Iowa.
 Oct. 28, Geo. Seifert, Lucas, Iowa.
 Jan. 19, Jas. G. Long, Harlan, Iowa.
 Jan. 19, Robert A. Schug, Coleridge, Neb.
 Jan. 20, C. R. Adams, Laurel, Neb.
 Feb. 7, W. H. Cooper, Hedrick, Iowa.
 Feb. 8, W. J. Crow, Webb, Iowa.
 Feb. 9, E. Gritters, Hull, Iowa.
 Feb. 9, C. C. Polly, Whiting, Iowa.
 Feb. 10, James Cockerton, Whiting, Ia.
 Feb. 16, Theo. Martin, Bellevue, Iowa.
 Feb. 21, Pfander & Sons, Clarinda, Ia.

Duroc Jersey Swine.

Oct. 25, W. M. Sells, Indianola, Iowa.
 Jan. 3, John Goddard, Harlan, Iowa.
 Jan. 4, C. A. Rasmussen, Harlan, Iowa.
 Jan. 5, A. F. Hager, Avoca, Iowa.
 Jan. 24, J. E. Smith, Victor, Iowa.

Percherons.

June 28, McMillan & Sons, Sioux City, Ia.
 Clydesdale Horses.

June 1, R. O. Miller, Lucas, Iowa.

Mules.

Oct. 19, C. C. Judy, Tallula, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Lincoln Hotel, Lincoln, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Mr. Herman Baltz, of Fremont, Neb., advertises Poland China boars for sale on page 28.

Hereford bulls are advertised for sale by Mr. August F. Hager, of Avoca, Iowa, on page 29.

Mr. C. C. Norton, Corning, Iowa, is offering some young Cruickshank bulls for sale on page 29.

Mr. H. W. Miller, of Peterson, Iowa, announces that he will hold his fall sale of Poland Chinas on September 28th.

Thirty-five Chester White fall boars and gilts are advertised for sale by Mr. John F. Holst, Jr., of Denison, Iowa, on page 28.

Messrs. Williams Bros., of Villisca, Iowa, are offering some splendid fall and spring Poland China boars and gilts for sale. They own one of the best herds in the state of Iowa and if you buy a boar or gilt of them now you will get the best. Read their advertisement on page 28 and write them at once.

Mr. C. W. Huff, Mondamin, Iowa, can count 100 spring Durocs on his place that are sired by Brighton Wonder. Huff's Advance, Buddy's Improver and Square Orion. He also has six fall boars and twelve fall sows that are sired by Huff's Advance. The pigs are doing well and Mr. Huff says for us to tell our readers that he will have boars for them good and plenty this fall. You can't forget Mr. Huff when it comes to buying a boar and he will

treat you on the square if you place an order with him. See page 28.

Mr. J. E. Hall, of Carthage, Mo., sells Missouri land and is prepared to furnish information about wheat, corn, clover and fruit-producing lands that sell from \$10 to \$60 per acre. See his advertisement on page 23.

Mr. W. F. Myers, 236 Endicott Bldg., St. Paul, Minn., has for sale a section of wild land in Stevens county, Minn. As Mr. Myers wishes to dispose of this land at an early date he will sell it at extremely low prices and on terms to accommodate any reasonable buyer.

Messrs. Fred Southard & Co., of Williston, N. D., advertise on page 23 that they have for sale lands in Williams county, North Dakota. These lands are as good as can be found in the state and are sold at reasonable prices. For additional particulars write to the address named.

Mr. E. Gritters, breeder of Poland China hogs, at Hull, Iowa, has this season a crop of about 100 March pigs. These are by Longfellow Jr., Gritters' Longfellow, North Star Chief, Ideal and Long Prospect. Mr. Gritters claims October 13th as the date of the fall sale, and February 9th for brood sow sale.

If the price and the quality of a Scotch bull enters into consideration, then prospective buyers cannot afford to overlook the advertisement of Mr. S. A. Bixler, Corning, Iowa, and he has some excellent things for sale. Read his advertisement on page 29 and write him about what he is offering for sale.

The new advertisement of Messrs. W. A. Lang & Co., importers and breeders of draft horses at Greeley, Iowa, will be found on page 26. They have a number of excellent animals on hand and expect to be receiving importations from time to time throughout the season. Just now they are offering some special prices.

Our readers who are interested in strawberry plants should note the advertisement of the Lakeview Nursery on page 11. This firm have for sale all the leading varieties and at prices which make them the very best of bargains. Read the advertisement and forward orders at once to Lakeview Nursery, Box 25, Poy Sippi, Wis.

Mr. G. A. Castle, of Inwood, Iowa, breeds big-type Poland China hogs and has fifty March pigs on hand. These are by Beauty Jumbo, Big Orange, Big Wilkes, Hadley's Expansion, Crow's Model 2d and Black Chief. Their dams represent Beauty Jumbo, Big Orange, Big Surprise and Chief Laddie. If nothing happens to Mr. Castle's pigs they

Get MILL Prices for Your Wool!

Hold your Wool a few days longer, while we explain the Silberman Plan of getting MILL Prices for you—two to three cents more per pound than elsewhere. Our Proposition is the best ever offered. We urge you to investigate. Write us a postal or letter. Mail it today.

Sell direct to the mills through us.

The biggest woolen mills in the world have men on our floors every day buying wool. We sell them 20,000,000 pounds a year.

We can sell **your** wool to these buyers at from 2 to 3 cents more per pound than you yourself could sell it any place.

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SILBERMAN BROS.,

Established 1866. The Largest Wool House in America.

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Chicago is the strongest market this season. Ours is by far the largest of all wool houses, with resources amounting to several million dollars.

Consign your wool to the biggest and most responsible wool house in America. Write a postal tonight for terms and full explanation. Better do it now.

Desk 15,

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after just now. So kindly remember this when it comes to buying your boar pig this fall.

Holstein-Friesian cows and heifers and a choice lot of young bulls are advertised for sale by Mr. Henry C. Glissman, Station B, Omaha, Neb. His celebrated Rock Brook Farm is one of the best today in the West and if you want anything in the Holstein-Friesian line it will certainly pay you to go and see Mr. Glissman at once. See page 30.

Mr. John Goodwine, the well-known breeder of Hampshire swine, of Pottomac, Ill., writes us that he is entirely sold out of brood sows, but that he is now prepared to book orders for spring pigs to be shipped about June 1st. He advises us that his hogs are doing well and in good health. Owing to the continued demand upon him for breeding stock, he has been compelled to sell

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TAKE a good look at an Anchor Brand Waterproof Collar—note the perfect linen finish and whiteness. Can't tell it from the finest linen—yet it will wear a year and never require laundering. Saves you money every day you wear one. Right-up-to-the-minute in style.



Collars 20 cents each
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If your dealer doesn't sell them write us. We'll send you our free style book.

CAPITAL COLLAR & CUFF CO., MANUFACTURERS, LINCOLN, NEB.

NEXT WEEK'S SALE PROGRAM

Wednesday, May 25 { Holstein-Friesians, Breeders' Consignment Sale, Watertown, Wis.
 Holsteins, S. B. Jones & Son, Watertown, Wis.

will this fall be big enough and good enough to suit the most critical Poland China breeders of the big type.

Mr. O. S. Larson, of Logan, Iowa, has 114 spring Durocs on the farm and an elegant crop they are. They are sired by King the Wonder, La-follette, Huff's Advance and three or four other good boars. He also has some good fall boars on the place. He has one of the best bunches of Duroc Jersey pigs we have seen so far this season and if everything goes right he ought to be heard from this fall.

Breeders of Aberdeen Angus cattle will kindly note the fact that the public sale of Mr. James Williams, of Marcus, Iowa, has been changed to June 9th. Manager Judy writes us that this change was made because, June 7th being the date of the primaries in Iowa, Mr. Williams did not consider it a desirable date. Arrangements have been completed with the railroads so that parties who wish to attend the Pierce and Evans sale can leave Creston at 6 p. m. and be in Marcus the next morning.

Mr. Peter Ellerbroek, of Sheldon, Iowa, is an old-time breeder of big Poland Chinas. He has 230 head of hogs on his farm, about 150 of these being March and April pigs, and thirty fall pigs. They are sired by such boars as Giant 2d, Giant Standard, Big Bone 2d, A Wonder, Longfellow Jr., Ideal, North Star Chief and Hadley's Expansion. Their dams are daughters of Big Surprise, King, Choice Chief Price, Chief Laddie, A Wonder, Mastodon 80th and Big Bone. The lines of breeding mentioned include about all there is in size of Poland Chinas.

Messrs. Wm. Ray & Son, of Defiance, Iowa, one of the oldest and best Poland China firms in the state, have about 125 spring pigs on hand so far this spring. These pigs are sired by their splendid boar, Bid Hadley II., a boar that belonged to the first-prize litter at the Nebraska State Fair last fall, and he was considered one of the best pigs seen on the grounds. The other litters are sired by Big Tom, R's Long Price and Model Tecumseh. Messrs. Ray have four fall boars on the place that are sired by Dude's Tecumseh. This firm are going to have as good a crop, if not a better crop than they have ever had before and the pigs are going to have plenty of size, something that western breeders are all

very closely of his younger stock, and for that reason the pigs which he will have for sale are practically all from mature dams.

Messrs. E. L. Nagle & Son, of Deep River, Iowa, whose herd of Chester White hogs is one of the better known in the West, have this season something like eighty spring pigs of great promise. Most of these are the get of Lewis E. and Model Boy. Lewis E. was a first-prize winner at the Minnesota State Fair, the South Dakota State Fair and the fourth-prize winner at Iowa. He was also the sire of all the younger things with which Messrs. Nagle made such a lot of winnings last year. Model Boy was a first-prize winner at both Minnesota and South Dakota State Fairs last year. They have also one litter by Extra Fine, he by Chicasaw Chief, champion boar at the Iowa State Fair last fall. Messrs. Nagle have shown Chester Whites at the Iowa State Fair for the past seven years and have always been prominent among the good ribbon winners. Their herd is peculiarly strong in the fact that good backs and good feet predominate. They have on hand besides the crop of spring pigs, some excellent September and October pigs of both sexes. Later announcements will be made concerning this herd.

In a recent letter ordering a change in their advertisement, which will be found on page 29, Messrs. Held Bros., of Hinton, Iowa, write as follows: "We now have a good lot of Poland China pigs which we expect to have ready for fall trade. Our old customers may be able to get what they want from us in boars, as we have a number of good males that are not related to those we have sold in other years. In looking over our young Short-horn hogs a few days ago a neighbor said, 'You have a better lot of calves than last year.' A number of the young bulls will surely grow to be extra good ones. Our young herd bull, Victor of Wayside 2d, by the noted Money Musk, pleases people and ought to get the type of calves that suit. Just now we offer a September yearling bull by Valiant Jr. and a January yearling by the same sire. The dam of the latter is Lady Cocanut by Imp. Matadore, the second dam being Imp. Cocanut 5th. We also have a bull just past a year old, sired by Gwendoline's Poy and out of a Scotch Orange Blossom cow." For prices on

these animals write to Messrs. Held Bros., Hinton, Iowa.

Messrs. List Bros., who breed Duroc Jersey hogs, at Granville, Iowa, are to be congratulated on the excellence of their crop of spring pigs, of which they have something like 100 head of March and April farrow. These are by Iowa Notcher, L. D. Sensation, C. H. Special, Sioux Chief and so on. Their dams represent leading strains of the breed. Messrs. List Bros. have made excellent progress as breeders and have one of the good herds in that section of the state. Later announcements will be made concerning their stock.

Angus Bulls For Sale.

Those of our readers who want a good Aberdeen Angus bull should read the advertisement of Mr. John H. Fitch, of Lake City, Iowa, on page 29. He has some extra good ones that he is offerings at farmers' prices.

Buy a Sow Bred to A Wonder.

Read the Poland China advertisement of Mr. H. Fessenmeyer, of Clarinda, Iowa, if you want to buy a sow bred to the celebrated big-type boar, A Wonder. He is also offering some good fall boars and gilts for sale. See page 28.

Mayne Offers Hereford Halls.

If you are in the market for a good Hereford herd bull read the advertisement of Mr. W. H. Mayne, of Harlan, Iowa, on page 30. Mr. Mayne is offering his splendid three-year-old herd bull, Spartan Kid 2d, for sale, also eight or ten young bulls for sale. He is offering these bulls at \$75 and up. Kindly mention The Homestead when writing him.

Sunny Valley Duroc Jerseys.

Mr. Frank Holles, of Granville, Iowa, is the proprietor of the Sunny Valley herd of Duroc Jersey hogs. This gentleman is comparatively a new breeder, but having secured good foundation stock, has promise of producing some excellent hogs. He has at the present time something like sixty head of spring pigs. These are by Sioux Chief. Their dams are daughters of Iowa King M., Royal Laddie and Mortgage Lifter.

Leonard & Son's Shropshires.

Mr. Arthur Leonard, of the firm of Messrs. Daniel Leonard & Son, of Corning, Iowa, returned from Canada about April 1st with a very select lot of Shropshire rams and ewes that he secured from the best breeders across the line. Mr. Leonard annually imports a lot of Shropshires from Canada, but he thinks that he got the best lot of sheep this time that has ever come across the border. These were secured from the well-known flocks of Messrs. Geo. Hinemmarsh, Alsaï Craig, Ontario; W. H. Beattie, Wilton Grove, Ontario; Wm. Pierce and McPherson Bros., Westminster, Ontario. They have fifty head of yearling rams and 100 head of yearling ewes from this importation now on their place that they are offering for sale at any time from now on. Later in the fall they will have an interesting announce-

ment to make in The Homestead. In the meantime if you want anything in the Shropshire line write them a line or go and see them and they will fit you out with whatever you want. Kindly mention The Homestead when writing them.

Village Farm Duroc Jerseys.

Mr. A. L. Grady, of Granville, Iowa, proprietor of the Village Farm herd of Duroc Jersey hogs, has a crop of something like seventy-five spring pigs mostly by Guthrie Chief Again, he by Guthrie Chief, and tracing to old Ohio Chief. Their dams are daughters of Sioux Wonder, Golden Rex and King of Cols. Again. Mr. Grady has an excellent lot of pigs and will make further announcement concerning them in later issues of The Homestead.

Jumbo Herd of Poland Chinas.

The Jumbo herd of Poland China hogs is owned by Mr. E. J. Syverud, of Inwood, Iowa. In the herd there are about 100 pigs of March and April farrow, the get of Big Orange, Black Chief and Ideal. Their dams carry the blood of Beauty Jumbo, Highland Chief, Long Wonder and Longfellow Jr. A representative of The Homestead on the 9th of May weighed a pig in this herd, farrowed March 5th, that tipped the scale at sixty-one pounds. This pig was one of a litter of eight.

Podendorf's Mammoth Poles.

We dropped in to see Mr. A. J. Podendorf, Logan, Iowa, one day last week and we saw there the best bunch of "big-type" Poland Chinas that we have ever seen on his farm. He has sixty-five spring and twenty-five fall pigs and to those men who are wanting size and bone we will say, don't you overlook Mr. Podendorf this season when it comes to buying your boar. These are sired by Big Chief and Orange Boy, two of the biggest big-type boars that can be found in western Iowa. In justice to yourself you cannot afford to overlook Mr. Podendorf this fall. It is his intention just now to be out to the fairs with a bunch and if he gets out you can depend that he will show you "big-type" Poles with a vengeance, as he is one of the best feeders in the state.

Reed's Duroc Jersey Herd.

Everybody who knows anything about the Duroc Jersey hog business has more or less knowledge of Mr. William Reed, of Rose Hill, Iowa. A representative of The Homestead visited Mr. Reed's herd last week. It is unnecessary to say that we found a grand lot of breeding animals there, because Mr. Reed has never been guilty of keeping anything else. His is the one herd which, above all others, has been confined to those lines of strictly known breeding merit and pedigree value. His brood sows are practically all the get of Advancer or Model Chief. His present crop of pigs are by Model Chief, Advancer and Whitehall King. Advancer still remains a hog of high attractive character, and although not at present in show-yard shape, is certainly about right for the purposes for which he is kept. Whitehall King is, with some slight reservation, one of the best sons of old King of Kings that ever came to the West, and the settled character of his pedigree is forcibly shown in the excellence of his pig crop. Mr. Reed has been somewhat unfortunate in the recent loss of that great old hog, Model Chief.

George Marshall's Poland Chinas.

A representative of The Homestead last week visited the farm of Mr. George F. Marshall, at Monroe, Iowa. Mr. Marshall is an old-time breeder and one who in his day captured the greatest Poland China prize ever given out at the Iowa State Fair. It was he who won the grand champion silver cup on a herd of Poland Chinas, all breeds competing. The honor was a great one and it was creditably won by a herd whose superiority was never questioned. At the present time Mr. Marshall is turning his attention toward securing greater size. In doing so he has during the past winter purchased a number of big-type sows and now has litters of the most promising character. One of these sows, Lady Monarch 5th, is a granddaughter of Gay Monarch by Right Kind, and on the side of her sire possesses strong Perfection and Tecumseh crosses. She is a very large sow, big boned and a splendid brood animal. She has a litter of eight choice pigs by Big Ex 47783. Big Ex is the herd boar in service in Mr. W. H. Cooper's herd. He is a son of Pawnee Chief and his dam is a granddaughter of Standard Chief. There is also a strong dash of Peter Mouw breeding in the pedigree. This latter contains a lot of splendid pigs that promise to be just exactly what Mr. Marshall is looking for. Another litter of considerable note is by Long King, the extraordinarily large boar that heads the Pfander herd at Clarinda, Iowa. These are great pigs and their dam is a sow of remarkable size and excellence of make-up. She is a daughter of Spellbinder and her blood lines are good enough to please the best, but above all this is the fact that she is really a show sow, so good in fact that Mr. Marshall compares her most favorably with his grand old sweepstakes sow, Nemo L. This is just such a sow as ought to be in the herd of some of the breeders having big-type sires of more than ordinary note. She could also be fitted for a state fair show with great promise of winning. As Mr. Marshall does not have a suitable herd boar, he would be willing to sell this sow to some appreciative buyer, and if taken as soon as her present litter are weaned she might be bought at around \$75, a very cheap price. There are a good many of other interesting points about Mr. Marshall's

herd, but these we will defer mentioning until later; when the present crop of pigs are ready for sale. Information concerning the sow above referred to may be had by writing to Mr. George F. Marshall, Monroe, Iowa.

Red Polled Bulls for Sale.

Those of our readers who want a good Red Polled bull should write or go and see Mr. C. W. Huff, Mondamin, Iowa. He is offering a splendid yearling for sale and he also offers his herd bull, Advancer 15959. The yearling bull is sired by a first-prize bull at the International and the older bull is one of the best Red Polled bulls in the state. If you want a Red Polled bull it will pay you to write or go and see Mr. Huff. See page 28.

Hager's Duroc Jerseys.

Mr. August Hager, of Avoca, Iowa, has seventy-five fall and spring Duroc Jersey pigs that he is growing out for the fall trade, and he has some of the very best breeding that is now going. He has litters by Peerless Chief, Crimson Wonder Again, Model Prince, Godard's Colonel and King The Colonel. Mr. Hager is just now beginning to go after these pigs and he is going to have some good boar propositions to offer the trade this fall. He intends to sell these privately, but he will hold a winter sale, at which time he will have some of the cream of the breed to offer. He has one young Hereford bull for sale and he will be pleased to hear from anybody who wants one.

C. E. Veak's Durocs.

Eighty spring pigs is the number that Mr. C. E. Veak, of Essex, Iowa, has tallied up on his board so far this year, and these are sired by his noted prize-winning boars, Model Prince, H. A.'s Choice Goods, High Col., Proud Col., Harding's King of Cols. and a number of other boars. Mr. Veak has just got through planting corn and is now going to work on the pigs. It is his intention to go out to the fairs this fall, but we are not going to say what he will take out with him. We would rather wait and do the talking after the show. You can just put it down that he will be there with some of the good things, because he has material to work on. In the meantime remember him when the fall season comes around, as he will have some good boars for sale by that time.

A Dakota Short-horn Sale.

On Friday, June 3d, a public sale of money-making Short-horn cattle will be held at Mitchell, S. D. This sale will be under the management of the American Short-horn Breeders' Association. It will include twenty bulls and twenty cows, about one-half of which will be of straight Scotch lines of breeding, and the remainder possessing good Scotch-topped crosses. Contributors to this sale are Messrs. N. A. Lind, Rolfe, Iowa; H. G. McMillan & Sons, Rock Rapids, Iowa; W. J. McLean, Rock Valley, Iowa; S. R. Miller, Ireton, Iowa; Walpole Bros., Rock Valley, Iowa; H. M. Corwin, Rock Valley, Iowa, and William Taylor. Mr. Lind's consignments include eight bulls and eight cows, a part of which are by Fancy's Pride 182018 and Imp. Black Watch 153334, the latter a half-brother to Choice Goods. Among the females is the cow, Imp. Nonpareil 33d, she by Clan Alpine. Messrs. H. G. McMillan & Sons contribute five bulls and seven cows sired by Morning Joy 198620 and Lakewood Sultan 270041. Mr. McLean's consignment is represented by six cattle carrying the blood of Valley Sovereign 339136. Mr. Miller sells four head carrying the blood of Trout Creek Marquis. These cattle have not been fitted for the show ring, but are a good, useful lot, in good, strong breeding condition, and are cattle that will prove useful and profitable to the buyers. Advertisement will be found on page 30 of this issue.

The Victor Duroc Jersey Herd.

Mr. J. E. Smith, of Victor, Iowa, is a young man whose enthusiasm and good judgment have brought together a herd of Duroc Jersey hogs that will compare with those of many of the oldest breeders. During the past season he bought quite a number of brood sows from the leading herds of the land. One of these sows was High Notcher's Best, by High Notcher, dam Nellie B. by Proud Advance. This is a splendid sow from Morton's and she has a litter of ten cracking good pigs by Premier Col. Another of these sows is a daughter of Matchless Chief, dam Belle's Peach 2d. This sow is a good one, with an extra fine litter by Harding's King of Cols. Two sows are daughters of Kelly's Pilot Wonder, and have litters by Col. S. Another is a double granddaughter of Col. S. and has a litter by Kelly's Pilot Wonder. One is by Whitehall Chief, he by Whitehall King, and she has a litter by Tipple's Col., that was a prize winner at the Iowa State Fair and other good shows two years ago. Among Mr. Smith's sows of his own breeding are those carrying the blood of Glendale, Advancer, Model Chief and so on. A good proportion of his present crop of pigs are by Prairie Commodore and Victor Wonder. Prairie Commodore is a hog of great size, bone and vitality. He was bred by Mr. Harris, of Kentucky; his sire was Commodore and his dam, Pennyville Duchess by Top Notcher X. We consider Prairie Commodore a herd boar of unusual merit. Victor Wonder is by Red Wonder, the Iowa State Fair sweepstakes-winning hog, and his dam was Helen Blazes 3d, of noted breeding. Both have done excellent service in the herd. Mr. Smith has been an exhibitor at his county and district fairs, winning sweepstakes prizes for three successive years. He has in the herd today a lot of splendid breeding animals and a crop of pigs of extraordinary promise. His announce-

ment will appear in a later issue of this paper. He claims January 24th as the date for his brood sow sale.

Angus Sale at Woodlawn Farm.

One hundred head of Aberdeen Angus cattle will be offered at public sale on Wednesday, June 8th, at Woodlawn Farm, Creston, Ill. Seventy-five head of this offering will come from the herd of Mr. Pierce and the balance will be offered by Mr. John D. Evans, of Sugar Grove, Ill., one of the most successful Angus breeders of the middle West. There will be forty head of Blackbirds, eighteen head of Trojan Ericas, twenty-five head of Prides of Aberdeen in the sale, as well as a number of Queen Mother, Heatherbloom and other popular families. This will be one of the most important Angus sales of the season. The men making it occupy front rank in the breeding world; the cattle are of the highest class, both as regards breeding and individual merit, and owing to the large number to be sold in one afternoon there is certain to be plenty of bargains. A Homestead representative has inspected the cattle for this sale and will submit details in later issues. Applications for catalogs should be made to Mr. Stanley R. Pierce, Creston, Ill.; John D. Evans, Sugar Grove, Ill., or M. A. Judy, sale manager, West Lebanon, Ind.

Miller's Clydesdale Sale.

On Wednesday, June 1st, at Chariton, Iowa, Mr. R. O. Miller, of Lucas, Iowa, will make a public sale of twenty head of registered Clydesdale mares, one or two of which will be imported mares, the rest all bred in Canada. There will be four yearling coming two-year-old stallions in the sale, and these were also brought over from Canada. These stallions and mares were personally selected by Mr. Robert Miller, of Canada, who is considered one of the best judges of Clydesdale horses on this side of the water. Mr. R. O. Miller has been importing these Canadian-bred Clydesdales for a number of years and has been selling them privately, but he has decided to try a public sale and that accounts for this offering at this time. These mares are in their everyday clothes and are in the condition that will do the man good who buys them. They have had the run of the Miller farm at Norwood and while they will not be in high flesh, yet they will be right to buy. There are several splendid young stallions in the bunch and it will be a good time and place to buy either mares or stallions. Kindly write Mr. R. O. Miller, Lucas, Iowa, for his catalog and please mention The Homestead when doing so. See page 27.

The Hess Aberdeen Angus Sale.

Every reader of this paper who is interested in the betterment of beef cattle should read the advertisement of Mr. Harvey J. Hess, of Waterloo, Iowa, on page 30, in which he announces that his public sale of Aberdeen Angus cattle will take place on May 31st. A wonderful lot of quality and merit go into the consignment of this sale. No. 1 in the catalog is the cow, Blackbird of Cloverland 5th. She is a good cow of the right type, that has proven her breeding qualities. She has a good heifer in the sale and will sell with calf at foot by the great bull, Ebony of Quietdale. She is a granddaughter of Lord Woodlawn on the side of her sire and on the side of her dam her pedigree includes the names of Blackcap King, Heather Black Him, Moon Eclipse and others whose names give it added strength. Blackcap 21st is another well-bred Blackbird cow that sells with a bull calf at foot. This calf is away above the average and is a promising show prospect. Blackcap 21st is a daughter of Black Monarch and her dam was by Emulus, and farther back than that we find a strong infusion of the blood of that wonderful prize winner, Jim Jams. Blackbird of Quietdale 8th is No. 3 in the catalog. This cow was a member of Mr. Hess' show herd and still has promise of wonderful development. She has size and finish and goes into the sale bred to the K. Pride bull, Kandahar of Quietdale. One of the very best, and also a member of the show herd, is Blackbird of Quietdale 9th, a daughter of Ebony of Quietdale, dam a daughter of the McHenry herd bull, Proteros, and otherwise a cow of splendid lines of breeding. She is a dam of what is probably the best bull calf in the herd. She is a sister of a cow that was never defeated in the show ring. A great show prospect and about as good a thing as will be found in the lot, is Blackbird of Quietdale 12th, a full sister to the cow just mentioned. She is as good as anything that will be sold this year. A cow whose pedigree will be appreciated is Imp. Elapiss 2d. She is by Bystander, he by Prospero of Dalmore. Her dam was Elapiss by Provo. There are few better Trojan Erica pedigrees than that which this cow represents. She is a wonderful producer and her calves have won laurels at state fairs, as well as in breeding herds. While a large proportion of these cows are by Ebony of Quietdale, there will be others the get of Elmar Lad (by that noted old show bull, Heather Lad of Emerson 2d); Eglamour of Quietdale, grandson of Pabno; Junior Jehu, Black Monarch of Emerson, Kandahar of Quietdale, King Edward W., Magnet of Estill 2d, Prince of Braevell, Examinee, Britley of Quietdale, Black King of Homedale, Baron Inca, Dalgerna and one or two others. Additional facts concerning this sale consignment will be given in later issues of The Homestead. In the meantime, however, every reader should send for a copy of the catalog, for which address Mr. Harvey J. Hess, of Waterloo, Iowa. A dozen of these cows will sell with calf at foot. All

others, with the exception of eight young heifers, are safe in calf by Ebony of Quietdale, Kandahar of Quietdale or Autocrat.

The Universal Holst.

The Universal hoist is an appliance by means of which hay carriers or stackers may be operated by engine power at a saving of expense and time. The device is advertised on page 6. It is manufactured by Victor Speers & Co., 26 State St., Cedar Rapids, Iowa. It is sold on a free thirty days' trial and at reasonable prices. For additional price write to the address named.

The Biller Short-horn Sale.

The public sale of Short-horns which Dr. J. G. Biller & Son will hold at Crofton, Neb., on June 2d, will include some extra good and attractive cattle. One of the most interesting things is the bull, Bold Archer, considered one of the best young bulls in the state of Nebraska. This bull was sired by Straight Archer, the noted herd bull that did such excellent service in the N. P. Clarke herd at St. Cloud, Minn. His dam was Mary Ramsden, a cow of splendid Scotch lines of breeding, and a producer as well. Bold Archer is past three years old and weighs 2,400 pounds. He is low down, smooth, with good drooping horns, fine red color and a strictly first-class, up-to-date Short-horn bull from all points of view. He is good enough to head any herd in the land. There will be several other good young Scotch bulls in this sale. Of the thirty-two females, ten will sell with calf at foot. Although this is the first sale consignment to be sent out from the Biller herd, it will consist of good ones because Messrs. Biller have been consistent buyers of high-class cattle ever since they started in the business. For catalogs write to Dr. J. G. Biller & Son, Hartington, Neb.

The Bull Offering in Escher & Son's Forthcoming Great Angus Sale.

In no other sale this year will there be a better opportunity to select an Aberdeen Angus herd bull than in the sale of Messrs. Chas. Escher & Son, which will be held at South Omaha, Neb., on Wednesday and Thursday, June 1st and 2d. There are more Angus breeders looking for herd headers than in any breed that we know of, and they will certainly have a splendid opportunity for selection in this great two-day sale. There will be fifteen bulls in the sale and we will make mention of some of the more important ones at this time. Among the older bulls is Imp. Kanimura of Ballindalloch, one of their chief stock bulls and a bull bred by Sir George McPherson Grant. He is a son of the mighty Delemere, and is out of a daughter of the noted Eblito. This bull has been used for several years in their herd with the greatest success, and some of the best young things that will be sold in this sale will be sired by him, so that prospective buyers can see how he breeds. He is a five-year-old K. Pride and the breeder who has a good herd and who is in need of a good herd bull will find in Imp. Kanimura a splendid herd bull proposition. Another four-year-old bull that will please many of those who are looking for a herd bull is Sir Blackbird, a son of the noted show and breeding bull, Woodlawn Blackbird Lad, and out of Mr. Ed Davis well-known show cow, Blackbird Favorite 2d. Here is one of those very low-down, thick, blocky Angus bulls, a typical "doddie" in every way and this bull has also been used with splendid success in the Escher herd. Black Jester 2d is a son of Imp. Black Jester of Ballindalloch (the bull that they sold in their sale last year to go to Ohio) and his dam is the splendid cow, Blackbird of Cherokee 10th. He is a two-year-old and is one of the good herd bull propositions in this sale. Among the best of the younger bulls in the sale is Erston, an April yearling sired by Imp. Earl Erica of Ballindalloch. He has for a dam the splendid cow, Imp. Erora by Interdict, and he is a young bull of rare excellence. He is a Trojan Erica and the breeder who is looking for a bull of this age cannot afford to overlook this fellow. Another good Trojan Erica is Elgon, a son of Imp. Earl Erica of Ballindalloch and out of Imp. Elannah. He also has a brother in the sale a year younger. Black Pug is a November yearling by Imp. Black Jester of Ballindalloch and out of the noted cow, Imp. Black Pudding, unquestionably one of the best cows ever owned in the West. This is a Blackbird bull and one that will grow into a large, useful herd bull. There are several other Blackbird and K. Pride bulls in the sale and for the man who is seeking a herd bull we will by all means say to him to be sure to be present on day of sale. Just a word here about the female offering. It is certainly one of the greatest collections of cows and heifers that has ever been put through an Aberdeen Angus sale ring. There will be twenty head of imported cows and heifers in the sale—the cream you might say of Europe and America. Behind these stand the intelligent effort and the life work of the most noted Angus breeders of modern times. Individuality and collectively they are just such a lot as you will expect from this well-known herd, and if you should come to this sale and feel disappointed it will not be the fault of the cattle. A very large portion of this sale offering will either be sired by an imported bull or out of an imported dam and the greater portion of the sale offering will be bred to one of the imported bulls now doing service in the herd. The breeders and the feeders of Angus cattle owe it to Messrs. Escher & Son to attend their sale, as no other firm in this country has done more to advance the interests of this breed than they. You will cer-

tainly be interested in their illustrated sale catalog which will be sent free to readers of The Homestead. Kindly mention The Homestead when writing for it.

Strater Bros.' Poland Chinas.

Messrs. Strater Bros.' herd of Poland China hogs at Monroe, Iowa, is one of long standing and one which has in its time sent out a great many high-class hogs. At the present time they have a crop of about 120 March and April pigs. These are the get of Standard Chief Jr. and Big Sensation. Standard Chief Jr. is a five-year-old son of Standard Chief, he a son of that great old Chief Tecumseh 3d, and winner of first in class at the Iowa State Fair, and probably the largest yearling that ever captured a prize at that show. The dam of this hog is Young Darkness 5th, a sow whose blood lines trace directly back to One Price, probably the best representative of the great Tom Corwin 2d strain. There is no denying the fact that the mingling of the Tom Corwin 2d and Tecumseh strains of blood have produced the greatest Poland Chinas of the breed. We believe there is not a stronger showing of these strains in any herd boar than that which is shown in the pedigree of Standard Chief Jr. He is a hog of size, with an attractiveness of style and finish that cannot fail to please the most critical breeder. Big Sensation is a three-year-old also of size, and a hog with visible evidence of strong breeding character. He is on his sire's side of strong Tecumseh breeding; on the side of his dam he traces back to Look Me Over and others of considerable note in the past. Additional facts concerning this herd will be given in a later issue of this paper when the season's advertising has begun.

Dispersion Sale Windy Summit Short-horns.

On June 1st, at Marshall's Feed Yard, in Malvern, Iowa, Mr. H. L. Summers will close out his entire Windy Summit herd of Short-horns. This herd has been one of the well-known Short-horn herds in Mills county and western Iowa. Mr. Summers has sold his farm near Malvern and is moving west and therefore this dispersion sale at this time. There will be about forty-three head of cows and heifers in the sale, and twenty of these will have calves at foot. Every cow in this herd has had to raise her own calf and those who are looking for some good milking Short-horns will find them in this sale. Included will be the two herd bulls, Bud White and Secret Archer. The former bull is a son of Cumberland's Banner Bearer, which in turn is a son of old Cumberland. Bud White was shown at the International in 1907 in one of the strongest classes, and without any special fitting he won third prize. Had he at that time been in experienced hands he would have easily gotten first place. He was also a winner at many of the best shows that year in western Iowa. Since that time he has been used with the best of success in the Summers herd and now will be sold with the rest of the herd. Secret Archer is a son of the great show bull, Ceremonious Archer, that is now being used in the F. O. Lowden herd in Illinois. The cattle will be in their everyday clothes and the number of calves at foot will demonstrate that here is a working herd at all times. Those of our readers who want to buy some good Short-horns—and we especially call attention to those farmers who are looking for milking Short-horns—will be able to buy them in this sale at their own price. He will also sell forty acres of Mills county timber and pasture land at the same time. Write Mr. H. L. Summers, at Malvern, Iowa, for copy of his catalog and kindly mention The Homestead. See page 27 for advertisement.

Osceola (Neb.) Duroc Breeders.

A representative of The Homestead recently spent a day with the enterprising Duroc Jersey breeders of Osceola, Neb., Messrs. E. J. Brown and Samuelson & Danielson. One of the first things that impresses one when visiting these great herds is the fact that these gentlemen are breeding business hogs—hogs that are right, hogs that are good enough to win at the leading fairs and are of the type and have the constitution to breed on and make good in the hands of breeders and farmers, as dozens of satisfied buyers will testify. Mr. Brown has at his well-equipped farm about 160 spring pigs that are very fine. Several litters are extra choice, especially the litter out of a daughter of Brown's Chief and sired by Red Knight, which it will be remembered won the grand championship in 1905. Another litter is out of Fancy Maid and sired by Red Wonder. Fancy Maid is one of the greatest show sows in the state and sold at one time for \$850. Just keep this litter in mind; you will hear from them later on. Mr. Brown has been using Red Knight, Gold Dust Knight, Red Duster, Proud Ceres, Mascot, Crimmon Wonder III, and the champion at Nebraska fair last year, Medoc Jr., and has some litters by other great boars. Messrs. Samuelson & Danielson have not as many early pigs as Mr. Brown, but have a number of very fine litters of April farrow. These pigs are sired by Lincoln Wonder, Red Wonder, Red Knight, Kure's Challenger, Proud Ceres, I Am Perfection Wonder and others. It will be remembered that these gentlemen, together with Mr. Brown, own the champion, Medoc Jr. They had only a few sows bred to this great boar and the demand was so great that all of them that were bred for early farrow were sold in their winter sale. They will have some late litters by him, however. This boar is breeding a very fine color and type and has every indication of taking high rank among the great

boars of the breed as a getter, as well as a winner. Keep in touch with these gentlemen and watch these columns for further particulars.

Bellows Bros.' Short-horns, June 14th.

Messrs. Bellows Bros., of Maryville, Mo., have, in selecting the bulls and females for their annual sale at Parkdale Farm, on June 14th, selected a superior lot of cattle (taken as a whole) than has before gone in one of their sales. Possibly one bull superior to a couple listed for this sale has gone through a Bellows sale, this being Hampton's Model, that sold for export to South America. Their efforts as cattle improvers will be more fully demonstrated than ever before and those interested in the cattle business are invited by Mr. C. D. and Col. Geo. P. Bellows to be their guests on June 14th, inspect their breeding herds, the cattle they sell and the work they are carrying on. Parkdale Farm, where the sale is held, is a model; it will be worth your while to spend a day here. In future issues we will give more details of the offer. In the meantime send to them for their beautifully-illustrated catalog. It tells the story. Kindly mention this paper when doing this.

Duroc Jersey Boars For Sale.

On this page of this week's issue Mr. Mark W. Eddy, of Fontanelle, Iowa, one of the well-known Duroc Jersey breeders in this state, starts an advertisement for fall boars and he is also booking orders for spring boars to be delivered later. He has the following to say about these boars: "I have four splendid fall boars for sale that are sired by my splendid boar, Iowa Model, and these are good enough to be sent anywhere. They are out of one of the best sows I have ever owned, Missouri Girl II, and she is by Nidlinger's Model. These boars are long, wide and heavy-boned fellows and they have a right to be. They are bred right and they are right and I am pricing them at from \$25 to \$50. The sire of these boars is Iowa Model and he is a son of the noted sweepstakes boar, Commodore. Iowa Model is now past two years of age and he is as smooth as a pig and best of all he is proving himself a splendid breeder. His spring pigs that I now have on the place are the best I think that I have ever raised. My spring crop is sired this year by him and also by Fancy Orion. I am now booking orders for spring boars for fall delivery. These are out of daughters of such noted sires as Model Prince, H. A.'s Choice Goods, Inventor and other leading boars. Just tell your Homestead readers who are now wanting fall boars to send me their order at once or let me book their order for a spring boar to be delivered this fall. They can buy them right of me now, and now is the time to buy." Send Mr. Eddy an order for one of these boars at once and you will be sure to get the best.

Cooper's Poland China Herd.

Col. W. H. Cooper, of Hedrick, Iowa, has a herd of Poland China hogs, which has demonstrated its value by acquiring a wonderful popularity within the last two years. Last spring Colonel Cooper made a brood sow sale at which the average price on something above sixty head was \$67 each. Not a little of the cause for the manner in which buyers appreciated these hogs was the fact that they were either daughters of or bred to his principal herd boar, Big Ex 47783. Big Ex is a massive fellow of excellent proportions, with an unusually strong bone and a generally attractive make-up. He is by Mr. John Blain's old Pawnee Chief, tracing to Chief Tecumseh 3d and to Expansion through some highly-appreciated animals. On the side of his dam he traces to the same source through Standard Chief. The second dam is by Mr. Peter Mouw's old Peter's Wonder, which represents some of the best things that ever went from a Mouw herd. Colonel Cooper has at the present time something like 100 spring pigs, largely the get of this hog. Others, however, are by Chief Price, a grandson of Pawnee Chief, whose dam traces to Longfellow and others of considerable note. Some also are by Superior Look. This fellow has a good deal of size, great length, a heavy bone,

TOO LATE TO CLASSIFY.

DRAFT HORSE HEADQUARTERS GREELEY, IOWA.

DRAFT horse buyers will find at our barns a lot of valuable stallions—Belgians, Percherons and Shires of right age for immediate service. A few good Coachers. Come and see how cheap we sell.

W. A. LANG & CO., GREELEY, IOWA.



is broad backed and full, deep hams. He has all the good points, in fact, that go to make up a sire of unusual excellence. Colonel Cooper's herd contains some of the best animals of the large-type strains, and during the coming sale season he expects to put on the market offerings that are as attractive as any that will go into the sale rings. Interesting information will be given in later issues of The Homestead.

Lock, the Artist.

The engraving shown herewith is a photograph of Mr. A. V. Lock, livestock artist, of Remington, Ind. Mr.



Lock starts on a tour through the West about the 1st of June and solicits correspondence from those who have sketching or drawing to be done. See page 27 for advertisement.

Lafollette is Dead.

The death of the great boar, Lafollette, marks the close of one of the most wonderful careers of any boar of the Duroc breed. No boar of the breed, having no show record, was so well known throughout the length and breadth of Durocdom and we doubt if any other boar has so many sons at the head of high-class herds. The immediate cause of his death was calculi, or stones in the bladder. Everything possible was done for him and an operation was performed, but it was too much for the old hero, and he passed away on April 13th. At the time of his death he was at the head of the Oak Hill herd, owned by Mr. W. L. Hull, of Logan, Iowa. Mr. Hull purchased him from Messrs. Hood & Baker, of Dunlap, Iowa, who paid \$2,050 for him at the D. R. Wilson sale, October 1, 1907, the highest price ever paid for a Duroc boar in the state of Iowa at public auction. Lafollette was sired by Belle's Chief, he by Red Chief I Am and out of the grand old show and breeding sow, Nebraska Belle. Lafollette's dam was Bishop's Choice, one of the greatest producers of show and

Brookmont Herefords



IMP. MARCH ON 76835, Father of All March Ons, now in Brookmont Herd.

CHOICE YOUNG HEIFERS

with calf at foot are a special offering just now. We also have a superior lot of bulls, ten months to two years old, excellent in breeding, individuality and type. You can have them at just about your own price.

A. E. COOK, Odebolt, Ia.

Hampshire Pigs

I AM now booking orders for spring pigs—male and female—and will begin to ship about June 1st. They are by four different sires and represent the strains with which I won championship on pen of barrows at the International show of 1909.

JOHN GOODWINE, POTOMAC, ILL.

DUROC JERSEY BOARS

I HAVE four splendid fall boars for sale, sired by Iowa Model and out of Missouri Girl II; long, wide and heavy-boned fellows. Also booking orders for spring boars. Prices, \$25 to \$50. Address MARK W. EDDY, FONTANELLE, IOWA.

breeding stuff the breed ever saw. Lafollette comes from a long line of famous hogs and moreover is the sire of some of the best the breed affords. As a sire he stands in the front rank and his produce breeds on in the same channel. We mention but a few among the host of good ones. W. L. A.'s Choice Goods, for many years at the head of the great herd of Messrs. W. L. Addy & Sons, of Parnell, Mo., is probably one of his best-known sons and is in turn a sire of the best, he being the sire of the noted show boar, H. A.'s Choice Goods. Another great show and breeding boar is Alphonso, at the head of the herd owned by Mr. Jno. R. Tupper, Woodbine, Iowa, pronounced by many as the best son of Lafollette. Lafollette sired M. A.'s Model, sweepstakes sow at Indiana in 1907, and Lafollette sows have topped a number of the best sales in recent years. Sows bred to him averaged \$85 in the Hood & Baker sale of February 21, 1908. All this demonstrates the fact that Lafollette and his produce are breeders of the right class. Lafollette is gone, but he has left his impress on the Duroc world and his descendants will go on in the work of building a monument to his memory. Mr. Hull has a few litters this spring by Lafollette and several sows are bred to him for summer farrow. Keep this in mind and get in communication with Mr. Hull, as this will be the last opportunity to get sons and daughters of Lafollette.



SOME PRIZE-WINNING ABERDEEN ANGUS CATTLE.

The illustration given above is that of the first-prize calf herd at the leading state fairs of 1908, as shown by Mr. Harvey J. Hess, of Waterloo, Iowa. It is of particular interest at the present time that not only do some of these cattle go into his public sale of May 31st, but a large proportion of the others are by Ebony of Quietdale, the sire of most of these. The get of this bull have proven themselves of extraordinary value both in show rings and breeding circles, and this sale will be an opportunity to procure it which does not often come before buyers. The advertisement will be found on page 30. Catalog may be had by writing Mr. Harvey J. Hess, Waterloo, Iowa.

Dispersion Sale of WINDY SUMMIT HERD SCOTCH AND SCOTCH-TOPPED

SHORT-HORNS

SALE TO BE HELD IN MARSHALL'S FEED YARD

MALVERN, IOWA, JUNE 1, '10

45 HEAD--43 COWS AND HEIFERS, 2 BULLS--45 HEAD



BUD WHITE,
Third-prize bull, International.

SECRET ARCHER 31145,
A son of Ceremonious Archer.

INCLUDED will be my two herd bulls, Bud White, third-prize bull at International Exposition and Secret Archer, a son of Ceremonious Archer. Twenty head of calves at foot. If you want some good milking Short-horns come to my sale. This sale of mine will certainly be the place to buy Short-horns. Send for my catalog at once. Col. Geo. P. Bellows, Auctioneer. Please mention Homestead when writing.

H. L. SUMMERS, MALVERN, IA.

Robt. E. Haeger's FIFTH ANNUAL AUCTION

350 HEAD REGISTERED HOLSTEIN-FRIESIANS.
America's Largest Sale of the World's Best Dairy Cattle.

JUNE 21, 22, and 23, 1910—THREE BIG DAYS

100 COWS.

Many with official records and others that can make them. Great, large beauties with perfect udders and teats that are sure to please you.

200 HEIFERS.

That have their whole life before them. Sired by the best bulls and many out of large-record dams. This is greatest bunch of heifers ever offered at auction.

50 BULLS.

From two months to four years in age. Show bulls of the highest quality sired by the best bulls in the world and out of dams that show quality and production.

REMEMBER: All stock over six months old is tuberculin tested. That we offer stock in this sale that others would not price you. Catalog ready June 8th, mailed on application.

Robert E. Haeger, Box E, Algonquin, McHenry Co., Ill.

LIVE STOCK AUCTIONEERS.

J. L. McILRATH

GRINNELL, IOWA.

Live Stock Auctioneer

Breeder of registered Belgian horses. Ask my customers. Write me.

GEO. B. BUCK

AUCTIONEER AND EXPERT JUDGE. Have judged at Illinois and Iowa State Fairs. Have sold for the best breeders of the central West the past three years and have them rebooked. Posted on pedigrees and values. Sales made anywhere. Terms \$20 and expenses. I always deliver the goods. Write me for dates at Sunny Hill, Ill.

PLINY NICHOLS
WEST LIBERTY, IOWA.

Live Stock Auctioneer

SALES made anywhere. Reasonable terms. I also breed Poland Chinas and Short-horns.

O. L. MOSSMAN, MASON CITY, IA.
LIVE STOCK AUCTIONEER

Thoroughly posted as to pedigrees and values. Write for dates. Terms reasonable.

Geo. W. Dykes **Live Stock Auctioneer**
DANA, ILL.

LIVE STOCK AUCTIONEERS.

C. C. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere. Reasonable terms. Have pleased others; can please you. Write for Dates.

Col. C. W. Smith

LIVE STOCK AUCTIONEER

POSTED on breeds and values. A live wire on block or on the ring. Make your next date with me. Terms reasonable.

FAIRBURY, NEBRASKA.

CAREY M. JONES

LIVE STOCK AUCTIONEER

2856 Washington Blvd., CHICAGO, ILL.

Phone West 1228.

W. K. HENSS, WAYLAND, IA.

LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

Geo. P. Bellows **Auctioneer**
Rodgred Live Stock
Maryville - Mo.

A. C. Manifold **Auctioneer**
Tarkio, Mo.
Pure bred sales specialty

SILAS IGO, Indianola, Iowa
Live Stock Auctioneer. Write me for date.



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EIGHTEEN years' experience. Write me for dates. Copies of my live stock poems free when stamp is enclosed. Am booking fall, winter and spring dates.



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HARLAN, IOWA.

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I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.

H. L. Igleheart

Glendale, Kentucky,

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CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

ELWOOD J. PITTMAN

STERLING, ILLINOIS.

Fifteen years' experience selling live stock.

Write for Terms and Dates.



LIVE STOCK AUCTIONEER

SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed. W. F. STRATTON, CAMBRIDGE, IOWA. Breeder Short-horn cattle and Duroc Jersey swine.

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ENDORSED by the Best Auctioneers of the world. Greatest opportunity ever offered to young men of every station and at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

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THE President of Jones' National School of Auctioneering is one of America's leading Live Stock Auctioneers. While he gives the School his personal attention and instruction he is only one of fourteen instructors and lecturers of national reputation employed for the coming term of five weeks, opening July 25, 1910. Actual practice required at the school before diplomas are given. For catalog and information address.

ORVAL A. JONES, Manager,
2856-2858 Washington Blvd., Chicago, Ill.



FRED REPPERT,

DECATUR, IND.

Live Stock Auctioneer.

Cattle Sales a

Specialty.....

Write for Dates and Terms.

LEARN AUCTIONEERING

And make from \$10 to \$50 per day. We teach by mail or here in school. 121 students attended January term 1910. The largest school of the kind in the world. Free catalog for either course. Which do you want?

MISSOURI AUCTION SCHOOL,
W. B. Carpenter, Pres., Trenton, Mo.

W. D. STOLLER, Auctioneer
Live Stock a specialty. Address R. G. Vinton, Ia.

THEO. MARTIN
Live Stock Auctioneer. Bellevue, Iowa.

LIVE STOCK ARTISTS.

A. V. LOCK, REMINGTON, INDIANA.
Live Stock Artist. Write me.

YORKSHIRE SWINE.



Large Yorkshires Champion Herd of U. S.

Special offering now 128 gilts, 9 to 12 months, guaranteed safe, due last of March to June, now ready for shipment; weight 200 to 375 lbs., prices f. o. b. \$40 to \$75 each, depending on size, quality, age and date of breeding. Also 20 sows of fall litters at \$25 each. Order early, as demand was never so strong.

Thos. H. Canfield, Box 7 Lake Park, Minn.

DUROC JERSEY SWINE.

20 DUROC JERSEY FALL BOARS

Sired by Shabona, he by Highland Duke by Chief of All dam Lady Chief by Golden Crown. The dams of these boars are by Ambition, Cash Register, Big I Am and Tip's Pride. Write for description and prices to

W. R. CHILDS, PRINCETON, ILLINOIS.

When writing, kindly mention The Homestead.

Fall Males and Gilts FOR SALE

Sired by Defender and others out of the dam of Defender. Prices reasonable for such breeding and stuff of much quality. Mention The Homestead.

FRED BROWN, LOAMI, ILLINOIS.

20 Duroc Boars 20

Got by King of Cols. II. and G. C.'s Col. Dams are Model Chief Again sows. All are good, of summer and fall 1909 farrow. Spring pigs doing fine. Address

FRANK ELDER, GREEN, KANSAS.

30 Duroc Gilts 30

Summer and fall farrow. Sired by G. C.'s Kan. Col. Bred to son of King of Cols. II. and W. L. A.'s Choice Goods dam, few to Nebraska Wonder, Crimson Wonder's best son. Also fall boars, same breeding.

CHAPIN & NORDSTRUM, Green, Kan.

BUY A BOAR NOW FOR SALE

FIVE fall boars. Choice, growthy fellows by Hard Advance by Harding's Proud Advance; dams by Pilot Lad II. by Checkmate, second in class, World's Fair, St. Louis. These are big enough for immediate service. In writing, mention this paper.

H. K. RAY, KEWANEE, ILLINOIS.

FOR SALE 10 FALL DUROC MALES

By Rose Chief by Belle's Chief by Ohio Chief, dams of Proud Advance and Pilot Wonder breeding. These males are ready for service and the prices are right. Write for prices and description, mentioning The Homestead.

W. A. FELL, CAMBRIDGE, ILLINOIS.

HUFF'S DUROCS

HUFF'S Advance, Brighton Wonder, Buddy's Improver. A few choice September boars for sale. The "Always Better Kind."

C. W. HUFF, MONDAMIN, IOWA.

BRED SOWS---ANGUS BULLS

WE have thirty head of well-bred Duroc Jersey sows, to farrow in May, for sale, at \$35 to \$50. Also a few fancy bred Angus bulls. Address

WHITE BROS., PERRY, IOWA.

FOR SALE---20 FALL SOWS

Bred to the champions, B. & C.'s Col. and Crimson Wonder III. They are sired by B. & C.'s Col., Col. S. and McNeil's Model. Price \$50 to \$65. First come, first served.

Ed. A. Baxter, Pawnee, Illinois.

Address R. L. Comer, Carlinville, Illinois.

Real Reds to "Show You"

OUR crop of spring boars (sows are all reserved) carry the blood of King of Cols., Ohio Chief, Model Chief, etc., through strains of prize winners. They are right. Orders booked now.

E. W. Davis & Co., Glenwood, Missouri.

MIDLAND Herd Duroc Jerseys. Bred sows all sold. Yearling boar for sale. Orders booked for spring pigs, July delivery. S. J. Butts, Mason City, Ia.

When writing to advertisers please mention this paper.

DUROC JERSEY SWINE.

MODEL WONDER Fall Boars For Sale

We have a few very choice fall boars for sale. One herd header of much quality out of Chief's Jewel, champion sow Iowa State Fair, 1909. Others out of Proud Advance and Top Notcher Again dams. For prices and description address

HANKS & BISHOP,
NEW LONDON - IOWA.

HIGH CLASS DUROC JERSEY BOARS

I have five September boars sired by the sweepstakes boar, Crimson Wonder Again, and out of H. A.'s Queen for sale that are sensational herd boar propositions. Also a number of other good boars. Write or come and see me.

W. M. SELLS, INDIANOLA, IOWA.

Helen's Chief High Notcher

and Glad Col. head my herd of Durocs. Write for what you want.

M. A. KRASCHEL, MACON, ILLINOIS.

DUROC JERSEYS

Thirty fall boars and ten gilts sired by Col's King, dams by Arthur's Choice, Proud Advance, Inventor, Commodore and Tokio Paul. Would also sell Arthur's Choice, the pig that cleaned the first prizes at the Illinois State Fair, 1907. This stuff is growthy, but not fat. Arthur L. Parks, Leland, Ill.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address

C. C. Cushman, Mgr., Chillicothe, Ohio.

COL. J. CASTEEL Offers Fall Boars

Ten fall males ready for service, by Champion Paul II. Dams of choice breeding. Will price them worth the money if ordered at once.

COL. JAY CASTEEL, Cambridge, Ill.

For Sale--12 Extra Choice Fall Boars

If you need an extra good Duroc boar we have them by Manley Orion's Son by Manley Orion, dam by Keep On II. These pigs are out of dams by Educator, Champion Paul and others. Will be priced worth the money and are fit for immediate service. Address

GEO. L. MILLER, COAL VALLEY, ILL.

Care of Buck & Miller.

Do You Need a Boar

I HAVE good ones by S. E.'s Model 50743 by Model Chief, dam by Advancer. The dams of these boars are by Keep On III, Proud Advance and other equally as good. These males have quality and some are fit to go into the best herds in the land. Will price them cheap. My spring pigs are extra good, and of the best breeding. Write me or come and see. Please mention The Homestead.

S. E. EAKLE, PROPHETSTOWN, ILL.

FALL BOARS FOR SALE

BY O. & L. 2341, a fine bred Col. and Protection boar of show yard quality; dams by Buddy K. IV. and Ambition. A few fall gilts, either open or will breed them. Also have 3 Scotch-topped Double Standard Polled Durham bulls for sale. Please mention The Homestead. Address

MENAUUGH BROS., MAZON, ILLINOIS.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY.

Write Your Wants.

MODEL TOP

HEADS herd, assisted by King Wonder. Both of these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky.

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE



My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.



WAYSIDE HAMPSHIRE

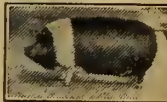
WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.

MIKE SHARP - COAL VALLEY, ILL.

STONE STOCK FARM HAMPSHIRE

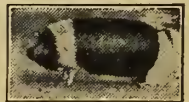
MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper.

E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.



HAMPSHIRE Swine

I WON champion on pen of Hampshire barrows; also champion on single barrow at the 1909 International Stock Show. 30 sows bred for March, April and May farrow, for sale. Also breeder of Short-horn and Double Standard Polled Durham cattle, Bourbon Red turkeys, Pekin ducks, and Barred P. Rock chickens. Write me. John Goodwine, Potomac, Illinois.



HAMPSHIRE Swine

WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.

25 Head of Spring Boars 5 Head of Yearling Boars

All good ones and guaranteed breeders.

Prices reasonable.

H. D. DeKALB - DeKALB, IOWA.

CHESTER WHITE SWINE.



CHOICE FALL BOARS FOR SALE

THEY are of the same prize-winning blood as those with which I won 141 prizes at five big state fairs of 1909. Low prices to quick buyers, as I must make room for the spring crop. D. H. LEWIS, GENESEO, ILL.



35 CHESTER WHITE BOARS AND SOWS

FOR SALE--Extra good ones, sired by Buster 19055. A son of Combination out of daughters of the noted prize winner, Modeller. Prices reasonable. John F. Holst, Jr., Denison, Iowa.

O. I. C. WHITES, Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

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I HAVE a few choice fall boars, old enough for service, and will quote low prices on them. Sows and gilts are all sold.

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SPRING yearling sows bred for June and July farrow; tried sows bred for August and September. A few yearling boars, 50 choice September, 1909, boars and gilts, and boars and gilts of March and April, 1910, farrow, to be delivered at 3 to 5 months old. Blood of P. W. Giant, Hadley, Jumbo and Victor. Foundation stuff or new blood.

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THE LARGE TYPE, WITH QUALITY COMBINED. 275 SPRING BOARS AND GILTS, and a number of fall boars for sale. These are sired by W.'s Major 45234, Young Look 47722, Pawnee Price 47721 and Villisca Chief. SPECIAL PRICES. We are offering spring boar pigs and gilts at \$25 each, and we guarantee satisfaction. Also some extra choice fall boars. Address

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HEADED by A Wonder, most noted big boar living. Sows bred to him for September farrow. Big-type spring pigs by other good sires.

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12 Fall Boars--25 Spring Boars

I AM offering a splendid lot of big-type, big-boned fall and spring boars for sale, sired by B. Wonder, A Wonder, Orange King and Big Ex. Address

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I am now offering some splendid fall boars for sale sired by my noted show and breeding boar Big Victor and out of my best sows. Address

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I AM offering the above 3-year-old herd boar for sale; also 18 fall boars and gilts at bargain prices. Address Herman Baltz, Fremont, Neb.

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Ginger up your herd with a Berk. Best of all breeders and brings best prices and profits. We have from 300 to 700 always on hand. All ages. Write us.

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SINGLY or in ear lots. Best of breeding, good individuals and splendid milkers. These cattle are priced to sell.

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1901 The world record breakers at the Pittsburg Fat Stock Show	\$21.50 per cwt.
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1909 Champion two-year-olds and reserve Grand Champions at Chicago	14.50 per cwt.
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Average	\$14.30 per cwt.

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120, the tops of Great Britain's and America's best, and the blend that comes from the uniting of both; 33 Ericas, the grandest offering of this, the greatest tribe of the Aberdeen Angus breed that has ever been offered in America in any one sale; 18 Blackbirds, representing all the branches of America's most noted family; 12 Heatherblooms, representatives of this family which is noted for great scale and quality; 20 Prides of Aberdeen, members of this family which have made Angus history from Wm. McCombie's day to the present time; 12 Queen Mothers, descendants of the grand old cow, Queen Mother, the queen of all Angus cows; last, but not least, 25 representatives of the good old standard families, the mothers and sisters of our prize-winning steers, and as the ultimate of all beef is the barrel, what more do you wish than an opportunity to secure foundation females that have produced the grandest specimens of prime beef in America. If in need of a herd bull or foundation females or fresh blood to add to your herd, no matter where you are located in this country, it will be to your interest to be present at this sale, as the large offering insures bargains in plenty.

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COMPRISING the allied herds of P. J., M. H. and Mike Donahoe, of Holbrook, Iowa, and P. Leahy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

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Angus Bulls

Sired by Scottish Hero 52494 and Glen's Prileno 91606. In ages from 10 to 20 months. In good, useful condition for the buyer. If you want bargain prices on bulls write me.

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HEADED by undefeated Oakville Quiet Lad and Thickset Blackbird. 10 young bulls by Glenfold Thickset, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thickset, priced right for quick sales. Farm in city limits. O. V. Buttles, Muskegon, Ia. W. P. Brown, Herdsman.

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HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, IOWA CITY, IOWA.

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by imported Ideal of Stranden 28158 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. R. Wilkinson & Sons, Mitchellville, Ia.

ABERDEEN ANGUS BULLS I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 31 and my double-bred Trojan Erica bull, Erica's Equestrian; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

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TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Brawith Lad. For description and prices, address

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SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

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FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

SCOTCH and SCOTCH-TOPPED BULLS

I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athene. Others that are strictly choice. Also several Scotch-topped bulls by Lord Muttineer. Prices low if taken soon. PERRY O. BROWN, LAMONI, IOWA.

FOR SALE QUICK

A "REAL" herd header, red, "Cruckshank Secret," a 22 months old, bred by Chas. C. Norton, son of his noted "Gloster's Favorite." You will buy if you see him. Write us now for particulars. H. S. & W. B. Duncan, Clearfield, Taylor Co., Ia.

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FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Wm. M. Smith & Sons, West Branch, Iowa.

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WE are offering a splendid red roan Scotch bull for sale sired by Victor's Roan Duke, dam Pink Cup by Imp. Gold Cup. Address

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Three Pure Scotch Bulls For Sale

FOURTEEN to 18 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruckshank Rosemary. All got by Imp. Kinellar Stamp 159277. T. A. DAVENPORT, BELMONT, IOWA.

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns.

HERD headed by Hampton's Connellor and The Drammer. I have a number of very choice young bulls for sale. Address

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SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

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YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk, or weigh in the milk for the herd. BLACKMER & NELSON, Albert Lea, Minn. Farms 1 and 2 miles from town.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.

W. J. HATHER, ORD, NEBRASKA.

S. H. THOMPSON'S SONS

IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

SHORT-HORNS AND POLAND CHINAS

Five Scotch and Scotch-topped Short-horn bulls. Three extra Poland China fall boars. Bulls are sired by Victor's Roan Duke, Lavender King and Ury Chief. Boars by Wade's Jumbo and Allerton Chief. Best of individuals and are priced worth the money. Address

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I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

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Scotch and Scotch-Topped. From good milking dams. Prices reasonable. F. M. Hall, Friend, Neb.

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58--HEAD--58

CHOICE OF QUIETDALE SELLO Tuesday, May 31st

on the farm near Waterloo, Iowa.

17 BULLS—herd bulls and comers. 41 FEMALES—a dozen matrons with calf at foot, cows and heifers safe in calf and open heifers. They are breeding cattle and show cattle with quality from start to finish. None better are left in the herd. Many choice things are by our great Ebony of Quietdale. Catalogs are now ready. Address

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Spartan Kid 2d 288181 FOR SALE

I am offering my splendid three-year-old herd bull, **Spartan Kid 2d**, for sale, and he is one of the best Hereford bulls in Iowa. Also eight choice young bulls for sale. Write or come and see me. Please mention The Homestead.
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WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.
Warren Gammon & Son, Des Moines, Iowa.
Originators of Polled Herefords.

15 HEREFORD BULLS

FOR SALE, from 12 to 30 months old, sired by Advance 129531 and McKinley 95219. Address
Z. T. KINSELL - - MT. AYR, IOWA.

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FROM 12 to 24 months old, sired for the most part by FAST FREIGHT. Good individuals, prices right. G. G. CLEMENTS, ORD, NEBRASKA.

Polled HEREFORDS

THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.
J. W. WYANT, BLYTHEDALE, MISSOURI

POLLED HEREFORDS

OF both sexes. One herd bull and some horned cows bred to Success 4th, one of the best bulls of the breed. W. H. Campbell, Grand River, Ia.

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10 HEAD two-year-old, blocky, well-marked, good colored bulls; guaranteed breeders. Strong individuals for the range. Also 12 head 1 year old, same breeding. Sired by Columbus 54th.
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ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otee and other cows equally well known. Write your wants; we can suit you. A. G. Abney, North Lomp, Valley Co., Neb.

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HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address
John C. Gabring, R. 1, Box 29, Marengo, Ia.

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POLLED DURHAMS

FOUR choice two-year-old heifers, sired by Agate's Don Joe by Royal Duke. Good individuals. Splendid milking strain. Priced reasonable.
Walter Johnson, Dorchester, Nebraska.

Ottumwa W. B. Bonfield, Ottumwa, Iowa, breeder of Double Standard Polled Durhams. Bulls and heifers for sale. Fair prices.

Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. Wm. Barrans, Lenox, Iowa.

When writing mention this paper.

Public Sale of Choice Short-horns FRIDAY, JUNE 3, 1910,

IN THE SALE PAVILION, MITCHELL, S. DAKOTA

THE
CONSIGNORS

N. A. LIND,
H. G. M'MILLAN & SONS,
WALPOLE BROS.,
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THIS SALE WILL INCLUDE

20 Bulls--20 Cows
Of Good Quality
and Desirable Breeding

Being the produce of some of the best Scotch bulls now in use. The sale will be under the management of the American Short-horn Breeders' Association. For catalog, write

B. O. Cowan, Ass't Sec'y, 13 Dexter Park Ave., Chicago
Col. R. W. Barclay, Auctioneer.

Attention is called to the sale of J. G. Biller & Son, Crofton, Neb., June 2d.

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HOLSTEINS—BULLS, COWS AND HEIFERS Thirty-five bulls from 4 to 18 months old, at \$40 to \$100; 15 bull calves, 1 to 4 months, \$30 to \$50 each; 50 cows, 3 to 7 years, all milking or soon fresh; a lot of them in calf to some of the best-bred bulls in the East, and grand, good individuals, with producing qualities. Prices, \$150 to \$200; 30 heifers and heifer calves from 4 months to 2 years old, prices, \$60 to \$150. Come to the Holstein headquarters of the West and buy the best. Every animal tuberculin tested and sold under a positive guarantee. Address **ROCK BROOK FARMS, Henry C. Glissman, Proprietor, Station B, Omaha, Nebraska.**

LARGEST HOLSTEIN AUCTION

EVER held. **June 21, 22, 23, 1910.** Over 300 head Peaches and Cream, bred direct from the world's champions. For information, watch The Homestead or write R. E. Haeger, Algonquin, Ill.

HIGH GRADE HOLSTEINS

COWS or heifers in any number. They show quality and breeding. **NO CHEAP STUFF.** State exactly what you want.
RIVERSIDE STOCK YARDS, Algonquin, Ill.

Buy a Good One

I can sell you a Holstein bull which will sire high producers. It's bred right in them. Let me tell you about it.

JOHN ERICKSON, WAUPACA, WIS.

HOLSTEIN BULLS

TWO to twelve months old; our own breeding. Dams give from eight to twelve thousand lbs. milk per year under ordinary farm conditions. Sire, Sir Netherland Cornucopia, whose two nearest dams averaged thirty lbs. butter and 6 nearest dams averaged twenty-five in seven days. Why buy picked up culls from a dealer when you can buy fashionable, high-class stock from a breeder? Let us send you our price list. We price them right.

WOODLAWN FARM, STERLING, ILL.

MONONA FARM HERD

OF pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

F. W. ALLIS, MADISON, WISCONSIN.

HOLSTEINS Carload choice females; cows, springing heifers, heifers not bred. Address **M. B. Wood, Mankato, Minnesota.**

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30 Holstein Bulls for Sale

10 HEAD are from A. R. O. dams and balance are from dams not tested. These bulls are in age from five to fourteen months; well-grown and first-class individuals, from dams that are kept for profit. These bulls are sired by two sons of Homestead Jr. DeKol, the sire of Grace Payne 2d's Homestead, world's champion cow. Balance by Johanna Rue, Sarcastic Lad, 12 A. R. O. daughters and close up in breeding of Colantha 4th Johanna. Prices low according to stock. Mention this paper when inquiring. For information, address

L. G. LEGLER, JUDA, WISCONSIN.

HOLSTEIN

Cows and heifers any age.
Bulls fit for service.

W. R. GATES, Fort Atkinson, Wisconsin.

ELLIOTT'S Holstein-Friesians

YOUNG bulls from A. R. O. dams, for sale. They are our own breeding and will prove money makers for you. Buy the best and succeed.
JESSE R. ELLIOTT, WOODWARD, IOWA

MAPLE LANE Holsteins

EIGHTY HEAD IN HERD.

WE GUARANTEE OUR STOCK.
T. J. HARMORE, MONROE, WISCONSIN.

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HOLSTEIN-FRIESIAN CATTLE.

Holsteins For Sale

CARLOAD grade heifers. Very even lot from 1 to 1½ years old. Well bred with lots of quality. A choice lot.
W. M. EVERSON & SONS, Lake Mills, Wis.

AYRSHIRE CATTLE.

Ayrshire Cattle

Some of the best young things we have ever offered. They are bred at the top.

FRED TSCHUDY, MONROE, WISCONSIN.

GUERNSEY CATTLE.

SUNNY VALLEY GUERNSEYS

Males and Females for Sale
WRITE TODAY.

W. M. JONES, WAUKESHA, WIS.

GUERNSEYS

FOR SALE—I am overstocked and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the island. Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 9386, a son of Stranford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale.
Ben Clark & Son, R. 1, Whitewater, Wis.

WAUKESHA GUERNSEYS

Bred for Production.
Ninety Head in Herd.

A. W. and F. E. Fox, Waukesha, Wis.

Brook Hill Farm PURE-BRED GUERNSEYS

A FEW YOUNG BULLS FOR SALE.
SEND FOR SALE LIST.

David W. Williams, Supt.
GENESEE DEPOT, - - WISCONSIN.

GUERNSEY HERD BULL

To avoid inbreeding I am offering my herd bull, Bonnilus, for sale. He has one full sister that made 350 pounds fat as a two-year-old and seven sisters that have made more than the requirements for Advanced Register.
RALPH TRATT, WHITEWATER, WIS.

HORSES AND JACKS.

I STILL HAVE TWENTY-FOUR BIG, HEAVY PERCHERON STALLIONS and BELGIAN STALLIONS

WHICH I am very anxious to sell. Am offering the most tempting prices for big stallions that have ever been offered. Have had nice trade in heavy stallions this season, but still have on hand a larger number than I wish to carry over, and those who need big, heavy, first-class, sound stallions, cannot afford to miss seeing mine. These stallions ought to be sold; they should not be standing idle this season.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of

PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

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I AM offering eight head of Shetland ponies for sale at from \$65 to \$125. Also one 5-year-old black Shetland stallion and one 2-year-old Percheron stallion. Address H. W. Littleton, Harlan, Iowa.

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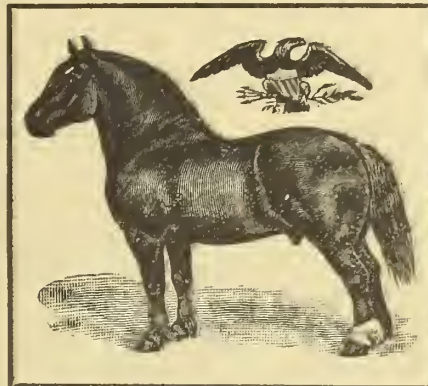
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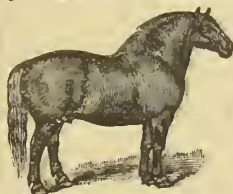
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STALLIONS all sold. Can spare a few more mares, your choice from thirty. I have sold over one hundred head this past season, and will return from Belgium, Sept. 1st, with another supply to refill all my barns.

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50 Stallions—35 Mares.

We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold, come and see Keiser's Percherons at Keota.

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THIS season. I still have twenty-four extra big ones, the best that can be found in the United States. Also twenty medium-sized, which I am offering at the most tempting prices that have ever been made for good, first-class Jacks. You cannot afford to be without one. Come at once. Write for catalog. Address

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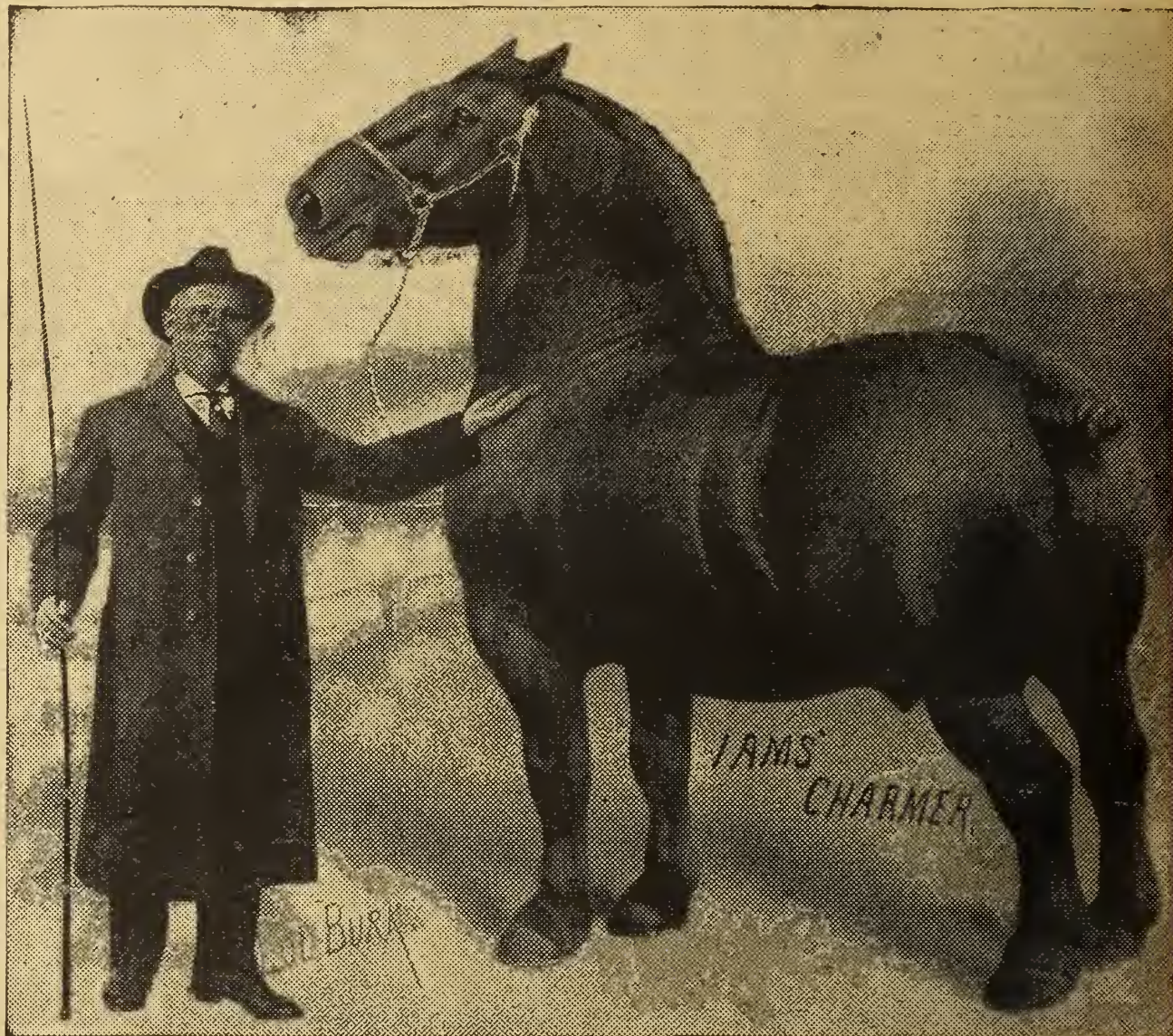
on his Imported "1909 Show Stallions" and horses bought for "1910 Show Stallions and Business Stallions," and his "new suit" of "selling clothes," will sure fit all buyers. Prices on all Iams' Imported "Show and Business Stallions" reduced \$200 to \$500 each.

IAMS SELLS SHOW HORSES AT THE SAME PRICES

"others sell culls," and they "hypnotize" "car loads" of "Ikey Stallion Buyers" and make them "sit up and take notice" and buy Imported horses of IAMS. His big "black boys" are "ripe peaches," and all must be sold. Get on to "Iams' money-saving game." Buy stallions today. Get stallions ready for "spring business," Ikey Boy. Be the "early bird;" they get the business and choice of Iams' "black boys" and "top-notchers." "Leave your happy home," visit the "peaches and cream" stallion man, and save \$1,000. Every day is a "bargain day," a "horse show day," and a day of "profit and pleasure," at IAMS' STALLION EMPORIUM, the largest in the United States, at St. Paul, Neb. You will positively see here more imported stallions—"top-notchers," "medal winners," "ribbon grabbers" and everyday business horses—than at any "horse plant" in the United States, and double all others in Nebraska. Iams backs up his "ads" and catalogue with a "\$500 bonus" (no others do this). He gives five of the best banks in Nebraska for reference.

IAMS' 70 KINGS AND QUEENS OF PERCHERONS AND BELGIANS

are all "top-notchers." No International "tail-ends," no "auction stuff," no "pick-ups" or "peddlers' horses," but the best bunch of big-boned, big drafters of quality and finish in the United States, and in the "pink of condition." Iams is a "big fly in the ointment" in the "horse business." He "sets the pace" for all competitors, "Ikey Boy." Buy an imported stallion of Iams, the horseman "who does things." Get into Iams' Band Wagon; don't be "side-tracked" by "hammer knockers." Ikey Boy, "waltz me around once again" and land me at IAMS' "four importing barns" and box office, filled to the roof with big "black boys" at bargain prices. Iams is the only horseman who really has "the goods" as advertised. Mr. Stallion Buyer, "come on down town."



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is opened up for sale (not seen before). All of Iams' 1909 "Gold Medal Prize Winners" and 1st Prize Stallions at Paris and Brussels and leading European Horse Shows and 40 TOP-NOTCHERS, bought for 1910 Horse Shows in the United States. They are all in his barns and for sale at reduced prices, \$200 to \$500 each.

All in "The Pink of Condition" and Fully Acclimated.

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He Saved \$300,000 to Stallion Buyers in 1909

by selling stallions direct to the people, saving all the middleman's profits. Iams is an expert horseman. He knows the "top-notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin'-and-a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 and \$4,000. "Son Ikey," form your own "stallion company." Visit Iams' town of barns filled to the roof with big "black boys," the "best ever"—"Iams' kind." His 70 stallions, 2 to 6 years old, weight 1,700 to 2,500 lbs., 90 per cent blacks, 50 per cent ton horses, are a horse show better than the International.

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Choice of His Gold Medal and Prize Stallions and a Better Stallion at \$1,000 to \$1,500

(bar ten), than are being sold to farmers' stock companies at \$2,500 and \$4,000; with 60 per cent breeding guarantee, with freight and fare paid by IAMS. He can furnish buyers \$1,500 insurance. You say, "Why can Iams sell better stallions at half the price of others?" IAMS buys and sells every stallion himself. He buys stallions by special train loads, 200 at a time. He speaks the languages, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick" salesman \$100 to \$1,000 to sell you a fourth-rate stallion. He has no two to ten men as partners to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions. Iams has all his largest and best horses on hand yet (not seen by the public before)—now on sale. He sells stallions by "hot" advertising, and having "the goods" to make every statement good. Iams sells stallions so good that they do not need a "slick" peddler or the "auction block" to sell them. Special reduced prices made at Iams' barns only. Iams will save you \$1,000 in commissions and middlemen's profits. "Papa, dear," buy me an imported stallion of Iams. He will make me \$1,000 in six months and be good for twenty years. Iams has the kind that lay these "golden eggs." Don't let one of these "auction men" "hand you a lemon," with one of these so-called American full bloods with questionable breeding.

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ST. PAUL, NEBRASKA.



VOL. LV. NO. 21

DES MOINES, IOWA, MAY 26, 1910

WHOLE NO. 2746



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is the world standard of protection; not the cheapest but the best. Its patent couplings, bronze and platinum points and ground connections form a *continuous* channel, by which electricity passes off to the earth as harmlessly as water from your roof. Every foot *guaranteed*.

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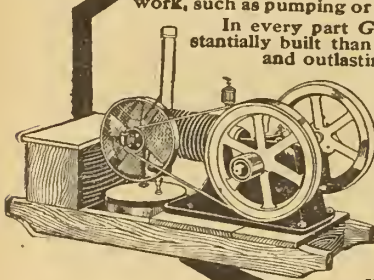
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Gas
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Fuel saving is a big item with the Gilson "Goes Like Sixty". Automatic gasoline control supplies fuel according to the work on hand. For heaviest work it costs only 1½ cents per hour per horse power. Light work, such as pumping or separating can be done at ½ cent per hour.

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This is the only air cooled engine successful in operating binders and headers. Saved over \$2,000,000 worth of crops last year. The cooling system is patented. The Gilson "Goes Like Sixty" is the most reliable and economical engine for all-around work on the farm.

Write for Catalog Don't buy an Engine without getting this catalog. It gives lots of valuable information about engines, and describes our full line. 16 sizes, 1 H.P. to 27 H.P., water or air cooled. Write to-day.

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972 Park St. Pt. Washington, Wis.

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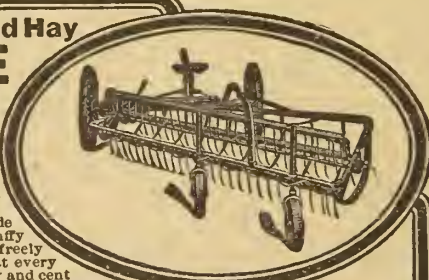
The Dain way is to air cure hay with the Side Delivery Rake by turning it into continuous fluffy windrows through which drying wind and air will freely pass. The Dain Side Delivery Rake insures that every swath of juice and goodness, nutrition and dollar and cent value will be dried right in. It's the rake that handles the hay gently without bruising or breaking off the tender leaves. It sends the hay dry to the barn with all its natural green color and richness.

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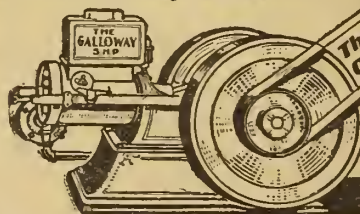
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Write today for my beautiful new 50-page Engine Book in four colors, nothing like it ever printed before, full of valuable information, showing how I make them and how you can make more money with a gasoline engine on the farm. Write me—

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A Kerosene Plowing Engine

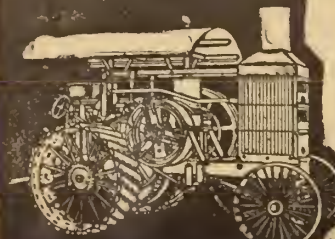
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Our Plowing Engine does the work of 18 to 20 horses, and eats nothing when standing idle. It is also suitable for discing, seeding, harvesting, threshing; corn shelling, shredding, grinding; road grading, hauling, etc. Hundreds in successful operation.

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They are made in many artistic patterns, of rust-resistant materials, and are so strong that they will require no repairs for years. Our special construction—cabled line wires and corrugated pickets—absolutely prevents the fabric from becoming unsightly on account of sagging or slipping of joints. Cyclone Farm Gates are made of the strongest material possible to secure for this purpose—special high carbon tubular steel. This makes a rigid durable gate that is light on hinges. The hinges, latches and all fittings are of malleable iron to insure against any need of repairs. By writing to-day for our catalogue you will obtain proof that it will pay you to buy Cyclone Fences and Gates.

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DOWDEN MFG. COMPANY

1011 Elm Street, Prairie City, Ia., U. S.

Send for Free Catalogue

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, MAY 26, 1910.

Sensible Corn Cultivation Methods

THE ancients had a proverb, "The education of the child begins with its grandparents," and we, their descendants, may well be glad that in those days such sayings of wise men were pondered, and proved effective guides for personal conduct of the individual.

That the principle suggested by the saying is essentially true is recognized by all who have studied the inheritance of acquired characteristics, as shown in the human family.

And yet, many farmers who would readily admit the truth of the above adage, as applied to themselves or their families, will smile dubiously when we state that the most sensible method of corn cultivation is that which begins a year or more before the seed is planted.

And while it may be getting somewhat away from the subject, we consider this preliminary preparation so vital to the attainment of large yields that brief space may to advantage be given it here. Several years of experience in producing crops of corn that would ordinarily be called "big" make us realize that crop rotation is vital, and that it is absolutely impossible to do too much in the way of preliminary preparation.

Given ordinarily fertile corn-belt soil, large crops of corn may be attained by—first, good preliminary preparation of soil; second, well-bred seed of good vitality; third, thorough and adequate subsequent cultivation.

We arrange our plan of rotation so that a large part of our acreage in corn each year is fall-plowed stubble, and fall or spring-plowed clover sod. If possible the stubble is always fertilized with stable or barn-yard manure just previous to plowing in the fall, as we consider it far better to chance our ability to destroy the grass, (growing from seed in the manure) than to do without the extra humus and plant food supplied by the manure. The harrow used on the fall plowing as early as possible in spring, followed by alternate disking and harrowing until planting time assure a clean field for the planter, and plenty of moisture to germinate the seed in the driest spring. On the spring plowing we follow the plow with the drag, then disk and harrow as time permits until planting time, and we have convincing evidence that no part of the work with the corn pays better returns than this which is done between plowing and planting, largely because it makes the subsequent cultivation so much more effective.

But the preliminary work has been finished this year, the seed has been selected and planted, to endure the test or caress of Mother Earth, as the season may dictate, so we pass to a discussion of our third essential, more properly associated with our subject, viz., subsequent cultivation.

And just here, to avoid the charge of egotism, the writer wishes to admit that his experience and observation have both taught him that there are different methods of cultivation, all or any of which may be very successful under proper conditions. It is not advisable to attempt to lay down any hard and fast rules, in fact, we do not believe that such rules can be followed by a progressive, successful farmer. It's the ability to change methods to meet changed conditions that makes for success in farming, and it's the farmer who cultivates in such a manner, so and so, because he has studied his field and knows its needs, who produces a crop regardless of unfavorable conditions.

However, there are certain underlying principles, an understanding of which enables the corn grower to devise the treatment to fit every condition that arises. And while we have neither space nor inclination to discuss here the principles applying to corn cultivation—we sum them up as follows, and any corn raiser who remembers them in this way will seldom require any more scientific statement. First, the corn plant must drink, second, it must eat, third, it must breathe, if it is to grow as we desire. Furnishing the best

C. Ray Moore, Ringgold Co., Ia.

possible conditions in which it may perform these functions is the business of the corn grower, and the real purpose of all cultivation.

The enormous quantities of water drank up by the corn roots each season, (I believe it is claimed that each acre requires something like 300 tons of water per season) make it necessary that we conserve the soil moisture, retaining it near the surface of the soil for the use of the plant.

And as experience has shown that this water readily escapes by evaporation through a crusted surface, we see the need of preventing formation of a crust over the surface of the soil. Thus, we need frequent stirring of soil at surface, even though weeds are not visible in field.

One of the hardest questions with us has always been, "When shall we use the harrow after planting?" There seems always a time, between planting and the time the corn is ready for plowing the first time, that a crust has formed over the field—usually after a shower, followed by a hot day or two. Our problem has been, to find the best time to use the drag to prevent or break this crust. The fact that our soil is upland, somewhat rolling, and consequently more or less subject to washing, has had a tendency to make for harrowing immediately after the planter. But for those whose ground may be foul, even after good preparation, we think it frequently advisable to follow the planter, say in a few days, when corn is nearly up, with the cultivator, plowing somewhat deep and close to row, following this with the harrow, crosswise of the field. One such cultivation, like the "stitch in time," frequently counts for more in weed destruction, than a half dozen later cultivations made after the weeds have attained an advantage over the corn plants. We even find it occasionally advisable to harrow corn after it is up, to prevent crust formation, but this is a rather ticklish prescription, and we insist that the weather, stand of corn, and the condition of soil are right before we administer it.

As to the cultivations, the first must be regarded as by far the most important; if improperly done, each subsequent one will be more or less a failure. "Deep and close the first time" is about the only hard and fast rule we follow in corn culture, for we want to leave the soil mellow and the soil near hills free from weeds, as we find it impossible to get really close to the hills without injuring roots after the corn plant has attained any size. And right here, too, we would say that our use of the word deep may be misconstrued, as we use the small shovels, and each year finds us more firmly committed to the practice of working only the top three or four inches of soil.

Of course, plowing close in small corn means plowing slowly, and if a neighbor across the fence is plowing, or shall we say covering, seven or eight acres per day on his first time over,

it takes a philosopher to withstand his pleasantries (?) regarding your speed, but stick it out and hoe your row clean. You'll have all the fun at his expense later on.

After the first cultivation, we aim to plow only so deep as will suffice to check young weed growth, and keep surface mellow. The number of times we cultivate a field is limited only by our ability to cover the ground. We do not wait for weed growth to start, or crust to form, but keep pegging away, everlastingly, and it will take more than an argument to convince that this doesn't pay. In recent years we have cultivated from five to seven times, and upon fields, where, for experiment, we have plowed a part five times, part six, and part seven, the eye could easily discern to the row (in the fall) where each cultivation ended, and we find the yield increasing almost exactly in proportion to the increase in cultivation. Sometimes we indulge a grim laugh at our own expense when we remember how we used to think that three or four cultivations were "all any field needed." Now we rather sorrowfully put away our cultivators when the corn gets too high for cultivation.

This year we are planning to follow a custom we have seen successfully followed by others, and use a seven-shovel plow, or an A harrow between the rows if the season is dry in late July, as usually it is.

In summing up, then, the most sensible method of cultivating corn, as the writer sees it, is to have for foundation a fertile field, whose supply of humus has been kept up; well prepared, to admit of successful planting. Then get strong seed, of a high-yielding variety, that labor may not be thrown away. Lastly, and of equal importance, thorough, adequate cultivation as noted above and do not fear to err on the side of too frequent cultivation—99 out of every 100 fields suffer through inadequate stirring of the surface soil.

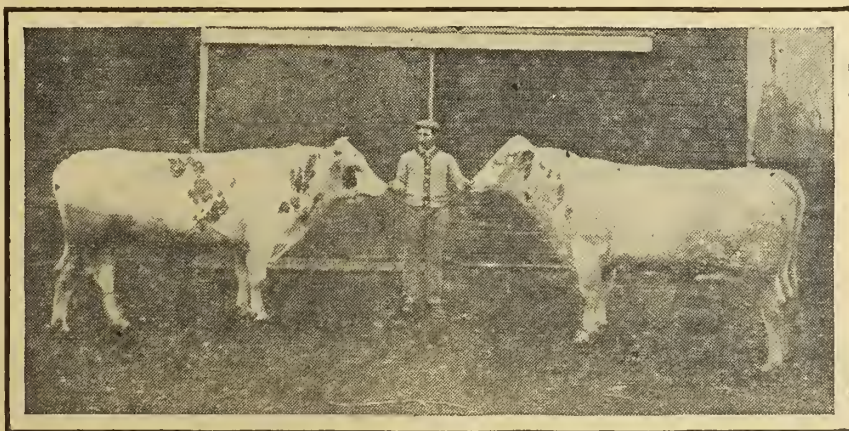
And while it is too late to prepare the seed bed or test the seed, remember that corn must be grown next year, and it is not too early to plan and prepare for the 1911 crop, and proper attention to the three essentials we have outlined means successful corn production, this year or any other.

LIVE STOCK AND WEEDS.

Ordinarily there are two arguments in favor of the policy of feeding a considerable part of the grain and roughage raised on the farm to live stock, rather than to market it direct for cash. The first one is that the fertility supply is in this way maintained, while secondly, the skilful man can realize a larger profit out of his products when fed to live stock than he can by selling them direct. Each of these arguments stands alone, copper riveted and bullet proof, but there is, nevertheless, a third reason why every farmer should handle considerable live stock. We refer to the effect of the policy of keeping stock on weed destruction.

We would like to invite our readers to make an examination into this question for themselves. Go into any neighborhood you choose and select the successful farmer, the one whose main effort is devoted to live-stock raising, and we venture to say that you will find that his farm is much freer from weeds than are those devoted mainly to grain growing for cash. Even where legumes are given their place in the rotation to keep up soil fertility the number of varieties of weeds multiply year by year, while the number of each species generally increases rapidly.

We have in mind one instance where more than a decade ago a large corn-belt farm was operated under the grain-growing plan in conjunction with clover, a crop of which was plowed under every four years. Under this policy the land became so foul that the plan had to be abandoned, and today this farm



HENGERVELD BEETS AND WOODCREST HENGERVELD DE KOL.

These two sons of Hengerveld De Kol are at the head of Mr. R. E. Haeger's herds. Woodcrest Hengerveld De Kol is out of the show cow, Pleasant Valley Kate 2d, butter, 21.4 pounds. He was also first-prize two-year-old bull at the National Dairy Show, 1909. Hengerveld Beets is out of Aaggie Lily De Kol Beets, butter, twenty-one pounds, and a daughter of Paul Beets De Kol, giving him the direct cross of the two greatest producing sires in the world. He was also a winner at the National Dairy Show, 1909. In the Haeger sale will be found bulls and heifers sired by these, and many cows and heifers served to them. Such stock is worth going a long way to see and buy. See advertisement of Mr. R. E. Haeger, Algonquin, Ill., on page 30.

(Concluded on page 5.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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UNTHRIFTY PIGS.

The weaning period is an important time in a pig's life, and as there will be millions of pigs weaned in the central West during the next few weeks, a word on how to handle them might help a few of our readers over the hard places. We have always held the opinion that a pig should be liberally fed from the time he is two months old until he is four months old, and after that a little grain in conjunction with plenty of pasture ought to take him through to a weight of 125 pounds at six months in good shape.

Just as the pigs are coming up to the weaning period it ought to be taken for granted that they are more or less infested with internal parasites, and handled accordingly. A few cents spent on a good worm remedy may easily save anywhere from \$100 to \$500 in the feed bill on a bunch of 100 pigs. There are a number of worm remedies, but we have never used one that is more effective than santonin, using it at the rate of practically one ounce to 100 growing pigs. A good way to feed it is to place the santonin and thoroughly dissolve it in the water which is to be used for making a given batch of slop. After it is thoroughly dissolved and mixed, then add the mill feed or ground grain and you will have a perfect distribution of the santonin. So much the better if the pigs can be made to miss a meal beforehand.

Have plenty of trough room and have the slop well distributed, and follow this up by letting all the pigs in at one time. It will not do to let them come through a hole one at a time, because those that arrive first will get more than their share. In a week or ten days repeat the dose and, of course, as the pigs get larger, if it seems necessary to use the same treatment, a rather larger proportion of santonin may be used. One hundred pigs weighing on an average of 125 pounds would easily stand two ounces of santonin at a feed. Three or four treatments at intervals of one week or ten days ought to absolutely remove all parasites.

Then the skin of a hog needs a little attention, and it is surprising how often dipping or spraying a bunch of pigs will contribute to their thrift. For this purpose the coal-tar preparations ought to be used. Those who do not have a dipping tank will find it an exceedingly simple matter to round up their pigs into a shed and use a spray pump or sprinkling can. Keep the pigs in the same quarters where they are sprayed for an hour or two, so that they will lie down in the wet bedding and get thoroughly saturated with the disinfectant. Sometimes spraying or dipping alone will take the klucks out of an unthrifty bunch of pigs, because no animal can be healthy unless its skin is normal, and this is particularly true about the hog on account of the non-porous nature of the skin.

We have always emphasized the importance of using a little mineral matter for growing pigs, in the form of charcoal, soft coal slack or ashes. These should be mixed with salt and pigs should have access to them at all times. We are well aware of the fact that some swinebreeders regard this as old-fogyism, but we cannot

help but think that when a bunch of 100 pigs will do away with two or three tons of soft coal slack and two or three barrels of salt during the season—we cannot help but think that this mineral matter answers an important function.

SOME GERMINATION TESTS A FARCE.

In view of what has been said in the columns of the press in general during the last few weeks on the subject of testing seed corn, it may be of interest to some of our readers now that the season for testing is over, to look at the problem from a new angle. An Iowa subscriber points out how corn may answer the requirements of law in a germination test, and yet be absolutely unfit for planting. Among other things this subscriber says:

I am in possession of a little first-hand information that may be of interest to some of your readers, and I therefore take the liberty to present a few facts and figures relating to the question of testing seed corn. First, I will tell you about some corn that I purchased from a seed company. This corn was guaranteed to germinate more than 90 per cent and in reality upwards of 90 kernels out of every 100 did grow, so that I suppose as far as the law is concerned the company was safe. But how did it grow? Less than 50 per cent of this seed developed a strong root system, as well as good, vigorous stems. More than 40 per cent of this seed produced either dwarf roots, dwarf stems or roots without stems or stems without roots, so you see where a man would have landed if he had used seed of that character.

Now I will refer to a sample of my own corn, which was picked early and hung up in an ideal place to dry. In this case I tested six kernels out of every ear and 70 per cent of this seed was absolutely good. In other words, 70 ears out of every 100 gave a strong germination test on the six kernels taken from each ear. The remaining 30 per cent was not good. Sometimes only five kernels out of the six would grow, sometimes four kernels, but of course there were instances where only one, or possibly two or three kernels out of the six would grow. This corn I regarded as absolutely unfit for seed, but I took occasion to shell a peck of it from which I tested 100 kernels. You will be surprised when I tell you that 82 per cent of this inferior corn actually germinated, but upon close examination I found that only about 20 per cent of it produced robust roots and stems. Here was a sample of corn that could have been sold under a guarantee that it would germinate 82 per cent, while as a matter of fact it could not under field conditions possibly produce more than 20 per cent of good plants. I leave your readers to draw their own conclusions, and will simply add that to my mind it demonstrates the great necessity and importance of studying not only the percentage of germination, but the character of the development resulting from the germination test.

This is certainly an interesting phase of the seed corn problem, and there is no question in our minds but what the same results have been obtained by thousands of corn growers during the last few weeks. We are rapidly finding out that it is not only important that corn be tested, but that it is important to study the character of the germination from the standpoint of both root and stem development. We venture to say that one outcome of the agitation that has resulted from last October's freeze will be to thoroughly establish the policy among farmers of testing their corn before it is shelled. If six kernels are used, one can get an absolutely reliable check on the soundness of all the kernels on one ear, and as a result of investigating the matter in that way it is possible to select out a supply of seed that will absolutely under normal conditions germinate 100 per cent.

THE SWINE BREEDER'S DUTIES.

The recognized importance of the swine-breeding industry of the state of Iowa, and its more recent highly increased relative value in the catalog of meat-producing lines, leads to added responsibilities on the part of those men, generally classed as breeders, who make a business of supplying farmers with their breeding animals.

There is always a wide range of merit and value between the hog that tops the market and the one which sells at the lowest price. It is a farmer's duty to himself to use every available means leading to the production of the market-topping class. While many factors are involved in the making of the market topper, the real

base upon which all other work must rest is the line of breeding of the herd boars. In that all advancement or deterioration begins.

Here comes the point at which the breeders who supply such boars assume responsibilities that call for a wider range of knowledge on their part than the average of them are inclined to concede. The production of high-class animals possessing inherent qualities for the distribution of merit among their progeny is a scientific profession. It calls for wide knowledge of animal characteristics as well as of methods of care and feeding. The majority of breeders have acquired their knowledge by practical experience. Necessarily, this is a limited means of education that calls for constant research and inquiry along a multitude of lines of thought and action.

These facts make it important that breeders pass by no means of adding to their store of information. The coming summer meeting of the Iowa Swine Breeders' Association, to take place at Des Moines, June 14th and 15th, will present a program of interest. Its discussions will cover almost the entire range of work of the swine producer. It affords an opportunity for learning which it is the duty of every swine breeder to take advantage of. It is a duty which he owes to his patron as well. Great pains have been taken to provide a program replete with matter of intense present interest. Farmers as well as breeders will find the meeting to be one of profit.

VARYING VALUE OF MEAT CUTS.

The average housewife becomes an expert in the matter of selecting meats that are adapted to the needs of the household, but it is amazing how the boys and girls can come to manhood and womanhood without having the slightest idea on quality or values as applied to meat.

Necessarily, the best cuts are taken from that part of the animal that performs the least labor in the course of nature, while the cheap and tough parts are those that perform the work.

The following table, which appears in a booklet recently published by Swift & Company, shows the distribution of cuts from a 694-pound steer (dressed), together with their value at wholesale.

Name	Wt. per lb.	Price	% of total.	Am't.
Ribs	66	\$.17	9.51	\$11.22
Loins	119	.19½	17.15	23.29
Rounds	164	.08	23.63	13.12
Chucks	170	.07	24.50	11.90
Plates	86	.05½	12.39	4.73
Shanks	29	.04½	4.18	1.31
Flanks	27	.05½	3.89	1.48
Suet	28	.10	4.03	2.80
Trimnings ..	5	.04½	.72	.23
	694		100	\$69.99

The ribs and loins furnish the high-priced meat, and why not? Are they not placed on that part of the body where muscles are least exerted? The rounds, taken from the hind quarter, are relatively cheap according to the figures in the above table, the cheapness traceable to the relative toughness of the meat—made so by the movements of the animal.

In a steer of this weight where the meat in each half must sell for practically \$35, one-fourth of the weight of the meat must bring half of this sum, and the other three-fourths the balance. The rib and loin constitute about 26 per cent of the total weight of the carcass.

In these prosperous times there is a tremendous demand for the best steaks and roasts, while the cheaper cuts are shunned and, as a result, prices are looked on as being inordinately high even compared with the relatively high values of meat animals on foot. The extended use of chuck, plate, round and other cheap cuts would reduce the price on the cuts that are now so strongly in demand. This brings it down, after all, to an educational problem, though it is a fact that the cheaper parts are even more nutritious than those that are high priced, though it cannot be denied that the ease with which the best parts are cooked, by boiling, roasting or frying, has much to do with the popularity of those parts.

The American people, upon the whole, need education along this line and, as we see it, the domestic economy departments of the various in-

stitutions in the central West have a great work before them in educating farm women as well as city women in the methods of handling meat more economically.

CUTWORMS IN CORN.

The Michigan station has recently published a bulletin on injurious insects, and among these the cutworms come in for their share of treatment. According to this bulletin cutworms naturally work on sod land, and for this reason it is well to avoid planting corn, tobacco, tomatoes or anything else especially liable to their attacks directly after grass. Then, too, the great majority of cutworms pass the winter in a partially grown condition, and when spring comes, and the sod and roots are replaced by a comparatively smaller number of corn plants, the worms are hardly to be blamed for feeding on them.

Sod land, then, has its disadvantages when used before a crop liable to attack by cutworms. It is also a menace when adjacent to a cornfield, for the "worms" will travel quite a distance from their breeding grounds in order to get at their favorite food. They work at night, traveling on the surface of the soil, and cutting off the plants low down at or just below the soil level. They cut off much more than they can use and then retire before daybreak, burrowing lightly and hiding often near the plant just cut off. One "worm" will forage night after night and destroy many times as much food as could be eaten. One cannot help wondering at its wasteful habits. It has been suggested that the food is cut in order to let it wilt before it is eaten. Wet food does not seem to agree with some caterpillars, neither does that which is too vigorous and turgid. It is not unreasonable to suppose that much of the food is cut in order that it may wilt and be ready for future use, rather than from mere wanton destructiveness. As has been stated, many of the cutworms pass the winter in a partially grown condition, just beneath the surface of the soil. Occasionally, in winter, during a sudden thaw, the larvae will crawl up on top of the snow, being driven upward by the water from the melting ice and snow. In such cases they seldom get back into winter quarters, but perish as soon as it freezes again.

The measure that has been most successful in the past, is the use of poisoned baits, when the trouble is on a large scale. On a very small scale, other methods are more effective. Of the baits used, clover is the favorite. A goodly pile of clover should be cut, and while it is still fresh and green, it should be wet down with Paris green and water, using about half a pound of poison to a barrel of water, then, late in the afternoon, so that it will keep fresh as long as possible, twist bunches of this wetted clover in wads, more or less compact, and throw out over the field at short intervals. If the field to be protected be near a field in sod, then place an extra amount on the threatened side. The cutworms love clover and oftentimes they will hide under such wads of fresh green food in the morning after a night's travel, eating a little of the poisoned food before hiding away. Poisoned pieces of turnip will do if clover is not to be had.

Poisoned bran, sweetened with a little molasses and made into moist balls the size of a plum, has been recommended, and Mr. Sirrene, of the New York State Experiment Station, recommends dry bran mixed with dry Paris green, sowed on the surface of the soil by means of a hand drill. In any case do not use such baits of bran unless stock and poultry are excluded or where partridge and quail are likely to get it, and do not expect to find the dead worms in the morning unless you are willing to sift the top soil for some distance about each bait, for the pests always bury themselves before dying. The only way to judge of the death of the larvae is by the cessation of their work.

The average value of occupied farm land in Canada last year was \$38.60 an acre, compared with \$37.50 the year before.

HOW THE PROFITS ARE DIVIDED.

At the recent convention of the Farmers' Union in St. Louis a chart was displayed prominently on the stage showing the division of profits in a five-cent loaf of bread. According to this chart the wheat grower receives one and one-half cents out of each nickel, the baker receives two cents and retail dealer one cent. In other words, the baker and the dealer receive exactly twice as much as the man who owns the land and does all the work of raising and marketing the wheat.

This distribution of the profits, showing the benefit to be on the side of the city dealer, formed the theme of an interesting address to the Union by B. F. Yoakum, chairman of the Frisco railroad system. Mr. Yoakum argued that excessive profit-taking by middlemen is the reason for the high price of foodstuffs. He declared that the heavy reduction in freight rates of the last few years has been absorbed by the city dealers and has not been shared in by the farmers or consumers. "It is not prices received by farmers which make living expenses high, but the profits of the dealers handling the foods between the farmer and the consumer," declared Mr. Yoakum, and then filed a bill of details as follows:

The Florida farmer receives \$2.50 for a bushel of green beans, the railroad gets fifty cents for the 800-mile haul to New York and the consumer pays \$6.40 for this same bushel of beans. There is 35 per cent for the grower, 8 per cent for the carrier and 57 per cent for the dealer. This is not a fair division. Thirty cents a dozen was the average price of eggs in New York last year, while the farmers of Arkansas and Missouri received fifteen cents. The freight was two cents a dozen. The men who receive the eggs at a freight station in New York and deliver them to the consumer take thirteen cents a dozen profit. The rice farmer of Texas, Louisiana and Arkansas gets two and one-half cents a pound for the grain, and the consumer in New York pays 10 cents a pound for this rice. The freight is one and one-half cents a pound. If the rice farmer were paid three and one-half cents (one cent more than he is now getting) and the dealer took one cent profit (which is 25 per cent) the New York consumer would get twenty pounds of rice for \$1, instead of ten pounds, as now.

Mr. Yoakum advocated organization of the farmers as the surest and most logical way of remedying the existing affairs. He also pleaded for government reclamation of waste lands in the South, stating that an expendi-

ture of \$1,500,000 a year for twelve years would make available enough lands in the Mississippi valley to provide eighty-acre farms for 312,500 families. This vast number of families removed from the city and placed on the land, where they would be self-sustaining and would assist in producing foodstuffs for the others, would largely mitigate the conditions which now exist. Mr. Yoakum pledged the assistance and co-operation of the railroads.

This matter of the middleman's profit is coming more and more generally to be assigned as one of the first causes of the present high cost of living. It is highly probable that evidence taken along these lines before the examining congressional commission will relieve the farmer of the responsibility and place it squarely on the shoulders of the middleman and retail dealer.

A HOMEMADE CONCRETE MIXER.

Mixing a considerable quantity of concrete by hand is certainly hard work, but if cement, sand, gravel and water could be as thoroughly mixed by hand as by machine the expenditure of so much hard labor would not be considered so unnecessary and even wasteful. Of course, in mixing small quantities one cannot afford to take the necessary time to rig up a mixer, but farmers are today using concrete in large quantities and consequently need handy mixing outfits. Mr. L. E. Scott, of Chippewa county, Wis., who has had considerable experience in concrete work, described his homemade mixer at the 1910 "Round-Up" Farmers' Institute, as follows:

Any farmer can make a concrete mixer similar to the one which is in use on my farm. To begin with, make two round heads about thirty-six inches in diameter out of ordinary two-inch plank. Arrange to have these a little more than two feet apart and nail a standard sheet of galvanized iron around them. A sheet of galvanized iron is generally twenty-eight inches wide and eight feet long. Lap the sheeting on each drum head, leaving twenty-six inches in the clear and lacking about sixteen inches of coming together at the ends. This leaves an opening in the drum through which the material may be put in and taken out. Over the iron sheeting spike 2x4s which have been cut evenly and thirty inches in length. Make a lid of the same material with which to fill the opening. Button this firmly in place by means of clasps or strong buckles. Have the blacksmith shrink on flat iron hoops on each end of the cylinder and through one of these hoops have him bore twelve one-half-inch holes. Into these drive pieces of iron rods to serve as sprockets. About this improvised sprocket wheel place a sprocket chain which is also attached to a seven or eight-inch sprocket wheel at the opposite end of the framework. It will be understood that this small sprocket wheel is a part of the shaft which may be turned either by hand or be connected by means of a large pulley and belt with a small engine. The gudgeons, upon which the cylinder turns, are made of three-inch gas pipe nipples and are screwed into a flange coupling with iron plates on the inside. Dry hardwood plugs are driven into these nipples to stiffen them. Water is admitted into the cylinder through a hole bored in one of the nipples. A small gas pipe reaching the width of the mixer and with small holes bored in the bottom of it for its entire length may be inserted through the open gudgeon and this pipe can be connected with a water keg or pail placed upon a convenient shelf near the mixer. The machine is now ready for the mixing process. Put in as much gravel and cement as is desired and then revolve the mixer until the cement and gravel are well mixed. Then slip in the gas pipe and add sufficient water for the mixture without stopping the machine. By the time that amount of water has been introduced the mixing will be complete. We have a slush box mounted on skids which we slip under the mixer and into which we dump the whole batch, pulling it with a horse to wherever we may wish to use it.

Nearly every farmer will have his own model for a concrete mixer. Practically all of these homemade machines are inexpensive and yet serve the purpose admirably well. We know of one farmer who mounted a square churn-like box between two wagon wheels. He would fill his churn or box with the concrete mixture and then hitch a team onto the affair and drive about the yard until the cement, gravel and water were thoroughly mixed, and then drive to the place where the mixture was being used and unload. This mixer seemed to work nicely and had the advantage that it required the application of no other power than that

which is common and abundant upon the average farm.

THE LONG AND SHORT HAUL.

The most important development in congress within the past few days, so far as the farmer is concerned, has been the adoption by the senate of a long and short haul amendment to the railroad bill. This amendment makes it unlawful for a railroad to charge more for a short haul than for a long haul, if the shorter is included within the longer, except with the consent of the interstate commerce commission. That consent may be given if the commission is satisfied that conditions warrant it, but it must affirmatively declare rates charged for the short haul are reasonable.

Under the present law a shipper can complain of an excessive rate and ask the interstate commerce commission to reduce it, but the shipper has to establish the fact that the rate is unreasonable. This is frequently exceedingly difficult to do, because of the lack of information the shipper has as to the cost of the service or expense of maintaining the railroad system and the proportion of that cost that ought to be borne by the specific rate complained of. The result of this difficulty is that the correction of the excessive or discriminatory rate has been attended by great delay and expense to the shipper.

The amendment adopted by the senate provides that the railroad company which desires to charge less for a long haul than for a short haul, the short haul being included within the long haul, shall first apply to the interstate commerce commission for permission to make the lower charge for the long haul, but "in no event shall the authority be granted unless the commission is satisfied that all the rates involved are just and reasonable and not unjustly discriminatory nor unduly preferential or prejudicial."

The practical effect of this decision is that if the railroads want to charge the farmer, for instance, less to ship a car load of stock or a consignment of grain from Des Moines to Omaha or from Des Moines to Rock Island than it charges for the same shipment from Des Moines to Denver or Des Moines to Chicago, it must establish to the satisfaction of the interstate commerce commission that all the higher rates are just and reasonable. Failing to establish this it cannot charge less for the longer hauls than it does for the shorter hauls.

Discrimination has undoubtedly prevailed in the past in this respect, as every farmer who has shipped to any extent knows. If the senate amendment is adopted by the house and becomes a law this discrimination because of distance and through traffic will be ended. Without regard to the reasonableness of the charges, it has been the practice of the railroads in the past often to charge less for transmitting milk cans, stock and all manner of shipments 500 miles than 100 or 200 or 300 miles. This has been done mainly to increase through business and to keep the carrier cars filled with freight until their ultimate destination has been reached. The practice has worked out to the advantage of the railroad company, but has been a burden on the short distance shipper. It is to obviate this that the senate has adopted the long and short haul amendment to the railroad bill.

LIVE STOCK AND WEEDS.

(Continued from page 3.)

is mainly devoted to the rearing and feeding out of all the principal classes of live stock. The owner in this instance claimed that he could, by the use of legumes, maintain his yield were it not for weed encroachment, but as both annuals and perennials were greatly on the increase and as these could not possibly be kept in check by the use of intertillage crops, it became necessary to change the system. After all, therefore, the old-fashioned plan of seeding down land, using it a year for meadow and possibly a year for pasture before plowing it up for an intertillage crop, is the only sensible plan yet discovered that will keep weeds in check under ordinary farm conditions.

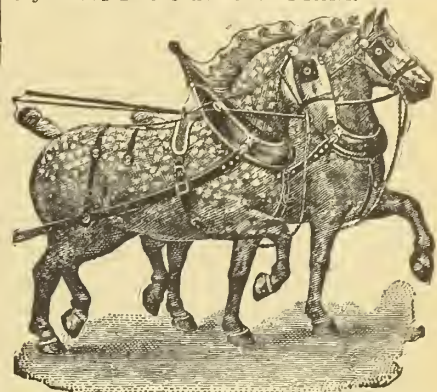
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Your Horse Would Be Worth From \$25.00 to \$50.00 More Money If You Could Cure Him of His Lameness.

If your horse has Scratches, Mud Fever, Grease Heel, try Wool Fat Ointment—FREE.

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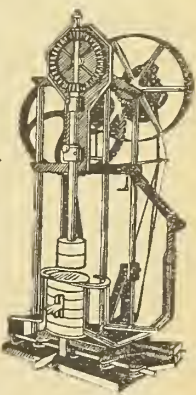
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FARM FURROWS

Turned By a Practical Farmer

I have just had a circular from the American Phytopathological Society, in which they refer to two dangerous European plant diseases known as "Chrysophlyotis endobiotica Schilb" and "Peridermium strobili Klebahn," respectively. The everyday name of the first one is potato wart and the second one, pine rust. I don't know why the circular couldn't say that in the first place.

Water will run uphill to get into a hog house, I verily believe. A few years ago, when building a new hog house, I spent two days hauling dirt for the fill. That put the floor at least a foot higher than the surrounding surface. It has not got very bad since, but the outside pens are a quagmire every time it rains. The eaves should be spouted to carry the water away from the pens.

In regard to pastures it must be said that they are short and not very sweet. If stock is to do well they must still be fed what is generally considered a winter ration.

With the few light rains we have had the fields of small grain, especially those that were disked and drilled in, are beginning to take on a green color, but they are rather thin in many places.

This season has been rather favorable for killing weeds on corn ground and getting a first-class seed bed made, but it will pay well to have the cultivator shovels sharp and ready to get after the weeds as soon as possible because that is a crop that needs killing and lots of it.

The combined riding and walking corn cultivators may be just the thing, but walking behind a cultivator with a good seat turned over within easy reach is a thing very few of us can do.

The water supply on the farm has improved greatly since the first settlers used to dip their water from a hole in the ground with a pail and a piece of rope or a stick. The first improvement was "the old oaken bucket." Later came the pump, then the windmill, now the elevated tank supplies water to the different buildings on many farms by the turning of a faucet.

It is never too wet to fix fence and right then is when stock seem to test the fences. I have a horse that insists on eating over the top wire when the posts are easily leaned.

The poorest stand of corn on the farm often turns off the most grain, of the best quality. Years ago I heard a man say that nine-tenths of the farmers have too much when they have what they consider a good stand. I have been all these years finding out he was right.

Corn has become a tail-ender in recent years. When I was a boy we set our mark for winding up cultivating before the Fourth of July and usually finished on schedule. Later years the laying by has all been to do after the Fourth, and from then on has been a race with Jack Frost.

There is little feeding done now without grinding. A neighbor who has tried finishing steers on ear corn has given it up after several years, and has lately installed a gasoline engine and power grinder. He believes he can get more fat with the same corn and get it on in less time.

A neighbor across the way has been stringing woven wire all week, putting it completely around a half section pasture. When done, his hogs will go with the cattle. I am going to watch those hogs and keep as close a watch on what he feeds as possible, and see what dividends so much fencing pays.

I have always wanted a woven wire fence around a good-sized pasture for

the horses, but have never felt that I could afford to have the land fenced separate and with such expensive fencing. For years I have been firmly convinced that it is best for neither the horses nor cattle to have them running together.

A rural mail carrier earns every cent he gets. Let me tell you that riding over the route six days in the week is no snap. The carrier on this route has been at it for six years and he has promised himself and team that they quit in the fall.

When picking out corn for the horses, the other noon, I found an ear that seemed heavy for its size. Close examination showed the ear to be filled perfectly at both butt and tip. I wish some of those who take no stock in having the butt and tip well filled



FIFTY HOLSTEIN HEIFERS IN THE PASTURES OF MESSRS. WILLIAM EVERSON & SONS, LAKE MILLS, WIS. SEE PAGE 30.

could have noticed the difference it made in weigh. It could be told with the eyes shut that something was there that was lacking on the common ear.

The child uses a marvelous lot of energy in its play, doing something that doesn't amount to much except that it pleases the fancy. In this respect we are all like children. Work that pleases the fancy comes easy to everyone.

A reader writes the Furrows man that he has a red sow with sixteen pigs, but there are plates at the table for only ten of them. He is trying the hand method of raising the surplus six and will report results later. I have raised pigs by hand, but it was when I had only one or two sows and I was after a start in hogs. After a fellow gets a good-sized herd he never seems as careful of saving a few extra as he was when he had only a few.

I have burned hay and burned corn, but now my summer fuel is coal oil. The boss of the kitchen now no more thinks she could get along without the oil cook stove than I could without the manure spreader or the hay loader. The improvements that come to the farm should come to the cook and the outside worker alike. It seems to me that some outside workers are selfish in that they do all the improving for themselves.

The best thing that can happen to many a seeker after county office is to be buried under an avalanche of votes for the other fellow. I once had a mighty good neighbor, who was also a mighty good farmer. The office bug got under his straw hat one summer and the people elected him to the office of his aspirations. That sent him to town with his family, and he has eked out a bare living ever since by picking up odds and ends. Had he stuck to the farm he might have had dollars where he now has cents.

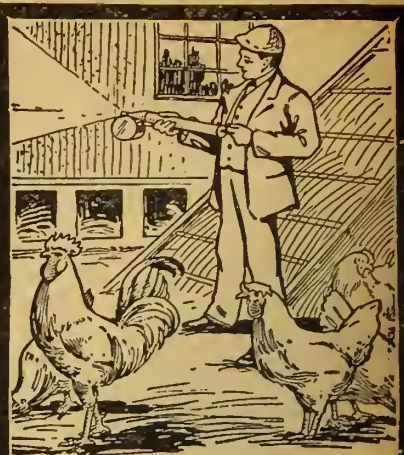
The man who treats his team right has one streak of good in his makeup that is broad enough to cover up several streaks that may be just a little off color. I cannot exactly bring my-

self to like the man who is abusive to horses. The thought is ever uppermost that he might be abusive to other beings under his control, and that on rather slight provocation.

The hand-planting method of patching up a stand of corn is a fake. The missing hills when planted in late are smothered by the larger corn, do not shed pollen with the main field and in the end seldom amount to more than stalks of fodder. Here of late I have stuck unswervingly to the plan of replanting with the regular planter or letting the field go without replanting.

The suckling colt's place is in the barn, not trailing along in the field. Colt and mare soon learn such ways, after which there is no trouble with the colt rambling off, possibly following a passing team. Last summer I saw a man cultivating corn with two mares, both colts following. Of course those colts walked right on rows of corn clear across the field.

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PANAMA FARMS AND FARMERS

E. N. Bailey Writes of the Customs and Agricultural Operations of the People on the Isthmus, Where Nature is Both Prodigious and Lavish in the Extreme

THE possibilities of Panama are beyond comparison. Soil as rich as the famed soil of Sicily, everything in the vegetable kingdom is of such unheard of proportions and unreasonable dimensions that pen fails to depict and tongue to portray.

The native builds his house of the slightest bamboo several feet above the ground, that he may get the air and evade the dampness, for it rains nearly half the time from April to December. It is covered with a few leaves that are as impervious to water as a rubber roof, and with wide gables and extended eaves over the porches to keep the sun from striking his living rooms, the whole fabric is as open as a lawn settee. No window is needed, and but for the mosquitoes they would be an ideal residence in that climate when beautified and built on modern principles. The "northmen" have wide porches that are entirely screened, and as they practically live on the porches there is always a breeze blowing that tempers the heat to a comfortable degree during the entire day. It is when he begins to work or move about that he feels the heat, and in the sun at noon it "gets there" and no mistake. The mosquito is not in the zone any more. Colonel Gorgas has driven them from the habitations and works on the Isthmus and both the city of Panama and Colon are freer from them than any city in the grain belt. Twenty million dollars was spent in sanitation before work was fairly begun, and the same goes on all the time. Drains are kept open and oil spread on the waters for a distance of 500 feet around all houses and that, the Colonel says, is the longest flight of a mosquito.

In the interior, on the selvas and savannas, cattle thrive the year around without feed or care and are fat at all times of the year, but here, too, the Panamanian falls far short of doing anything like "white folks." No care is taken in breeding; all the males are left as by nature formed, and no effort whatever put forth to either increase the herds or better them. They are all blondes, both males and females, about the color of our lightest Jerseys, but they all have horns that are intended for defense against the cougar, black tiger and jaguar that infest the mountains, and running wild they are foes to man that one does not care to meet on foot, and at times are dangerous to the unarmed horseman as well. On nearly every day in the year cattle are driven into Panama to supply the markets, being driven in over the trails from the North mostly, though some come from the East, and ranges are said to be there to raise 100 times the number that are there now.

Horses and mules from the states are short lived, horses coming mainly from Peru, where the little chunks weighing about 700 pounds apiece are bought for carriage use. They are as tough as dogs and but little bigger, but they will trot all day with anything they can pull. Mules come from Mexico and Cuba, but no one uses a horse or a mule outside of the city for anything but saddlers or pack animals.

Some of the rarest and most beautiful woods grow in Panama; mahogany, rosewood, lignum vitae, and snakewood, together with many varieties of softer woods. I could not learn that these hard woods grew in groves or in sufficient quantities to make it practical to build roads to them to be exported, the heaviest and hardest are too heavy to be floated and tramways would be the only method of getting them out to the seaboard.

Until recently no good titles could be secured to Panama lands. This difficulty will be overcome entirely, if it is not already, and good titles to all real estate will supersede the old mete and bound grants. A few northern speculators are already investing in timber lands in certain localities, designing ultimately to clear the timber for sale and the lands into coffee or banana plantations.

It would look that the banana business is a big payer, but it requires big capital to operate it. Bananas are worth twenty-eight cents per bunch at the seaboard docks, and \$1.25 per bunch at New



BRINGING THE FARM PRODUCE TO MARKET IN PANAMA.

Orleans, 1,200 to 1,400 miles distant, and water transportation very cheap. However, the big fruit companies refrigerate the holds of their fruit vessels, which, of course, adds a large expense in that hot climate.

There are a few dairies in reach of the cities and all cattle looked well and showed good health and good flesh. I saw several herds from the railroad in the zone, all in fenced pastures. Milk brings an enormous price and cream is simply "out of sight." All the milk that came to the table was the concentrated kind, "white, but not too white."

Nearly everything eaten by the whites on the zone is brought from the United States and large refrigerators holding hundreds of beef quarters and barrels of pork have been built for the accommodation of the builders.

It is about as hot in Panama in winter as in summer, except that the humidity in the summer when it rains nearly every day makes the heat more unbearable. However, the nights are pleasant and the days up to eleven o'clock a. m. are "not so bad." There is nearly always a breeze blowing on the isthmus. The evenings are beautiful and a screened porch makes a delightful place to sit, but there is generally but little twilight. At Panama the sun rises and sets in the Pacific ocean, another anomaly. While there was no trouble in the fine, sunshiny days in keeping the points of the compass correctly, there were so many of these idiosyncrasies of Darien's and Balboa's discoveries sprung on me, that I thought at times that geography was a delusion and a snare and direction merely a matter of taste, especially so when we left Colon and sailed 150 miles almost straight west and most of the time out of sight of land. A "pumpkin vine," "a crook-neck

squash" and "a devil in the brush heap" cannot compare with the crookedness and incongruities of the Panama coast line to the stranger; the only direction you are sure of is straight up or down.

One of the traditions of Panama (of recent date) that the people like to talk about and to enlarge upon is the secession and independence of Panama from the United States of Colombia about the time that we took possession of the canal. Our government, as we all remember, had got a treaty with Colombo all ready to sign several times when some Spanish nabob would kick everything over in an effort to get some more for it, and finally refused to treat at all; then Panama seceded. One of the agreements we had made with Colombo when we bought the French out was to carry their troops across the Isthmus at any time they desired. When Panama seceded up came a Colombian vessel loaded with soldiers and demanded passage across the isthmus. Of course, the officials of the railroad were anxious to take them, but unfortunately nearly all the cars were on the other side. However, they could take the officers

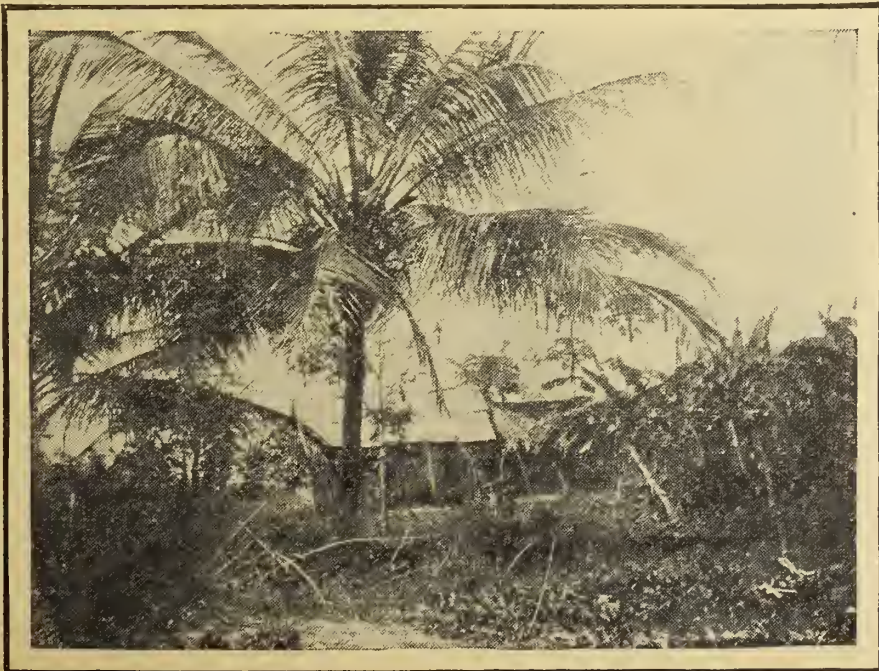
across and come back and get the men. This they did, but the Panama officials put the officers in jail and then wired the soldiers to that effect over in Colon, with the assurance that if they did not skedaddle back in their boat that they would get their heads cut off. The soldiers did not need a second bidding and went. Some of the officers joined the Panama army, others got back the best way they could, while one or two of them committed suicide, as engines would not work and wheels would not roll when required to haul the Colombians. The United States government had nothing to do with this, just the fellows themselves who had become tired of Colombo's dilatory tactics, and they got it into their heads to "play funny." It worked all right and the result was that one insurrection was nipped in the bud and Panama was a free and independent country. Fortunately, Uncle Sam was then ready to begin the ditch, so the treaty was made with her and the country is free yet, and probably always will be. Our country then recognized Panama's independence and the treaty was made with them and the zone bought for \$10,000,000, and property is as safe in Panama today as it is in the states.

There is no trouble in Panama in enforcing laws, and it is well governed. While it is not United States territory, practically it enjoys all the benefits, for the stars and stripes waving over every part of the zone is a reminder that our government retained the right to enter either Colon or Panama at any time to enforce either sanitation or establish a police force, and as these two cities are virtually the only cities of note in the country, it means that your Uncle Samuel, while ostensibly guardian and administrator of the country, is also the probate court, sheriff, executor, clerk, auditor and treasurer, and stands in pretty closely to the widow if occasion should demand.

Fish are plentiful and cheap and an important article of food. A few cooks to show them that fire should be used in cooking them would be of value; the parboiling and general slushiness of cooking them was not relished by our party. They looked when served as though they had taken a ride in the hot sun until melted into a state of discouragement and had given up tired out.

A Panama bed is a mahogany slab with a night gown on it and a sack of tacks or shingle nails for a pillow. A photograph of one would be a good thing to hand down to posterity as a substance third in hardness to the diamond, but the government hotel at Ancon has fine beds that are after the order of white folks' beds, and also high, airy rooms that are kept in the pink of perfection.

The old trail over the mountains from Porto Bello to Panama, that was used in the sixteenth and seventeenth centuries by the Spaniards, was paved with cobblestones and can yet be traced clear



EVERY PANAMA FARM HAS ITS COCONUT TREES AND PALMS, GIVING BOTH FOOD AND DRINK.

(Continued on page 10.)

CURRENT EVENTS

POLITICAL interest during the week centered in the statement of Frederick M. Kerby, a young stenographer in the employ of Secretary Ballinger, that the famous letter which President Taft issued exonerating Secretary Ballinger and discharging Chief Forester Pinchot from the government service was written not by the president, but by Oscar Lawler, assistant attorney general for the interior department. Mr. Kerby's statement was to the effect that the president's letter would be found almost identical with the opinion drawn up by Mr. Lawler after repeated conferences with Secretary Ballinger and others in the interior department. The next day after the Kerby statement was published broadcast in the newspapers President Taft wrote a letter to Senator Nelson, chairman of the committee to investigate the interior department, and the forestry service, stating that he had in fact requested Mr. Lawler to write this letter exonerating Ballinger and discharging Pinchot "as if he were president." The president stated that Mr. Lawler did so, furnishing him with a thirty-page brief, but that this brief did not exactly meet with his ideas and that he discarded it, taking only two paragraphs verbatim. An examination of the two documents shows that the president is right and that the two Lawler paragraphs are rather immaterial. At the same time, however, the anti-administrationists are making much political capital over the incident, together with the fact, which the president admits, that at his suggestion Attorney-General Wickersham dated his written opinion on the controversy three months prior to the time it was actually furnished the president, in order to have it appear that the president's letter was the result of independent investigation. This recent development complicates the Ballinger-Pinchot controversy more than ever, although it is extremely doubtful if the affair has embarrassed the administration to the extent that its enemies allege.

THEODORE ROOSEVELT has spent the past week in London, where he was accorded honors as the special ambassador of the United States to attend the funeral of the late King Edward. On account of the death of the king there were no demonstrations either when he arrived in the city or at any time during his passage through the streets or his appearances in public. He was entertained by King George, however, and other notables of the empire and has led a busy life during his London stay. The funeral of the late king was held Friday of last week and Roosevelt was given a place along with the visiting monarchs of various European countries. Prior to leaving England for his return to the United States, Colonel Roosevelt will deliver an address at Oxford University in which he will discuss some of the big issues of the day. He has already delivered two such addresses and the coming one at Oxford will round out the series.

EDWIN F. NAULTY, of New York, an astronomer of note, makes the claim that the unusual and erratic weather of this spring was undoubtedly caused by the close proximity of Halley's comet. Mr. Naulty says: "The sweeping of this cometary cone of solar force does cause disturbance in the solar system. The earth and all the planets are affected, not only when they come within the actual cone, but also by ethereal waves set in motion by the comet's tail. It is the constant attempt of the earth's mass and its atmosphere to adjust themselves to this disturbance that has caused prevalent earth tremors, storms and other phenomena." Other noted astronomers take exception to Mr. Naulty, claiming that the comet has had nothing to do with the weather. The fact remains that seismic disturbances, volcanic eruptions

and all manner of storms have been prevalent throughout the entire world this spring. In the absence of anything authoritative the comet serves the purpose of scapegoat for a most unusual and unpleasant season of weather.

SENATOR OWEN'S bill providing for the creation of a federal department of health, the head of which shall be a member of the president's cabinet, is meeting with considerable opposition. The National League for Medical Freedom has been organized in antagonism to the Owen bill. One of the leading spirits in this organization is Charles W. Miller, former chairman of the state democratic committee of Iowa, who maintains that such a department would infringe on the rights of the states to care for their own public welfare. Mr. Miller has written a number of magazine articles attacking this so-called medical trust and is bitterly opposed to allowing the medical profession any further rights. Senator Owen is making a determined fight for his measure. At the recent Farmers' Union meeting in St. Louis he delivered one of the principal addresses, devoting a couple of hours to pleading for the conservation of human life as well as of natural resources. He was given careful attention and was heartily applauded, showing that his farmer auditors are in sympathy with the movement.

THE most serious river disaster of recent years occurred on the Mississippi a short distance below St. Louis last week. The steamer *Saltillo* ran on a rock and sank, thirteen people losing their lives. The usual inquest and examination is being conducted, but the affair seems to have been the result of an accident for which no person was responsible. During the heyday of river navigation, some three or four decades ago, accidents were numerous, due largely to the habit of racing the steamers one against another. It was no uncommon thing to pile the furnaces full of highly inflammable fuel and to hold the safety valve down by some artificial means in order to get up a high head of steam and distance the competitor. Explosions and burning boats resulted and the history of steamboating is filled with chapters of casualties. Of recent years, however, there have



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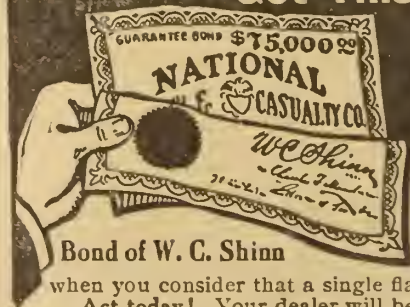
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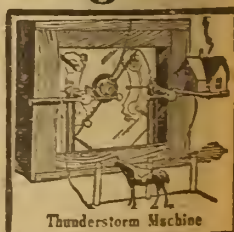
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been but few accidents, so that the Saltillo's fate has shocked the country.

THE preachers of the country are up in arms over the proposed Johnson-Jeffries prize fight which is to be pulled off in San Francisco on the Fourth of July. In a recent fistic encounter in San Francisco one of the fighters was killed by the other. The preachers have endeavored to use this as an excuse for stopping the proposed fight between the heavy weights. Failing in this, they have started a crusade to offer San Francisco such counter attractions as to minimize the attendance at the bout. They will start a carnival of revival services with Billy Sunday as the principal speaker, assisted by several noted divines from New York and the East. The revival services will start several nights before the prize fight is slated, the idea being to get the people worked up to a high pitch of enthusiasm before the day of the mill. Between the two big events the California metropolis will have the most strenuous week and the largest attendance which it has ever known.

THEODORE ROOSEVELT was shown unusual honors by the emperor of Germany. He was introduced to the 12,000 troops who participated in the mimic battle arranged in his honor by the emperor, who referred to him as "my friend Roosevelt." The ex-president was the first civilian who has ever reviewed the German troops. He was honored with the degree of Doctor of Philosophy by the leading university of Germany, the emperor being present at the ceremony and personally congratulating Roosevelt, this being the first time that the emperor had ever taken such action for any person. In many other ways the emperor and empress showed their kind feeling for Roosevelt and for America, so that the stay in Germany was particularly notable. The ceremonies which had been arranged were of necessity abandoned because of the death of King Edward, but Kaiser Wilhelm lost no opportunity to show the *entente cordiale* existing between the two countries.

THE funeral of the late King Edward VII. of England was held Friday of last week in the presence of a notable convocation. The reigning monarchs of eight European countries were present, together with their staffs and a large number of famous nobles. The king of Spain, emperor of Germany, king of Greece, king of Norway and Prince Henry of Prussia were among those who followed the body of the king to the mortuary chapel. The body reposed in Westminster Hall for several days while hundreds of thousands of sorrowing Britons passed by, at the rate of 6,000 an hour. The body reposed in the hall where the English monarchs down to George IV. gave their coronation festivals, where Charles I. was condemned to death and Cromwell was saluted as lord protector, and where George IV. himself was crowned.

A Breakfast Joy....

Sweet, Crisp, Golden-Brown

Post Toasties

Ready to serve from the package with cream—no cooking necessary.

"The Memory Lingers"

Pkgs. 10c and 15c.

POSTUM CEREAL CO., LTD., Battle Creek, Mich.

IOWA FAIR PREMIUM LIST.	
The 1910 premium list for the Iowa State Fair is now ready for distribution. Iowa will as usual open the circuit again this year, the dates being from August 25th to September 2d, inclusive.	
The classification in this premium list is more comprehensive than ever before, there being an aggregate total of more than \$64,000 offered in cash prizes. This grand total is equitably divided among seventeen departments as follows:	
Horses	\$12,220.00
Cattle	14,286.00
Swine	4,437.00
Sheep	2,467.00
Poultry	1,835.00
Agricultural products, including educational exhibit of farm crops	
Pantry and kitchen	5,227.00
Apiary	572.00
Dairy products	266.00
Horticulture	657.00
Floriculture	1,123.00
Fine arts	926.00
Work of children	1,928.00
School exhibits	121.00
Scholarships	611.00
Exhibit from State Agricultural College	1,000.00
Speed	\$60.00
Total	15,600.00
Total	\$64,076.00

There are a number of features in this premium list to which special attention should be called. There will be a class, for instance, for pure-bred and cross-bred mares and geldings, the entries being limited to Iowa farmers. The first premium in this class is \$40, the second \$30, the third \$15 and the fourth \$10. Single entries will be shown to halter, while the pairs as well as the four and six-horse teams will be shown in harness hitched to appropriate wagons.

As Mr. S. B. Packard, who for many years was superintendent of the cattle department, retired last year, it has become necessary to select his successor. The honor to head this important department has fallen to H. L. Pike, of Whiting, who has for many years been the able superintendent of the sheep department. Mr. Pike is a practical man as indicated by the fact that he is a successful farmer and an extensive cattle feeder.

By reason of the fact that the Iowa State Fair has been selected by the American Berkshire Association for their 1910 show and sale, the premiums in the Berkshire classes offered by the fair association have been liberally supplemented by cash premiums offered by the Iowa Berkshire Association. The combined premiums in the Berkshire classes amount to a grand total of \$1,500.

Mr. Charles Escher, Jr., one of the new members of the board, will succeed Mr. Pike as superintendent of the sheep department. No man engaged in live-stock raising in the entire central West is more favorably known than Mr. Escher, and sheep breeders in general may feel every assurance that their interests will be looked after in every respect.

At least one radical departure has been made in revising the premium lists for 1910. We refer to the elimination of the old-time competition for county exhibits. In their place will be a class for individual farm exhibits and in this connection we would like to encourage a great many hundred Iowa farmers to interest themselves in this class. Full information regarding it will be found on pages 116-119 in the premium list.

The newly-appointed state dairy and food commissioner, W. B. Barney, will act as superintendent in the dairy division, the department which has in the past been so ably presided over by Mr. H. R. Wright. Mr. Barney's qualification for the position needs no comment, because he stands as one of the leaders in the dairy industry in the United States.

An ample supply of these premium lists is on hand and those specially interested in any department of the fair should write for a copy to Sec. John C. Simpson, Des Moines, Iowa.

A subscriber asks how many ducks should be mated with one drake. The common rule is six or seven ducks to one drake, and it holds true if you are sure the drake is potent, but you cannot always be certain of them, hence it is best to have extra ones in reserve and to test the eggs from the different pens so as to note whether any impotency exists.



Who Won the Corn Trophy?

The Kellogg \$1,000 Corn Trophy was won by the man who produced the best ear of corn exhibited at the Omaha Exposition.

Kellogg's TOASTED CORN FLAKES

won its favor through keeping to the highest standard. Selected white corn alone is used. If we can get better, we will. The distinctive flavor—the inimitable cooking and flaking process—are found only in the genuine Toasted Corn Flakes—Kellogg's.

Look for This Signature



Kellogg Toasted Corn Flakes Co., Battle Creek, Mich.
Canadian Trade Supplied by the Battle Creek Toasted Corn Flake Company, Ltd., London, Ontario





Elwood's LIGHTNING RODS

COIL CENTER

HARD DRAWN PURE COPPER

The coil center gives greater surface therefore greater conductivity, consequently affording ample protection. If your home or outbuildings are rodged with Elwood rods, your insurance rates will be less. We use the same Hard Drawn Copper wire as used by electric light, telephone companies. None better. Hon. S. M. Elwood says: "I have been engaged in the manufacture of Lightning Rods for over 23 years and I consider my Coil Center Hard Drawn Pure Copper Cable Lightning Rod the best Lightning Rod manufactured." We want dealers in places where we are not represented. Write today for our best dealers' proposition.

OMAHA LIGHTNING ROD & ELECTRIC CO.,
1012 So. 12th Street, OMAHA, NEBRASKA.





WANTED—RIDER AGENTS

IN EACH TOWN and district to ride and exhibit a sample 1910 Model "Ranger" bicycle furnished by us. Our agents everywhere are making money fast. Write at once for full particulars and special offer.

NO MONEY REQUIRED until you receive and approve of your bicycle. We ship to anyone, anywhere in the U. S. without a cent deposit in advance, *prepay freight*, and allow **TEN DAYS' FREE TRIAL** during which time you may ride the bicycle and put it to any test you wish. If you are then not perfectly satisfied or do not wish to keep the bicycle you may ship it back to us at our expense and *you will not be out one cent.*

LOW FACTORY PRICES We furnish the highest grade bicycles. It is possible to make at our small profit above actual factory cost. You save 50c to 75c for middleman's profit by buying direct of us and have the manufacturer's guarantee behind your bicycle. **DO NOT BUY** a bicycle or a pair of tires from anyone at any price until you receive our catalogues and learn our unheard of factory prices and *remarkable special offer.*

YOU WILL BE ASTONISHED when you receive our beautiful catalogue and study our superb models at the *wonderful low prices* we can make you. We sell the highest grade bicycles at lower prices than any other factory. We are satisfied with \$1.00 profit above factory cost. **BICYCLE DEALERS**, you can sell our bicycles under your own name plate at double our prices. Orders filled the day received.

SECOND HAND BICYCLES—a limited number taken in trade by our Chicago retail stores will be closed out at once, at \$3 to \$8 each. Descriptive bargain list mailed free.

TIRES, COASTER BRAKE and everything in the bicycle line at half usual prices. *and everything in the bicycle line at half usual prices.*

DO NOT WAIT—but write today for our *Large Catalogue* beautifully illustrated and containing a great fund of interesting matter and useful information. It only costs a postal to get everything. Write it now.

MEAD CYCLE CO. - Dept. D184, CHICAGO, ILL.



I WANT YOU

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I'm Musgrave, of Des Moines (Western Man) and I want you to let me fix it to demonstrate and give you a ride in a "Black-Crow" and all the facts you'll want about the Black-Crow Line before you think of closing your deal for any car. Write me for price to suit you and my Book 139

Only \$1000 to \$1750

I'm selling these cars to folks out here in carload lots. Ask me why, and let me send you our catalog, prices and my special proposition on any of our full 30-H. P. completely equipped cars. Write postal sure today to "Musgrave"

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SEED CORN

Guaranteed first-class quality, all the leading varieties. Extra early, medium and large. 5000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you as to which kind is best for your farm. 25 years' experience at your service. J. B. Armstrong & Son, Shenandoah, Ia.

DAY BY DAY

AGRICOLA

"What will remove wrinkles?" asks an exchange. At this time a popular wrinkle exterminator is the rain water that is now falling in a mild drizzle-drazzle. It is good for the face of Mother Nature, and smooths out the deepening wrinkles on the brows of the anxious farmers.

As a morning-glory exterminator I know of nothing to beat the hog, or, rather, a drove of hogs. Make a pasture of the glory patch and turn in hogs without nose jewels and see what they will do.

There are but six creameries in the state of North Dakota which use separators in the creamery. In this one county where Agricola lives there are twenty-two power separator creameries, and they are all of them money makers for their patrons. As a rule, they are co-operative—after running expenses are paid all the money left is divided among the patrons according to the amount of raw material furnished by each.

The leaves are the best part of corn fodder, next to the kernels. Plant fodder corn very thick and there will be more leaves proportionately to the woody stalk than when planted thin. This holds true whether intended for dry fodder or for silage.

Never flatter yourself that you can break one of the commandments and leave but nine to be observed in future. You will be up against the whole ten as long as you live.

The family has been kept asparagus hungry nearly all the time this spring. It has been so cold and so dry that it grew very slowly. Heretofore there has been a surplus for sale, but this spring it is chiefly a rarity when company comes.

There is an epidemic of "grip" abroad in this part of the land just now. What is the cause? Pagan nations ascribe disease to Satanic agency and the business of their doctors is to drive away evil spirits. The early Puritans called sickness a "dispensation of Providence," and prayed to be restored to divine favor. The modern physicians talk of germs and microbes as the cause. And of late arise different schools of healing, teaching that disease is not a punishment, but a consequence—a personal matter and avoidable.

One of the late schemes is to adopt a fruit diet. The advocates of this claim that fruit was the original diet of man, and that he was built right for that kind of diet. And cures by the hundred are reported by changing from meat and pastry diet to fruit.

Another "cult" swears by raw food—food is naturally raw, and to cook it is going contrary to Nature. This is denied by still another kind of health preachers, and they come with cooked food already prepared, and some of it "predigested."

The one thing that practically all agree upon is more chewing of food and less than was eaten when living so grip and colds and other ailments were the result. Teeth were made to be used, and in our haste and haste we do not use them enough—this much is clearly proven and is not denied by any who have given the matter serious attention. The most notable example of the chewing cure is Fletcher and his so-called "Fletcherism." It is simply to chew until the food is a pasty mess and will "swallow itself" with no effort of the voluntary muscles.

But he is not the first to advocate thorough chewing. Nearly fifty years ago O. S. Fowler, the phrenologist and health writer, strenuously advocated this. But we laughed at him.

Nor was Fowler the first. Way back in the days before the flood it was written by an inspired writer, "The grinders shall cease because they are few." The grinders mean the teeth. When they are few they do imperfect work and the person dies because of this. The grinders cease,

life ceases, because the grinders are few. There were no dentists then to replace lost teeth. This is of utmost importance. If the natural teeth are gone, have artificial teeth put in their place at once. Otherwise, digestion will be imperfect and poor health will surely follow.

I bought my first milk separator the fall that McKinley was first elected, and it is still doing duty. His election occurred in 1896. And it has been washed but once a day for all this long time. Dairy writers insist upon twice-a-day washing, or "as often as it is used." Creamery separators are washed but once a day. Why, then, should farm separators be washed twice a day? Creamery separators are used but once a day, and I use mine but once a day. For me it is easier to warm the milk from the night's milking and run it through with the morning's milk than to separate it at night and wash the separator. But note how long a good, standard make of separator will last. Mine has been doing business for more than thirteen years.

My seed potatoes seem to be conservative in politics. I planted them April 6th, and they are so conservative and so discreet that on May 15th they were still invisible, except the few progressives that were up and asking recognition.

PANAMA FARMS AND FARMERS.

(Continued from page 7.)

across the isthmus. It was built to carry the loot that Pizarro captured from the poor, inoffensive Incas of Peru when he turned those peaceful people into slaves, devastated their country, outraged their women, and desecrated their shrines. The half-civilized sun-worshippers were far more Christianized than were their blood-thirsty captors. The loot was brought to old Panama which is six miles down the coast and now merely a pile of ruined brick and mortar. They carried it across on pack mules, and on the backs of slaves, loaded it on galleons to Spain to swell the coffers of the then reigning monarch. Panama was founded in 1518. Pizarro conquered Peru in 1532, and in 1671 Morgan, the buccaneer, came down from his retreat on old Providence Island, crossed the isthmus and totally devastated and destroyed old Panama, making it "one thorough desolation," put the inhabitants to the sword, except some women that he gave to his men as wives or held for ransom, and as a pirate in those days was so much more a desirable citizen than a Spaniard, anyhow, the king of England knighted him for this valorous act and made him governor of Jamaica. The descendants of the Morgan pirates are the inhabitants of old Providence Island to this day, according to correct belief and tradition.

The ruins of old Panama is an interesting old pile now overgrown with trees, vines, and a tropical growth of jungle. A few negroes lived in the ruins, and oranges and bananas grow wild that were formerly cultivated by the priests of the old city, and cocoanut trees abound on the peninsula on which the old city was built. The present city is built on a hill or a succession of hills and a thick stone wall once surrounded it which is in a good state of preservation in part today.

The ruins of an old convent called Santo Domingo are shown the visitors in which a curious flat arch in which there is no keystone, that extends across the building for forty feet with no support whatever that weighs many tons. It is about twelve feet wide, four feet thick and the convent has been in ruins for more than 200 years. It looks as though there were nothing whatever to keep it from falling, and is shown to prove that earthquake is about as dangerous to the locks of the new canal as is the danger of wind blowing them away. The brick and cement were made on the ground and it is certain that those old chaps understood the art of making it better than it is known today, for it was made of shells prepared in some manner that is not now known, and is hard and firm as a rock itself. Those hardy old rovers built to stand for all time or to annihilate if the spirit so moved them as the case might be.

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

DO YOU WANT to make money? Buy a home or invest in "Golden Prairie District" lands. Fertile soil; good markets; pure well water from 25 to 80 feet in depth; good roads; good schools; healthful climate and good citizens. Don't go on renting or trying to buy high priced land. You can get a good farm here at \$12.50 to \$25 per acre. This soil produces anything in field or garden products. Invest your money in Golden Prairie District land. Your money will be safe. Your land will double in price. Decide now. Write for circular today. George W. Bremer, improved and unimproved lands, Egbert, Wyoming.

CANEY RIVER Valley home. Corn, wheat, alfalfa; the very best soil. Get out the old plodding community into this hustling new state, where man of moderate means has chance and the man of large means golden opportunities. I will sell you land right in the oil gas belt of Rogers County, Oklahoma. You stand good chance to make fortune on oil or gas. For particulars write W. B. Herriman, Room 14, Woodbury Bldg., Marshalltown, Ia.

"DRY FARMING" lands in Colorado can be bought for \$5 to \$25 per acre. Average yields are 10 to 25 bushels wheat; 20 to 50 bushels oats; 10 to 45 bushels barley, etc. Good hog-raising and dairying lands; fine climate. Write for information to the State Board of Immigration, Room 21, State House, Denver, Colorado. We are supported by the state and sell no lands.

SOUTH DAKOTA—Are you interested in South Dakota, the state that is leading all other states in the production of wealth per capita? If so, send for free literature on Brule County and South Dakota. No agents need apply. I sell direct to purchasers, who save from \$1 to \$5 per acre commission. J. A. Strausky, Pukwana, South Dakota.

320 ACRES, unimproved, \$25; 320 acres, improved, one mile from town, \$45; 160 acres, improved, \$35; 240 acres, improved, \$40 per acre. These farms and others we have for sale are in the best farming section of southern Minnesota. C. G. Ericson Land Co., 411 Palace Bldg., Minneapolis.

390-ACRE FARM, \$6,000 cash; balance \$12,000 on any reasonable terms. Best of improvements. Located half mile from main line (Great Northern, Grant County, Minnesota). Crop nearly \$5,000 last year. Sale necessary account sickness. 505 Palladio Building, Duluth, Minnesota.

GOVERNMENT FARMS free. Official 112-page book, "Vacant Government Lands" describes every acre in every county in U. S. How secured free. 1910 diagrams and tables. All about irrigated farms. Price 25c. postpaid. Webb Pub. Co., Sta. H, St. Paul, Minnesota.

NEW YORK LAND—78 acres with good house and barn, only \$1,500; 45 acres, good house and barn, stock, tools, etc., \$2,400; also 195 acres, good buildings, stock, tools, etc., only \$3,400. For particulars write Lewis Farm Agency, Candor, Tioga County, New York.

800 ACRES for sale in ranch, soon to be irrigated, project to be complete by winter. 2 1/2 miles to new town on Burlington and 8 miles to Sterling, division point of two railroads. This is good land and selling cheap. Wm. McClain, Sterling, Colo.

SACRIFICE SALE—320 acres, extraordinarily improved; Southeastern Iowa; black loam; two miles to railroad; actual sacrifice by heir; sell at \$60. worth \$85; terms. Extra inducement explained on application. William Davis, Moulton, Iowa.

240 ACRES, 3 miles from St. Cloud; best of soil; good set of buildings and good American neighborhood. Price, \$46.50 per acre; one third cash; balance 6%. Write for land list to Gulde-Whitney Real Estate Co., St. Cloud, Minnesota.

I WANT information immediately about a good grain or stock farm for sale. There is a good buyer waiting for it, willing to pay your price. Write me at once for full particulars. Address Arthur Capper, Dept. 43, Topeka, Kansas.

MINNESOTA has 1,000,000 acres open for homestead entry. Offers cheap lands and farm employment. Write for literature and full information. State Board of Immigration, Room 223, State Capitol, St. Paul, Minnesota.

WE BUY, sell and exchange land for stocks goods and good income property; Minnesota, South and North Dakota. Agents wanted. Liberal commissions paid. Mack Land Company, Miller, S. D.

60 ACRES—9-room house, barn, 3 poultry houses; cider press engine; fruit; 500 cords of wood; part celery land; trout stream; \$1,200. Hall's Farm Agency, Owego, Tioga County, New York.

BUY YOUR HOME in Williams County, North Dakota. Best soil; best climate in North Dakota; \$15 to \$25 per acre for improved farms. Call on or write P. K. Everson, Tioga, North Dakota.

FOR SALE—A 575-acre stock or dairy ranch on the Bellefourche river, Meade County, S. D. For particulars, address the owner, A. Mathias, Elm Springs, Meade County, South Dakota.

FOR SALE by owner; 280 acre improved farm adjoining live town. Reasonable terms. Also several other good farms for sale. A. D. Kirschman, De Graff, Minnesota.

A PERFECT lying, best soil, well improved, 220 acres, three miles from Ashland; price only \$140 per acre if sold by August 1, 1910. Call on W. A. Fowler, Ashland, Nebraska.

ALFALFA LANDS for sale in Central and Western Kansas; better than a gold mine, write us. Home Land Company, Herlington, Kansas.

CASH for property, any kind, anywhere. If you want to buy, sell or exchange, address Northwestern Business Agency, Minneapolis, Minnesota.

GOOD FARM that brings \$5,000 to \$8,000 yearly profit, \$500; \$15 down, balance \$15 monthly. M. Falkenstein, Sauk City, Wisconsin.

OWNER will sell four well improved farms; 960, 480, 480, 320 acres; two to five miles from Cresbard. C. Sippel, Faulkton, South Dakota.

OLD VIRGINIA farms for sale. Send for free illustrated catalog; largest list in Virginia. Casselman & Co., Richmond, Virginia.

NEW OREGON—U auto C Laidlaw. Get a homestead; irrigated or dry farm. Send for literature. Harmon Cook, Laidlaw, Oregon.

TEXAS fruit lands for sale in the orange belt, Gulf Coast country. Write for particulars. D. S. Haycraft, Wixom, Texas.

150 CORN and alfalfa farms for sale in Saline Co., the garden spot of Kansas. Write for list. V. E. Niquette, Salina, Kansas.

FOR THE BEST bargains in Hand, Hyde or Hughes County lands, write or see J. C. McLove, Miller, South Dakota.

FOR INFORMATION about the best land, in best districts, on best terms, write Croft Land Company, Matador, Texas.

300 CHOICE FARMS in Northeast Kansas for sale. Write for descriptive list. Mainville & Bailey, Holton, Kansas.

WE CAN TRADE your property. Book of 500 exchanges free. Graham Brothers, Eldorado, Kan.

REAL ESTATE.

THREE FINE half sections of Saskatchewan land in the heart of the best wheat district. Fine black soil with clay sub-soil. Well under cultivation and good farm buildings. Price \$23 per acre; \$2,000 cash and balance arranged. Also quarter section wild land near good market town. L. E. Macomber, 349 Security Bank, Minneapolis, Minnesota.

THE OLD MAN has two of the best corn farms in Yankton County, South Dakota—200 and 220 acres. One tract, joins townsite. Possession any time; easy terms; long time. If you want a home investigate this bargain at once. A. R. Kerr, 226 Swasey Bldg., Sioux City, Iowa.

BRITISH COLUMBIA wheat farms; 35 to 50 bushels per acre; splendid market; sure crops. Three of the best paying large farms, fully equipped and in crop. Owners wealthy; wish to retire. Send for particulars. The Wright Investment Co., Ltd., Vancouver, B. C.

COME TO Wheeler county, Texas, adjoining Oklahoma, where one crop pays for land. Best agricultural county in the Panhandle. I own land, no commission to pay. \$14 per acre, easy terms. W. F. Farrer, 318 R. A. Long Bldg., Kansas City, Missouri.

BARGAIN COUNTER—Wild and improved Red River Valley farms, any size and at your own time and price, write Emil Llublad for information, Roseau, Minnesota.

KANSAS FARMS, one fifth down, balance time Dillon & Woodward, Dill, Oklahoma.

HELP WANTED.

MEN WANTED—To try coming railway mail, internal revenue and postoffice examinations, \$50 to \$125 monthly. Annual vacations. Short hours. Steady work. Common education sufficient. Over 15,000 appointments this year. Influence unnecessary. Write immediately for dates of coming examinations in your neighborhood. Candidates prepared free. Franklin Institute, Dept. T 23, Rochester, New York.

WANTED—YOUNG men who desire to learn the trade of blacksmithing, woodworking, body making, painting, trimming or machinist; also men experienced in the above trades, with a reliable concern in one of the healthiest cities in the world. Write full details, giving references, age, experience, if any, and whether single or married. Address H. V. Kimble, Care Studebakers, South Bend, Indiana.

GET A BETTER PLACE—Uncle Sam is best employer; pay is high and sure; hours short; places permanent; promotions regular; vacations with pay; thousands of vacancies every month; all kinds of pleasant work everywhere; no lay-offs; no pull needed; common education sufficient; find out how you can have a position guaranteed you by asking today for E R 804 free. Earl Hopkins, Washington, D. C.

WANTED—Motormen and conductors for street cars, firemen and brakemen for steam railways, \$50 to \$150 per month. Hundreds of vacancies. Write for particulars, American Standard Institute, Kansas City, Missouri.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination. Write for schedule and free trial lesson. Ozment, Dept. 42 R. St. Louis, Missouri.

WANT MAN to work on farm; wages 40 dollars. Must understand farm work. References required. Coal Harbor Stock Farm, Coal Harbor, N. D.

LIVE STOCK.

DOUBLE STANDARD Polled Durhams. Best Scotch breeding. "International" prospects; others cheaper. Herd officially tested. F. Bunker, Kilbourn, Wisconsin.

GUERNSEYS—"The Butter Breed"—choice youngsters; both sexes; from official record and advanced registry ancestors. A. H. Hinman, Allenville, Wisconsin.

POLAND CHINA bargains. One Meddler sow for \$30; fifteen March pigs by Keep On Meddler Jr., price \$12.50 each at weaning. S. R. Patterson, Centerville, Iowa.

FOR SALE—Registered Berkshire pigs, Barron Duke breeding, March and April farrow. Write B. A. Jacklin & Sons, Waupaca, Wisconsin.

POULTRY.

INOCULATION of chickens scientific. Oculum cures, renders immune to cholera, white diarrhea, roup. Deaths reduced eighty per cent. Quarter inoculates fifty. Hancock Inoculum Co., Box C, Salem, Virginia.

EGGS from select pens of Partridge and Columbian Wyandottes. Buff Rocks, Houdans, S. S. Hamburgs, Blue Andalusians, \$1.50 per 15. A. Arends, Blairburg, Iowa.

SINGLE COMB White Leghorn eggs, \$1 and \$2; 15 chicks, \$2 per dozen. Mrs. Wilson McIntyre, Route 6, Red Oak, Iowa.

BLUE ANDALUSIAN, Columbia Wyandotte, Silver Hamburg eggs, 30, \$2; 100, \$5.75. A. Arends, Blairburg, Iowa.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free. Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

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ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

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ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

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KODAK your stock; send customers a picture. Kodaks, \$5 to \$35. A. Brownie, 2 1/2 x 3 1/4, with complete outfit, \$4. Catalog free. F. M. Alexander, 308, Atlantic, Iowa.

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30 FINE post cards, only 10c. Mostly birthdays; no trash. German American Post Card Co., Dept. 5, Burlington, Iowa.

MISCELLANEOUS.

PLANS DRAWN for modern farm and city buildings. Our stove sile best of all. New book just out of press, "Farm, Dairy, Home," eighty pages, forty photos; twenty-five cents. Buff Jersey, Mopmouth, Illinois.

JUST OUT!—A famous delicatessen's recipe for healthful bran biscuit; also delicious salmon croquettes; both for 25c. C. Eugene Rillmer, Box 669, Omaha, Nebraska.

SAFETY RAZOR blades sharpened better than new, 2 cents each. Razors, 15 cents. Samuelson, 611 Penn Street, Kansas City, Missouri.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

UNFAIR DISCRIMINATION.

A Subscriber, Aurora, Iowa.—Where creamery companies in Iowa have stations in different towns, can they lawfully pay more for butter fat in one town than in other towns where the express rates are the same?

Answer.—The law of Iowa provides that any person, firm, association or corporation doing business in the state, and engaged in the business of buying milk, cream or butter fat, for the purpose of manufacture, or of buying poultry, eggs or grain, for the purpose of sale or storage, that shall for the purpose of creating a monopoly, or destroying the business of a competitor, discriminate between different sections, localities, communities, cities or towns of the state, by purchasing such commodity or commodities at a higher price or rate in one section, locality, community, city or town, than is paid for the same commodity by said person, firm, company, association or corporation in another section, locality, community, city or town, after making due allowance for the difference, if any, in the grade or quality, and in the actual cost of transportation from the point of purchase to the point of manufacture, sale or storage, shall be deemed guilty of unfair discrimination which is hereby prohibited, and declared to be unlawful, but prices made to meet competition in such locality shall not be in violation of the law. The penalty for a violation of this law, is a fine not less than \$500 nor more than \$5,000, or imprisonment in jail not exceeding one year, or both fine and imprisonment.

RESERVATION OF TREES—WAIVER.

A Subscriber, McGregor, Iowa.—In 1905 A owned a lot in a village in Iowa, upon which he planted fifty small evergreen trees, to be afterwards transplanted. He sold the lot to B, reserving the trees in the contract of sale, but no time for their removal was stated. In 1907, B sold the lot to C, giving the same kind of a deed he had received. In 1908, C, without having ever seen the lot, and knowing nothing about the trees, sold the lot to D, granting in the deed everything pertaining to or on the property. Can D lawfully hold the trees?

Answer.—We think that A has waived his right to the trees by neglecting to remove them and that D can lawfully hold them.

TIGHT PARTITION FENCE.

A Subscriber, Anita, Iowa.—My neighbor, who owns land adjoining mine, is about to enclose his farm with a hog-tight fence, and claims that I must make one-half of the partition fence between us hog tight. What is the law upon the subject, and what constitutes a hog-tight fence?

Answer.—The law provides that all partition fences may be made tight by the party desiring it and when his portion is so completed and securely fastened to good, substantial posts set firmly in the ground, not more than twenty feet apart, the adjoining property owner shall construct his portion of the adjoining fence in a like tight manner. All tight partition fences shall consist of not less than twenty-four inches of substantial woven wire on the bottom with three strands of barb wire with not less than thirty-six barbs of two points to the rod, on top; or not less than eighteen-inch woven wire on the bottom, with four strands of barb wire of not less than thirty-six barbs of two points to the rod on top; or good substantial woven wire, not less than forty-eight nor more than fifty-four inches high. All such fences must be not less than forty-eight nor more than fifty-four inches high.

HOG-TIGHT RAILROAD FENCE.

A Subscriber, Greene, Iowa.—We are about to complete a hog-tight woven wire fence up to the railroad company's fence. When so completed, what is the proper course to pursue to compel the railroad company to put in a lawful fence of woven wire hog and sheep tight?

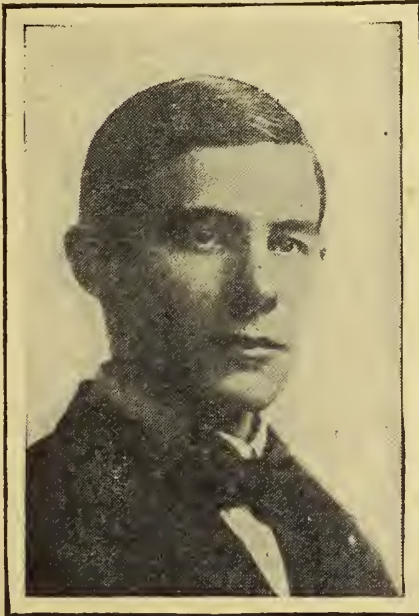
Answer.—The law provides that when any person who owns land abut-

ting upon the right of way of a railroad company, has constructed and is maintaining around his land or any part thereof, a hog-tight fence on all sides thereof except along such right of way, shall request the railroad company in writing to do so, it shall reinforce its right of way fence with such additional barb or woven wire as is necessary to make it hog tight. The law further provides that if the railroad company refuses or neglects to comply with its duty in this respect it shall be guilty of a misdemeanor and liable to a fine of not more than \$500 for each offense, and every thirty days' continuance of such refusal shall constitute a separate and distinct offense. The first thing is to notify the company in writing to fence its right of way with a hog-tight fence and if it refuses the next thing is to engage a competent lawyer to see that the penalty of the law is enforced.

NEW SECRETARY OF PERCHERON SOCIETY.

We believe that Percheron breeders in general will to a man endorse the action of the board of directors of the Percheron Society of America in electing Prof. Wayne Dinsmore as successor to George W. Stubblefield, who recently resigned from the secretaryship of the society. Professor Dinsmore, as a staff member of the animal husbandry division of the Iowa Agricultural College, has made for himself an enviable name among the stockmen of the great central West, and particularly among the farmers and stockmen of Iowa. His work as a teacher of the science of live-stock judging has attracted nation-wide attention. No school or college has won so many honors in the last ten years in judging contests as the Iowa Agricultural College—thanks to the ardent labors of this young man.

Professor Dinsmore has been before the public in the capacity of live-stock judge at shows and expositions for a number of years, and the difficult task of judging has been per-

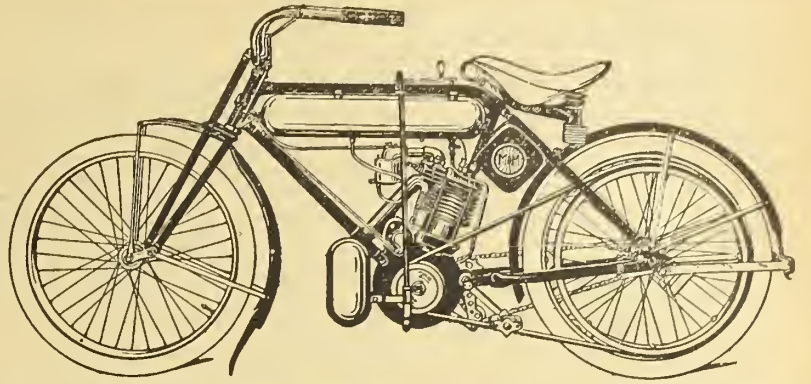


WAYNE DINSMORE.

formed by him in a singularly efficient manner. No man or no set of men have ever doubted his honesty, and in very few instances has the soundness of his judgment been questioned, a statement by the way that could not be made to apply to every college man.

Within the limits of the college circle itself, Professor Dinsmore was known as a hard worker, an effective organizer and an efficient teacher. He is systematic and thorough, and moreover he is a thrifty business man. The Percheron Society of America is indeed to be congratulated upon the wisdom of the choice of the directors, and this paper will say to the 2,600 members of that society that if they want a business-like administration of affairs in the secretary's office they can afford to give their new secretary considerable latitude, with full assurance that the Percheron interests will be advanced and that the cause of improved live stock in general will be safeguarded.

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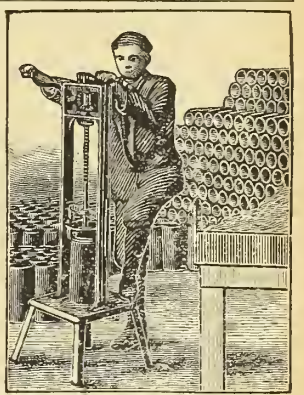
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PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

ITCHING SKIN.

I have a horse, twelve years old, in good health and good looking in every way except that he has the spavin. He does not limp, but moves his hind feet stiffly. On his hind feet, from the hoof joint upward about four inches, he has a white, dry, thick scab, which seems to itch. Do you think this is curable?

Rub the affected skin twice daily with a mixture of one part each of flowers of sulphur, tincture benzoin and spirits of camphor mixed in four parts lard. Let the spavin alone, as it does not cause lameness. If you wash the legs at any time, be sure to rub them thoroughly dry with sawdust. Oxid of zinc ointment may be applied to complete the healing as soon as the itchiness subsides.

SWEENEY.

I would like to know what remedy to use for sweeny. I have a mule that is affected on both shoulders. It is a little worse on the right side and she has had it about three weeks. She is not lame. She is three years old. I have worked her all spring, except the past week. Have done nothing for it.

If not lame, better work the mule, but not in plowing. Hand rub the wasted parts very thoroughly two or three times a day, using friction by means of a corn cob. If you do not work her rub in a mixture of equal parts turpentine and raw linseed oil once daily and stop for a time when the skin becomes sore.

INFECTION FROM NAVEL.

In a recent issue of your paper I came across the article "Saving the Foal," by Dr. A. S. Alexander. I have a colt, three weeks old, that I believe has this trouble that he speaks of, namely, navel and joint trouble. When he was about one week old I first noticed his hock joint on his left hind leg was swollen to twice its natural size. I got a bottle of liniment and put on three times daily, but this seemed to do no good. A few days later I noticed his right hind leg was swollen from the stifle down to the hock. There is a puff on each side of the left hock that gives in like a hollow rubber ball when pressed. The right hock is only slightly swollen. The navel does not heal. The mare is bay, ten years old, and weighs 1,400 pounds. It is her first colt and she foaled in the pasture. Two hours after she foaled I put the colt and mare in a box stall, kept her there two days on account of bad weather and bedded with clean wheat straw. I turn the mare and colt out on level blue grass pasture every day, but keep her up in the barn at night. I am not doing anything for the colt at present. I will thank you for any advice you can give me. The mare is sound in every way, good bone and straight limbed, in good flesh, but not fat. The colt is lame and poor.

Infection by way of the navel is the cause of the joint trouble described. Squeeze the pus out of the navel stump. It may be necessary to make an incision. Then inject full strength peroxid of hydrogen twice daily and once daily paint the external parts (swelling) with tincture of iodine. Paint the swollen joints with full strength of tincture of iodine coat by coat until the skin is black. If necessary to let pus out of the swellings in the joints, inject a mixture of one dram of iodoform and one ounce of sulphuric ether twice daily. Mix together half an ounce of tincture of echinacea and distilled water to make half a pint. Of this give the foal two teaspoonfuls every hour at first and then less often as improvement takes place. Give the mare a dram of iodoform of potash twice daily in water while the foal is sick.

SWELLING.

I have a gray mare, ten years old, weight about 1,600 pounds, that has a swelling that comes to her throat when I turn her out to pasture. When she stands in the barn or works she has no swelling except a lump about the size of a hen's egg, in the throat. When she grazes swelling extends from throat up side of jaws. It does not seem to hurt her except to make breathing difficult. When she stops grazing swelling goes down almost immediately. I have not treated her in any way. Please advise me what to do.

There may be a calculus in the duct of the parotid gland, and this could

be removed by a veterinarian. If no such cause is present, try effect of iodine ointment rubbed in each other day. Do not blister the skin; stop using the ointment for a time when the skin begins to get sore.

PERIODIC OPHTHALMIA.

I wish you would give me the following information through the columns of your paper: I have a five-year-old horse whose eyes get milky and a small, thin skin forms over them at times, which renders him sightless for a short time. This thin skin is transparent, as you can see the pupil plainly when it covers his eyes. What can I do for him?

The disease is periodic ophthalmia (moon blindness) and incurable. It will end in blindness after successive attacks. This may be somewhat retarded by giving a dram of iodoform of potash twice daily in water at time of attack and continuing for a few days after it has subsided. At such times keep eyes covered with a soft cloth to be kept wet with a solution of half a dram each of sulphate of zinc and fluid extract of belladonna leaves in a quart of cold water.

WARTS.

Will you please tell me what will take off warts? I have a nice three-year-old heifer that has three or four big warts on her udder, and I think they will spread.

If the warts have narrow necks, tie silk thread around each as tightly as possible and it soon will drop off. Rubbing masses of small warts twice daily with best castor oil causes their disappearance in time. Warts may also be snipped off with scissors and caustic applied to the wounds.

SCIRRHUS CORD.

I have a bay colt coming two years, castrated about a year ago. About the first of January I noticed a growth or water sack forming where the operation was performed, about the size of a walnut. The growth enlarged until about the middle of April it was the size of a small turkey egg. This broke and bloody, watery matter was discharged. The sack got a little smaller, but is now filling again. The exterior of the sack is raw and rough and the growth is quite hard. I have done nothing for it, and competent veterinarians are scarce here. What treatment would you advise?

A tumor has formed upon the end of cord which became attached to scrotal walls after castration. It will be necessary to dissect cord and tumor free from their attachments to scrotum and then sever cord well above tumor. It would be best to have this done by an expert. Such tumors usually come from making incisions in scrotum too small and not cutting cord high enough at castration time.

IOWA SWINE BREEDERS' MEETING.

The secretary of the Iowa Swine Breeders' Association advises us that at the summer meeting, which will take place at Des Moines, June 14th, Dr. W. B. Niles, of the bureau of animal husbandry, will give an entertaining discussion of the subject of the prevention of hog cholera by the serum treatment. As the subject is of general interest and as Dr. Niles has had charge of the department experiment farm at Ames, there will be no better opportunity than this to secure definite and reliable information. We are also advised that the secretary of agriculture has extended an invitation to the members of the Iowa Swine Breeders' Association to visit the experiment farm at Ames in a body. More complete details as to the program of the June meeting will be given in a later issue of this paper.

Brady Harris, of Missouri, is against chickens running at large, and cinches the argument with the statement in the Belton Herald that "one industrious old hen can create more ill feeling in a neighborhood than a gossiping woman."

Lewis' Single Binder, extra quality tobacco, costs no more than other 5c cigars.

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Buy Corn Belt Lands In the famous Montevideo black loam prairie district of S. W. Minnesota. \$30 per acre and up. Free pictorial and descriptive price list. Address E. H. Crandall, The Land Man, Montevideo, Minn.

AN OUTING FOR STOCKMEN.

The well-known firm of Thomas Johnson & Son, of Columbus, Ohio, have recently prepared an invitation which is intended for the stockmen of the United States. This invitation reads:

I would like for you to be present at a dinner and outing on my farm, which I am going to give to the breeders of live stock of Ohio and other states, Saturday, June 11th, for the purpose of trying to stimulate them to greater efforts in the breeding of pure-bred live stock, and also give them an opportunity to get better acquainted with each other.

I have endeavored to so arrange my program that we may have ample time for visiting, renewing old acquaintances and making new ones. After dinner, which will be served promptly at 12 o'clock we shall listen to the following speakers:

Address of Welcome. Judson Harmon, governor of Ohio; Pure-Bred Stock and General Farming, W. O. Thompson, president of O. S. U.; Future of Beef Cattle in the Middle West, Prof. Chas. F. Curtiss, Ames, Iowa; Breeding and Developing of Pure-Bred Cattle, Dr. H. F. Brown, Hillsboro, Ohio; Breeding and Developing of Pure-Bred Swine, Col. H. L. Igleheart, Nolin, Ky.

Owing to the fact that it is impossible to secure a list of all breeders, and in order that none shall be missed, I would consider it a great favor if you would extend this invitation to any breeders you may desire to have attend.

In order that we may enjoy the day to the fullest extent I would be pleased to have you come as early as possible and assist me in every way you can to make this outing a success.

Please notify me whether I may expect you or not, and if any others, state how many. I hope to receive a favorable reply, and that I may have the pleasure of meeting you at my farm on June 11th.

Mr. Johnson, who signed the above letter, asks us to repeat the statement that this invitation applies to all persons who are interested in the raising of live stock, and it is not confined to the followers of one breed. Those who contemplate taking advantage of this outing should drop a line to that effect to Thomas Johnson & Son, Columbus, Ohio.

The worst roads encountered by the Glidden pathfinders in their tour of 2,500 miles were between Kansas City and Omaha. This will be sure to make Arkansas and Tennessee jealous of the great Missouri valley.

The Stockton (Cal.) board of education proposes to introduce agriculture at the opening of the fall term of its high school, and to "teach all the high school sciences from an agricultural standpoint."

Buy Canada Land on the Crop Payment System

To show the confidence we have in our fertile district and the confidence we have that the farmers and renters of this and the adjoining states can make good in our district, we will sell 35 of our splendid improved farms upon receiving a small cash payment down and one-half the crop grown each year afterwards until paid for.

YOU WILL NEVER GET A BETTER CHANCE

to buy land at honest, face-value prices. These farms must all be sold by July 1st. Come with us at once. Don't let your corn or your neighbors keep you back. YOU CAN BE INDEPENDENT IN 5 YEARS. Five years ago the American people were exporting millions of bushels of wheat. Today they are eating every bushel, and the millers are demanding Canada wheat free of duty. The day of less than \$1 wheat is passing away. There is no investment in the world today as good as WHEAT LAND. It is going up \$5 per acre every year, and the demand will force it up to Iowa prices within a short time. When we tell you that C. Bennett one year averaged 43 bushels of wheat and 90 bushels of oats to the acre, and that H. Cadwell and W. Dornier and many others of our farmers cleared from \$4,000 to \$6,000 over all expenses last year, and that Reeder Bros., tenants on A. Benjamin's land, cleared \$3,000 from their 1/2 share last year, would you believe it? These are positive cases, and there are many more that go to prove that farming is paying handsomely in our district. We have lived in Western Canada for 21 years, and in Arcola district this past 9 years, AND HAVE SOLD OVER FORTY PIECES OF LAND there on the half-crop payment system, and every man got his deed in from three to five years.

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We are in Southeastern Saskatchewan, in the Moose Mt. Valley, only 40 miles north of the international boundary. Our land is fertile black clay loam on clay subsoil, free from stones, scrub and gumbo; has two competing lines of railway; good markets within 2 to 6 miles from all this land; abundance of good water; schools everywhere; high school in Arcola; 95% of the settlers are English speaking. The district is prosperous. Coal at \$2.25 per ton; wood in timber reserve free. Cattle, horse and hog shipments amount to about \$100,000 yearly and rapidly increasing. Grain shipments exceed \$2,500,000 yearly. Good elevators, flour mill; unlimited car supply. 65,000 bushels loaded and shipped from Arcola in one day.

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Part in bearing orchard, part in young orchard. Write today for particulars.

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Suite 251-254 Coronado Building,
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CHEAP IOWA LANDS

WE have 297 acres of wild land in Osceola County, Iowa, to offer at \$50 an acre, three and a half miles from a good town. Fine, improved farms all around. One eighty is rough; the balance is good farm land. \$1,000 cash and easy terms on the balance at 5%. Here is a snap; won't last long.

J. G. Chrysler & Son, Lake Park, Ia.

IOWA CORN AND ALFALFA FARMS

No better corn farms in the corn belt.
No better alfalfa land anywhere.
No better winter wheat land anywhere.
No waste land; no wet land.
No sand; no gravel.
Just rich, deep, black soil.
The only section in Iowa where corn and alfalfa are both extensively and successfully produced.

For sale by
H. L. CRAVEN & CO., ONAWA, IOWA.
Ask for new free list.

Lyman Co. Lands

A SNAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. HAGLER LAND CO., PRESNO, S. DAK.

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address BERT I. WELD, SLAYTON, MINNESOTA.

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In the Musselshell Valley of Central Montana, along the Milwaukee Road's new line, we own and offer for sale 23,000 acres of highly productive farming lands—also some grazing lands—at \$8.00 to \$25.00 per acre. Terms, one-third cash; balance in five equal annual instalments with interest at 6 per cent.

Excursions via Milwaukee Road on first and third Tuesdays of month. Low fares. Special car from Fargo. Come out and see these lands.

Write us for descriptive leaflet. Tell us how much land you want and how much cash you have to invest.

WHELOCK & WHELOCK Est. 1897.
25 Waldorf Block, Fargo, N. D.

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A HIGHLY improved farm of 363 acres in Thayer County, Nebraska, for \$65 per acre. Another of 240 acres in Nuckolls County, Nebraska; 65 acres in alfalfa; \$85 per acre. Ranch of 1,200 acres in Hayes County, Nebraska; fenced and fine grass land, with plenty of water; clay soil; at \$15. 325 acres in Dawson County, Nebraska; Improved; 100 acres cultivated; \$35. All money makers.

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... BUY ... South Dakota Land KADOKA, STANLEY COUNTY.

RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gift-edge farm mortgages for sale. For description, write

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HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address
The Allen Co. Investment Co., Loughton, Kan.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

MONTANA

CUT THIS OUT AND SEND TO US

.....1910.

M. A. Strang Land Co.,
Great Falls, Mont.

Gentlemen:

Please send me your list of deeded lands, illustrated folder about Cascade county, and Free Fare Coupon. I am interested in Montana.

Name

Town

R. F. D. State

Cascade county has the most productive soil in Montana. Prices at present are very low.

L. H.

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In St. Louis and Carlton Counties
MINNESOTA

NEAR fast growing cities of DULUTH and SUPERIOR. Splendid markets. Eighteen railroads. Soil fertile and well adapted to general farming, dairying and raising of garden truck. Price, \$8 to \$10 an acre. Easy terms. Lands are owned by this company, free of all incumbrances, and no reservations. Write for full particulars and information.

Boston & Duluth Farm Land Co.
No. 18 5th Ave. West, Duluth, Minn.

SEND FOR FREE BOOK COLORADO HOMESTEADS ON MOFFAT ROAD

Tells how to homestead 160 acres of rich, fertile land, with pure water, good towns, fine climate; on Moffat Road (Denver, Northwestern & Pacific Ry.), in Routt County, Colo. We have no land to sell—it's absolutely free from the Government and now open for settlement. Law allows you to return home for 6 months after filing. Oats, 90 bushels to acre; wheat, 45; barley, 70. Get a good farm free. Fine chance for investors and business openings. Write for free book, maps and information about how to get these farms free. W. F. Jones, General Traffic Manager, 704 Majestic Bldg., Denver, Colorado.

30,000 ACRES OF RICH FARMING LAND IN MONTANA

ADJACENT to railroads, comprising the famous "Seventy-nine" Ranch in the Musselshell river country. This rich land to be retailed to farmers and homeseekers at from \$7 to \$18 per acre. Many good quarters, all tillable land, \$11 to \$15 per acre. This is your chance to buy land that will produce 40 to 50 bushels of wheat per acre. Other small grain in proportion. Alfalfa, vegetables and fruit produce big crops. Plenty of water and coal. Now is your chance to buy good land cheap; 1/3 cash, balance in three equal annual payments. Write me for free map showing location of land and full particulars.

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ABOUT Southern Missouri where you can buy corn, wheat, clover and fruit lands for \$10 an acre to \$60; well improved that will make you big money from the crops and double in value within the next few years. We raise the crops and can skin the world on prices. Literature free.

J. E. HALL, Carthage, Missouri.

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In the Big Basin Country The greatest agricultural country in the world that grows wheat, oats, alfalfa and garden stuff without irrigation, and has won more prizes at the different expositions than any country in the world. Farms at \$15 to \$30 per acre, and one crop pays for your farm. Send for our free booklet and descriptions of wheat farms. Great Falls Land & Investment Co., P. O. Box 330. Great Falls, Montana.

Improved Kansas Farms

I OWN the following improved farms, all near Severy, Kan., that I will sell on a payment down and the balance on long time at low rate of interest: 80 acres at \$45 per acre, 160 acres at \$35 per acre and 320 acres at \$30 per acre. I am not a real estate dealer; simply own the land and want to sell it. If you are interested write or call and see the land. M. J. BIDWELL, Severy, Kansas.

Iowa Lands For Sale in Howard county, \$50 to \$90 per acre. Large list on request. Address, SPAULDING & O'DONNELL, Elma, Iowa.



DE LAVAL CREAM Separators

ARE NOT ONLY THE
BEST

but the cheapest in proportion to actual capacity and actual life of the machines. They are in a class by themselves.

The separator that 98% of the creamerymen use

SOLD THROUGH LOCAL AGENTS

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KILLS EVERY FLY

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30 cents worth saves \$10

worth of milk and flesh on each cow during fly season. No Lice in Poultry House or any place it is sprayed. If dealer offers substitute, send us his name and \$1 for 3-tube gravity sprayer and enough SHOO-FLY to protect 200 cows. Name express office. \$1 returned if animals not protected. Free booklet. Special terms to agents. Shoo-Fly Mfg. Co., 1328 N. 10th St., Phila., Pa. Editor knows from experience that Shoo-Fly is O. K.

Unique Construction Insures Solidity—Durability

We use 2-ft. panels of No. 1 quality lumber—every bad place cut out. These are tongued and grooved, dovetailed at the ends and put in sideways. It makes a silo tight as a drum and which stays that way. No shrinking, warping or twisting as in stave silos. All uprights in ONE PIECE. It saves the farmer and stockman pockets full of dollars to be able to get the

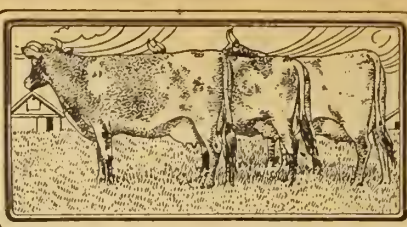
Minneapolis SILO

Panel Shrinkproof
Puffer-Hubbard Mfg. Co., Sta. L Minneapolis, Minn.
Note—We are distributors in the Northwest for the celebrated Quinn Ensilage Cutter.

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NO LIFTING, NO ADJUSTING OF DOORS. Always in their proper place either open or closed. Safety Ladder. Features found on no other silo. Cuts your feeding cost in half. Pays for itself in a season. Write today for book telling all about it.
BUSHNELL TANK WORKS
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HINGE-DOOR SILO



All communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

A GREAT SHORT-TIME RECORD.

The Holstein cow, Blanche Lyons Netherland, has recently made the greatest short-time record reported since Colantha 4th's Johanna made her sensational run. This cow, which was bred by Mr. Jay Hart, of Penfield, Ohio, and which is now owned by Mr. H. A. Moyer, of Syracuse, N. Y., produced in seven consecutive days 746.7 pounds of milk containing 27.48 pounds of butter fat; in thirty consecutive days 3,084.1 of milk containing 112.142 pounds of butter fat and in sixty consecutive days 5,473.7 pounds of milk containing 206.569 pounds of butter fat. A little figuring will show that her average yield per day was nearly 107 pounds of milk for the seven-day period; 103 pounds for the thirty-day period and ninety-one pounds for the sixty-day period. Superintendent Malcolm H. Gardner, of the advanced registry, in commenting upon the splendid record of this aged cow, has said:

The attention of critics is specially called to this test, and they will note that the seven-day period began thirty-four days after freshening, while the thirty-day period began nineteen days after. They will also note that these great quantities of milk showed no abnormal per cents of fat, but just plain, normal Holstein-Friesian averages of 3.68 per cent, 3.64 per cent and 3.77 per cent fat. Note the uniformity, and that another Holstein-Friesian cow has produced much over 100 pounds of butter fat in thirty consecutive days, while averaging over 100 pounds of milk per day. In displacing Colantha 4th's Johanna and taking her place as holder of the thirty-day record, Blanche Lyons Netherland gains very high honor.

One of the most pleasing features of this splendid record is that the cow demonstrated that after concluding an enviable seven-day test she was in "ship" shape to continue the good work for thirty, sixty days and presumably for the entire milking period. She not only made good in the short time, but also in the long-distance race.

VARIATIONS IN CREAM TESTS.

One of the most common causes for dissatisfaction in selling cream is the variation in the test. A farmer naturally thinks when the cream is from the same cows, fed the same ration, milked by the same man, and when the same separator is used, that the test, or per cent of fat in the cream should remain the same. When sudden variations occur in the test he feels that the test is incorrect. It is true errors are often made in making the test, especially in taking the samples, but variations constantly occur in cream tests that are not due to this cause, but to the conditions under which the milk is separated. It is impossible to run a separator under farm conditions without having variations in the test of the cream occur and in fact if the cream buyer should always give the same cream test, it would be more suspicious of dishonesty than when it varies slightly. Our experiments indicate the following to be the common causes of these variations:

(1) Variations in the speed of the separator; (2) variation in temperature of milk separated; (3) rate the milk flows into the machine; (4) amount of water or skim milk used in flushing out the bowl; (5) change in the richness of the milk separated; (6) adjustment of the cream screw.

Change in the speed of the separator is the most common cause of variations in the per cent of fat in cream. The greater the speed of the separator, the smaller the amount of cream and the higher the per cent of fat. A separator when run at three-quarters of the regular speed may deliver cream testing as much as 10 per cent less in fat than when the same machine is run at the regular speed. When run at the lower speed, a larger quantity

of cream is secured and it always tests lower. A variation in speed has a much greater effect upon some machines than upon others. Speed also makes a much greater variation in the test of the cream when the separator is set to deliver thick cream than is found when thin cream is separated. If the separator is adjusted to deliver cream testing 25 per cent at regular speed, the test will perhaps not be more than 2 per cent less if the machine be run only three-quarter speed of the regular speed, while if the cream screw be so adjusted that the machine run at full speed delivers cream testing 40 per cent, at three-quarter speed the test may be from 7 to 8 per cent less. This variation due to speed is not caused by a difference in the amount of fat remaining in the skim milk, but by the proportion of the whole that is taken out as cream and as skim milk. In other words, at a lower speed more skim milk goes into the cream.

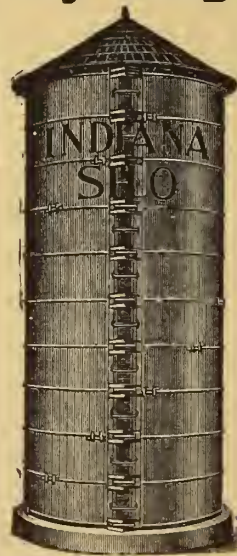
The temperature of the milk separated varies on the farm to some extent from day to day. While there is a great deal of difference with different makes of separators in regard to the effect of temperature on the test the rule is that the colder the milk, the smaller the amount of cream and the higher the test. Variations due to temperature of the milk undoubtedly are not as great as the variation due to the speed. If cream tests 30 per cent when the milk is separated at 90 degrees, it may from some machines test as high as 40 per cent when separated at 70 degrees. Under average conditions, however, on the farm cream will not vary more than 3 or 4 per cent of fat due to the changes of temperature that are apt to be found.

Separating the milk too cold also results in a loss of cream in the skim milk, but this is not the cause of the variations in the per cent of fat in the cream.

Ordinarily the rate of inflow into the hand separator is regulated by a float and does not vary to any great extent. Occasionally, however, the faucet is not fully opened and the inflow is, for this reason, less than usual. At times the supply can is kept nearly full during most of the time the machine is running and at other times allowed to be nearly empty. This may cause a small variation in the test. When the supply can is kept nearly full there is more pressure and more milk flows into the bowl. If less than the regular quantity flows into the bowl, the tendency is to increase the per cent of fat in the cream. A difference may be made of from 1 to 2 per cent with most separators by changing the level of the milk in the supply can.

The per cent of fat in the milk separated has a marked effect on the per cent of fat in the cream. It is a common impression that more cream is obtained from milk rich in fat than from that poor in fat, but such is not the case. The richness of the milk separated affects the quality but not the quantity of cream and practically the same amount is obtained whether the milk has a high or low per cent of fat. It is a well-known fact that the milk of an entire herd may vary in butter fat from one day to another due to weather or excitement, and as the cow advances in the period of lactation the richness of the milk increases. A number of fresh cows almost always means a lower cream test. These variations in the richness of the milk alone are sufficient to cause variations in the test of cream that will attract attention. The per cent of fat in milk in general is highest in autumn and early winter, and lowest in the spring and early summer. As a result of this, the cream test is generally highest during the fall and winter and drops to the lowest point in the spring and early summer. This is a change that is almost certain to be experienced by all cream sellers. If the milk of a herd of cows of whose average test is 4 per cent is separated

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C. P. Sindlinger, Shelbyville, Ind.

Made a gain of 5 pounds per day for 5 months on a steer.

R. D. Barnhill, Columbia City, Ind.

Feeds as much stock on 40 acres as his neighbors do on 100 acres. He

says "he makes \$100 each year more by using an Indiana Silo."

Howard H. Keim, Ladoga, Ind.

Bought a bunch of dry cows at \$32.00 each, fed them silage 120 days, then sold them at 5 cts. per pound, bringing him \$60.00 a head. He made more than double usual profit.

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NOTICE—We are the largest Silo Manufacturers in the World.

H. C. Hargrove, Des Moines, Iowa

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CARLOAD OF Omega Separators WHILE THEY LAST

No. 1—325-350 capacity.....\$33.00
No. 2—400-450 capacity..... 39.00
No. 3—500-550 capacity..... 43.00

It is the only Cream Separator made which has a positive bearing at both the top and bottom.

ORDER TODAY

Cedar Rapids

Machinery and Supply Company,
Cedar Rapids, Iowa.

so that the cream tests 40 per cent, and the milk suddenly drops to 3.5 per cent of fat, as will often occur, the cream will then test only 35 per cent. The amount of fat lost in the skim milk is not affected to any appreciable extent by the richness of the milk separated.

One of the most common causes of variation in the test of cream from the farm separator is a variation in the amount of water or skim milk used for flushing out the cream at the end of the run. It is apparent, that especially where a small quantity of cream is separated, a marked difference in the richness of the cream may be made by a change in the amount of water or skim milk added. It is an easy matter to vary a pint or more in the water or skim milk used and this alone may easily change the per cent of fat in the cream from 2 to 5 per cent.

The per cent of fat in the cream may be readily changed, as is well known, by adjusting the cream screw. The cream screw, however, is not changed very frequently and it is not the common cause of the variations in the test which constantly occur and which causes so much friction between the buyer and seller of cream.—(C. H. Eckles, Missouri Experiment Station.)

ON BUILDING COW BARN.

To the Editor of The Homestead:

The following communication has been received from a Minnesota subscriber:

I am building a new barn and wish your opinion in regard to building the manger or stanchions, floor, etc. The barn is 32x50 feet and arranged to have two cow barns crosswise, with the cows facing the ends and alley across center. The posts are nine and twelve feet apart, figuring three feet to a cow. I do not want partitions. Can you tell me how to make a manger or stanchion to tie the cows so they can be comfortable and yet not get dirty? How long should the stalls be and how big the gutters? Is a cement floor good for the cows? I have heard that cement cutters and gravel under the cows is better for the cows. Could you tell me how to make this? I can easily get good gravel. What kind of litter carrier is best, one which runs on a track or on a cable?

I submit herewith a floor plan of my proposed cow barn, Fig. 1, also

twelve inches above the floor in order to prevent the cows from hurting each other. From the tie a strong leather strap is fastened around the cow's neck with a ring on same. The strap

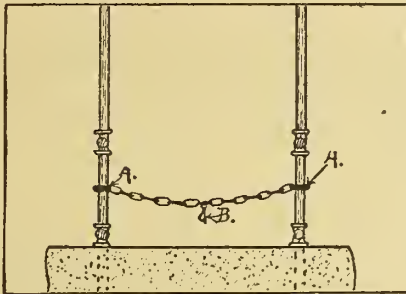
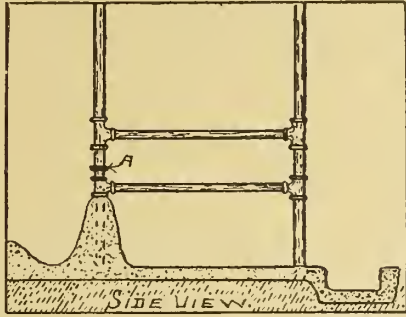


FIG. 2. STALL DESIGN.

is never removed and all that is necessary when tying the cow is to snap the ring in the snap down at (B) in the end view. The rings (AA) play up and down on the pipes giving the cow free play of the head and neck, and if the gutter is eight inches deep or more, as it should be, she will not foul herself. This is a humane tie and inexpensive. As to the best track for the hay carrier, it depends on several things. Both are good if used where they are intended to be used. For instance, the track may be long and straight, and again it may be full of short turns, etc. The manufacturers will gladly send catalogs explaining the good points of both, and as some manufacturers use both the bar and the cable track, they must both have their separate uses. The writer

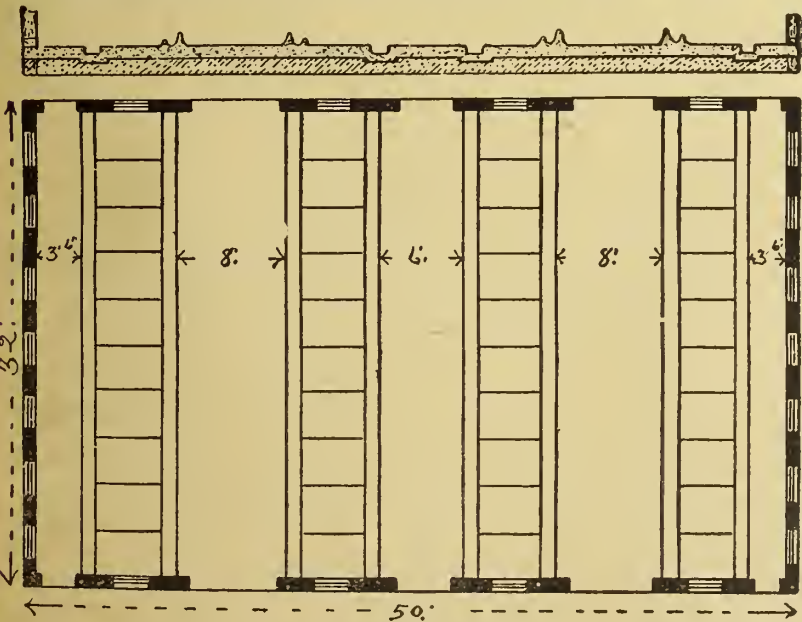


FIG. 1. FLOOR PLAN.

two views of a gas-pipe stall with a chain tie, Fig. 2. The floor would most certainly be of cement as this is the only material known for floors that will not absorb the liquids. As to the stalls, they should be graduated in size from four feet, six inches long up to fully five feet, and from three feet, six inches wide up to four feet. It is easy to get the different lengths if you build the gutter slightly crosswise of the building. The mangers and gutters should be formed at the same time the floor is built and the pipes forming the stalls set before the concrete is deposited in place. The tie is simply a chain fastened to the rings shown at (A) in both side and end views. The pipes extend to the ceiling and the sides may be filled in with heavy wire screen or left open (the writer prefers the stalls open as illustrated), but the lower pipe should be located not over

is an old builder as well as a farmer and strongly advises the correspondent to build a stucco barn; that is, two coats of cement over metal lath or better still, build it of cement blocks.

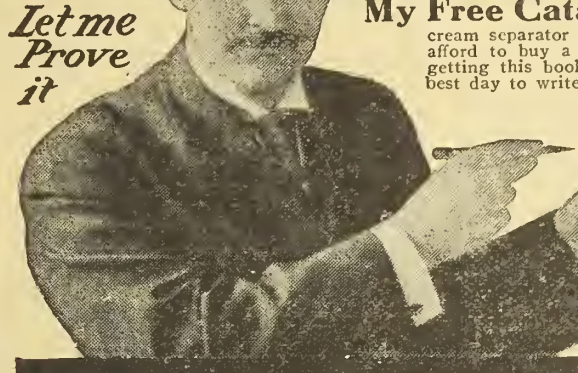
J. E. Bridgman.

RED POLLED HERD BOOK.

Volume 22 of the Red Polled Herd Book is now ready for distribution. It contains a list of members and officers, with their addresses, also copy of by-laws of the club and herd lists. In addition to this, the minutes of the last meeting are published in full, together with rules governing the club dairy test and the result for 1909. All animals are indexed alphabetically. The pedigree of bulls run from 18709 to 19971, while the cows number from 30114 to 31632. The price of this volume is \$1.75, postpaid. Those interested should write Sec. H. A. Martin, Gotham, Wis.

\$33.50 Insures You an Extra Annual Income of \$15.00 for Every Cow

Let me Prove it

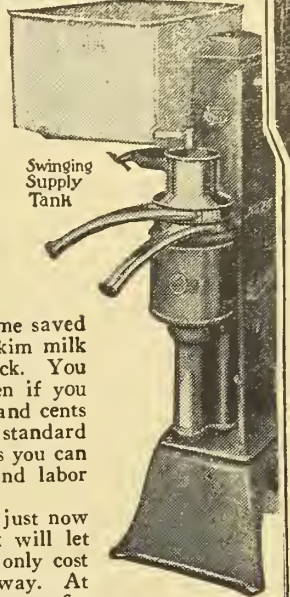


My Free Catalog is a perfect encyclopedia of cream separator knowledge. You can't afford to buy a separator without first getting this book, and this is the very best day to write for it.

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Waterloo, Iowa.
Send me your Free Cream Separator Catalog
R.F.D. #2 John Doe
A pencil a postal and it's yours for the asking

Are You Skimming by Hand?

If you are, for your own sake wake up to the fact that you are actually losing \$15.00 a year on every cow you own. This is an absolute fact. It has been



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20 Years Guarantee

All Sizes 200 to 1200 lb. Capacity

Prices from \$33.50 Up

Your money back if not satisfied

positively proven at the different experimental stations of our agricultural colleges that a good cream separator will get \$15.00 more cream annually from a cow than you can get by the gravity or hand skimming process. And then, think of the convenience—time saved—disagreeable work avoided—and the fresh, sweet skim milk which can be fed while still warm to your young stock. You can't afford to put this matter off another day. Even if you only have two cows it will pay you in actual dollars and cents to buy a machine. Just think of it, a high-grade, standard Galloway Separator for only \$33.50 or the extra profits you can make from two cows when you consider the time and labor saved worth something.

Perhaps you feel that you can't spare the money just now to buy a separator. But there's a way. Your bank will let you have the money, and even at 7% interest it will only cost you \$2.35 for the use of enough cash to buy a Galloway. At the end of the year you will have made enough in extra profits to pay back the principal and interest and have money besides to place to your credit in the bank.

But please remember that to get these results you must have a good cream separator—a machine that will get all the cream—all the butter-fat from your milk. I personally guarantee the Galloway Cream Separator to be equal in every way to the highest priced machine ever built. It is made better—of better material—skims closer—runs easier—is easier to clean—and will last longer than other machines costing from \$25 to \$40 more. I guarantee my Galloway for twenty years. I give you a free ninety days' trial to find out what it is and what it will do. Test it in any way you please. Put it alongside of any other machine you can find anywhere and if it doesn't prove the best in every way, send it back—it won't cost you a cent for the experiment, and you are to be the sole judge.

Proof!-Read This-Proof!

Wm. Galloway Co.,
Waterloo, Iowa.

Dear Sir: We are only milking four cows at present, but with the small amount of milk we get if we didn't have your separator we would use almost all the butter we make; as it is, we make 10½ pounds extra each week for some of my customers.

Yours truly,
GEO. TENNYSON,
Dudley, Iowa.

Wm. Galloway Co.,
Waterloo, Iowa.

Gentlemen: We have been separating the milk of 14 cows and since we received the Galloway Separator our monthly checks are on an average \$15.00 larger than the old way of hauling our milk to the creamery. So you see it has well paid for itself.

Yours truly,
F. W. BRIARD,
Gaylord, Minn.

NOW FIGURE THIS OUT FOR YOURSELF. Mr. Tennyson gets 10½ extra pounds of butter per week from his four cows since using the Galloway Separator. Figuring butter at a fair price, 30 cents per pound, he has increased his weekly profits from his four cows \$3.15, or \$163.80 a year. Divide this by four—the number of cows he milks—and you have \$40.95, which gives you the amount of extra profits he is making each year from each cow by the use of a Galloway Separator.

THEN FIGURE THIS ONE AND SEE THE RESULT. Mr. Briard gets \$15 a month more out of his fourteen cows than he did before buying a Galloway Separator. This means an extra cash profit of \$180.00 per year—more than enough to buy three or four Galloway Cream Separators—and then think of the trouble it saves him in not having to haul his milk to and from the creamery every day, to say nothing of the washing of the many crocks and pans.

My New Booklet, "The Proof of the Pudding"

contains hundreds of just such letters as the above—letters fairly bristling with truth and enthusiasm for the Galloway Cream Separator and every one of them written by honest men who are daily operating my machine and know just what they are talking about. This booklet is free and will be sent you, together with my catalog, if you will send me your name and address.

Now, don't put it off. Right now is the time to get these two books and learn from the experience of others how the Galloway compares with the high-priced machines—how much it saves you in first cost—how much it will make for you in extra profits—how little it costs for repairs—how easy it runs—how easy to clean—and lots of other information you will be glad to get if you are interested in a cream separator.

THE WILLIAM GALLOWAY CO.

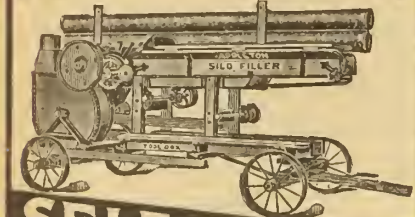
102 Galloway Station

WATERLOO, IOWA



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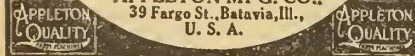
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It is built for service. It is exactly the machine you need to do profitable work in ensilage cutting and silo filling. If you have ever used an Appleton machine of any kind you know now what **APPLETON QUALITY** means in strength, in endurance, in serviceability etc. If not, it will cost you only the price of a postal card to get full information about this splendid machine, our honest guarantee, and our live and let live prices. **WRITE TODAY-NOW** **APPLETON MFG. CO.,** 39 Fargo St., Batavia, Ill., U. S. A.



Get 2¢ More For Your Wool!

Don't sell a pound of wool till you have had word from the biggest wool house in America. Those who have heeded this advice are making an extra 2c to 3c per pound on their wool.

Through us you can sell to the woolen mills and get mill prices. We are selling 20 million pounds a year to these mills. We can sell your wool for you, and our commission will be much less than your extra profit.

The Chicago market is the best in the country—the most active and aggressive. So don't even think of closing at home before we write you. Write a postal now so we may claim the proposition fully and put your name on our free mailing list for monthly market reports. **SILBERMAN BROS.,** Desk 15, Chicago, Illinois. (Established 1866.) Largest Wool House in America.

SELF-LOADING HAY RACK



ONE MAN does it all. Manufacturer of Roller Harrows. Greatest machine in the world for destroying weeds and preparing ideal seed bed at one operation. Barbed wire reeler and unreeeler. Steel beam last forever hay racks. Send for circular. **JAS. G. BAILEY,** Delavan, Ill.

ESPECIALLY BUILT FOR FARM USE



Will lift loaded wagons, threshing machines, gas engines and other heavy farm machinery. The handiest farm tool made. Every farmer finds a new use for **THE Barth JACK**. We want to mail you pre-paid our handsome illustrated booklet showing tool in actual use on the farm. If this tool will save you money, time and strength, you want to hear about it don't you! All right, What's your name and address! **Barth Mfg. Co.,** 42 L St., Milwaukee, Wis.

ADMIRAL 2-MAN PRESS FEEDS TO THE ROUND CONDENSING PACKER **ADMIRAL HAY PRESS & CO.** KANSAS CITY, MISSOURI

FREE 6-PIECE WRITING SET WITH 14-KARAT GOLD FOUNTAIN PEN. For setting 20 sets high-grade post cards, 5 cards in set, for set. When sold send us \$2.00 and we will send you a set free. Write today and get busy. **W. ART SALES AGENCY,** Box 797, Chicago.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

SOME LABOR-SAVING DEVICES.

To the Editor of The Homestead:

On our farms labor-saving devices are not as common as they should be for the highest success. Many feel, (if they do not express it), that "anything will do for the chickens." While I would be the last to favor undue expense or the procuring of unnecessary luxuries, there are certain helps and conveniences that it is "penny wise and pound foolish" to do without.

We are not referring here to good houses, which are indispensable, and need not be expensive, or to incubators and brooding systems, which cannot be dispensed with if anything like a profitable business is carried on. We mean what may be called supplementary devices, which not only save time and strength, but enable the poultry keeper to do the work in a much more efficient fashion because of their aid.

Of purchased helps, a bone-mill is desirable if one lives near a town where green bone may be bought from the meat-markets. But let no one fancy that the running of a bone mill is work for women and children. It takes a man's strength, but where this is available, the advantage this device offers in the way of furnishing a very important element in the rations of both growing chicks and matured fowls is worth more than can be easily estimated. In these days of dry feeding, feed-hoppers are almost indispensable. These may be bought or made at home without much difficulty. It means a good deal to a busy man or woman to have a device which needs filling only two or three times a week. The possibilities of the feed hoppers would require an article by itself to enumerate. Baby chicks soon learn to appease hunger at will from the ever handy little hoppers holding just the food they relish, while weak ones are not crowded to the wall by the stronger ones, but after the lusty fellows have had their fill, there is plenty of opportunity for the less vigorous to eat in peace and comfort. And so on all through the stages of life until mature fowls balance their own rations and thrive under this welcome, labor-saving method.

In winter the non-freezing drinking fountain is a boon, not only to the poultry keeper, but especially to the fowls themselves. Many a flock suffers during freezing weather because the water furnished for their needs freezes so quickly that they do not have enough for their well being. One secret of winter egg production is water in abundance. A shortage in the water supply means a shortage in winter eggs. As one writer has said, "When you ship a case of eggs you are shipping over three gallons of water." So this new device for supplying the fowls with water in winter, is not only a humane invention, but one that helps decidedly in bringing in the winter profits.

Chick founts are a necessity during the hatching season. The great loss of chicks drowned in open vessels is not necessary. There is a very simple device that can be made at home that is the best thing we have ever used in our yards. A small trough is made water tight. Holes are bored with a half-inch auger in a board fitting loosely inside the trough, floating on top when the trough is filled with water. Chicks can drink without getting wet, and the water is kept clean and pure. These troughs should be shaded from the sun. Incidentally we found, when using them, that they were just the thing in which to water bees. We were obliged, in self-defense, to put a liberal number of these troughs near the bee hives, so that the chicks would not be driven from their own water supply.

A spray pump and whitewashing machine are great helps in the battle

with insect enemies, and in the war against disease germs. We have already spoken of the green bone cutter. There are other cutting and grinding machines that would be considered necessary when once their usefulness and helpfulness had been tested. Among these are the clover cutter, the vegetable cutter, and the grit, dry bone and grain mills. The clover cutter is almost indispensable. It enables the poultryman to supply his fowls with a most succulent green food in the winter season. The machine cuts the clover into proper lengths, after which it can be steamed and fed warm, mixed with a little bran and corn meal if desired. Clover and alfalfa are very rich in mineral matter, and a daily allowance will assist materially in filling the winter egg basket. It makes a very cheap food, adds needed bulk to the ration, and the fowls are exceedingly fond of it.

This is the day of progress. New and useful things are being constantly invented, and the poultry man (or woman) who would keep up with the times must keep informed on these as well as other matters. No poultryman can afford to spend money on every new thing offered, but good judgment and experience will enable him to separate the wheat from the chaff, and recognize those of real value. **Mrs. S. B. Titterington.**

APOPLEXY.

To the Editor of The Homestead:

The following communication has been received from a subscriber:

What ails my hens and what shall I do for them? They have free range of the farm, clean, ventilated buildings for their house, plenty of sunshine, clean water to drink and plenty of sweet skimmed milk. Some mope around three or four days and their combs turn black. Others are apparently healthy, but fall from the roost during the night and die. They have been laying fine; have had as high as ninety eggs per day from my 150 hens. Will feel grateful for any assistance.

Our correspondent has no doubt been feeding very stimulating foods, such as corn, and probably boiled potatoes. Both are good in moderate quantities, but should never be fed at the same time; both are very fattening and stimulating. Those falling from the roost were affected with apoplexy, while with the others it was simply an affection of the liver brought about by the same class of feeding which resulted in indigestion, hence the enlarged and torpid livers. Remove the cause by taking away the stimulating foods; feed finely cracked grain or millet seed in litter with a little of the milk, and use the Douglas mixture in their drinking water. When you have stimulated a vigorous appetite, vary your ration as much as possible. At least one-third of their ration at this time of the year should be green food. See to it that they have plenty of grit to grind their food with. It is useless to talk of a cure in either of the above cases, just remove the cause. **C. E. Matteson.**

POINTERS.

—Mr. John M. Hall, of Williams, Iowa, breeds Single Comb Brown Leghorns. Eggs for farm range are of-

fered at the rate of \$4 per 100, or other quantities at the rates named in the advertisement on page 17.

—The Highland Poultry Farm, of Hazleton, Iowa, is offering Single Comb White Leghorn chicks at the extremely low price of \$7 for fifty. See advertisement on page 17.

—Mrs. Geo. Tutt, of Marathon, Iowa, writes that she has a good flock and can fill orders promptly. See her advertisement on page 17 offering Black Langshan eggs at \$4.50 per 100, twenty for \$1.

—We take pleasure in again calling the attention of our readers to the Buff Orpington advertisement of Mrs. O. A. Mace, of Bedford, Iowa, as it appears on page 17. She is offering eggs from strictly high-class fowls grown for size, and liberal layers. Orders should be forwarded without delay.

—Mr. Orlando Jacobs, of Mediapolis, Iowa, breeds Single Comb Brown Leghorns of the 240-egg strain. He makes a change in his advertisement on page 17 which announces that during the remainder of the season eggs will be sold at reduced rates. This is an opportunity to secure high-class stock that cannot be found elsewhere. Mr. Jacobs advises us that extra good results have followed their hatches this season.

—Dr. Evans, of LeGrand, Iowa, one of the leading breeders of the state of Single Comb Buff, Black, White and Rose Comb White Orpingtons, tells us that he has had a great trade in eggs and baby chicks this spring and that the Orpingtons are becoming more and more popular all the time. We would advise you to get his prices and place an order for some eggs or chicks. His advertisement appears on page 17. Read it.

—The thrifty growth and development of chicks is so dependent upon innumerable and varying conditions that the utmost precautions are essential to success. The slightest variations in quality of food or in temperature may at times result in difficulties of digestion of serious character. A sensible attention to the use of precautionary measures many times heads off loss from such causes. Some simple remedy, kept constantly on hands, has proven invaluable. Mr. C. K. Brentlinger, of Hardy, Okla., writes that through the use of Walker's roup and cholera cure (sold at fifty cents per package by the Walker Remedy Co., Dept. U., Lamoni, Iowa,) he has had much better luck in raising little chicks.

BROODER

WITH THE **1/2 PRICE**

Bonded SURE HATCH

During this month we will send a brooder for actual half price to every person ordering a **Sure Hatch Bonded Incubator**. This is the only incubator guaranteed and backed by a \$1,000,000 surety bond of the Bankers Surety Co., Cleveland, Ohio. We pay the freight.

SURE HATCH INCUBATOR CO.

Box 16 FREMONT, NEBR.

OLD TRUSTY

—300,000 men, women and children, beginners and old timers, are now making big money with the Old Trusty **INCUBATOR**.

Let me tell you about my 30- or 60-day free trial and 10-year guarantee offer. Write me a postal now.

M. M. Johnson, Clay Center, Neb.

BOOK FREE

Notice to HOMESEEKERS:

If you want homes in Coffey County, Kansas, please send for lists of land. Address **ANDREW BURGER, BURLINGTON, KAN.**

DOGS.

Fox Terriers King of the rat terriers. Puppies and grown stock for sale. Single Comb Reds, winners 5 silver cups and 34 ribbons, 1909-10. Eggs, \$2 per 15. **Sabot Kennels, Pella, Iowa.**

PINE Scotch Collie dog, a worker, for sale, or will trade for old or young Light Brahmas, R. I. Reds, Plymouth Rocks or any large breed. Write quick. Address **M. M. Chase, Buck Grove, Iowa.**

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. **SPRINGDALE KENNELS, Cumming, Iowa.**

COLLIES—Having decided to close out my Collies will price pups at \$6 each while they last. Breeding stock reasonable. **C. H. Drake, Hazleton Iowa.**

COLLIES—Just imported O. Sample; pups, yearling dogs, bitches. Send for list. Special—3 S. and W. bitches, 7 mos. old. **P. L. Savage, St. Charles, Ill.**

WOOL

If you want the HIGHEST PRICE for your Wool, write to me today for Price List and Special Information.

HERMAN REEL, Milwaukee, Wis.

EARLY SEED CORN

FOR LATE PLANTING

"Queen of Nishna," yellow. Pride of the North, each 80 to 90-day varieties, \$2 per bushel, bags included. Also Iowa Silver Mine and Pride of Nishna, 100-day sorts, \$1.60 per bushel. Reclaimed Cane Seed; Golden German Millet, Kafir Corn, Clean Alfalfa, Clover, Timothy and other grass seeds; Whipper-will Cowpeas; Stowell's Evergreen Sweet Corn for fodder. In fact, all kinds of farm and garden seeds. Address **RATEKIN'S SEED HOUSE, Shenandoah, Iowa.**

LEGHORNS.

"MONEY IN EGGS"

C. C. Brown Leghorns—My method and farm range has developed layers with vigor. My eggs produce layers. One-third fancier's price and better layers, \$1.50 per 30; \$3 per 60; \$4 per 100; \$6 per 200. Prompt shipment. J. E. McCarthy, Enfield, Ill.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY, 12 years with this breed, Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1; 50, \$3; 100, \$5; 200, \$9.

R. R. STEWART, R. 2, Charles City, Iowa.

ROSE COMB

BROWN LEGHORNS EXCLUSIVELY

EGGS for hatching, \$1.25 for single sitting of 15 eggs; 2 or more sittings, \$1 each; 50 eggs, \$3; 100 eggs, \$5; 200 eggs for \$9. T. A. Davenport, Belmont, Ia.

High Quality Fertile Eggs for Breeders

Spring Valley Dairy and Egg Farm, Chas. G. Jackson, Prescott, Iowa, specialty breeder world's leading egg strain thoroughbred R. and S. C. White Leghorns. Satisfaction guaranteed.

Rose Comb Brown Leghorns

Bred 17 years exclusively for quality and eggs. None better regardless of price, 20 eggs \$1; 50, \$2.50; 100, \$4; 200, \$7. Address ELLA THARP, MT. STERLING, IOWA.

S. C. B. LEGHORNS

240 Egg strain; Iowa State Show winners, 1909; scoring to 94%. Eggs balance season; 30, \$1.25; 100, \$3.50; 200, \$6.50. Orlando Jacobs, Mediapolis, Ia.

R. C. B. Leghorn eggs for hatching from farm

range; won 9 ribbons and 1 silver cup at Ames shows. Eggs, \$1 per 15; \$2.50 per 50; \$4 per 100. E. A. Taylor, Route 1, Boone, Iowa.

S. C. Brown Leghorn Eggs

From State Fair winners, \$1 per 15; \$1.50 per 50; \$3 per 100. Mrs. Will Michael, Selma, Iowa.

Rose Comb Brown Leghorns exclusively.

Eggs for hatching, \$3.50, 100. Also Rouen duck eggs. Write F. Bowman, R. 6, Eldora, Ia.

S. C. B. Leghorn eggs for hatching, 75c. per 15;

at reduced rates on incubator lots. FRED D. FOUSER, Beaconsfield, Ia.

Single Comb White Leghorns

Eggs, \$1 per 20. M. E. Page, Madrid, Iowa.

Rose Comb Brown Leghorn Eggs at 75c. per 15

or \$3.50 per 100. Mrs. John Roskamp, Kanawha, Iowa.

Rose Comb White Leghorn eggs for sale; 26

for \$1.50 or \$4 per 100. Choice stock. Joseph Kappes, Jr., Box 42, Ashton, Iowa.

Very Choice Eggs for hatching; Rose Comb B.

Leghorns; farm range; 50 eggs, \$2.50; 100, \$4. Mrs. Nelson Hyde, Manson, Iowa.

Eggs for Sale From my pure-bred Rose Comb

Brown Leghorns, \$3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

EGGS From high-scoring S. C. W. Leghorns;

choice exhibition matings; also W. Cochran bantams. Circular free. C. H. Drake, Hazleton, Ia.

S. C. Brown Leghorns Pure stock; eggs, \$1

per 15; \$1.50 per 30; \$4 per 100. Address Mrs. A. Goode, Russell, Iowa.

R. C. W. L. Elephant strain; Seattle, 1st; Ia.

State, 2 1sts, 3 2ds, state cup. Range eggs, 6% per 15; 16% per 30. Pleasanton, Ia.

SINGLE COMB WHITE LEGHORNS. Eggs, 15

for \$1.25, \$5 per 100. S. C. Rhode Island Red eggs, 15 for \$1.50. Star Poultry Farm, Elderville, Ia.

S. C. B. Leghorn eggs, pure bred, farm range;

\$3.25 per 100; Pekin ducks, 75c. for 13. Mrs. H. C. LAMBERT, ANTHON, IOWA.

S. C. White Leghorn Eggs At \$1 per sitting

or \$1 per 100. Address JOHN C. MILLER, HARKAN, Ia.

S. C. W. Leghorn Eggs Now \$1.50 and \$1 for 15;

\$4, 100. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

WANTED—S. C. W. Leghorn yearling hens; also

chicks from 2 to 3 mos. old; any number. State lowest price. American Poultry Plant, Collins, O.

S. C. B. Leghorn Eggs from farm range; \$4

per 100; \$7 per 200; \$1 per 20. Address JOHN M. HALL, Williams, Iowa.

LANGSHANS.

My Black Langshans Have won 59 regular and

special premiums including three silver cups during the past show season, and have laid during the coldest weather. Eggs, \$1, 15; \$3, 100. Margaret C. Daly, R. 4, Anamosa, Iowa.

BLACK Langshan cockerels—A few more to sell

at \$1 each from high-scoring stock. Eggs in season. Address Mrs. Sarah F. McKeen, Sac City, Ia.

BLACK LANGSHAN Eggs for sale from large

thrifty birds, farm range, \$1.00 per 15; \$1.00 per 100. Address, J. H. Rayl, Afton, Iowa.

Prize-Winning B. Langshans exclusively, scoring to

94% at Dubuque by Lambert, Eggs, 13, \$5c.; 26, \$1.50; 100, \$4.50. W. W. Baskerville, Earlville, Ia.

Black Langshans Bred exclusively; farm

range; prize winners. Eggs, \$1 per 15; \$1 per 100. F. S. Thompson, Algona, Iowa.

Black Langshan Eggs For sale; 26 for \$1.50

or \$4 per 100. Choice stock. Joseph Kappes, Jr., Box 42, Ashton, Iowa.

Black Langshan Eggs from good, thrifty stock;

many will score 95; 20 for \$1; 100 for \$4.50. Mrs. Geo. Tutt, Marathon, Ia.

BRAHMAS.

Ottumwa Poultry Yards; Light Brahmas

won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

LIGHT BRAHMA Eggs for hatching; 30 for

\$1.25; 50 for \$2; 100 for \$3.25. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

LIGHT BRAHMAS Eggs, \$1 per 15; all unfertile

eggs replaced at half price. Stock for sale. H. F. Moffitt, Afton, Iowa.

WYANDOTTES.

White Wyandotte Eggs

Balance of season, 75c. for 15; \$4 for 100. Thirty choice White Wyandotte hens, \$1 each. GEO. W. LIVINGSTON, MONROE, IA.

WHITE WYANDOTTE EGGS

FROM stay-white kind. Our birds are absolutely free from brass; good eyes and comb; very large, good shape; best of laying strain; eggs, \$1.50 per 15; \$2.25 per 30; \$6 per 100. Guarantee 75% to hatch or will replace at 1/2 price. A. J. Podendorf, Logan, Ia.

CHALKY WHITE WYANDOTTES

We pay express. Circular free. CEDAR LAWN POULTRY AND STOCK FARM, Fairfield, Neb.

WHITE WYANDOTTE EGGS

FROM best matings we ever owned, at \$1.50 per 15 and \$2.75 per 30. Satisfaction guaranteed. W. S. Gregory, Keota, Ia. "Roselawn Farm," Route 2.

WHITE Wyandottes of quality. This proves it.

Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank. J. M. Erickson, Slater, Ia.

SILVER WYANDOTTES

Eggs, 15 for \$1; 40 for \$2; 100 for \$4. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

White Wyandottes Extra good birds, true to type

farm range, bred from birds scoring 92 to 95%; satisfaction guaranteed. Eggs, \$1 per 15; \$2.50 for 50. Carl J. Hedberg, Boxholm, Ia.

DUSTON WHITE WYANDOTTE EGGS exclusively.

\$1 per 15; \$4 per 100. Blocky stay, white kind. Address, Mrs. F. O. Elliot, Kent, Iowa.

For Sale S. L. Wyandotte eggs for hatching, \$4

per 100, or 65 cents per 15. Write to CHAS. W. FARIS, IOWA FALLS, IOWA.

Silver Laced Wyandotte eggs for sale, from

good birds. Prices reasonable. Write for circulars. S. R. Young, Greenville, Iowa.

BUFF WYANDOTTE CATALOG FREE. Illinois state

winners; eggs, \$1.50 and \$3 per 15. J. S. WATSON, VAIL, IOWA.

Buff Wyandottes Eggs \$1 per sitting; \$2.50 per

40; \$5, 100. Address MRS. GRANT DAVIDSON, Corwith, Iowa.

Silver Laced Wyandotte eggs for sale, from

choice, pure-bred stock cheap remainder of season. Mrs. J. W. Lowe, Clarksville, Ia.

White Wyandotte Eggs At half price, from

high-scoring stock. Mrs. W. P. Prather, R. 6, Atlantic, Iowa.

WHITE WYANDOTTES Exclusively. Farm

range. Eggs, 20 for \$1; \$4 per 100. A. L. Surfus, Bristow, Iowa.

White Wyandottes Exclusively. Eggs from choice

farm range stock, \$1 per 15; \$4 per 100. Mrs. W. O. Harris, R. 6, Muscatine, Iowa.

RHODE ISLAND REDS.

S. C. Rhode Island Reds

TOMPKINS' strain. America's finest. Large, long-bodied, vigorous birds. Red to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$8 per 100. Circular free.

R. H. DE VAULT, BLOOMFIELD, IOWA.

S. C. Rhode Island Reds

TOMPKINS STRAIN Write for egg circular.

P. H. Thiel, Renwick, Humboldt Co., Iowa.

CLOSING-OUT SALE

OF S. C. Rhode Island Reds at summer prices, to make room for young stock. Reduction on eggs. Free catalog of valuable information. Winners at State Fair, 1909, and Omaha, 1910, only places shown. Both combs. Mrs. F. W. McIntyre, R. 5, Red Oak, Ia.

Rose Comb Cherry Reds 20th Century birds,

selected eggs (for fertility guaranteed), from high-scoring, good-laying strains. Farm range, 17 eggs, \$2; 50, \$5; 100, \$3. This ad. mailed with order brings 5 additional eggs. My birds better than ever. Orders filled promptly. Write for circular. W. W. Forbes, Box 710, Jefferson, Iowa.

R. C. Rhode Island Reds

EXCLUSIVELY. Eggs for hatching from stock scoring 90 to 94%. Write for prices and show record. H. S. Fain, Emmetsburg, Iowa.

"BIRDS THAT LAY AND PAY" R. C. R. I. Reds ex-

clusively; pen 1, trap-nested, 15 eggs, \$2; pen 2, 15 eggs, \$1.50; incubator lots, \$6 per 100. Address

MRS. CLIFF SAID, EMERSON, IOWA.

S. C. R. I. RED EGGS

From high-scoring stock. Write for egg circular. Address MAUDE TURCK, NEWTON, IOWA.

R. C. R. I. Reds. Cherry Red strain. Eggs from

5 pens; also utility yard. Scored cockerels for sale. Harry C. Blake, Maquoketa, Ia.

SINGLE COMB RHODE ISLAND REDS Pen, \$3; range,

\$1 per 15 eggs. S. T. BUSSARD, BOX 143, ESSEX, IOWA.

ROSE and Single Comb R. I. Reds; fine bred; high-

scoring eggs, 15 for \$1.50 for \$3, 100 for \$5. Good laying strains. Mrs. T. A. Gough, Bristow, Iowa.

S. C. R. I. Red Eggs \$1 for 15; \$5 for 100; fine

bred; good laying strain. Address Mrs. Sophia Rader, Laurel, Iowa.

Rose Comb R. I. Red eggs for hatching. Special

matings, \$1.50 for 15; general flock, 75c. for 15. A. A. Worthington, Media, Illinois.

S. C. Rhode Island Reds exclusively; free range,

good layers; eggs, \$5 for 100, \$1 per sitting. Write me. Address C. K. Loveland, Janesville, Iowa.

S. C. R. I. RED EGGS

75c per 15; \$4 per 100. I. C. Welch, Bedford, Iowa.

R. C. R. I. R. Eggs from high scoring stock,

\$1.25 per 15, \$3.00 per 50, \$5.00 per 100. D. E. Witmer, Polk, Iowa.

PLYMOUTH ROCKS.

Hawkins--Bradley--Thompson Barred Plymouth Rocks

THE extra eggs we send with each order may mean 500% profit on your investment and pay for your order many times over. Our yards represent all leading strains and direct descendants of leading prize winners. 18 eggs, \$1; 40, \$2; 100, \$4.50. A fair hatch and safe delivery guaranteed. Address H. C. Sanders & Son, Montezuma, Iowa. Route 1, Box 6. Interior and long distance 'phones.



219-EGG STRAIN BARRED P. ROCKS

EGGS for hatching balance of season. Where taken from all pens, 15 for \$1.25; 30 for \$2; 50 for \$2.75 and \$4 per 100. Special mating, 15 for \$2; 30 for \$3; 50 for \$5; \$8 per 100. Don't make a mistake, but send to W. A. Hartman, Box 242, Winterset, Ia.

Barred Plymouth Rock Eggs

FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weigh 10 to 12 lbs.; Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guarantee good hatch and safe delivery. Catalog free. S. V. LATCHAM, MONTEZUMA, IOWA.

B. P. ROCK Eggs for sale from extra large-boned,

nicely-marked stock; yards headed by cocks and cockerels scoring 90 to 92%; weighing 11 to 13 lbs. In five shows, including Central Iowa Show, 1909, Russell, judge, we won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths. 15 eggs, \$1.50; 30, \$2.50; guaranteed fertile. J. W. Wagner, Monroe, Ia.

CUT PRICES ON BARRED P. ROCK EGGS

THREE pens, all strongly Bradley bred; one pure-bred Bradley pen; two pens cockerel mating; one pullet mating. Special prices next thirty days. Best of stock. Mrs. L. C. Reese, Prescott, Ia.

Barred P. Rock Eggs from Blake's improved

egg-laying strain. Write for prices and my secret for raising better layers. GEO. F. BLAKE, MAQUOKETA, IOWA.

GRAY'S Barred Plymouth Rock Eggs for sale

from 50c to \$5.00 per sitting of 15 eggs. Incubator eggs \$3.00 per 100. Write for my free egg circular. J. H. Gray, Wellman, Iowa.

Eggs B. Rock, \$1 per 15; \$5 per 100. Geese eggs 25c.,

etc. Also some geese yet or sale, both sexes. Letters from satisfied customers, not one complaint. MRS. J. COCKERTON, Whiting, Iowa.

BUFF ROCK EGGS

Half price after June 1st; 75c. for 15; \$2.50 for 50; \$5 for 100. L. L. WOODS, GRINELL, IOWA.

BARRED ROCK EGGS \$1 per 15; \$4

per 100. Mrs. J. A. Campbell, Manning, Iowa.

BRADLEY STRAIN BARRED ROCKS Eggs from pens

\$1.50 per 15; from flock \$1. Mrs. Geo. Dawdy, Abingdon, Ill.

PURE bred W. P. Rock eggs for sale from scored

birds. Special price, \$1 per 13 eggs. Also a few fine ecls. White Rock Poultry Farm, Earlville, Ia.

EXCLUSIVELY—Barred Plymouth Rock eggs

from healthy, large stock. \$1 per 15, \$2.50 per 50, \$4 per 100. Address S. S. Krebill, Donnellson, Ia.

BARRED P. Rocks exclusively. Eggs from large-

boned, good-shaped, well-bred birds, \$1.25, 15; \$2.25, 30; \$3, 50; \$5, 100. Arthur T. White, Emerson, Ia.

Buff Plymouth Rock Eggs for hatching, at \$1 per

sitting or \$5 per 100. Address O. N. WOODY, Route 3, NEWTON, IOWA.

BUFF ROCK EGGS For hatching.

\$1 per 15; \$5 per 100. G. A. Holland, Rockford, Iowa.

EGGS From White P. Rocks, Fishel strain;

\$1 per 15; \$1.50 per 30; \$4 per 100. Hens, \$1 each. Mrs. E. C. Turner, Route 1, Griswold, Ia.

WHITE Plymouth Rock eggs, \$1 per 15; \$2.50 per

50; \$4 per 100. Will sell a few hens at \$1 each. Address Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

B. P. ROCKS only. Large boned, well bar., good

layers, high scoring, prize-winners, thrifty birds, fair deal. Eggs, 36, \$1.25; 100, \$3. J. M. Reeder, Earlville, Ia.

BARRED ROCKS Large, heavy-boned ecls.

Eggs in season from prize-winning strain. Frank Sauter, What Cheer, Ia.

EGGS From Barred Plymouth Rocks.

Heavyweight fowls a specialty. Write for prices. L. D. Wells, Morrisonville, Ill.

White Plymouth Rock eggs from scored stock

of Fishel strain, \$1 for 15; \$5 for 105. J. B. TRACY, Greene, Iowa.

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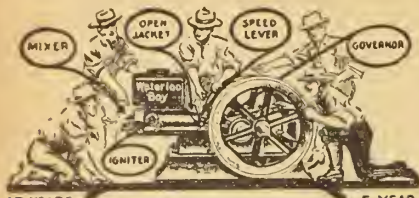
S. C. Buff, Black, White and R. C. White scored ecls.

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WITH THE EDITOR.

Gentlemen of the old school are given to lamenting that the modern man is lacking in chivalry; that he no longer regards woman with the adoring reverence which marked the attitude of gentlemen of an earlier day.

There is undoubtedly a difference in the attitude of the man of today towards women, if one may judge by his behavior, but whether it is all loss or not is a question.

Fifty years ago a southern man who would draw his sword to resent an insult to a woman of his family would gamble away the dower of his wife and the substance of his children the same night. The world can spare chivalry of that type.

A few years ago Paris and the civilized world was shame-stricken and amazed by the conduct of society men, scions of the so-called best families in France, who saved their own lives at the expense of those of women and children at the charity bazaar fire. A dozen times since plain men of the people have wiped out the blot made by their social betters on the page of history. Only a few weeks ago, when the loss of a ship was imminent, men stood back at the word of the captain in order that the women and children might have the first chance of safety. Similar incidents have occurred from time to time, on land as well as sea.

At Wilkesbarre, Pa., while a party of boys and girls were out boating, an accident occurred and the whole party was precipitated into the water. The girls could not swim, the boys could, and all but one boy swam off leaving the girls to sink or swim. One boy turned back, but too late; he perished with the girls.

About the time of this happening a judge sentencing a man for beating his wife and daughter expressed regret that it was not in his power to send him to the whipping post. He said that in his judgment a man who would strike, let alone kick, the woman he had sworn to love and cherish, could be reached only through his body; that if he had his way he would put a brand upon him and send him forth to be a scorn and a by-word among decent people.

We in this Home Department can perhaps do little to better existing evils, but we can do considerable to make better future conditions.

If fathers who feel that women should be honored as the mothers of the race and the helpmeets of men cultivate the habit of courteous speech and action they make, wherever they go, an atmosphere of considerateness and politeness which is far-reaching. In the home it is especially desirable that the father show by his manner that he honors the mother of his children. If he does his boys will catch the spirit; they will be reverent of their mother and considerate of their sisters, and foundations of chivalrous feeling and conduct will be laid.

The mother has in some ways even more to do than the father in so training her boys that the habit of consideration for women becomes an instinct. The trouble with those Parisians who so disgraced their sex was that they had only the veneer of chivalry; at heart they were male beasts, and when the hour of trial came the garment of civilization fell away from them, revealing them in their horrid nakedness. The Wilkesbarre boys seem to belong to the same class. The only way to prevent a recurrence of such pitiable exhibitions is for the mothers to begin with their boys while they are babies, and while their hearts are tender rouse the instinct of protection, the exercise of which does so much to develop a manly boy.

There is too much unconscious teaching that boys should have the best. When John is given all the advantages and Mary denied the lessons her heart craves; when John is

paid for his work on the farm or given stock, or promised an interest in the crop while Mary, toiling from sun to sun to help mother make the home, receives nothing but her board and clothes, John is being guided into the path of the boys who let their girl companions drown, the path which the Paris swells followed to their undoing.

Owing to an economic evolution which has revolutionized society, women are doing things today which make them the business rivals of men. This does not, and never can, alter the fact that physically man has the advantage of the woman, that under the law man is the head of the family. It is his privilege to protect, to cherish, to honor and to seek the safety and well-being of woman first; his own second. And when he ceases to avail himself of it a beautiful thing goes out of life, a something which has ennobled his sex and enriched the world.

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY—IF I CAN LIVE.

If I can live
To make some pale face brighter, and
to give
A second luster to some tear-dimmed
eye,
Or e'en impart
One throb of comfort to an aching
heart,
Or cheer some wayworn soul in passing
by;

If I can lend
A strong hand to the fallen, or defend
The right against a single envious
strain,
My life, though bare,
Perhaps of much that seemeth dear
and fair
To us on earth, will not have been in
vain.

The purest joy,
Most near to heaven, far from earth's
alloy,
Is bidding clouds give way to sun
and shine
And 'twill be well
If on that day of days the angels tell
Of me: "She did her best for one of
thine."

—Helen Hunt Jackson.

TO GET RID OF FLIES.

To clear a room of flies carbolic acid may be used. Heat a shovel or any similar article and drop thereon twenty drops of carbolic acid. The vapor kills the flies.

A cheap and perfectly reliable fly poison, one which is not dangerous to human life, is bichromate of potash in solution. Dissolve one dram, which can be bought at any drug store, in two ounces of water and add a little sugar. Put some of this solution in shallow dishes and distribute them about the house.

Sticky fly paper, traps and liquid poisons are among the things to use in killing flies, but the latest, cheapest and best is a solution of formalin or formaldehyde in water. A spoonful of this liquid put into a quarter of a pint of water and exposed in the room will be enough to kill all the flies. They seem to be fond of this water. Care should be taken to place it beyond the reach of children.

To quickly clear the room where there are many flies, burn pyrethrum powder in the room. This stupefies the flies, when they may be swept up and burned.—Kansas State Bulletin.

CASSEROLE COOKERY.

A casserole is a heavy earthenware dish with a cover. A substitute for it can be made by using any heavy earthenware dish with a heavy plate or saucer for a cover. A casserole presentable enough in appearance to be put on the table serves the double purpose of baking and serving dish. A suitable cut of beef or veal, and it may be one of the cheaper cuts, as the long, slow cooking insures tenderness, may be cooked in a casserole. Poultry and other meats besides beef or veal can be cooked in this manner. Chicken cooked in a casserole, which is a favorite and expensive dish in good hotels and restaurants, may be easily prepared in the home, and casserole cookery is to be recommended for a tough chicken. The heat must be moderate and the cooking must occupy a long time. Hurried cooking in a casserole is out of the question. If care is taken in this particular and suitable seasonings are used, few who know anything of cooking should go astray.

FOR SPRINGTIME.

Caramel Custard.—Put a half cupful sugar in a smooth frying pan and stir

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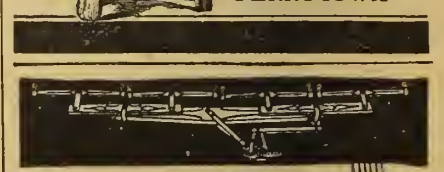
It's crammed so full of human interest and every day common sense it will read like a story book. But as soon as you get beyond paragraph one you'll see it's grim truth, every word of it. You can't enjoy bending over a scrub board. Yet clothes have to be washed once in so often, whether you feel like it or not. This book tells how you can cheerily do the wash even if you don't feel good—how you can cut your Monday troubles square in two. It describes in all its wonderful detail, the

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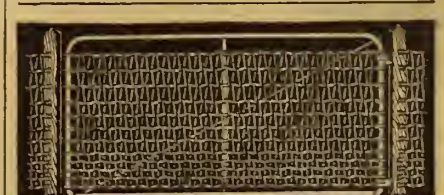
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until it melts and takes on a rich brown color. Add to a plain custard, made as usual, but lessening the amount of sugar and flavoring with vanilla.

Baked Rhubarb.—Cut the rhubarb in pieces about an inch long, put them in an earthen pieplate, then cover heavily with sugar and bake. Serve with cream and a plain cake for dessert. Do not bake the rhubarb in a tin plate. Use the earthenware pieplate and there will be no danger from the acid.

Dandelions and Sorrel.—Take an equal quantity dandelions and fresh sorrel leaves. Look over, carefully reject everything that seems unfitted for eating, then wash thoroughly, through three or four waters. Put the dandelions first into a saucepan, cover with boiling water and cook until nearly tender. Add the sorrel and simmer until the water has nearly evaporated and the greens are tender. Press out all the water remaining, chop fine, season with salt, pepper and plenty of butter, and serve like spinach, with a garnish of poached eggs or hard-boiled eggs sliced.

AMONG OURSELVES.

Some splendid advice is waiting for Nameless. If she can be persuaded to consider it carefully and adapt it to her special needs she cannot fail to be greatly helped. For today we will take two of the letters received and next week consider a number of others. Mrs. E. F. Harris states the case and the remedy, as she sees it, for the trouble in a clear and concise fashion:

Like "Nameless," I have been a silent reader also, and I think, like the editor, that someone should come forward, and come forward quickly, to the cry of distress of "Nameless." Personally I do not think her case nearly so hopeless as she would have us believe. I can imagine just about how she felt when her brother went to college and she was left on the farm with no young people her own age and the welcoming of anyone to break the monotony. Now, "Nameless," didn't you just drift along into this engagement, through the lonesomeness of it all, until you thought that this marriage would change the face of everything for you? You thought you loved him I am sure; and the fact of your parents making you break the engagement would naturally make you hug your little romance closer to your heart and idealize it; whereas if everything had been satisfactory, everybody pleased, you, at twenty would, I am safe in saying, have broken your engagement yourself. Believe me, I know something of the wearing lonesomeness of a farm seventeen miles from town, with nothing but the cows and the familiar objects that under certain conditions one can grow to hate. Twenty-five years is too great a span to bridge with twenty, and if he has said since his marriage that he still thinks as much of you as ever, then you are doubly saved from such a man. Every good woman has a poor opinion of a man who goes to his old sweetheart and tells her that he and his wife do not live congenially. It speaks for itself. Just bring some of that brown-handed, self-reliant country courage to your aid and stay where you are. You may not have lived much in your twenty years, but surrounded by your parents and brother you have yet a long vista of years, in the nature of things, to live. Why not try out for a year? Cultivate his wife; make him recognize his duty as a husband and citizen; build up such a breastworks of defense that no amount of sentimental ammunition can penetrate your armor. At the end of the year you will have taught him his lesson and in so doing will have learned the greatest one for yourself.

With much of what Mrs. Harris has said I thoroughly agree, but unless "Nameless" is stronger than most girls of her age, I should not recommend cultivating her old sweetheart's wife for the reason that such a course would involve seeing much of him, which, while she inclines to think herself still in love with him, would be painful, if not unsafe.

I incline rather to the view of M. W. B., who believes in the curative powers of absence to make the heart less fond:

Noticing a request from "Nameless" for help in a very trying situation I feel called upon to send a few lines for Among Ourselves, which department is a source of much enjoyment to me. In reply to the question, "Shall I continue to live here or shall I move away?" I would say, by all means move away. Go to school with brother, if possible, but if not, go to some different locality and get a new view-point. I would avoid that man as I would a serpent. No true man would do as he is doing. How would one enjoy being the wife with whom he cannot live happily while he is meeting some unsophisticated young girl and telling her his troubles? Had he been half worthy of you he would have spared you the pain of seeing him again after his marriage. As to your ever caring for any other—leave that to God, and the future, and if none more suitable in age and worthy in character appears, it will be far better to remain single until the last. Some of our grandest women never marry.

Before leaving this subject, to be

resumed next week, let me say that the letters received make me proud of our circle. Not one of them but goes right to the root of the matter, which is that the man having married another does wrong to speak of love to his old sweetheart and that "Nameless" does wrong if she hearkens to him.

"Ranchman" and "Pedagogue" have both come in for considerable criticism. Suppose we hear N. Y. Friend first:

I have been a faithful reader of the Home Department for several months and am greatly interested in the various topics that are brought up for discussion. But never have I been moved to write until I read the article by "Pedagogue" in the April 28th paper, and when I had read this article my whole heart arose to rebuke him. When he says no woman can love a man who is younger than herself, I say he does not know all he is saying; for I am a young lady, old enough to know my mind and heart's desires, and I say here no truer love, admiration and respect can be given by one to another than that which is given by me to a noble, Christian young man who is two years my junior. We have been lovers for three years—long enough for us to know each other almost perfectly. We have the love that grows sweeter and stronger as the days pass, and the time draws nearer when we are to be made husband and wife. I know we love each other as much as it is possible for two persons to love, this side of the "heavenly home." I want to say to the one who is not sure that she really and truly loves him, just let one or the other leave for some months and if her life doesn't seem blank, bleak and alone she hasn't the true love. For I speak from experience, for since our love has come to us, duty has called him to be absent at a distance some months. You will find that you can hardly wait for the trains to come in, then it seems an awful long time till the mail is distributed. And when "the letter" is handed you, you rush to your room and you are lost to the world till the contents of that precious missive are devoured. Hoping this may help someone, I will close with this thought, that no one knows what real love is until that love comes, but when it does come you will know it is love, and a love that is here to stay till death doth part.

A love that has stood the test of a three years' engagement surely gives the right to an opinion, at least.

A letter from Vardemond takes a similar view and asks some pertinent questions:

In the April 28th number I see a letter from "Pedagogue" saying some things which I don't think he really can believe. He says, "As for a woman marrying a man younger than she is, no love can be possible on her side in such event, for no woman ever respected a man younger than she." I certainly disagree with him. It seems to me that if he ever loved a woman he could understand the course of love better than that. God says, "Whomsoever I have joined, let no man put asunder," and if God joins people's hearts, it would not always be necessary that the man be the older. I know from experience something about the way of love. I love a man younger than myself with a love as true as can be. I have more true love and respect for this man than I could ever have for a man twice my age. I have had people say to me that it was not a wise idea to marry a man younger than myself, for the reason that a woman grows old much faster than a man. While this is true in most cases, if we are truly in love with each other we shouldn't care about ages or growing old. Of course I would not think it advisable for a woman of thirty-five or forty to marry a boy of sixteen or twenty, but I don't think four or five years could ever make much difference. I think God would come about as near joining the hearts of a man twenty-one and a woman twenty-five or thirty as he would a man of sixty and a girl sixteen. "Pedagogue" did not say what about the love and respect of a man for a woman older than himself.

There are some other letters for "Pedagogue," but we shall turn our attention to "Ranchman," who so offends "Missourian" that she speaks her mind pretty plainly:

I have misplaced the April 7th issue and have not read "Ranchman's" letter to "Undecided." All I know of it I gather from the replies of "Farmer John" and "Pedagogue." I cannot conceive that God Almighty would create a human body and instead of endowing it with the mind and soul of man would fill it with the groveling instincts of a brute. But we will not blame him for it. We consider "Ranchman" a freak of nature and sincerely hope the only one of that variety. If I thought we had any men of his type in our community I would not allow my young daughters to venture out without protection. How much respect, think you, has "Ranchman's" sons and daughters for him? Very little, I think, if they realized that he cast "longing eyes" upon their young lady friends. And all because the patient, long-suffering wife and mother is beginning to look faded and careworn. Now "Ranchman" may be courting controversy, or he may speak more from observation than experience. But if he is among the de-

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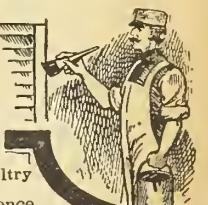


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generates who are "built that way," and there is no help for it, the best thing he can do for himself and family is to go into his bedroom, shut the windows good and tight, turn on the gas—and may the Lord have mercy on his soul!

And now for something altogether different for the close of our program. A. B. C. comes with a word about the separator:

I agree with M. G. B. about the separator in every respect except one, that is about the washing of the machine. We have the separator claimed to be the easiest machine made for washing purpose, and have had it about nine months. There are no small disks in it or anything like that. All there is inside the bowl is a dividing wall shaped like a small bottomless tin cup. And it always takes about one-half hour to wash the separator and four milk pails. In cool weather we only wash it every other day. Some around here even leave it three days. Of course we always flush it with half a pail of cold water as soon as milking is over. I'd never go to skimming milk again, no, never. We ship our cream and get twice, yes, more than three times as much profit as when I skimmed milk. I will tell you my own experience. I didn't wipe my bowl of separator at first and it got rusty where it connects onto the spindle and that made the bowl wobble so we couldn't turn it, till we scratched the rust out. Everything takes time and patience to be kept clean. But I'd sooner wash the separator any time than skim a batch of milk. My husband says you lose money every time you turn the old churn handle around, so sisters, send your cream away if you can. We always get our cans brought to the house filled with nice buttermilk.

Let us hear from others. Separators and incubators are among the vital interests in farm life. We could give them considerable attention without overdoing them in the least.

Before we adjourn let me ask for a remedy for ants. They are tiny creatures and are infesting the house. "Complainer" writes that they are simply overrun, the very beds are not free from them. Quick to her help, you who know of a remedy.

DRESSMAKING—NO. 78.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Tucked waists are always smart and always needed. Nothing else is quite so practical for general wear. This season they are made from pongees, from washable silks, as well as from linen and cotton materials, and a great many women like the thinner lawns treated in this way quite as well as the heavier linens, madras and the like.



[6616 Tucked Blouse or Shirt Waist, 32 to 42 Bust.]

This model suits all the materials available for waists of the sort and can be utilized with equal success for the gown and for the odd waist. It is finished in a distinctly novel manner at the front edge. There are three tiny tucks with a deep return, which allows of making the buttonholes as

illustrated and the finish is an eminently attractive one. The wide tucks at the shoulders give the fashionable broad effect and the lines are altogether satisfactory. The sleeves are in shirt waist style, but finished with straight facings in place of overlaps. The jabot is a pretty and simple one that can be embroidered as illustrated or in any way that may be liked.

The waist is made with fronts and back. The sleeves are in one piece each and are finished with openings and straight cuffs. The neck is finished with a neck-band over which can be adjusted the high turned-over collar or any fancy one. The jabot is made in one piece, plaited on indicated lines.

The quantity of material required for the medium size is 3 3/4 yards 21 or 24, 3 1/2 yards 27 or 1 1/2 yards 44 inches wide with 1 yard of edging for the jabot.

The pattern 6616 is cut in sizes for a 32, 34, 36, 38, 40 and 42 inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

Princess dresses are always pretty for the school girls and this one is made with a panel at the front that can be treated in a number of ways. As illustrated it is made from all-over embroidery and the dress is of mercer-



[6619 Girl's Tucked Princess Dress, 8 to 14 Years.]

ized batiste with trimming of embroidered flouncing, but suitable materials are many. The slightly older girls will find the dress a good one for graduation and occasions of the sort when it would be pretty made from embroidered batiste or Swiss muslin with trimming of lace, but for general summer wear it would be very dainty made from flowered organdie or lawn with the panel of the same or white as liked. Hand embroidery could be used to good advantage, too, for this dress made of lawn, either linen or cotton, the panel embroidered, the trimming banding of lace, the flounce and bretelles of the material trimmed with lace, would be dainty and attractive in the extreme.

The dress is made with the panel and the side front portions, backs and side-backs and the flounce is straight and gathered and joined to the lower edge. The bretelles are made with straight outer edges, too, and are arranged on indicated lines. The sleeves are cut in one piece each. When left plain they are slightly longer than when tucked, but in either case they are gathered into bands. When the collar is desired it is joined to the neck edge.

The quantity of material required for the medium size (12 years) is 4 yards 24 or 27, 4 3/4 yards 32 or 2 3/4 yards 44 inches wide with 4 3/4 yards of flouncing 10 inches wide, 7 yards of banding to make as illustrated; or 6 yards of plain material 24 or 27, 4 3/4 yards 32 or 2 3/4 yards 44 inches wide.

The pattern 6619 is cut in sizes for girls of 8, 10, 12 and 14 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

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THE YOUNG FOLKS

HELPS HER PAPA FARM.

I am a little girl, fourteen years of age. I have three sisters and one brother. My brother is a cripple and can't work at all. We live on the farm and my sisters and I have to help papa. We hoe and pick cotton and help papa gather corn. We raise Irish and sweet potatoes. We also have a nice orchard and we make our living at home. What I like best is house-keeping and helping mama with the poultry. I think the hardest work is preparing the land for planting.

Gertie Blackwell.

Tends the Chickens.

I am ten years old. I have taken care of mama's chickens a good deal and I will say that I like that about as well as anything about the farm. I like to do house work, such as sweeping and making beds. I have this to do almost all the time, that is, I help my sisters. I have two sisters older than myself, Marie being thirteen and Edith twelve, and I have three sisters and three brothers younger.

Edna Covey.

On a Dakota Farm.

I am a little girl ten years old. I go to school every day. We live a mile from school. I am in the fifth grade. My teacher's name is Miss Nesmith. I have one sister and one brother. I have a pony named Dolly and I like to ride her. I go after the cows and get the mail. I like to help my papa and mama. I hunt eggs and help milk cows. We live a mile from church. I go to church and Sunday-school every Sunday. We live ten miles from Westington Springs, S. D. It is a nice town. We used to live in Missouri, but have been out here for three years. We like it very much. I have a little pet dog and I like to play with him. I like to live on the farm because I can have all kinds of pets and help mama raise chickens.

Marie M. Kolbe.

Country Better Than City.

I am a girl, thirteen years of age. I live on a farm of 360 acres and I like it very well. I think I could not compare it with city life. In the country one can get fresh milk and the nice cool water. It is hard to tell what is best about the farm, but I think I prefer baking or house work. I go to a country school with eighteen scholars. I take seven studies and like most of them very well. I have four sisters and two brothers and there are five of us that go to school. My father built a new barn last summer and this winter it was very nice for the stock. We live about twelve rods from the postoffice, so we get our mail daily. I go to a Swedish Sunday-school every Sunday.

Edna Olin.

Fun With Sugar Cane.

I am a little girl, fourteen years old, and go to school every day. I am in the sixth grade and my teacher's name is Miss Eason. I like her very much. I like farm work. I am a little farm daughter and live on a fifty-acre farm in cultivation and pasture. My papa has two horses and two cows. I have three sisters and four brothers. They help my papa on the farm a great deal. What I like about farm work is to hoe cotton and pick it. Then in the summer time you can have a nice time in the woods and I like to pick cotton and have money and then have a horse and go horseback riding and ride to church every Sunday. I go to the Christian church. Then you can have sugar cane on the farm and in the summer time you can go down and eat some sugar cane with your friends. You can have all kinds of vegetables on the table for dinner. My mother has raised 200 chickens this year, and every evening I go and help her do the work. I have six pets, four rabbits, one cat and one dog. In the summer time you look out in the fields and see the green grass and it looks so pretty.

In our garden we have one bushel of English peas and two bushels of Irish potatoes and have radishes and cabbage.

Ethel Bates.

This Girl Has Three Pets.

I am a little girl twelve years old. I live on a farm of forty acres and help do the housework. I like to tend the chickens very much. I have three pets, a dog, a cat and a chicken. I like to live on the farm better than in town. I can go to the woods and gather flowers in the summer-time. I have two sisters and two brothers. We have two horses and one cow. I help my mother raise chickens. I like to go to school very much. We live about two miles from town and live three-quarters of a mile from the schoolhouse. Our native home was Tennessee and we moved

to Kentucky where we lived four years, and then moved to Illinois where we have lived for almost seven years.

Ruby L. Bryan.

Papa Uses a Gang Plow.

I am a little girl nine years old. I live in the country and go to a country school. We have four and a half miles to go to school. It is too far for me to walk and I am too little to drive alone, so the teacher boarded with us last winter and he brought us to and from school. Our teacher's name is John J. Lohr and we all like him very much. Our school was out April 15th. We have two pet rabbits. We live on a 320-acre farm. I have a little brother, seven years old, whose name is Alton. I like to wash dishes, also gather the eggs. We have four cats, named Jim, Snow, Rain, Daisy. Papa is plowing with a gang plow; he uses five horses.

Helen Swanson.

Trouble With the Bees.

I have been reading the Young Folks column in your paper. I am a girl thirteen years old. I am in the eighth grade and live on a farm about four miles from town. We have about eighty-five beehives. We have a large

orchard and have all the apples we need. One day last summer I was standing up in an apple tree picking apples. It was very warm that day, so I went barefoot. In the afternoon, as I was standing there, I dropped an apple on a beehive and, of course, the bees got very angry and came after me. They stung me all around my feet, my face and hands, and I certainly did feel miserable, but after that I was more careful.

I also met with another accident. My cousins, Miss Shervey and Miss Olson, were over here one Sunday. My brother had been out in the orchard and had teased the bees and when we went out to get some apples the bees got after us. We certainly did get a lot of stings and I was pretty well swollen, but I soon got better.

Amy Anderson.

Geese for Pets.

I am a girl thirteen years old. I go to country school and am in the eighth grade. My teacher's name is Miss Miller and I like her very much. We live on a farm of 160 acres about five miles from town. My mama raises chickens. She has about fifty now that hatched on St. Valentine's day from our hens. Last summer she raised nearly 300. My papa has ten head of horses and about thirty-three head of cattle. He has three little calves in the barn. We have a creek in our pasture which the ducks and geese like to swim in in the summer. In the winter it is frozen and I go skating. I have three pets, two cats and one dog. Last summer I tried to raise some geese and ducks, but something caught the little ducks. I raised three of the geese and they were my little pets. Whenever I was outside they would always come to me because they thought I would feed them. Our nearest town is Holstein, Iowa. It is small, but still it is a nice little town. There are three churches, the Methodist, Lutheran and Catholic. We do not attend church, as it is too far to drive.

Florice Estlick.

A Rapid Berry Picker.

I am a little girl eight years old and live with my grandpa. I go to school and study reading, arithmetic, language and spelling. I have a mile and a quarter to go to school. We live on a twenty-acre farm, a mile and a half from Knoxville. We have strawberries, blackberries, raspberries, pears, peaches, apples, cherries, grapes and plums. I could pick over a crate of strawberries in half a day. I live in a new house with eight rooms in it.

Gerene Snow.

Wisconsin Guernsey Sale.

The Fox River Valley Guernsey Breeders' Association held its first annual sale at Appleton, Wis., on May 19th, and the event was a success from more standpoints than one. Financially, the sale was highly gratifying. Fifty-six head of pure-bred animals, including many young things, were sold for \$9,690. But the most pleasing feature of the sale was that it simply put the Fox River Valley on the Guernsey map of the country. The association, which has its headquarters at Appleton, Wis., is the first organization of its kind to hold a public sale of Guernsey cattle and, as a result of its splendid initiative, Guernsey stock has jumped well above par in northeastern Wisconsin. The sale also provided further evidence to the contention that the state of Iowa is rapidly forging to the front in dairy lines. Three Hawkeye farmers, Messrs. U. S. Grant, of Brooklyn; A. O. Anderson, Inwood, Iowa; W. J. Laird, Shiocton; N. C. Bahnson, Inwood, Iowa; Jacob Rosholt, Scandinavia; E. G. Van Heukelom, Appleton; C. A. Wussow, Seymour; Bert Parish, Whitewater; Edwin Hensel, New Ulm, Minn.; U. S. Grant, Brooklyn, Iowa; Alvin Parish, Whitewater; Anton Schmit, Greenville; C. E. Martin, Minier, Ill.; R. O. Hargrave, Ripon; A. G. Brusewitz, Cicero; Wm. Breiterich, Greenville; John Frederick, Appleton; W. G. Jamison, Appleton; David Fuller, Ripon; Henry Jansen, Little Chute; Louis McGrath, Chilton; Robert Zeitler, Luxemburg; John Van Ooven, Appleton; Hary Leppla, Appleton; A. M. Bickford, Prairie du Sac; Gustave Seefeldt, Van Dyne; John Heenan, Grand Chute; C. G. Wilcox, Depere; J. D. McAllister, Green Bay.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair Tennyson.

The International Sunday School Lesson

SECOND QUARTER.

Lesson IX.—Matt. XIV., 13-21; XV., 29-31.

May 29, 1910

THE MULTITUDE FED.

Prudence suggested retirement. Weariness demanded it. The retreat would also afford the apostles an opportunity to report more minutely to the master the experiences of their trial trip two and two through Galilee, from which they had just returned. So the boat which had been chartered for Jesus and "waited upon him," was employed to put the weary toilers beyond the reach of the multitudes that pressed upon them even at meal times. Head winds probably drove the little bark near shore, and retarded its progress. Clandestine as the departure had been, it failed of its purpose. An ever-augmenting throng hurried around the head of the lake, and probably apprised some pilgrim caravans to the passover of the coming of the great Nazarene. So, when Jesus' boat ran its keel upon the pebbly shore, there stood 5,000 men, not to mention the women and children. So far from being irritated by this foiling of his plans, Jesus' heart was touched to pity at sight of the shepherdless flock, and he began at once to instruct them in many phases of the doctrine of grace. In the absorbing interest of the theme, neither teacher nor taught observed how the sun was dipping to the western horizon. But the commissary of the apostolic college suddenly awoke to the situation. Five regiments; and no stores on hand, or any country to forage upon. After some questions on Jesus' part, calculated to test his disciples' faith, but to which they respond with phenomenal obtuseness, he prepares to work what, in some respects, was his most remarkable and significant miracle. The material basis of the miracle was paltry in the extreme.

But one poor fisher's rude and scanty store,
Is all he asks (and more than needs),
Who men and angels daily feeds.

There is a vivid descriptive touch in the Greek which does not appear in our version. Under Jesus' direction the confused throng was resolved into the order of a French parterre. He had them sit platwise, so that they looked, in their high-colored garments, like veritable flower beds with green turf intervening. After the cheerful grace, which Jesus never omits, he puts a morsel of bread and fish in the hand of each apostle, and sends him forth to serve. What he breaks off is larger far than that which remains. But that which remains is undiminished. And all are fed and filled. As a lesson in frugality, the unused fragments are ordered to be gathered up. Each hesitating apostle holds in his hands the tangible

evidence of the reality and magnitude of the miracle wrought.

The Teacher's Lantern.

Lovely evidence is here of the implicit confidence which maintained between Jesus and his apostles. They came to him. They told him what they had done, what they had taught. They were sure of his sympathy. If they needed correction, they knew it would be done in love. The eldest disciples have no monopoly, however, of Jesus' sympathy. He is touched with a feeling for us, too. We can come to him also; to "tell Jesus" is still the disciples' blissful recourse. The same considerateness which Jesus showed for the health and comfort of his toilers, he still feels for those who in this latter day are engaged in his service. Seasons of respite are indispensable for the highest effectiveness. But apostles nor preachers have a monopoly of Jesus' sympathy. It sweeps out to enclose all sorts and conditions of men. Jesus was as compassionate toward the 5,000 as toward the twelve. So his Savior heart goes out toward the great unchurched masses today. Five crackers and two dried herring—talk of feeding 5,000 with them! But add to the crackers and fish the almightiness of Christ, and the proposition ceases to be ridiculous. The resources of the church for spiritual sustenance for the thousand millions of earth are palpably inadequate, until the Savior's power and blessing is added to the equation. Then there is enough and to spare. The heavenliness of this miracle is evident in its orderliness. There was no unseemly scramble, inequality, or waste. All was precision, method, order. Grace at meals is one of the sweetest and most impressive services of family religion. We have Jesus' example for it. If Paul could observe it in the midst of a shipwreck, there can scarcely be a domestic emergency which would justify its omission. The spiritual significance of this whole scene is finely set forth in Mary A. Lathbury's noble hymn, "Break Thou the Bread of Life, Dear Lord, to Me." In the great throng which followed Jesus along the shore that day, a boy had gumption enough to tuck a lunch in his sash before starting. When he heard that the master wanted his little store for some purpose, he gladly gave it up. With the boy's gift Jesus worked one of his greatest miracles. To this day every young person has some gift or talent which, if brought out of hiding and devoted, can be utilized in a practical and helpful way in the spread of the kingdom of goodness and mercy.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 17, F. M. Zenor, Woolstock, Iowa.
 June 21, Binford & Sons, Liscomb, Ia.
 June 28, Combination sale, Chicago, Ill.
 Oct. 4, O. L. Foster, Letts, Iowa.
 Oct. 25, Brenizer & McCullough, Broken Bow, Neb., sale at South Omaha.
 Oct. 26, P. D. Fuller, South Omaha, Neb.
 Dec. 6, Will C. Meyer, Carroll, Iowa.
 Dec. 14, C. A. Saunders, So. Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranz, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

June 8, Stanley R. Pierce, Creston, Ill.
 June 9, James Williams, Marcus, Iowa.
 June 29, Combination sale, Chicago, Ill.
 Sept. 29, F. J. Nelson, Sheldon, Iowa.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 18, Christian-Lang Co., Omaha, Neb.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.
 Oct. 25, Anderson & Son, Newell, Iowa.
 Oct. 26, Lakeside Farm, Storm Lake, Ia.

Hereford Cattle.

June 30, Combination sale, Chicago, Ill.
 Oct. 20, Clore and Kinsell, Chariton, Ia.

Holstein-Friesian Cattle.

June 21-23, R. E. Haeger, Algonquin, Ill.
 June 28, Henry C. Glissman, So. Omaha,

Polled Durham Cattle.

Sept. 28, H. W. Deuker, Kalona, Iowa.
 Sept. 29, L. G. Shaver, Mgr., Kalona, Ia.

Poland China Swine.

Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
 Sept. 24, Pfander & Sons, Clarinda, Ia.
 Sept. 28, H. W. Miller, Peterson, Iowa.
 Oct. 5, J. M. Stewart, Ainsworth, Iowa.
 Oct. 6, W. H. Cooper, Hedrick, Iowa.
 Oct. 7, J. P. Wycoff, Highland, Iowa.
 Oct. 12, W. J. Crow, Webb, Iowa.
 Oct. 13, E. Gritters, Hull, Iowa.
 Oct. 28, Geo. Seffrit, Lucas, Iowa.
 Jan. 19, Jas. G. Long, Harlan, Iowa.
 Jan. 19, Robert A. Schug, Coleridge, Neb.
 Jan. 20, C. R. Adams, Laurel, Neb.
 Feb. 7, W. H. Cooper, Hedrick, Iowa.
 Feb. 8, W. J. Crow, Webb, Iowa.
 Feb. 9, E. Gritters, Hull, Iowa.
 Feb. 9, C. C. Polly, Whiting, Iowa.
 Feb. 10, James Cockerton, Whiting, Ia.
 Feb. 16, Theo. Martin, Bellevue, Iowa.
 Feb. 13, E. D. Keasy, Wiota, Iowa.
 Feb. 21, Pfander & Sons, Clarinda, Ia.

Duroc Jersey Swine.

Aug. 10, D. B. Johnson & Son, Mooresville, Ind.
 Aug. 11, M. A. Kraschel, Macon, Ill.
 Oct. 18, List Bros., Granville, Iowa.
 Oct. 19, James Williams, Marcus, Iowa.
 Oct. 20, Edmonds, Shade & Co., Kingsley, Iowa.
 Oct. 21, H. L. Cantine, Quimby, Iowa.
 Oct. 22, A. Lentz & Son, Pierson, Iowa.
 Oct. 25, W. M. Sells, Indianola, Iowa.
 Oct. 26, O. E. Osborn, Weston, Iowa.
 Oct. 28, I. H. Graham, Washta, Iowa.
 Oct. 29, T. J. Link, Winterset, Iowa.
 Jan. 3, John Goddard, Harlan, Iowa.
 Jan. 4, C. A. Rasmussen, Harlan, Iowa.
 Jan. 5, A. F. Hager, Avoca, Iowa.
 Jan. 23, E. W. Davis & Co., Glenwood, Mo.
 Jan. 24, J. E. Smith, Victor, Iowa.
 Jan. 30, A. Lentz & Son, Pierson, Iowa.
 Jan. 31, Edmonds, Shade & Co., Kingsley, Iowa.
 Feb. 1, H. L. Cantine, Quimby, Iowa.
 Feb. 2, James Williams, Marcus, Iowa.
 Feb. 3, List Bros., Granville, Iowa.
 Feb. 4, I. H. Graham, Washta, Iowa.

Pereherons.

June 28, McMillan & Sons, Sioux City, Ia.

Clydesdale Horses.

June 1, R. O. Miller, Lucas, Iowa.

Mules.

Oct. 19, C. C. Judy, Tallula, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Seward, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Mr. Herman Reel wants wool. He offers good, careful reference and the highest market prices. See page 16.

Messrs. J. & W. Harrison, Box D, Henry, Ill., furnish all sorts of printed stationery as per their advertisement on page 5 of this paper.

Mr. M. M. Chase, of Buck Grove, Iowa, as announced on page 16, has for sale a well-trained Scotch Collie dog, or he will trade him for pure-bred poultry of breeds named in his advertisement.

The unique construction of the Minneapolis Silo, advertised on page 14, ensures solidity and durability. The peculiar construction which brings about these merits is fully explained in catalog which may be secured by

writing to the Puffer-Hubbard Mfg. Company, Station L, Minneapolis, Minn.

Mr. Edwin Hummer, of Iowa City and Kalona, Iowa, has a few choice Duroc Jersey fall boars for sale. They are of Crimson Wonder breeding and are priced worth the money. Write him as per page 27.

The A. A. Berry Seed Company, of Clarinda, Iowa, announce on page 5 some facts with reference to their Early White Cap Dent seed corn, a variety which yields well and matures in ninety days. It is sold at \$2 per bushel and orders are filled on date of their receipt.

Mr. J. D. McDermott, of Wiota, Iowa, has sixty head of Duroc Jersey spring pigs that are sired by Crimson Chief, Muncie's Best and Goddard's Col., and these are out of daughters of Prince of Cols., Chief's Col., Tientsin, Valley Chief and Kant's Best. He has a number of fall sows on hand and these he will sell at any time from now on at \$25 each. If you want some of these fall sows get your order to him at once.

Messrs. E. W. Davis & Co., proprietors of the Missouri herd of Duroc Jersey hogs at Glenwood, Mo., write under date of May 20th, saying: "Our pigs are doing well and we have 125 of them. One litter from our Model Chief sow are coming along splendidly and have great promise. Two gilts have twenty nice Colonel pigs that we are thinking a good deal of. You may claim January 23d as the date of our winter brood sow sale. See page 28."

Mr. C. W. Maynard, of Inwood, Iowa, is the proprietor of the Hawkeye herd of Chester White hogs. He has this year a crop of 200 spring pigs, the get of Wellington 2d, Silver King and Dandy. These are all of excellent lines of breeding. The pigs are large, thrifty, smoothly made, stand on good feet, have plenty of bone, length, stretch and quality. The herd is a good one, concerning which further information will be given at a later date.

Mr. E. C. Wilson, of Montezuma, Iowa, breeds Poland China hogs. He has a limited number, but they are of the sort that have size and strong vital characteristics that must be satisfactory to buyers. His principal herd boar is a son of Expansion, and on the side of his dam traces to popular Tecumseh lines of breeding. He is a great big fellow, with as good a back as a hog ever carried around, extraordinarily large bone, and a very forceful character.

There are probably few articles that are capable of such a wide distribution in their effects and services as gas tar. In particular is tar of value to the farmer. It is an excellent preservative for wood or metal; it is a disinfectant; it is a splendid means of destroying vermin on poultry or animals. A booklet telling about its many uses on the farm may be had without cost by sending a post card request to the Omaha Gas Co., 1836 S. 20th St., Omaha, Neb. See page 19.

Mr. John Roghair, of Orange City, Iowa, is one of the more prominent breeders of Duroc Jersey hogs, having 170 pigs of March and April farrow at the present time. They are sired by Iowa Notcher Jr., Phallas Jr., Crimson I Know and West's Indicator. The dams are daughters of Sioux Brave, Phallas and Iowa Notcher. Mr. Roghair expects to offer about 100 male pigs to the trade this fall and when they are ready to ship, his advertisement will appear in The Homestead.

Mr. C. A. DeVaul breeds Duroc Jersey hogs at Inwood, Iowa, and has a crop of eighty pigs, mostly of spring farrow. They are of excellent lines of breeding, being largely the get of W. S. Choice, Robert J. Longfellow, Crimson Day and Iowa Model. Their dams are daughters of Advance, Crimson Wonder, Junior Jim, Robert J. and Ohio Advance. Mr. DeVaul is a good feeder and caretaker, has an abundance of pasture and is bringing along a crop of pigs that have all the qualities of a prospective high-class hog.

Mr. R. C. Veenker, of George, Iowa, breeds Duroc Jersey hogs. He has pretty close to 100 spring pigs by Crimson Dale, Rex Wonder Jr. and Junior Jim's Advance. Mr. Veenker is an old and reliable breeder who has furnished some of the best herd headers in the Northwest. He has maintained the merit of his herd through the use of the best herd boars and has carefully culled his brood sows, always retaining those which possessed size, as well as quality. Any of the brood sows on the place this year are of the 700-pound type.

Mr. C. Vanderboom, of Platte, S. D., calls the attention of farmers and stockmen to his lands in the famous county of Charles Mix in South Dakota. Platte is an up-to-date city of over 1,200 inhabitants and the center of a prosperous farming and stock-raising community. That corn is one of the main farm products is shown by the fact that during 1909 there were shipped from Platte more than 300 cars of fat cattle and over 400 car loads of hogs. The seven elevators shipped over half a million bushels of grain and in addition to this the flour mill consumed 100,000 bushels of wheat in the manufacture of flour. The three banks of Platte have combined deposits of nearly \$600,000, increasing regularly. The grounds of the Charles Mix County Fair Association are located at Platte and the annual fair, generally held some time during September, is one of the most popular of its kind in the state. The fine exhibits of grains, vegetables, blooded stock, poultry, etc., to be seen on the fair grounds each year would convince the most skeptical that the farm lands of this section are unsurpassed by those of any other section in the country. If you are interested in a

new home or in a paying investment you should write at once to Mr. C. Vanderboom, at Platte, S. D., for more particulars, kindly mentioning this paper.

The Fruit Grower, Box 42, St. Joseph, Mo., offers to send for ten cents a trial package of Giant Radish from Japan, a variety which grows ten by eighteen inches and weighs forty pounds or more. See page 20.

Mr. Amos Hanson, of Collins, Iowa, is offering for sale a splendid standard-bred stallion, on page 25 of this issue. The description is an attractive one and a very reasonable price is quoted. For easy terms or any further particulars write to Mr. Amos Hanson, Collins, Iowa.

We are just in receipt of advice that Mr. H. W. Deuker, of Wellman, Iowa, will hold a public sale of Polled Durham cattle at Kalona, Iowa, on September 28th. On the following day a combination sale of the same breed will be held at the same place under the management of Mr. L. G. Shaver, the well-known breeder.

An advertisement of a champion herd of large Yorkshire hogs will be found on page 26. Mr. Canfield, the proprietor, advises us that he now has on hand something more than 600 purebred pigs farrowed since March, as well as a large number farrowed in 1909. A list of the sales made from this herd since January 1st, last, includes nearly 120 head. They are widely distributed among buyers in North Dakota, Minnesota, Indiana, South Dakota, Illinois, Iowa, Texas, Wisconsin, Wyoming, Montana, Kansas, Ohio and Nebraska. For prices or descriptions on any of this stuff write to Mr. Thomas H. Canfield, Box 7, Lake Park, Minn.

The Empire herd of Duroc Jersey hogs at Inwood, Iowa, is owned by Mr. A. H. Moen. This gentleman is a new candidate for favor as a breeder of Duroc Jerseys. He starts out with a crop of seventy-five spring pigs, mostly of March farrow, by Crimson Index, Rob Roy, W. S. Choice, Mack's Crimson Dale and Rex Wonder Jr. Their dams are daughters of Longfellow, Robert J. West Hero and Wonder Again. As might be expected from such lines of breeding, the excellence of the crop of pigs is notable. Mr. Moen's advertisement will appear in these columns at an early date and further information will be given concerning the others.

Mr. C. L. Thuirer, of Fostoria, Iowa, is a breeder of big-type Poland China hogs. His crop of ninety head of fall and spring pigs are the get of Crow's Model 2d, Long Dude Jr., Onward 2d, Chief Price and Long Wonder. Their dams are the get of Chief Leader, Producer, Chief Tecumseh 4th, Smooth Wonder 2d, 2d Chief Tecumseh and Onward. Mr. Thuirer wishes to dispose of Crow's Model 2d. This is a two-year-old hog, very large and smooth, with good feet, good head and ear and strong bone. He is one of the best sons of Crow's Model. Anyone who needs a good herd boar should take advantage of the opportunity to investigate the merit of this hog. He will be sold worth the money.

Mr. Lester Van Nice, of Russell, Iowa, has about thirty-two Duroc Jersey spring pigs this year and he is going to grow these out for his fall trade and is going to try to put on the finishing touches. These pigs are sired by Crimson Wonder Again, Model Chief 8th and L. E.'s Col. Mr. Van Nice recently purchased of Mr. W. M. Sells, of Indianola, Iowa, one of those good fall boars out of this celebrated brood sow, H. A.'s Choice Goods, and sired by the sweepstakes boar, Crimson Wonder Again. This boar now stands at the head of the herd and he is the making of a good boar. Mr. Van Nice will be at Des Moines this fall and will be pleased to have the boys call around and see him.

Messrs. R. A. Jefferis & Son, of Rock Rapids, Iowa, breed both Duroc Jersey and Poland China hogs. In the former they have something like sixty good March pigs, the get of R. A.'s Model and Budweiser. R. A.'s Model is an excellent grandson of old Kruger. Budweiser is a son of Crimson Dale. In their Poland China herd they have seventy head of spring pigs, nearly all of March farrow, large, growthy fellows. These are sired by Smooth Wonder, Demonstrator, North Star, Chief and Long Prospect. Their dams are granddaughters of Grand Expansion and others of the large strain. Demonstrator, the principal herd bull, is very large, lengthy, has good feet, heavy bone and good head and ears. When fully matured he promises to make an 800 or 900-pound hog.

Summers Closing-Out Short-horn Sale.

On Wednesday, June 1st, Mr. H. L. Summers will make a closing-out sale of his entire Windy Summit herd at Malvern, Iowa. There will be forty-one head in the sale, including his two herd bulls, Bud White, an International winner, and Secret Archer, a son of the champion, Ceremonious Archer. The latter bull is a pure Scotch of the Cruickshank Secret family. Bud White is a son of Cumberland's Banner Bearer and this bull was a third-prize winner at the International in 1907. He was shown successfully at several other fairs that year and since that time he has been used as chief stock bull in the Summers herd. There will be also an eight-months-old Scotch bull in the sale sired by Scottish Champion. He is a dainty dame. The cows in the sale are largely of the milking sorts, and about fifteen of these will have calves at foot. It will be a useful lot of females throughout and it will be a good place to buy either cows or heifers. Mr. Summers is moving away from the state and therefore this dispersion sale.

The farmers and breeders who are wanting some good milking Short-horns will find them in this sale. Write Mr. H. L. Summers, Malvern, Iowa, for catalog at once and kindly mention The Homestead. See advertisement on page 27.

A Certain Cure for Moon Blindness.

The advertisement of the Visio Remedy Association, on page 12, calls the attention of our readers to Visio, which is an absolute cure for moon blindness, cataracts or other eye troubles of the horse. The remedy is sold under an absolute guarantee that it performs a perfect cure or money refunded. The price is \$2 per bottle, postpaid. Send orders to Visio Remedy Association, Dept. D., 1933 Wabash Ave., Chicago.

Allen Offers Bred Sows for Sale.

Readers of The Homestead are kindly requested to notice the advertisement of Mr. H. S. Allen, of Russell, Iowa, on page 25. Mr. Allen offers sows for sale bred for fall litter to his noted sweepstakes sow, Crimson Wonder Again, and Model Chief 8th. Among these are daughters of H. A.'s Choice Goods, Perfection Chief and Crimson Wonder Again. Those of our readers who want some well-bred Duroc Jersey sows, bred for fall farrow, should send Mr. Allen an order at once. He also offers two good fall boars for sale, sired by Crimson Wonder Again.

The Black Crow Car.

The advertisement of the Black Crow car will be found on page 9. The engraving gives an excellent idea of the appearance of this handsome little car. It belongs to a line of high-class automobiles made by a responsible factory, and is sold under a most attractive proposition. The Musgrave Fence & Auto Co., of Des Moines, Iowa, are general western agents and will be glad to send their book No. 139, which not only describes the Black Crow, but also gives in detail a special proposition by which any of our readers may procure a Black Crow at a reasonably low price.

The Spalding Tilling Machine.

The Spalding tilling machine, which has been advertised in the columns of The Homestead, is in its construction a disk plow which has been so constructed that it not only turns furrows of varying widths, but acts as a perfect pulverizer even down to a depth of eighteen inches. It is a peculiar fact that the deeper the furrow made by this tilling machine the more perfect is the pulverization. The machine does splendid work in turning under weeds, cornstalks and manure. The machine is so effective that it will break up the hardest muck land or brush land and leave the ground in an excellent condition for cultivation. The manufacturers have issued a very handsomely illustrated booklet, which contains a great deal of valuable information on the subject of the proper cultivation of the soil, and incidentally gives in detail all of the many advantages of the Spalding tilling machine. This book is sent free to readers of The Homestead who write for it to the Spalding Tilling Machine Company, Cleveland, Ohio.

Plainview Short-horn Herd.

Mr. George A. Hans, of Newton, Iowa, proprietor of the Plainview herd of Short-horn cattle, has an advertisement on page 29 in which he announces that he has for sale a number of excellent young bulls. These are practically all the get of his previous herd bull, Victor Alexander 2d 236748. There is Alexandrina, of strong Marr blood, and a son of Victor Raphael, a show bull, dam Victor Missie 2d. There are perhaps half a dozen of these bulls that range around a year old. They are thrifty, healthy and in good form, but have not been fed up to the limit. They will therefore go into the hands of buyers in a form to do well on any reasonable treatment. They have three or more good Scotch-top crosses in their pedigrees and are practically good enough for anybody. Mr. Hans last fall purchased a young herd bull from the Cookson herd. This youngster was by Missie's Prince and his dam was a daughter of Young Commodore, second dam being the imported cow, Winning Witch. Mr. Hans is a gentleman with whom buyers may deal with perfect confidence. He is quoting some very low prices on these animals.

The Scott Lightning Rod System.

The Scott copper-cable lightning rod system differs from others from the fact that the rod is composed of 99 per cent pure copper cable, which insures carrying a large charge of electricity and is in fact the best rod made under any circumstances. Other points in which the Scott system differs is that the Scott Company satisfy their patrons in their dealings, furnish a rod which answers all purposes, and save customers from 35 to 75 per cent of the cost of rodding a house. They are able to do this for the reason that they sell these rods direct to farmers without the intervention of an agent. They sell them all ready to put up, so that any farmer who can drive a nail can put up the Scott rod just as well and as safely as any expert lightning rod man could do it. The saving of money in purchase price is something that should not be overlooked. Patrons who have bought Scott rods in the past invariably speak well of them. We quote from a letter written by Mr. J. B. Johnson, of Wautoma, Wis., who, after having made a purchase, writes, saying: "I am very well pleased with the rods received. Everything was exactly as the Scott Company advertised, and I got the outfit for one-half less than the price the local dealers were asking for them." The company publish a book which sets forth all the facts with reference to their rods, and gives in addition a good deal of valuable information.

tion on the subject of lightning. It is free to every reader of this paper who writes for it to the J. A. Scott Company, Detroit, Mich.

The Gilson Gasoline Engine.

The Gilson engine, which goes like sixty and is advertised on page 2, is sold under the claim that it is the cheapest gasoline engine, because of its extreme simplicity and lasting service. It may be operated by gas, gasoline or alcohol. A catalog giving illustrated descriptions and prices may be had free by writing to the Gilson Mfg. Co., 972 Park St., Ft. Washington, Wis.

American Fence News.

The American Fence News is an interesting book, handsomely printed, beautifully illustrated, and chock full of good information. It tells how to make permanent fences and, in fact, all about fencing. There are other facts in the conduct of the farm on which it gives valuable pointers. Send a post card addressed to Mr. F. Baackes, vice-president and general sales agent of the American Steel & Wire Co., Chicago, Ill., and a copy of it will be sent to your address.

Shoo-Fly, the Fly Killer.

In a recent issue of this paper the notice of Shoo-Fly stated that a quantity of the preparation, together with a gravity sprayer, would be sent post-paid for \$1. The notice was in error in the fact that the \$1 does not cover postage, but is the price of the preparation and the sprayer. Read the advertisement on page 14 and send for free booklet giving additional information and special terms to agents. Address Shoo-Fly Mfg. Co., 1328 North 10th St., Philadelphia, Pa.

Registered Holsteins at Public Auction.

On Tuesday, June 28th, at South Omaha, Neb., Mr. Henry C. Glissman will make a public sale of 100 head of registered Holsteins. There will be fifty cows and heifers in milk or soon fresh and a number of these will be in calf to noted eastern bulls. There will be twenty-five heifers and heifer calves and twenty-five bulls and bull calves in the sale. Watch this paper for further particulars. Write Mr. Glissman at once for copy of his illustrated catalog and kindly mention this paper. See advertisement on page 26.

Grandview Herd of Durocs.

Mr. W. J. Wentz, of Remsen, Iowa, is the owner of the Grandview herd of Durocs. Here is where we found the good Durocs scattered over a quarter section of land some 200 spring pigs among them, all thrifty and in nice condition, and doing extra well. They are mostly of March and April farrow. They are the get of High Model Second (he by High Model), Columbus W. by Amherst King, he by King of Iowa. The dams are from the most noted strains, and if nothing happens to Mr. Wentz' spring crop of pigs he will be able this fall to supply a big trade with some of the best. We will have more to say about these good hogs in the future.

Link's Duroc Jerseys.

A Homestead representative called on Mr. T. J. Link, Winterset, Iowa, one day last week and found him with fifty good Duroc Jersey spring pigs and thirty head of fall boars and sows. They are sired by such well-known boars as Crimmon Wonder Again, H. A.'s Choice Goods, Link's Ohio Crimmon, Mammoth Critic, Ohio Colonel and Educator. Mr. Link has a good litter by that old noted sweepstakes boar, Crimmon Wonder Again, out of a daughter of Illinois Chief, and he has a good litter by H. A.'s Choice Goods, out of a Model Chief 8th dam. He is growing these pigs out for his fall sale, which will be held at Winterset, Iowa, on October 29th, and at that time he will have some real choice things to offer the breeders. Mr. Link also breeds Hereford cattle and has one of the very best small herds in the state. He generally has a few young bulls on hand and will be glad to hear from prospective customers at any time.

H. C. Young's Jerseys.

That enterprising breeder of Jerseys, Mr. H. C. Young, of Lincoln, Neb., is offering just now some of the very best cattle of that breed to be had in this part of the country. Mr. Young has recently made a change in his plan of operating and has leased one of his fine farms, and as both these farms were stocked he now has a surplus on the farm retained. The cows offered are of the very highest type of Jersey excellence and are of the most fashionable blood lines. A great many of them have been tested and the records prove their worth. A goodly number of the females are sired by Guenon's Gay Lad, which it will be remembered won first in class three times and the championship twice at the Nebraska State Fair, and he has sired many sons and daughters that have been noted prize winners. A few of the heifers are sired by Gertie's Son's Jamont, a bull that Mr. Young spent a great deal of time and money to find and then paid a long price for. This bull was bred by Mr. Geo. A. Sweet, of East Aurora, N. Y., and has for dam a cow with a record of eighteen pounds, one ounce of butter in seven days. His grandam has a record of 16,840 pounds of milk in one year. This latter named bull is one of the best to be found in the country, and to anyone who appreciates the splendid blood lines that he represents and the great record that his ancestors have made for generations it will be apparent the remarkable opportunity that is here presented to obtain foundation stock that are right and have a life of usefulness before them. When completed, Mr. Young will have one of the best, if not the best, dairy barns in the state. The foundation and a part of the frame is now up, and the construction is of the most approved

design throughout. The building will be made absolutely sanitary, with the best of ventilation and light. For full description of the fine cattle offered and the remarkably low prices that are being made on them address Mr. Young as above. See page 30.

Large Poland Chinas.

Mr. John Schmieder is a breeder of the Poland China hogs of the big type and with quality. He also has a reputation as a show man at some of the best fairs in the country, because he raises the show kind. He has 100 spring pigs, mostly of March and April farrow, sired by Big Tom (an Expansion-bred boar), Large Dude, Schmieder's Big Expansion and King Corrector. Their dams are Big Victor, King Corrector, Winning Perfection and E. L.'s Pride. He also has a few extra good fall boars sired by Large Dude and Winning Perfection. If you want an extra good fall pig Mr. Schmieder has the kind to suit you. Write him your wants and mention The Homestead.

Beaver Creek Short-horn Sale.

Mr. N. A. Lind, of Rolfe, Iowa, announces a public sale of fifty-two head of Short-horn cattle on June 16th. This sale will include forty females and twelve bulls. A large proportion of them are of straight Scotch lines of breeding. Twelve of the cows have calves at foot. There will be a splendid lot of young heifers in this sale, ranging in age from fourteen to twenty months, every one a top notcher and the best lot of young heifers the writer has seen go into any one public sale. They are mostly daughters of Sultan, one of the best sons of that famous old bull, Whitehall Sultan, and a breeder of extraordinary merit. Mr. Lind is selling some of the most promising of his high-priced young Scotch cows. The offering is in fact a credit to Mr. Lind, as it would be to any breeder in the United States. We doubt if there will be a better lot of young Scotch cattle sent through any auction ring of the year. In the bull consignment there are twelve head ranging in age from ten to eighteen months; all are good colors and of the best Scotch breeding; some are outstanding show prospects. Mr. Lind himself believes that this will be one of the best consignments of Scotch cattle that ever went through a sale ring at Beaver

of any sort will do well to get into communication with and secure the illustrated catalog 304 of the Farmers' Cement Tile Machine Company, St. Johns, Mich.

Colorado Apple Lands.

The fruit-producing lands of Colorado are rapidly building up a reputation second to none. Fruit culture is one of the more profitable forms of Colorado agriculture, and in this line our readers should certainly be interested in the announcement of the Bates Investment Company, which will be found on page 13. This firm handle land in the gold medal orchard section, which furnished apples that took first prize at the St. Louis Fair. These lands are just as capable of producing as those which sent the prize-winning apples. Descriptions and prices may be had by writing at once to the Bates Investment Company, 251-254 Coronado Building, Denver, Colo.

Great Demand for Men in the Automobile Business.

The automobile business is a new industrial field with great possibilities and opportunities for young men, the like of which has never been known before. Although only about a decade old, it has grown to huge proportions. No one dares guess its enormous extent in a few more years hence, and what another decade will bring forth is beyond the widest speculation. The demand for competent men was never so great in any industry as right now in the automobile business. Capable chauffeurs, repair men, automobile salesmen and demonstrators are in big demand, and the supply of such men being limited, the pay is correspondingly high. The Kansas City Automobile School of 2119 East Fifteenth St., Kansas City, Mo., is by far the largest and best equipped school in America today and its thorough, practical course of instruction will properly prepare any man with ambition and energy to get into this business and enter it intelligently. The school is sending out a very handsome catalog to those who write for it, telling about the great growth of the automobile business; the great demand for men, and the good salaries paid chauffeurs, repairmen and salesmen; the many opportunities for establishing repair

Mr. R. H. Cook, 533 Utica Building, Des Moines, Iowa.

Essig's Hampshire Swine.

Mr. Willie Essig, of Tipton, Ind., has one of the good collections of Hampshire swine in the United States. His winnings at the state fairs last year substantiate the above statement. At the Ohio State Fair he won every first premium he showed for. At the Indiana State Fair he won more first premiums than any other exhibitor. At the Illinois State Fair he was one of the best winners. This record means something when you consider it was his first year showing. His herd is bred in the purple. His herd boar, General Tipton, is by Legal Tender and was a winner wherever shown last year. The sows in the herd are by some of the most noted boars of the breed. At the present time Mr. Essig is offering a splendid lot of fall boars and gilts, mostly sired by General Tipton. He is breeding the gilts for August and September farrow and he is pricing them where any farmer can afford to buy them. A Homestead representative recently looked them over and can recommend them highly to any intending purchasers. The boars are an attractive lot and should find sale readily. If you are thinking of buying a Hampshire boar or gilt we would advise you to write Mr. Essig at once, kindly mentioning The Homestead. See his announcement on page 28.

Last Call for the Hess Sale.

The sale of Quietdale Aberdeen Angus cattle, which takes place at Quietdale Farm, at Waterloo, Iowa, on Tuesday, May 31st, is advertised on page 25 of this paper. Mr. Hess consigns to this sale a magnificent lot of Aberdeen Angus cattle. There is opportunity at this sale to satisfy the demands not only of the man who is looking for show cattle to make up or strengthen a herd, but also for the breeder who needs more quality, and for the farmer who means to get started right. A goodly number of the females were mentioned in the last issue of this paper. It might be repeated here that eight of these are young heifers of the very highest quality; twenty are yearling heifers which have been bred either to Ebony of Quietdale (the grand old getter of show stuff), Autocrat (a slow bull of highest merit that captured ribbons as a yearling, as a two-year-old and as a three-year-old, and that is himself consigned to the sale) and Kandahar of Quietdale (a son of Edward R., that carries true Aberdeen Angus type and lines of breeding that cannot be bettered by any K. Pride in any herd). Twelve of the mature cows will sell with calf at foot, a large proportion of these being by old Ebony of Quietdale. Seventeen bulls have been cataloged for this sale and they make up a bull consignment of such general excellence that we have not space at our command to go into full detail concerning them. Perhaps the more attractive of them is Kandahar of Quietdale, above referred to. He is a four-year-old, a tried breeder, and with merits that go a long way toward satisfying those who are looking for real Aberdeen Angus type. He has a splendid head, a full heart and an expansive front that make him attractive as a show-yard proposition. His wonderful depth, strong back and full quarters go to complete his symmetrical proportions and make him an all-round good bull, which he would be without any breeding at all. He is, however, bred in the purple, being a son of Edward R., he a grandson of the noted show bull, Prince Ito. His dam was Imp. Krivinia, a K. Pride of unusual merit and breeding. Perhaps one of the best proofs of the value of Kandahar of Quietdale as a breeder is the fact that one of his daughters sold a year ago at \$500. It is dependable breeding and will certainly breed on and on in the future as it has in the past. Autocrat, the other herd bull that is cataloged and goes in as No. 21, is an Abbees, a son of Eliminator of Ballindalloch, he also a grandson of Prince Ito. His dam was the noted cow, Abbees McHenry 2d, she by Heather Lad 4th by Jim Jams, and out of Abbees of Burlington by Black Knight. To the writer there can be no better pedigree than that which Autocrat represents, because back through five generations it includes not only bulls and cows that have made records in the greatest show rings, but that have done impressive service as breeders. Autocrat himself began as a calf with an undefeated record in the show ring. As a yearling he also captured some of the highest ribbons. With these winnings to his credit it goes without saying that he is an individual with a high order of excellence. Among the younger bulls that will bear looking after is Bernard of Quietdale, a March yearling by Ebony of Quietdale and out of Blackbird McHenry 8th, bred very largely along the same lines as the dam of Autocrat. This fellow is a grand bull with extra width of loin, wonderfully low and compact, and with other qualities that cannot fail to please buyers on sale day. An April yearling particularly attractive is Eyvander of Quietdale, a son of Kandahar of Quietdale, dam Imp. Ellora 4th of Tullynally. This is a fine, thick youngster, with good lines, wide at both ends, and with wonderful promise. There are some younger calves with true show-yard promise that will bear having a good deal said about them. However, the whole offering is so good that all who are interested in Aberdeen Angus cattle should go to the sale and satisfy themselves. We believe that a good many who do so will feel well repaid for the trouble and expense. Mr. Hess is taking every pains to provide comfort and convenience for his patrons on sale day. The sale will be held in his big barn on the farm, so

NEXT WEEK'S SALE PROGRAM

Tuesday, May 31	Aberdeen Angus, Harvey J. Hess, Waterloo, Iowa.
Wednesday, June 1	Aberdeen Angus, Chas. Escher & Son, So. Omaha, Neb. Clydesdales, R. O. Miller, Chariton, Iowa. Short-horns, H. L. Summers, Malvern, Iowa.
Thursday, June 2	Aberdeen Angus, Chas. Escher & Son, So. Omaha, Neb. Short-horns, Biller & Son, Crofton, Neb.
Friday, June 3	Short-horns, B. O. Cowan, Ass't Sec'y, Mitchell, S. D.

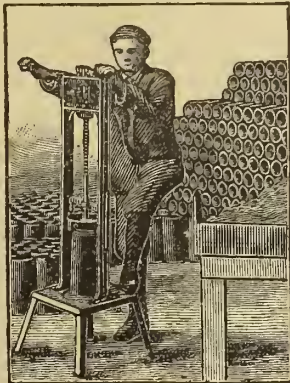
Creek Farm. Catalogs are now ready and may be had by writing to Mr. N. A. Lind, Rolfe, Iowa. Notice the advertisement on page 26.

The Advantage of a Bicycle.

The advertisement of the Mead Cycle Company, on page 9 of this paper, gives in detail some of the strong points of the bicycles made by that firm. During the season of good roads in the summer time there is scarcely anything on the farm or elsewhere which can be as handy at a time when there is need of a quick trip for any particular purpose. Besides its value as a utility vehicle, the bicycle also meets the demand for pleasure trip purposes and short excursions that can be filled by no other. A catalog giving complete descriptions, prices and other valuable facts may be had by writing to the Mead Cycle Company, Dept. D184, Chicago, Ill.

A Cement Tile-Making Machine.

The necessity for tile in a great proportion of western land adds interest to the announcement of the Farmers' Cement Tile Machine Company, on page 11 of this paper. This concern manu-



facture the farmers' cement tile machine, which is illustrated herewith. By the use of this machine any farmer may at his leisure time make tile of any size, and at a cost which is a no inconsiderable saving over purchased tile. Those who contemplate drainage

shops and agencies; the thoroughness of their course of instruction and the many successful experiences of its students. See the advertisement on page 18.

The Indiana Silo.

The Indiana Silo, which is advertised on page 14, is a means by which, as stated in the advertisement, any farmer may double his profits. This is not a statement at random, because it has been proven by experiments as set forth in United States govern bulletins. The Indiana Silo is made by the Indiana Silo Company, 321 Union Building, Anderson, Ind., and a card of inquiry directed to them will secure valuable publications on the questions of corn silage for beef production, silage vs. grain for dairy cattle, and also the Indiana Silo Book and Silo Advocate. Parties west of the Mississippi river should direct their inquiries to Mr. H. C. Hargrove, General Western Sales Agent, Des Moines, Iowa.

Cook's Canada Land.

An unusual proposition in the sale of improved land is made plain in the advertisement of Messrs. Cook Bros., on page 13 of this paper. The Messrs. Cook own a large area of land near Arcola, Sask., Canada. For various reasons they want to dispose of a large proportion of this not later than July 1st. In order to do so they are offering terms and conditions of sale that are remarkable and that cannot fail to operate to the advantage of any buyer if he be capable of doing even a little work. The land is sold for a very small payment down, the balance on the crop-payment plan, which binds the buyer to no other cash payments than those that can be made from the share of the crops. Farmers who have already taken advantage of the offers of the Messrs. Cook have raised as high as forty-three bushels of wheat and ninety bushels of oats to the acre. Some of them have cleared from \$4,000 to \$6,000 in a single year. It is a matter of record that buyers on the crop-payment plan have secured their deeds in from three to five years. The Messrs. Cook have endeavored every question in the advertisement every question that the buyer might ask. They secure low round-trip excursion rates, good any time, and refund expense to purchasers. The trip can be made in five days. For additional facts write to

that there will be absolute protection from any sort of weather, comfortable seats and transportation to any from Waterloo before and after the sale. It is not yet too late to secure a copy of the catalog, for which write to Mr. Harvey J. Hess, Waterloo, Iowa.

F. H. Herring's Durocs.

A Homestead representative recently had the pleasure of visiting the herd of Mr. F. H. Herring, at Iowa City, Iowa. We found him well fixed for a successful year. He has seventy-five spring pigs that are coming along in fine shape. They are all sired by his two herd boars, The Wonder and Golden Model IV. The Wonder is by Model Wonder, the noted boar at the head of the Hanks & Bishop herd, while his dam is by Crimson Wonder Jr., which makes him a line-bred Crimson Wonder. He has an excellent head and ear, good feet, a wide, deep ham and is smooth. His pigs are a very promising lot. Golden Model IV. is by Golden Model II., the second-prize aged boar at Des Moines last year, and out of a Model Chief dam. He is in fine condition and his pigs look like comers. Both of these herd boars will show as two-year-olds and, barring accidents, will be shown at Des Moines this fall. Mr. Herring can well feel proud to have two such boars at the head of his herd. An aged sow by Crimson Wonder Again will be a hard one to defeat, as will a junior yearling sow by Model Chief, out of an Advancer dam. They are both very smooth and have lots of quality. A July litter by The Wonder are extra good. As usual Mr. Herring will hold a fall sale, particulars of which will appear in The Homestead in due time.

Maple Grove Aberdeen Angus Sale.

Mr. James Williams, of Marcus, Iowa, will hold his sale of Aberdeen Angus cattle on Thursday, June 9th. At that time he will put through the ring forty-six head of cattle, consisting of thirty-seven females and nine bulls. Eighteen are Blackbirds, two are K. Prides, four are Trojan Ericas, fourteen are Prides of Aberdeens, six are Queen Mothers, two are Duchesses and one is a Jeannette. Sixteen of the females will sell with calf at foot, and all the others, with two exceptions, will have been bred to Black Predominator, one of the greatest sons of Prince Ito 2d, his dam having been Blackbird 24th. Black Predominator is an outstanding individual in every respect. Mr. Williams announces that this will be the best offering of cattle he has ever made, with respect to both breeding and individual character. Each and every animal will be a good one. The calves at foot are particularly a fine lot and a credit to any breeder. Among the females is Blackbird of Cherokee 7th, a daughter of Woodlawn Blackbird Lad, dam Dolly Blackbird 4th. She sells with bull calf at side by Edward R., and is again bred to Black Predominator. Another cow is Blackbird McHenry 48th, as good a cow as can be found in any herd. She was in the McHenry show herd at the World's Fair. She sells with a Blackbird Edward bull calf at foot and is rebred to Black Predominator. Dolly Ito, another of these cows, is a daughter of the great Prince Ito 2d, an outstanding heifer and also bred to Black Predominator. Blackbird Beulah is a good cow that sells with cow calf at foot. Blackcap Beauty W. is a double Blackcap two-year-old heifer, and one of the best. Dolly Blackbird 20th is another of the choice ones of the sale. Oakfield Blackbird Lass, a daughter of Black Woodlawn, is an outstanding heifer. Blackbird Lady 6th is an intensely-bred Blackbird two-year-old heifer, with an extra good Black Predominator bull calf at foot. This is in every probability the best calf, as well as the best-bred calf, that will be sold this year. There are others of the Blackbird tribe. Among the Trojan Ericas is Elba's Evergreen, and the only Evergreen to be sold this year. She is a daughter of Imp. Edward R. and bred to Black Predominator. Eldora of Quietdale is a double Trojan Erica, also bred to the herd bull. Violet Lawn Erica is a two-year-old with a good bull calf at foot by Elect. In the Pride offering will be found the imported cow, Pride of Aberdeen 180th, one of the best Pride cows to be sold this year and a grand individual in every respect. She has a cow calf at foot by Elect and has been rebred to Black Predominator. Another choice thing is Imp. Pride of Lovat 8th. Imp. Early Pride is an excellent cow with an outstanding bull calf at foot by Elect and rebred to Black Predominator. Krishna of Cherokee 2d is a six-year-old cow weighing about 1,600 pounds and a grand individual. She has been bred to Cherokee Black Hawk. There will be a number of Queen Mothers, among them Imp. Victoria E. with a bull calf at foot, Victoria W., her daughter, and Shadeland Helen, a beautiful cow that will sell with cow calf at foot. Every one of the nine bulls to be sold is good and fit to head any herd in the land. They are the best lot that the writer has ever seen prepared to be sold from any one herd. Leading among them is Black Bobby by King Edward W., dam Dolly Ito. Blackbird Recorder is an excellent bull that has been used in the herd. He is by Book Maker and his dam was Blackbird Lass. Black Jester of Maple Grove, sired by Black Jester Ball, dam Blackbird Beulah, is an outstanding show calf that should attract the attention of buyers. Another show calf and winner is Proud Ben, a Pride by Ben Royal, dam Pride 11th of Woodlawn. Another Pride calf is Proud King W. by King Edward W., dam Pride Ito by Prince Ito. These cattle are all in the pink of condition and should be, as they will be, appreciated by all lovers of good Aberdeen Angus cattle. Mr. Williams is entitled to the hearty support of all Aberdeen Angus breeders

for personal reasons, but beyond that it is a fact that the merit of the cattle is good enough on its own account to bring to him the patronage of the best buyers of America. He has bought unhesitatingly the best things to be found, and the results go into this sale. Catalogs are now ready and may be had by writing to Mr. James Williams, Marcus, Iowa. See page 26.

The Farmer's Veterinary Knowledge.

Every fact that a farmer may learn concerning the diseases of the horse and their treatment is a valuable point in his education. Horses today are the most highly-valued farm animals, and anything which tends to preserve the condition of health and thrift must necessarily operate to the credit of the farmer. In this line we are glad to refer our readers to three handy horse books entitled "The Horse, Its Diseases and Treatments," "Veterinary Points" and "Dr. Craft's Advice." The latter in particular is a special treatise on distemper, influenza, epizootic, coughs, colds, fevers, etc. These books are sent free to readers of The Homestead who send a post-card request for them to the Wells Medicine Company, 18 Third St., La Fayette, Ind. See page 5.

The Pierce-Evans Angus Sale.

Seldom is the opportunity presented the public to place sale values upon so many good cattle as will be offered in the Aberdeen Angus auction of Messrs. Stanley R. Pierce and John D. Evans, at Woodlawn Farm, Creston, Ill., Wednesday, June 8th. One hundred head are cataloged for this sale and there is not a bad one in the lot. This is a somewhat broad statement to make, but it is true. The writer has carefully inspected the cattle for this sale and has no hesitancy in pronouncing them one of the strongest lots of Angus that has been offered in a long time. Mr. Evans, who is one of the most progressive and best known Angus breeders in the middle West, is sending forward twenty-four head, all Trojan Ericas, Blackbirds and Prides. Twenty cows of good, young ages are included in his portion of the offering, and seventeen of them will sell with calves at foot. It is seldom that one finds so many good females as are to be found in Mr. Evans' herd, and it is the pick of these that he is offering. They are a producing lot all the way through. Mr. Evans' cattle are handled without any frills and he has, in consequence, produced a class that have constitution, scale and vigor, as well as being healthy and regular breeders. All that can be asked for in one animal will be found in the cattle he will offer June 8th. Mr. Pierce's offering will number nearly seventy-five head, and when we say that it is without question the best bred and best conditioned lot of cattle that has ever been presented at Woodlawn, than which there is no more famous Angus breeding establishment, we at once establish the high worth of the offering. Seventy females are in his offering, and thirty-five of them will have calves at foot, while all the balance of breeding age will be safe in calf to Prince Albert Ito, one of the best sons of the great Prince Ito, or Elfin Beecher. Mr. Pierce lists thirty Blackbirds, seventeen Trojan Ericas, twelve Prides and a number of Queen Mothers, Barbaras and Antelopes, the two latter being the tribes from which have sprung the majority of the famous prize winners that have been produced at Woodlawn in the past. There is but a small bull offering in this sale, ten head being cataloged, but among them are several extra good herd heading propositions, while farmers will find here just the bull needed to produce the market-topping steer. There will be cattle to fill every want in this sale and, owing to the fact that 100 head are to be sold in one afternoon, bargains are sure to abound. Those who attend will in no wise be disappointed in the cattle. They will bear the closest inspection. The ad-

vertisement appears on page 29. Look it up and send for a copy of the catalog, mentioning The Homestead when you write, and arrange to be on hand sale day. All trains will stop at Creston, Ill., on day of this sale.

The Mora "Light Four" Car.

An advertisement of the Mora Company, manufacturers of the Mora "Light Four" Car, will be found on page 32. The firm set forth some of the advantages of their car in this advertisement, but their principal object is to attract the attention of those who could take up the business of representing them in territories in which the Mora has not yet been introduced. In such places a very highly attractive proposition will be made to active, energetic men. Enough information is given in the advertisement to give positive proof of the value of the car. Our readers who are interested should cut out the coupon shown in the advertisement and forward it to the Mora Company, 444 Mora Place, Newark, N. Y., and they will receive catalog and full details of the proposition which they have to make.

Hull's Duroc Jerseys.

Lafollette is dead, but his owner, Mr. W. L. Hull, of Logan, Iowa, has ninety-five spring pigs, some of which are sired by this famous old boar. This will be the last opportunity that breeders will have to secure the get of this famous old sire. Mr. Hull also has some excellent pigs by Crimson Chief, the son of Valley Chief, that he won sweepstakes on at the Missouri Valley Fair last fall. Other litters are by Chief Sensation, out of a Redwood Chief dam, and others are sired by Proud Chief, Proud Chief Jr., Alfonso and Muncie Chief. Mr. Hull has two excellent litters by Lafollette, out of an Iowa Notcher and a Valley Chief sow, and there will be some good herd boars to come out of these litters. He also has three good February litters, one by King the Colonel, out of Sweet Sixteen; another by Pride of the Valley, out of a Kruger Lad sow, and another by Proud Chief, out of a Critic sow. The breeder who is looking for a Lafollette boar should write Mr. Hull at once, as this will be the last chance to secure a boar by this famous old sire.

Last Call for Havenhurst Sale.

Dr. J. G. Biller & Son will hold their sale of Short-horn cattle at Crofton, Neb., on Thursday, June 2d, as announced in the advertisement on page 28. Forty head of the choicest things in their herd have been cataloged for this occasion. Among them will be found sons and daughters of such sires as Archer (sire of the first-prize cow at the Nebraska State Fair, Kansas City Royal and other noted shows of 1908), Whitehall Count, Lord Banff 3d, Royal Gloster, Bold Archer and others. Ten of the offering are of straight Scotch blood lines; thirty-two are cows and heifers, and twelve of these will sell with calf at foot. The remainder, with six exceptions, will be due to calves shortly after the sale. The calves at foot are by Archer, Bold Archer and The Gallant, the three herd bulls that stand without superiors in any Nebraska herd. Archer, besides being the sire of show stuff, as noted above, was himself a prize winner at seven leading state fairs. The Gallant is a young bull bought last winter to be used in the herd. He is a son of Great Avondale by Whitehall Sultan, and is a duplicate of the old bull. He will probably be shown this year at some of the leading fairs, as he is a youngster of much promise. He has already a record of being a winner as a calf. Bold Archer is one of the best sons of Straight Archer. He has been in the herd for some time and some of the best things in it are of his get. His lines of breeding have been mentioned in previous issues of this paper. He is a three-year-old, solid red in color, low down, deep, blocky and with excellent

proportions, style and finish. He is one of the best herd bull prospects to be sold this year. The consignment are in just plain breeding condition. Every animal that goes into the sale ring will have been tested with tuberculin and carry with it a certificate of perfect health. Be sure to remember that the sale is to be held at Crofton, Neb. It is not yet too late to secure a catalog, for which write to Messrs. J. G. Biller & Son, Hartington, Neb.

Fall Poland China Boars for Sale.

On page 25 will be found the advertisement of Mr. Chas. W. Humerick, Atlantic, Iowa, who is now offering thirty-two head of splendid fall boars for sale. These are sired by Big Jerico and Model Chief and are out of his best big-type sows. Some of these are out of daughters of such well-known big-type sires as Tecumseh Longfellow, Long King and other noted big boars. Mr. Humerick has the best lot of fall Poland China boars that we have seen this summer. He wants to dispose of them and therefore now advertises them for sale. Now is the time to buy one of these boars and get your choice of the bunch. Write him at once about these and don't wait until fall to select your herd header. These boars will be higher in the fall season and, therefore, now is the time to buy. When writing him about these boars kindly mention The Homestead.

The South Dakota Short-horn Sale.

The attention of our readers is again called to the announcement of the South Dakota Short-horn sale to be held under the management of Mr. E. O. Cowan, of Mitchell, S. D., on Friday, June 3d. Forty head of high-quality Short-horns have been cataloged for this sale; twenty are bulls and twenty splendid cows and heifers. These come from leading herds of northwestern Iowa, and an endeavor has been made to send out only such cattle as will be satisfactory to buyers. Blood lines include some of the best. There will be strong infusions of such herd bulls as Whitehall Sultan. It is of additional interest that all these cattle have passed the tuberculin test and are healthy, vigorous and useful, being such a lot as will give good returns to the purchaser. Catalogs may be procured by writing to Mr. E. O. Cowan, 13 Dexter Park Ave., Chicago, Ill. See page 30 for advertisement.

Shinn's Lightning Rod Book.

The big advertisement of the Shinn copper cable lightning rods, which occupies a prominent place on page 8 of this paper, gives a lot of valuable information on the question of rods. Other facts of startling interest may be learned from Mr. Shinn's recently-published book, "Lightning and How to Control It." This is a work which goes deeply into the scientific aspect of lightning and its effect. It is an exposition of the proper methods of protection from lightning. Of course one of the objects of this book is to pave the way for arguments in favor of Shinn's rods. That the Shinn rod is a perfect conductor is proven beyond question from the fact that Mr. Shinn issues a legally binding guarantee, backed by a \$75,000 bond, which goes with every equipment of Shinn's copper cable lightning rod. The book, while it is somewhat expensive, is of highly educational character and is sent free to those who write for it to Mr. W. C. Shinn, 101 North 16th St., Lincoln, Neb.

High-Class Angus Females in the Escher Sale.

The two-day sale of Messrs. Chas. Escher & Son, at South Omaha, Neb., on June 1st and 2d, furnishes one of the exceptional opportunities to buy high-class Aberdeen Angus females. There will be twenty head of imported cows and heifers in this sale, the equal of which has seldom, if ever, been put through a sale ring. There will be a good lot of Trojan Ericas in this offering and many of these were imported from the best herds in Scotland and England. We will just mention a few of these. Error 7th is one of the best-bred Enchantress heifers in the sale. She is a daughter of Prince Festive of Ballindalloch and out of a daughter of the great Edelfhof. This heifer was the select of last year's importation and goes into this sale bred to the great young bull, Imp. Eston of Eshott. Eventime is another grand, good Enchantress, sired by Imp. Earl Erica of Ballindalloch and bred to Imp. Eston of Eshott. Eydelbank and Edessa 3d are also extra choice and in fact every Erica in this offering is superior in every way. The Blackbirds and the K. Prides are on a par with the Ericas and it is useless for us to individualize on the various individuals that will be sold at this time. Some of the best Blackbird cows that have been put up in an auction sale are cataloged for this occasion. Then another thing that must not be overlooked, and that is, these females are either sired or bred by the best Angus bulls today in Europe or America. Most of the offering are bred to imported bulls and it goes without saying that this two-day offering furnishes one of the best opportunities that was ever made to buy high-class Aberdeen Angus cattle. It will be the occasion of the year for the gathering together of the most noted



STANDARD GOODS IN THE BELLOW'S SHORT-HORN SALE.

The above illustration represents the splendid roan yearling Short-horn bull, Standard Goods, No. 1 in the public sale catalog of Messrs. Bellows Bros., at Maryville, Mo. The sale takes place on June 14th as per announcement on page 32. Standard Goods is a magnificent specimen of the breed, a grandson of that great old champion, Choice Goods, and his dam is one of the best of Queen of Beauty cows. For those in search of strictly high-class herd bulls this fellow ought to answer every argument.

breeders and lovers of this noted breed of cattle, and if you are interested you should by all means make it a point to be with Messrs. Escher on this occasion. Read the advertisement on page 30 and write for catalog, at the same time kindly mentioning The Homestead.

The MacDonald Berkshires.

The Messrs. MacDonald Bros., of Montezuma, Iowa, breeders of Berkshire hogs, have a crop of excellent spring pigs coming on. The herd is one which is built upon foundation from the leading strains of the breed and from more prominent breeders. There are in service now three herd boards, Hopeful Lee, Baron Duke 144th and Premier Francis. Hopeful Lee was good enough at the Iowa State Fair last year to stand first in a class of six months and under twelve. Baron Duke 144th is a Gentry-bred hog that was winner of second in the senior yearling class at the same fair. Premier Francis is by Artful Premier, his dam being a well-bred sow with a dash of imported blood. At the Des Moines fair last year also this herd took first and second on herds under a year, and second and third on sows under a year. The present crop of pigs is promising. Additional information concerning them will be given when selling time comes.

325 Holsteins at Auction.

An event which should be of great interest to every Holstein breeder is the sale of 325 head which will be held June 21st, 22d and 23d, by Mr. Robt. E. Haeger, at Algonquin, Ill. In a sale where such a large number are to be sold will be a good place to pick up some bargains. Such is always the case and the shrewd breeder will always be there looking for them. At the head of the herd are Hengerveld Beets and Woodcrest Hengerveld De Kol, both sons of the great Hengerveld De Kol. Hengerveld Beets was a winner at the 1909 National Dairy Show and is out of Aaggie Lily De Kol Beets, butter twenty-one pounds, a daughter of Paul Beets De Kol. This gives Hengerveld Beets the cross of the two greatest producing sires in the world. Woodcrest Hengerveld De Kol was the first-prize two-year-old bull at the 1909 National Dairy Show and his dam was the show cow, Pleasant Valley Kate 2d, butter 21.4 pounds. A number of the bulls, cows and heifers in Mr. Haeger's sale are sired by these two great bulls and many of the cows and heifers are bred to them. Breeders and beginners should make preparations to attend this sale and get some of this blood. Mr. Haeger is making a sacrifice when he lists so many good cattle for one sale, but all this is in favor of the buyer. The sale will be held in a new sale pavilion now being completed on the farm, which is but a short distance from town. Write for a catalog at once, kindly mentioning The Homestead. The advertisement appears on page 26.

Bellows Bros.' Short-horn Sale.

Annual sales of Short-horn cattle, such as are bred, grown and offered by Messrs. Bellows Bros., of Maryville, Mo., interest the cattle men of the country and are looked forward to by men who have the interest of good Short-horns uppermost in mind. For the event to be held at Parkdale Farm, on Tuesday, June 14th, fifty lots are listed. Messrs. Bellows Bros. have made many fine offerings which have been highly appreciated, but they have never made one that should be more highly appreciated than this offering, comprising ten bulls and forty females. The work of thirty or more years is up for the public to pass upon. These gentlemen are offering on this day several head that are the kind they have been striving all these years to produce, and those looking for bulls of the right stamp to head good herds will find them here, and it matters not how good that man's herd of cows may be, more of the blood of the champion, Choice Goods, through two of his greatest sons, Good Choice and Best of Goods, will be offered than has ever been offered before. Lot 1 of the catalog, Standard Goods by Best of Goods, and out of a Cruickshank Queen of Beauty cow, is a September, 1909, yearling of rare scale, lots of quality and character. He is a well-balanced bull with good covering of flesh and is one that will go on. Lot 2, Superb Goods, is rightly named. He descends directly from a Cruickshank Violet tribe and Messrs. Bellows Bros. have never sold a better bull. His breeding is right, his character and individual merit are right, he looks every inch a great breeding bull and if carried on for the fall shows would be a strong candidate for high honors in the junior yearling classes. He is a rich roan, is absolutely smooth and a great feeder. Merry Choice by Good Choice, a pure white, calved September, 1909, and out of Merry Sylvia, is a senior calf of such thickness, scale and quality that he appeals to all. His lines are excellent, he has the thick-fleshy quality, an almost ideal head and horn and is a calf that should be carried on. Sultan Goods, a white sixteen-months-old son of Chief Sultan and out of a daughter of Good Choice, is a strong, wide-ribbed bull, an evenly-balanced fellow that shows much of the Sultan type and quality. Royal Goods by Best of Goods, dam Sweet Heart 2d by Good Choice, is a red that should please some critical buyer. The forty females are a choice lot. The great herd bulls, Good Choice and Best of Goods, are represented by several daughters. A fine string of young cows are bred to them and many have calves at foot by them. Missie's Sultan, the show bull purchased of Mr. Johnson, has been used on the Good Choice and Best of Goods heifers. Of the females more will be sold in future issues. Send for their beautifully illustrated catalog and



LAST CALL FOR THE QUIETDALE SALE ABERDEEN ANGUS CATTLE
WATERLOO, IOWA, TUESDAY, MAY 31, 1910
HARVEY J. HESS - - - WATERLOO, IOWA.

kindly mention this paper when doing so. See page 32.

Lawndale Short-horns.

To Short-horn breeders who have kept abreast of the times, Mr. G. T. Haggard, proprietor of the worthy herd of "red, white and roans" maintained at his Lawndale farm, will need no introduction. This veteran breeder now has for sale several bulls of choicest breeding and individuality that should please the most critical. Of splendid carriage and great breadth with a beautiful head and eye are the first feature that attract one when approaching that great herd bull, Gloucester's Baron 2d. When viewed more closely his splendid lines, beautiful coat, ample covering in all parts, and massive quarters further emphasize his value in your opinion, but it remains for one to see some of his superior get to obtain an accurate idea of the value of this great sire. This bull is following one of the greatest breeding bulls that ever came to this part of the state and makes his place one of distinct importance. We refer to Royal Fame, the bull that has done more for the interest of good beef in this section than any sire ever used. He was got by Imp. Prince Oederic and out of Supremacy by Red Victor, second dam Imp. Spleenwort by Royal Victor. That Mr. Haggard made no mistake in the purchase and use of this bull is amply proven by the very superior lot of young cows by him now at Lawndale, as well as the four toppy young bulls sired by him that are now being offered for sale. There are several bulls in this lot of herd-header stamp, notable among which is the truly good bull, Royal Aberdeen 3d by Royal Fame and out of Aberdeen Maid 4th. This straight Scotch bull is one that will warrant inspection and to those who have not as yet made the purchase of a bull for this season, we would suggest that they get in touch with Mr. Haggard and get his very low prices and full description of any or all of the bulls offered, which may be had by addressing Mr. Haggard, at Helvey, Neb., and mentioning The Homestead. See this page for advertisement.

Scotch Bulls For Sale.

The advertisement of Mr. G. A. Bonewell, of Grinnell, Iowa, on this page, sets forth a few facts with reference to some bulls that gentleman is offering for sale. His herd is exclusively a Scotch-bred one, and these young bulls are straight Scotch of the better families. They are all the get of Lord Banff Jr. This herd bull is a remarkably massive fellow, with a great heart girth, excellent top and bottom lines, and a width and massiveness that at once impress themselves upon the visitor. He has a very neat, well-formed head, with a handsome set of horns. As a beef animal he certainly belongs to the real type. One of the young bulls offered for sale, and possibly as good a one as any, is Lord Amaranth, a last February yearling. His dam is a daughter of Coming Star and his second dam the imported cow, Sittytan Amaranth, she by a Marr-bred sire. This bull is not only one of extraordinarily good breeding, but he is a uniformly well-made fellow, with excellent wide, straight back, massive, short neck, good bone, good bottom lines and a strong chest measure indicative of high vital force. He is the kind that those who are looking for herd headers like to see. Another youngster of about the same age is Victor Archer, whose dam was a Victoria 21st cow. He is also solid red, of the same general form and practically as good in every respect. A blocky little fellow, ten months old, Victor Severin by name, has a little more finish and quality than either of those named. His

dam is a lovely cow, strong in Cruickshank and Harris breeding, with infusions of Prince President and Thistle-top blood. This fellow has a good deal of strong history in his pedigree, as well as strong character in his make-up. There are a couple of others in the barns ready for sale that are away ahead of the average bull. They are all solid reds, all in nice condition of flesh and desirable without exception. For special prices on these bulls, which it is desired to sell at an early date, write to Mr. G. A. Bonewell, Grinnell, Iowa.

A Liberal Free Offer.

Farmers who have horses affected with scratches, mud fever, grease heel, quarter crack or corns will be interested in the great free announcement of the Corona Mfg. Co., which appears on page 5. This firm manufacture Wool Fat Ointment, which is commended as a remedy for all the above difficulties and because of its unfailing value the manufacturers send a two-pound can of it free. After having used it fifteen days, if it proves to be satisfactory \$1 may be sent. If it does not it doesn't cost you anything. To take advantage of this offer at once, write to the Corona Mfg. Co., 4 Main St., Ashland, Ohio.

Evergreen Herd of Poland Chinas.

Mr. Henry Dorr, of Remsen, Iowa, proprietor of the Evergreen herd of Poland Chinas, reports 110 spring pigs on hand, also twelve fall boars. The spring pigs are the get of Dorr's Expansion 152095 (he by old Expansion), Big Price (he by Dry Creek Chief), Exception (he by Varsity Expansion) and 2d Pawnee Lad (by old Pawnee Lad). The fall boars are the get of Big Stand-ard 147647, he by Big Sensation (by Young Tecumseh). The dams of these good pigs are mostly the daughters of Dorr's Tecumseh. If you want an extra good fall boar to head your herd, Mr. Dorr can supply your wants. Among the twelve head that he has on hand are some outstanding good ones. He also has some good prospects in the male spring pigs for very choice headers. Mr. Dorr will be glad to correspond with anyone who is looking after Poland China herd headers of the big and prolific kind.

Last Call for the Miller Clydesdale Sale.

At Chariton, Iowa, on June 1st, Mr. R. O. Miller will make a public sale of twenty-five head of registered Clydesdale mares and stallions and it promises to be one of the good opportunities to buy some good mares and some young stallions. Mr. Miller is one of the best-known Clydesdale breeders and importers in the state and this is the first public sale that he has ever held. In his announcement he has the following to say about this offering: "On account of the great demand for brood mares, I have decided to offer at public sale, twenty registered Clydesdale mares, ranging in age from one to six years old, mostly three to five. The only apology that I need to make for these mares is that they are thin in flesh. I know they would make an average of \$100 a head more if they were fat, but my loss in this will be a gain to the buyers. They have all been imported this spring, and most of them taken out of the harness there, and after a long shipment I put them right on to the gang plow and disk, so they have not had a chance to put on flesh. All old enough will be bred, most of them to Right Choice 14601. He won first at Ottawa and first at Toronto as a yearling. I am making this sale at Chariton for convenience of buyers. I am also putting in four young stallions of merit. Each animal is recorded in Clydesdale Stud Book of America." There will be one six-year-old imported mare in the sale and the remainder will

TOO LATE TO CLASSIFY.

DUROC JERSEY BRED SOWS FOR SALE

I AM offering about 10 sows for sale bred for fall litter to my noted sweepstakes boar, **Crimson Wonder Again**, and **Model Chief 8th**. These are daughters of H. A.'s Choice Goods, Perfection Chief and Crimson Wonder Again. Also two fall boars for sale, sired by **Crimson Wonder Again**.

Write me at once. Address **H. S. ALLEN, RUSSELL, IOWA.**

FOR SALE

KING KASSIMER 47820, dark bay, foaled 1906; 16 hands; will make a 1,200-lb. horse in another year. Is sound; sire Lockwood Lad; dam Haldee. He is a beautiful horse, thoroughly broke; is not afraid of autos or anything else. Price, \$400. Time will be given on bankable paper or chattel security. This advertisement appears but once. Mention this paper when writing.

Amos Hanson, Collins, Story County, Iowa.

BIG-TYPE POLAND CHINAS

WITH big-type blood lines. Sixty head of bred sows averaged \$66.87 at our last sale, supreme evidence of the kind we breed and sell. Our herd is made up of the most noted animals of the type and breed. Spring pigs of either sex by Big Ex. (the 1,070-lb. son of Pawnee Chief), Superior Look, (a great son of Grand Look), and Chief Price (the big yearling with a 10-inch bone), a trio of boars with few equals in the corn belt. Write for special prices on small herds not akin. Address **W. H. COOPER - HEDRICK, IOWA.**

HIGH-CLASS SCOTCH SHORT-HORN BULLS

WE have a number of bulls right around a year old; solid red in color; blocky, symmetrical, well-finished fellows, with merit enough to entitle them to places at the head of good herds. They are all by Lord Banff Jr. and out of cows of straight Scotch lines of breeding. We want you to see them. **G. A. BONEWELL, GRINNELL, IOWA.**

LAWNDALE SHORT-HORNS

FOR SALE: Six choice Scotch and Scotch-topped bulls from 14 to 24 months old. Good individuals, good colors and best of breeding. Will be priced low for quick sale.

G. T. HAGGARD, HELVEY, NEB.

32 FALL BOARS

I HAVE 32 excellent fall boars for sale, sired by **Big Jerico** and **Model Chief** out of my largest big-type sows. These are big-boned fellows. Also spring boars for sale. Address **CHAS. W. HUMERICK, ATLANTIC, IOWA.**

When writing to advertisers please mention this paper.

be all young. Mr. Miller is also selling some good young Clydesdale stallions in the sale. These were all bred in Canada and were selected by Mr. Robert Miller, one of the best-known breeders across the border. If you are wanting Clydesdale stallions or mares write Mr. R. O. Miller, Lucas, Iowa, for catalog and mention this paper. Remember the sale will be held at Char

THE NINTH ANNUAL SALE OF
IMPORTED AND HOME-BRED
ABERDEEN ANGUS

CATTLE

AT MAPLE GROVE, ONE MILE WEST OF
MARCUS, IA., THURSDAY, JUNE 9, 1910

THE PROPERTY OF JAMES WILLIAMS

**SIX BULLS AND FORTY COWS
AND HEIFERS**

OF the most fashionable families. The old famous tribe of Blackbird of Corskie holds first place in numbers as well as in the high estimation of the breeders, and eighteen head are cataloged for this sale, and a better and more useful lot of cattle never faced an Iowa crowd. The Pride of Aberdeen, with fifteen, are as good individually and in breeding as could be selected from one herd in the world. And the branches of this family are of the most noted ones, which have never and will never lose their popularity as long as they are bred right. The Trojan Ericas are six in number, but they are very few in America, and it is a great sacrifice for any breeder to offer as many as six. The Queen Mothers are as good as any breeder could ask for. If you are interested in the breeding of cattle, and you want to get started right, send for a catalog and come to this sale; you will never be sorry that you purchased cattle of Jim Williams, Marcus, Iowa. Send for catalog; mention Homestead.

M. A. Judy, Sale Mgr., West Lebanon, Ind.

Cols. Igo, Reppert, Binnie and Lyman, Auctioneers.

**BEAVER CREEK
SHORT-HORNS**

AT AUCTION ON MY FARM 3 MILES NORTH OF
ROLFE, IOWA, JUNE 16, 1910

**52 HEAD ALL SCOTCH
40 Females—12 Bulls**

TWELVE cows with calves at foot, balance due to calve, except 20 open heifers, ages 14 to 20 months, mostly the get of Sultan, the herd bull, one of the great sons of Whitehall Sultan. All are straight Scotch, and represent the most famous families, such as Victoria, Lavender, Miss Ramsden, Dorothy and others. The 12 bulls, ranging in age from 10 to 18 months, several of them outstanding, and great show prospects for this year; all good colors and of the very best of Scotch breeding. Several of them sired by my herd bull, Sultan, and out of imported dams. This will be one of the best offerings that has ever been offered at public auction from the Beaver Creek herd. There will be free accommodations from Rolfe, to and from the farm; free lunch at noon. For catalogs, write

N. A. LIND, ROLFE, IOWA.

Cols. Woods, Bellows and Jones, Auctioneers.

Robt. E. Haeger's FIFTH ANNUAL AUCTION

350 HEAD REGISTERED HOLSTEIN-FRIESIANS.
America's Largest Sale of the World's Best Dairy Cattle.

JUNE 21, 22, and 23, 1910—THREE BIG DAYS

100 COWS.

Many with official records and others that can make them. Great, large beauties with perfect udders and teats that are sure to please you.

200 HEIFERS.

That have their whole life before them. Sired by the best bulls and many out of large-record dams. This is greatest bunch of heifers ever offered at auction.

50 BULLS.

From two months to four years in age. Show bulls of the highest quality sired by the best bulls in the world and out of dams that show quality and production.

REMEMBER: All stock over six months old is tuberculin tested. That we offer stock in this sale that others would not price you. Catalog ready June 8th, mailed on application.

Robert E. Haeger, Box E, Algonquin, McHenry Co., Ill.

100 REGISTERED HOLSTEINS 100

AT AUCTION

At South Omaha, Neb., Tuesday, June 28th

CONSISTING of 50 cows and heifers in milk or soon fresh, a number in calf to noted eastern bulls; 25 heifers and heifer calves; 25 bulls and bull calves. A high-class lot. Every animal tuberculin tested. Watch later issues for full particulars. Catalogs ready about June 15th.

Rock Brook Farm, Henry C. Glissman, Sta. B, Omaha, Neb.

ton, Iowa, on the main line of the C. B. & Q. railroad, on June 1st. Be sure to be present on day of sale if you are in the market for registered Clydesdales. See page 32.

The Cutler Short-horn Sale.

The sale of Mr. W. E. Cutler, at his farm near Corydon, Iowa, on May 20th, brought out a good crowd and thirty-nine head averaged \$95. Champion Commodore, the herd bull, went to Mr. J. E. Free, of Melrose, Iowa, at \$335. He was a son of Young Commodore out of Imp. Scarlet Spangle. Choice Broadhooks, a son of the above bull, went to Mr. A. R. Linn, of Woodburn, Iowa, at \$185, and Broadhooks Victor was secured by Mr. J. W. McDougal, of Chariton, Iowa, at \$137.50. Broadhooks Chief, a splendid Scotch-topped bull, was secured by Mr. James H. Lacock, of Powersville, Mo., at \$152.50 and he was a splendid bargain at that price, as was also Red Prince that went to Mr. H. T. Ahee, of Unionville, Iowa, at \$102.50. The bulls averaged \$102.25. The top of the females was Queen Gloster, that went to Mr. Henry Funke, of Greenfield, Iowa, at \$230, and her daughter was secured by Mr. James McMurray, of Corydon, Iowa, at \$135. He also secured Victoria Funke 8th at \$132.50 and Victoria Lavender at \$105. Orange Bloom went to Mr. J. I. Freen, of Melrose, Iowa, at \$172.50 and Bonnie Alexander was purchased by Mr. R. E. Alexander, of Osceola, Iowa, at \$170. Col. Geo. P. Bellows cried the sale.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central

station at Des Moines, for the week ending May 22, 1910:

Continued cool weather has prevailed during the last seven days, but the rainfall, for the state as a whole, has been much heavier than during any previous week of the season. The temperature was from 1 to 5 degrees below the normal and light frost was reported from several localities on the 18th. Copious rains fell in the central and northeastern districts, where amounts from one to over three inches were reported. The rain has been very beneficial to grass, small grain, potatoes and garden truck and with warm weather would hasten the germination of corn. Practically all the corn acreage has been planted, but owing to poor seed and cold weather there will be much more replanting done than usual. The rains have also been beneficial to the berry crops and the indications are now favorable for one-fourth to one-half crop of strawberries. Many apple, cherry, plum trees and grape vines are again putting forth new blossoms.

Geo. M. Chappel,
Station Director.

GROWING MANGEL WURZELS.

To the Editor of The Homestead:

The value of this vegetable for feeding purposes has long been recognized, but never overestimated. It is the most productive root crop grown, and consequently the cheapest feed. Cows, hogs and hens consume it in large quantities if it is furnished them. For best success in growing, the soil should be rich and finely pulverized. The mangel does not need a long season, so that it is

useless to plant until the soil is in fit condition. From the fifth to the tenth of May is about right.

Use plenty of seed, but when an inch high thin to five or six inches apart. The plant removed may be set out, and will produce good roots, only a trifle later than the main crop. Make the rows two and a half to three feet apart giving room for horse culture. Under ordinary conditions three or four times through with the cultivator will be enough, and in addition to this keep the row clear of weeds, between plants.

If all this is well done you will have roots eighteen inches long, and five inches in diameter. The yield per acre is simply enormous, so that the majority of growers will only need to use a small space to supply their needs. If the roots do not grow large it is because your soil is not rich enough. Apply plenty of rotted stable manure, and get it thoroughly mixed with soil. The mangel will stand light frosts, but a heavy freeze will injure and lead to rotting. As a rule anywhere in the corn belt it is safe to leave them out until the last of October. Cut the tops off for immediate use as cow feed and then the roots may be covered up in the root cellar, like so much cord wood. To prepare them for feeding cows, a cutter is used. Hogs are able to do their own cutting. Hens will pick them

YORKSHIRE SWINE.



**LARGE YORKSHIRES
Champion Herd of U. S.**

For Sale Now—Over 600 pure-bred pigs, farrowed since March 6th; also a few gilts of spring and fall, 1909, bred for litters this coming fall. Address

Thos. H. Canfield, Box 7, Lake Park, Minn.

to pieces. They will help fowls through the winter in good health, when no other green feed is used.

M. E. H.

A bill providing for the opening to agricultural settlement of lands which have been classified as coal lands was passed by the house. The measure would reserve about 70,000,000 acres of coal lands for agricultural purposes.

LIVE STOCK AUCTIONEERS.

Col. Carey M. Jones

THE President of Jones' National School of Live Stock Auctioneering is one of America's leading Live Stock Auctioneers. While he gives the School his personal attention and instruction he is only one of fourteen instructors and lecturers of national reputation employed for the coming term of five weeks opening July 25, 1910. Actual practice required at the school before diplomas are given. For catalog and information address

ORVAL A. JONES, Manager,
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SALES made anywhere.
Reasonable terms. Have
pleased others; can please you.

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WEST LIBERTY, IOWA.

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SALES made anywhere. Reason-
able terms. I also breed Poland
Chinas and Short-horns.

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Fifteen years' experience
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**R. W. Mitchell, Albany, Mo.**

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EIGHTEEN years' experience. Write me for
dates. Copies of my live stock poems free when
stamp is enclosed. Am booking fall, winter and
spring dates.

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I have a wide acquaintance
among pure-bred breeders and
am thoroughly posted in my
vocation.

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SEVENTEEN years' experience in the business.
My customers are my best references. Write for
dates. Terms right and satisfaction guaranteed.
W. F. STRATTON, CAMBRIDGE, IOWA,
Breeder Short-horn cattle and Duroc Jersey swine.

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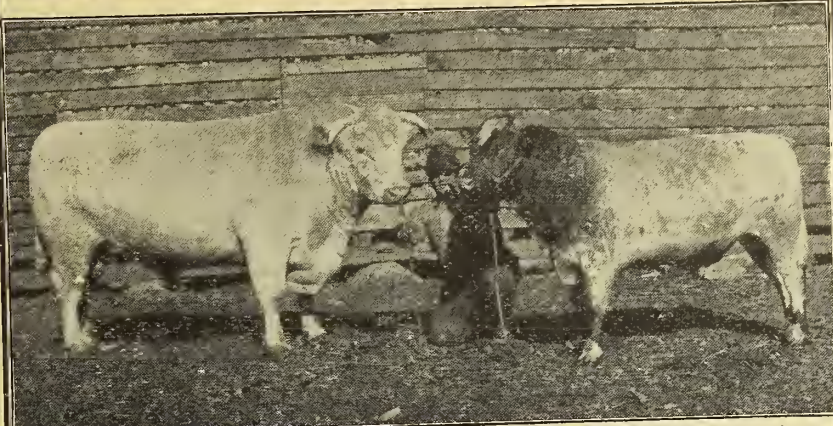
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Dispersion Sale of WINDY SUMMIT HERD
SCOTCH AND SCOTCH-TOPPED**SHORT-HORNS**

SALE TO BE HELD IN MARSHALL'S FEED YARD

MALVERN, IOWA, JUNE 1, '10

45 HEAD--43 COWS AND HEIFERS, 2 BULLS--45 HEAD



BUD WHITE,
Third-prize bull, International.

SECRET ARCHER 311145,
A son of Ceremonious Archer.

INCLUDED will be my two herd bulls, Bud White, third-prize bull at International Exposition and Secret Archer, a son of Ceremonious Archer. Twenty head of calves at foot. If you want some good milking Short-horns come to my sale. This sale of mine will certainly be the place to buy Short-horns. Send for my catalog at once. Col. Geo. P. Bellows, Auctioneer. Please mention Homestead when writing.

H. L. SUMMERS, MALVERN, IA.

LIVE STOCK AUCTIONEERS.



121 Students in Attendance at January Term, 1910.

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AUGUST 1, 1910, is opening date at Trenton, Mo., for our next term. Additional instructors. A selected from America's leading auctioneers, have been engaged to instruct and lecture during this term. No other profession paying better can be attained at ten times the expense and time. Whether legal, medical or otherwise, for those who will apply themselves. Our correspondence course is greatly appreciated by those who cannot attend personally. Illustrated catalogs of either course for the asking. WM. B. CARPENTER, Pres., Trenton, Mo., or Oklahoma City, Okla.

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ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

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Have judged at Illinois and Iowa State Fairs. Have sold for the best breeders of the central West the past three years and have them rebooked. Posted on pedigrees and values. Sales made anywhere. Terms \$20 and expenses. I always deliver the goods. Write me for dates at Sunny Hill, Ill.

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Thoroughly posted as to pedigrees and values.
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Live Stock Artist. Write me.

DUROC JERSEY SWINE.

MODEL WONDER
Fall Boars For Sale

We have a few very choice fall boars for sale. One herd header of much quality out of Chief's Jewel, champion sow Iowa State Fair, 1909. Others out of Proud Advance and Top Notcher Again dams. For prices and description address

HANKS & BISHOP,
NEW LONDON - IOWA.

HIGH CLASS
DUROC JERSEY BOARS

I have five September boars sired by the sweepstakes boar, Crimson Wonder Again, and out of H. A.'s Queen for sale that are sensational herd boar propositions. Also a number of other good boars. Write or come and see me. W. M. SELLS, INDIANOLA, IOWA.

Helen's Chief
High Notcher

and Glad Col. head my herd of Durocs.
Write for what you want.

M. A. KRASCHEL, MACON, ILLINOIS.

DUROC JERSEYS

Thirty fall boars and ten gilts sired by Col's King, dams by Arthur's Choice, Proud Advance, Inventor, Commodore and Tokio Paul. Would also sell Arthur's Choice, the pig that cleaned the first prizes at the Illinois State Fair, 1907. This stuff is growthy, but not fat. Arthur L. Parks, Leland, Ill.

The Sugar Loaf
Duroc Jersey Herd

Col. S. and Ohio Chief's Banner
HEAD HERD

A few gilts bred to the above boars for sale. Address
C. C. Cushman, Mgr., Chillicothe, Ohio.

COL. J. CASTEEL
Offers Fall Boars

Ten fall males ready for service, by Champion Paul II. Dams of choice breeding. Will price them worth the money if ordered at once.

COL. JAY CASTEEL, Cambridge, Ill.

For Sale--12 Extra Choice Fall Boars

If you need an extra good Duroc boar we have them by Manley Orion's Son by Manley Orion, dam by Keep On II. These pigs are out of dams by Educator, Champion Paul and others. Will be priced worth the money and are fit for immediate service. Address

GEO. L. MILLER, COAL VALLEY, ILL.
Care of Buck & Miller.

Do You Need a Boar

I HAVE good ones by S. E.'s Model 80743 by Model I Chief, dam by Advancer. The dams of these boars are by Keep On III, Proud Advance and others equally as good. These males have quality and some are fit to go into the best herds in the land. Will price them cheap. My spring pigs are extra good, and of the best breeding. Write me or come and see. Please mention The Homestead.

S. E. EAKLE, PROPHETSTOWN, ILL.

FALL BOARS
FOR SALE

BY O. & I. 82341, a line bred Col. and Protection boar of show yard quality; dams by Buddy K. IV. and Ambition. A few fall gilts, either open or will breed them. Also have 3 Scotch-topped Double Standard Polled Durham bulls for sale. Please mention The Homestead. Address

MENAUGH BROS. - MAZON, ILLINOIS.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and
Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY.
Write Your Wants.

MODEL TOP

HEADS herd, assisted by King Wonder. Both these boars are State Fair champions and producers of show animals.

Bardwell & Barnard, McHenry, Ky

PUBLIC SALE OF HAVENHURST SHORT-HORNS

40-HEAD OF SCOTCH AND SCOTCH-TOPPED SHOW AND BREEDING CATTLE-40
JUNE 2, 1910, AT CROFTON, NEBRASKA.

EIGHT BULLS by such noted sires as "Archer 205740," White Hall Count 209775, Lord Banff 3d 232194, Royal Gloster 251792 and Bold Archer 271597, which is included in the sale. He is a massive red Scotch show and breeding bull of great merit, sired by Imp. Straight Archer 209098 out of Mary Ramsden, the dam of the \$1,450 show heifer, Merry Maid; a bull that is right in every way, with a nice head, droop horn, strong lines, smooth tail head, good hind quarters and a great breeder. 32 Cows and Heifers—10 are Scotch, of the Nonpareil, Matchless, Acorn, English Lady, Gwendoline and Blooming Pride families. Ten have calves at foot; three are by imported bulls; three are granddaughters of Choice Goods. All are good individuals and excellent breeders. Ten head in the sale are by that great sire, Archer 205740.

Auctioneers—Col. Geo. Bellows, Maryville, Mo.; Col. L. M. Baird, Hartington, Neb. Write for catalog to **Havenhurst Stock Farm, Biller & Son, Hartington, Nebraska.**

Attention is called to the sale under the management of the American Short-horn Breeders' Association at Mitchell, South Dakota, Friday, June 3d.

DUROC JERSEY SWINE.

20 DUROC JERSEY FALL BOARS

Sired by Shabona, he by Highland Duke by Chief of All, dam Lady Chief by Golden Crown. The dams of these boars are by Ambition, Cash Register, Big I Am and Tip's Pride. Write for description and prices to **W. R. CHILDS, PRINCETON, ILLINOIS.** When writing, kindly mention The Homestead.

Fall Males and Gilts FOR SALE

Sired by Defender and others out of the dam of Defender. Prices reasonable for such breeding and stuff of much quality. Mention The Homestead. **FRED BROWN, LOAMI, ILLINOIS.**

20 Duroc Boars 20

Got by King of Cols. II. and G. C.'s Col. Dams are Model Chief Again sows. All are good, of summer and fall 1909 farrow. Spring pigs doing fine. Address **FRANK ELDER, GREEN, KANSAS.**

30 Duroc Gilts 30

Summer and fall farrow. Sired by G. C.'s Kan. Col. Bred to son of King of Cols. II. and W. L. A.'s Choice Goods dam, few to Nebraska Wonder, Crimmon Wonder's best son. Also fall boars, same breeding. **CHAPIN & NORDSTRUM, Green, Kan.**

BUY A BOAR NOW FOR SALE

FIVE fall boars. Choice, growthy fellows by Hard Advance by Harding's Proud Advance; dams by Pilot Lad II. by Checkmate, second in class, World's Fair, St. Louis. These are big enough for immediate service. In writing, mention this paper. **H. K. RAY, KEWANEE, ILLINOIS.**

FOR SALE 10 FALL DUROC MALES

By Rose Chief by Belle's Chief by Ohio Chief, dams of Proud Advance and Pilot Wonder breeding. These males are ready for service and the prices are right. Write for prices and description, mentioning The Homestead. **W. A. FELL, CAMBRIDGE, ILLINOIS.**

HUFF'S DUROCS

HUFF'S Advance, Brighton Wonder, Buddy's Improver. A few choice September boars for sale. The "Always Better Kind." **C. W. HUFF - MONDAMIN, IOWA.**

BRED SOWS---ANGUS BULLS

WE have thirty head of well-bred Duroc Jersey sows, to farrow in May, for sale, at \$35 to \$50. Also a few fancy bred Angus bulls. Address **WHITE BROS. - PERRY, IOWA.**

FOR SALE—20 FALL SOWS

Bred to the champions, B. & C.'s Col. and Crimmon Wonder III. They are sired by B. & C.'s Col., Col. S. and McNeill's Model. Price \$50 to \$65. First come, first served. Address **Ed. A. Baxter, Pawnee, Illinois.**

Real Reds to "Show You"

OUR crop of spring boars (sows are all reserved) carry the blood of King of Cols., Ohio Chief, Model Chief, etc., through strains of prize winners. They are right. Orders booked now. **E. W. Davis & Co., Glenwood, Missouri.**

DUROC JERSEY BOARS

I HAVE four splendid fall boars for sale, sired by Iowa Model and out of Missouri Girl II.; long, wide and heavy-boned fellows. Also booking orders for spring boars. Prices, \$25 to \$50. Address **MARK W. EDDY, FONTANELLE, IOWA.**

MIDLAND Herd Duroc Jerseys. Bred sows all sold. Yearling boar for sale. Orders booked for spring pigs, July delivery. **S. J. Butts, Mason City, Ia.**

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE



My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1909. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**



WAYSIDE HAMPSHIRE

WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead. **MIKE SHARP - COAL VALLEY, ILL.**

STONE STOCK FARM HAMPSHIRE

MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, **E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.**

Hampshire Pigs

I AM now booking orders for spring pigs—male and female—and will begin to ship about June 1st. They are by four different sires and represent the strains with which I won championship on pen of barrows at the International show of 1909. **JOHN GOODWINE, POTOMAC, ILL.**

HAMPSHIRE Swine

WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

25 Head of Spring Boars 5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable. **H. D. DeKALB - DeKALB, IOWA.**



HAMPSHIRE SWINE

For sale. A few fine fall boars. Also a number of gilts bred to farrow the last of August and first of September. All my stock of same breeding as my 1909 state fair winners. Write for prices and description, mentioning The Homestead. **WILLIE ESSIG, TIPTON, INDIANA.**

When writing mention this paper.

CHESTER WHITE SWINE.



CHOICE FALL BOARS FOR SALE

THEY are of the same prize-winning blood as those with which I won 141 prizes at five big state fairs of 1909. Low prices to quick buyers, as I must make room for the spring crop. **D. H. LEWIS, GENESEO, ILL.**

35 CHESTER WHITE BOARS AND SOWS

FOR SALE—Extra good ones, sired by Buster 19055. A son of Combination out of daughters of the noted prize winner, Modeller. Prices reasonable. **John P. Holst, Jr., Denison, Iowa.**

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. **Fred Ruebush, Sciota, Ill.**

O. I. C. Highland Teddy; first at Des Moines in 1908. Address **Allen Bros., Russell, Iowa.**

CHESTER WHITE FALL BOARS

I HAVE a few choice fall boars, old enough for service, and will quote low prices on them. Sows and gilts are all sold. **S. J. PHILSON, Route 6, Harlan, Iowa.**

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. **E. J. Trumbauer, St. Charles, Iowa.**

MEHRING Choice O. I. C. strong-boned, smooth, well-quartered July boars for sale. Some fine Shropshire bucks. **H. C. Mehring, Manson, Ia.**

POLAND CHINA SWINE.

McINTYRE'S BIG-BONED POLAND CHINAS

SPRING yearling sows bred for June and July farrow; tried sows bred for August and September. A few yearling boars, 50 choice September, 1909, boars and gilts, and boars and gilts of March and April, 1910, farrow, to be delivered at 3 to 5 months old. Blood of P. W. Giant, Hadley, Jumbo and Victor. Foundation stuff or new blood. **F. W. McINTYRE, Route 5, RED OAK, IOWA.**

WILLIAMS BROS.' POLAND CHINAS

THE LARGE TYPE, WITH QUALITY COMBINED. 275 SPRING BOARS AND GILTS, and a number of fall boars for sale. These are sired by W.'s Major 45234, Young Look 47722, Pawnee Price 47721 and Villisca Chief. SPECIAL PRICES. We are offering spring boar pigs and gilts at \$25 each, and we guarantee satisfaction. Also some extra choice fall boars. Address **WILLIAMS BROS., VILLISCA, IOWA.**

12 Fall Boars--25 Spring Boars

I AM offering a splendid lot of big-type, big-boned fall and spring boars for sale, sired by B. Wonder, A Wonder, Orange King and Big Ex. Address **J. G. LONG - HARLAN, IOWA.**

PROUD TECUMSEH 101353 FOR SALE

I AM offering the above 3-year-old herd boar for sale; also 18 fall boars and gilts at bargain prices. Address **Herman Buttz, Fremont, Neb.**

POLAND CHINA SWINE.

FALL BOARS FOR SALE

I am now offering some splendid fall boars for sale sired by my noted show and breeding boar Big Victor and out of my best sows. Address, **D. C. LONERGAN, Florence, Nebraska.**

RED POLLED CATTLE.

RED POLLED BULLS

TWO yearlings and some younger ones. Also offer our herd bull, Advancer, by Profector. Write for description, breeding and prices. **C. W. HUFF - MONDAMIN, IOWA.**

CHOICE RED POLLS FOR SALE

SINGLY or in car lots. Best of breeding, good individuals and splendid milkers. These cattle are priced to sell. **Wendell Heil & Sons, Cedar Creek, Neb.**

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. **W. B. Danforth, Little Cedar, Iowa.**

ABERDEEN ANGUS CATTLE.

CARLOAD

Angus Bulls

Sired by Scottish Hero 52494 and Glen's Prilleno 91606. In ages from 10 to 20 months, in good, useful condition for the buyer. If you want bargain prices on bulls write me.

JOHN E. GRIFFITH, WASHINGTON - IOWA.

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfoill Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfoill Thicket, priced right for quick sales. Farm in city limits. **O. V. Battles, Maquoketa, Iowa.** **W. P. Brown, Herdsman.**

INVERNESS ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, **ED. T. DAVIS, IOWA CITY, IOWA.**

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd and we invite inspection. Our herd is now headed by imported Ideal of Stranden 25158 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. **R. Wilkinson & Sons, Mitchellville, Ia.**

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equestor; also a few choice cows and heifers. Prices reasonable. **WILL L. COLEMAN, CORNING, IOWA.**

Aberdeen Angus Bulls for Sale

I HAVE a splendid 2-year-old Trojan Erica, a 2-year-old Blackbird and Pride bull. Also Queen Mothers and several younger bulls at bed rock prices. **John H. Fitch, Lake City, Iowa.**

ANGUS BULLS, COWS and HEIFERS

THREE bulls for sale; also three bull calves, dropped last August and Sept. They are sired by ton bulls and out of one of the best beef cow herds in the state. My cattle have size, breeding, quality. Call on or address **A. G. Messer, Grundy Center, Ia.**

HIGH-CLASS ANGUS BULLS FOR SALE

WE are offering a splendid 2-year-old, double-bred Blackbird bull for sale; one excellent gilt bull; 3 Prides and several others. These are good bulls, and our prices are bed rock. **Isenbarger Bros., Battle Creek, Iowa.**

ALFALFA HERD ABERDEEN ANGUS

Ericks, Blackbirds, Prides, Queen Mothers for sale. **Harri-son & Harri-son, Indianola, Neb.**

FOR SALE--A GOOD 18-MONTHS-OLD ANGUS BULL. Priced reasonable. **R. J. Kidson, Pointosue, Illinois.**

THE THIRD ANNUAL SALE OF THE GREAT WOODLAWN HERD OF HIGH-CLASS ABERDEEN ANGUS CATTLE WILL TAKE PLACE AT WOODLAWN CRESTON, ILLINOIS, WEDNESDAY, JUNE 8, 1910

THE PROPERTY OF STANLEY R. PIERCE, CRESTON, ILLINOIS, AND JOHN D. EVANS, SUGAR GROVE, ILLINOIS.

100 HEAD OF BULLS, COWS AND HEIFERS

OF the most popular families; 40 Blackbirds, more of this aristocratic family than ever was cataloged before for one sale; 18 Trojan Ericas that have never been equaled; 25 of the noted Pride of Aberdeen family and many other noted families. Nothing but the very highest bred and the best individuals of the two herds have been cataloged for this occasion. The sires in this consignment represent the blood of all the great prize winners. Nothing but high-class individuals are included in this sale. Bulls that are herd headers of the highest type. Cows and heifers that are prize winners in any class or show. More than 50 cows have calves at foot; cows that have bull calves at foot that will make herd headers; cows that have heifer calves at foot that will win prizes in any class this year. If you are interested in the breeding of beef cattle, send for a catalog, study the breeding of the animals, come to the sale and if you do not see the greatest lot of beef cattle ever sent through a sale ring we will pay all your expenses both ways. Send for catalog, mention The Homestead. If you want to see the greatest sale of beef cattle that will take place this year come to this sale.

STANLEY R. PIERCE, CRESTON, ILL., OR JOHN D. EVANS, SUGAR GROVE, ILLINOIS.
AUCTIONS---COLS. SILAS IGO, BINNIE, REPPERT and OCKER. M. A. JUDY, SALE MANAGER, WEST LEBANON, IND.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Donohoe, of Holbrook, Iowa, and C. P. Leuby, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

SHORT-HORN CATTLE.

REGISTERED BULLS WANTED

We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd headers. Write us immediately. Address Bragonier & Son, South Omaha, Neb.

Wildwood Scotch and Scotch-Topped SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Brawith Lad. For description and prices, address W. W. VAUGHN, MARION, IOWA.

A FEW CHOICE SCOTCH SHORT-HORN BULLS For Sale

I Barr & Son, Davenport, Ia.

Three Pure Scotch Bulls For Sale

FOURTEEN to 18 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. T. A. DAVENPORT, BELMOND, IOWA.

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns. HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address

GEO. H. WHITE, EMERSON, IOWA.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

MILKING SHORT-HORNS

YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk, or weigh in the milk for the herd. BLACKMER & NELSON, Albert Lea, Minn. Farms 1 and 2 miles from town.

SHORT-HORN CATTLE.

ELK CREEK SHORT-HORNS

Five good bulls for sale, sired by Jolly Hampton, Custer Butterfly and Crimson Scot. Good colors and good individuals. Prices right. Auto phone 1902. Address

S. A. Nelson & Sons, Malcolm, Neb.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

SCOTCH and SCOTCH-TOPPED BULLS

I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athene. Others that are strictly choice. Also several Scotch-topped bulls by Lord Mutineer. Prices low if taken soon. PERRY O. BROWN, LAMONT, IOWA.

FOR SALE QUICK

A "REAL" herd header, red, "Cruickshank Secret," 22 months old, bred by Chas. C. Norton, son of his noted "Gloster's Favorite." You will buy if you see him. Write us now for particulars. H. S. & W. B. Duncan, Clearfield, Taylor Co., Ia.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Wm. M. Smith & Sons, West Branch, Iowa.

CHAS. C. NORTON, CORNING, IOWA,

IF AS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants.

W. J. HATHER, ORD, NEBRASKA.

SHORT-HORN CATTLE.

CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and bred to Narcissus King, singly or by carload. You will buy if you see them. R. J. COX, GRINNELL, IOWA

MONDAMIN SHORT-HORNS

WE now offer three yearling bulls at prices that will induce men to buy. Two red ones by Valiant Jr., a roan by Gwendoline's Boy. Also some choice younger calves by same sires for sale. Visit or write us. Address HELD BROS., HINTON, PLYMOUTH COUNTY, IOWA.

SCOTCH BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.

Good Red Short-horn Bulls

A DOZEN Scotch and Scotch-topped bulls, 10 to 24 months old, some good enough for the best herds, others suitable for farmers. Sires Courtier 5th 277599 and Baron Secret 2d 289279. Address OWENS BROS., HOMESTEAD, IOWA.

GOOD RED SHORT-HORN Bulls

FOR SALE. Sired by Knight Commander, he by the great March Knight; also a limited number of choice females. Get my prices before buying. HENRY P. MCCARTNEY, YORK, NEB.

BATES BULLS

SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

5 GOOD SHORT-HORN BULLS

Scotch and Scotch-Topped. From good milking dams. Prices reasonable. F. M. Hall, Friend, Neb.

Cedar Hill Short-horns

Three good young bulls for sale. Best of breeding and individuality.

IRVIN E. WILSON, Belvidere, Nebraska.

Plain View Stock Farm

6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address GEO. A. HANS, NEWTON, IOWA.

When writing mention this paper.

S. H. THOMPSON'S SONS IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

SHORT-HORNS AND POLAND CHINAS

Five Scotch and Scotch-topped Short-horn bulls. Three extra Poland China fall boars. Bulls are sired by Victor's Roan Duke, Lavender King and Ury Chief. Boars by Wade's Jumbo and Allerton Chief. Best of individuals and are priced worth the money. Address

O. E. WADE, Rising City, Nebraska.

WHITE BROS.

CENTERVILLE, IOWA.

SCOTCH and SCOTCH-TOPPED Short-horn cattle, im-

ported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

HEREFORD CATTLE.

HEREFORD BULLS

I AM offering six young Hereford bulls for sale; good, clocky fellows, with good colors and heavy bone. Will price these bulls right. Address

A. F. HAGER, AVOCA, IA.

HEREFORD Cattle

GOOD young cattle, bulls or heifers, for sale. Herd headed by Improver's Hesiod 107727. Blood lines of popular strains.

D. S. O'LEARY, IOWA CITY, IOWA.

America's Greatest Aberdeen Angus Cattle Sale

Of the Season. Arrange to Attend the Two Days' Sale at the Sale Pavilion,
SO. OMAHA, NEB., WEDNESDAY AND THURSDAY, JUNE 1-2, 1910

WE PRACTICE WHAT WE PREACH

We claim that Aberdeen Angus cattle justly deserve the name of MARKET TOPPERS and we have demonstrated this fact by our winnings at the Pittsburg Fat Stock Show and the Chicago International, America's greatest cattle show. Our average at these shows stands unequaled by any breeder of any beef breed of cattle in America, and we submit the following list for your consideration and comparison:

	Sold for
1901 The world record breakers at the Pittsburg Fat Stock Show	\$21.50 per cwt.
1902 Grand Champion two-year-olds at Chicago	14.50 per cwt.
1904 Champion Yearlings at Chicago	12.25 per cwt.
1908 Second-prize two-year-olds and Reserve Champions at Chicago	11.00 per cwt.
1909 Champion two-year-olds and reserve Grand Champions at Chicago	14.50 per cwt.
1909 Second-prize two-year-olds at Chicago	12.00 per cwt.
Average	\$14.30 per cwt.

FIGURES ARE FACTS

120, the tops of Great Britain's and America's best, and the blend that comes from the uniting of both; 33 Ericas, the grandest offering of this, the greatest tribe of the Aberdeen Angus breed that has ever been offered in America in any one sale; 18 Blackbirds, representing all the branches of America's most noted family; 12 Heatherblooms, representatives of this family which is noted for great scale and quality; 20 Prides of Aberdeen, members of this family which have made Angus history from Wm. McCombie's day to the present time; 12 Queen Mothers, descendants of the grand old cow, Queen Mother, the queen of all Angus cows; last, but not least, 25 representatives of the good old standard families, the mothers and sisters of our prize-winning steers, and as the ultimate of all beef is the barrel, what more do you wish than an opportunity to secure foundation females that have produced the grandest specimens of prime beef in America. If in need of a herd bull or foundation females or fresh blood to add to your herd, no matter where you are located in this country, it will be to your interest to be present at this sale, as the large offering insures bargains in plenty.

Auctioneers—Colonels Igo, Reppert, Callahan and Judy.

PLEASE MENTION THE HOMESTEAD WHEN WRITING FOR CATALOG. WRITE FOR AN ILLUSTRATED CATALOG TO

Chas. Escher & Son, Botna, Ia., or Escher & Ryan, Irwin, Ia.

HEREFORD CATTLE.

Brookmont Herefords



IMP. MARCH ON 76035, Father of All March Ons, now in Brookmont Herd.

CHOICE YOUNG HEIFERS

with calf at foot are a special offering just now. We also have a superior lot of bulls, ten months to two years old, excellent in breeding, individuality and type. You can have them at just about your own price.

A. E. COOK, Odebolt, Ia.

Spartan Kid 2d 288181 FOR SALE

I am offering my splendid three-year-old herd bull, Spartan Kid 2d, for sale, and he is one of the best Hereford bulls in Iowa. Also eight choice young bulls for sale. Write or come and see me. Please mention The Homestead.

W. H. MAYNE, HARLAN, IOWA.

Polled Herefords

We offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low.

Warren Gammon & Son, Des Moines, Iowa. Originators of Polled Herefords.

15 HEREFORD BULLS

FOR SALE, from 12 to 30 months old, sired by Advance 129531 and McKinley 95219. Address Z. T. KINSELL - MT. AYR, IOWA.

7 HEREFORD BULLS

FROM 12 to 24 months old, sired for the most part by FAST FREIGHT. Good individuals, prices right. G. G. CLEMENTS, ORD, NEBRASKA.

Polled HEREFORDS

THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

J. W. WYANT, BLYTHEDALE, MISSOURI

POLLED HEREFORDS

OF both sexes. One herd bull and some horned cows bred to Success 4th, one of the best bulls of the breed. W. H. Campbell, Grand River, Ia.

REG. HEREFORD BULLS

10 HEAD two-year-old, blocky, well-marked, good colored bulls; guaranteed breeders. Strong individuals for the range. Also 12 head 1 year old, same breeding. Sired by Columbus 54th.

W. C. BRYANT, PRINCETON, ILLINOIS.

When writing mention this paper.

Public Sale of Choice Short-horns

FRIDAY, JUNE 3, 1910,

IN THE SALE PAVILION, MITCHELL, S. DAKOTA

THE
CONSIGNORS

N. A. LIND,
H. G. McMILLAN & SONS,
WALPOLE BROS.,
W. J. McLEAN,
R. S. MILLER,
H. M. CORWIN,
WM. TAYLOR.

THIS SALE WILL INCLUDE

20 Bulls--20 Cows

Of Good Quality

and Desirable Breeding

Being the produce of some of the best Scotch bulls now in use. The sale will be under the management of the American Short-horn Breeders' Association. For catalog, write

B. O. Cowan, Ass't Sec'y, 13 Dexter Park Ave., Chicago

Col. R. W. Barclay, Auctioneer.

Attention is called to the sale of J. G. Biller & Son, Crofton, Neb., June 2d.

HOLSTEIN-FRIESIAN CATTLE.

HOLSTEINS—BULLS, COWS AND HEIFERS Thirty-five bulls from 4 to 18 months old, at \$40 to \$100; 15 bull calves, 1 to 4 months, \$30 to \$50 each; 50 cows, 3 to 7 years, all milking or soon fresh; a lot of them in calf to some of the best-bred bulls in the East, and grand, good individuals, with producing qualities. Prices, \$150 to \$200; 30 heifers and heifer calves from 4 months to 2 years old, prices, \$60 to \$150. Come to the Holstein headquarters of the West and buy the best. Every animal tuberculin tested and sold under a positive guarantee. Address **ROCK BROOK FARM, Henry C. Glissman, Proprietor, Station B, Omaha, Nebraska.**

LARGEST HOLSTEIN AUCTION

EVER held, June 21, 22, 23, 1910. Over 300 head Peaches and Cream, bred direct from the world's champions. For information, watch The Homestead or write R. E. Haeger, Algonquin, Ill.

Buy a Good One

I can sell you a Holstein bull which will sire high producers. It's bred right in them. Let me tell you about it.

JOHN ERICKSON, WAUPACA, WIS.

HOLSTEIN BULLS

TWO to twelve months old; our own breeding. Dams give from eight to twelve thousand lbs. milk per year under ordinary farm conditions. Sire, Sir Netherland Cornucopia, whose two nearest dams averaged thirty lbs. butter and 6 nearest dams averaged twenty-five in seven days. Why buy picked up culls from a dealer when you can buy fashionable, high-class stock from a breeder? Let us send you our price list. We price them right.

WOODLAWN FARM, STERLING, ILL.

MONONA FARM HERD

OF pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

F. W. ALLEN, MADISON, WISCONSIN.

MAPLE LANE Holsteins

Eighty head in herd. We guarantee our stock. **T. J. BARMORE, MONROE, WISCONSIN.**

HIGH GRADE HOLSTEINS

COWS or heifers in any number. They show quality and breeding. **NO CHEAP STUFF.** State exactly what you want.

RIVERSIDE STOCK YARDS, Algonquin, Ill.

HOLSTEIN

Cows and heifers any age. Bulls fit for service.

W. R. GATES, Fort Atkinson, Wisconsin.

ELLIOTT'S Holstein-Friesians

YOUNG bulls from A. R. O. dams, for sale. They are our own breeding and will prove money makers for you. Buy the best and succeed.

JESSE R. ELLIOTT, WOODWARD, IOWA

Holsteins For Sale

CARLOAD grade heifers. Very even lot from 1 to 1 1/2 years old. Well bred with lots of quality. A choice lot. See picture this issue.

W. M. EVERSON & SONS, Lake Mills, Wis.

POLLED DURHAM CATTLE.

POLLED DURHAMS

FOUR choice two-year-old heifers, sired by Agate's Don Joe by Royal Duke. Good individuals. Splendid milking strain. Priced reasonable.

Walter Johnson, Dorchester, Nebraska.

Ottumwa W. B. Bonfield, Ottumwa, Iowa, breeder of Double Standard Polled Durhams. Bulls and heifers for sale. Fair prices.

Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. **Wm. Barrans, Lenox, Iowa.**

When writing to advertisers please mention this paper.

JERSEY CATTLE.

Registered Jerseys

GILT EDGE butter stock; young bulls ready for service and cows that make good. Up-to-date breeding, sound and desirable. For sale by E. S. & J. A. Buffum, LeRoy, Decatur County, Iowa.

KING SAPHO KING

THE BEST BY TEST. Do you want Heifers or Bulls? **J. Q. Emery & Son, Edgerton, Wisconsin.**

HIGH-CLASS JERSEYS

125 Reg. Jerseys to select from. Every one a money maker, splendid dairy type and fashionably bred. Write, or come and see this great herd. Females for sale, singly or in car lots; also few choice bulls. **H. C. Young, Lincoln, Neb.**

AYRSHIRE CATTLE.

Ayrshire Cattle

Some of the best young things we have ever offered. They are bred at the top.

FRED TSCHUDY, MONROE, WISCONSIN.

GUERNSEY CATTLE.

SUNNY VALLEY GUERNSEYS

Males and Females for Sale

WRITE TODAY.

W. M. JONES, WAUKESHA, WIS.

GUERNSEYS

FOR SALE—1 am overstocked and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 9386, a son of Stranford's Pinewood A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinelhurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale.

Ben Clark & Son, R. 1, Whitewater, Wis.

WAUKESHA GUERNSEYS

Bred for Production. Ninety Head in Herd.

A. W. and F. E. Fox, Waukesha, Wis.

Brook Hill Farm PURE-BRED GUERNSEYS

A FEW YOUNG BULLS FOR SALE. SEND FOR SALE LIST.

David W. Williams, Supt. GENESEE DEPOT, - - WISCONSIN.

HORSES AND JACKS.

I STILL HAVE TWENTY-FOUR BIG, HEAVY PERCHERON STALLIONS and BELGIAN STALLIONS

WHICH I am very anxious to sell. Am offering the most tempting prices for big stallions that have ever been offered. Have had nice trade in heavy stallions this season, but still have on hand a larger number than I wish to carry over, and those who need big, heavy, first-class, sound stallions, cannot afford to miss seeing mine. These stallions ought to be sold; they should not be standing idle this season.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler Breeder and Importers of PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

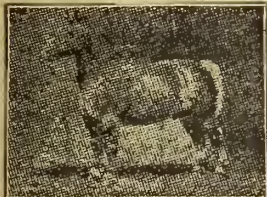
PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.**



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 18th. Ernest L. Humbert & Son, Corning, Ia.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14½ to 16 hands.

Everything guaranteed as represented. Est. 1892.
**J. C. HUCKSTEP, Prop.,
EOLIA, MO. Pike Co.**



MARES FOR SALE

The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an international winner, and one imported Hackney mare, both with foal. Also one first-class Short-horn bull. Address

**DIVISION OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.**

Percheron Stallions Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. Will F. Hooker, Northboro, Page Co., Ia.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.

GALLOWAY CATTLE.

ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otoc and other cows equally well known. Write your wants; we can suit you. A. G. Abney, North Loup, Valley Co., Neb.

GALLOWAYS

HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address
John C. Gahring, R. 1, Box 29, Marengo, Ia.

Clydesdale Headquarters

McLAY BROS., JANESVILLE, WIS.
NEW IMPORTATION—18 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine International than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a" McLAY Clydesdale stand for a good Clydesdale? There's a reason; come and see; wire or write.

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I have six stallions that I imported myself, two to five years old, that I will sell at a very low figure to close them out. If you would buy a stallion at any price write me.

W. J. BUTLER, R. 29, OTTAWA, ILL.

PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

**FRANK L. STREAM,
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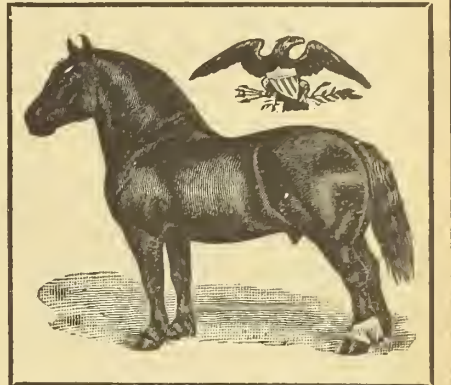
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GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

**Percherons,
Belgians,
Shires,
German and French
Coachers,
Hackneys.**



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

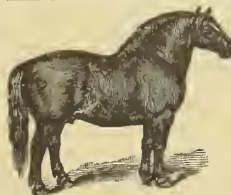
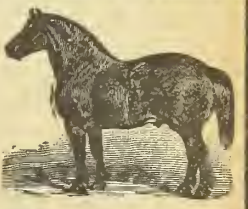
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DRAFT horse buyers will find at our barns a lot of valuable stallions—Belgians, Percherons and Shires of right age for immediate service. A few good Coachers. Come and see how cheap we sell.

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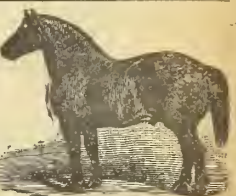
BELGIAN EMPORIUM of AMERICA

STALLIONS all sold. Can spare a few more mares, your choice from thirty. I have sold over one hundred head this past season, and will return from Belgium, Sept. 1st, with another supply to refill all my barns.

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We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



AT LOW PRICES

**BELGIANS
PERCHERONS
GERMAN COACHERS
A. R. IVES, DELAVAN, WISCONSIN.**

MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

**RENO & MORRISON,
BATAVIA, IOWA.**



WE HAVE EIGHTY-FIVE PERCHERON STALLIONS and MARES FOR SALE AT KEOTA.

50 Stallions—35 Mares

We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold, come and see Keiser's Percherons at Keota.

C. O. KEISER, Keota, Ia.

Shetland Ponies for Sale

I AM offering eight head of Shetland ponies for sale at from \$65 to \$125. Also one 5-year-old black Shetland stallion and one 2-year-old Percheron stallion. Address H. W. Littleton, Harlan, Iowa.

WILL YOU REPRESENT THE MORA STRENUOUSLY RELIABLE AUTO IN YOUR VICINITY?

In the East—where the MORA is so well and favorably known—there is hardly a bit of undeveloped territory. But in certain portions of the West—we want good influential men to represent the MORA "LIGHT FOUR"—and have a most advantageous proposition to offer. Write today—before your neighbor, who knows the merits of the MORA—gets in ahead of you. We will immediately mail you full particulars.

The MORA "Light Four"---Sells for \$2,500. It Has Every Quality Possessed by Cars Selling at \$4,000 and \$5,000

This fact has been demonstrated and proved to a certainty in a hundred and one different ways and by any number of strenuous methods. The MORA "Sealed Bonnet" car has an international reputation. With the hood over the engine scaled—so that none of the working parts were accessible—it covered nine thousand miles without a single adjustment of any kind—over roads that were nothing, if not bad. Then it was overhauled in the Mora factory at Newark, New York—and is now and has been in the proud possession of a Long Island motorist—who says it runs better than when it first came to him, two years ago.

MORA Has Mechanically Right Features Not Found in Other Cars!

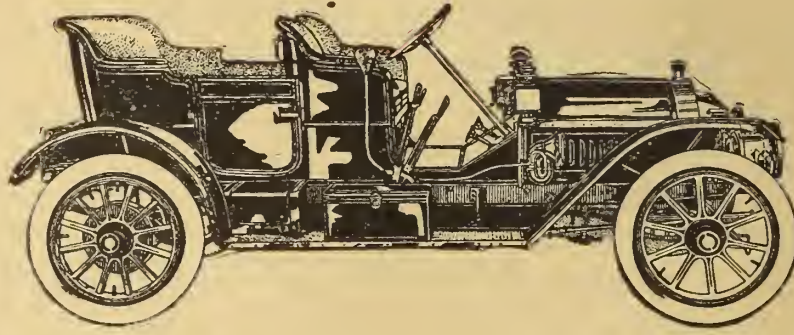
The MORA "LIGHT FOUR" is built in its entirety in the MORA factory. It is MORA design through and through. Every detail is a MORA detail. The power plant is a unit unto itself—every part working in exact harmony with every other part. The result is a well-nigh perfect motor—capable of any performance over any road—rough or smooth.

The base of the MORA power plant is aluminum—running from the radiator in front, back to the end of the transmission. So that the under part of the car is completely enclosed—free at all times from dust and dirt—no noisy under-pan to rattle or work loose. This base being a natural part of the motor and crank case—an essential part, in fact—and being of aluminum, the weight is minimized. So that the MORA is made all the more Strenuously Reliable—because it is light and compact.

More Power Than You Can Use--as Well as All Necessary Speed!

MORA cylinders are 4 1-2-inch bore by 5 1-8-inch stroke—constructed in such a way as to develop a bit more than FORTY HORSEPOWER. So that a MORA can be throttled down to run as slow as five miles an hour on high-speed, and will quickly pass the fifty-mile mark, if you wish it to. There isn't a hill or grade too great for it to negotiate and nearly always without the shifting of gears.

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In a country where roads are not always of the best, the MORA "LIGHT FOUR" actually shines. Its rear springs are of the platform type—that makes for absolutely easy riding over any road. We have never known a MORA driver to complain of rough traveling. Over Ninety Per Cent of the Drivers of the MORA in one city, have testified to the ease of operation and the Riding Qualities. We'll send you a list of them—if you write for it.

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We are going to make the MORA known far and wide—in every section of the country. We are not going to build ten or twenty thousand cars a year to do it, either—for the MORA policy is one

that stops building MORA cars when a single point on a single one has to be slighted—in order to produce "quantity."

We want every MORA owner a satisfied owner—and that they ARE satisfied, is best attested by the fact that you never see a MORA advertised in the "second-hand" columns.

Mora Coupon
Mora Co.
Newark, N. Y.

Without any obligation on my part, other than to give your proposition consideration please mail me your catalog and full particulars of what you have to offer me.

R. O. MILLER'S PUBLIC SALE
IMPORTED AND HOME-BRED

CLYDESDALE
MARES AND STALLIONS

CHARITON, IOWA,
WEDNESDAY, JUNE 1ST

TWENTY MARES
FOUR YEARLING STALLIONS

THERE will be a splendid lot of young mares in my sale; yearlings and 2-year-olds; two 6-year-old mares, one of which is imported. These mares and stallions were selected for me by Robert Miller in Canada, and are a useful lot in every way. Write for my catalog and come to my sale. Please mention Iowa Homestead when writing for catalog. Address

R. O. Miller, Lucas, Iowa.

Col. Dave McManus, Auctioneer.

BELLOWS BROS.

ANNUAL SALE OF GOOD
SHORT-HORNS

TUESDAY, JUNE 14TH

AT FARM ADJOINING TOWN

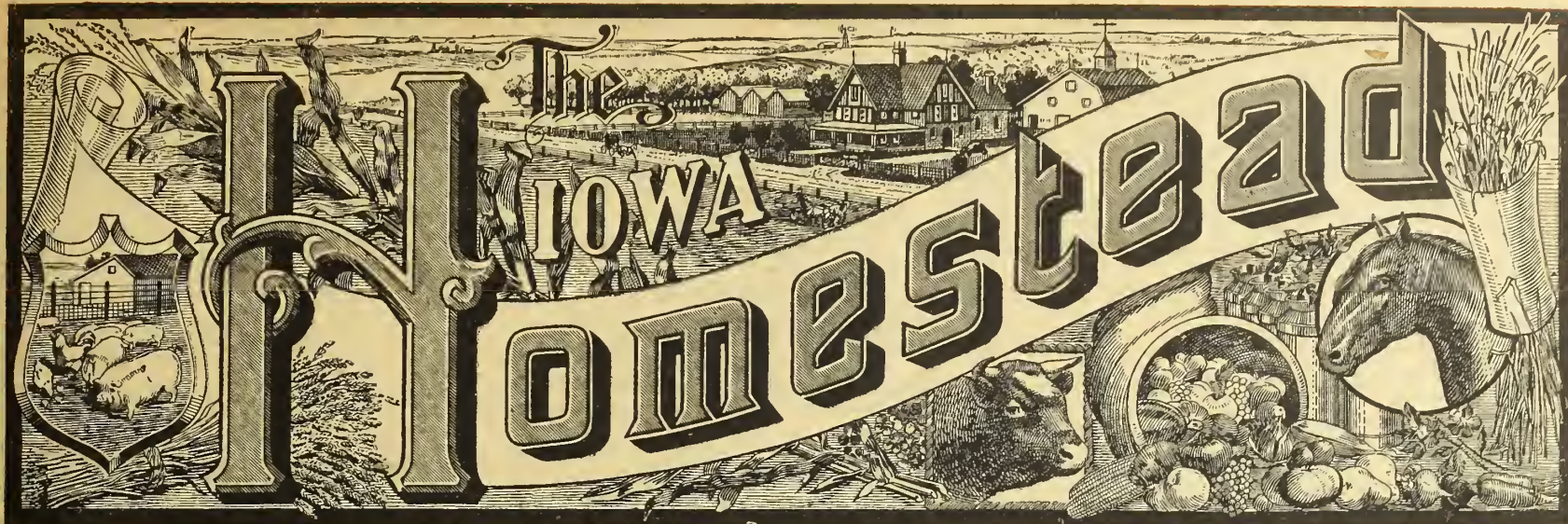
Ten High-Class Bulls
Forty Females

INCLUDING more of the blood of the CHAMPION CHOICE GOODS, through his two great sons, GOOD CHOICE and BEST OF GOODS, than has ever before been offered in one sale. Bulls, cows and heifers of show-yard character are included together with a grand lot of breeding cattle of the most reliable stamp.

IF INTERESTED IN GOOD SHORT-HORNS
WRITE FOR OUR ILLUSTRATED CATALOG

Bellows Bros., Maryville, Mo.

Cols. F. M. Woods, T. C. Callahan and R. P. Hosmer, Aucts.



VOL. LV. NO. 14

DES MOINES, IOWA, APRIL 7, 1910

WHOLE NO. 2739



ENOUGH FOR ONE DAY

LUMBER DIRECT FROM OUR FOREST TO YOUR FARM-

That's a Money Making, Money Saving Proposition for you.

You get lumber that is up to grade, that has not been picked over and re-sorted a dozen times. You cut out all jobbers, dealers and catalog-house profits and get your building material at lowest wholesale price.

We are the largest manufacturers and dealers in lumber, mill work, shingles, roofing and other building materials in the Middle West. We have been in business right here in Dubuque for 30 years-- during that time we have saved thousands and thousands of dollars for our customers and have never failed to satisfy them in the matter of grades. Don't take our word for it-- we will give you a long list of regular customers that you can write to.

If you want to make a saving of from 10% to 25% on building material, and get a better grade besides, order from us. Come to Dubuque and see for yourself how much better our lumber runs, grade for grade, than that offered you at your local yard. We will pay your round trip fare and entertain you while you are here. The trip won't cost you a cent if you order as much as one car-load. We have only one price, whether you buy ten feet or ten million feet.

Our profit is so small that we can't afford to make this offer of a free trip on small orders, but we can save you money on small quantities, and we guarantee that you will be satisfied with our grading when you order by mail. If you live within 300 miles of Dubuque, the saving you will make by ordering of us will more than pay the freight. You'll save enough on a \$10 lumber bill to be worth while and you will profit still further by securing better material.

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will give you perfect satisfaction. It is the result of forty years' experience in the manufacture of ready roofing. It is made of the very best material. The body is pure wool felt. It contains no tar or other substance that will crack, run or peel. It is easily laid on steep or flat roofs, and over old shingles. It is water, wind and spark proof. It does not color or taint the rain water. It is absolutely guaranteed.

Can you beat these prices?

- 1 ply, 35 lbs. to the square, only \$1.15 per square. Guaranteed for five years.
- 2 ply, 45 lbs. to the square, only \$1.40 per square. Guaranteed for ten years.
- 3 ply, 55 lbs. to the square, only \$1.70 per square. Guaranteed for fifteen years.

Cement and large headed nails are packed in the center of each roll. You ought to see this roofing.

We will send you samples. Now don't hesitate to send us small orders as well as large orders. It's worth your while.

Write us today for special prices.

PETER J. SEIPPEL LUMBER CO.

Dept. 10

Dubuque, Iowa.

The Wagon That Saves Farm Labor

Electric Handy Wagons

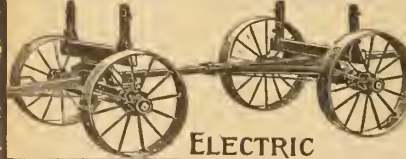
We want to send you this free book. The modern farm wagon is the

Electric Handy Wagon

with its all-steel wheels that last a lifetime. It gives you the low lift instead of the high lift and saves your strength thousands of times a year. You can have wheels any height--20 to 60 inches--and any width of tire. The Electric Handy Wagon is a wagon for all work.

Write for the Free Book and see how the Electric Handy Wagon is made. It explains how cheaply you can fit your old running gears with Electric Steel Wheels and turn them into a handy wagon. Address to-day.

ELECTRIC WHEEL CO., Box 58 Quincy, Ill.



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Cement STOCK TANKS

Send for our FREE BULLETIN on how A. L. Saylor made a Stock Tank, Feeding Floor and Hog Dipping Tank on his Kansas farm with

Sunflower Portland Cement A dependable cement of great strength and uniformity. Makes an artificial stone superior to anything turned out in Nature's laboratory. Write for Bulletins

United Kansas Portland Cement Co. 827 Commerce Building, Kansas City, Mo.

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It costs about ONE CENT AN HOUR to pump water with this engine. If your time is worth more than a cent an hour you cannot afford to pump by hand: It will raise 32 barrels of water per hour to an elevation of 25 feet, 10 barrels to an elevation of 100 feet, or proportionate quantities to other heights.

This engine can be connected to "any old pump" in 30 minutes. After you have watched it pump water for five minutes you will wonder how you ever got along without it. The longer you have it, the better you will like it. It is right on the job all the time. A turn of the fly-wheel and it is off. A child can operate it. The ladies often start it to pump a pail of water. They rest while it works.

It is shipped complete with walking beam, supporting frame and everything ready to set it up in complete working order, except three stakes for driving in ground. Next to a windmill, this is the most economical outfit for pumping. We are selling many thousands of them every year, but our sale of Aeromotors is still increasing.

A PULLEY for running cream separator, churn, washing machine, ice cream freezer, grindstone or other light machinery is furnished with this engine for \$1.50 extra.

If you need an engine for pumping large quantities of water for irrigating, watering large herds of stock, or for other purposes, our Heavy Back-Geared Pumping Engine for \$100.00 is just the thing you have been looking for. It will raise 125 barrels of water an hour to an elevation of 50 feet, or proportionate quantities to any height.

Our \$15.00 2 H. P. General Purpose Power Engine with Fluted Cooler is the best thing going. Larger sizes at proportionately low prices.

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Powerful, Silent Engine

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THE BLACK-CROW

Biggest for Price--and in Value. Powerful, Silent

Engine. Most simple, durable, economical car of 1910. Anybody

\$1,000 to \$1,750 can drive it with complete control and

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to \$1,750. One to suit you exactly. Handsome design--a leader in any

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BLACK MANUFACTURING CO., 215-217-219 W. Ohio St., CHICAGO, ILL.



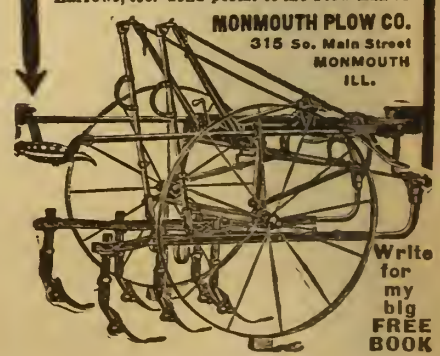
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I want to prove to you at my risk that this Corn Plow does better work than any other built. I'll send it for 30 days' test, and we pay the freight. The

MONMOUTH CULTIVATORS

are the most perfectly balanced--Worm Gear holds Frame absolutely true; Drop Arch makes Shovels run steady; Long Gangs insure easy guiding; Soft-Center Shovels scour in any soil. Send your name so I can tell you all the features--and our low direct-from-factory price. Means a big saving to you. I'll quote you on Plows and Harrows, too. Send postal to the Plow Man of

MONMOUTH PLOW CO. 315 So. Main Street MONMOUTH ILL.



Write for my big FREE BOOK

Simple Reliable Powerful



Getting the most engine for your money does not mean buying the cheapest--but an engine that will give reliable results year in, year out--speed, steady and uniform absolute interchangeability of parts--actual power, equal rating. Every requirement of the man who wants a simple, reliable engine is met by the

Weber Gas or Gasoline Engine

Sold Under Our Absolute Guarantee

Will lighten the labor of pumping, grinding, shelling and all kinds of farm work.

Write today for our new handsomely illustrated catalog fully describing the Weber Engine.

Sheffield Gas Power Co., 103 Winchester Pl., Kansas City, Mo.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, APRIL 7, 1910.

SENSIBLE CORN CULTURE

By W. F. Stiles

THE development and maturing of the corn crop depends primarily upon the season and the condition of the soil. Over the first, man has no control; the second, however, he can affect to a considerable degree. Corn being a semi-tropical plant, requires a comparatively warm soil, which is capable of absorbing water to a certain extent. Another requirement of the soil, to insure the proper development of the corn crop, is that it be well supplied with the proper elements of plant food in an available form.

Corn, like all other farm crops, requires a large amount of water during its growth to develop and mature it properly. The farmer has no control over the amount of water which falls on his land, but he can, if he uses proper methods, control, to a marked extent, the distribution and movements of the water in the soil.

Now, as corn requires a comparatively warm soil for germination and growth and an abundance of water to mature it properly, our work as farmers in growing this, the greatest of all crops, is to handle our soils so as to obtain as near as possible these results. One way which I believe will aid in increasing the temperature of the soil is to have a certain amount of vegetable matter incorporated in it which, during its process of decay, will warm it to quite an extent. The second is, that since dry soil warms much faster than wet, it aids greatly in increasing its temperature to remove some of the water content. This is especially true of the surface portion where the seed is to germinate.

As an aid in securing the results which have been mentioned, I have adopted the following method of growing the crop: Grown in relation with other crops, I usually practice a three-year rotation, corn, small grain and clover. The farm manure is usually drawn out during the winter and spread on the fields which produced clover the previous year and are to be used for the corn crop. My practice has been to plow in the spring, yet I believe that in many cases it is advisable to plow in the fall, and, if the land has not been previously manured, to top-dress it with a coat of fine manure during the winter or spring.

Heavy clay soils should not be plowed when they are too wet in the spring. Do not be in too great a rush with the corn plant. Remember it requires a warm soil for its growth. In preparing a field for corn it is usually best to follow the plow with the spike-tooth harrow, as soon as the surface is sufficiently dry to crumble nicely. Always harrow the first time the same way it is plowed. I prefer to plant in checks, for husking corn, and in drills for the silo or fodder. The surface should be thoroughly pulverized and mellow before the seed is planted and sufficiently warm to insure rapid germination. A split or divided wheel on the planter gives better results than a solid rim. Unless prevented by rains the field should be thoroughly harrowed just before the corn comes up, thus killing the weeds and breaking the crust where it has formed at the surface. After the corn has come through, do not harrow for a few days; the length of time to wait will depend upon the growth of the plants and condition of the soil. Some soils never get in condition. In most cases it is advisable to harrow when the plants are two or three inches high. I prefer to harrow just after noon, as at that time the plants

will bend and not break, particularly if a straight, fine-tooth harrow is used.

The rule to be guided by in cultivating in most cases is to keep the surface loose and mellow in order that it may act as a mulch to prevent the water in the soil below from coming to the surface and being evaporated. The plants usually require this water later in their growth, and by proper cultivation of the surface it can be held in store for their future need.

Farmers often cultivate to eradicate weeds, and certainly this is a good practice, as it requires a good soil to produce a good corn crop and a crop of weeds at the same time. Yet the destruction of the weed should not be the primary cause for cultivation. The conservation of the soil moisture should be the first consideration in the cultivation of the crop, and the killing of the weeds the second. To keep a surface mulch on the fields during the greater part of the season is generally one of the secrets of successful corn growing. This mulch need not be deep, in most cases preferably not, but it is necessary to see that when it is destroyed in any way, it is again renewed. One of the ways by which it is most easily destroyed, is by rain. Water falling upon the surface soil compacts it and, except that the farmer loosen it in some way, the capillaries in the soil below become united with those at the surface and in a dry time water from below is pumped to the surface at a rapid rate and lost.

A cultivator with many small shovels is preferable to one with large ones. Never is it wise to cultivate deep, close to the corn, and during the last half of the season all the cultivation should be shallow. How late in the season it is advisable to continue the cultivation will depend upon the season itself. The rule should be, especially in a dry season, to keep a dirt mulch at the surface.

When to harvest will depend to some extent upon the use which the farmer will make of the crop. If the grain is the chief consideration, then it should be allowed to ripen sufficiently, so that there will be no danger of loss in the crib; but as the stalks contain over 30 per cent of the feeding value of the crop, it should not be left standing in the field until they become worthless. When it is intended for the silo, it should be harvested when the grain is just beginning to dent, and the lower part of the stalk is turning white. Corn in-

tended for fodder should, as a rule, be planted later than when intended for grain and then harvested after the warm rainy weather, which usually occurs at corn-cutting time. Fodder cut at this time usually comes out of the shock in a much brighter and more palatable condition.

KEEPING THE LAND BUSY.

The Pacific Northwest has long prided itself on its one-acre and five-acre ranches, and has frequently published the reports of the profits made therefrom, as though it were impossible to duplicate this experience in any part of the country. Perhaps the grain belt may have been inspired to publicity by this action of the Northwest, but the fact remains, nevertheless, that in recent months the daily papers have been paying more attention to intensive farming and small farm homes in the grain belt, than ever before. A recent issue of a St. Louis paper mentions no less than a half dozen one-acre and five-acre farms which are being successfully and profitably operated in the vicinity of that city. Two women who operate a little farm in northern Illinois are reported as having made this showing for last season:

Five acres of onions, net.....	\$ 700
Eggs from 300 hens.....	600
Seventy-five bushels of cherries.....	150
One acre cucumbers, net profit.....	125
Value of cow, garden, poultry, pork, etc., to the family	150

Total\$1,725

The five acres of onions brought in market, upwards of \$1,000. Still another example is given in the following table:

525 pounds of honey.....	\$ 78
Butter from eight cows.....	300
Cherries from 40 trees.....	65
130 pairs of squabs.....	65
Eggs and poultry	175
Twelve hogs, dressed	220

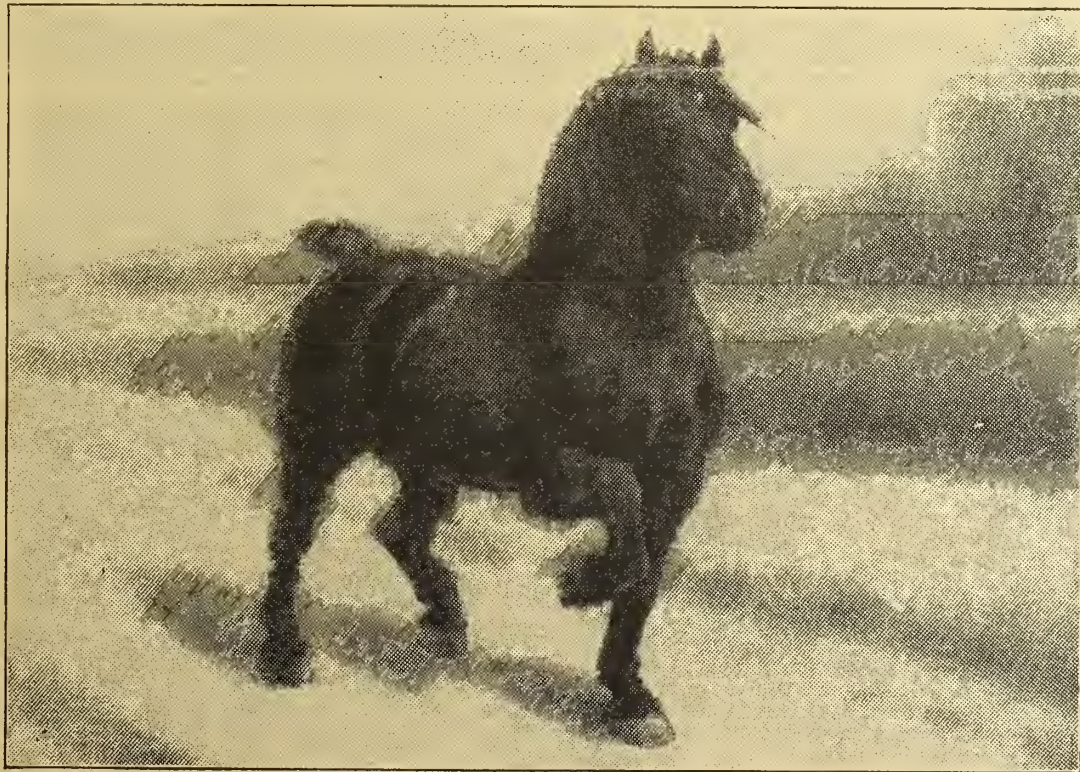
Total\$903

In addition to the above items, in both cases much garden truck and some berries were turned in for store supplies so that the family had its living in addition to the profits on these small and nicely situated tracts. The prices obtained in nearly all the transactions were about the same as those that prevailed in most of the retail stores of the middle West.

Another practical illustration of what can be accomplished on a few acres is given by the

St. Louis paper as follows: 22 tons of alfalfa from six acres, \$264; 35 hogs, \$395; 240 pairs of squabs, \$160; 1 acre of strawberries, \$200; 1 acre cucumbers, \$150; eggs and poultry, \$240. Total, \$1,409.

In addition to the above, the family had the larger part of its living expenses from the little farm. Less than \$200 was paid out for wages. The increase in stock offset this. One of the most successful poultry raisers in Illinois is reported in this same article as having only five acres of land. He keeps from 600 to 2,000 chickens and raises wheat and corn enough for them on three acres. He buys table scraps from a hotel, paying merely a nominal price. While it may not be profitable to feed chickens and hogs on corn worth sixty cents per bushel, by providing vegetables and alfalfa and rape pasture the burden of feeding has become less serious



A TRUE SPECIMEN OF PERCHERON CHARACTER.

The above engraving is of a representative of the true type of Percheron stallion, as found in the barns of the importing firm of Messrs. Watson, Woods Bros. & Kelly Co., at Lincoln, Neb., and advertised on page 53 of this paper.

(Concluded on page 6.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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GETTING A FARM START.

Dean Mumford, of the Missouri College of Agriculture, delivered an address recently to the high school pupils of Kansas City, pointing out to the town boys and girls the desirability of living on the farm. That his efforts were well directed is evidenced by the fact that at the close of his talk one young man introduced himself and remarked: "I want to tell you that I am going back as soon as I can. I am sorry I ever left the farm." There were doubtless many others in whose breasts the seed of longing for the old farm home was sown and who will quit city pavements for country lanes before many months have passed.

The vital question that came up for discussion by Dean Mumford in connection with the return to the farm of those who have strayed away to the city, is whether they shall own or rent the land. Dean Mumford advised them to rent, saying, "It is cheaper to rent land in Missouri than to own it." He then turned his attention to the question of whether it is better either to buy or to rent highly developed land at a big price or to buy or rent land which needs development in order to bring it up to a good state of fertility and which can be secured much cheaper. In this connection he is quoted as saying:

It may well be asked which is better business policy, to buy poorer land and by intelligent methods increase its fertility, or buy land of great natural fertility at a higher price. It must be said that there exists an unusual opportunity for skilful and intelligent cultivators of the soil to take advantage of the discoveries of the experiment stations and apply them to the upbuilding of impoverished soils. Enough already is known to double the yield now obtained from the poorer soils of the middle West.

Important as is the soil, there are other factors equally as important in bringing about productive farming and it was these which Dean Mumford doubtless had in mind. The experts who have been traveling over Iowa the past few weeks preaching the gospel of tested seed corn have reiterated that testing the seed, grading it and planting three uniform-sized kernels to the hill will result in increasing the average acre yield by from ten to twenty bushels. Discoveries are constantly being made and published to the world which make more effective the labor of yesterday and open vast vistas of possibilities to the farmer of to-morrow.

It is Dean Mumford's idea (and in this he is without doubt correct) that so long as a young man has his strength and the ambition to work, he can far better begin at the bottom and put knowledge, time and labor into increasing the value of his land rather than to put the same factors into simply keeping the price of better land up to what it was when he bought or rented. At the same time it must be conceded that the profits from cultivating land which will produce sixty bushels of corn to the acre will be many times greater than the profits resulting from cultivating corn that will produce only thirty bushels to the acre. The fixed charges of production, plowing the land, tilling the ground, planting the seed and cultivating the crop will be essentially the same on the richer as on the poorer

land. On the other hand, however, it must not be overlooked that the rich land of today was, in many cases, the so-called poor land of yesterday, made rich by the hard work, common sense and applied science of the farmers who are envied today. The possibilities of farming today are greater than they ever were and the man with ambition and health can do no better than start in at the bottom and work his way to the top.

NO "BEST" FOODS FOR SOWS.

A Wisconsin subscriber sends the following communication:

I would like to know what is the best food to give sows before and after farrowing. What would you advise feeding in connection with corn? What is the best feed for young pigs?

It is impossible to lay down hard and fast rules governing the feeding of sows, and have these rules fit all cases. So much depends upon the nature or character of the available foodstuffs that the advice adapted to one man is not necessarily adapted to another.

Take, for instance, a farmer who grows considerable small grain, such

as mill prices, that is, without having to pay some high freight rates, very good results will be obtained by feeding the mill feeds alone. After all, then it will be seen that the matter is left to the judgment of the individual who does the feeding.

ROOSEVELT'S RETURN.

The remarkable ovation which has been tendered to Theodore Roosevelt all along the line in Egypt (partaking at times of all the features of a triumphant return of an empire conqueror) is a tribute to American honesty. For many years the foreigner has looked on every American as a Yankee whose reputation for sharp dealing, approaching almost to trickery, has not been of the best. The American has taken the lead of all nationalities in the commercialization of the world and, largely due to a spirit of envy, other people have come to look on him as unscrupulous in his trade dealings. The great bulk of foreigners have undoubtedly felt that every American is a Connecticut Yankee to the extent of selling wooden nutmegs. When William McKinley and Theo-

esty is the best policy." Every message which Roosevelt sent to congress and every public utterance of his is simply a repetition, in varying phraseology, of this doctrine.

All this has not been without its effect on foreigners as well as on American citizens and as Roosevelt came to stand for honesty and the square deal at home he came to raise the standard in which Americans were held abroad. It is for this reason, rather than because he was elected by the largest majority which any presidential candidate ever had or because he made a determined fight for conservation or for any platform pledge, that Roosevelt is being given such a royal reception abroad. He is looked on as the deliverer of America from the hands of those who think only of personal gain, as the Moses who led the Americans out of the land of commercialism into the land of personal, business and political uprightness. It is a tribute to Roosevelt himself, but more than that it is a tribute to the innate honesty of the man and to his ability to make a nation pause in its mad rush, lured by the lust of lucre.

BUNGLING ROAD WORK.

The following communication has been received from a subscriber of Polk county, Iowa:

I have been farming in the Hawkeye state for more than forty years and I expect to stay at the business for forty more if health and weather permit. During all that time I have been a close observer of the progress that has been made in road making, and I believe I have never seen the time when I felt so discouraged as I do this spring. I have no special complaint to offer on the road near my own farm, so that you will see I have no personal bitterness over the subject, but I want to relate just what has been going on in another part of my district. For several years the contract for half the roads in my township have been let to one man and he had some sort of consistency in his methods. As a result of his work a few of the roads have been graded up in fairly good shape. A change has been made, however, and the roads are now placed under a different superintendent. Last week, while driving in that particular part of the township, I noticed the new superintendent working with a big eight-horse grader and he was engaged in temporarily spoiling the roads that were already quite well graded up and fairly well rounded. To my way of thinking, the side ditches were plenty deep enough, and yet he was pulling the sods from the sides to the center with his big grader. He was even doing worse than that, because for a strip a quarter of a mile long the road had been graveled and, sure enough, he pulled the sods directly onto the gravel. My claim is that the work he was doing was absolutely a waste of time and money, because if it were necessary to make the sides of the grade a little smoother, this could be done with a drag having a cutting edge. The idea of spending the time of three men and eight horses in doing work that could be much more effectively done by one team and a King drag is what makes the average man disgusted with the present system.

The estimate has been made that two-fifths of the expenditure on the roads of some states of the corn belt is an absolute waste and, in my opinion, that is not an extravagant statement. There are plenty of men who can't see the matter in this light. They think that our roads are not good because we do not have enough money to improve them with, but as I see it, we have plenty of money if it could only be spent under proper supervision. As this example shows, under the present plan the good work of one superintendent is simply annulled by his successor. Indeed, many of these superintendents think that the only way they can make a showing is to tear down or destroy the work of their predecessor. I have no solution for the matter, but I simply say that the system is not right and we should have some plan by which to work.

There is no question in our mind but what thousands of our readers could point out similar examples, and yet with it all it seems to be an exceedingly difficult matter to change road-making methods. Of course, some states have advanced by making the road taxes payable in cash, but even where that has been done the best results have not been forthcoming during the first few years following the change. In a few instances it would seem as if there were concerted action to demonstrate that the new system is a farce, but in spite of that the cash tax has come to stay wherever it has been established. What we need now is some kind of central supervision of road-making operations whereby a county official, presumably one trained in the principles of engineering, will be held responsible for the general character of road-making operations. It will be up to such an

April Creed

I believe in the fragrance of the fresh soil. I believe in the garden and orchard and field. I believe in the gamboling lambs frolicking on the fresh grass in the warm spring sunshine, and in little pigs sleeping lined up in neat cords on the sunny side of the barn. I believe in the blood-root and trillium, in the opening bud, the peeping sprout, in the fragrant blossoms and timid leaves. I believe in treating the seed oats for smut. I believe in grain drills and in the early sowing of the grains. I believe in disking the one-year-old stalk ground, and in long, straight furrows well turned. I believe in a fine seed bed for the King of Cereals. I believe in sowing rape in the unseeded grain fields against the dearth of fall pastures and in a patch of it for the hogs through summer. I believe in dipping the sheep and the pigs. I believe in spring. ::

as wheat, oats and barley. In that case it is very doubtful if it will be necessary for him to purchase any supplementary feed like oil meal, shorts or tankage. This is especially true if he has a grinder and can grind his grains before feeding. Who would ask for a better slop mixture for little pigs or for old sows than one composed of equal parts of oats, barley and wheat? At prevailing prices this ration would possibly be as cheap as any that could be compounded. On the other hand, where men are making a specialty of corn and have plenty of it on hand, the most practical thing to do is to purchase such supplementary foods as oil meal or tankage, and use these in connection with corn. For little pigs a ration composed of ground corn and oil meal in the proportion of eight of the former to one of the latter, will give very satisfactory results, or tankage and corn in proportion of one of the former to ten or twelve of the latter.

Then again, we can imagine cases where mill feed makes the most satisfactory ration, considering all things. Where one can buy shorts or middlings

dore Roosevelt came into the center of the political stage, they immediately impressed the entire world with the fact that America stands for a square deal in business as well as in politics. The stand of President McKinley in the Cuban matter was the international surprise and wonder of the decade. The fact that America had engaged in a serious and costly war to wrest a province from another nation, and then did not intend to hold that province as its own, startled the land-grabbing nations, which had never allowed justice to interfere with conquest. When McKinley made it plain, beyond any doubt, that America had been fighting for Cuba Libre and that he would not for a minute think of violating in any syllable the pledge made to Cuba and the world, the American reputation for honor and honesty began to pick up. Roosevelt, succeeding McKinley, carried out the McKinley policy in regard to Cuba, and in every word and act showed that he stood for a square deal, both at home and abroad. In the last analysis the Roosevelt policies are simply variations of the old doctrine "Hon-

officer to prevent one man from tearing down the work of his predecessor, and to see to it that the labor that is put on the roads is performed in such a way as to give the road the greatest possible benefit from every dollar spent.

WHY NOT SOW RAPE?

Pastures of the central West are as a rule picked a little too bare every year. In other words, they are overstocked. Why this should be the case is easy to understand, because the profits from a pasture are indirect and the average man is anxious to get the greatest possible proportion of his land in what might be called cash crops. Because of this situation there is an increasing need for enlarging the area devoted to the production of rape.

One subscriber who has been growing rape every year for a period of fifteen years, has this to say concerning its value:

I hold the opinion that you can get more hog food from an acre of rape than you can from any other crop that grows out of the ground. If it is sensibly pastured off I believe that it grows so rapidly under ordinary conditions that it would not be out of the way to say that it produces fifteen or twenty tons per acre during the growing season. It makes a splendid pasture for hogs and I believe even at the present price of grain, that it is possible to bring hogs to 200 pounds in weight at a cost not to exceed four cents per pound, if both rape and grass are sensibly used. It is a splendid feed for young cattle and even for cows if the calves suck. Of course, you cannot use rape where the milk is intended for family use, because it gives it a disagreeable flavor. I do not believe that your paper can in any other way do so much good as to encourage every stock raiser in the central West to sow a few acres of rape.

This is a strong testimony, but we do not believe that it overstates the matter in the least. Furthermore, rape is one of the easiest crops of the whole list to grow, because all you need is to prepare a good fine seed bed and sow at the rate of four or five pounds per acre. It may be seeded any time from the 1st of April up to the middle of July.

Ordinarily rape should not be pastured for a period of six or seven weeks after sowing, for the reason that considerable leaf growth is necessary in order to insure a strong root growth. After that the crop will stand pasturing at the rate of ten or fifteen hogs per acre, and it will in all probability hold out through the entire summer and fall. Although rape is not as rich as clover in flesh-forming constituents, it nevertheless makes a most excellent food to use in connection with corn, for the purpose of pork production.

Where rape is used for pasturing cattle, a little care must be exercised in the beginning because it is apt to cause bloat, but after cattle become thoroughly used to it the danger of bloating is very, very slight.

OATS OR CORN FOR WORK HORSES.

The Ohio Experiment Station has done some work to ascertain the relative or comparative value of oats and corn when fed to work horses. Six horses were used in the experiment, three being fed on corn and three on oats. The experiment was started in the spring of 1907, and the horses were kept at ordinary farm work during the year. During the first year of the experiment the horses fed corn ate seventy-one bushels each, while on the basis of oats weighing thirty-two pounds per bushel, the horses fed oats ate 155 bushels each. With corn at forty cents and oats at thirty cents per bushel, it cost on the basis of the grain, \$19 more per head to feed the horses on oats than it did on corn.

The conclusions at the end of the first year's experiment are given as follows:

The corn-fed horses endured hard work during hot weather as well as did the oats-fed horses.

The use of corn to the exclusion of other grain for a period of forty-eight weeks was not detrimental to the health of work horses.

The use of corn for work horses did not induce laziness and lack of endurance. Neither did the use of oats induce increased spirit and endurance.

When mixed (clover and timothy) hay was fed to mature geldings at general farm work, ear corn was practically as efficient, pound for pound, as oats.

On the basis of the results of this experiment and statistical records of

farm values of grains, corn has, since 1866, been cheaper than oats as a grain feed for work horses.

The drop in weight of the corn-fed horses, coincident with the beginning of the use of shelled corn, indicates that ear corn is to be preferred above shelled corn for work horses.

Farm animals should be fed according to their needs. Their needs depend, of course, upon the product that they yield. Work horses are kept for applying energy and should be supplied with feeds that will furnish the required energy at the least possible cost, all things considered.

When the weights of the horses for the year previous to the experiment are compared with the weights secured during the experiment, it is seen that the exclusive use of either corn or oats has not had any bad effect upon the horses. There is no positive proof, however, that a mixed ration would not be more efficient than one made up exclusively of corn or of oats. This experiment does show, nevertheless, that corn is a valuable feed for work horses and should be given a large place in their rations, whenever market conditions warrant its use.

It is obvious that feeds for work horses should be palatable, efficient and economical. As far as palatableness is concerned, corn seems, in the experience of this station, to have a slight advantage over oats, although this will depend to a considerable extent upon the individual appetite. The results obtained thus far in the experiment reported in this bulletin indicate that corn is an efficient feed for work horses. The bulk of an amount of ear corn equal in feeding value to the usual amount of oats is small—so small that a casual observation might lead one to believe that too little corn was being used. As regards economy, ear corn is usually cheaper per pound than oats, while this experiment indicates that ear corn and oats are worth approximately the same per pound for feeding under the conditions stated previously.

We believe that the results here given will be a surprise to many horsemen, because while in the central West an enormous amount of corn is fed to farm work horses, it is a fact that a great many farmers plan to feed some oats during the busy season. We very much doubt if the horses in this experiment have been compelled to lead the strenuous life that falls to the lot of the average farm horse, and in our opinion this fact to some extent accounts for the results that are so favorable to a pure corn ration. Practically all the big companies in cities that use a great many horses, feed oats in considerable quantity, and they do this in face of the fact that oats always sell at a higher price than corn.

UP TO THE FARMER.

The fact that the total value of exports of farm products in 1908 was \$1,017,396,404 is given by a contributor to a daily paper as one of the causes for the present high price of food products, this immense total being one-third of our total food values. He infers from this that "it is self-evident the price is not caused by the failure of the farmer to produce enough. The fact is, the farmer is doing his part and doing it well."

The newspaper to which the argument was contributed makes editorial comment thereon and points out that nearly one-half the total value of exports of agricultural products mentioned by the contributor was in cotton. A large portion of the remainder was in packing-house products, the value of which is greatly increased by the processes of preparing them for market. Moreover there has been a large decrease in exports of farm products since 1908, the year for which the figures were given. Exports of food products were \$399,000,000 in the calendar year of 1909, nearly \$190,000,000 less than in 1908, and the exports thus far in 1910 have been on a diminishing scale. With this explanation in mind, it can readily be understood that the argument of the contributor is hardly justified, a large percentage of the exports whose aggregate he quotes being products which are not regularly called food products and the amount of these annual exports diminishing so steadily that figures even as recent as 1908 are not appropriate at present.

The facts of the case seem to be that the farm industry is not growing as rapidly as other industries while the demand for farm products is increasing faster than the supply. It may be contended that the United States is still a long ways from consuming all which its farms produce, yet it is true that there is a steadily diminishing surplus for exportation, a fact which causes prices in importing countries to rise and has a corre-

sponding effect on prices in this country.

In the last analysis the explanation of high prices comes down to the farmers, on whom devolves the duty and the responsibility of feeding the world. The demand is increasing faster than the supply and until the farmer adopts and puts into practice every possible means for increasing his yields a continuation of the present high prices may be expected.

LICE ON BROOD SOWS.

A subscriber at Stanton, Iowa, sends the following communication:

I have twenty brood sows that will farrow some time in April or May, and I find at the present time that they are considerably bothered with lice. I would like very much to get the lice destroyed and yet I hesitate to dip the sows before they farrow for fear of hurting them. If there is any way by which the matter can be handled without hurting the sows, I shall be very glad indeed if you will throw a little light on the subject.

We would certainly hesitate to put these sows through a dipping tank, because the treatment they would receive in getting them into the tank or out again, would be apt to have an injurious effect on some of them. The best way to handle this bunch of sows would be to get them into a shed or into a small yard, mix the dip in right proportions, and then apply it either with a sprinkling can or with a spray pump. An ordinary orchard spray pump is ideal for this purpose, because with it one can throw a strong stream and thoroughly wet the hogs underneath as well as on their backs and sides. It is rather a good plan to keep the hogs in the same pen where they are sprinkled for two or three hours, because they will do considerable wallowing and this, of course, only tends to bring the dip in contact with every part of the body.

There is another simple little matter that ought to be mentioned in this connection. If the weather should happen to be a little cool when these sows are sprayed, there is some advantage in keeping them inside until they are dry, because if they are turned out in the wind, a few of them are apt to contract a cough. However, if ordinary precautions are taken and the hogs are kept out of the draft until they are dry, there is absolutely no danger from using any of the recognized commercial dips.

TEACHING FARMERS ECONOMY.

Dean Van Zile, of the domestic science department of the Kansas Agricultural College, intends to do all that she can to educate the housewives of the future in household economy. She has arranged a series of meat-cutting demonstrations to be given before the junior and senior domestic science girls of the college. These demonstrations will deal with the proper cutting and preparation of different cuts of meat and with the subject of how to judge the condition of the meat. The cutting will be done by Professor Patterson of the animal husbandry department, who has made a study of such work in Minnesota under one of the most expert meat cutters in the country. Dean Van Zile believes that a majority of the housewives of the country do not know where a choice piece of beef comes from or how it is cut.

The alleged ignorance of the average housewife is one of the conceded factors in the present cost of living. It is argued that the rapid spread of modern conveniences has made it so easy for the housewife to shop over the telephone or without calling at the market in person that she orders in a haphazard and indefinite manner, leaving the decision as to cuts and prices largely to the dealer. It is argued, moreover, that the average city housewife wants only those cuts and those food products which are easily prepared and so spurns the cheaper forms of food which require longer time to cook. In a number of cities demonstrations have been given by women's clubs and other organizations to instruct the housewives in this important particular, but Dean Van Zile believes that the work should be begun at as early a stage as possible and proposes that the girls who leave Kansas State College shall have the information well grounded. It is a good work and one which deserves to be carried on, not

only in other colleges but in the public schools in general as well.

BOOST FOR THE GRAIN BELT.

The records of the Iowa Weather Bureau show that March, 1910, set a new record for early fine weather. There were more warm, sunshiny days in the month just closed than in any March since the establishment of the Iowa Weather Bureau thirty years ago. For twenty-eight consecutive days the sun shone steadily.

The fact is that the entire grain belt has every reason this year to put it over California in this matter of boosting its climate. The climate not only of California, but of Washington, Oregon, and practically the entire Pacific Northwest, is largely a matter of local patriotism and boosting. The average easterner who visits any one of these western states and who encounters a bad, squally or stormy day is invariably told that he is experiencing "unusual weather." In many respects the climate of the Pacific coast is as erratic and undependable as the climate of the Mississippi valley has the reputation of being.

A few Marches like that of 1910 and a concerted system of appreciating good things and boosting on the part of the people will make the grain belt climate as famous as that of California.

The grain belt needs to learn this lesson of boosting from the West. It has practically as good a cause, but it has never yet worked up the enthusiasm and the get-together spirit.

GIVING THE COLT A STRONG START.

In these piping times when a good draft gelding is worth anywhere from \$200 to \$300, it is always in order to give a suggestion in regard to the care and management of colts. The subject is brought up at this time by an Illinois subscriber, who says:

When a mare is expected to foal, an attendant should be on hand to give assistance in case help is needed. It is best to have the mare foal in a pasture or lot if the weather is warm and dry, but if, on account of the weather, she must foal in the stall, have it roomy, dry and well bedded, with no holes or hanging straps or harness into which the foal can push its head.

Care should be exercised to prevent navel infection, and a clean foaling place with plenty of good bedding is usually all that is necessary. Binding the cord in boric acid powder and pure cotton is a great precaution. It is always best to interfere as little as possible with the mare or her foal unless obliged to do so.

It is important that the foal suckles as soon as possible after birth. The first milk of the dam acts as a purgative and prepares the colt's digestive tract for the digestion of the milk. The condition of the colt during the suckling period depends to a very great extent upon the treatment given the mare. If the dam has not been well fed during pregnancy and the flow of milk is light, she should be given much the same ration that is fed a dairy cow. If, on the other hand, her milk is too abundant or too rich, her feed should be lessened, and the colt not allowed to suckle when the mare is apt to scour. The colt should not be allowed to suckle when the mare is heated.

If for any reason the mare cannot suckle the colt, cow's milk may be used; it should be reduced one-fourth by water and fed at blood heat, with a little sugar added for taste.

It is important to carefully observe the colt's bowels for the first few days and, if necessary, use injections of warm water for the removal of any hard masses so likely to accumulate in the rectum.

When the colt is ten days or two weeks old, the mare may safely be put to light work. With a little more care, just as good colts can be produced from work mares as from those turned into the pasture and allowed to go idle. When the mares are being worked, it is well to leave two colts in one box stall with plenty of oats and good hay, preferably clover. Both mares and colts soon become accustomed to this arrangement, and it is in every way better than to allow the colts to follow their mothers. In a short while they depend as much on the oats and hay as on the milk of the dam. If they can be turned out with their mothers at night at pasture, it makes an ideal condition. Colts thus handled never stop growing when weaned, and will compare very favorably in growth with those running in pasture all the time. In case no use should be had for the mares, and they are on grass, the colts should have oats, or oats and bran after they are two months old.

The best time to start a colt off in the way it should go, both in feeding and training, is when it is young. It should be liberally fed bone and muscle-making foods, but should not be given more of these than it will eat up clean.

When the colt is quite young a loosely-fitting halter should be put on its head and it should be led about the lot

a short time each day. By thus handling it when young it will soon learn to respond, and there will be no trouble in having to "break" it to work when it attains the working age. Kindness is a very necessary feature. The youngster should be handled gently at all times.

We are free to admit that we have always been a little partial to the plan of allowing the mare to be in the pasture at foaling time. Of course, in that case she cannot be watched like she can if she is in the stable, but one can rest assured that there is no danger of disease germs lurking around an ordinary pasture, because the sunshine is their most deadly enemy. We have raised a good many colts and we have never had a case of joint-ill where a colt was foaled in the pasture and kept there for a few days. Of course, if the weather is bad it is not always practicable to do this, and in that case the advice given by this subscriber is good, namely, that the stall when the little fellow arrives must contain plenty of good, fresh bedding, and it is a most excellent idea to use some form of antiseptic on the navel cord. If a little attention is paid to the movement of the bowels, very little trouble need be anticipated after that.

INFECTED SOIL FOR ALFALFA.

It is a well-known fact that unless conditions are favorable for the development of the proper species of bacteria on the roots of legumes, that the proper kind of development of root, leaves and stem cannot be expected. The soil of the great central West has now become quite well infected with the organisms that live upon the roots of red clover, but this is not true generally of the alfalfa organism. As a result, we find instances here and there where alfalfa literally starves to death on a soil that seems fairly well off from the standpoint of plant food. Such a soil needs the infection, and on this point Secretary F. D. Coburn in his work on alfalfa, says:

Several methods of preparing land for alfalfa by introducing its peculiar bacteria have been suggested, and practiced to some extent. Many farmers and experimenters have used with success infected soil upon their lands; soil from established alfalfa fields, or that from along the roads or creeks where sweet clover or bur clover has been growing. This soil is spread upon the field or sown with alfalfa just before the seeding. If the drill is to be used the inoculated soil is spread on and harrowed in. If the seed is to be broadcasted, the infected soil may be harrowed in with the seed. It is better, however, to harrow this infected soil in thoroughly before seeding. Experiment stations recommend an application of 200 pounds of such soil to every acre, but good results have been secured from half that quantity. This will depend very much upon the nature of the soil, and the subsoil, especially. Many fields seem to have these bacteria waiting for the coming of alfalfa. Land that has been well manured and contains abundant humus, and land that is light and friable will usually respond to the bacteria life attached to the alfalfa seed. Most farmers who have established fields will sell soil to their neighbors, which should be from the top six or eight inches, and include roots, stubble and earth. Both sweet clover and bur clover are found in almost every neighborhood in the northern states, while the latter is very general in the South.

Some alfalfa raisers make a business of selling and shipping inoculated soil. Probably any experiment station will ship small quantities to farmers within its state, at about the cost of digging, sacking and delivering at the railroad station. Therefore, if a farmer desires to use it, little labor or expense is attached to doing so. There is reason, however, to doubt the need of this method in any of the western or central western states. No doubt there are advantages in using it in most states east of the Mississippi river, in order to hasten the development of the bacteria and to make a good stand more certain.

It will be noticed that Secretary Coburn favors the opinion that land well manured and in a proper state of tilth responds when alfalfa seed is sown on it, by bringing about the development of such organisms as adhere to the seed. A great many successful alfalfa growers in the central West have never used any artificial methods for getting the alfalfa organism into the soil, and these men naturally hold the opinion that the essential thing is a proper condition of the soil. There is no doubt but what a well-drained, well-fertilized, friable soil, with the proper kind of subsoil will produce alfalfa, and crop failure usually results more from a lack of the proper cultural methods or prop-

er condition of the soil than from the lack of specific organism which lives upon the roots of the crop.

SHORT MEASURE FRAUDS.

That the consumers of this country lose millions a year by short measure is the charge made by Secretary Hubbard, of the National Bureau of Standards. Some of the particulars of the charge are of considerable interest to farmers, as for instance, the following: "It may surprise many to know that 13-ounce packages of butter are often sold at pound prices, though there is little if any evaporation; that the shortage on flour often pays for the milling; that bread weight is usually subnormal; that in some places meat is sold by butchers' salesmen at the same price as they pay for it, the profit being made from short weight. One inspector reported a shortage of 25 per cent in ice cream

boxes from four cities. Cranberries, beans, and other dry commodities are often sold by the liquid quart instead of by the dry quart—a shortage of 20 per cent. The consumer often pays for paper bags at the price of tea, for wooden butter trays at butter prices, and for pasteboard at the price of crackers."

In most of the states and cities there are strict laws governing short weights, but it is undoubtedly true that many prepared food stuffs are sold by packages rather than by weights, although the inference of the purchaser is that the package contains a certain amount. Where the package is not distinctly labeled that it contains a pound, a half pound or some certain measurement, it is difficult to successfully prosecute. In the case of food stuffs sold in bulk this does not hold true and a few prosecutions might have a salutary effect.

Drainage of Swamp Lands

GREAT progress is being made in the drainage and reclamation into farming land of swamp areas in almost all the eastern states, but with eighty odd million acres still swamp there is still room for much drainage activity. Where good projects are selected, careful preliminary surveys made and the management of the enterprises is honest and conservative, drainage is a highly profitable undertaking. The fertility and productivity of swamp land is well known. It averages by far the richest of our land.

Swamp land drainage is in many ways a far more attractive proposition than reclamation by irrigation.

From a report prepared for the national conservation commission by the United States geological survey, and from the topographic maps of the survey, it appears that there are many easily reclaimable tracts in almost every eastern state. Swamp reclamation is usually much cheaper than by irrigation, involving the construction of no towering dams and huge masonry conduits for the conservation of every gallon of water, and while the desert, unreclaimed is healthy, swamps left to themselves are usually pestilential and malarial breeders, i. e., mosquito propagators.

The average of the government irrigation projects in the West have cost upward of \$30 per acre, but the geological survey cites reclaimed swamp lands in Morgan county, Ind., 23,000 acres which cost but \$4 per acre for drainage, while in Mason and Tazewell counties, Ill., 35,000 acres, previous to drainage worth \$10 to \$15 per acre, is now worth \$50 to \$60 per acre.

The state engineer of Minnesota states that 3,000,000 acres have been drained in Minnesota at an average cost of but \$1.50 per acre, exclusive of individual farm drainage. He cites an instance where land was drained in 1906 and in 1908 produced celery which gave a net return of \$1,500 per acre.

In South Carolina, Charleston county reclaimed 75,000 acres of swamp (the Holbeck swamp) at a cost of about \$1.50 per acre. The land was assessed at \$2 per acre prior to drainage; some of it is now held at \$250 per acre.

The following portion of a letter regarding the health question in connection with this swamp is significant of the possible improvement in health conditions which might apply to portions of every eastern state:

"When we first decided to locate in Charleston and were looking for a site, we were informed that the Holbeck section was considered very unhealthy, but we had faith in the work of the drainage commission and decided to erect our plant at that place. The section had always been unhealthy, so that it was impossible for people to live in the vicinity. One of the first buildings we erected was a twenty-room hotel, built in 1905, which has since been fully occupied by our employes and we have yet to learn of the first case of malaria at the hotel. We are satisfied that this section is now as healthy as any in the country."

The first thing that is needed for a drainage project of any magnitude is

a careful topographic survey, as an inadequate survey may result in disaster to the enterprise.

Moreover, with a good basic survey the cost of drainage can be estimated very closely. False estimates, resulting from hasty surveys, have been the rocks on which many good drainage projects have foundered.

Preliminary to extensive drainage construction works in the Yazoo delta of Mississippi, the geological survey, in co-operation with the Mississippi authorities has been making a most detailed survey, showing every little physical feature of the country, at a cost of about seven or eight cents an acre. It is supposed that as soon as drained the land values will jump from a few dollars to \$75 to \$100 an acre.

Similar co-operative surveys are now being made in Louisiana swamp lands. Where the project is a good one and the surveys and construction well done there would appear to be no difficulty in getting ready financial backing. As an instance, in the Yazoo project, the local banks offered to take the whole of the \$500,000 of 6 per cent bonds at par, authorized as the first instalment for this work, recognizing them as an excellent investment. This single project should add between \$3,000,000 and \$4,000,000 in farm values to this section.

In Iowa drainage is being pushed, the land being assessed under a state law, according to the benefits derived. The assessments range from \$3 to \$11 per acre.

In southeastern Missouri it is estimated that \$500,000 acres can be reclaimed at a cost of \$10 per acre. In southwestern Indiana a preliminary report was made regarding the leveeing of 91,000 acres of Wabash river overflow land, with an estimated cost of \$8 per acre. The size of drainage projects, of course, largely regulates the cost per acre, the greater the area under similar conditions, the less the average cost.

In New York 30,000 acres in the Conawango swamp were drained at a cost of \$2.50 per acre. In Louisiana considerable activity is being displayed in drainage improvements, in one district the local authorities, co-operating with the United States geological survey for a topographic survey similar to the one in progress in Mississippi. North Carolina recently turned over to the state geological survey the control of 53,000 acres of swamp to enable it to study the feasibility of its drainage.

In many other states drainage plans are in process of formation or execution for larger or smaller tracts. The great swamp areas, however, are mostly being left to the future.

NARROWING THE HIGHWAY.

The plan promulgated by Governor Carroll, of Iowa, to narrow the roads from sixty-six feet to forty-six feet, and return the strip of land to cultivation, seems to be spreading rapidly, if a western newspaper which publishes the following item is to be credited:

To improve roads by farming them is the unique plan of a middle West good roads society. It seems the average width of pub-

lic highways in Minnesota, Wisconsin, Michigan, Iowa, Kansas, Nebraska, Missouri, Illinois, Indiana and Ohio is 66 feet.

In Prussia, famous for its good roads, the average is but twenty-two feet.

Giving America an allowance of eight feet, it is the plan of this society to reduce the width of the roads in these 10 states to thirty feet and devote the surplus thirty-six feet to the growth of wheat, corn and other products indigenous to the district.

By this process 2,500,000 acres of tillable land will be created, which, valued at \$100 an acre, will produce a landed capital of \$250,000,000, which, at 5 per cent interest, will furnish an annual income of \$12,500,000.

It is the idea of the society to place this sum as a permanent fund for the improvement and maintenance of the public highways, which will, in their opinion, result in the establishment of the finest road system in America.

Since the publication of the original article, Governor Carroll has given out an interview in which he states that he is not in favor in every case of narrowing the roads. He announces that particularly should this be done in hilly sections where wider roads are necessary. The governor has had a great deal of publicity as a result of his plan, and if the western newspaper is correct, a regular society has been organized to further the movement. It will not do, however, to establish any hard and fast rules, as conditions vary so greatly in different parts of the country, and a narrower road, while sufficient in some sections, would be almost worse than no thoroughfare at all in others.

A Kansas woman told the assessor when he called that all the property she had was two children and the rheumatism.

KEEPING THE LAND BUSY.

(Continued from page 3.)

and the profit of this poultryman has been increasing steadily. One of the most interesting phases in connection with this matter of intensive farming is the fact that these tracts are being managed in many instances by women and girls who in some cases continue their regular employment in the city, spending their evening hours and Saturday half holidays and their Sundays on their small, near-the-city farms. Where the greatest successes have been made, however, the women have devoted their entire time to their tracts, finding therein more profit and a greater amount of pleasure than could possibly be derived by any city employment.

ROSY COLOR Produced by Postum.

"When a person rises from each meal with a ringing in the ears and a general sense of nervousness, it is a common habit to charge it to a deranged stomach.

"I found it was caused from drinking coffee, which I never suspected for a long time, but found by leaving off coffee that the disagreeable feelings went away.

"I was brought to think of the subject by getting some Postum and this brought me out of trouble.

"It is a most appetizing and invigorating beverage and has been of such great benefit to me that I naturally speak of it from time to time as opportunity offers.

"A lady friend complained to me that she had tried Postum, but it did not taste good. In reply to my question she said she guessed she boiled it about ten minutes. I advised her to follow directions and know that she boiled it fifteen or twenty minutes, and she would have something worth talking about. A short time ago I heard one of her children say that they were drinking Postum now-a-days, so I judge she succeeded in making it good, which is by no means a difficult task.

"The son of one of my friends was formerly a pale lad, but since he has been drinking Postum, has a fine color. There is plenty of evidence that Postum actually does 'make red blood,' as the famous trade-mark says."

Read "The Road to Wellville," found in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

Subscribes to Homestead 48 Years



Mr. L. L. Smith has the Unique Distinction to have Belonged to the Homestead Subscription Family Almost a Half Century---Pays Remarkable Tribute to What He Declares to be the Greatest Farm Paper in the World---Changes Made in One Man's Lifetime in Farming Methods



MR. L. L. SMITH, of Hollywood, Cal., formerly of Brooklyn, Iowa, has been a continuous subscriber to The Iowa Homestead for the past forty-eight years. The Homestead is now in its fifty-fifth year, but so far as is known, Mr. Smith is the longest living continuous subscriber. Should any person be living who has taken the paper longer than Mr. Smith, the editor would deem it a personal favor if he would send his name and address. In the meantime, however, it appears as though Mr. Smith were entitled to the honor, and The Homestead to the distinction of having a member of its subscription family who has taken the paper longer than any other man has taken any other agricultural paper.

Mr. Smith first subscribed to The Iowa Homestead during the Iowa State Fair of 1862, which was held at Dubuque. He had, early in his career, become convinced that the man who wishes to make a positive success of farming must of necessity keep abreast of the times and be posted on the latest agricultural discoveries and inventions. It was through an item which he read in an eastern agricultural paper that he made his first notable profit. Reading an article on bee culture he decided to invest in a stand of bees, paying therefor \$3.50. Before he left the East, having decided to take Horace Greeley's advice, "Go west, young man," he had made a profit of \$375 off the one stand of bees.

Locating in Poweshiek county, Iowa, Mr. Smith entered 240 acres of land and devoted himself to general farming in what was then practically the agricultural frontier. With the memory of his bee experiences fresh in his mind, he attended the state fair of 1862, determined before he returned to subscribe to the best all-round agricultural paper published in the section of the country which he had decided to make his permanent home. He looked over the newspaper situation carefully and became convinced that The Iowa Homestead was the paper which would do him the most good, and accordingly he gave a solicitor his subscription. Every week since then Mr. Smith has received The Homestead, not missing a single issue, and every week he has found practical advice and information by which to profit.

Mr. Smith soon established more than a local reputation as a live-stock breeder. Reading of the superiority of Chester White hogs over the nogs which a majority of the farmers then living in Iowa were raising, he sent back to Chester county, Pa., and bought three; one boar and two sows, and named them Fremont, Jessie and Beauty. Beauty at her second litter farrowed nine. One of them, a male, was nearly as large as two ordinary hogs. When it was four weeks old Mr. Smith sold him for \$5, an act which he frankly admits to be the one big mistake of his life in stock raising.

When twenty-two months old this hog weighed 1,250 pounds. At that time he was bought by H. C. Graff, of Maysville, Ohio, who paid \$40 for him. The next fall Mr. Graff exhibited this hog at county fairs and other places and made more than \$1,000 thereby.

According to the newspapers of the time the hog was a remarkable one, measuring eight feet six inches in length, and with a girth of seven feet ten inches. A newspaper clipping, which Mr. Smith values because of its association, has this to say of the animal: "He is a model hog in every respect, having a short, thick head, square build, full, round, prominent ham, stands square and firm on his feet, and can walk around as nimble as a hog of 400 pounds. He is getting in fine condition and is pronounced by good judges to be able to fatten to 1,400 pounds."

Under date of December 3, 1863, Mr. Graff wrote to Mr. Smith saying that the hog weighed 1,360 pounds after having been hauled thirty miles on the day of weighing. The next fall the hog is said to have weighed 1,500 pounds. Mr. Graff

made the mistake of hauling him too far, however, on a sultry day and the heat killed the hog.

Although Mr. Smith had made a mistake in disposing of this remarkable animal at such an early age and for so small a price, he did not let the one mistake discourage him. Mr. Smith exhibited Fremont and Beauty and several other hogs at various Iowa State Fairs, then held at Iowa City and Dubuque, and at several county fairs, winning a number of premiums on them. He did well with the young ones and sold several from \$20 to \$35 apiece.

Not only did Mr. Smith achieve a reputation for the splendid exhibition hogs which he raised, but he put to practical use the knowledge gained from the columns of The Iowa Homestead with such good results that he topped the Chicago market on four different kinds of stock in one day, a record which has never since been equaled. A consignment to a Chicago commission house topped the hog market by five cents per hundredweight, sheep market by fifteen cents per hundredweight, bull market by ten cents per hundredweight, and the cow market by ten cents per hundredweight. Mr. Smith had proved that newspaper farming is a success, after all, and The Homestead's teachings were vindicated in a most striking manner.

It is interesting in this connection to note what prices hogs were bringing on the Chicago market, and the advice given to breeders in the days when Mr. Smith began taking The Homestead. One of the first issues which reached Mr. Smith in the early stages of his long subscription contained this advice on the subject, "Heavy vs. Light Hogs for Market:"

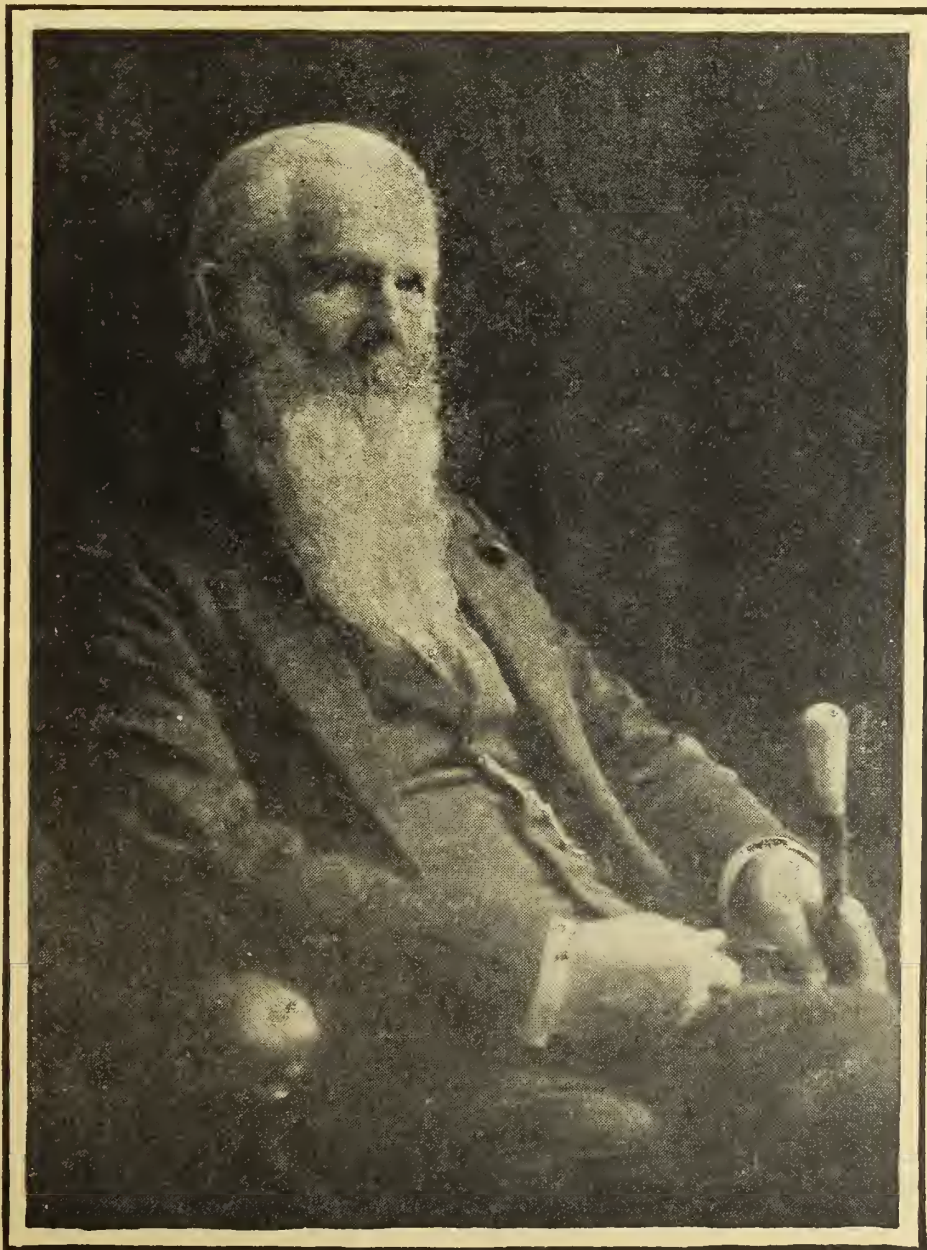
"There is too little attention paid, by farmers generally, to the quality of hogs which they raise, both for stock and for the market. That there is a vast difference, there is no doubt, between the right kind and the wrong kind, as in every other production of our country or commodity in the market. Some farmers think that the number of

hogs is all that they should care for, without regard to the general size, or their fattening qualities. Hence, we often see, as we pass through the country, animals which their owners call hogs, but which are about as much entitled to the name as a mule would be entitled to the name of horse—certainly not more so. All farmers will admit that the 'Almighty dollar' is the great object of their labors, yet many of them prefer half a loaf when they might just as well have the whole loaf. If they would keep none but the best kind of hogs they would expend their labor and their grain to much better advantage. You might as well try to fatten a seven-rail fence as some hogs we have seen. It is true that such hogs are very safe stock to keep upon the prairies, as their speed is so much superior to all carnivorous animals living upon the prairies that their owners run no risk of losing them from that cause. They can never be kept quiet long enough to be fattened, although they may live to the common age of man.

"We would advise every farmer who owns such a breed of hogs to dispose of them in some manner. If you cannot sell them, give them away. You had better pay \$100 for a pair of the right kind of pigs to start your stock with than to have 10,000 such hogs as we have been speaking of given to you. There is no sort of comparison. Obtain a good breed of hogs, such as are quiet, properly formed for fattening, and of good size, and you will have a source of profit. Every bushel of corn you feed them will make its proper quantity of pork and growth of the frame. There is not the least difficulty in raising hogs weighing from 300 to 400 pounds, and a farmer should never be satisfied until he does it. It costs but very little more to raise a hog of that size than one of 200 pounds and the former always commands from twenty-five to fifty cents per hundredweight more in the market than the latter. We do not care for the reason—the fact is so. Hence farmers see and feel the importance of first having

good stock hogs, and, secondly, of fattening them properly for the market. Therefore, we say to every farmer, improve your hogs if you wish to make them a source of profit to you. It is an old saying, and a true one, that "what is worth doing is worth doing well." This has a particular application to hog raising. No matter what the first effort costs you, obtain the best hogs you can get and never starve them to death, nor allow them to shift for themselves. Keep only as many as you can keep in good condition and have plenty of corn to fatten. That our readers may see the difference between large hogs and small ones in a pork-packing market and also be convinced how much they are deducting from the profits which they might receive from this branch of business, we hereto annex a report of the Chicago pork market: 'Sales of dressed hogs include 530 in two lots at \$5, \$5.50 and \$6, dividing on 160 and 200 pounds, but later equally good lots offered at the same rates were not taken. Forty-two in three lots at \$5.25 and \$5.75, dividing on 200 pounds. Thirty-eight, all of which weighed over 200 pounds, a nice lot, at \$6; lots weighing less than 100 pounds at \$4.50, and 100 to 150 pounds at \$4.75.'

"The above extract from a reliable market report should command the attention of every farmer who sells even 100 pounds of pork. It will be seen that the mere fact of a hog weighing over 150 or 200 pounds commands \$1 per hundred more than one weighing anything less than 160 pounds; and also that hogs weighing over 200 pounds bring \$1.50 per hundred more than those weighing less than 100 pounds. Such facts and figures will convince any progressive farmer of the advantage of having his pork come up to the high-priced weight. Under this rule of prices, and it is not essentially different from the prices in all pork markets, it is almost a question of choice with



L. L. SMITH,

Who has been a continuous subscriber to The Iowa Homestead for the past forty-eight years.

(Continued on page 17.)

FARM FURROWS

Turned By a Practical Farmer

The weather that kept much corn in the field all winter kept a pile of manure at my barn door. It was frozen tight for nearly three months. The other day it was hauled—twenty-two spreader loads of it—and it made almost three acres of land look \$5 an acre better to me.

Why is it the pigs are never out until you are ready to do something in a great hurry? The other day, when I had my Sunday-go-to-meeting clothes on and had the team hooked up to start for town, a dozen shoats poked their noses around the corner of the barn.

Ought a post to be set or driven the "easy end" down? I have heard the question argued by the hour, and know no more about it than I did before, but have a hint of an idea that the bigger the portion in the ground the longer it will last.

My guess is that the corn acreage is going to be a whopper this year. A lot of the clover has been frozen out, in the winter wheat belt much of the wheat has been winter killed and will be replaced with corn, and everyone has more of an idea that corn is king, anyway. It would do me good to see corn enough raised once again so there are no poor horses in the country.

No washing has been done this winter except that hung out on a line. The washing in the fields has been prevented by Jack Frost, but I look for considerable soil to find its way into the streams if we have heavy rains this spring and early summer. The soil is so loose and mellow that a lot of it could be moved with a little water. I am going to see that the draws on my farm are kept "staked and ridered."

Plow makers should provide for as much adjustment of the coulter as possible. Having a socket for the coulter and nowhere but there to put it, doesn't suit me. The other day I saw a neighbor pulling trash from the throat of his plow. The coulter was set far back on the landside, but that was the only place on the plow where it could be set. When plowing in trash I find my plows do better work with the coulter set well forward.

An old-fashioned winter is soon forgotten when followed by an old-fashioned spring.

It beats all how friendly and chatty the candidates for county office can be just before the primary election. In many ways they remind us of the proverbial small boy just before Christmas.

A prolonged dry spell is the best road maker and this should teach us that to get rid of the water is the first step in road making. If a certain per cent of the road money could be set aside for tiling the roads even though it were necessary to go upon the adjoining land to get an outlet it would be better than piling more dirt on the grades where the water can not be carried off by drainage.

A great many farmers are getting the bank habit in these piping times of prosperity and are finding that check books act as a check on many little leaks that come if money is kept in the pocket or about the house.

Corn husking is finished and seedling has begun. It was no uncommon sight a short time ago to see teams in one field putting in grain and other teams in nearby fields getting out corn.

In buying any kind of farm machinery it is a good plan to consider the merits of the machine first and the price afterwards. A few dollars on the first cost is soon forgotten, but the machine is with you always.

The only croaker that is at all wel-

come is the little frog that gives forth a faint croak to let us know that spring is here. The human croaker is never welcome and his noise even less so.

I wish someone could tell us how to clean a hand separator without washing it. We have tried flushing out the bowl with water of different temperatures, but it generally turns out to be a sort of a bob-tailed flush. We have also tried rinsing with no better results. Until we know better we must continue to wash our separator twice a day in order to keep it clean.

There will be many new silos built in this vicinity this summer; the main thing to guard against is to make them absolutely air tight and not too large in diameter. Where anyone keeps twenty cows or more a sixteen-foot silo may be used, but it is doubtful if any larger will ever be built here.

According to a British scientist the earth will be 400,000,000 years old in June or July of this year. I am sorry that they can't be a little more exact about dates. If we knew the birthday of old mother earth we would knock off work at four o'clock that day.

Two neighbors were competing in the erection of life-like scarecrows in their corn fields. They both succeeded very well, but one claimed that he scared the crows so badly that they brought the corn back that they took away the week before.

I am sorry to confess that I believe that one of my neighbors stretches the truth a little at times. Of course, I have no positive proof on the subject, but I will give you an example and let you judge for yourself. His wife started an incubator about a month ago and I saw him yesterday and asked him what success they had in their hatch. "Quite good success," he replied, "as we averaged a little over one chicken to each egg."

It makes me feel very disagreeable toward all the lower animals to have an old sow tear up good blue-grass pasture at the rate of a quarter of an acre a day. After the first day I always resort to ringing and I do it to protect my pastures and also to protect the sow from her own labors, because that much work calls for energy that really ought to be spent in another direction. If I had to write a hog platform for a swine convention I would certainly put an anti-root plank in it.

After two or three months of zero, we all like to see spring weather, but hereafter I wish it would come to stay upon its first arrival, even at the expense of putting off its first appearance a few days.

Twenty-five acres of corn well put in and well tended beat forty acres that is slighted from first to last. A good many have learned this through experience and some still have it to learn.

It doesn't pay to use a planter one hour that doesn't plant right. I have used a "balky" planter and have not yet forgotten what it cost me the season before it went to the scrap heap.

For two nights I have been aroused from sound slumbers by the cavorting of three two-year-old colts that have lately got up to the trick of fence breaking. A colt smart enough to open gates usually makes a smart horse if its smartness is trained in the right direction, but it is sometimes aggravating to put up with its coltish smartness.

More destructive fires than usual have occurred this spring. March was dry and warm for the most part, and fires burned more briskly than the judgment of every man told him

it would. It is always better to be safe than sorry when setting out fire.

Eggs at eighteen cents and butter at twenty-five make poultry and dairying a profitable farm line. I often think that some of the fellows who farm sections would gain more leisure and just as much profit by cutting down field operations and paying more attention to the cows and hens.

Those auto drivers whose speed mania demands that they cover their faces with goggles certainly look queer and almost unhuman-like, but I must confess that I wished for a pair of those very same goggles while trudging along on the dusty side of a harrow, the other afternoon. They would also be the correct thing on thrashing day.

Politics are beginning to simmer a little. Putting party above man is a poor plan and folks are outgrowing it. We cannot afford to put poor sticks in office just because our party has nominated them.

Putting up a good dirt grade and then letting it go to ruin for lack of a little attention, has been the most expensive road proposition of the past. The road drag keeps up a grade that has once been put up and is the cheapest method of maintenance that road officials can buy.

Nothing is so aggravating as a part of a stand of any crop, say just enough so that you do not know whether to leave it or replant with that or some other crop. It often pays to leave a half-stand when it is getting a little late in the season for that particular crop, but it is best to draw the line at that.

Buckwheat is a crop that has nearly lost out in the corn belt. New York and Pennsylvania now seem to lead in buckwheat. Years ago I raised a few crops of buckwheat, one or two of them quite profitable, but as a rule when a man can raise good corn he misses it by swapping his corn chance for the uncertainty of a profitable crop of buckwheat.

Nine-tenths of the salted peanuts are nothing in this world but cow peas, and practically all the peanut candy is made with these peas instead

of peanuts. For some time I have been debating with myself whether or not to try a patch this year, not that I expect to embark in the business of dispensing peanuts and candy from a street corner stand, but for the good the hay would do my milk cows.

One year I tried soy beans, but the rabbits completely cleaned out the two-acre patch. I actually believe that rabbits came from four miles to pasture on those soy beans. At any rate less than two dozen plants survived the ordeal and blossomed. Thus ended one of my experiments.

Machine parts often break easily when you do not wish them to break, but when breaking up for junk a sledge hammer has little effect. I lately sold an old mower and self binder to a junk buyer, and he hammered with a sledge for half an hour to break a frame loose that I would not have hammered on with a nail hammer during the machine's best days.

A friend of mine declares that debt is the greatest agency in the world to keep people industrious. I don't know but what he is right, at least in the majority of cases, but debt is also a source of great worry to many. I have, at times in the past, been deeper in debt than I hope it will be necessary to go in the future, and my one effort was to always not think of it, but at times it was hard to think about anything else.

Speculating on the board of trade is probably the easiest and fastest way of getting rid of money yet contrived, with betting on horse racing a close second. Some very fine houses help the appearance of a great many towns, built by money made by buying and selling on the board of trade, and some financial wrecks walk the streets of the same towns, made so by the same adventures in futures.



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CURRENT EVENTS

DAVID J. BREWER, associate justice of the United States Supreme Court, died suddenly of apoplexy during the week. He had been on the supreme bench for eighteen years and was conceded to be one of the ablest members of the court. He was regarded as most affable, approachable and accommodating and at the same time possessed of legal acumen which made him an authority, especially on matters dealing with corporations. Justice Brewer was essentially a western man and his sympathies were always with the West. He was born in Asia Minor seventy-seven years ago, the son of American missionaries. Graduating from the Yale law school at an early age, he entered the practice of law in Leavenworth, Kan., and progressed rapidly in his profession until finally he was appointed a judge of the federal court by President Arthur. During his incumbency on the supreme bench of Kansas, Justice Brewer handed down a decision that women are eligible to the office of county superintendent of public schools, also another decision sustaining the right of women to money possessed by them at the time of marriage and to all money earned by them thereafter. Justice Brewer was appointed by President Cleveland in 1896 to the Venezuelan boundary commission and by President Harrison to the United States Supreme Court in 1892. His sudden death may make necessary a re-trial of the cases concerning the Standard Oil and the American tobacco companies. Justice Brewer had made a special study of these cases and no other member of the court is qualified to take his place in the emergency.

A HOT fight is expected on the statehood bill which Senator Beveridge, of Indiana, is championing. Arizona and New Mexico have made strenuous efforts at past sessions to be admitted to the Union, but have missed out by narrow margins. At the present time there is very little opposition to their admission, but there is difference of opinion as to some of the details of their constitution and government. The present election law in Arizona is one of the matters which is likely to be thrashed over at some length, it being charged that it would disfranchise a large number of the oldest and most substantial citizens of the territory by reason of their inability to interpret the constitution of the United States in English. A large proportion of the citizens of both territories are of Spanish and Mexican blood and while they are loyal to the United States, yet they carry on the bulk of their intercourse in a foreign tongue. This condition would probably be greatly changed when statehood had opened up opportunities so that easterners and northerners come into the new states in large enough quantities to dominate the situation. It is considered highly probable that the two territories will be given separate statehood at this session of congress. This would seem to be their due, as both have made good and steady progress in the last ten years and are entitled to statehood fully as much as Nevada, to say the least.

THEODORE ROOSEVELT delivered a speech before the University of Egypt, in which he took occasion to denounce the tactics of the nationalists in their effort to overthrow the Egyptian government and bring about a new order of political things. The efforts of the nationalists have resulted in assassination and Roosevelt denounced these revolutionary methods in no measured terms. His speech was a firm stand for law and order, but at the same time it antagonized the younger reform element in Egypt and a hostile demonstration was made against the ex-president a few nights later in front of his hotel, several hundred students marching and shouting. "Down with autocracy," and "Give us

a constitution." London papers have commented on the speech at some length, the Standard remarking that the ordinary traveler requires months of study and specialization before forming an opinion of foreign nations, but "with a man of genius it is otherwise. A few weeks spent at hotels and on steamboats qualifies him to pronounce judgment on the listening nations." President Roosevelt is in no manner affected by either the demonstrations or the editorials, but continues to follow the policy of what he believes to be right and honest.

SIR ERNEST SHACKLETON, the British navigator who came within 111 miles of the South Pole, has been presented with a gold medal by the National Geographical Society of America. President Taft made the presentation speech and paid high praise to the intrepidity and bravery of Sir Ernest. The attempt on the South Pole was made about the same time that Peary was succeeding at the North Pole and now it is reported that both Peary and Shackleton may make an assault on the South Pole about the same time. Shackleton made quite a favorable impression on the Washington people. He is frank and unaffected and has not allowed his honors to spoil him in the least. Washington correspondents compare him to Roosevelt because of the boyish way in which he appreciates everything. On leaving Washington he declared that he had had a jolly good time, which is reminiscent of Roosevelt's "dee-light" at all public functions.

A TERRIBLE holocaust occurred in Hungary when 400 people were burned to death. A public ball was being held in the hotel of the village, the coach house of which had been fitted up as a ball room. It was a great barn-like structure, decorated with tinder-like tree branches left from previous entertainments and by Chinese lanterns. While the dancing was in full swing a pine branch caught fire and fell to the floor. It blazed furiously and before it could be put out the light filmy dresses of several of the women had caught fire. The blaze quickly spread and a panic ensued, resulting in the loss of 400 lives. It has been several years since such a serious fire accident has occurred and in this case, as in practically all similar cases, the panic was directly responsible for the chief loss of life. Had the people kept their heads they could have emerged from the building in comparatively good order and safety and the loss of life would have been materially cut down. As it was, however, they lost their heads, a panic ensued, and one of the most frightful accidents of the century resulted.

MT. ETNA has been in eruption for several days, the villages in the immediate vicinity being threatened with destruction. After large quantities of lava had been belched forth the volcano quieted down before much serious damage had been wrought. Notwithstanding the frequent and disastrous eruptions of both Vesuvius and Etna, the people continue to live along the slopes in the vicinity of the crater. The land has been fertilized by the oft-repeated flows of lava, until it is in a high state of productiveness. People live in hopes each time that the last eruption has occurred, although frequent experience should have taught them better by this time. They are unable, however, to give up their fertile acres and till them until another eruption drives them away or takes their lives. Vesuvius has been more threatening and more destructive of recent years than Etna, although Etna is by no means a burned-out or harmless volcano.

MAYOR WILLIAM J. GAYNOR, of New York City, has taken a decided stand for reform, notwithstanding the fact that he was elected on the Tammany ticket. The

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A One-Man Hay Loader

One man easily guides the team and makes the load with the Rock Island Hay Loader. This saves one man's time in haying when men are hard to get. The adjustable apron delivers the hay on the rack when starting the load, and keeps on doing it by raising the apron as the load grows. The wind can't blow the hay away—there is no return carrier to pull it back. So there is no need for an extra man to keep the hay cleared away from the mouth.

Furthermore, you get all the hay from the field. The long, slow, oblong motion of the rakes gets every spear. The rapidly moving rakes of other loaders, with their circular "jabbing" motion, leave a lot to be raked up afterwards.

For clean work, easy draft, supreme convenience and almost everlasting durability no loader on the market can even APPROACH the

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It is a complete machine, raking and loading from the swath. Roller bearing axles and open (instead of crossed) chain drive cuts down friction and makes it PULL WONDERFULLY EASY. Throat opening is instantly adjustable for heavy or light crop. The hitch is by automatic coupling. A pull of a rope from the top of the load uncouples it.

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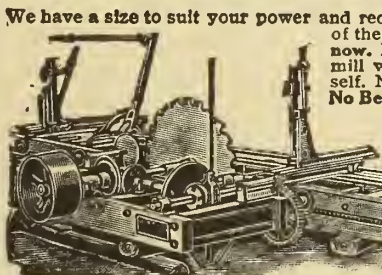
See one at your nearest dealer's. Study its workings. Then nothing would ever induce you to buy anything but a Rock Island. Or write us first for catalog and nearest dealer's name. We'll answer promptly.

Rock Island Plow Co.
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Agricultural College Reports on Paints



PROF. E. F. LADD, of the North Dakota Agricultural College, has surprised, not only the general public, but the manufacturers of honest paint materials themselves, with his discoveries of the extent and boldness of the paint frauds

sometimes perpetrated. Water is used for linseed oil and charged for at oil prices. Chalk and various ground rocks and earths are made to simulate white lead and charged for at white lead prices.

¶ No wonder many paint jobs go wrong! The property-owner's only protection is to buy his white lead and linseed oil separately and have them mixed into paint on his premises. This made-to-order paint is safe. It gives a dollar's worth of protection for the dollar expended.

¶ We guarantee our white lead absolutely pure. The "Dutch Boy Painter" is the mark to look for. Pure linseed oil can also be had. If you are in doubt write us and we will give the name of a reliable brand.

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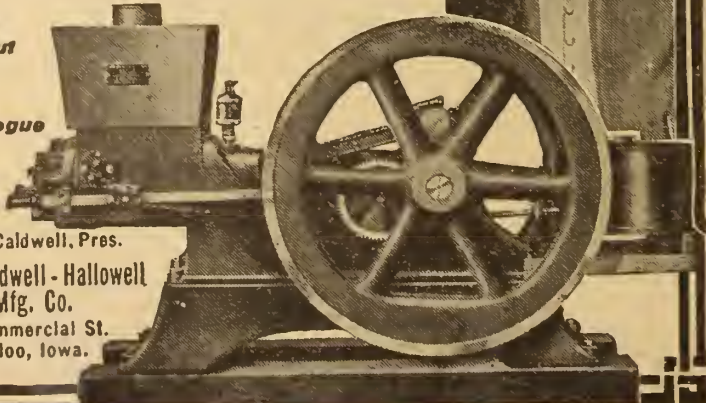
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mayor has announced that he will do all in his power to make New York a dry city on Sunday, but even before this can be done he will try to put a stop to the "eating canker of extortion." It is charged that there is a district association of liquor dealers numbering about 8,000 members, each of whom contributes monthly dues averaging about \$20 a month, the entire fund being turned over to persons of

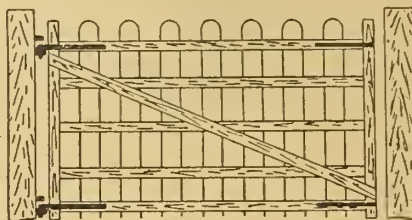
supposed influence and to police officers for so-called protection. Mayor Gaynor declares that this is contrary to all law and justice and he has issued strict orders that the liquor laws be lived up to fully and announces that any person found guilty of taking a bribe or hush-money will be summarily dismissed from the public service and severely punished into the bargain.

HINTS·SUGGESTIONS·DEVICES

We extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A STRONG GATE.

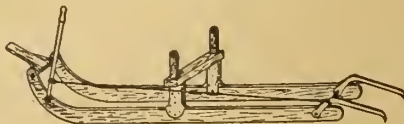
It is not an easy task to build a oaryard gate which is sufficiently strong and which at the same time can be easily opened and shut by men, women and children at will. In



the accompanying drawing we have shown a gate which has proved to be most satisfactory. One farmer in Green county (Wisconsin) has used a gate of this pattern for fifteen years and the gate is still in good repair. The timbers are all of oak, three inches square. The three center longitudinal sections or bars are mortised in the up and down timbers. The top and bottom bars are fastened securely to the end pieces by means of strips of hoop iron. Iron rods the height of the gate and curved at the top are driven through the five parallel bars of the gate. These are placed three inches apart and serve to keep out the smaller animals and fowls. The gate is hung on hinges and may be raised in the winter time to be freed from the ice and snow which always pack in a gateway. This gate can be constructed cheaply there being no patent issued upon it. It is one of the most serviceable of all the gates we have ever seen.

A Sled Sprag.

In hilly sections of the corn belt many farmers find it advantageous to equip their sleighs with a sled sprag which is attached to the rear bob and which may be thrown into the snow to serve as a brake when resting the team while going up a hill. The sprag takes the weight of the load from the traces of the horses and gives the team full benefit of the rest. The

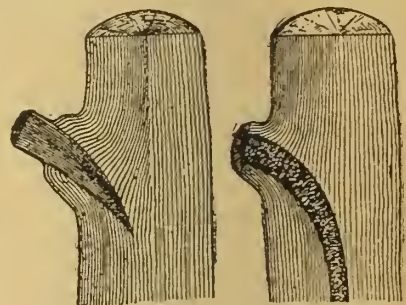


accompanying drawing shows very plainly how the sprag is attached. It is not necessary to have a brake on each runner nor is it necessary to have the sprag operated by a lever. In fact, most men merely have a brake on one of the runners and instead of using a lever walk to the rear of the sleigh and force the brake into the snow and ice by the pressure of the foot.

Decay of Limb Stub.

The decay in the stub which breaks off near its origin does not stop at that point, but the factors which have been the cause of its decay and death continue their work upon the heartwood of the plant, as shown in the accompanying illustration, until the hollow trunk of the tree only remains. On the other hand, if the branch is removed at another point the wound is rapidly covered by new growth, and in the course of two or three seasons it is practically impossible to determine where the branch formerly appeared. These results, which are so

important to the life of the tree and to the success of the plantation, whether ornamental or economic, are well understood by all plant physiologists. The stub which is left when the branch is removed, if cut off at some distance above its origin, invariably decays and leaves a hollow branch, while the branch which is cut off close to its original almost invariably heals quickly, the new growth covering the wound. The accompanying il-



lustrations appear in a bulletin published by the National Department of Agriculture.

A Home-made Concrete Mixer.

The mixing of concrete for any work of any size is a very hard and disagreeable job as well as one that takes time; with the simple mixer shown in illustration anyone can mix a batch of concrete ready to place in one-fourth the time that it can be done by hand and in a more thorough manner.

A piece of gas pipe about six feet long is bent into a shaft and handle or crank as shown in Fig. 1, just be-

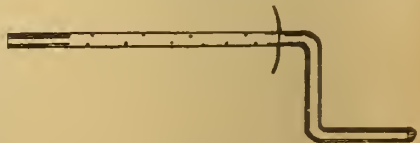


FIG. 1.

fore the bend for crank a three-eighth inch hole is drilled through pipe and a pin inserted to fasten the crank to the cube box used for a mixer. Holes of one-fourth inch are drilled in the pipe all around same at the point the shaft goes through the mixer; this is so the water can flow into the shaft and through these holes onto the concrete, thus making a spray to thoroughly wet same while mixing. This shaft may be made of one-inch gas pipe which is ample for the purpose.

The cube mixer is made of boards as shown in Fig. 2, in a square box

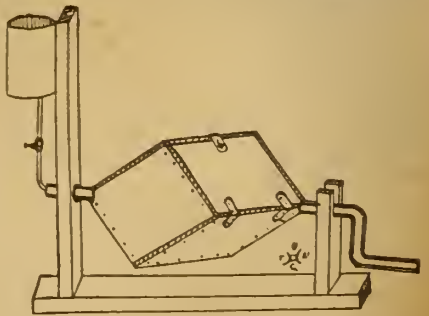


FIG. 2.

form twenty-four inches each way; this must be solidly made to stand the work. On one side hinge is a door as shown in illustration, this is fastened with a catch and allows for the easy loading of the mixer with sand and cement and the removal of

the concrete. To make the work more thorough and accurate, place fans or shelves on all sides of the inside of the cube, this is arranged by cutting a six-inch board the length of the inside of the cube and setting it in the center of one side, to project towards the center of cube its width or six inches; these catch the concrete as the cube is revolved and turn it over so the simple turning of the crank turns the concrete over many times faster than may be done by hand.

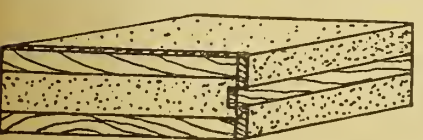
A framework is built for the cube and shaft, as shown in illustration, one end of shaft is higher than the other so the water from tank will flow down to the center of mixer. The one side of platform is high enough so a tank can be attached to same and a small gas pipe run down and into the end of the shaft. This should have a gate or valve attached to same so the water can be turned on or off at will; this is necessary, as the concrete must be mixed thoroughly while dry then the water added and again turned until it is evenly wet; the standards of platform that support shaft have a slot and hole as bearings for the shaft.

The entire cost of the mixer of this kind is but a few dollars and the cost may be saved in one day's work, as it will handle concrete in about one-fourth the time required by hand and do it better and more thoroughly.

Constructing a Concrete Wall in Sections.

In building a concrete wall under a building already erected, the usual plan is to raise the building and lower it upon the wall when finished; an expensive method which can be avoided with the plan of building the wall in sections, as for instance one under each corner at first, then fill in the sides after the corners are hard enough to support building.

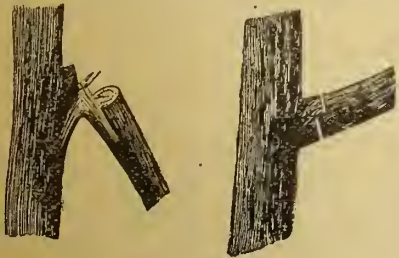
Concrete will shrink from one-sixteenth to one-fourth inch and to prevent a crack where the two sections join together, a "lock" is molded in one section by taking two pieces of board that are slightly beveled on one side; these should be narrow enough to leave a space of two or three inches between same, when set at end of wall as shown in illustration; this molds a tenon or "lock" on the end of first section, this projects into the second section and thus makes a tight joint even after the concrete wall shrinks.



To prevent a crack between sill of building and wall, nail a one-inch square strip on the under side of sill, this projects down in concrete, as shown in illustration, and makes it tight and weather-proof.

How to Remove Large Branches.

In order to facilitate the healing process in the plant, all wounds which are made should be left smooth; that is, if it is necessary to use a saw in removing a large branch the cut surface should be left smooth and clean, particularly around the edges. The saw should be sharp and should leave a clean cut, and this should in turn be made smoother by the use of the pruning knife or a sharp chisel, as the healing process starts quicker and

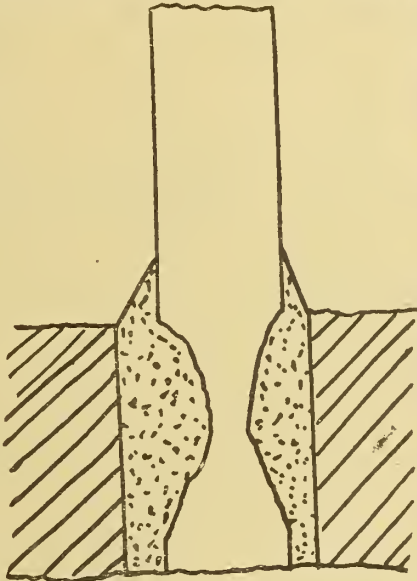


progresses more rapidly when this precaution is observed than when a rough and jagged surface is left. It frequently happens that, in order to obtain the best results in removing large branches, two cuts should be made—that is, the branch should be sawed off eighteen inches or two feet above the point of its origin in order to prevent splitting down and tearing off a considerable portion of bark. After the weight of the branch has

been lessened by cutting away the main part, a second cut can be made and the stub held in position until the cut is completed, thus preventing the splitting down and tearing of the bark, (as shown in accompanying illustration) which is likely to result from the careless removal of large branches. The evil results of splitting can frequently be overcome by cutting first on the under side of the limb and then upon the upper side, so that the breaking of the tissue occurs near the middle of the wound instead of at one side. When this is the case, tearing and splitting seldom occur.

Repairing Old Fence Posts with Concrete.

It is often found that a few posts in a fence, that is yet good, have rotted at the bottom, while the top is yet sound; these may be easily repaired



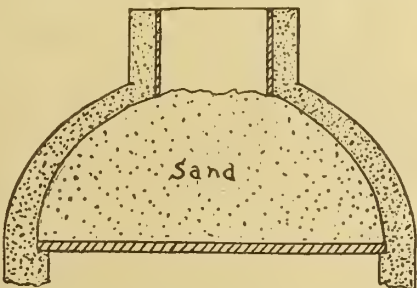
in the manner shown in illustration. A hole is excavated around the post to the depth of the decay and all rotten wood removed, a form of tin or wood is placed around the post and concrete filled in and beveled off at the top so that it comes well up beyond the decayed part of the post or above the surface of the ground. Posts repaired in this manner are in every way as good as an entire new post and will give as many years' service.

An Easy Way to Build a Concrete Arch.

Where it is desired to arch over a well or cistern, or any other structure the following method will be found of use.

After the wall is to the point where the arch is to begin or the skewbacks, lay a temporary platform of boards on the wall with the edges resting on same just enough to hold and no more; upon this pile up sand into the form the arch is to be made, and within about eighteen inches of the top of ground; upon this sand set a box form to mold the man-hole to the well.

Now plaster the concrete around



the sand and box form, in the manner shown in illustration; for all ordinary work it should be from three and one-half inches to five inches thick depending on the diameter of the well or cistern.

As soon as the concrete has hardened take out the sand with shovel, then the temporary platform may be removed and the work plastered on the inside. This form of construction may be employed in making a circular roof to a concrete silo, the man-hole finished as a cupola or ventilator to the silo, or the roof may be solid by arranging a door in the platform, and when ready to remove, let down this door and allow the sand to run out, when the boards may be removed.



WHEAT GROWING OUT IN THE UNION PACIFIC COUNTRY BEATS EASTERN TRUCK FARMING.

Two hundred acres of blue-stem wheat out in the Union Pacific Country—Oregon and Washington—will make a man rich in five years' time. Farming is a business out here, and the farmer does things in a big way. He uses an eight-horse gang plow that turns over a four-foot strip. Harvesting is done in the same big way, and the crop is worth from 75c to a dollar a bushel right where it is grown. Blue-stem wheat is essential to perfect flour blending, and as no other part of the country can raise such quality, it is a specialty in this region and brings from five to ten cents per bushel more than any other wheat.

Blue-stem wheat, raised in the Klamath Falls (Ore.) District, took two first premiums in the "World's Class" at the National Corn Exposition, Omaha, December, 1909.

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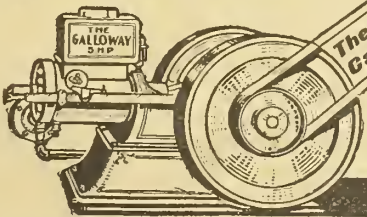
SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horse-power from a real engine factory. Save dealer, jobber and catalogue house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. I sell them direct to you for less money than some factories can make them at actual shop cost.

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An engine that is made so good in the factory that I will send it out anywhere in the U. S. without an expert to any inexperienced users, on 30 days' free trial, to test against any engine made of similar horse-power that sells for twice as much, and let him be the judge. Sell your poorest horse and buy a

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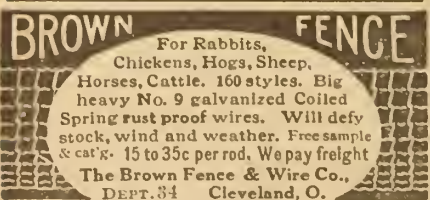


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MADE OF HEAVY WIRE. Sold to the user at Wholesale Prices. We pay Freight. Catalogue free. COILED SPRING FENCE CO., Box 20 Winchester, Indiana.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

FENCE LAW—MISSOURI.

A Subscriber, Lincoln county, Mo.—My neighbor and I own adjoining farms, and we agreed verbally to keep up a hog-tight partition fence between the farms, he to keep up the north half and I the south half. His part of the fence is now in such bad condition that I can no longer keep hogs in my field next to his land, as they go through holes in his fence into his field. He claims that as he keeps only a few hogs, and keeps them confined in a pen, he is only required by law to keep up a three-wire cattle fence, and if I keep hogs next to that fence I must either make it hog proof at my own expense or be liable for any damages my hogs may do him. What are my lawful rights in the matter?

Answer.—The law provides that every person owning part of a division fence, shall keep the same in good repair, and that upon failure to do so, the other party may have the same repaired at the cost of the party who has failed, and we are of the opinion that if your hogs should break into his field through his part of the partition fence while it is in the condition you state it to be, your neighbor could not recover damages from you by suit.

ADVERSE POSSESSION OF LAND.

A Subscriber, Boone, Iowa.—A and B purchased a farm from C about twenty years ago. C was then a widow with eight children, all of age. The widow and these eight children signed quit claim deeds to the land, conveying it to A and B. It now transpires that another child is living, who never signed away her interest as heir in said land. A and B have had peaceable and open possession of this land ever since they bought it, and have improved the property and paid taxes on it for twenty years. (1) Can this child now claim a share of the property? (2) In case she could do so, would her share be based upon what it is now worth with the improvements, or upon what it was worth at the time A and B bought it?

Answer.—(1) After A and B held peaceable and open possession of the land for ten years, claiming to own it, the ninth child that turned up could not, if she was of age, successfully claim a share of it; but if not of age, she is allowed one year after becoming of age to assert her claim. In other words, ten years of open, notorious, peaceable possession of land in Iowa, under claim of ownership, gives the possessor title by adverse possession, but the ten-year limitation is extended in case the claimant is a minor or under other disability, for one year after the disability is removed. (2) Based upon its value when A and B bought it, with the increase in value of the land, without the improvements since added and deducting taxes paid by A and B.

COMPENSATION OF TOWNSHIP CLERK.

A Subscriber, Clare, Iowa.—(1) What compensation is a township clerk entitled to out of the township funds? (2) As I understand the law a township clerk in Webster county, Iowa, is entitled to 5 per cent. Is this correct?

Answer.—(1) Ordinarily a township clerk in Iowa is entitled to 2 per cent out of the township funds coming into his hands by virtue of his office, except money received from his predecessor in office. (2) In townships having a population of 30,000 or over, and situated entirely within the limits of a city acting under special charter, the compensation of a township clerk is \$3 per day. In all other townships it is 2 per cent as above stated.

MARITAL RELATIONS—WISCONSIN.

A Wisconsin Woman.—Eight months ago I married a man who had two children by a former wife. I then had a little money of my own in bank, and my husband has tried to get it, but has not yet done so. I have never had but five cents from him. He is making my life miserable because he cannot get all my money. I let him have \$40 to help buy a wagon, and he got a cheaper wagon and kept the money. He is reported to have quite a sum of money. I have done all the sewing for the family, made butter from ten cows and done all the housework. He is getting ready to sell all the stock. I do not want to get a divorce on account of his little girls. I have no children of my own and my parents are dead.

I cannot see anyone without his knowing it. (1) Can I collect from him the wages he promised me before marriage? (2) Can I recover from him the \$40 I gave him?

Answer.—(1) You cannot recover wages from your husband for work done as a wife in the household. The law contemplates no such relation between husband and wife. (2) You can recover the money you gave him to use, unless you gave it to him as a gift or present.

PARTITION OF AN ESTATE.

Mrs. Irena Eggleston, Leigh, Neb.—My father died two years and a half ago, leaving 240 acres of land in Nebraska. There were three children of age at the time of his death, and one became of age shortly afterwards. My mother was guardian of the younger children. The four older children want their shares of the property. My mother does not need the property. Can it be divided before all the children are of age?

Answer.—The property can be divided at any time by a suit for partition, brought in the district court.

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15³/₄ cts. a rod
For a 26-inch high Hog-tight Fence. Made of heavy wire, strong and durable. Sold direct to the farmer on 30 DAYS FREE TRIAL. Special Lard wire, 80-rod spool \$1.55. Catalog free. INTERLOCKING FENCE CO., BOX 17 MORTON, ILLINOIS.

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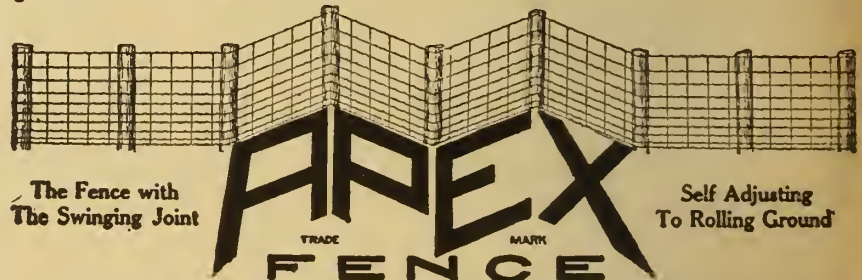
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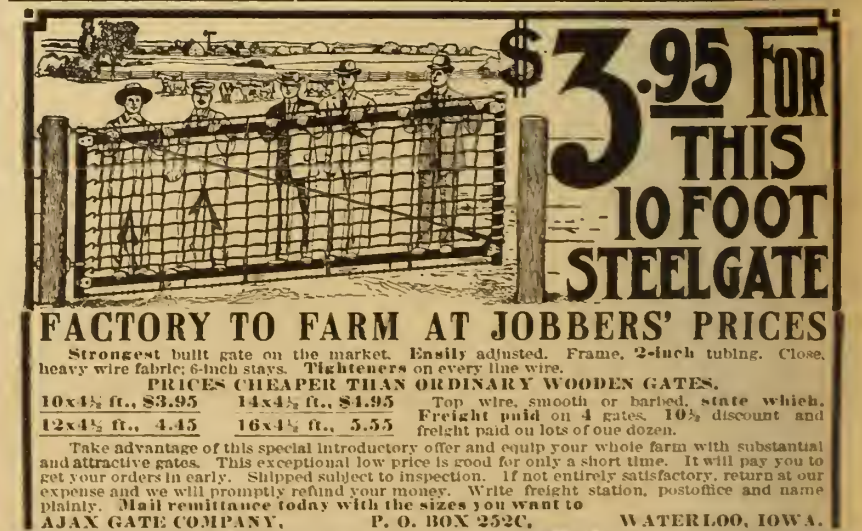
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The Fence with The Swinging Joint Self Adjusting To Rolling Ground

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Top wire, smooth or barbed, state which. Freight paid on 4 gates. 10% discount and freight paid on lots of one dozen.

Take advantage of this special introductory offer and equip your whole farm with substantial and attractive gates. This exceptional low price is good for only a short time. It will pay you to get your orders in early. Shipped subject to inspection. If not entirely satisfactory, return at our expense and we will promptly refund your money. Write freight station, postoffice and name plainly. Mail remittance today with the sizes you want to

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The children not of age will be represented in the proceedings by their guardian. Any heir can start the proceedings, but, of course, will have to employ a lawyer to attend to the matter. Your mother will be entitled to dower in the property.

LIABILITY FOR FLOODING LAND.
A Subscriber, Ottumwa, Iowa.—I own lands on both sides of a public road. The township trustees have caused the road to be so graded that during the heavy rains all my land on the west side of the road was under water which even flowed over the high road grade and flooded my land on the east side, coming almost into my house. I put in a twelve-inch tile from the west side of the road, and this takes about half of the water. I have asked the trustees to help dispose of this water, as they do not have so far to an outlet as I have, but they refuse to do anything. Have I any legal remedy?

Answer.—You cannot sue the township, but you can sue the officers for so grading the road as to flood and injure your adjacent land, and recover damages from them.

PARTITION FENCE—VIEWERS.
An Iowa Subscriber.—I bought an eighty-acre farm six years ago. My neighbor, who owns adjoining land, claims the middle eighty rods of the partition fence, which is all on high ground, part of it being a large hedge which robs my land of fertility for a distance of twenty feet. He claims that my part of the partition fence is forty rods at each end, which is located in large sloughs at both ends, where the water takes away the fence nearly every spring. (1) Can I have the fence divided in the middle? (2) Can I compel my neighbor to cut his hedge?

Answer.—(1) You can have the fence divided by requesting the fence viewers to meet and make a division between you and your neighbor. They have power to do so, and will assign to each the portion he is to keep in repair. You can by request have them also determine how and when your neighbor shall trim and cut back his hedge. Both these matters are proper subjects for the fence viewers to act upon.

ABORTIVE SOWS.
An Iowa Subscriber.—A sold at public sale thirty-five bred sows, guaranteeing them to be safe in pig. Before the day of sale two sows in A's herd aborted, and he substituted two others in the sale. C, D and E bought five sows at the sale, paying high prices therefor, and every one of them aborted in from two to five weeks after the sale. C asked A if he would do anything to make it right, and A replied: "The sows were safe in pig, as guaranteed, but you may return the sows to my herd boar for breeding, free of charge." (1) Would the fact that so many sows aborted be evidence that abortion was in A's herd, and give purchasers good grounds for recovering damages from A? (2) Would the guarantee, "safe in pig," render A liable in this case?

Answer.—(1) It would no doubt be circumstantial evidence that A's herd was affected by abortion, but this alone would not furnish good ground for a suit for damages. (2) The guarantee "safe in pig" would hardly render A liable in this case. The phrase "safe in pig" could not be construed a guarantee against future abortion.

PARTITION FENCE.
Mr. F. Bilderback, Earlham, Iowa.—A and B owned adjoining farms. A constructed a tight woven-wire partition fence at his own expense along the whole line between the farms. B refused to pay for his half and did not join to it. After the fence was finished B sold his farm, saying nothing about said fence to the buyer nor to A. The buyer now claims that he owns half the fence and wants to join to it, without paying for his half of it. Can he lawfully do so, and what legal rights has A in the matter?

Answer.—The buyer of B's farm does not own one-half of the partition fence. He can be compelled to pay for half of it. A should request the fence viewers to meet and decide the matter. It will be their duty when so requested to meet and examine said fence and estimate the value of it, and order the owner of B's farm to pay for half of it within a certain time, and also assign to each owner the portion of the fence which he is to keep in repair.

MORTGAGE—TAX TITLE.
A Subscriber, Albany, Neb.—(1) When does a mortgage become outlawed in South Dakota? (2) Is a tax title to land in South Dakota good? (3) In case the owner of land in South Dakota should move away from it, and another person would take possession of it and pay up the back taxes, and receive a tax title to it, and hold it under said tax title for six or seven years, could the former owner recover the land and compel the holder to pay for the use of it during the time he held it under his tax title?

Answer.—(1) In six years after the debt secured by the mortgage is

due. (2) If all the proceedings upon which the tax title is based have been regular and according to law, the tax title is good. (3) In such a case the former owner could not recover the land, nor compel the holder to pay for the use of it.

TAXATION OF PERSONAL PROPERTY.

A Subscriber, Chester, Neb.—A man resides in the state of Kansas, but has his money deposited in a Nebraska bank. Can the money be lawfully assessed for taxation in Kansas?

Answer.—The money can be assessed for taxation in Kansas. It is a general principle of law that personal property is taxable in the place where the owner resides, whether it be actually there or not at the time of assessment.

STUD HORSES.
A Subscriber, Fenton, Iowa.—Please publish the law of Iowa relating to stallions.

Answer.—When an owner represents his stallion to be pure bred he must have him registered in some stud book recognized by the department of agriculture at Washington, D. C., and obtain a certificate of such registration, which he must forward to the secretary of the state board of agriculture of Iowa, and obtain a certificate from him, and he must keep a copy of this certificate posted on the door or stall of the stable

where his stallion is kept. The owner of a grade stallion kept for public service must advertise his horse, by printed hand bills or posters not less than five by seven inches in size, and have printed thereon above or below the name of the stallion the words "grade stallion" in type an inch high, and must keep a bill conspicuously posted at every place where his horse is kept for service.

PASTURAGE—ESTRAYS.

An Iowa Subscriber.—A has a pasture fenced with four barbed wires drawn tight, and stapled to new posts sixteen feet apart. B, C and D turned cattle into said pasture and agreed to pay A therefor a certain price per head per month for pasturage while they should remain there. This contract was verbal, and no further contract was made between the parties. In July B took his cattle out, A assisting him to separate them from the herd. B was not positive as to the identity of one heifer taken, but said if C or D missed one, to notify him, and he would make it satisfactory. A telephoned D, asking him if any of his cattle answered the description of said heifer, and D answered "No." No one inquired about the heifer, and later B sold her to a butcher for \$25. In November C and D took their cattle away, paying all charges for pasturage. C found his exact number, but said one was not his property and refused to take it away, claiming one of his, which was a thoroughbred, was missing. B then asked C to come to his lot and select one as good as he lost, but C refused and demands that A pay him \$30 for the missing heifer. The heifer left with A is worth but \$18. (1) Can C hold A re-

sponsible for the missing heifer? (2) What should A do about the heifer left in his pasture which no one claims?

Answer.—(1) Under the circumstances set forth in the above statement C cannot hold A responsible for the missing heifer. A appears to be wholly without fault in the matter. (2) If A wants pay for keeping the heifer now in his pasture, the only way to get it, is to treat the heifer as an estray, post notices, make oath before a justice, etc., in the regular way of taking up a stray.

How to prevent Hog Cholera, Bots, Worms, Colic, etc., Make your own Stock Tonic. Free! RoC. Chemical Concern, Lincoln, Nebraska.

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EACH farmer knows what share the rest of his family has taken in preparing for the grain harvest. Also the responsibility that rests upon him alone to choose the machines which will give the greatest amount of grain from his fields for the cash market.

Think back to last harvest time. Did you get all the profit from your acres that should have been yours? Or through delays, caused by tinkering with broken-down or inefficient machines, did you lose valuable time? Did you get all the grain—tangled or down—or did your machine leave a part of your profit in every field? Ask yourself today. Did I get the best results possible from my harvesting machine last year, and if so is it in condition to give me the same service this year? If not—every waste in net results takes that much away from family comfort, happiness and prosperity.

Choose wisely then—take time by the forelock now—and be prepared to deliver 100 per cent from your fields to the thresher.

The harvesting machines which have stood the tests of over 50 years—are the six of the celebrated I H C Line.

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These machines have demonstrated the practical verdict of over a million farmers all over the world.

They are the best that most expert workmen and machinery and high grade materials can make them. They have been improved every year in every detail of construction, whenever it has been found that any improvement could be made. These machines are built to work successfully under the varying conditions found in the harvest field. If the grain is down and tangled the reel and platform can be so adjusted that all of the grain will be cut and bound much the same as when it is standing straight.

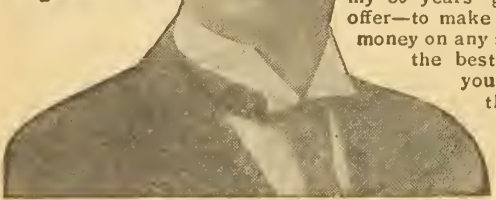
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SEND me your name—just tell me how many cows you milk, and I will write you my personal advice so you can try for 30 days free the best Galloway Bath-In-Oil Cream Separator to do your work—over 200 to 950 pounds capacity per hour, according to your needs.

Spend a cent now, this way, for a postal and you can just as easily save from \$25 to \$50 as not. Why pay more when for only \$33.50 and upward, I prepay the freight to you on 30 days' free trial—90 days' approval test, if you say so and give you my 30 years' guarantee? You cannot get a better offer—to make you more money or save you more money on any separator made—and I will send you the best separator in the world today and you can prove it without any salesmen there to talk you over. Why not send Galloway your name today and let me write you personally and send you my splendid, big, color-illustrated separator book right away.

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YOU can test the Galloway alongside of the highest priced \$85 to \$110 separators sold by anybody today—to prove that my new Bath-In-Oil principle is the greatest invention in separators in history. Gears run in oil like a \$5,000.00 automobile. Dust-proof—no oil-hole. Impossible to heat or wear or put out of commission the splendid mechanism which gets you the biggest profits—all the cream—all the butter fat. All gears enclosed—handsomest machine made (as you can tell below by the illustration), milk and cream spouts high for cans; lowest revolving milk tank, only 38 inches high; so no high lifting.

The Galloway is the easiest to clean, with few parts, which come out easy and cannot get back out of place; easiest to run; high crank; low tank; no high lifting and no "back breaking" cranking. Gets the finest cream qualities—and all of it. No lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down. Skims closest, in any climate or season, no matter whether your milk

is warm or cold. This handsome machine, compact and substantial, with beautiful finish, cannot be beaten at any price. And you cannot get my new Bath-In-Oil principle on any other separator. Remember, that this is most important. It proves to you why I can afford to give you a 30 years' guarantee because I know that the parts cannot wear this out—get hot—clog—or clash and put the separator out of commission like others do where you have to be remembering to oil them all the time. The Galloway is the only separator into which you can pour oil at the top once a month from your oil jug, or can, and have it oil itself without danger of running dry or ruining it like others. This costs you nothing extra—is worth \$50.00 more than separators built the other way. Remember, that I am an actual manufacturer—not a supply house, catalog house, dealer or jobber. You get the lowest direct factory price from me every time. Write me today for my big separator catalog and let me quote you prices that will astonish you.

Wm. Galloway, President

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Revolving Milk Tank Only 38 Inches High

Highest Crank

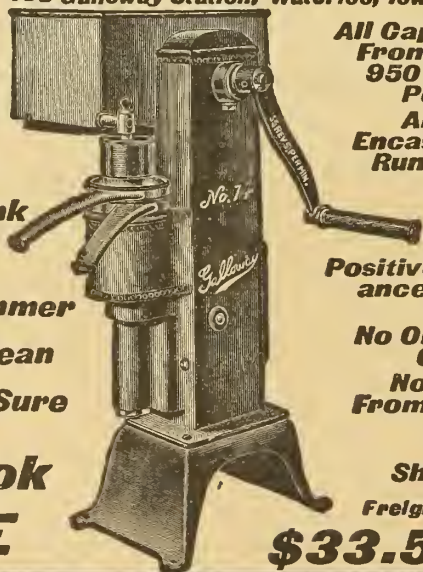
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We have a mighty interesting story to tell users of milk cans. You are interested—it concerns your pocket book. It is a story of money saving for every man who uses milk cans. It will cost you just one penny for a postal to write and give us a chance to tell you about the milk cans that stand rough handling—cans that railroad brakemen and draymen cannot bang up—cans that last more than twice as long as ordinary milk cans.

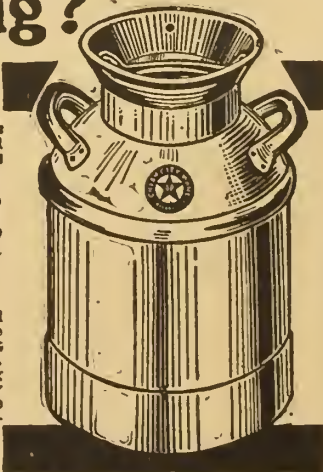
THE CREAM CITY LINE Atlas Can

The "Atlas" is the most substantial, the most sanitary and the longest-lived milk can ever manufactured. We have succeeded in making that kind of can without any great increase in weight, and without material change in price. Better can steel, better distribution of weight, better making—that's the secret of Atlas superiority and the superiority of the entire Cream City line of milk cans. We are more particular about the body of our milk cans than most manufacturers. We do not use light steel for the body and then make up weight by using hoops that are away out of proportion. We put strong, heavy can steel where it is needed, so the can will have a chance for its life when the can-smasher gets hold of it.

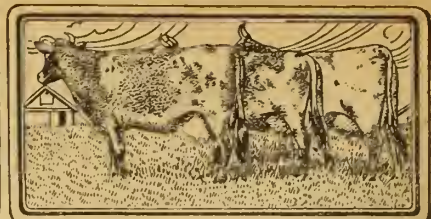
We positively guarantee the Atlas Can to have better materials, better distribution of weight, greater strength, to be as sanitary and to outlast any other milk can manufactured.

Do you find your milk can expends a continual drain on your profits? Then write for our book and see how you can more than cut that expense in two. Don't forget that we make the famous Cream City Jersey Dairymaid Milk Pail, and Galvanized Water and Stock Pails. All books free. Address

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ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE GUERNSEY GRADE COW.

To the Editor of The Homestead:

There is in every city a constantly increasing demand for high-class milk and by this I mean milk that combines cleanliness, yellow color and high content of fat and total solids. This demand is apart from the demand for certified milk which depends almost entirely upon its cleanliness for its market.

There are now hundreds of cities in this country where high-class milk is selling for eight, ten and even twelve cents per quart and produced under conditions that are no better than ought to prevail on every dairy farm. A large part of the milk that sells for these prices is produced by herds of pure-bred or grade Guernsey cows.

While the number of herds of pure-bred Guernseys is constantly increasing it will be a century or more before the number of pure-bred animals can be increased enough to fill the demand for cows for this use and will be infinitely longer before it will be done, and the bulk of the farmers who wish the ideal cow must depend on the grade Guernsey to get her.

The leading characteristics of the Guernsey grade are, of course, essentially the same as her full-blood sister and are as follows: She is first of all unusually quiet and gentle and therefore less excited by strangers or strange conditions than a more nervous cow. This point is worthy of more attention than it usually receives. She is almost universally an easy milker having teats almost ideal in size. She is of a size, weighing 1,000 to 1,200 pounds that at once appeals to the dairyman and while I consider size of much less importance than her other characteristics still she is universally liked on account of her size.

The Guernsey has so often proved herself the most economical producer of butter fat that it seems useless to talk upon this point, but I feel sure if the dairyman who is looking about for a breed to start dairying with would study this point of economical production as much as it deserves, there would be even more men turning toward the Guernsey than there are now. In our hurry to get big production of milk we often overlook quality and cost of production. The grade Guernsey cow will test for the year 35 to 55 per cent, varying, of course, in different individuals, but I think it safe to say that her milk will average 45 per cent butter fat, taking the yearly average of different herds.

The official yearly records of over 1,000 pure-bred Guernsey cows show that she averages about 51 per cent butter fat and as the Guernsey grades of the country are largely on Short-horn, Jersey or native foundation I am sure the estimate of 45 per cent will be below rather than above the average.

This would indicate a total solid content of about 14 per cent and milk plenty rich enough for ordinary use, and very much above ordinary milk. I think that the most convincing argument in her favor will be comments of some of those who have had her in their dairies.

Mr. Thos. Ellis, Marquette, Wis., writing under date of February 22, 1910, said: "The Guernseys have been very satisfactory with me; we milked eleven last year, four of them being but two-year-olds and they averaged us \$117.24 each. They are doing far better than any other cows in this community, and a number of the farmers are getting interested, and would change to Guernsey if they could buy. I regret now that I did not begin with them at an earlier date. I received \$104.46 from our

local creamery in January, 1901, for the milk of eight cows."

M. L. Wells, Fond du Lac, Wis., whose herd was in 1909 about half pure bred and half grades, tells me that from his herd of cows averaging about thirty-nine and one-half in number he received \$4,109 for the cream delivered at the railroad station, and this certainly indicates a very profitable return from so large a herd.

The individual record of some cows may be of interest. Elizabeth A., a grade sired by Coralman 3193, was dropped in May, 1895, and dropped her first calf in 1897 and her record for eleven years was as follows:

Year	Pounds Milk	Pounds Butter
1897	5,687	268
1898	7,750	400
1899	9,775	479
1900	9,400	504
1901	10,396	520
1902	9,713	554
1903	9,719	531
1904	10,247	571
1905	7,927	378
1906	9,740	539
1907	8,032	400
Total.....	98,377	5,145
Average...	8,943	467.7

These records are from January to January. One year she calved in September, and did not drop another calf for a year and a half and in twelve months she gave over 12,000 pounds of milk and 605 pounds of butter fat equal to 705 pounds of butter. She was owned by H. D. Griswold, La Crosse, Wis., and Mr. Griswold has

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Year in and year out they run without a hitch, ever making money, never making trouble.

- 1st. The U. S. skims the cleanest.
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The U. S. defeated all other Separators at Seattle on these five essential points and

WON GRAND PRIZE

If your dealer cannot supply you, send us his name and ask for Catalogue 81 just out. The best ever issued by any Separator company.

Vermont Farm Machine Co. Bellows Falls, Vt. U.S.A.

had many grade Guernsey cows make over 500 pounds of butter per year, and many years the returns from the creamery have been well over \$100 per ccw.

The demand for grade Guernsey cows far exceeds the supply and I have known many of them to sell in Wisconsin the last year or two up to \$100 each, and several up to \$125 each. There is surely a chance to make money raising and milking them.

Chas. L. Hill.

THE JERSEY TYPE.

To the Editor of The Homestead:

The articles on Jersey type in a recent issue of your paper were full of interest to me. Each one contained some very good and truthful points. For the good of the breed there should be only one ideal type. And that type, to my way of thinking, is the Island conformation with substance added to it. By substance I do not mean fat. Neither do I mean great size.

The first consideration of every breeder should be production. At the same time we want an animal that is pleasing to the eye. Give us a good-looking Jersey without the skinny, hide-sack appearance and without the coarse horn, hammer head, bumps, lumps and sloping rumps. Medium size, quality and substance is my idea of correct Jersey type.

D. W. Howie, Jr.

Elm Grove, Wis.

SELECTING THE DAIRY BULL.

To the Editor of The Homestead:

A large number of dairymen in looking for a sire to head their herd of dairy cows, want something cheap, the cheaper the better; anything that answers the purpose of freshening the cows. This is a very great mistake. It is important, in selecting a bull, to choose one from one of the dairy breeds, and he should be pure bred and have the best pedigree behind him that one can afford to buy. Where one is breeding cattle for the feed lot he pays a great deal of attention to the class of bulls used in his herd; but where he is using grade cows of no particular breed, and especially where his dairying is incidental to the business of growing grain for the market, the average creamery patron does not seem to give any attention to the selection of the sire to be used in his herd. Even many special-purpose dairymen fail to attach the importance to the selection of the sire which success demands.

Another great mistake made by many farmers who milk from ten to twenty cows, is that of selling their aged bulls before they know anything of their real value in a dairy herd. The man who is breeding cattle for beef can get a pretty fair idea of the breeding qualities of his bull the first time he sees his calf. By the time the calf is a yearling he knows his value. The dairyman, however, cannot have even an approximately correct idea of the dairy qualities of his bull until his heifer calves come in; nor has he any very definite idea until they have their second or third calf.

Many who have dairies of from ten to twenty cows have regretted bitterly that they sold a bull two years old; and some of them would give two or three times the price they received if they could only buy him back. They have found that the heifer calves of his get are uniformly good, have well-made udders and well-placed teats, are easy milkers, large milkers and continuous milkers; while their heifers from the bull they have bought to succeed him, at perhaps two or three times the price they secured for the old one, are deficient in some or many of these particulars.

Some farmers say that they dare not inbreed. Why not? Inbreeding has its dangers, but there is far less risk of damage to the herd by using a bull noted for the production of fine heifer calves on his own get, than there is in changing him for one of the qualities of which are unknown.

In creamery sections, however, there is no necessity for this inbreeding. If one keeps himself informed as to the milking qualities of the cows in the various herds, which he can easily do, if he keeps his eye out for a bull that is noted as the sire of heavy milkers, he can usually buy him when

for sale, or at least one of his get, at a very satisfactory price. The fact is, no bull that is noted as the sire of superior dairy cows should be allowed to leave the neighborhood until he is at least eight or ten years old.

In speaking of the characteristics of the dairy sire, so far as they can be learned from observation, I want the head and neck to be thin. I want him to have the same arched spine, and the same contour here as in the cow, and I want him to have four good, well-placed rudimentary teats. I lay much stress on the teats being well-placed, because the bull reproduces himself, and in nearly every case the teats of the heifers of his get are much the same as his rudimentary teats. A good milk vein is very essential. Take the loose skin at the flank and stretch it; if it stretches out long and flexible, it is a good indication of the udder on his heifers being large.

I want a good bull with good ancestry; the best I can secure; but should I get to a place where I must choose between a bull with a good registered ancestry performance, who is not himself a good specimen, and one who is a good individual, I had rather have the bull that has the record of performance every time than the one with no known ancestry, but a good individual. Keep a record of his milk strain and breed from that. A bull with an ancestry of producers will reproduce himself in his descendants.

In buying a bull I assume that one will confine himself to the breed that he has adopted. If grade Short-horns, I would certainly buy a pure-bred Short-horn or Polled Durham bull of a milking family, or, failing in that, then I would secure a Red Poll of milking type. If Holstein, I would not buy a Jersey bull; nor would I even cross the Jersey with the Guernsey, although these two breeds are very similar in their origin. I would never cross grade Short-horns with Holsteins, nor vice versa. I do not believe there is any worse craze that a man can take than the cross craze, or the foolish endeavor by crossing breeds to get the best points of both in the progeny. Once in a while it may be done, but the chances are the worst points will be obtained.

The bull is a very important factor in the herd, supplying half the blood of everything born into the herd; and if he is pure-bred and the cows only natives, he will then furnish at least two-thirds of the blood influence to all his offspring. It is the part of wisdom to use trouble and expense in procuring the best bull that can be secured, thus putting both money and labor where it will do the most good.

W. D. Neale.

RAISING THE CALF BY HAND.

To the Editor of The Homestead:

There are many farmers who are compelled to raise calves by hand each year. No doubt this very minute there are some farmers with motherless calves on their hands wondering what they will do with them. The farmer who has had no experience will no doubt get out of patience and wish the calf had died with its mother. He will be compelled to get along with the orphan as best he can, for up to the present there are no orphan asylums for motherless calves in our land.

Now, in the first place it is a good idea to provide a separate stall for the motherless calf. It will not be in the way of other stock and run the risk of being crippled, neither will it be following the farmer about as he does his chores. In the summer time a grass lot or enclosure with plenty of shade is a good place for a motherless calf. Teaching the young calf to drink is sometimes rather difficult. Here are a couple of methods that have proven successful. After the milk has been prepared in a pail, stick the fore finger into the calf's mouth and gradually lower your hand into the milk in the pail. The calf still tugging at your finger will suck the milk into its mouth and down its throat. By doing this awhile the calf will learn the location of its nourishment and will not wait for you to stick your finger in its mouth before taking the milk. A long nipple made of rubber may be secured at some drug store and used with a long-necked bottle. The calf will soon learn

THE BEST INVESTMENT ANY COW OWNER EVER MADE



That's what MORE THAN A MILLION COW OWNERS the world over have found the DE LAVAL CREAM SEPARATOR to be, after thirty years of separator use.

A DE LAVAL FARM SEPARATOR costs from \$40.—to \$175.—according to capacity. It saves butter fat and produces a cream of superior quality over any setting system or any other separator every time it is used,—twice a day every day in the year.

It involves far less labor than any setting system, and runs easier, has greater capacity and lasts from two to ten times longer than any other separator.

That's how a DE LAVAL separator saves its cost at least the first year, and frequently in a few months, and then goes on doing so right along for an average of twenty years.

So far as other separators are concerned they leave off where the IMPROVED DE LAVAL machines begin, and the DE LAVAL makers, with thirty years of experience in separator construction and development, have forgotten more about separators than all the others know. In fact it's what the DE LAVAL has forgotten and discarded that the others use.

That's what makes the DE LAVAL CREAM SEPARATOR the best investment any cow owner ever made, and an investment no cow owner can have sound reason for delaying to make.

And in buying a DE LAVAL machine you don't have to part with one cent until you have satisfied yourself that every word of all this is simple truth.

Any desired separator information can be had of the nearest DE LAVAL agent or of the Company directly.

THE DE LAVAL SEPARATOR CO.

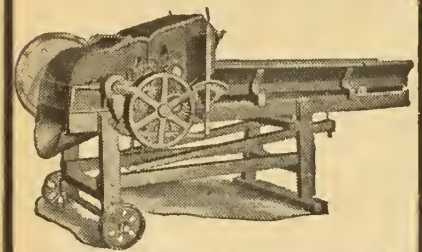
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AFTER many years of experience in the manufacture of Feed Cutters, we have finally succeeded in getting up a machine which is absolutely safe and our machine is constructed so it does not require a man to feed, as other machines do. It has a double apron arrangement. The top apron is made up of two rollers with a chain apron running over same which draws the fodder into the press roller. The bottom apron also runs over the roller. This makes a strictly self-feeder and there is no danger of getting caught in the feed rollers.



The Globe Safety Self-Feed Ensilage and Silo Cutter.

The knives are 16 inches long, and the machine can be reversed while in motion by a lever. The machine is strong and durable and without doubt is the best safety self-feed machine on the market. Our catalog fully describes and illustrates our full line of ensilage and silo cutters; also our globe stationary and portable gas engines, sawing machines, horse powers, etc. May we send you a copy? It's free.

Globe Foundry & Machine Co.,
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Unique Construction

Insures Solidity—Durability

We use 2-ft. panels of No. 1 quality lumber—every bad place cut out. These are tongued and grooved, dovetailed at the ends and put in sideways. It makes a silo tight as a drum and which stays that way. No shrinking, warping or twisting as in stave silos. All uprights in ONE PIECE. It saves the farmer and stockman pockets full of dollars to be able to get the

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THE BUSHNELL
NO LIFTING, NO ADJUSTING OF DOORS. Always in their proper place either open or closed. Safety Ladder. Features found on no other silo. Cuts your feeding cost in half. Pays for itself in a season. Write today for book telling all about it.
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ALUNDUM GRINDER
STEEL FRAME—FOOT POWER Fully Pat'd
With Emery Dresser, Grind, Mower Wheel Clamp, Alundum Wheels for sharpening Mower Knives, Tools, Saws, Disks, Saws, Skates, Etc. Alundum—the most wonderful sharpening substance known. So hard it cuts glass like a diamond, grinds ten times faster than emery without drawing temper. Price complete **\$9.50**
WESTERN IMPLEMENT CO.
295 Park Street Port Washington, Wis.

to nurse from the bottle. All utensils for holding the calf's milk must be kept perfectly clean and well aired. It is a good plan to scald them every day with boiling water into which has been placed a spoonful of soda.

The milk for the calf must be diluted one-half with warm water for a week or so. It may be gradually strengthened until the whole milk is given. It is a good plan if fed in a bucket to mix in some bran and shorts after a few weeks. The milk must be given about the temperature of a cow's milk when it is first drawn.

A Subscriber.

THE SIZE OF THE SILO TO BUILD.

To the Editor of The Homestead:

Many farmers meet disappointment by failure to plan a silo large enough for their needs, as well as of the proper strength to withstand the weight of ensilage and load of the walls.

The walls of a silo that is fifteen feet in diameter and twenty feet high should never be less than six inches in thickness, when reinforced with two strands of No. 9 wire at each foot of height; for absolute safety it is better to make the walls eight inches thick for at least the first one-third of the height. The same diameter of silo and thirty-five feet in height should have walls that are never less than nine inches thick, when reinforced each foot of height; no mistake is made when they are made twelve inches thick for the first one-third of height, for it must be borne in mind that there is a vast load to the walls alone of the concrete silo, as well as in the weight of ensilage.

In estimating the size of silo it must be considered that ensilage varies in weight, but a safe basis of estimating is forty pounds to the cubic foot and when a full ration is fed to an animal weighing from 900 to 1,000 pounds, it will require an average of thirty pounds daily for each animal.

Estimating from this basis you can plan the number of animals to be fed from the silo for a certain time and then construct a silo with the requisite cubic feet of capacity.

A. A. Houghton.

BOTTLING MILK.

Many people have the false notion that to produce clean milk the dairyman must have an elaborate and expensive equipment. Such, however, is not the case. The barns and other dairy buildings need not be expensive but they should be convenient, well lighted and well ventilated and great pains should at all times be taken to keep the barns clean and free from odor. The cow should be kept clean and in a healthy condition and the milkers should use great care in doing the milking. All these things done, the product will be clean and moreover will be economically produced which is very necessary if dairying is to be other than a pastime or fad.

To successfully continue a milk route with a select trade the dairymen find it to their advantage to add bottling plants to their equipments. On this page we present a sketch of it by the owner, Mr. R. W. Rowlands, of Waukesha county, Wis.:

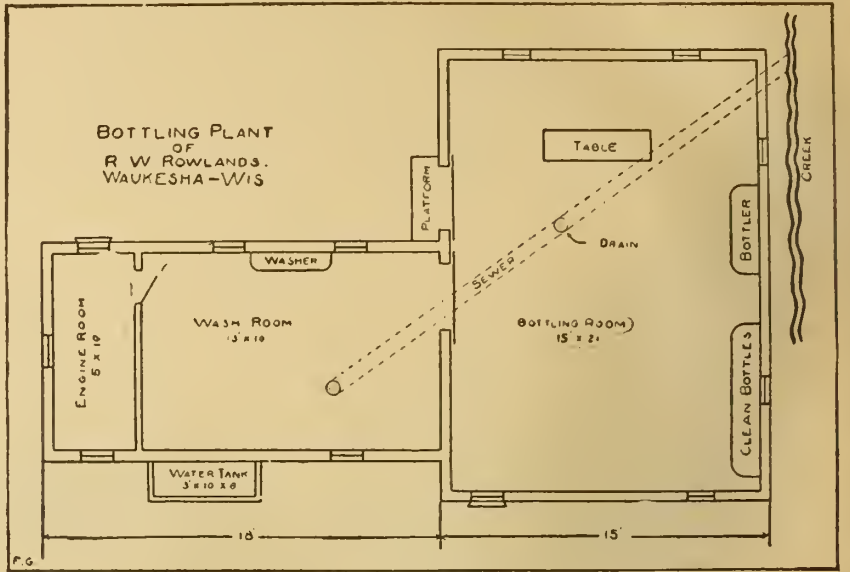
The frame of the building consists of two rooms, one ten by eighteen feet and the other fifteen by twenty-one feet which were formerly used as store houses and were remodeled within and converted into a bottling house. The walls within are covered with plaster, board and wood pulp with the exception of the ceiling of the largest apartment which is lathed and covered with wood pulp. The floor is made of cement with a three-inch concrete mop board rising a foot above the floor on all sides. This we find very practical, as so often when plaster board or lath runs to the floor it is kept wet continually and gradually decomposes or loses its tenacity, and instruments, cans, etc., are so apt to be jammed against it and through it.

In one end of the room which measures thirteen by ten feet and which we will call the wash room is a partition five feet from the end and making a room five by ten feet. A five horsepower steam upright boiler which supplies the power, steam and hot water needed in the bottling plant is kept in this room as is the steam pump which we will mention later.

Next is the wash room where stands the washer, which is a large galvanized tank standing at a convenient distance from the floor and between two windows that the men may have plenty of light when washing the bottles. On the washer stands the revolving brush turned by a turbine, the steam being piped from boiler. The bottles are

washed and placed upside down in wooden racks which just hold the bottles by the neck. The rack is a simple

body of the bottle to pass through. When a rack is full of bottles that have had the brush applied to them the rack



PLAN OF BOTTLING PLANT.

contrivance—just a board with twenty-four holes large enough to admit a part of the bottle, but not allowing the

is placed over twenty-four jets which are in direct connection with the boiler and a stream at first of hot water, then

We will give you this Separator if you can show us a better one

THIS IS NOT JUST TALK—IT IS A FACT:

If you can find any other separator that under the same conditions will skim to its rated capacity, as closely as the double cored IOWA we will make you a present of one of our machines.

An offer like that is more positive proof of genuine merit than any quality claim we could make. If we said

The Iowa Dairy Separator

is the best on earth, you would say, maybe it is and maybe it isn't. You would be generous enough to say that it was our baby and that we doubtless thought it the finest, but that didn't prove it.

But see if you can get any other separator manufacturer to make you this same proposition. If you can you will either get his machine or ours free of all cost. If you can't, you will know what machine is conceded to be the best by all manufacturers—men who ought to know.

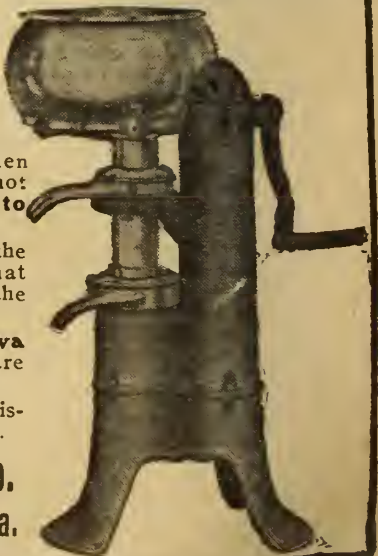
The Iowa actually does skim closer than any other. It skims cold milk to a trace. It is easiest to clean because the milk drains out of the bowl at the end of the run and water run through cleans it so that a piece of clean linen rubbed over the bowl any place will not show the slightest soil. It is easiest to turn and it is the most durable.

It is made by the largest factory in the world, and by the only factory that makes every part that goes with the machine.

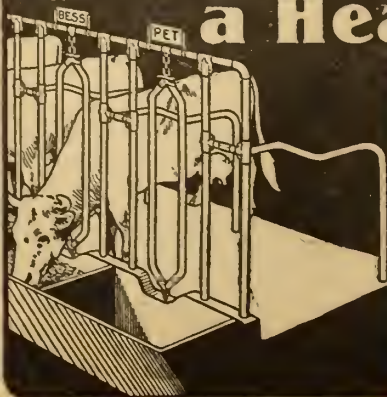
If your dealer does not handle the Iowa write us and we will see that you are supplied.

Write to-day for our book giving surprising inside information about separators.

Iowa Dairy Separator Co.
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Does the Cows a Heap of Good



Cow comfort and cow sanitation result in more cow profits, and that alone should induce any farmer or dairyman to seek these conditions. Loudon Sanitary Steel Stalls and Stanchions double the light and air in a barn and insure perfect ventilation, perfect sanitation—a result impossible with any wooden equipment. Yet

LOUDON STALLS AND STANCHIONS

are actually cheaper. Loudon stalls of heavy tubular steel, with malleable fittings, have no flat surfaces for dust to accumulate—easy to keep clean and almost indestructible. Loudon stanchions give cows more comfort than other makes, yet keep them perfectly lined up. Throat chains prevent cows from lying down when milking. Simple and very durable. Latch easily opened or closed with gloved hand, but can't be opened by animal. Send today for free catalogue of sanitary, money-saving barn equipment.

LOUDON MACHINERY CO. 609 Broadway, Fairfield, Ia.

of steam and then of cold water is allowed in turn to rush into the bottles while another set is being washed. The bottles are left in the racks and carried and stacked in a convenient place in the bottling room.

In the next room, known as the bottling department, is placed a twelve-bottle filler and a table where the seals are put upon the bottles. Near the building on the north side is the concrete water tank which is mostly in the ground. Water is supplied to this tank from a spring which flows by gravity through a line of pipes. Water is pumped from this tank by means of the steam pump before mentioned into two tanks, one over the bottling room and another over the wash room. Thus an abundance of water with pressure is supplied in both rooms.

To conduct this bottling plant one man is hired at \$30 per month. Seven dollars' worth of coal and one dollar's worth of oil is consumed on an average each month. Thus it will be seen that the bottling plant used on Cilmaean Farm is not prohibitively expensive. In this plant milk from two or three herds is bottled. The milk from the other farms is hauled to the plant in milk cans and the bottled milk is in turn hauled directly to the milk depot.

THE AMOUNT OF SALT IN BUTTER.

The proper amount of salt to use in order to impart a desirable flavor depends chiefly upon the market. Some consumers prefer a medium high salt content in butter; others, again, like butter which contains very little salt. The English market demands rather light-salted butter. In fact, this is the case with practically all European markets. American markets, as a rule, demand comparatively high-salted butter, as much as will properly dissolve in the butter. Parisian markets and some markets in southern Germany require no salt in it at all. The salt content of butter may vary between nothing and 4 per cent. Butter containing as much as 4 per cent salt is, as a rule, too highly salted. When it contains this much salt, part of the salt is usually present in an undissolved condition. Those who like good butter prefer butter that contains the salt thoroughly dissolved and well distributed.

The amount of salt to be added should be based upon the least variable factor. Some creamery men measure the amount of salt according to the amount of cream in the churn. While the box-churn and Mason butterworker were being used, many makers preferred to weigh the butter as it was transferred from the churn to the worker. The method mostly in use now, and to be recommended, is to base the amount of salt upon the number of pounds of fat. The amount of salt to use per pound of fat varies, therefore, according to the conditions mentioned below, and also according to local conditions. Usually from half an ounce to one and a half ounces of salt per pound of butter fat is most suitable. In whole-milk creameries the salt is often estimated per hundredweight or per thousand pounds of milk.

To get the butter salted uniformly from day to day is very important, as a small variation in the salt-content has a greater effect upon the quality of butter than has a small variation in any of the other butter constituents. A variation of 1 per cent and 2 per cent in the salt-content can very easily be detected by the consumer, while that much variation in any one of the other constituents could not be readily noticed.

The conditions upon which the proper amount of salt depend are: First, the amount and condition of moisture in the butter at the time the salt is added. If there is a great deal of loose moisture in the butter, more salt is necessary. This is due to the fact that the salt will go into solution in the water and be expressed during working. Secondly, it depends upon the amount of working the butter receives, and at what time the bulk of working is done, after the salt has been added. If the butter is medium firm, moisture in the form of brine is being expressed during the working. Consequently, the more butter is worked, up to a certain limit, the more brine is being expressed, and the more salt should be added to the butter. Third, the amount of salt to add depends also upon the size of the butter granules at the time the salt

is being added, and the hardness and softness of the butter. If the granules are very small and quite hard, they take salt with difficulty. The salt attracts also more moisture from these small granules than from larger ones, which will escape in the form of brine. If the butter is present in a rather soft, lumpy condition at the time the salt is added, and there is no water in the churn, very little salt is wasted in the form of brine, consequently less salt is necessary in the first place.

It is undoubtedly due to these facts that the salt content and the condition of salt in butter vary so much at the different creameries; they even vary considerably from one churning to another at the same creamery. If conditions are uniform in the creamery from day to day, the amount of salt to add to butter, and the amount of salt retained in the butter when finished, will be comparatively uniform.

It should be mentioned in this connection that butter made from very good cream should not be salted too heavily. Butter made from a rather poor quality of cream may be salted correspondingly heavier. This is due to the fact that the heavy salty taste covers some of the undesirable flavors in the butter. If the butter-flavors are good, they should not be hidden by a heavy salty taste. If the butter-flavors are poor, then it may be policy to partially cover them up with a medium-heavy salty flavor.—(McKay and Larson).

SUBSCRIBES TO HOMESTEAD FORTY-EIGHT YEARS.

(Continued from page 7.)

the progressive farmer whether he will receive about three dollars apiece more or less for his hogs than his less-thinking neighbors. The cost of making a hog weigh over two hundred, instead of a few pounds less, is a mere trifle and we are surprised that farmers themselves should be so blind to their own interest in this particular as to give occasion for such losing rules against small hogs and suffer also the loss sustained by such rules."

As the years passed, Mr. Smith added to his farm until he owned 320 acres and had one of the finest stock and dairy farms in the country. Five years ago he sold it and moved to California, having decided that a man who had made as much of a success of farming as he had was entitled to a rest and to spend his declining years in ease and peace. But a man who has been in the harness as long as he had is not content to change his business or to have no business, so that Mr. Smith writes back to the home folks that sometimes he gets homesick and wishes he had remained on the farm, notwithstanding the West is a pleasant place and farming is easier there than in the corn belt. The Iowa Homestead still goes to Mr. Smith as a visitor from home, and will continue to visit him so long as he lives.

When Mr. Smith began to take The Homestead the country was in the throes of the greatest civil war the world has ever known. Agricultural conditions were chaotic. Since that time Iowa has forged ahead until it is no longer the agricultural frontier, but is the very center and heart of the richest farm section in the entire world. The new science of agronomy has arisen and methods which sufficed when Mr. Smith began farming have been supplanted by scientific and sure methods. During all this time The Homestead has gone on in its task of preparing the latest and most practical agricultural advice and information, regardless of wars, political revolutions or anything but the welfare, profit and material comfort of the progressive farmers of the granary of the world.

"Give children plenty of pure sugar, taffy and butter scotch and they'll have little need of cod liver oil," says Dr. Woods Hutchinson. "In short, sugar is, after meat, bread and butter, easily our next most important and necessary food. You can put the matter to a test very easily. Just leave off the pie, pudding and other desserts at your lunch or midday dinner. You'll be astonished to find out how quickly you'll feel 'empty' again, and how 'unfinished' the meal will seem: You

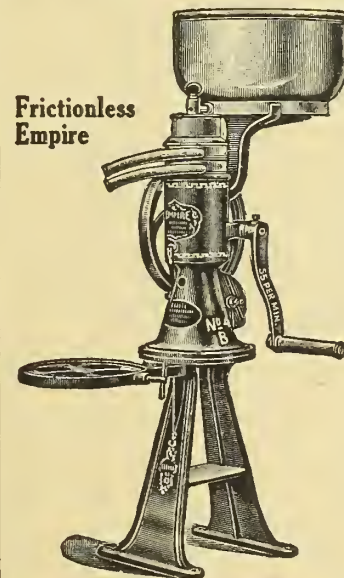
can't get any workman to accept a dinner pail without pie in it. And he's absolutely right. The only thing that can take the place of sugar is beer or wine. It is a significant fact that the free lunch counters run in connection with bars furnish every imaginable thing except sweets. Even the restaurants and the lunch grills attached to saloons or bars often re-

fuse to serve desserts of any sort. They know their business. The more sugar and sweets a man takes at a meal, the less alcohol he wants. Conversely, nearly every drinking man will tell you he has lost his taste for sweets. The more candy a nation consumes, the less alcohol."

Ask your neighbor to subscribe for The Homestead.

All Empire Users Get Quality Prices For Butter Fat

THE hundreds of thousands of cow owners who are using Empire Cream Separators are taking first grade cream or butter to market, getting top prices, making largest profits. Ask any of the prominent creameries or some of the Empire users in your district, whose names we will send you.



Frictionless Empire

Here's the reason: Empires are *sanitary* separators, so easy to keep clean and perfectly sweet that no taint of old cream or milk ever remains to spoil the next skimming. Both the Frictionless Empire and the Empire Disc have simple skimming devices, free from notches, corners, grooves and slots. Every part is get-at-able.

Empires furnish the smoothest, most velvety cream, too, because the simple bowl doesn't break up the butter-fat globules. The separators with complicated bowls, having nooks, corners and crevices, cost dairymen thousands of dollars a year in profits lost. Avoid these. Make up your mind to market *quality* cream. There's where the profit is. Make up your mind to get the work and time saving separator also—the easy to turn, easy to clean Empire.

The Empire Line of Sanitary Cream Separators Makes a New Record

Forty per cent more cow owners chose Empires last year than in any other year of their long, successful history. No other separator of any price or style even approached this great increase in demand. It simply proves that the dairymen of America are realizing more and more how much *quality* counts in a separator and that they are investigating more carefully before they buy.

And Dairy Commissioners in various states have been making the rules of *cleanliness* more strict. That's another reason why more cow owners are turning to the Empire.

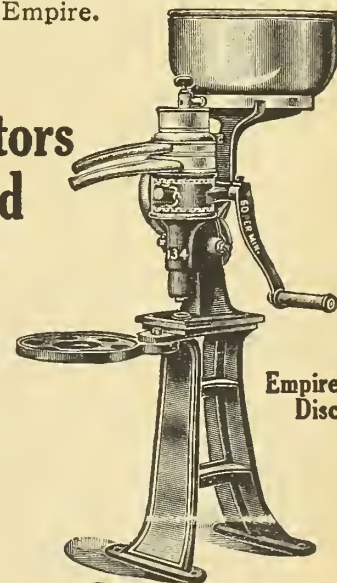
Different Styles—Widest Choice Longest Service—Most Dollars

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These Mammoth Bush Limas represent the latest and highest achievement in bean culture. They are a distinct new creation of enormous size, extremely early and prodigious yielders. No other Lima can compare with them. Either green or dry they are tender, rich and buttery—possessing the exquisite "Lima" quality in the highest perfection.

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Delicious
Quality
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Mammoth Bush Limas are marvels of earliness and productiveness. Not to plant them would be a distinct loss. I want every reader to grow them—and also get up clubs among their friends.

BIG MONEY can be made growing these beans for sale. Let your children have a good sized patch—and all the money they can get from it. **IT WILL PAY**—(and help make them love the farm—and you). **This big offer will not appear again.**

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Large 2 Ounce Packet 10 cts.—3 for 25 cts.—12 for \$1.00. 36 Pkts. and a beautiful jeweled Watch (Ladies or Gents) all prepaid for only \$3.00. All should get this splendid Watch.

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Order at Once. My new Seed Catalog (full of big bargains in Seeds and Premiums) also Premium Coupon will accompany the seeds. Club Agents wanted at every Postoffice. My terms beat the world. No agent for anything, anywhere should miss it.

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I OFFER for sale as long as it lasts: 3,000 bushels 1908 Reid's Early Yellow Dent; fancy ear seed in crates, \$5 per bushel; shelled and graded, \$4 per bushel. 2,000 bushels 1908 Iowa Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 5,000 bushels 1908 Dakota Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 1,000 bushels Early Yellow Maroon; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. This corn has been carefully saved from the year before, in well-aired and ventilated cribs, and I **Positively Guarantee** every bushel to test 90% or better, and I believe it will test over 95%. All my corn is raised within 15 miles of Elk Point, South Dakota, and is ten days to two weeks earlier than southern-grown corn of the same varieties. My Guarantee: Every bushel good or every bushel back. I have good 1909 seed corn also. Write today for circular and samples.

L. N. CRILL SEED COMPANY, ELK POINT, SOUTH DAKOTA.

SEED CORN Carefully Selected PURE BRED

PETTY'S EARLY DENT--YELLOW
PETTY'S ECLIPSE--YELLOW
CLAY COUNTY WHITE

WE ARE FARMERS---NOT DEALERS



From our fields that last year produced 75 to 90 bu. per acre of sound corn. It stands the test and our guarantee is behind this test.

High Grade, \$2 per bu.; Extra Select, \$2.75; Crated Ears, \$4.

Petty Bros., Box 4, Liberty, Mo.

SEED CORN

Guaranteed first class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. J. B. Armstrong & Son, Shenandoah, Ia.

Moore's High-Yielding Strain of Reid's Yellow Dent Seed Corn

MEANS 10 to 25 bu. increased yield per acre wherever planted. We have a limited supply of extra fine ear seed, selected early and showing very high vitality test, and we offer it while it lasts at \$4 per bu.; 5 or more bu. at \$3 per bu. Sold only in ear, subject to approval and test, and guaranteed to test 94% or better, or money refunded. Send order at once to C. MOORE & SON, KELLERTON, IOWA.

SEED CORN

We are the exclusive agents for H. J. Goddard's "SILVER KING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern-grown seed corn. Clovers, timothy, alsike, mixed timothy and alsike, "primost" wilt-proof seed flax, garden seeds, etc. Catalog free. THE ADAMS SEED CO., Box 1, Decorah, Iowa.



THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

THE PRESERVATION OF FENCE POSTS.

The decomposition or rotting of fence posts is caused by the action of certain low forms of plant life which are technically called fungi. All methods of treatment, such as charring, painting and dipping, are for the prevention of the development of these little organisms. The United States Department of Agriculture has had a corps of men experimenting with the different preservative solutions. After several years of experiment and investigation these men have made certain important discoveries and, in a recent bulletin published by the department, offered a number of recommendations and suggestions for the preservation of timbers.

Many farmers have charred their posts for years and almost without exception have been able to report satisfactory results. A limited number have installed treating tanks and have found that they could increase the lifetime of their posts by boiling them in certain oil solutions. The only trouble with this method has been that it is somewhat expensive and that it requires the expenditure of much time and labor. Mr. Richard E. Tanner, a prosperous Winnebago county, (Wis.), farmer, has for several years been treating his fence posts with a lime solution. Following is given a description of his plan:

I mix lime with water to the consistency of whitewash, using a barrel to mix it in. (I think a trough or triangular tank would be preferable.) Dip the posts into the solution up to as far as a foot above the ground line. If the solution can be kept hot, so much the better. Tamarack posts thus treated for five minutes have been in continuous use for ten years, and are sound now. The posts are in black marsh soil which is a part of the time under water.

The results obtained by Mr. Tanner are certainly most gratifying. Tamarack is not generally recognized as a good timber for fence posts and yet this farmer has been able to coat his posts sufficiently with a lime mixture so as to preserve them in good shape for ten or more years. His experience should encourage other farmers to try some method of treatment for the preservation of posts. Good posts are too expensive these days to permit of careless or indifferent handling.

GARDEN PLANS.

A good and successful vegetable garden must come first in ripened plans in the mind. In no undertaking is it more important to be sure you are right before you go ahead. Selecting or making the right soil, convenience to the house, form of the plat for economical working must all be considered. Let the soil be rich and well-drained, for heavy, sour land will never do. If it has an admixture of sand all the better, but the liberal application of manure, making it very rich in humus, is the next best thing. If you can secure wind protection by groves, or hedges on the north and west, not too near, they will be a great help. Whatever the amount of space you wish to use, let the plat be twice as long as it is wide.

This is for convenience of horse culture. No one can afford to grow crops with hand labor, when the strength of the horse may be applied, with such an immense saving of time. Wheel hoes have their place in working such fine crops as onions, but for the great majority of vegetables, it is best to allow space enough, for the use of the horse. What you may sacrifice in the possibility of growing more by thick planting, you will more than save by economizing labor.

If you are puzzled what to plant, remember that there are certain staples, and the other things have only a relative value. Let us suppose that sweet corn, and potatoes being

field crops are not to find a place in your vegetable garden. Neither are berries to be considered, for they go to the fruit patch. Then you have cabbage, tomatoes, peas, beans, parsnips, turnips, beets, etc. These may well take up two-thirds of your space. The balance will be sufficient for cukes, melons and squashes.

PRUNING HEDGES.

A reader at Eau Claire, Wis., sends a clipping from an ornamental hedge, wishing to know the name of the plant, and the proper time for trimming. The plant is of the Juniper family, the white cedar, or more commonly known as the arbor-vitae which means living hedge. It is very hardy, being perfectly at home all over our northern states, and is without doubt the best thing we have for an ornamental evergreen hedge. By clipping, it may be grown in any desired shape, the hedge may be kept high or low, broad or narrow, conical or pointed. Also, specimens planted singly, may be shaped according to fancy into vases, tables, chairs, baskets, urns, or a dozen other forms as one may have patience and love for the work.

The best time for pruning is June, when the rankest growth is in progress. Then the rough edges left by the shears will be soon covered, and there will be time later to clip again the unruly shoots which grow too fast, and maintain the desired form. The best way of managing the arbor-vitae is to begin the shaping when it is young, and follow up your plan, year by year. You may accomplish much better results in this way than to leave it to run wild for several years, and then undertake to bring it into form.

Tastes differ as to the best form. When the hedge is solely for ornament, the flat top, about two feet wide, and the same height is very good, and is kept in shape with the least work. Some prefer it a little narrower, and taller with an oval top. There is room to indulge the individual taste, and the hedge will still do well.

THE CATALPA GROVE.

A subscriber asks advice about the treatment of his one-year-old catalpa grove. The seedlings were set three feet and a half each way. This was too close planting for permanent good results. There are two courses open to you. You may let the trees grow for three or four years, (at which time the poles will be large enough for use) and then cut out every other tree. Or you can remove half of them now, making a new plantation. If the latter course is followed, we advise planting rows of corn or potatoes in place of the removed trees, and giving thorough culture. This culture should be given, even if you decide to leave the trees as they are for the present.

You will find the trees will thrive well, and when four years have passed, it will require nerve, courage, to go in and chop out half of the saplings. But it should be done. For even though it may not be readily apparent, the dwarfing influence of crowding will be already at work.

As to pruning, do that in the early summer. In order to get good shaped trees, the trimming should be faithfully done for the first few years, but after that they will care for themselves. If left to their own sweet will they will make very scraggy, unsatisfactory trees. And this is especially so if they are planted upon dry upland. We would by all means select moist, rich soil for the catalpa. If it is given that kind of soil, and good care, no variety of forest trees will be more remunerative, in a short time. But if all these conditions are

reversed, the result will be disappointing. In buying catalpa seedlings, make sure so far as you can, that you are getting the Speciosa. In too many cases, cheaper and worthless kinds are substituted. Insist upon having a written guarantee from your nurseryman that the trees you buy are right.

RAISING CONIFEROUS TREES FROM SEED.

The land selected for sowing the seed should have a light, porous surface soil, preferably underlaid with a moist subsoil that will not dry out easily. It should be so located as to have good circulation of air over it, that the plants may dry off quickly after rains, and it must be so shaded as to keep off about one-half of the sunlight. This latter permits a play of light and shade over the bed all day, and is about the condition under which we find nature raising such seedlings where trees partially shade the ground and protect them from the constant rays of the sun. In practice we aim to secure these conditions as follows: A piece of well-drained, rather sandy soil in an airy place is selected and laid out in beds four feet wide. In May the seeds are sown rather thickly (about three good seeds to a square inch) either broadcast or in rows, and covered with about one-fourth inch of sandy loam and then with about one-fourth inch of clear sand. Some of the small seeds, like those of white spruce, should not be covered more than one-fourth inch. Before the seedlings break the ground, a framework at least three feet above the beds is made and covered with laths, laid about one and one-half inches apart, running north and south, or with sufficient brush to shut out about one-half the sunlight. If the bed is very much exposed to the winds it should have similar protection on all sides. In such a place as this, or in woodlands where these conditions can be fulfilled, evergreens can be raised with much certainty, while if planted in the open ground most kinds are sure to fail.

The most common cause of failure with those who try to raise evergreens is what is known as "damping off," which occurs only while the plants are growing rapidly the first year. In such a case the seeds start well, and the seedlings grow vigorously for a short time, or until we have a spell of damp weather, and then die off with great rapidity. It seems that the sunlight and the mud that has been spattered on the plants so weaken them that they are liable to disease. For this reason we shade the bed and cover with sand, which will not allow the mud to be spattered over the seedlings, and in very moist, warm weather we occasionally apply dry sand to dry off the plants. For most kinds of conifers the shade is required for at least two years.

Most of the coniferous tree seedlings grow very slowly when young, seldom making a growth of more than two or three inches the first year. The most rapid growing of our pines seldom produce a growth of more than sixteen inches in four years, and should not be moved to their permanent place until about this time. They should, however, be transplanted from the seed bed to a temporary place when two years old, to prevent crowding and to make a compact root growth.

On the approach of winter, the beds of coniferous seedlings should be covered with about three inches of straw or leaves, evergreen branches, or other material that will afford protection from the sun and from alternate freezing and thawing. This should be removed in the spring after all danger from drying cold winds has passed.

Most of our tree seeds should, in good soil, be covered from one-half to three-quarters of an inch; but this is rather too much for such small seeds as the birch, alder and cottonwood, while the black walnut, native plum, acorns and other large seeds, and seeds of box elder, ash, soft maple and basswood may often be covered two inches to advantage if the soil is somewhat dry. It is a good rule not to cover any tree seeds deeper than is necessary to secure permanent moisture, and on wet or heavy land only a very thin covering is desirable. If the land is very heavy, it is a good plan not only to cover lightly, but to

sow more thickly than usual, as a large number of seeds may be able to push up through the surface soil when a few would fail to do so.—(American Forestry.)

A HIGH SCHOOL BOY AND A PICKLE PATCH.

To the Editor of The Homestead:

The following data shows the expenses and returns from a half-acre pickle patch to which I devoted my energies during the summer of 1903:

Rent of land.....	\$5.00
Plowing and harrowing.....	1.75
Extra picker, two days.....	2.50
	\$9.25

The small tools, horse manure, etc., were obtained at home, so there were no extra expenses. Because of the short distance to the factory the cost of hauling was very small. Returns: 117½ bu. of "pickles" at 50c....\$58.75 58 bu. of "culls" at 10c..... 5.80 \$64.55

School was out about the middle of May and I had until the middle of September, time that I must spend in town. As a few of the other boys did that summer, I rented about half an acre of land near town and raised pickles. There was a small pickle factory here which furnished a market for the product. "Pickles" were also shipped in from some of the surrounding towns, so the industry was not entirely local. Being on the river bottom, the soil was rather sandy and quite well adapted to pickle raising. On May 26th, a nearby farmer was hired to plow the ground. The spring was still a little cold and consequently the planting was delayed a few days. About the 1st of June, the ground was harrowed three times, which left it in a soft, mellow condition. With a small garden plow lines across the garden both lengthwise and crosswise were run. These lines were eight feet apart and where they crossed a hole was dug with a spade, one foot square and a foot deep. In the bottom of this hole was placed a small forkful of well-rotted horse manure which had been obtained from a small barn at the edge of town. Over this manure was put three or four inches of soil, and on this scattered six or eight cucumber seeds. After the plants had reached three inches in height, all but the three strongest were removed. These seed had been furnished by the factory because they wished a uniform product. The seed were covered about an inch in depth. Care must be taken not to put in too much manure, because of the danger of "burning up" the plants. From now on the soil was well cultivated with hoe and hand plow. When the plants were

about two weeks old they were bothered some with the squash bug but not enough to do serious injury. About the 20th of July small cucumbers began to form, and by the 27th half a bushel had been obtained. For two weeks there was a gradual increase until from six to eight bushels of "pickles" and "culls" per day were obtained. All cucumbers under three inches in length were sold as "pickles" and those from three to five inches as "culls." Cucumbers over five inches in length were not accepted at all. By the best of pickers a few cucumbers are always left, which in a day or two become too large for pickles. Half an acre is about all one good picker can handle—it, of course, depending on the season. This is at least true for the average season. The work is hard because of the stooping position that a person must continually be in. Some boys, because of their ability to move about handily, will do as much as a man. Picking continued until about the 10th of September, when the pickles became few, and a frost put an end to operations.

Cucumbers must not be planted until the ground is warm. They need also, especially in sandy soils, an occasional shower, and plenty of warm weather. The year of 1903 was about an average season for pickles.

As a result of my summer's work my wages for about forty days of actual labor were \$55.40, or \$1.37 per day. For a high school boy that summer's work meant better health and spirits, more money, and a much better appreciation of the value of money. S. Dakota. S. Garver.

TOO MUCH WATER FOR STRAWBERRIES.

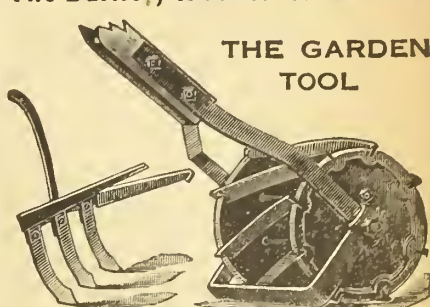
To the Editor of The Homestead:

A subscriber from Jackson county, Wis., sends the following:

I have attempted to raise strawberries on about five acres of my land and find that they do not do well. The soil seems cold during the first part of the season and I am inclined to think that this condition would be helped by drainage. Can you give me some information that would be of value?

It is not at all uncommon that sandy land should be in need of drainage, because frequently there is an almost impervious layer at a depth of from two to four feet below the surface which prevents the removal of water. Thorough drainage tends to raise the soil temperature in three different ways: (1) It lessens the amount of water that is to be warmed up by the sun's rays in the spring. (2) It lessens the amount of water that is to be evaporated and to that extent conserves the heat that would other-

The Barker, Weeder & Mulcher



Easy to operate. Push it like a lawn mower. Does the work of ten men with hoes. Buy it and cultivate your garden in a few minutes. The lower knife running straight across, runs under the ground, cuts off the weeds, the reel disks up the soil forming a mulch which kills the weeds and holds the moisture to feed the plant. Ask your dealer for it, or write

BARKER MANUFACTURING CO.
David City, Nebr.

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Does perfect work. Fully guaranteed. Write for illustrated catalogue of Diggers, Pickers and Sorters. THE HOOVER MFC. CO., Box No. 41, Avery, Ohio. Transfer points—Buffalo, N. Y.; Detroit, Mich.; St. Paul, Minn.; Marshalltown, Ia.; Idaho Falls, Id.; Portland, Ore.; Spokane, Wash.; Winnipeg, Man.; Hamilton, Ont.; Fond du Lac, Wis.

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A GEM among flowering trees: A theme for poets, Extra hardy, flowers double-shell pink, delicious wild crab odor. We give it and our beautiful illustrated Nursery Catalog FREE. A QUARTER OF A CENTURY in Sioux City! In its honor we make a grand offer to all customers. Four beautiful plants: Bechtel flowering, CrabGrand Paeony, two rare vines, six superb Cannas. Too good to miss. Catalog tells all about it, and how to plant, prune and care for trees. Most complete line EXTRA HARDY NORTHERN GROWN trees, shrubs, vines, bulbs, roses, perennials, paeonies, etc., in the northwest. Quality the best. Prices right. Write today for catalog 25. SIOUX CITY SEED & NURSERY CO. Sioux City, Ia.

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Destroy the fungi and worms, and thus be sure of large yields of perfect fruit. Excelsior Spraying Outfits and Prepared Mixtures are used in large orchards and highly endorsed by successful growers. Write for our money-saving catalog, which also contains a full treatise on spraying Fruit and Vegetable crops. WM. STAHL SPRAYER CO., Box 103 D Quincy, Ill.



Name Our Nameless Corn!

\$500.00

To The Person Who Does It

Fire in a corking good name to-day.

Nobody will be given preference over you in this contest—but you should enter at once. The only person who has no chance is the one who stays out. If you know a good name, don't keep it to yourself! Give it out! Tell us—what shall we name the most remarkable of all breeds of seed corn?

It will be a year before the Nameless Corn goes on the market, you know. It is now too precious to sell; too precious to have any but the very best name given it. Such a name will be worth many dollars to us. And that is why we agree to pay you well to name the "Nameless" Corn. We are making a business proposition to you.

Write us to-day, sending a name for the corn. Costs nothing to be a contestant. If you want to see the new corn, enclose 4c and you will receive a generous sample. Should the same winning name be suggested by more than one person, the prize will be equally divided. Act now. This is your last and only chance to name the "Nameless" Corn. Catalog Free.

JOHN A. SALZER SEED CO.

124 S. 8th St., LaCrosse, Wis.

You can't get \$500 in Gold unless you act at once! Another week's delay and your chance to enter this big Corn Naming Contest will be almost over; the \$500 in Gold will go to some other hustling fellow, instead of you—probably because you have not sent in the name you thought of.

Take NOW the first step toward getting \$500 by suggesting a name for our Nameless Corn. Talk the matter over with your folks and friends. A \$500 gold prize is worth trying for. Win the prize!

Salzer—America's Leading Seedsman

You ought to use Salzer's reliable farm and garden seed, sure, this year, because Salzer's seeds are wonderfully productive. Salzer many years ago saw the desirability of selling only tested, reliable seed. A package of unsatisfactory seed, selling for a few cents, may do many dollars worth of damage to any Seed House—it would do much greater injury to a House of 35 years known reliability, like Salzer's. Buy your Seed Corn, Oats, Potatoes, Clover—all your farm and garden seed this year from Salzer. You will get better seed and fair treatment—always.

When you get the Salzer Seed Catalog, be sure to read about SALZER'S REJUVENATED WHITE BONANZA OATS, pages 101-102. Over 300 bushels to the acre! The surest, biggest profit-maker in Oats. Catalog tells. Get the grand 1910 Salzer Seed, Plant and Tool Catalog to-day. This is your last chance to get the \$500 in gold free.

THE PRIZE WILL BE AWARDED MAY 10th, AND NAME OF THE WINNER PUBLISHED IN THIS PAPER. WILL IT BE YOUR NAME?

1,000 Bu. Reid's Yellow Dent SEED CORN



WHICH we guarantee 95 per cent to grow. We will give any person ten days test, and if germination is not up to guarantee, we will take corn back, pay the freight and refund the money.

\$3.00 PER BUSHEL

f. o. b. Peoria, sacks included.

STOECKER SEED CO., Peoria, Illinois
Mention The Homestead when writing

ONE MILLION GENUINE SPECIOSA CATALPA GIVEN FREE TO ADVERTISE THE GENUINE SPECIOSA CATALPA.

WRITE for this offer and enclose 2c. stamp for our new 34-page illustrated booklet on Speciosa Catalpa growing.

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J. Moncrief, Pres. Winfield, Kansas.

EVERGREENS

38 Hardy Tested Varieties

Nursery grown, suitable for all purposes, \$5.00 and up per thousand. We have 50 millions. Our low prices will astonish you. Also Hardy Forest trees, Shade, Ornamental and Fruit trees, Shrubs, Vines, etc. Our beautiful Catalog is crowded with valuable information. This and 50 Great Bargain sheets are free.

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TREES

Fruit, Ornamental and Evergreen trees: Shrubs, Roses, Vines

Everything in the Nursery Line.

Beautifully Illustrated Catalogue and Price List Sent FREE

Special: 45 Concord Grapes \$1.

Nine Cherry trees \$1.

13 Peach trees \$1.00. Write us TO-DAY.

WRAGG NURSERY CO., Des Moines, Iowa.

EAR SEED CORN

PRIDE of South Dakota Early Yellow Dent, Early Snow Flake White Dent, both good yielders; was fully matured and dry before any freeze. Will germinate stronger and better than the 1908 crop. Every bushel guaranteed or money and freight refunded; \$2.50 per bushel. 10-cent stamp gets sample ear.

C. S. BOVEE, ELK POINT, SO. DAKOTA.

SWEDISH SELECT OATS

Pure, Recleaned Northern Seed. The great Oats of the Corn Belt. \$1.00 per bushel in twenty-five-bushel lots; \$1.25 per bushel in ten-bushel lots.

THE SUMMERS SEED HOUSE, Malvern, Ia.

CLOVER

New Crop Iowa Crown Recleaned TESTED

and inspected Red Clover. Also Mammoth Alsike and Alfalfa Clover, Timothy, Blue Grass, etc., at low prices. Now is the time to buy. Ask for samples and a copy of our Special Clover Seed Circular. Large illustrated catalog of Farm and Garden Seeds free.

IOWA SEED COMPANY, Dept. D, DES MOINES, IOWA.

SEED POTATOES

(ARMENNO, 3—best late, white, yield; better than Rural N. Y., which they much resemble. Save money by buying direct from the grower. 5 bushel or more, \$0.60 bu. Less amounts \$1 bu. S. C. Buff Orpington eggs \$1 per 15. Extra good mating. Address O. J. EARLY, BRISTOW, IOWA.

1908 Seed Corn

Yellow Dent stock; hand picked and tested 95 per cent; guaranteed to grow. Write me for particulars. J. J. O'Laughlin, Rome, Iowa.

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.

The PLATTE VALLEY RED CEDARS

GROWN from seed, have no equal for wind-breaks; hardy and vigorous anywhere. Write for price list. L. E. GARLAND, AFTON, IOWA. Successor to Garland & Fowler.

PRIZE-WINNING SEED CORN

Tests 90 and 100 per cent.

PURE KIERSON OATS

and Field Seeds. Write for catalog and prices. AVE BROS., Second Street, BLAIR, NEB.

STRAWBERRY PLANTS, 50c. per 100; \$2.50 per 1,000. Blackberries, Raspberries. Circular free. C. J. Mackey, West Liberty, Iowa.

wise be used in that process. (3) It puts the soil in a condition favorable to the absorption of the warm rain water which otherwise would escape over the surface.

Wisconsin.

E. R. Jones.

PREPARATION FOR PLANTING THE YOUNG ORCHARD.

The nursery tree requires some special preparation immediately before it is put into the ground. This refers, of course, to pruning. Some growers advise that trees be planted first and suitably cut back immediately afterward; but this is certainly not the best practice. It is easier to prune nursery trees with a heavy pair of shears just before they are planted than it is to walk all over a twenty-acre field to prune them after they are set out.

It has usually been accepted as a horticultural axiom that an extensive, symmetrical and well-drained root system is always desirable or even necessary. In recent years this belief has been strongly challenged, especially by the so-called Stringfellow system. Mr. Stringfellow's scheme, succinctly stated, is to cut off all the side roots entirely and to shorten the tap root to a length of four or five inches, leaving thus of the whole root system only a single short and naked stub. The top is treated in a similar manner, all branches being removed and the main stem being cut back to a height of eighteen inches or less. The trees are thus reduced to something a little more than cuttings.

This theory is so heretical that it has called out a storm of discussion. Now after the storm has subsided we have found, as is usual in such matters, that there is something worth saying on both sides of the question. Many experiments have been made, and it must be said that the results give very little comfort to the extremists on either side of the debate. Mr. Stringfellow himself has recently seemed inclined to retreat from his most advanced position, and the horticultural world in general has been greatly surprised to find how much truth there was in his contentions. From the wealth of observation and experience recently brought into circulation we may fairly draw the following conclusions relative to this whole matter:

1. A large or widely ramified root system is not important except as an indication of the health and vigor of the tree.

2. A good nursery tree with a heavy root system may be very severely cut back without greatly injuring the vitality of the tree or interfering with its first year's growth.

3. The fibrous roots which may be present on the nursery tree are altogether useless. New fibrous roots have to be formed in any case before the tree can feed itself.

4. Extreme stub-root pruning is not advisable in any case, though under certain circumstances it may give as good results as any other method.

5. The contention that stub-root pruning causes the tree to form a deeper or better root system has not been proved.

6. Severe cutting back of roots and tops appears to be most advantageous with peaches, Japanese plums and pears of the Kieffer type. It is more successful in the South than in the North. It is better on light, warm, not too dry soils than on heavy clay or dry sand.

The judgment of the present writer may be summed up, therefore, by saying that it is best to prune nursery apple trees thoroughly, even severely, just before planting. Not only should all straggling and broken roots be cut off, but all the main roots should be cut back within three or four inches of the trunk. Such trees are much easier to handle than those differently treated; they can be more rapidly planted, and the work would be more thoroughly done. At the same time the tops will be cut back at the point where the head is to be formed. If the heads have already been formed in the nursery at a height satisfactory to the fruit grower the best plan will be to shorten all branches to stubs of two or three inches long, taking some pains to see that these are not too thickly placed. If a suitable head has not been formed in the nursery, or if, as is often the case, the head has

been formed too high, the entire top should be cut off. Even two-year-old trees can be thus cut back to bare stumps of twelve, eighteen or twenty inches tall, from which satisfactory growth will be secured the first year after planting in the orchard.—(From The American Apple Orchard).

EARLY CUCUMBERS.

Early slicers for the home table are like many other good things—we may have them if we are willing to pay the price. Not meaning the ten or fifteen cents per at the fruit store, but the toil of labor and care needed to grow them at home. If you have no greenhouse, a hotbed will do for the start. Cut squares of sod—not real, heavy sods, but of the loose, just barely-hold-together type. Let those sods be cubes—five inches each way. Cut them of even size, so they will fit when placed in the hotbed. They are packed in soddy side down.

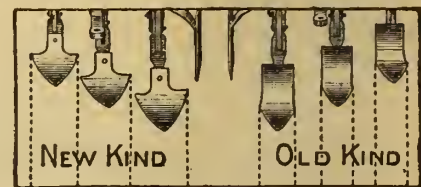
Plant three or five cucumber seeds in the center of each sod. With proper attention to airing, you may maintain the right degree of heat to force a rapid growth. The cucumbers will need more heat than plants usually grown in the hotbed, and by the use of liquid manure you can force them rapidly. By May 15th when it will be wise to put them out in the field the plants should stand six inches high—just ready to fall down and run. The work of transplanting should be done with great care, for it will not do to disturb the roots of the cucumber. Better have a shovel or spade, just the size of the sods, which are to be lifted and packed in boxes, wheelbarrows, or carts.

Do not handle roughly, for the sods must be kept intact until dropped into

the holes for them. The hills for final growth should be prepared by the admixture of rotted stable manure at the rate of about one wheelbarrow load to three hills. Does that seem too rich? It will make just such a soil as the cucumber riots in. If you do this carefully, with attention to all details, you will have slicers in June for yourself, and friends, and some to sell to your enemies.

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DAY BY DAY

AGRICOLA

The "sudden saw log" is the striking nickname adopted for quick growing trees in artificial groves. An exchange highly recommends the poplar for this purpose. It was tried here years ago and proved almost worthless. Cottonwood is far better here, and every spring traction engines with portable sawing outfits make lumber for farmers from cottonwood trees planted when the country was wild and windswept.

I believe that many farmers fail to appreciate the value of corn and cob meal as stock feed. It is less compact than pure corn meal, is eaten just as clean and proves very satisfactory.

Blessed be the man who sets out trees. They root his affections to the soil and make him a patriot. No lover of trees hangs the red flag of anarchy from his dooryard tree. But, my good friends, do not plant trees too near to the house. Sunshine is better than darkness and disease lurks in damp shadows. Have shade, but have air drainage and sunshine too.

The fanning mill took out less of light oats this spring than for many years. I like to sow heavy oats, sow them early and trust to heaven for the rest.

Seed potatoes should be aired and greened by exposure to sunlight in thin layers before planting. If left in the dark cellar and allowed to grow pale sprouts the strength of the seed goes into this spindling growth. If sprouted in sunlight the sprouts are short and stubby and will keep growing after being planted.

Did you ever "hog in" oats and have a bully good crop? I have. Did you ever know of a field of oats put in by an expert as a show crop for the public benefit which was not worth harvesting? So have I. But it was chiefly due to the kind of weather. Sowing early is the great thing needful here, just as early as it is safe from damage by frost, and if the ground will not work up friable and nice it has proven better here to sow early rather than late even if you can do a better job of work later.

I once knew a neighbor to sow oats in June and harvest a good crop. So I tried it and had nothing. His good crop was an exceptional case.

I have been looking up the records to see when Cannon concocted the rules committee scheme, with the speaker on the committee, and what do you think? It was Crisp, a democratic speaker, who started that thing and Cannon found it just to his notion. But here we are busy with spring seeding and don't care so much what they are doing politically as we did when there was little else to attract attention.

Sweet corn and sugar beet acreage has been easier to secure than ever before and farmers have eliminated the creases of care from their foreheads and are free from worry for the present. Of course, they are dependent upon their silent partner, Nature, the same as ever, but the present outlook is bright.

No wheat is grown in this part of the corn belt. Oats and barley constitute the small grain. I can remember when wheat was the main crop and we stuck to it as a forlorn hope several years after it ceased to pay and finally had to go into dairying to keep the sheriff from taking liberties with our property.

I have ready many articles about breaking a heifer to milk, but never one that appeals to me like the method I always use. It is this: Milk her. There are no fuss or feathers or preliminary calisthenics necessary. Just milk her, and all that is more than this is plumb foolishness.

This presupposes that her mother was a milk cow and that she was milked. Instinct is inherited habit.

The well-born heifer has the inherited milk habit. Wait until she has a calf and it has sucked and started the maternal machinery full force. Then sit down by the heifer and be the substitute calf. But if she is from the range or from cows which have run loose at their own sweet will and been milked only by four-legged calves, this rule doesn't apply. I refer to milking animals kept for milking.

And much the same thing proves true in breaking colts to work. The bronco is a distinct proposition from the draft colt. To break a draft colt to work, put on the harness and go to work with him.

I never before knew a spring when the ground worked up so nice and so early in the season as it does this spring. It is a pleasure to farm when conditions are so favorable. Some farmers disked cornstalk ground before seeding, and some seeded before disking. I have tried both ways and prefer to disk first, and I want the disks sharp so they will cut up the stalks.

Deal gently with the spring poet this time. Dame Nature is seductively beautiful and rhapsodies are in order now if ever.

I pity the sweet girls now laboring day and night to keep up with their school studies and graduate as pale anaemics, limp with fatigue, flabby muscled and unaware of the real things of human life. They mean well, so do their mothers and their teachers—the more the pity. As Solomon once said, "Too much study is a weariness to the flesh."

BAD ROADS ROB THE FARM.

Secretary Knox believes that the congestion of population in great

cities is caused in large part by the lack of good roads in this country. He told the house committee on foreign affairs that the reason France was the best agricultural country in the world was because it had had good roads so long. He said:

"The agricultural population of France does not have to spend its money in repairing vehicles and their harness every winter. I think it has improved the attractiveness of rural life. I believe it has caused the population to remain on the soil more than any other country. You do not find that tendency to urban population in France and England that you do in this country."

The subject came up in connection with the consideration for an appropriation for the participation of the United States in the "Permanent Association of Road Congresses," an international affair, and the secretary seized the opportunity to declare his interest in good roads. He also made the interesting statement that motor cars were working havoc with roads generally.

"All of you who have traveled in France in the last year or two know that their roads are wearing out," Mr. Knox said. "The motor cars have destroyed the surfaces of the French roads, and the French government is anxious to co-operate with the other powers to see if some new methods cannot be devised for the protection of roads that will meet the demands upon them." The secretary got the appropriation.

It is easy to tell the difference between a fresh egg and a cold storage egg without breaking the shell, and dealers who sell stored eggs for "strictly fresh" ones may be prosecuted and convicted, according to statements made by Dr. Harvey W. Wiley, the government's chief chemist. Doctor Wiley's views were brought out at

the "high cost of living," hearing being conducted by a congressional subcommittee. Doctor Wiley produced several fresh eggs and also some of the cold storage variety. Dropping them into a large vessel of water containing 10 per cent salt solution the fresh eggs immediately sank to the bottom and the refrigerated ones floated to the surface.

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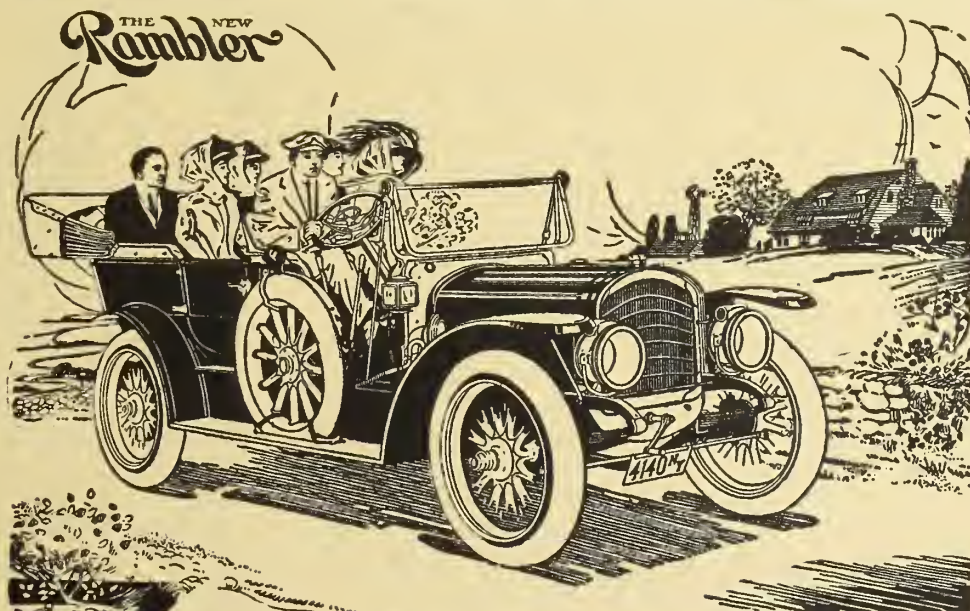
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Echoes From a Kansas Farm

BY HENRY HATCH

Straw hats are in the show windows in town; next week felt boots might be more fitting to the weather.

Anyhow the apricot and peach trees are in full bloom and the apple trees will soon follow. No damage yet, but the suspense is not yet over. Last year the ground crusted over the 1st of May.

A neighbor planted corn on the 22d of March. We claim this as a record for this season, whether he gets a stand or not.

Cold, rather dry weather will not quickly rot seed in the ground, not as quickly, we believe, as the warm, too wet weather we sometimes have later on, but cold, with any degree of moisture or lack of moisture, stunts the plant as soon as it is above ground. We do not like to see corn yellow, even when the yellow kind is planted, until ready for maturity.

Few planters are now sold in these parts equipped with check rowers. Instead, the disk furrow openers are popular, and with them attached, the corn is planted in the furrow, where it can be kept clean without cross cultivation.

The disk cultivator is certainly a weed slayer. With a small ditch at the start, the dirt may be thrown from the row the first time, then back in the second time. This leaves the field cleaner than two cultivations crossing each other on the surface, and the dirt is not yet leveled to the row so more execution is possible.

In buying a new planter to which you expect to attach furrow openers, it is a good idea to get the high-frame, high-wheeled machine. Furrow openers will work very satisfactorily on the low machine, but they do not set quite as well and balance up as well as on the high machine. The high wheels are worth the difference, anyhow.

Yesterday the writer attended a horse sale at the county seat, twelve miles away. These sales have been of bi-monthly occurrence all winter, the one yesterday being the last until towards fall. A poor class of stuff was sold at the last one, mostly ponies, broncos and stiff-legs. Prices were high enough for the quality received.

Sales of this nature are a good thing for the town. A large crowd has turned out at every one held the past season, people coming from three and four counties. The selling is done in a large barn, in a ring that might remind one of a city horse market. A tag on each animal sold tells how he will be guaranteed, and if the purchase is not as guaranteed after a reasonable time for trial out

on the farm or wherever it goes, the price is refunded.

The wheat acreage remaining in first-class condition is small, at least in those sections where it is both a corn and a wheat belt. The acreage sown here is never great, but all but the very earliest sown, on early plowed land, is already dead and brown. The very best is spotted, and although looking well in contrast with the poor stuff, would not be counted a good show in a good season.

Twelve acres of fall-sown blue grass on this farm, sown at the cost of a half bushel of seed to the acre, worth \$3 a bushel, has gone the way of the later sown wheat. We have this consolation left—the winter that killed the grass has left the ground so loose and mellow that one disking will shape the land for planting to corn.

Prairie fires burn fiercely. It is positively dangerous to set them out in the middle of the day, especially so if there is a breeze to fan the flames along. Buildings and hay stacks have been burned all over the country in a way not heard of before since the country was newly settled. A little grass in the stalk fields is sufficient to carry the fire into unbelievable places, while blowing husks carry it across section lines where the earth grade is bare of trash. As dry as it is now, anyone should be twice sure before striking a match.

CARE OF THE BROOD SOW AND HER LITTER.

To the Editor of The Homestead:

One of the greatest losses that comes to the swine grower usually occurs while the pigs are quite young. Many are overlaid by their mothers at or right after birth, and others die later of sore mouths or thumps. In nearly every case this loss can be avoided by a little more care on the part of the owner. Every farrowing pen should be surrounded by a rail or its equivalent, about eight inches from the floor, which will keep the mother from crowding the little fellows against the wall or overlying them. Too much bedding at farrowing time is another trap that catches many a little fellow before he is large enough to make his presence known. The bedding should be scant at farrowing time, and changed often to keep it dry and clean. Damp or gusty beds breed disorder among pigs which means disease and often death afterward. While a pig needs a clean, dry, warm bed, this is not saying that he should be compelled to lie there and consequently become abnormally fat. Enforced idleness causes more loss with pigs than any one thing. It is natural for any young animal to take exercise and if a pig is denied this privilege he will fill up with fat. The fat will form around his heart and lungs to such an extent that his lungs cannot work properly and then we say the pig has the thumps, which usually results in death. They will

seem to thrive for three or four weeks and then one by one the best pigs will be stricken. This trouble and loss can all be avoided by giving the little pigs perfect freedom from the start.

Overfeeding of the brood sow soon after farrowing is another source of trouble. Overstimulating the mother to milk flow while the pigs are too young to take the milk will bring about a feverish condition of the mother. This fever will be imparted through the mother's milk to the little pigs, which is very apt to cause trouble, such as sore mouths and noses. Practically all pig troubles can be avoided by giving the pigs a warm, dry, clean nest, plenty of outdoor exercise, and by not overfeeding the mother. The mother sow should only be given a little thin slop for several days after farrowing, and then her feed increased but very slowly. Get the pigs out on pasture as soon as possible. It means much to the mother and more to her litter. The brood sow should be fed only slop feed for the first two weeks after farrowing; after this, a little corn may be given, but only a little. The brood sow's mission is practically the same as that of the dairy cow, and her feed should be as carefully studied. Give her a balanced milk-giving ration and not a fattening one, such as corn. Every dairyman well knows that the dairy cow must have this balanced ra-

tion if she fills the pail, but they seem to think that the sow can feed her litter somehow, and give her almost any feed that is handy. The brood sows cannot make "bricks without straw" any more than the dairy cow. Forest Henry.

Olmsted county, Minn.

PIG PASTURES.

To the Editor of The Homestead:

A pig needs a pasture just as much as a cow does, and should have one. Many a hog grower will agree with me in this, and when they fence their pig pasture, it is simply a pig lot, not worthy the name of a pig pasture. Clover, or rather a mixture of the clovers, makes the best hog pasture. While the medium red or June clover may mean the most in the pig pasture, it can be improved by sowing a little mammoth, alsike and alfalfa in connection. There is a benefit that comes from a variety of feed that has not been given the attention it deserves in the feeding of all farm animals. This applies to pasture as well as to dry feed.

In seeding a pasture, use plenty of seed so the stand may be thick. Pigs, to do their best and to get the most out of the pasture, must not be expected to eat all that grows. Have the pasture sufficiently large so that the pigs may eat only the

Read This Farmer's Experience With —→ GALVANITE

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THINKS ROOFING ALL RIGHT

To The Farmer:

I noticed in The Farmer for last month an article by a man, who, in giving his experience with roofing, claims all kinds of prepared roofing a failure and avers that shingles are the only thing. Now I have tried shingles, and as a result, my dwelling house burned down five years ago, being set on fire by a spark from the chimney. Some may say, why did you not paint your shingles? That is all right; I have seen painted shingle roofs, on which the shingles were rotted right in to where the water runs on to them from the shingles above. No more shingles for me. I have now on my new house some kind of roofing that is called Galvanite, and I got it five years ago when I built. It has stood the test of water and fire, as big balls of fire lit on it two years ago, when the big brush fires were raging up in this country, and it did not show on the roof at all. It is coated with mica and it is not like the roofing coated with crushed stone, stiff and hard to lay, but very soft and pliable. It is asphalt coated; no pitch will run down your roof in the hot summer weather, and it is today just as good as the day I laid it five years ago. It looks as though it is going to last as long as I live.

CHARLES OSTERLIN.

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best and in this way they will make the best gains. What remains uneaten can be cut out for hay and then a new growth will spring up which will be greatly relished by the pigs. An acre of clover rightly managed can be made to grow as much meat as an acre of corn, and at a vastly less outlay of labor. A clover pasture can be made to produce at least one-third more pig feed if Dwarf Essex rape be sown broadcast at the rate of from three to five pounds to the acre, before the pigs are turned in the spring. The pigs will tread it in and it will come up and begin to show itself about the last of June. It comes on at the time the clover begins to get a little tough and is greatly relished by the pigs. If it gets too large and tough, run a mower over it and cut back. It will very quickly come up again. I cannot say that rape is as good as clover for a pig pasture, but it adds variety, and this means much.

If one is depending on sowing something this spring for pasture, sow a variety of grains, including a few Canada peas, and, of course, some rape. The greater the variety the better and the greater the amount of feed a given area can be made to produce. Where one is depending on sowing grain, etc., for pasture at different times, always prepare the land early, that is to be sown later, which will keep it from becoming hard and dry. Sow the piece nearest the hog pens first, and the field farther back later, to prevent treading of the unsowed field. Plenty of good pasture will materially lessen the cost of the summer feed of pigs and keep them in better constitutional vigor than by keeping them shut in pens. Our fathers could keep pigs in pens at a profit, but now that some have learned a better and cheaper method, those who neglect the opportunity will be left in the rear by the more wide-awake, up-to-date farmers. Forest Henry. Olmsted county, Minn.

PIG-EATING SOWS.

To the Editor of The Homestead:

Why does a sow eat her pigs? An abnormal appetite that no one understands but the sow and she doesn't tell. She seems to be insane and that is the charitable conclusion. When a person becomes insane the only remedy is restraint until reason asserts itself and that is the way that I treat this species of insanity.

As soon as the sow shows any disposition to eat her own offspring, catch her and with a piece of baling wire begin on her jowls and wind it round and round first and then run the wire through the loops and bring it over her head to hold the noose up, continuing until her mouth is shut reasonably tight so that she cannot eat anything but soft swill; then let her loose with a place fixed where the pigs can get under and out of her way when she roots them and attempts to throw them into the air as she always does.

She will tear around and try to get hold of them, but will not succeed in harming them one time in ten. Leave the wire on at least two days and perhaps three. It is tough medicine but so is the mania—on the pigs. Keep plenty of water and soft stuff before her. There is fever and she will suck enough water through her teeth to keep herself in nourishment. After awhile she gets tired from her own frenzy and the pigs will begin to assert their rights. At first she will renew her attack, but gradually the wire cutting into her jowls will begin to give her something to think about besides eating young pork and she will finally give up and let her pigs get the nourishment that is theirs by right, and I have never seen the case yet where the natural mother love will not finally assert itself and she will submit to their caresses as lovingly as though she had not at first become a veritable demon.

It is rather a tough remedy at first glance, but there is really no harm done except a sore jaw that will be well in a week. The abnormal appetite is broken, mother love takes its place, and that is all there is to it. I have saved as many as fifty pigs in one season in this way and

never knew it to fail. Some seasons it seems as though the whole herd of swine is affected in this way, and it is always too late to theorize and save the pigs too. Drastic and immediate action is the only remedy, and it is a question if it is not really a benefit to the sow as well as to her progeny, for her spasms of ferocity simply show her to be a maniac while they continue.

When she becomes tractable slip a pair of wire cutters under the wire and clip it in two on top of her head. She will open her mouth in surprise, but her pig-eating proclivities are all gone. Try this, anyone who has pig-eating sows. It won't cost anything but ten minutes' work and if you leave the wire on long enough you will get a cure every time. I left it on one sow almost a week and she began to get weak, too, but she ate no pigs after that and I saved several out of a litter that she had eaten five of before I found it out.

I was tempted to write this after seeing an article in your paper in regard to feed for this trouble. No doubt but proper feeding will obviate the trouble if taken in time, but a feed theory is no good when the pigs are disappearing at the rate of about two a minute. My remedy is not in any manner an "absent treatment." It is Christian science, "Johnny on the spot," an "ever-present need," a cure while you wait. It is not a theory; it works, and I know it, for I have tried it repeatedly without ever having it fail.

E. N. Bailey.

THE ROAD ENGINEER OR SUPER-INTENDENT.

To the Editor of The Homestead:

In regard to the county road superintendents I will take the negative side of the question. From my experience as a township trustee, having had something to do with the making and repairing of the public highways for the past five years, I will say that as a general thing our roads are about as good as they can be considering the material from which they are made. Our present road laws are good enough for all practical purposes if they are carried out. The office of county road superintendent would only mean another county office for the taxpayers to keep up, and besides, there are not enough men who are skilled in the art of road making to furnish the ninety-nine counties of the state of Iowa with a superintendent.

There can be no comparison between our public schools and our public roads, from the fact that we have two entirely different elements to contend with. On the one hand we have the minds and dispositions of mankind, that can be controlled by certain individuals who have been trained for that purpose, while on the other hand there is an element that is to a large extent beyond man's control. I mean the heavy rains that wash out our bridges and culverts. Our roads are in good repair ten months in the year, and at this writing (Good Friday, 1910), we would appreciate a little rain in southwestern Iowa to lay the dust. Those who complain most about bad roads are the people in the cities and towns who have automobiles, and in the

spring of the year are anxious to get out and take a spin through the country and can hardly wait for the roads to dry up and the rough places to be worn down by the traffic of the farmers. Salem Curtis.

Mills county, Iowa.

Burlington Junction Post: "Don't stick up your nose at the King drag. It will make a sour road look sweet in less time than any other device

known to man. The only objection to it is that it is too darned simple. It ought to have three or four fly wheels, fifty or sixty cogs and a few hundred coil springs attached to it. Then if \$285 f. o. b. Chicago were charged for it, it might come into general use. As it is, it is handicapped by cheapness. Nobody wants a road drag which costs only a few boards off the back fence, a bolt or two from the windmill and a fistfull of skinned knuckles."

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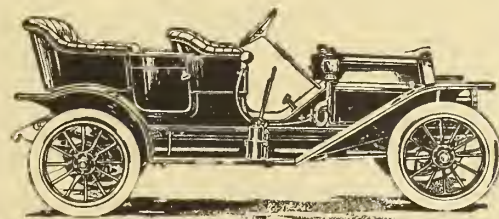
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Special Seed Corn Train

A SPECIAL seed corn train in charge of Prof. M. L. Bowman, secretary of the Iowa State Corn Growers' Association, was run over the lines of the Rock Island Railroad in western Iowa last week. The train started at Van Meter Monday morning and finished its trip at Neola Saturday noon. Seed corn all along the line was found to be in a deplorable condition. At no one of the fourteen towns at which the train stopped did the corn test more than 25 per cent strong. The average for the week was 15 per cent strong. This means that only one kernel out of every seven which was tested by the experts was pronounced perfect so far as germination ability is concerned.

The far-reaching effects of using seed corn which does not test absolutely perfect (six kernels to every ear being tested) were pointed out, over and over again, by Professor Bowman and Prof. H. A. Snyder, the chief lecturers of the train. Inasmuch as there are on an average about 900 kernels to each ear, one kernel out of every six tested showing no germination means that one-sixth of the 900 kernels, on an average, will be poor; that is, 150 kernels to each ear. Planting three kernels to the hill, each ear of seed corn used which tests only five strong out of six, means fifty missing hills of corn. Professor Bowman estimates that each poor ear of seed corn used costs the farmer from \$2.00 to \$2.50 in reduced crop. He asserted at several places along the line that unless the farmer puts more brains into his business, he can do better to sell his farm and invest the money in 5 per cent farm mortgages, and can rent farming land cheaper than he can afford to own it. At the same time, Professor Bowman stated that the farmer has never yet failed to rise superior to circumstances and to avail himself of every additional means to improve his crop yield. If the farmers of Iowa and the corn belt test their corn thoroughly this year and plant only those ears which test six perfect kernels out of every six tested, Professor Bowman believes that the crop will be kept up to the standard of 275,000,000 bushels and that situation, serious as it is this spring, may be saved.

The movement to have the farmers establish a five-acre seed patch is undoubtedly gaining ground, as a result of the special seed corn trains. Professor Bowman and Professor Snyder contend that if the farmers will plant their best seed corn this year in a special five-acre patch, so located that pollen from poor corn will not easily be blown to it and thus have an opportunity to fertilize good silks with poor pollen, that plenty of good perfect germinating seed corn may be secured next fall without much trouble, it being much easier to get the supply from a five-acre field than by rambling at random over sixty, eighty or 120 acres. They reiterated that seed corn should be picked about the middle of September, the best ears being those which grow about three and one-half or four feet from the ground, and advised against picking the ears growing six or seven feet from the ground and turned up to the sky, letting the rains in.

"I believe the possibilities of this seed patch plan are immense," declared Professor Bowman at the conclusion of the week's trip. "Heretofore, we have paid no attention to corn breeding. Farmers have thought little or nothing of paying \$200 or \$500, or even \$1,000, for good live stock, in order to build up the standard and the type of their herds, but they have thought \$2, or \$3, or \$5 for a bushel of seed corn was outrageous. I had a man tell me on this week's trip that he had paid \$1.40 for a bushel of seed corn, as though that were a large sum. Now, a bushel of seed corn will plant seven acres, so at that price his seed costs him only twenty cents an acre. Why, farmers are spending two or three times \$1.40 for enough oats to plant an acre and the oats crop has never been profitable in Iowa.

"By this, it is not to be taken that I am arguing that Iowa farmers should

pay big prices for their seed corn, but I do contend that they should be consistent and devote to corn growing some of the shrewdness and the money that they devote to live stock breeding. I am opposed to this plan of sending away to In-

to it that no sickly, puny stalk of corn is allowed to grow up to produce tassels to pollenate a good, strong and vigorous mother plant. The sins of the fathers are visited on the children to the third and fourth generations in corn as well as in human beings. Along early in the summer the farmer should take a sharp knife and go out into this five-acre seed patch and cut down every stalk of corn that does not give evidence of bearing a good ear. This will keep some strong, vigorous mother plant from being pollen-



The ear germination test. Enough corn is seen on the shelves to plant forty acres.

diana or any other state for seed corn for planting in Iowa. Indiana carried off the honors at the National Corn Show, but I firmly believe it will be better for Iowa farmers to plant the best seed they can secure in their own locality (even if it is poor) than to send away and get good seed from a great distance. Climatic and soil conditions are different and imported corn will not do as well as old seed corn grown on our own Iowa acres. In case there is not a sufficient quantity of last year's seed to use, I would recommend using 1908 corn, although farmers should bear in mind that it will require two or three days longer to test the 1908 corn than last year's, so they should not expect results in their germination boxes so quickly.

"In the event that either 1908 or 1909 corn is tested and the results show five kernels to be strong and one to be weak or bad, I would recommend that another test be made of this ear before it either be rejected or accepted as seed corn. Farmers can well afford to devote the time necessary to make this re-test.

"We must learn to breed corn just as we do animals. The silk is the female and the tassel is the male. There is a silk produced for every kernel on the ear of corn, and there are between forty and fifty million pollen grains on each tassel. One pollen grain is sufficient to fertilize one silk. Now, in this five-acre seed patch, we must see

ated by a worthless stalk, and will dispense with the runty ears of corn which bring down the state average."

Practical object lessons in making germination boxes were given at every

town, the experts recommending boxes made of cheap pine lumber, sheeting and sawdust, claiming that practically as good results can be obtained from these homemade boxes as from any of the commercial testers which cost several times as much money. Reports received from the towns visited after the departure of the train are to the effect that the suggestions are being adopted and that scores of germination boxes are being made and large quantities of seed corn being tested. One farmer had already tested his corn before the arrival of the experts and had thrown out all ears which tested unfit. He then took samples of his good corn to be tested by the experts, whose judgment coincided with his. He stated that he had read of the seed corn agitation and had tested enough corn to plant 210 acres. His example is undoubtedly being followed by hundreds of other farmers in the western part of Iowa, so that the situation is not as bad as might appear on the surface. At the same time, however, the greatest necessity exists for concerted action on the part of every farmer.

The tests made last week along the Rock Island railroad showed the percentage of corn which tested strong to be as follows: Van Meter, 15 per cent; Dexter, 12 per cent; Stuart, 8 per cent; Guthrie Center, 15 per cent; Adair, 12 per cent; Audubon, 10 per cent; Exira, 25 per cent; Atlantic 8 per cent; Lewis, 12 per cent; Walnut, 18 per cent; Avoca, 15 per cent; Oakland, 18 per cent; Harlan, 20 per cent; Neola, 20 per cent. The result of these tests should be to encourage farmers to keep on in the good work until they have secured enough tested seed corn to plant the entire field, so that the state average may not only be kept up, but may be increased. As Professor Bowman points out, a yield of forty bushels to the acre is only one nubbin weighing twelve and one-

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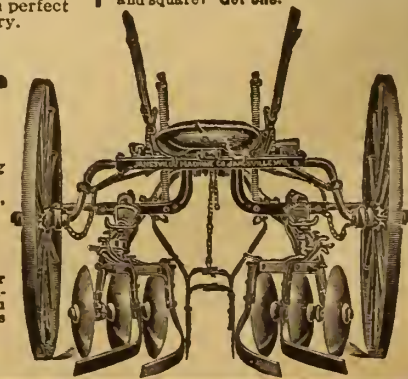
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half ounces to the hill. There is not an acre of land lying along the Rock Island railroad in the western part of the state which is not capable of producing at least one-half an ear more to the hill.

The Rock Island railroad officials are to be congratulated on doing what they can to assist in the campaign to improve crop conditions and increase the prosperity of the country which they traverse. This present week the railroad is running a second special

seed corn train, the itinerary of which is as follows:

Monday: Vinton, Dysart, Traer.
Tuesday: Reinbeck, Grundy Center, Iowa Falls.
Wednesday: Dows, Clarion, Goldfield.
Thursday: Livermore, West Bend, Emmetsburg.
Friday: Graettinger, Estherville.

The same corps of lecturers are on this train as were on the Rock Island train in the western part of the state last week.

Care of the Brood Mare and Foal

By David J. McLay, Wisconsin

MORTALITY among foals is a feature of horse breeding that is bound to more or less dampen the enthusiasm of the breeder. Notwithstanding the large amount of excellent matter appearing from time to time in our stock papers upon the subject of the care of the brood mare and foal, every year brings its mournful percentage of losses which are usually attributed to "bad luck." While no doubt there is bound to be this percentage even with the most careful management, yet it can certainly be greatly reduced by vigilant and intelligent care. As the time to begin training a boy is before he is born, so the time to begin the care of the foal is while it is yet in the protoplasmic stage.

The dam should be without congenital unsoundness, in good health and mated with the best stallion in individuality and breeding available, even if the service fee be a little larger than the next best. Those few extra dollars won't cut much of a figure on the price of the horse when he arrives to maturity, and the superlative influence of the stallion upon the offspring is unquestionable. The pregnant mare should be well-nourished, but not overfed, and for this purpose nothing is better than good oats and bran and a modicum of oil meal as a laxative. We believe, however, care should be exercised in the amount of the latter feed given, as an over-supply might tend to an over laxation of the internal membranes with disastrous results. Corn can be used to advantage to the extent of half a dozen ears a day during the winter, but would advise withholding it entirely for about a month before foaling, as it seems to make the milk of the dam too rich or contains some element which irritates the bowels of the young foal, causing scours.

It has been our experience that corn fodder in generous quantities also tends to produce this irritation in both the foal and calf. Mixed clover and timothy hay is excellent for roughage supplemented by sorghum or corn fodder. I would here sound a note of warning touching upon the well-nigh universal practice of allowing horses the run of straw stacks or any coarse, fibrous fodder without balancing it with a concentrated, laxative grain ration. Some will so gorge themselves as to cause impaction of the stomach or bowels with usually fatal results.

Exercise is essential to the welfare of both mare and foal and she should be allowed to run at will in yard every day when not too cold or stormy, or she may be worked in harness, avoiding severe exertion or very soft going. Neither should she be hitched between other horses on the gangplow or anything else where she will be jostled or crowded, as this might bring premature birth of the foal. All undue excitement of the senses of hearing, sight and smell should be avoided. The smell of blood, especially, seems to indicate a constitutional disturbance tending to the expulsion of the fetus.

Green pasturage is, of course, the ideal environment for the brood mare and especially by its cleanliness has a salutary effect in the prevention of that most dreaded of all foalhood scourges, "joint ill" or navel disease. The early foal without the advantages of this environment is peculiarly liable to the contraction of this disease from the germs lurking in the stable. And the very late foal is even more in danger, as in warm weather it is kept in to protect it from the

fly pest, and encounters and falls before the insidious microbe.

However, much has been written for the prevention by cleanliness and disinfection of this disease, yet I ven-

Hence my excuse for repetition. The mare before foaling should be placed in a clean, well-ventilated box stall, thoroughly disinfected with one of the coal-tar preparations and well bedded, and a disinfectant at once applied to the raw navel cord and repeated once or twice the first two or three days and less frequently thereafter until the cord dries up. Corrosive sublimate is probably the best to use for this purpose, and a convenient way of using it is to dissolve a small quantity in the proportion of one grain to the ounce of boiling water. Put some of this into a wide-mouthed bottle and by inserting the end of the cord in both freely bathe the part.

The foal should be frequently watched for several days for symptoms of bowel trouble. If scouring or bound up three or four tablespoonfuls of castor oil should be given in the latter case, combined with soap and water injections. If scouring does

milk being too rich or abundant, or of some disturbing element in it derived from the feed of the day. In this case it is well to limit the quantity of milk or change its quality by changing the feed of the dam.

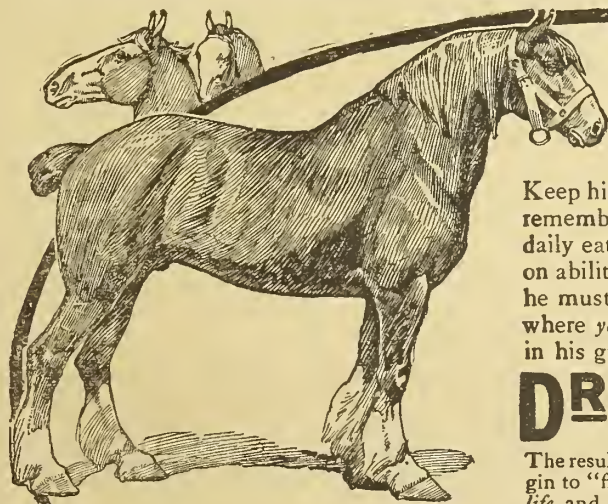
When July comes with its flies and burning sun the mare and foal should be housed daytimes in as airy a boxed stall as is possible and the latter, allowed in a separate feed box, what grain it will eat. By weaning time, about six months of age, the foal will then be so accustomed to this kind of nourishment that it will suffer but little if any setback. From this on, to produce the largest and most symmetrical growth draft colts should have all the grain feed they will clean up three times a day for the first winter and generously fed until maturity.



ONE RESULT OF A LITTLE "CARE."

ture the assertion that the good advice is followed by but comparatively few farmers. "Water falling drop by drop wears away the hardest rock."

not cease after the operation of the oil, a stringent medicine may be given but the cause should be discovered if possible. This is often from the



Don't Let Your Horse Lose Spirit

Keep him vigorous, full of power and ambition. Your horse, remember, takes a small ration compared with the great bulk daily eaten by a steer or cow. His "fitness" therefore, depends on ability to get *all the nutrition* out of this smaller feed. Plainly, he must have a *strong and regular power of digestion*. Here is where you can help your horse. Give him, morning and night, in his grain, a small dose of

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The result will be almost instantly noticeable. If thin, your horse will begin to "fill out;" his dull coat will show gloss; his eyes will sparkle with life, and your dispirited, dragged-out "hack" appear with the "get up" of a prize winner. All because Dr. Hess Stock Food *acts upon* increasing growth and milk production by improving digestion, is "The Dr. Hess Idea." The dose is small and is fed but twice a day. Sold on a written guarantee.

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Give a little of Dr. Hess Poultry Pan-a-ce-a to your laying hens every morning; and don't forget the growing chicks, or the old fowls you're fattening to sell. Pan-a-ce-a is a wonderful help—in fact, it's the *necessary basis* on which to build a *successful* poultry business. It increases the hen's power of digestion so that a *large* percentage of her food goes into eggs and flesh—that means *economy and profit*. In the same way (by aiding digestion) it helps the little chick and the old fowl. It also cures Gapes, Cholera, Roup, etc. A penny's worth feeds 30 fowls one day. Sold on a written guarantee.

1½ lbs. 25c, mail or express 40c; 5 lbs. 60c; 12 lbs. \$1.25; 25 lb. pail \$2.50. (Except in Canada and extreme West and South.) Send 2 cents for Dr. Hess 48-page Poultry Book free.

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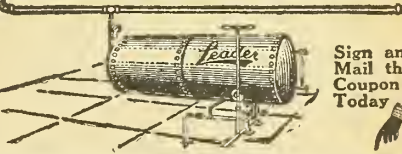
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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be enclosed with inquiries. Address all letters relating to poultry topics to this office.

RESTING THE MALE BIRD.

To the Editor of The Homestead:

An Iowa subscriber sends the following communication:

I intend to make up a breeding pen of my best pullets (twenty-five). I have two cocks to use in the pen. Is it best to use both cocks in the pen all through the breeding season, or would the eggs be fertile if the cocks were used alternately, one week at a time, giving each a week's rest and quietness in a coop by himself?

Two cocks would be sufficient to mate with that number of pullets and I would, by all means, recommend the alternating, but not at intervals of one week as our correspondent suggests. Much better results would be obtained if they were used on alternate days, as a week's separation from his mates would cause the cock to worry and he would thus deteriorate in vigor instead of recuperating as was intended. Even with the best of care this would surely follow. Furthermore, he would, when placed with his mates, temporarily exhaust himself, having a full week with so large a harem, but if allowed only one day to recuperate and one day of mating, a strong fertility could reasonably be expected. I follow that practice entirely in most of my mating, except that we do not use a pen. We simply have coops erected in each scratching shed. They are built 2x4 feet in dimensions, and high enough for the bird to stand up comfortably. They are built away above the other fowls so no interference is tolerated in the least, and he can see his mates all the time in their shed. We feed heavily on nutritious foods, and at night all we have to do when the other male has gone to perch, is to simply open the door and he is not long in availing himself of his liberty. Then the other male is placed in captivity, and so on, and there is so much more pleasure in caring for fowls by this practice. There are no fighting marks whatever; in fact, your bird is ready to show at any time, and a great deal larger and stronger fertility may be expected.

A Poultryman

Waukesha county, Wis.

HOW OUR CATS FLOURISHED.

To the Editor of The Homestead:

The first of October I had 100 chickens hatch out of my incubator. They all seemed strong except five and they died after two or three days. The rest grew very fast and I thought they were all right for about two weeks. I then counted them and found that about ten of them were gone. As I had found no dead ones I thought the rats had carried them off. I had seen the cats around there a good deal and spoke to my husband about it. He said he didn't think they would catch chickens, but every once in awhile I would miss some until I had but fifty-eight left. I kept that number for a long time and some of them got big enough to fry. I had two black ones in the bunch and one morning I missed one of them and looked around for feathers as he was a nice rooster, big enough to make a nice fry, but no feathers could be found. I had an old box stove in the poultry house that I used during the cold weather, but of late it has been so warm that we took the stove pipe off. I was looking around again to see if I could see any trace of my black rooster when I saw the feet of a chicken sticking out from under the door of the stove. I opened it and to my surprise there were eleven of my chickens, some half eaten and some hardly touched. My aunt was with me and as I opened the door she saw a big gray cat come out of the stove pipe hole. They had taken those eleven chickens in there

in three or four days, for that is as long as the stove pipe has been off. When I counted my chickens I had forty left. I told my husband that there must be a cat-killing so he got his shotgun and shot five before he stopped.

Mrs. Jennie Drake.

TIME TO HATCH DUCKS.

To the Editor of The Homestead:

A subscriber has inquired how early in the season ducks should be hatched. This depends upon the purpose for which you are hatching them. For the eastern market, Boston being the preference, the earlier they hatch, the better. One of the great drawbacks, however, to market duck farming in the West is that there is practically no early market, and as it is easy to get ducks to lay early and as the eggs are incubated immediately, you have your ducks ready before there is a demand for them. Thus the producer must hold these ducks until they have cost as much, and in many instances, more than he received for them. A duckling is at its best for market purposes at from nine to ten weeks of age. After that they go through their first molt and take on their adult feathers, and try your best, they will shrink in weight every day. This is caused by the heavy strain of growing their tremendous coat of feathers, so that all the labor and feed is lost during this time. The operator will have to be governed by his market. Hatch the ducks so they will be ten weeks of age at the time the market opens. They should then weigh ten pounds to the pair at least, and a good feeder will do even better than that.

C. E. Matteson.

Waukesha county, Wis.

A WASTING DISEASE.

To the Editor of The Homestead:

A subscriber from Iowa thus states her problem:

Will you please tell me what ails my hens, and what will stop the trouble? I have sixty Barred Rocks, housed in a sunny, large, well-ventilated, clean house. I feed them sliced corn in the morning, small grain in litter or a steamed clover mash at noon, sliced corn at night, and green food every day. They have crushed oyster shell and coal ashes in plenty. Fresh water containing a little of the "Douglas mixture," is given twice every day. They lay first rate, have bright red combs and glossy plumage, and sing as if they were well and happy, all except one. There is never but one on the sick list at a time, always a hen and usually a pullet. First, the comb turns pale, appetite fails and she begins to mope. No thirst or diarrhea is noticeable. She mopes until her comb and gills turn a yellowish white, and then dies. I aim to change my stock every year. If you can tell me what to do I shall be greatly obliged.

I would say in the outset that this query, so concise and yet so full of the necessary detail from which to form an opinion is one of those it is a real pleasure to answer. The situation, as portrayed by our correspondent is rather an unusual one. The pale comb, the most striking symptom, always indicates a lack of blood, and a weakened condition. It is the diagnostic symptom in anemia, dropsy, tuberculosis, and enteritis—all wasting diseases. Science has progressed far enough to show that these and many other diseases are due to the presence of a germ (differing, of course, in different ailments,) but the real cause of the trouble.

Poultry keepers often observe in their flocks a small percentage of fowls which at first attract attention by the lack of color in the comb and head. These fowls are apt to become gradually emaciated and waste away without any pronounced symptom of disease. Such an ailment is commonly known as "going light." This condition is due to an impoverished condition of the blood. It is also called,

after a similar disease among the human family, "anemia."

When we consider the surroundings of our correspondent's flock, the large, sunny, well-ventilated house, and the regular feeding and care, it seems strange that such a disease should find entrance. The chief causes of anemia are lack of fresh air and sunshine—something, apparently, that does not apply to her poultry surroundings. One writer says:

"Going light" is a condition generally found late in winter, due to over-stimulation, and in some cases over-fat. We do not believe there is a cure for this unless taken early in hand. A family liver pill each night for three nights in succession, and plenty of green food, will have a tendency to correct the trouble.

There is also a possibility that tuberculosis has found entrance into this flock. It is a germ disease produced by a peculiar bacilla fastening most readily upon debilitated or weak stock, and, in adult stock, seems to develop from persistent colds which do not run into more common forms of disease.

One explanation of the fact that only one bird at a time is affected may be found in the fact that fowls in general good condition may be continually exposed to the contagion without contracting the disease. But it may gain a foothold at any time in the system of a bird that is slightly out of sorts, and after a while the proportion of the flock affected may become so numerous that it will be well nigh impossible for any of the flock to escape contagion. The progress of the disease may be rapid or slow. In the latter case, it is less likely to be detected, for affected fowls may appear to be in fair flesh and condition, continuing egg production, so that the disease may get great headway in a flock without detection, until a general collapse and impossibility to raise chicks hatched from the eggs reveals the true state of affairs.

A postmortem examination of the sick hens will tell the story unerringly. If any of the organs of the body are more or less filled with grayish or whitish tubercles (points or nodules) varying in size from a pin-point to that of a small bean, or tumors are found with soft, cheesy centers, the trouble is undoubtedly tuberculosis.

If examination of the internal organs proves the disease to be tuberculosis, treatment is not profitable. The best thing to do with each sick individual is to kill it; with the flock, to clean it out, thoroughly cleanse and disinfect the premises, and begin all over again with healthy stock. Perhaps in case under consideration matters have not arrived at this stage. The affected birds should be killed and burned, and every precaution taken.

For "going light" or anemia the great remedy is improved sanitation. Our correspondent speaks of her "sunny, well-ventilated" henhouse. She does not say whether her house is a closed or open one. Closed houses may have elaborate systems of ventilation, yet not give the fowls the strength, health and vigor imparted by the fresh-air houses so rapidly winning their way in the poultry world. Disease seems to flee before the combined power of unlimited air and sunshine.

One point in her query should be noted. She speaks of giving "Douglas mixture" in the drinking water twice each day. This is a decided overdose. Douglas mixture is a powerful tonic, and the best authorities advise giving it not oftener than twice a week for a month. Since over-stimulation is one case of anemia, or "going light," it may be that right here lies one cause of her trouble.

Let in the fresh air and the sun, stop stimulating drugs, and feed less corn and more of a variety of grain,

adding meat food, and probably an improvement will soon become evident. Subscriber.

PREVENTING TURKEYS FROM WANDERING.

One of the great troubles of turkey raising on the average farm, where turkey raising is a kind of a side issue and the arrangements are not always as they should be, is

\$7.55 Buys the Best
140-Egg Incubator
Ever Made



We Ship quick from St. Paul, Kansas City, Buffalo or Racine.

\$4.50 Buys the Best Brooder
Both incubator and brooder, ordered together, cost but \$11.50. Freight prepaid. The Belle City Incubator has double walls and dead air space all over, copper tank, hot-water heat, self-regulator, thermometer, egg tester, safety lamp, nursery, high legs, double door. The Belle City Brooder is the only double-walled brooder made, hot-water heat, platform, metallamp. No machines at any price are better. Write for our book today, or send the price now under our guarantee and save waiting.




Satisfaction Guaranteed
Belle City Incubator Co., Box 52, Racine, Wis.

A MILLION Incubator Chicks DIE EVERY DAY


We have a HOME remedy that will positively prevent or cure any kind of bowel trouble in young chicks at any age. Send us the names of 5 to 8 of your friends that use incubators, and we will send you this information free, and allow you 25c for sending us the names. This will be worth \$100 to you this summer. Send the names today; the information is free.

Raisall Remedy Co., Blackwell, Okla.

HERE'S CERTAINTY
For beginner, old-timer—every body. Don't guess or experiment—don't have mishaps. The 10-year-old
SUCCESSFUL
Incubators and Brooders make you sure. Thousands have proved them the world's greatest. Booklet on "Proper Care and Feeding of Chicks, Ducks, and Turkeys, 10c. 50c Poultry paper 1 year. 95c. Catalog free.
Des Moines Incubator Co., 50 2nd St., Des Moines, Iowa




BIG PROFITS
result when chickens are free of mites and lice. Use
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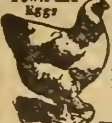
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—guaranteed to hatch highest percentage of eggs. Liberal Trial Plan. Best Incubator Proposition on the market. Postal brings all printed matter and special prices at once. Address
RACINE HATCHER COMPANY
Box 135, Racine, Wis.



125 Egg Incubator \$10 and Brooder Both \$10
If ordered together we send both for \$10. Freight paid east of Rock-Is. Hot water, copper tanks, double walls, double glass doors. Free catalog describes them.
Wilson Incubator Co.,
Box 105, Racine, Wis.



Breed Prize Winners
We have the stock at right prices—all leading varieties; 100 pens. Write us. Booklet on "How to Raise 48 Chicks Out of 50 Hatched," 10c; Poultry Paper, 1 year, 25c. Catalog Free.
ROYAL POULTRY FARM
Dept. 306 Des Moines, Iowa




Laying Hens and Thrifty Chicks

These will be your profitable results if you mix a little Prussian Poultry Tonic Concentrate with the feed. It is a real medicine that aids digestion, regulates the bowels, prevents disease and keeps hens laying regularly. For chicks it insures rapid growth, early broilers of cockerels and early layers of pullets.

PRUSSIAN TONIC CONCENTRATE

contains no cheap "filler." That's why it goes farthest and is most economical. It is helping thousands to make big poultry profits by keeping up heavy egg production in season and out. Trial package 25 cents. If your dealer can't supply you send us direct.

FREE BOOK tells what Prussian Tonic will do for your old and young fowls. Gives other valuable advice. Write us today.

Prussian Remedy Co., 20 E. Chicago Ave., St. Paul, Minn.

that the turkeys wander away from the yard with their young and lose a great many of them in the grass and in the fields, for when they are yet small they are not always able to keep up with the old hen, and then, too, wild animals often get a great many of them. In this way the flock is usually cut down to a great extent during the summer and the loss is greater than it would seem at first thought, for we usually think of them as being only small turkeys, but if their lives can be saved they will grow up to be large turkeys by fall, and that is when we must judge their worth.

To prevent the old turkey hens from wandering away from the yard too far while the brood is yet small we have found it to be a good plan to hobble the hens; that is, to tie a string from one leg to the other, so that the hens can take only very small steps. In this way they will not cover a great territory and the young turkeys will always be near them and the danger of their being killed or lost is greatly lessened.

Kansas. Gregor H. Glitzke.

TUBERCULOSIS IN FOWLS.

A very curious state of affairs is reported from a correspondent at Creston, Neb. Her fowls have been dying for about two years, mostly in summer. The flock has free range, plenty of green grass, and fresh water and a clean house. The disease starts with drooping, the combs get pale, there is a loss of flesh, and, in a few cases, diarrhea. Some live as long as a month, in others the disease runs its course in two weeks. They eat and drink to the very last. A diagnosis of the disease and treatment is asked.

The symptoms given point strongly toward tuberculosis, or one of the allied wasting diseases. A post mortem will tell unerringly whether the trouble is tubercular or not. If the internal organs of the fowl are covered with nodules or points, grayish in color, or with cheesy centers, tuberculosis is indicated. The liver may be enlarged and soft, the other organs more or less abnormal. The presence of the nodules is the only certain indication of the dreaded disease.

Some time ago a report of a similar condition was sent in to one of the poultry journals, and a request came from the chief of the pathological division of the Bureau of Animal Industry at Washington, asking that the department be put into communication with the case, as it wished to investigate suspected instances of this sort. The viscera of two of the fowls was sent to Washington, and the report that followed seems to fit this case so well that we give it here:

Tubercle bacilli were identified throughout the yellowish cheesy areas of the livers and intestines in great numbers, which prove that the presence of tuberculosis was the cause of the deaths of the birds.

The eradication of tuberculosis from your premises can only be attempted with a fair prospect of success when all the birds have been killed. Any fowls that may be kept are liable to have tubercular ulcers from which the bacilli may be constantly scattered. There should be subsequently no attempt to save any birds from a tuberculous flock, as there is no way of diagnosing early cases of the disease except after death. When the birds have all been killed and burned or buried deeply, the premises should be thoroughly disinfected. The manure should be collected and saturated with a 5 per cent solution of carbolic acid, mixed with quicklime, or spread on fields and plowed under. The floors and wood-work of the poultry houses should be washed with boiling water, or with a hot solution of 5 per cent carbolic acid. All feeding and watering troughs, and all nests should be treated in the same way. Yards that have been used for penning fowls should be sprinkled with the carbolic solution.

The premises should be exposed to air and sunlight for a month after they have been cleaned and disinfected, before new poultry is purchased. Covering the roosts and walls with lime-wash to each gallon of which four ounces of crude carbolic acid have been added, just before fresh birds are introduced, will be found very advantageous.

With all due respect to the government official who made these suggestions I would say that if plenty of room is available it will be safer to put the fowls on new land. The contagion seems to be so thoroughly disseminated in our correspondent's flock

that heroic measures will be necessary to stamp out the disease.

Should the post mortem reveal no tubercular indications the trouble is most likely to be anemia, or "going light." This is caused by poverty of the blood and weakened condition. This disease once established in a flock is difficult to banish. Plenty of pure air and sunlight, the best sanitary conditions possible, nourishing food and a judicious use of tonics are the means to be used.

Mrs. S. B. Titterington.

INCUBATORS ON THE FARM.

To the Editor of The Homestead:

Going to get that incubator this spring? If not, why not? I do not wish to be understood as advocating artificial incubation for everyone. I know women who can hatch 100 chicks with apparently as much ease as I can a dozen who would just as surely play havoc, if entrusted with artificial equipments. There are others who are really successful in caring for a machine that would flee in panic from a cranky old setting hen. Personally, I can scare up no more sentiment about a "dear fussy old Biddy" than I can about a dash churn. Nevertheless, I find it necessary to use hens as well as an incubator, and so use them to some extent.

Few farm women there are who have not longingly wished for a mechanical hen. A bustling flock of layers is not dependable as early setters. They sit when the spirit moves them, and the microbe appears to be transmitted, as they usually all get the fever at the same time. This is all discouraging, and the farm wife mentally vows to get a hatcher "next" season. But next season is a repetition of the last, and so it goes. There appears to be a natural antipathy between the average man—I mean the one who expects the wife to do all the labor, in raising poultry—and an incubator. The dear souls will wax fairly eloquent about the defects and danger, the uncertainty incident to the use of hatchers, and then gallantly (?) clinch the whole affair by pointing out the awful amount of work it will cause the tired housekeeper! Ugh! The antidote for all this palaver is nerve, pure and simple. I could tell you a list of objections to the whole affair that would intimidate a veteran; nevertheless, my big wooden hen is on duty as early as the eggs can be safely gathered. If necessary it would be a paying proposition to sell enough hens to make the purchase. And at the present high prices, it would not take very many of the oldest, big, fat hens.

Aside from the question, "Which is the best breed?" I think I get more inquiries as to what kind of incubator I would recommend. I would write to the firms that impressed me the most favorably, who advertised in my favorite paper, and when the catalogs arrive, study them carefully and you will find your personal preference a pretty sure guide in this as in most things. Beware of hot air and 95 per cent hatches. The hen will hatch more chicks at her best than an incubator, but when is she at her best, at best? Very seldom. Taking into consideration the nests left suddenly, eggs that are oftentimes valuable, broken in the nest, and down the whole list of possible disasters, the incubator will average more chicks, with the added advantage that the downy balls get started in life free from vermin. We have used artificial means for ten years and have had only one failure. Last spring from one hundred fertile eggs we got only thirty chicks. The lightning struck a tree so close to the house as to shock the inmates, and it was an awful joke on the incubator, of course. No doubt a hen could have prevented the disaster. If old Biddy averages eight or nine chicks it is passed as fairly good; the eggs remaining in the nest are dumped out with never a thought of examination. But if the hatcher leaves comparatively as many eggs, we immediately get busy and make a post mortem.

In view of the fact that the yearly returns from the American hen are nearly \$600,000,000, and that 95 per cent of the poultry is raised by the American woman, I am decidedly of the opinion that the woman is entitled to exactly what she wishes in equipments. Minnie G. Stearns.

POINTERS.

—Mrs. Geo. Haas, of Shelby, Iowa, is prepared to furnish Homestead readers with Single Comb Buff Orpington eggs as per advertisement on page 28.

—Mrs. E. Sunberg, of Stanton, Iowa, is offering Single Comb Rhode Island Red eggs, from pure stock, for sale in her advertisement that appears on page 28 of this issue.

—Mrs. W. A. Harris, of Muscatine, Iowa, breeds White Wyandottes exclusively and is quoting prices on eggs from farm range stock in her advertisement on page 28.

—Mr. Anthony O'Connell, of Lost Nation, Iowa, is prepared to furnish readers of this paper with Barred Plymouth Rock eggs at prices named in his advertisement on page 29.

—Mr. Carey R. Jones, of Iowa Falls, Iowa, announces in his advertisement on page 28 that he can furnish Homestead readers with pure-bred Rose Comb Brown Leghorn eggs.

—We call the attention of our readers to the advertisement of Mr. W. A. Brown, of Monroe, Iowa, in which he is offering Toulouse geese eggs for sale, which appears on page 28.

—Mr. L. J. Hay, of Mingo, Iowa, breeds White Wyandottes exclusively. He is prepared to furnish eggs from two pens at prices named in the advertisement on page 28 of this issue.

—Mrs. Grant Davidson, of Corwith, Iowa, breeds Buff Wyandottes and advertises eggs for sale on page 28. She writes us that she has some of the finest Buff cockerels she has ever seen.

—Our friends who are interested in chalky White Wyandottes should read the advertisement of the Cedar Lawn Poultry and Stock Farm, at Fairfield, Neb., as it appears on page 28 of this paper.

—Mr. Chas. Applegate, of Afton, Iowa, advertises on page 28 that he has Rose Comb Brown Leghorn eggs for sale. He keeps this one breed exclusively and they trace to prize-winning stock.

—Mrs. Nelson Hyde, of Manson, Iowa, can supply readers of The Homestead with very choice Rose Comb Brown Leghorn eggs as per prices quoted in her advertisement appearing on page 28 of this issue.

—Black Langshan and Rhode Island Red eggs are advertised for sale by Mrs. H. A. Sexsmith, of Greenfield, Iowa, at \$1 per thirteen or \$5 per 100, on page 29. Send her an order and you will be well pleased.

—The White Rock Poultry Farm, at Earlville, Iowa, advertises on page 29 that they raise this one breed exclusively and have done so for eight years past. Note the special low prices in the advertisement.

—Mr. Wm. Graham, of Kirkman, Iowa, is prepared to furnish readers of this paper with Rose Comb Rhode Island Red eggs at very moderate prices, as per advertisement appearing on page 28 of this issue.

—Mr. E. A. Taylor, of Boone, Iowa, can supply Homestead readers with Rose Comb Brown Leghorn eggs at very moderate prices, as per advertisement on page 28. He is also quoting prices on Embden geese eggs.

—Mr. R. B. Sherman, of Calamus, Iowa, announces on page 29 that he is ready to sell eggs for hatching from Rose Comb Rhode Island Reds, White Wyandottes and Barred Plymouth Rocks. Write for his special prices.

—Our friends who want to buy eggs from Single Comb Buff Leghorns, Single Comb Brown Leghorns, Single Comb White Leghorns or Sebright Bantams, should note the advertisement on page 29 of Mr. John Kearville, of Centerville, Iowa.

—Mr. J. M. Craig, of Danbury, Iowa, is making very attractive prices on Single Comb Brown Leghorn, Light Brahma, Barred Plymouth Rock, Pekin duck and Toulouse geese eggs in his advertisement which will be found on page 29 of this issue of The Homestead.

—Mr. Arthur T. White, of Emerson, Iowa, breeds Barred Plymouth Rocks exclusively. He is quoting prices on eggs for sale on page 28. The prices well-bred birds in his advertisement that appears on page 29 of this issue. Mr. White's former address was Red Oak, Iowa.

—Messrs. Strater Bros., of Monroe, Iowa, proprietors of the Fairview Poultry Yards, in sending in copy for their advertisement found on page 29, write: "Our Barred Rocks have size as well as quality. Our exhibition pens are in a large yard having the run of an orchard of four acres and they are all prize winners and from prize winners. The balance of our Barred Rocks have farm range. They are headed by very large cocks and cockerels with clean,

straight, deep blue barring, and we never had eggs to hatch better, hatching 98 per cent strong chicks."

—Mr. W. B. Lloyd, of Kinmundy, Ill., advertises Silver Laced Wyandotte eggs for sale on page 28. The prices quoted are very reasonable and the quality of the birds is described as being very high.

—Mrs. E. H. Pullman, of Lenox, Iowa, whose advertisement will be found on page 29, has Barred Plymouth Rock eggs for sale. Her yards contain high-scoring birds mated with Bradley cockerels and results of a most satisfactory character may be expected. Write her for prices.

—As will be noted in the advertisement on page 29, Mr. J. E. Griffith, of Washington, Iowa, is offering to sell eggs for hatching from pure Cornish Indian games. She keeps this one breed of fowls exclusively and has taken special pains to procure birds of high quality. Write her for prices.

—Indian Runner duck eggs of the Sawyer strain are offered for sale by Mr. Paul Sels, of Pella, Iowa, in his advertisement that appears on page 29. His ducks are fawn and white, drake scoring 95 and hens 95½ by Judge Heimlich. He can also furnish Single Comb Black Orpington eggs from stock scoring up to 94.

—The advertisement of Mr. W. W. Forbes, of Jefferson, Iowa, on page 28, will be particularly interesting to those who want to buy Rose Comb Rhode Island Red eggs for hatching. In addition to the attractive prices quoted Mr. Forbes offers to send five additional eggs if the advertisement be cut out and forwarded with the order.

—Mrs. Jennie P. Irvin, of Montezuma, Iowa, writes: "The eggs which I am offering for sale in my advertisement on page 29 are from carefully selected stock. Although I have two breeds, each breed is penned off a safe distance from the other. Several of my customers to whom I sold stock this spring, as well as in the past, have pronounced themselves well pleased."

—The advertisement of Mr. E. H. Bodley, Box 29, Newton, Iowa, will be found on page 29 of this issue. Mr. Bodley wishes readers of The Homestead to send for his catalog quoting prices on Barred Plymouth Rock and Single Comb Rhode Island Red eggs. He promises to fill orders promptly with strictly fresh eggs. He also has for sale a few extra good cockerels.

—Mrs. W. S. Kern, of Iowa City, Iowa, in sending in copy for her new advertisement appearing on page 29 of this issue, writes: "I still have a few hens for sale, best of layers, very well marked and weighing from seven to eight pounds. Several cockerels with extra markings, weight eight to nine pounds. One cock, well marked, very large, weight about twelve pounds, one of the best of breeders."

—Dr. Evans, of Le Grand, Iowa, one of the leading Iowa breeders of Orpingtons and a regular winner at Iowa, Minnesota and Missouri State Fairs and shows for the past three years, would like to send his mating list to all prospective buyers of Orpington eggs and baby chicks. He ships the chicks with the mother hen, which insures their safe arrival in all cases. His advertisement appears on page 28.

—Mr. Orlando Jacobs, of Mediapolis, Iowa, whose advertisement of Single Comb Brown Leghorns will be found on page 28, writes under recent date as follows: "We have finished a test of 262 eggs from our yards and range flock, proving better than 90 per cent fertile. The quality of our yards was never better. The head of yard No. 1 scored 93½ points at the state show and it is doubtful if there is a range flock anywhere that is mated with the same care and precision, or that possesses the quality and breeding they do." A circular and price list giving detailed descriptions and other matter

Rat Proo and Sanitary No Lice or Mites



CLUCK'S PRIDE COOP makes chicken raising profitable. Better than any wooden coop you ever saw. Made of galvanized iron, rust and vermin proof. No painting required. Never becomes damp, folds flat when not in use. Ends and bottom removable and thoroughly ventilated. Write today for full particulars and prices. Agents everywhere make \$10 a day and up. MAURER MFG. CO., Box 22, Freeport, Ill.

ORDER A SURE AND HATCH BONDED INCUBATOR NOW

When the season opened we had nearly 50,000 incubators in our warehouse, ready to fill orders. They are all gone but a few, and to clear them out this month we make this offer. We will send you a **brooder at actual half price** if you order a **SURE HATCH BONDED INCUBATOR** within the next few weeks. The **Sure Hatch Incubator** is guaranteed to hatch every fertile egg. Get our free catalog and read our binding guarantee. We allow you 60 days free trial. With every **Sure Hatch Incubator** we send a \$1,000,000 Surety Bond issued by the Bankers Surety Co., of Cleveland, O. Write to-day and get the brooder at half price. We pay the freight.

60 DAYS FREE TRIAL **ONE HALF PRICE**

Sure Hatch Incubator Co., Box 16 Fremont, Neb.

of interest to buyers may be had by writing to the address named in the advertisement.

—Mrs. A. Goode, of Russell, Iowa, breeds Single Comb Brown Leghorns and offers eggs for sale at the low rates named in her advertisement on this page.

—Mr. S. Harr, of Riverside, Iowa, places an advertisement of White Wyandottes on this page that ought to attract a great deal of attention. He is making a special offer on fifty birds, including cockerels, cocks, hens and pullets, show birds and fancy breeders. He also has a few good ones at farmers' prices. Be sure to note that he is prepared to furnish birds either singly, in pairs, trios, pens, or, in fact, any number that purchaser may want. The special prices named cannot fail to move the stock quickly, so buyers will serve their own interests by writing at once.

DOGS.

A Grand Litter of Collies ready to ship; one whelped February 2d; also fine female eight months old. Two fine broken Fox Terrier females, \$10 each. C. H. Drake, Hazleton, Iowa.

SCOTCH Collie pups, sable, black and white, over four months old, from trained parents; eligible males, \$8; females, \$7. F. Bollman, Wall Lake, Ia.

Fox Terriers King of the Rat Terriers. Puppies, grown stock for sale. S. C. Red eggs \$2 per 15. Sabot Kennels, Pella, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

Female Collie Pnp, whelped October 31, 1909; natural heeler, from trained parents. F. L. Reinhard & Son, Ottumwa, Ia.

SCOTCH Collie pups by imported sires at \$10 to \$25 each. Send for sale list of brood bitches, open and bred. P. L. Savage, St. Charles, Illinois.

FOR SALE Pedigreed, rough-coated Scotch Collie pups, \$5 and \$7. Mrs. A. N. Bonnett, Birmingham, Iowa.

LANGSHANS.

BLACK LANGSHAN EGGS FOR SALE

FROM high-scoring birds, 15 for \$1; 100 for \$4.50. Safe delivery and satisfaction guaranteed. MRS. JAS. H. ALLEN, New Sharon, Ia.

BLACK LANGSHANS

BRED exclusively for 16 years. There is none better and I guarantee satisfaction. Eggs for hatching \$1.50 for 15 or 30 for \$2.50. Remember that the best are the cheapest. O. H. Silson, Corwith, Ia.

PRIZE-WINNING BLACK LANGSHANS

A FEW choice cks. for sale; \$2 each; 6 for \$10. Eggs, \$1 per 15; \$5 per 100. No better anywhere at the price. Margaret C. Daly, Anamosa, Iowa.

McDUFF'S Black Langshans bred exclusively. Won at best shows. Prices, \$2 per 15, \$3 per 15, \$5 per 15. If you want size and color, write me. R. G. McDuff, Monroe, Iowa.

BLACK LANGSHAN Eggs for sale; \$1 for fifteen eggs; \$2.50 for 45 eggs. Incubator lots, \$3 per 100 eggs. H. M. McKee, Sac City, Iowa.

BLACK Langshan cockerels—A few more to sell at \$1 each from high-scoring stock. Eggs in season. Address Mrs. Sarah F. McKee, Sac City, Ia.

BLACK LANGSHAN Eggs for sale from large thrifty birds, farm range, \$1.00 per 15; \$4.00 per 100. Address, J. H. Rayl, Afton, Iowa.

Black Langshan eggs, 20, \$1; \$4.50, 100. Large birds; hens 10 lbs., cks. 12, many scoring 95. Mrs. Geo. Tutt, Marathon, Ia.

Prize-Winning B. Langshans exclusively, scoring to 94% at Dubuque by Lambert. Eggs, 13, \$5c.; 26, \$1.50; 100, \$4.50. W. W. Baskerville, Earlville, Ia.

BLACK Langshan eggs from high-scoring birds, 15, \$1; 100, \$4.50. Safe delivery and satisfaction guaranteed. Mrs. Jas. H. Allen, New Sharon, Ia.

ORPINGTONS.

S. C. BUFF ORPINGTONS Cook strain direct. Eggs, \$2 per 15; \$10 per hundred. B. S. Long, Little Sioux, Iowa.

ORPINGTONS, S. C. Buff. A fine stock. Farm raised. Eggs 15, \$1.50; 30, \$2.00; 50, \$3.00; 100 \$5. Address, Dan McCarty, Winthrop, Iowa.

Buff Orpington Eggs from prize-winning birds, \$1.50 to \$3 per 15; also orders booked for baby chicks. Mrs. O. A. Mace, Bedford, Ia.

Buff Orpington Eggs from scored pens. Eggs from a fine pen of Houdans. Write me. Mrs. Chas. Gutches, Floyd, Iowa.

PURE-BRED S. C. BUFF ORPINGTON EGGS \$1 per 15, \$1.25, 50 for \$2; 100 for \$3. Mrs. John A. Miller, R. 3, Creston, Iowa.

ORPINGTONS (Buff). Greatest winter-laying hens in the world. Eggs for sale. Free catalog. Prewitt, R. 5, Onawa, Iowa.

S. C. Buff Orpingtons Eggs for hatching; \$1.50, 15; \$7, 100. Fertile eggs guaranteed. Frank Rafoth, Earlville, Iowa.

Single Comb Buff Orpington Eggs for sale; prices reasonable. Mrs. L. E. Stanley, Cromwell, Iowa.

S. C. Buff Orpingtons Cook strain; eggs for hatching, 15, \$1.50; 30, \$2.50. Address Mrs. Geo. Haas, Shelby, Iowa.

BRAHMAS.

Ottumwa POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

LIGHT BRAHMA Eggs for hatching; 30 for \$1.25; 50 for \$2; 100 for \$3.25. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

LIGHT BRAHMAS Eggs, \$1 per 15; all unfertile eggs replaced at half price. Stock for sale. H. F. McNeill, Afton, Iowa.

GEESE.

TOULOUSE GEESE EGGS For sale, \$1.50 per seven eggs. W. A. Brown, Route 2, Box 76, Monroe, Iowa.

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$5; 200 for \$9.

T. A. DAVENPORT, BELMOND, IOWA.

"MONEY IN EGGS"

S. C. Brown Leghorns—My method and farm range has developed layers with vigor. My eggs produce layers. One third fancier's price and better layers, \$1.50 per 30; \$3 per 60; \$1 per 100; \$6 per 200. Prompt shipment. J. E. McCarthy, Enfield, Ill.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1; 50, \$3; 100, \$5; 200, \$9.

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S. C. Brown Leghorns Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$1 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

Selected Fertile Eggs From special egg strains; farm raised, thoroughbred R. & S. C. W. Leghorn hens. Mated for egg production and vigorous chicks. \$2.50 per 30; \$6 per 100. Chas. G. Jackson, Prescott, Iowa.

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BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketchum, Box 300, Booneville, Ind.

Rose Comb Brown Leghorns Bred 17 years exclusively for quality and eggs. None better regardless of price, 20 eggs \$1; 50, \$2.50; 100, \$4; 200, \$7. (Good cks. 6 for \$5. ELLA THARP, Mt. Sterling, Iowa.

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EXCLUSIVELY; farm range, prize winning stock; eggs, 18, \$1; \$3.50 per 100. Chas. Applegate, Afton, Iowa.

ROSE COMB Brown Leghorns exclusively. High-scoring and high-class utility stock. Eggs for hatching, \$1 for 15; \$4 for 100. Address, E. G. Roberts, Route 2, Afton, Iowa.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5, 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15; Sunny Slope Poultry Yards, Oskaloosa, Iowa.

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S. C. W. LEGHORNS The bred-to-lay strain. Pen scoring 94. 15 eggs \$1. Farm flock \$3.50, 100. Geo. Gaul, Tipton, Ia.

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Single Comb White Leghorns. Eggs from choice matings, \$1.50 for 15, express prepaid. Address, ARLIE TOOM, Pella, Iowa.

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S. C. B. LEGHORNS Eggs pure blood farm range at \$1 per 15 or \$1 per 100 or \$1 per sitting. MRS. H. C. LAMBERT, ANTHON, IOWA.

S. C. BROWN Leghorn eggs from prize-winners. Won on every entry at the Iowa State Show January, 1909. Mrs. Clyde Nelson, Birmingham, Ia.

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Eggs for Sale From my pure-bred Rose Comb Brown Leghorns, \$3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

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ROSE COMB Brown Leghorn eggs, all seasons, from high-scoring stock, \$3.75 per 100. Address Eva D. Tutt, Alta, Iowa.

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S. C. BLACK MINORCAS

EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

S. C. B. Minorca eggs for hatching, from first-class stock, \$1.25 for 15 eggs; \$5 for 100 eggs. Incubator lots a specialty. H. A. Wohlsdorf, Lawler, Iowa.

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S. C. Rhode Island Reds

TOMPKINS' strain. America's finest. Large, long-bodied, vigorous birds. Red to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$8 per 100. Circular free.

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ROSE COMB CHERRY REDS 20th century birds, selected eggs from high-scoring, good-laying strains. Few cockerels left. Farm range, 17 eggs for \$2; 50 for \$5; 100 for \$8. My birds better than ever. Order immediately for present or future shipment. Write for circular. W. W. Forbes, Box 710, Jefferson, Ia.

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S. C. Rhode Island Reds

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EXCLUSIVELY. Eggs for hatching from stock scoring 90 to 94%. Write for prices and show record. H. S. Fain, Emmetsburg, Iowa.

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EGGS for hatching from choice pen, \$1 per 15. Exhibition pens, \$2 and \$3, birds scoring to 94%. Deep red, not buff or smutty. Start with the best. Satis. guaranteed. L. G. Johnson, Steamboat Rock, Ia.

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THAT are real Reds, the stay-red kind, with a smooth, even, glossy color. Eggs; pens, \$3 per 15; utility or run of pens, \$1 per 15; \$5 per 100. F. L. REINHARD & SON, Ottumwa, Iowa.

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BRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. M. Finkeuhagen, Ellsworth, Ia.

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Rose Comb Rhode Island Red eggs. Strong, vigorous flock. Pen No. 1, headed by high-scored cockerel, 15 eggs, \$1.25; 30 eggs, \$2.25. Pen No. 2, 100 eggs, \$4.50; 50 eggs, \$2.40. Miss E. C. Powers, Osage, Iowa.

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50 WHITE WYANDOTTES

of my great laying strain for sale. They are beauties. Write me about them. Cockerels, cocks, hens and pullets, show birds, fancy breeders, and a few good birds at farmers' price. If you want a single bird, a pair, a trio, or a pen, I can please you. Write me at once stating just what you want. Eggs from my great laying strain at \$1.50 per 15, \$7.50 per 105. I have been with this breed for years and I can please you if quality is desired.

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FROM stock scoring 93 to 96 by Russell; many of them first-prize winners. From best pen, \$3 for 15; \$5 for 30. Range, \$1.50 for 15; \$5 for 105. Guarantee fertility and safe delivery. GEO. W. LIVINGSTON, MONROE, IOWA.

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THREE pens mated. Always winners. Heavy winter layers. Send for mating list and prices. DR. F. D. MINER - HAZLETON, IOWA.

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White, Buff, Golden, Silver Laced; 9 firsts, 4 seconds, 1 third, 1 S. Fair, '09. A. L. Anderson, Indianola, Ia.

WHITE Wyandottes of quality. This proves it. Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank. J. M. Erickson, Slater, Ia.

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White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3, 15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

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COCKEREL pens headed by first-prize winner at Des Moines Poultry Show, 1908, and birds of equal merit. Females consist of pullets sired by the State fair first-prize cockerel and the hens that produced them. Pullet pens are Blue Belle strain, and contain first-prize hen, State Fair, 1908; second-prize hen and pullet, Des Moines Poultry Show, 1908. Eggs, special pen \$5 for 15 others, \$2.25 for 15. E. M. CATHCART, CHARTER OAK, IA.

219 Egg Strain Barred P. Rocks

THEY win and lay and pay their own way. They have for Hartman and can for you. Eggs for hatching from all pens \$1.50 for 15, \$2.50 for 30, \$3.50 for 50 and \$6.00 per 100. Special mating \$3.00 for 15, \$5.00 for 30, and \$8.00 for 50. W. H. HARTMAN, Box 242, Winterset, Iowa.



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BREEDERS of exhibition Barred Plymouth Rocks 31 years. They are good layers, with large size, and have that deep blue, straight barring. Eggs, \$1.50 per 15; \$2.50 per 30. Special exhibition mating, \$3 per 15; \$5 per 30 guaranteed fresh and fertile.

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FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weighing 10 to 12 lbs.; Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guarantee good hatch and safe delivery. Catalog free. S. V. LATCHAM, MONTEZUMA, IOWA.

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LARGE boned, typical shape, snow white, 93% to 95 points. Eggs for hatching, \$2 per 15. If you want winter layers, I can please you. W. T. Wilkinson, Rosedale Farm, E. Des Moines, Ia.

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OUR yards represent Hawkins, Bradley and Thompson strains, and descendants of leading prize winners. 15 eggs, \$1.40; \$2; 100, \$4.50. A fair hatch and safe delivery guaranteed. H. C. Saunders & Son, Montezuma, Iowa.

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THE kind that win; heavy boned, snappy barred, with the style and finish that has made our Rocks famous. Pens, \$3 per 15; run of pens, \$5 per 100. F. L. Reinhard & Son, Ottumwa, Iowa.

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FROM high-scoring, farm-range stock, with heavy bone, small comb and clear, narrow barring. Twelve years' experience; satisfaction guaranteed; pens, \$1.50 per 15; range flock, \$1. Mrs. Chas. Murphy, Dexter, Ia.

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from Blake's improved egg-laying strain. Write for prices and my secret for raising better layers. GEO. F. BLAKE, MAQUOKETA, IOWA.

Barred Rock Eggs.

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Large, high-scoring birds; pen 1, \$1.50; 15, pen 2, \$1.15; \$2.50; 45; \$5.00. Hennessy Bros., Strawberry Point, Ia.

150 Bradley and Thompson B. P. Rocks

COCKERELS AND PULLETS. Henry Schlatter & Sons, Lawler, Iowa.

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Trapnested, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up. 15 eggs \$3, \$2 and \$1. Address Rev. James A. Slack - Yorktown, Iowa.

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From a strain of fine winter layers, \$1.50 per 15; \$4.50 per 50; \$8 per 100. L. L. Woods, Grinnell, Iowa.

Eckert White Rocks

were winners at Manning and Sioux City shows, scoring to 96. Eggs from grand pens, \$3 per 15. F. H. ECKERT, Charter Oak, Iowa.

White P. Rock Eggs, 15 for \$1.50; 30 for \$2; 100 for \$5

from prize-winners and scored stock; Fishel strain. Mrs. E. C. Turner, R. 1, Griswold, Ia.

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My birds are large with good shape and color, farm raised. Mrs. J. C. Anderson, Oskaloosa, Iowa.

White Rock Eggs, Fishel strain, pure white

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BARRED P. Rocks exclusively, large bones, good

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BARRED ROCK EGGS \$1 per 15; \$4

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Eggs from pens \$1.50 per 15; from flock \$1. Mrs. Geo. Dawdy, Abingdon, Ill.

18 B. P. Rock cockerels; strong, vigorous birds,

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Martin's Snow White Rocks, scoring 93% to 95%, \$1.00, 15 eggs. Utility flock \$3.50, 100. Clarence Martin, Clarksville, Iowa.

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Hawkins', Felch's and Thompson's

LINE BRED Barred Plymouth Rocks; 1st premium won wherever shown. Yards headed by high scoring exhibition cockerels. Every male bird used in 1908, and for past ten years we bought from A. C. Hawkins' and E. B. Thompson's Madison Square Garden prize-winning pen and I. K. Felch's reserved pens, and sell 18 eggs for \$1; 40 for \$2; 100 for \$4.50. This year we paid Thompson \$11.75 for one cockerel. They are an unbroken line of prize winners, weight standard and above. I mate them by standard rules. Fertility guaranteed. I am an expert caponizer. Catalog free.

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BREEDER of Barred P. Rocks exclusively for 27 years. Yards headed by cocks and cockerels scoring 92 points; first prize winners weighing 11 to 13 lbs.; hens and pullets weighing 8 to 11 lbs., with that deep strain blue barring. Eggs, \$1.50 per 15; \$2.50 per 30. Prompt shipment; eggs guaranteed fertile.

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THOMPSON & Bradley strains from high scoring males and females. Pen A--pullet mating. Pen B--cockerel mating. The very choicest. Address MRS. L. C. REESE, PRESCOTT, IOWA.

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BARRED ROCK EGGS

From winners. Heavy layers and layers, \$1.25 to \$1 for 15. Bright, Bradley and Latham strains, line bred. Satisfaction in hatch, quality, and results assured. Send for my free, handsome new catalog. Don't delay; write today. J. H. Chandler, R. 1, Des Moines, Ia.

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EXCLUSIVELY. Eggs, \$1 for 15; \$1.75 for 30; \$5 for 100. A. O. Lokken, Alta, Ia.

Barred Plymouth Rocks

Farm range eggs, \$2.50 per 50; \$1 per 100. Anthony O'Connell, Lost Nation, Iowa.

Eggs B. Rock, \$1 per 15; \$5 per 100. Geese eggs 25c,

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Buff Rocks The ideal farmer's fowl--winners

highest awards Iowa State and other leading shows this season. Stock and eggs for sale. C. & C. T. VAN LINT, Pella, Iowa.

Eggs From our famous laying strain of White Ply-

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BARRED P. ROCK EGGS \$1 for 15; \$5 for

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White P. Rock Eggs from snow white birds;

excellent layers; \$1.25 per 15; \$5 per 100. Frank Nordstrom, Aurelia, Iowa.

WHITE Plymouth Rock eggs, \$1 per 15; \$2.50 per

50; \$1 per 100. Will sell a few hens at \$1 each. Address Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

B. P. ROCKS only. Large boned, well bar., good

layers, high scoring, prize win. thirty birds, fair deal. Eggs, \$1.25; 100, \$3. J. M. Reeder, Earlville, Ia.

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BARRED ROCKS Large, heavy-boned ecls.

Eggs in season from prize-winning strain. Frank Santee, What Cheer, Ia.

Barred Rocks Large boned, good layers, farm

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choice flock of Buff Rocks; fine layers; 15 eggs, \$1; 100 eggs, \$6. C. F. Smith, Route 5, Griswold, Iowa.

Buff Plymouth Rocks and eggs at reasonable

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White Plymouth Rock eggs from scored stock

of Fishel strain, \$1 for 15; \$5 for 105. J. B. TRACY, Greene, Iowa.

EGGS From Barred Plymouth Rocks.

Heavyweight fowls a specialty. Write for prices. L. D. Wells, Morrisonville, Ill.

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Wright's Famous "bred-to-lay" strain Barred

Plymouth Rocks. A few good cockerels for sale. Lufe D. Wright, Knoxville, Iowa.

BARRED P. Rocks exclusively. Eggs from large-

boned, good shaped, well-barred birds, \$1.25, 15; \$2.25, 30; \$3, 50; \$5, 100. Arthur T. White, Emerson, Ia.

READ this if you want Barred or White Rocks

order at once. Either variety, 15 eggs, \$1.50; 30, \$2.50; 45, \$3; 100, \$6.50. Theo. Martin, Bellevue, Iowa.

EXCLUSIVELY--Barred Plymouth Rock eggs from healthy, large stock. \$1 per 15, \$2.50 per 50, \$4 per 100. Address S. S. Krebill, Donnellson, Ia.

PURE bred W. P. Rock eggs for sale from scored birds. Special price, \$1 per 13 eggs. Also a few fine ecls. White Rock Poultry Farm, Earlville, Ia.

Barred Rock Eggs for hatching from extra heavy stock; \$1 per 15; \$5 per 100. MRS. W. S. KERN, IOWA CITY, IOWA.

DUCKS.

Indian Runner Duck Eggs for Sale

9, \$1; 100, \$7. Write T. P. OVERTON, Tracy, Ia.

INDIAN Runner ducks; imported stock. Orders

booked for eggs at \$2 per 15. Pure fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

CORNISH INDIAN GAMES.

PURE CORNISH INDIANS

CORNISH Indians exclusively. Eggs for hatching from best of matings. Prices right. Address Mrs. John E. Griffith, R. 9, Washington, Ia.

MISCELLANEOUS.

S. C. BROWN LEGHORN EGGS

I am offering eggs from very large stock and the best of laying strains at 75 cents per sitting of 15. I can also furnish incubator hatches on short notice at \$4 per 100. Barred Plymouth Rock eggs from Ringlet strains, raised on separate farm, at \$1 per 15, or \$4.50 per 100. Address

H. FESSENMEYER, CLARINDA, IOWA.

Eggs For Hatching

FROM farm range stock: Barred Plymouth Rock, Buff Plymouth Rock and Single Comb Brown Leghorn. Prices reasonable. Circular free. C. E. MATTESON, Pewaukee, Wisconsin.

Eggs from High-Scoring, Prize-Winning

B. and W. P. Rocks, W. and S. Laced Wyandottes, S. C. W. and Brown Leghorns and Golden Sebright Bantams at \$1.00 per 15. Extra fine M. B. turkey and Toulouse geese eggs at 30 cents per egg. Circular free. Frank Koenen, Route 4, Mankato, Minnesota.

S. C. BUFF Leghorns; pure Tecktomire strain;

eggs, \$2 per 15; utility Bufls, \$1.50 per 15; Golden Sebright bantam eggs, \$2 per 15. S. C. Brown Leghorns, pure Cook strain, pullet mating; eggs, \$2 per 15. S. C. White Leghorns, pure V. D. Young strain; eggs, \$2 per 15. Address JOHN KEARVILLE, CENTERVILLE, IA.

ROCKS Barred and white. Also S. C. W.

Leghorns, W. Holland turkeys, Toulouse geese, Pekin and I. R. ducks. Eggs for sale at right prices. We won 110 prizes and four silver cups the past year. Address, W. M. Shaw & Co., Box 16, Monroe, Iowa.

White Plymouth Rocks and S. C. W. Leg-

horn eggs at 75c. a sitting. Prize-winning stock. You cannot get anything better for five times the money. Address, Charles L. Berry, Route 6, Iowa City, Iowa.

White Holland Turkeys B. P. Rocks, Pekin

ducks; extra large, high-scoring prize winners. Ten turkey eggs, \$3; fifteen Barred Rock, \$1.50, from laying strain; ten duck, \$1.50. Address Fred Post, Monitoun, Iowa.

COLUMBIAN Wyandottes, R. and S. C. R. I. Reds,

Barred P. Rocks, Blue Andalusians, Blue ribbon winners. Stock and eggs for sale. Write for winning mating and prize booklet. N. Buffalo Poultry Yards, J. A. Arends, Prop., Buffalo Center, Iowa.

S. C. R. I. REDS BARRED ROCKS

15 eggs \$1; 100, \$5. E. E. HEALY - - BEDFORD, IOWA.

EGGS S. C. R. I. Reds, S. C. W. Leghorns; matings

made, records kept for greatest utility results and highest fancy attainment. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

WHITE Wyandottes and Buff Orpingtons; extra

good birds, true to type farm range, bred from birds scoring 92 to 95%; satisfaction guaranteed. Eggs, \$1 per 15; \$2.50 for 50. Carl J. Hedberg, Boxholm, Ia.

EGGS for hatching--Best pen \$5. 15; 2d pen, very

good birds, \$3. 15; flock on range, \$1.50, 15; \$6, 100. Mammoth White Holland turkey eggs, \$3 for 9 eggs. Address Mrs. C. F. McLochlin, Gray, Iowa.

S. C. B. Leghorn eggs, \$3.50 per 100; Light

Brahmas, 75c. for 15; B. P. Rock, 75c. for 15; Pekin duck, \$1 for 11; Toulouse geese, \$1 for 6. J. M. CRAIG, Route 1, DANBURY, IOWA.

EGGS R. I. Red, W. Orpington, S. L. Wy-

andotte, all Rose C. Pekin and Indian Runner ducks, all bred for size and egg production. Send for circular. P. F. Smith, Montezuma, Ia.

BLACK LANGSHANS AND RHODE ISLAND REDS

Eggs, \$1 for 13; \$5 per 100. MRS. H. A. SEXSMITH, Greenfield, Iowa.

R. C. B. Leghorns. Eggs for hatching from farm

range. Won 9 ribbons and 1 silver cup at Ames show. Eggs \$1 per 15, \$4 per 100. Embden geese eggs 20c each. E. A. Taylor, Route 1, Boone, Iowa.

EGGS Mammoth Pekin, W. Wyandotte;

also Wyandotte ecls.; scored stock; sure to please. E. S. Dyan, Bellevue, Iowa.

B. P. Rock Eggs 26, \$1; 100, \$3. M. B. turkey

eggs, \$2.50 for 11. A few good cockerels for sale. Robert Hunt, Earlville, Iowa.

FOR SALE--R. I. Red, Embden geese and Pekin

ducks. Also babe chicks. Maple Lane Poultry Farm, Mrs. J. C. Kessler, R. 3, Oskaloosa, Iowa.

White Wyandotte And S. C. Buff Orpington

eggs for hatching; \$1 sitting or \$5 per 100. Mrs. J. E. Le Gassick, R. 2, Earlville, Ia.

Rose C. B. Leghorn eggs; 20, \$1; prices on lots.

Mammoth P. ducks, 9, \$1; W. Holland turkeys, 9, \$2. Mrs. L. Mather, Clarksville, Iowa.

Barred P. Rocks and Single Comb Brown

Leghorn eggs, 15, \$1.25; 30 \$2; 50, \$2.50; 100, \$4.50. J. A. PENN, Alta, Iowa.

White P. Rock and B. Langshan eggs, \$1 per 15;

\$5 per 100. Also Bourbon Red turkey eggs, \$2.50 per 10. Mrs. Vick Willis, Saline, Missouri.

WHITE Faced Black Spanish and Single Combed

Black Minorcas. Eggs for hatching, \$1.25 per 13. Peter H. Kurtz, Pleasant Plain, Iowa.

EGGS--B. Rocks, headed by Bradley Bros.' ecls.

W. Rocks, \$1, 15; S. S. Hamburgs, \$1.50; Embden geese eggs, 20c each. Mrs. H. E. Brown, R. 5, Corning, Ia.

Indian Runner Ducks, fawn and white; eggs,

\$1.50 per 11. S. C. Black Orpington eggs, \$1.50 per 15. Paul Sells, Pella, Iowa.

EGGS! EGGS! R. C. Reds, White Wyandottes

and Barred Plymouth Rocks. Write for prices. R. B. Sherman, Calamus, Iowa.

EGGS--B. and W. Langshans; S. C. B. Orpingtons; R. C. R. I. Reds; Lt. Brahmas and M. B. turkeys. Prices right. Mrs. S. E. Newell, R. 6, Audubon, Ia.

MISCELLANEOUS.

249 GOOD COCKERELS

Barred, White and Buff Rocks, White and Golden Wyandottes, Black Langshans, S. C. Buff Orpingtons, Rose and Single Comb R. I. Reds. Order now for eggs and baby chicks. Write me for prices and information. I. M. FISHER, Box 11, Hastings, Neb.

B. P. ROCKS. M. B. TURKEYS

ROCKS, best utility. Good winter layers. Eggs \$1.00 per 15; \$5.00 per 100. M. B. Turkeys, prize winning stock. Eggs, \$1.00 per 10. Address, P. J. Cooney, Box 513, New Hampton, Iowa.

There is Money in Eggs

START right. Get the laying and winning kind. Single Comb White Leghorns, Indian Runner ducks, large White Holland turkeys. Egg catalog free. Mary Culver, R. 1, King City, Missouri.

B. P.

THE SAVINGS HABIT.

To the Editor of The Homestead:

A custom is nothing more nor less than a habit, for habits make customs; a habit is a disposition or a tendency leading us to do easily, naturally and with some degree of certainty, those things, which we do often.

A savings habit, then is the tendency leading us to naturally and easily lay aside a stipulated amount of our earnings for a specific purpose. No parent who wished to have his boy or his girl become a musician, would wait until the child had become of age.

Suppose a man or a woman should not try to learn to talk until twenty-one years of age. It is evident that not only the effort, but the result as well would be a miserable failure. Then why should the habit of saving be laid aside until, as is too often the case, the boy or the girl has reached maturity?

Did you ever try to roll a large snow-ball or make a snow man? Did you notice with what difficulty the nucleus or the starter picked up the snow over which it passed? Did you also notice that after you had a good start by making a small, but firm ball, how easily the snow would adhere or stick to the ball as you rolled it along, and all the while as the ball rolled it was increasing in size?

In exactly the same manner as you made a large snow ball from a small one, can you make a small amount of money grow into a large amount. And just as easily as the snow adhered to the small ball will a small amount of money grow if placed in a savings account in some good bank.

All boys and girls should be taught early in life the necessity of economy and there is no better way than to go to your banker, and secure from him a small bank into which the child can deposit any money which may come into its possession, and at regular periods have the bank opened, and its contents placed to his credit in the bank, where it will draw two per cent or three per cent interest, computed semi-annually. To persons who have never tried a savings habit, the result will be astonishing.

The beauty of this system lies in the fact that while you are sleeping your money is working, never ceasing, but increasing in value at the rate of two or three cents as the case may be, on each \$1.00 deposited. For instance if you deposit \$1.00 on Jan. 1st, one year from that date, instead of having the original \$1.00 to your credit you will have \$1.03, and so on until at the end of ten years your money will have increased more than thirty-three and one-third per cent without your ever having turned your hand. Larger amounts will, of course, increase in the same proportion. The above is simply given as an easy illustration for the boys and the girls who read this paper. Get into the savings habit, start a savings account with your home banker, thereby building for yourself a foundation on which the superstructure of all commerce and finance must rest.

Illinois. O. A. James.

AMERICAN BERKSHIRE ASSOCIATION PREMIUMS.

At a recent meeting of the directors of the American Berkshire Association, over \$2000.00 was appropriated for cash prizes and cups to be offered at the fairs of 1910.

At the American Berkshire Congress Show to be held in connection with the Iowa State Fair, the American Berkshire Association will offer \$618.00, thus duplicating the prizes offered by the Iowa State Fair. In addition, the Iowa State Berkshire Association will offer additional cash premiums so that the total amount of premiums offered for Berkshires will aggregate \$1,500.00.

At the International Live Stock Exposition, Chicago, Ill., the American Berkshire Association will add \$325.00 to the regular premiums offered by the International for Berkshire barrows. In addition the association will pay \$100.00 if the grand

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

BARGAIN corn farm, 160 acres 35 miles from Iowa line, near Mountain Lake, Minnesota, on main line of Omaha R. R. Over 100 acres under cultivation, balance now in hay and pasture. Best of soil. Creek of running water. Fair buildings, practically new. Farm rented for 1910. Offered for immediate sale at low price of \$45 per acre. Easy terms. Perfect title. Positively no trades. Considered one of the best quarters in Cottonwood County. Write the owners, E. M. Kleron Land Co., 320 Endicott Bldg., St. Paul, Minnesota.

THE PLACE for you, both for pleasure and profit, is Clackamas county, Oregon. Climate mild, scenery finest, soil most fertile, markets best. Thriving county seat only twelve miles from Portland, metropolis of Pacific Northwest, with connection by river and rail. For illustrated literature, write Dept. O, Commercial Club, Oregon City, Oregon.

MONTANA—If you want a farm of any kind, little or big, for hay, grain, stock or fruit, irrigated or unirrigated, in a land of sunshine and good water, write us. We raise 30 to 50 bushels wheat without irrigation, and everything else in proportion. Write, stating your wants. Montana Land Co., Bozeman, Montana.

FOR DARK RED or chocolate loam, level or rolling prairie farm lands, all tillable, good water, schools, churches, healthful climate, plenty rain, near town, on railroad, in Northwest Oklahoma; lowest prices, cash or terms; write the McLendon Land Co., Ayard, Woods County, Oklahoma.

WARD COUNTY, North Dakota, farm land. Well improved farm land, \$20 to \$40 per acre, near Minot, N. D. This land, properly farmed, will pay for land every two years. Will send list of farms owned and for sale to inquirers free. Easy terms. F. J. Lyman, Minot, North Dakota.

152 ACRES, 27 miles from Minneapolis. 80 acres under cultivation, 30 acres hay, balance timber. Fine set of buildings; good well and windmill; also running water. Price, \$50 per acre; reasonable terms. Twin City Loan & Realty Co., 348 Security Bank Bldg., Minneapolis, Minnesota.

FLORIDA—Fortunes are being made raising vegetables in Florida. Don't put a dollar into anything until you write for our valuable book of facts, showing what others are doing. We merely ask you to read the facts—that's all. Address Florida Land Co., Chipley, Florida.

FOR SALE—Four choice farms in the Red River Valley; one of 640 acres, one of 480 acres, one of 320 acres, one of 160 acres. Income from these farms runs from \$4 to \$8 an acre annually. John Wyman Farm Land & Loan Co., Fargo, North Dakota.

BRITISH COLUMBIA—Fort George lands; 50,000 acres fertile wheat and mixed farming lands; send for photographs and surveyors' reports. The Wright Investment Co., Dominion Trust building, Vancouver, B. C., Canada.

WANT A FARM in Oregon? Of course you do. Write at once for large list of Willamette Valley farms with descriptions and prices. Starr & Foster, 1022 Board of Trade Building, Portland, Oregon.

IOWA FARMS raise big corn crops. Come to Mason City, Iowa, and see some of the finest land in the world, at prices from \$55 to \$100 per acre. Franke Land & Investment Co., Mason City, Iowa.

FOR SALE by owner; 320 acres extra choice unimproved land, located eleven miles from town in Hyde County, South Dakota. Price, \$26.50 per acre. J. N. King, Highmore, South Dakota.

RARE BARGAIN—Nine residence lots in Forestburg, Sanborn County, South Dakota. Everything right. Will sell cheap if taken at once. W. H. Shadbolt, Lafayette, Indiana.

MINNESOTA LANDS—I have some exceptional bargains in improved farms in Pope County, Minn. Write for list. W. E. Martin, Sedan, Minnesota.

TWO VIRGINIA FARMS for sale; improved; timbered; smooth; well watered; 687 and 185 acres. J. Singleton Diggs, Lynchburg, Virginia.

VIRGINIA stock farm, 231 acres; 1 mile town; improved; no blizzards; cheap for cash. F. M. Rand, Keysville, Virginia.

KANSAS FARMS, one fifth down, balance time. Dillon & Woodward, Dill, Oklahoma.

champion car load of barrows of the show are Berkshires. They will also offer silver cups valued at \$50.00, for the champion barrow, champion pen and champion carcass of the show, if such championships are won by Berkshires.

At the American Royal Live Stock Show, Kansas City, Mo., the association will duplicate the premiums offered by the management of the show up to \$250.00.

The American Berkshire Association will also offer a silver cup valued at \$50.00, for the best young herd exhibited at each state fair, where a separate classification is provided for Berkshires and where the state Berkshire association offers a second and third prize.

AMERICAN HEREFORD RECORD.

Volume 33 of the American Hereford Record has just come from the press. It contains entries from 305001 to 325000, inclusive, together with many illustrations of some of the best representatives of the breed. This volume should be in the hands of every man who has a pure-bred Hereford on his farm. Those interested should communicate with Sec. C. R. Thomas, Kansas City, Mo.

This sad story is from the Great Bend (Kansas) Tribune: "The dispatches tell of the sad case of a woman of Seaford, Del. Her feet began hardening several months ago and now she has hoofs like a cow and can't wear shoes and nobody loves her."

REAL ESTATE.

HURRY—If you want your choice of the selected bargains in Hampden farms, North Dakota lands are in unusual demand this year. Busy? We are up to our eyes in work, answering inquiries and showing lands. If you haven't yet sent for our interesting literature on this favored section, where choice improved and unimproved farms may be had at \$25 to \$35 an acre, write today. Agents wanted everywhere. Shipley Investment Co., Box 303, Hampden, Ramsey County, North Dakota.

NORTH DAKOTA wheat and flax land. Solid section very close to west extension of N. P. and C. M. & St. P. Rys. in Hettinger County. Steam plow can break all but about 40 acres. Finest of soil and water. Offered for next 30 days at \$20 per acre; ½ cash, balance 4 equal annual payments at 6%. Positively no trades. Title perfect. Write owners, E. M. Kleron Land Co., 320 Endicott Bldg., St. Paul, Minnesota.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

LANDS FOR SALE and exchange. We have a large exclusive list of improved farms and wild land for sale in the Red River Valley of Minnesota, some of which can be exchanged for other properties. Agents wanted; liberal commissions paid. Address J. E. Carpenter Land Company, Crookston, Polk County, Minnesota.

NORTH DAKOTA farm for sale; 480 acres, located eight miles north of Spring Brook; good buildings; 120 acres under cultivation; pasture; windmill; rural free delivery; good prairie land; thriving community; \$15 per acre; part cash and part on time. For particulars write E. R. Brownson, Williston, N. D.

240 ACRES; Eastern Kansas; highly improved; joining White City. Best of schools; fine churches; 14 passenger trains daily; fine orchard; 100 acres timothy, clover and alfalfa. Price, \$18,500. Write for description. Bacon & Brittain, White City, Kansas.

WE HAVE for sale about a dozen choice farms in the very best part of Southern Minnesota at prices ranging from \$55 to \$70 per acre. Write for particulars to Mapleton State Bank, Mapleton, Minn.

NORTH DAKOTA LANDS on ten years' time, crop payments at 6 per cent interest. Stutsman Co. Rich soil. Map and particulars on request. Address Frank L. Kellogg, Cleveland, North Dakota.

FOR SALE—\$20,000, 6 miles from market; good buildings; worth \$22,000. Land all level; rich soil; 250 acres cultivated; \$28 per acre; \$1,000 cash, balance 6%. Brush-McWilliams Co., Minot, N. D.

SEND FOR BULLETIN containing over 200 well improved farm bargains in Chicago County, Pine County, Minnesota, and Polk County, Wisconsin. Akerson, Lindstrom, Minnesota.

MONEY—I will pay your expenses, put you in touch with owner, and sell you land at lower prices on easy terms that is sure to advance soon. B. C. Welch, Texhoma, Oklahoma.

FOR SALE—Several fine farms in one of best farming districts in Iowa. Railroad fare refunded prospective purchasers. Write for particulars. C. W. Soesbe, Greene, Iowa.

154 ACRES—9 room house; barn 40x50, nearly new; 4 miles to railroad town; 25 acres timber; \$1,800, \$900 cash. Hall's Farm Agency, Owego, Tioga County, New York.

OKLAHOMA, Custer Co. 320a grain and stock farm; 2 miles railroad town. Good improvements, well watered. \$30,000. C. A. Fisher, (Owner), Custer, Oklahoma.

VIRGINIA FARMS at eight to fifteen dollars per acre. Land good. Mild and healthful climate. Write for catalog. Jeffreys, Hester & Company, Chase City, Virginia.

FARM BARGAIN—640-acre, finest section in Clarke Co., South Dakota; \$15,000 new improvements at \$68 and 1120-acre at \$35. Write S. Sanders, Sioux City, Iowa.

FOR SALE by owner; sections of general farm land and 280 acres timber lands close to Duluth. Price and terms reasonable. Al. Knehnaw, Duluth, Minnesota.

90 ACRES; heavy soil; well cultivated; good meadow; buildings; three miles county seat; excellent stock farm; \$4,000; terms. H. J. West, Foley, Minnesota.

FREE FUEL FARMS. Mild climate, free fuel, natural gas. Prices \$20.00 to \$40.00. Address, Geo. Hill, Independence, Montgomery Co., Kansas.

CASH for property, any kind, anywhere. If you want to buy, sell or exchange, address Northwestern Business Agency, Minneapolis, Minnesota.

SNAPS! SOUTH DAKOTA, North Dakota, Montana. Write us your wants. Lists and maps free. P. I. Neister & Co., Sioux Falls, S. D.

BARGAINS in farms and school leases. Fine climate, good soil, short winters. Circular free. A. J. Haskins, Hunter, Oklahoma.

FOR SALE—Wheat, alfalfa and ranch land at lowest prices. Any sized tracts, raw or improved. C. N. Owen, Alamota, Kansas.

320 ACRES prairie land 6 miles northwest of Yankton, \$30 per acre. Terms. A. E. Lindstrom, Yankton, South Dakota.

CASH for your property, less than 90 days. Real Estate Salesmen, Lincoln, Nebraska, 219 Funke.

FARM HOMES. Easy terms. Todd Bros., Salem, South Dakota.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information, Des Moines Engraving Company, Des Moines, Iowa.

DOGS.

FOXHOUNDS—Pedigreed Birdsong and Walker strains. Most successful coon, wolf, fox and cat dogs known. Will rid your neighborhood of coyotes. Sent on ten days' trial. R. F. Johnson, Assumption, Illinois.

AGENTS WANTED.

AGENTS WANTED in every community to sell "Vigor Tonic"—guaranteed best all around stock powder on market. Liberal commission. Farmers' Co-Operative Remedy Co., Peoria, Illinois.

PONIES.

FOR SALE—25 Shetland ponies, imported and registered. Mares and geldings broke for children. Stallions to lease. Price list ready. Geo. H. Simpson, Wheaton, Ill.

CATTLE.

GUERNSEYS—"The Butter Breed"—choice youngsters; both sexes; from official record and advanced registry ancestors. A. H. Hinman, Allen-ville, Wisconsin.

POULTRY.

SINGLE COMB Buff Orpington eggs for hatching, from my celebrated winter laying strain, scoring 92 to 94. Scientifically mated for best results. Eggs, \$4 per 15. Dr. Beaver, Harlan, Iowa; member Buff Orpington Club.

SINGLE COMB Brown Leghorns, Houdans and Buckeyes. Eggs from selected stock, 15, \$1.50; range flock Leghorns, 30, \$1; 100, \$3. Indian Runner duck eggs, 13, \$1; 100, \$6. E. A. Kaufman, Lockridge, Ia.

SINGLE COMB White Leghorns. Standard bred; extra good layers. Eggs—fine pen headed by cockerel direct from Eastling, \$2 per 30, farm range flock, \$4.50 per 100. L. Z. Craig, Charleston, Illinois.

WHITE PLYMOUTH Rock eggs from my prize-winning pens at \$2 per 15; 30 for \$3.50; from farm range, \$5 per 100. Bred them 12 years. Satisfaction guaranteed. Bertel Hansen, Rt. 2, Alta, Iowa.

BARRED Plymouth Rocks exclusively. Large boned, good layers; 15 eggs, 75c; 30, \$1.40; 100, \$4. Satisfaction guaranteed. Mrs. Geo. W. Saunders, Mrs. May Stith, Marcelline, Missouri.

WATTS' BARRED Plymouth Rocks. Eggs from stock scoring up to 92½ points, and winners at Des Moines Poultry Show, 1908. Eggs, \$1.50 per 15; \$2.50 per 30. J. C. Watts, Berwick, Iowa.

SILVER LACED Wyandottes exclusively, winners at several shows. Eggs for hatching, 26, \$1.35; 100, \$3.50. Circular free. John A. Johnson, Route 2, Pilot Mound, Iowa.

EGGS from select pens of Partridge and Columbian Wyandottes, Buff Rocks, Houdans, S. S. Hamburgs, Blue Andalusians, \$1.50 per 15. A. Arends, Blairsburg, Iowa.

INDIAN RUNNER Duck eggs \$2 per 13. High scoring silver laced Wyandotte eggs, \$1.50 per 15, \$5.00 per 100. Mrs. Theron Culver, Garnett, Kansas.

BARRED P. Rocks—Prize winning strain. Large, excellent layers. Satisfaction guaranteed. Eggs \$1, 15; \$4.50, 100. Mrs. N. Paulson, Route 5, Harlan, Ia.

BARRED Plymouth Rocks, pure bred, extra good ones; have range of farm; sure hatch; 15 eggs, \$1.50; 100, \$4. Mrs. James Stephen, Revere, Missouri.

WHITE WYANDOTTE eggs, \$3 for 2 sittings. Hens mated with cockerel direct of Fishel. Address Mrs. Theresa Oswald, Bridgeport, Wisconsin.

SINGLE COMB white, black, buff, Orpington and Barred Rock eggs. Best known strains. Send for mailing lists. Spurgin, Pandora, Iowa.

EGGS from high-scoring Barred White and Buff Plymouth Rocks; 15 eggs, one dollar; 45 eggs, two dollars. A. Mathews, Mt. Union, Iowa.

GOLDEN BUFF Leghorns, Single Comb winter laying strain. Eggs 15, \$1; 50, \$2.75; 100, \$5. John Danielson, R. 1, Lockridge, Iowa.

WHITE WYANDOTTES exclusively. Eggs from pen 15, \$1; range, two sittings, \$1.25; 100, \$3.50. Mrs. Ira J. McKinley, Melrose, Iowa.

THE FAMOUS Rhode Island Whites, greatest laying strain on earth. Eggs, 15, \$1; 50, \$5. Mrs. Fred Obright, Genoa, Illinois.

ROSE COMB Rhode Island Reds; Eggs \$1.75, 30; \$5.00 per 100. Choice stock, farm range. Mrs. John Holmgren, Rolfe, Iowa.

CHOICE Barred Plymouth Rock eggs, 15 for \$2 or 100 for \$6. Rosalie Newberry, Box 6, Argyle, Lee County, Iowa.

TWO GOOD Mammoth Bronze turkey toms for sale. For prices, write to Chas. E. Georgan, Worthington, Iowa.

WHITE WYANDOTTES—Prize-winning strain. Eggs, \$1 per 15; \$6 per 100. M. E. Nourse, Fairbank, Iowa.

PURE INDIAN Runner Duck eggs, thirteen for one dollar. Anna Pratt, Beaver Crossing, Nebraska.

INDIAN RUNNER duck eggs, 10 cents. White Wyandotte circular free. M. L. O'Neil, Oelwein, Ia.

SILVER LACED Wyandotte eggs, \$1 per 15; \$5 per 100. Mrs. Walter N. Brown, Shannon, Iowa.

BARRED PLYMOUTH rock eggs, \$1.50 per 15 or \$8.00 per 100. Aye Bros., Blair, Nebraska.

TOULOUSE GESE and Pekin duck eggs for hatching. Frank Martin, Clare, Iowa.

SINGLE COMB Reds. Eggs, \$1 and \$1.50 per sitting. Hites Bros., Beacon, Iowa.

BUFF Wyandotte eggs; 15 eggs, \$1.50. Mrs. W. J. Pratt, Maple Park, Illinois.

SINGLE COMB White Leghorns. Eggs \$1 per 25. M. E. Page, Madrid, Iowa.

GRAND Rose Comb Reds. Eggs \$1 np. B. Russell, Lamoni, Iowa.

HELP WANTED.

MEN WANTED—To prepare for the next railway mail, postoffice carrier-clerk, internal revenue and custom house examinations. Salary, \$50 to \$125 monthly. Rapid advancement to higher government positions. No "lay-offs" because of poor times. Short hours and annual vacation with full pay. Over 15,000 appointments to be made during 1910. City and country residents stand equal chance for immediate appointment. Common education sufficient. Political influence not needed. To advertise our schools, we are preparing candidates free. Write immediately for schedule showing dates and places of the spring examinations. Immediate action is necessary. Franklin Institute, Dept. R.25, Rochester, New York.

WANTED—An elderly soldier, who is soon to locate on his homestead right in the Standing Rock reservation, wishes to secure the assistance of a young married couple, the man to help in opening up the claim, the wife to cook and look after the household duties. To the right parties he will give the use of the land for five years. Address M. L. W., care of this paper.

GOVERNMENT farmers wanted. Salary \$500 yearly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Ozment, Dept. 42, St. Louis, Missouri.

WANTED—Railway mail clerks; \$100 and more monthly; 2,000 to be appointed. Examinations soon. Write for application form 11 and full particulars. American Standard Institute, Kansas City, Mo.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination. Write for schedule and free trial lesson. Ozment, Dept. 42, St. Louis, Missouri.

PATENT ATTORNEYS.

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1011 Kaufman Ave., Dubuque, Ia., Feb. 11, 1909.
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Gentlemen:—Please send me your book called "Treatise on the Horse." I have used your Spavin Cure for years. At present I am doctoring a horse that has a Ringbone. This will make the sixth one we have cured with your medicine. It has given the best of satisfaction in all cases.
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Have do Grace, Md., Dec. 7, 1909.
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During 1908 I had two horses go wrong, one with a "bone spavin" and a big knee.
After reading your advertisement week after week I had Mr. Fahy order for me one bottle of "Save-the-Horse," which I thought I would simply try. I used it on both cases, following your directions. I gave them both road work until I had consumed the one bottle only, which took just two months. And to-day I shall say just one year has elapsed since the treatment, that they both are as sound as a new dollar and neither one has taken a lame step since. EDWARD T. WELSH.
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Send for copy, booklet & letters from business men & trainers on every kind of case. Permanently cures Spavin, Thoroughpin, Ringbone (except low), Curb, Splint, Capped Hock, Windpuff, Shoe Boli, Injured Tendons & all Lameness. No scar or loss of hair. Horse works as usual. Dealers or Exp. paid.
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PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

HEMORRHAGIC SEPTICEMIA.

Will you please tell me what disease is killing my cattle, also a preventive and cure, if there is a cure? These are the symptoms: The first that I have noticed, they stand around, eat but little, get weak in the legs. The hind legs are most affected, and when they get down are unable to get up unassisted. After a few days their appetite becomes good and they drink about the usual quantity of water. Some of them gain strength enough to get up alone, then they grow weak and lose the use of their legs, and after a few days die. One died in less than twenty-four hours, while others lived from one to two weeks.

Notify the state veterinarian or his deputy to make an investigation, as we think the disease is hemorrhagic septicemia, taking it for granted, of course, that the cattle have not been starved during winter. The disease named is incurable, due to a specific cause and contagious. It will be necessary to change feed, keep cattle off affected land and out of infected stables. This will be directed by the veterinarian.

COUGH—TEAT FISTULA.

(1) Please advise me what to do for a horse that has a dry cough. I don't know whether he has heaves or not, but he coughs quite often, a dry, barking cough. Have fed straw and corn.
(2) I also have a cow who has a hole on the side of the teat and when milking, or rather stripping, the milk comes through the hole. Any advice will be greatly appreciated.

(1) Wet all food and prefer oats and bran to corn at this time of the year. If gas is passed from rectum at time of coughing give half an ounce of Fowler's solution of arsenic night and morning; otherwise administer half to one ounce of glyco-heroin two or three times daily as found necessary to control cough. (2) Until cow dries off paint fistulous opening twice daily with flexible collodion to prevent milk from leaking. When dry have the fistula operated upon by a qualified surgeon. Such conditions have to be skillfully handled. Sometimes they close if a red-hot knitting needle is used to burn the sides of the sinus (pipe) and then iodoform powder is dusted on once daily.

STERILITY.

I have a fine three-year-old Durham cow (red) that gave birth to a fine heifer calf last July. I have bred her four different times and to three different bulls, but failed to get her with calf. She comes in heat regularly, and a day or two later discharges a bloody, ropy substance. In one instance the rope was six or eight feet long. She eats well and is in fair condition, giving about five or six quarts of milk per day. Is her milk fit for use? I have given her no treatment. Will you please answer in the veterinary columns of your paper and prescribe treatment?

The milk is fit for use if the cow has been tested and found free from tuberculosis. Twice a week inject into the vagina half a gallon of lukewarm water containing half an ounce of pure phosphate of soda and when she comes in heat have the mouth of her womb opened by some one who knows how to do the work. Then inject the solution into vagina and have her bred an hour or two later. If she again comes in heat repeat the treatment with soda solution, but do not again open womb.

MANGE.

My hogs are affected with the scab all over their bodies; I think that is what it is called. It itches and they seem to rub themselves all the time. The hair comes off on some places where they rub the most. When the sows have little ones they get it, too. I have some just three weeks old and they are covered with it and are getting poor. They scratch all the time, or rub against some board fence, and I don't know what is the cause of it. Our hogs get it every year, in fact, they never lose it. It is contagious, and in some places on the old sows it is about half an inch thick. Will you let me know what to do?

The disease is parasitic and cannot be got rid of unless you perfectly cleanse, disinfect and whitewash every place where the hogs have been

kept. Each affected pig will have to be sprayed and scrubbed or dipped and scrubbed in a solution of coal tar dip and sulphur made according to directions given by the manufacturer of the dip. It will be necessary to repeat the dipping at intervals of ten days until the disease is cured. New pens and yards may have to be used until the disease is stamped out.

LAME STEER.

I have a two-year-old steer that drifted out in a heavy snowstorm in November last, and was gone about ten days before I missed him. I then got him back to the yard, but he was slightly lame and was getting thin. He has not done well since, and his lameness got worse until now, and for perhaps a month past, he goes on three legs. The foot seems slightly swollen above the hoof and a little raw on one side of the coronet. What do you recommend for this? At the time he drifted away he had not fully recovered from castration a few days before.

Affected part may have been frosted or bruised. Clip off the hair; paint the sores with tincture of iodine and then cover with boric acid, clean, cotton batting and bandage. Renew the dressing daily until healed.

MANGE—BONY GROWTH.

(1) I have some Poland China pigs about six months old that have some kind of mange. Their skin becomes scabby and is very itchy, as they scratch till they tear the hide off. They also have a cough and have no appetite, although they have been getting all the ear corn they would eat all winter. I just changed the feed to corn, oats and barley ground together, and fed dry. They also get salt and ashes once a week. (2) I also have a gray horse colt, coming two years old, that has two small, hard enlargements on the inside of his hind legs up at the hock joint. They are not sore and are causing no lameness. I first noticed them about three months ago. They do not seem to be growing any. I have not done anything for them, and any information on these cases will be greatly appreciated.

(1) The skin disease may be eczema associated with overfeeding corn. Dirty, wet beds also induce such conditions of the skin (itch mange). Stop feeding corn. Mix limewater freely with the slop in which form feed middlings, bran and flaxseed meal. Give one dram of granular hyposulphite of soda once daily to each pig. Dip in coal-tar disinfectant solution once a week, or spray and scrub with it thoroughly. (2) The bony tumors may be small spavins and they should be let alone, as they do not cause a lameness and interference may stimulate them to grow and cause trouble.

Ask your neighbor to subscribe for The Homestead.

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If you are interested in carriages ask your dealer to show you the Kratzer line. If he cannot, it will pay you to go to another dealer—it is worth the trouble.

Write for a copy of our booklet, "Some Inside Facts about Kratzer Vehicles." It will tell you some things you should know before buying a vehicle.

Kratzer Carriage Company, 104 South First St., Des Moines, Iowa

KRATZER QUALITY CARRIAGES

DEEP OR SHALLOW TILING.

To the Editor of The Homestead:

A Wisconsin subscriber sends the following communication:

I am writing you for information upon some tiling I have had done. It does not seem to be working properly. The land tiled consists of about twenty-five acres of marsh. The soil is muck and peat, with one or two spots of fine sand. The peaty portion and the south end of the marsh where there is little seepage from the upland is in good shape and the water seems to drain off rapidly. But there is a strip around the north end where there is considerable seepage from the upland in which the water does not find its way into the tiles. The tiles are laid about four rods apart and from three to four feet deep, that is, the laterals, which are four-inch tile. The main tiles run as deep as seven feet. My idea was that these laterals on the north side were laid too deep, as the sub-soil is a very tenacious clay. I believe the tile was properly laid in respect to fall, etc. In some places on the peaty portion the tile is four and one-half feet deep. I raise good corn on the southern and central portions of this land, but on the northern part it was a failure.

I note what you say as to your tile not working, particularly, at the foot of the upland. I hardly think that the tile are laid too deep, because tile properly laid should be fully better when laid deep, except, of course, when it is desirable to remove surface water quickly. The condition at the foot of the upland could be remedied by laying the tile about three feet deep parallel to the foot of the hill and at right angles to the direction of the seepage. Lines thus laid are in better shape to intercept the seepage and conduct it to the main tile.

E. R. Jones.

MEASURING HAY IN ALFALFA STACK.

To the Editor of The Homestead:

I noted in a recent issue of your paper, under the heading, "Measuring Hay in Stacks," you give your readers what is known here as the "four rule" but omitted to give the cubic feet to the ton. This is largely a hay country, and stacks of from 200 to 500 tons of alfalfa are common. Each fall this is sold to sheepmen who bring in hundreds of thousands of sheep to winter, and in measuring they use what is known as the "two rule," which is considered the most equitable. Our stacks are usually about thirty feet wide and from sixty to seventy feet over, and are well-settled at measuring time, which is from October first to November first, according to contract. Under the "four rule" the hay would fall short, but with the "two rule" it holds out fairly well. This latter rule is as follows:

Subtract the width from the over and divide by two; multiply this product by the width which gives the square feet in end of stack; multiply the square by the length and the product is the cubic feet, which divide by 512, the number of cubic feet in a ton. Of course, there are certain sized stacks which come out the same under both rules; for instance, a stack twenty-four feet wide and sixty feet over.

Sylvester Hill.

Canyon county, Idaho.

RAPE IS A VALUABLE CROP.

To the Editor of The Homestead:

That valuable farm crop, rape, is not as generally grown as it should be. It can hardly be surpassed as a pasture and soiling crop for hogs and sheep, or even for horses and cattle, especially when a quick-growing, annual crop is desired. It offers summer and fall pasture of the highest order with spring seeding, something that can be claimed for very few other plants. It can be grown on almost any soil that will produce a good crop of roots, and can be depended upon to furnish very heavy yields of most excellent food. In feeding value it is as good as clover, and can be used for either growing or fattening purposes with success. Rape is a feed that stock like exceedingly well after they have once become accustomed to it, and the results from its use are always pleasing. These facts I would dare state had I not had experience in growing and feeding this plant.

Rape can be sown any time after spring weather has permanently arrived, as early as most all grain crops, and thereafter until the end

of summer. This wide range of seeding allows almost continued soiling from this one crop from early summer until the end of autumn. The plant usually requires from eight to ten weeks to complete its growth. It may be fed or pastured as soon as its development will justify, and if not cut or pastured too closely it will grow up a second and even a third time.

In seeding the crop broadcast, from three to five pounds of seed are required to the acre. If sown in drills, from one to two pounds of seed will be sufficient. The quality and condition of the soil will govern the exact amount, lighter seeding being used on rich and clean ground. The condition of the seed bed should be fine, firm and moist. A light top dressing of manure may be applied, and the



ENLARGING THE SILO FIELD.

Originally the silo came into use solely as a means of affording to the dairyman grass conditions during those periods of the year when grass was not obtainable. It has almost been looked upon as a special adjunct of the dairy. This idea is a faulty one because any condition or any manner of feeding which will benefit dairy cattle will be equally beneficial to feeding cattle. The illustration given herewith shows a bunch of Hereford feeding cattle that were fed silage and that made remarkable and unusual gains as a result. As a fact, silage is an invaluable food for any class of farm stock, horses, cattle, hogs and sheep are all benefited by the splendid substitute for green feed at a time when grass is not available. A good many important facts on the silo and silage question and statistics showing facts not generally appreciated may be learned from a booklet issued by the Kalamazoo Tank and Silo Company, Kalamazoo, Mich. Readers of this paper may secure a copy of this book free of charge by writing to the address named.

crop responds very readily to such treatment. As a soiling crop it is desired to secure all the growth possible, so the more perfect we can make the conditions, the greater will be the results.

There are several varieties of rape, but the one which possesses the most economic value is the Dwarf Essex. The seed may be secured from most if not all seedsmen. The crop is worthy the attention of any farmer who wishes a good supply of valuable summer soiling feed.

W. H. Underwood.

SOME FACTS ABOUT DUCKS.

To the Editor of The Homestead:

The following communication has been received from an Illinois subscriber:

Will you please tell me something through the columns of your paper about the Mallard ducks and their habits? How many ducks can be kept with one drake, and about what time of the year do they commence to lay? Is it best to set the eggs under hens or let the duck hatch her own brood?

There is no standard breed of ducks called Mallard. The real name "Mallard" applies to a species of wild ducks; they are the largest of all wild ducks. I would say, however, that the variety of domesticated ducks called the "Rouen" have a close resemblance to the wild Mallard. In fact, it is claimed upon good authority that the original blood of the Mallard was used in the make-up of the Rouen, but by close selection and early hatching the Rouen has been brought to about twice the weight of the original wild Mallard. They are prolific layers of nice, large eggs of a pale green color. They do not thrive so well without water to bathe in as do the Aylesbury or Pekin, but the young are just as easy to raise. However, I would like to advise our correspondent that there are other things to think of in selecting a foundation stock to do business with, besides habits, color, etc. If he will watch the market closely he will note that white ducks are always from one to two cents above the colored varieties.

This is not because the meat is any more sought after than that of the colored birds, but because the feathers are today quite a margin of profit and the white feathers are of course in greater demand than the dark.

A healthy, potent drake can safely be mated to six or seven ducks and a reasonable fertility may be expected. If water is to be had to swim in, one or two more might be added; otherwise, six would be about all I would allow. It is very common, however, among duck families for the drake to be entirely impotent, so it is always safer to have one in reserve and to test your eggs just as soon as you can after they commence to lay. Do not, however, expect a strong fertility at the beginning of laying, for it seldom happens in that way, even with a good, potent drake. The fertility al-

housing, and a dry, warm place to sleep, without disturbance, is concerned, they can be made to lay in winter just as easy as the hen. This is where our eastern duck raisers make their greatest profit. They follow but little, if any, late hatching, as there is very little profit in it for them.

The incubator is by all means the ideal way to incubate duck eggs. That is my first recommendation; the second would be the hen. If you are only hatching a few the hen is all right, but for wholesale work the incubator comes first. Under no conditions would I allow the duck to do her own hatching and brooding. That is entirely out of the question today. It may happen occasionally when the laying season is pretty well passed, that if allowed to seek her own nest a duck may bring forth a brood of ducklings, but it is a rare happening today. There is no doubt in my mind that as years have gone by the true broody desires have been entirely bred out of the duck by not being allowed to do any incubating whatever on these large eastern duck ranches. For years before the incubator came into practical use, all duck eggs (or nearly so) were incubated by hens, and then as the incubator was perfected, they were employed to do the hatching and the old duck was still kept from her real, true broodiness. So, today, I think I am not the least out of order in saying that the day of true broodiness has passed for the duck and I predict that the day is not far distant when the same will apply to the hen. How can we expect otherwise of any race of fowls be it the turkey, goose, duck or hen, when they are robbed of their instinctive nature from generation to generation? It being permanently instilled in all their offspring, it is only reasonable to expect this. It is the evolution of man

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The "Marlin Book" of 136 pages, with handsome art cover, is jam full of up-to-date information for all gun-lovers and gives full description of all Marlin repeaters. It's FREE for 3 stamps postage.

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Direct gear drive. No chains to wear out. No shoes. Double strength rake bars, with spring joints that adjust them to rough or stony ground. Rakes raised at will. Runs smooth. No vibration. Light draft. Easily handled. Best seasoned wood used in construction. Guaranteed against defects. Mr. Mart O'Boyle, Lost Nation, Iowa, used one for 15 years. Send for descriptive circular.

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and what a godsend it is, too. What would poultry be worth in the market today had not the incubator come into practical use? In fact, it is safe to say that the price would be beyond the reach of all common people, so let the good work go on.

C. E. Matteson

PLEAS FOR GAME PRESERVES.

A great many states are establishing forest reserves which easily could be made game refuges also. New York has in her northern forest regions one and one-half million acres set aside, and that state is appropriating more and more money so that eventually the whole Adirondack region will be a forest reserve. Wisconsin has 314,000 acres reserved, and ought to have 1,600,000. Pennsylvania already has 600,000 acres reserved, and is adding to her admirable bank account from time to time. Slashed-off Michigan feels she can set aside 200,000 acres as a reserve. Minnesota, the more recent scene of lumbering operations, should increase her 40,000 acres. In each one of these state reserves, there could be established a perpetual game refuge.

This, and much more, certainly would be done if the government at Washington or at the state capitals really knew anything about the terrible insistence of the American people on outdoor sports. They want something to kill; will go anywhere to kill it. In five years there will hardly be left a big game animal alive west of the Mississippi river, unless on some protected tract. Has the government at Washington, in its plan for a commercial nest egg, reflected upon the necessity for including wild game under the same sheltering cloak that it offers to wild trees? Asking such questions at times one becomes disgusted, knowing that the answer will be of a commercialism wholly without intelligence or thrift.—(Saturday Evening Post.)

CONSUMING MORE WHEAT.

If the government estimates of the crops, and of farm reserves, are correct, this country has consumed 50,000,000 bushels more wheat and 100,000,000 bushels more corn, thus far during the current crop year, than were used during the corresponding period last year. These figures are based on the movement of grain, in connection with the farm reserves reported last week by the National Agricultural Department. There may be, and probably are, errors in the official figures which make the consumption appear greater than it actually has been, but there is no doubt of a largely increased use of wheat for food in the United States. The extraordinary milling demand last summer, fall and winter is evidence of it. The reason is that meats and eggs have been so high that many persons have eaten more bread and less of the high-priced foods.

According to reports compiled by the statisticians at Washington farmers held 173,344,000 bushels of wheat on March 1st, or 23.5 per cent of the crop. This is only 30,000,000 more than the farm reserves a year ago.

The crop of 1909 and the farm reserves on July 1st were 54,000,000 bushels more than those of 1908, and exports in the past eight months were about 26,000,000 bushels less than in the same time last year, making 80,000,000 bushels more for home use. The government reports 30,000,000 bushels more on the farms now than a year ago, and supplies in second hands show about the same increase since July 1st last, as in the corresponding period of the preceding year, so that apparently about 50,000,000 bushels more wheat has been used up to date than in the corresponding time last year. At the same rate, the home consumption for twelve months ending next June will be 75,000,000 bushels more than in the preceding year. If these figures are correct, supplies of wheat prior to the next harvest will be about as near to the point of exhaustion as they were last June.

The government report makes the farm reserves of corn in the United States 1,050,865,000 bushels, or 37.9 per cent of the crop in 1909, compared with 1,047,763,000 bushels, or 38.2 per cent of the crop a year ago. As the

production in 1909, as officially estimated, was 104,000,000 bushels more than that of 1908, with little difference in exports, and only 3,000,000 bushels more now on the farms than a year ago, it appears that the country has consumed 100,000,000 bushels more corn to date than in the same time last year.

The increased consumption is attributed to the cold winter and the unusually long period during which pastures were covered by snow. All animals require more feed in cold than in mild weather.

Farm reserves of oats are 363,159,000 bushels, or 36.1 per cent of last

year's crop, compared with 278,847,000 bushels, or 34.6 per cent, of the crop a year ago.



Glen Eyrie Queen of All 96895 is one of the good daughters of Black Pedro that sell in the sale of Aberdeen Angus to be held at Maryville, Mo., on Tuesday, April 16th, by Messrs. W. W. Andrews and J. B. Robinson & Co., of Maryville, Mo. See advertisement on page 52.

THE SLEEP OF SEEDS.

There have recently been gathered some interesting data with respect to the latent life of seeds and their ability to withstand very low temperatures. After recalling instances in which seeds have sprouted after lying apparently dead for hundreds of years—in one case fifteen hundred years—one investigator gives the results of experiments on subjecting seeds to a freezing cold.

Oats, corn, fennel and some flower seeds were exposed during 118 days to a temperature of forty degrees Fahrenheit below zero. Afterward, when placed in suitable surroundings, nearly all of the fennel, oats and corn seeds and many of the others germinated. It is concluded that the protoplasm, or the principle of life, in a resting seed is in a state of inaction not comparable to that of a smoldering fire, but rather like that of a chemical mixture which is capable of forming a combination whenever the required conditions of temperature and illumination are present.—Harper's Weekly.

THE WARFARE AGAINST RATS.

To the Editor of The Homestead:

Since the curse was laid upon the serpent in the Garden of Eden, there seems to be no animal under so universal a ban as the rat. Mention has already been made in these columns of an international society for the extermination of this unpopular rodent. The president, Sir James Crichton-Browne, is actively engaged in a crusade against this universal enemy. The rat has been justly characterized as "a menace to civilization." It has been found guilty of disseminating disease and of impoverishing society. Sir James has been at considerable pains to gather figures for each country relative to its ravages. Every rat in this country, according to his figures, costs the nation two cents a day for its keep. In England a rat costs from half a cent to five cents a day to the person upon whose property it preys. The Indian rat consumes three cents

daily, on an average, and this in a country subject to frightful famines. If we add to the cost of feeding the rat the expense of stamping out the plagues and diseases spread by this pest, the average specimen in civilized nations cannot cost less than from seven to ten cents per day. These figures may not be new to all our readers, but they should be recapitulated until all thoughtful, reading people may be so familiarized with them that they will be stirred to take an active part in this campaign.

With the increase of electric transportation comes a new mischief wrought by this pest. A large item

make a successful fight within their individual surroundings, but more are still submitting to a cut in their profits that means too much for economic prosperity. Every successful fighter in this warfare should let the means that have proved effective in his particular case be known, for the benefit of the many not so fortunate.

Coast cities have been aroused by the peril of the terrible bubonic plague, which is spread by rats more than by any other agency. San Francisco, March 31, 1909, had a notable celebration and banquet in honor of the man who may perhaps be called the most successful "rat chaser" in the world. Dr. Rupert Blue is the federal surgeon who directed the anti-plague sanitation campaign in San Francisco. On that memorable occasion announcement was made to the world that the City of the Golden Gate had cleaned up her rat retreats and fought away all danger of the plague. With the celebration the Citizens Health Committee, organized in 1908, ceased to exist. It was estimated that two million rats were killed during the sanitary war.

In submitting its report to the mayor or the committee said:

The people of San Francisco have the satisfaction of knowing that they protected not merely their city, but the country at large. Had anti-plague measures failed here the spread of the disease would have been extremely difficult to control. Therefore, the cities and states of the Union should, and we believe do, join with us in gratification at the happy outcome.

Mayor Taylor responded in these ringing words:

We must continue this rat fight. We must starve them out and build them out. It is the only way to get rid of them. We should amend our charter so that we can provide for a permanent sanitation fund just as we now provide for a permanent park fund. We must also keep our streets clean. That will help us to get rid of the rodent.

At the banquet itself was symbolized the grim fight of 1908. Ice cream was served in the shape of a mouse trap, with the head of a rat poked out at the bottom. The punch tinkled in tiny garbage cans. Toward the close of the evening Dr. Blue uttered a note of warning, which should be heeded by the nation:

It behooves all seaport cities to look well to their sanitary defenses, for there is where the disease enters.

It seems as though the warfare against this common enemy of health and prosperity were assuming gratifying proportions. With oneness of purpose, and oneness of effort, the victory should not be a doubtful one. Dr. Blue might well have added to his message that a complete victory in the seaport cities is not possible with-

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out the fight being carried to a finish in the vast interior stretches of our land. The words of Holy Writ—"For none of us liveth unto himself, and none of us dieth unto himself"—are well exemplified in all these great national movements for defense against a common enemy.

Subscriber.

HER WEIGHT IN MILK IN 12 DAYS.

Missouri Chief Josephine, the state's record dairy cow, owned by the College of Agriculture of the University of Missouri, is now producing fifty-five quarts of milk a day says the college paper. At this rate she is expected soon to make the world's record for milk production.

Josephine is seven years old, and began giving milk as a two-year old. She at once attracted attention and from that time to the present she has held the state record for giving the greatest quantity of milk. She has been shown in three states, winning prizes in each, and her photograph has appeared in more than forty agricultural papers, widely distributed over the United States.

Josephine is a pure-bred Holstein. Her ancestors, save her sire, which has won twenty-five prizes at state fairs, have never commanded any special attention. She has won first place in milk production through sheer individuality. As a typical dairy cow she is almost perfect. Perhaps no other cow in Missouri has such a great capacity for food and water, the chief essentials of a good dairy cow. Her average consumption of water is 275 pounds a day, though she is only of medium size, weighing 1,250 pounds.

Josephine gives on an average 104 pounds of milk daily, enough to supply more than 100 persons for one meal. Then, too, three and a half to four pounds of butter are made each day from her milk, so that she gives enough milk and butter fat to supply more than 100 persons with butter and milk for one meal. Every twelve days Josephine produces her own weight in milk, making her total milk production, at the present rate 38,320 pounds a year. This milk would supply forty persons the year round with milk and butter.

If Josephine produced only 2,500 pounds of milk a year, there would be in this quantity 750 pounds of proteid, 830 pounds of fat, 1,275 pounds of sugar and 175 pounds of ash. In a 1,250-pound fat steer analysis shows that there is 175 pounds of proteid, 333 pounds of fat, 43 pounds of ash. This shows that in a year Josephine would produce as much proteid as is contained in the carcasses of five 1,250-pound steers, more fat than two such carcasses contain, more ash than three such carcasses contain, and in addition to this she produces 1,275 pounds of sugar.

FINEST WHEAT AN ACCIDENT.

For Canada, the chief source of No. 1 hard wheat is the famous "Red Fife," introduced as long ago as 1842 by a Scotchman, David Fife, then living in "Canada West," now Ontario. The Canadian Agriculturist of 1861 gives this account of its origin: A Glasgow friend sent Mr. Fife, early one spring, a quantity of wheat that he had got from a cargo straight from Dantzic. Mr. Fife sowed it in the spring, but it proved to be a winter wheat that should have been kept till autumn to be put in. None of it ripened save three ears, sprung, apparently, from a single plant—a plant that was to prove a veritable Jack's bean stalk in its growth for Canada.

Mr. Fife wanted a wheat for spring sowing, and saved the seed from his three precocious ears, planting it the following spring. He sowed it too late and in a shady place—so this fairy tale of wheat growing tells us—yet at the harvest it stood free from rust when all the wheat in the neighborhood had rusted. Mr. Fife carefully preserved the seed again, and from it sprang the wheat that will perpetuate his name forever in Canada. The searchlight of modern criticism has recently been turned on this charming story. A few years ago the cerealist of the Central Farm discovered that one of his imported wheats from Galacia (three hundred

miles from Dantzic) was completely identical with Red Fife. Canada's greatest wheat came to her as a chance grain or so in the wrong bundle!

CARE OF THE INCUBATOR.

To the Editor of The Homestead:

"How old is this boy?" inquired the family physician, pausing in the business of issuing medicine to a quartette of youngsters who were struggling with the "grip," to inquire into the personality of his patients. Then resuming his task he continued: "We, of course, need the elements of medicine, but we may study book lore to the end of the chapter and it avails nothing unless we know our people and act accordingly."

Thus it is in caring for our incubators. We must, of course, follow instructions, but without intelligent observation as to environment we will probably come to grief. That any machine is capable of running itself, or worse yet, can be trusted to the care of a ten-year-old child, is an exploded theory. I do not mean that it requires any special mechanical ingenuity, because if it did I would be doomed to use setting biddies all my life for I think the mechanical bump on my cranium is wholly missing.

It is more difficult to keep an even temperature the first week or ten days of incubation, the tendency being to run too low. After the germs begin to develop, the temperature is more easily regulated, due to the animal heat, while the tendency is to run too high.

Many books of instruction advise testing the eggs on the fifth day. This may be all right for the professional, but the amateur will do well to wait until the tenth day. At this time we test out all the clear eggs, mark those that we are reasonably sure are fertile with an "F," and the doubtful ones with a "D." Several days before the hatch is due we make a final test and discard all eggs not well developed. A little experience will soon determine this matter. A strongly fertilized egg just prior to hatching leaves no cause for uncertainty.

We prefer to run at 100 to 102 degrees the first week. At the end of a week or ten days we find it preferable to keep the temperature right up to the notch, a degree higher rather than lower, and so continue until the last puff ball has emerged from the shell. If at any time the heat should run too high don't lose your head and condemn the eggs to the eternal "bow-bows." At the later stages of development a strong germ will stand a lot of hard knocks. If the temperature has not been above the danger line too long they will probably come out all right with proper treatment. Remove the tray from the machine, turn the eggs and leave outside until they are thoroughly cooled down. Eggs should be aired daily from the time they reach normal temperature until just prior to pipping. The germ needs fresh air and the alternate warming and cooling tends to make the shell brittle and helps the chick to escape. No one can tell another just how long to leave the eggs out of the machine, so much depends on circumstances, though generally speaking, if the temperature in the room is not below 60 degrees I would let the eggs air at least fifteen minutes, and later half an hour. The tendency is to give too little, rather than too much air.

Some machines have turning trays to which I am supremely indifferent. When the tray is removed to cool the eggs I lift a few from the tray to give room, and then with the palm of my hand, roll the eggs over and over, round and about, changing those in the center to the corners, and rolling from the outside inwardly. It is hardly in reason that the temperature will register the same in each part of the machine; anyway it is just as well not to expect perfection, and act accordingly. Do you suppose the eggs under old Biddy would register the same if she didn't persist in moving them about? Most assuredly not; and it is instinctive with her to do the right thing and so she rolls and moves her eggs about, not once, but many times during the day. I have no particular

liking for setting hens, but still it is a fact that the best we can do is to imitate those things which she does instinctively. Minnie G. Stearns.

DESTROYING MITES.

To the Editor of The Homestead:

As the season is approaching when so many are troubled with mites in their chicken houses, I might suggest a simple way to keep them out. First, you will usually find them during the day on the under side of the roosts, so it will be necessary to fix the roosts so you can get at that side. I have mine hung on hinges so I can raise the whole roost up and thus have free access to the lower side.

Now almost every town has acetylene gas machines that use carbide, which is made from coke and lime. After it goes through the machine it very much resembles whitewash and can be applied in the same way. The users of these gas machines will be glad to give you this whitewash if you haul it away.

Early in the spring I give the houses a good whitewashing with this carbide, especially under the roosts and in all crevices, and throw it around on the floor (and by the way, it is a splendid disinfectant). I have found that about two applications as above will rid the house of mites. Last spring I only gave my houses one application and there was not a mite in any of them all season.

I have some cement floors and board floors and it works equally as well on either. I am not certain but what common whitewash would answer the purpose if used oftener, but I do know that this carbide will keep them out if used as stated. It seems that they cannot exist where it is.

This is a simple remedy and worth your while to try, as we all know hens cannot do well when pestered with mites. W. W. Baskerville.

Farmers who have been used to borrowing wire stretchers from Columbia, Missouri, hardware dealers can no longer do so. This was decided at a meeting of the hardware merchants there recently. The dealers say that the farmers borrow the instruments and then do not return them. "The average farmer," said a dealer, "will buy \$5 worth of wire and then get a \$4 wire stretcher, which he never returns."

A Tahlequah, Oklahoma, man prescribes one and one-half ounce of pulverized alecampane root boiled in sweet milk as a specific for hydrophobia. The mixture should have the consistency of thin mush and all of it should be taken at one time. Robert Wodall, of Metory, Okla., gave this remedy to three of his four dogs that had been bitten by a rabid dog. The three dogs recovered, while the fourth died.

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And the wild ricestalks are tall,
The "call of the wild" enraptures the ear
As we hear the wild ducks call.

And the honk of the goose and the sand-hill crane
To the hunter's ear is sweet,
As the old hunting suit and the game bag again
Come out of their winter retreat.

Then ho! for a tramp through marsh and fen!
Who cares for the wet or the cold?
As we gather them in for the feast again,
Where the joys of the chase are re-told.

Yes, there's joy in the sound of the wild ducks' cry,
As we lie in the reeds and the damps,
Or skulk to the lair where the decoys lie;
Who cares for the chills or the cramps?

The "Indian" is breathed in the soft spring dawn,
As again we "hit the trail,"
And, oh! how we sleep when the "tramp" is done
And dreams of the chase prevail.

Some of the candidates for office take pleasure in notifying the voters that they prefer to hold the votes of the sons-of-guns rather than those of the ministers, as there are so many more of them.

What is so rare as a day in March, some one asks? A day in April will "outrear" it two to one when the wind gets in the northwest and it begins to spit snow with needles in it.

Don't kick because the minister's sermons are too long. If you knew more, it would not take him so long to tell you about it.

Whatever a man soweth that should be well harrowed in before the birds get the seed. This is especially true of wild oats.

A road paved only with good intentions cannot stand the waters of adversity, but turns into a slough of despondency. Turning mud up into a turnpike only gives it a chance to get slippery on the other side.

You can't cure a mudhole by putting more mud in it. Throw the mud out each side and then you will have two roads and a canal between them, now drain the canal and still you will have two roads. If you had done this in the first place you wouldn't have had the mudhole.

When earth and water won't make mud the earth is good for nothing. I wouldn't give ten cents per acre for land that won't make first-class mud when mixed with water. The best way to make good roads is to put the water in one place and the dirt in another and let the people who use the roads mix it to suit themselves.

Change the Sex.

The figure of justice—a blindfolded lady holding the scales in her hand, is too often emblematical of the fact that justice is blind and out of balance. Justice would be better represented by a big two-fisted man armed with a nick handle or a water elm club and an elephant holding a string of hoboos by the ringlets of their hair with his trunk, while justice played a solo on them with the club.

Justice is one of the four cardinal virtues, but is too often mistaken and is handled altogether too judiciously by those who assume to administer it at times.

Justice is bound down by the conventionalities of female attire. It should wear a pair of overalls and a jumper so it could expand and kick up its heels in the ambient air in joyous abandon and glee. Instead of being blindfolded, justice should wear green goggles to guard against the too vivid rays of the meridian sun, and have spikes in its boots so it would not slip up too often on the banana peeling of leniency.

Justice should be tempered with mercy and mixed with pity, but should ever be ready to swing its club in the interests of common sense and the public welfare. Justice means the exact balance between right and wrong, with the club left free to swing. Justice is too often defeated by snobbery and sobbery. The female sniveler who carries flowers to the beast behind the bars whose only chance to save a many-times forfeited life is to defeat justice is herself a foe to justice and should be taken by the ringlets of her hair by the elephant and fanned with the club.

The club is an antidote to sentimentality and a deterrent to snobbery. The whipping post has been abandoned, but it has some excellent features and excellent effects. It was used too much and for too many minor offenses, and thus became unpopular, but as a preventive to twentieth century posy distribution to jailbirds, for wife beating, husband deserting, home desecrating and family neglecting, nothing else will duplicate it for efficiency.

Justice clothed as above and seated on a whipping post would come closer to representing itself than under the guise of the woman wearing the hoodwink and carrying the scales. Progress failed to progress when the whipping post was abandoned.

The hen-hussies, snivelers, whimperers, and sobbers pouring out their petitions and resolutions to our courts of law, and public officials in the wind interest of mawkish sentimentality and misguided judgment are nauseous and ill-timed, and if there was ever a time when the right to petition should be abridged or denied that is the time. Justice is supposed to always be in readiness to work for the benefit of all mankind, but is not overworked at the present day in bringing criminals to their rightful reward. Perhaps that is man's natural gallantry towards the female; so put the jumper, the overalls and the spiked shoes on justice and change the sex, then let justice be as gentle as a cooing dove when "he" may and use both fists and the spiked shoes when "he" should.

Justice should not be a mollicoddle.

Should alien hens come into your garden and begin to excavate it into mounds and pits, get a shingle and split it into two pieces an inch wide and bore a hole through the end of each. Tie these just above the knuckle of each leg (the hen's leg), leaving the bottom of the shingle about two inches lower than the hen's foot. She will lift her foot to scratch, the end of the shingle will, if hanging perpendicularly, strike the ground and shove her foot ahead; then she will raise the other foot to scratch and the stick will also shove that foot ahead; and in this way she will walk herself out of the garden, when her real intention all the time is to remain and scratch. (Patent applied for.)

In the spring of 1909 seventeen American robin redbreasts, male and female, after being confined for a time in a large aviary near Guildford, in Surrey, England, were set at liberty. They built nests in the surrounding trees and in a short time there were some thirty young robins added to the colony. Efforts are to be made to retain them in the neighborhood during the winter, and it is hoped that thus the American redbreast may become a permanent addition to the bird population of England.

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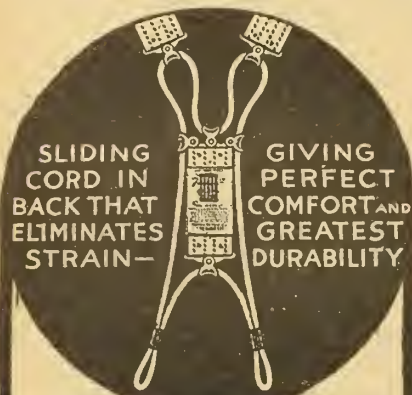
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WITH THE EDITOR.

The rules for serving a formal dinner
apply with difference of minor
detail to luncheon and high tea, hence
in responding to the request for hints
on dinner-party service we may ex-
pect to meet the needs of the much
larger number who entertain with less
ceremonious functions.

I have been asked to state wherein
the difference lies between a luncheon
and a dinner. The difference where
the dinner is confined to four courses
is very slight. It used to be that soup
was not served at luncheon, its place
being taken by a fruit salad, but lat-
terly light soups and consommés are
served at luncheon after the fruit ap-
petizer or oyster cocktail.

We will suppose that the hostess in
the home where the dinner we are to
serve has a maid, employs one for
the occasion, or has a relative who
will assist her on the occasion. We
shall also suppose that she has a fine
tablecloth and napkins, a fair supply
of table silver, china and glass, and
common sense enough to realize that
a four-course dinner is enough for any-
one. The menu for this dinner will
depend upon the season of the year,
but in a general way its features will
be, first, soup or a sherbet (the latter
in summer); second, meat or fowl
with two vegetables; third, salad with
crackers; fourth, dessert—pudding,
pie, etc., or cheese and black coffee.
Where it is desired to be very correct,
the coffee, very strong and without
cream, is served last in tiny cups, but
so few Americans really relish it that
way that it is safer for the hostess
to serve it when and as she thinks
her guests will enjoy it.

In preparing the table the linen
cloth should always be laid over an
under tablecloth known as a silence
cloth, which can be made from an
old counterpane if one does not wish
to buy the regulation pad. It is no
longer considered good form to deck
the table with doilies, though a few
choice pieces set under the dishes
holding the relishes are in good taste
and a centerpiece under the vase or
jardiniere adds to the beauty of the
table.

At a formal dinner nothing is placed
on the table before the guests are
seated except the table silver, water
glasses, napkins, salt and pepper cas-
tors—one of each for every two
guests—and two or three dishes con-
taining relishes, such as pickles,
olives, salted almonds or a mold of
jelly. Bread, in thick slices cut in
halves or quarters, is usually laid on
the napkin, or its place taken by a
roll similarly placed. If additional
bread is required it is brought in by
the waiter. Butter does not appear
at a formal dinner, but as in the case
of coffee it is better to suit the pleas-
ure of the guests who in their daily
life are accustomed to butter at din-
ner, in which case it may be served
on tiny dishes which come for that
purpose, or tiny bread and butter
plates may be used. The trouble with
giving directions for a dinner party is
that customs which prevail in the set
of the 400 are not always suitable for
adoption by people who, though they
have refined tastes, must live simply
and should not entertain so elabo-
rately that entertaining becomes a
burden and hospitality dies a linger-
ing death.

The cloth laid, the first step is to
arrange centerpiece and flowers—
there should always be a bit of color
or greenery if at all possible. Then
the table silver should be placed, the
knife and spoons to the right of the
plate, the forks to the left. The nap-
kin should lie between the two when
this arrangement is followed and the
spoons lie outside the knife. The soup
spoon being the first to be used should
be on the outside. The preferable
plan is for husband and wife to sit at
the head and the foot of the table. If
there be guests of honor they sit at

the right of the host or hostess, a
man to the right of the hostess, a wo-
man to the right of the host. The
remaining guests seat themselves as
directed or find their places by cards
lying on the napkins, except at very
formal affairs where the gentlemen
are given cards naming the lady they
are to take in to dinner.

Soup may be served at the table—
it usually is if the hostess own a
handsome tureen and soup ladle—or
brought in and set in place immedi-
ately after the guests are seated. To ac-
company it the maid will serve tiny
croutons or soup biscuits, passing the
bowl containing them to each guest—
from the left, so that the guest may
help himself with the right hand.

The soup plates being removed—
from the right side of each guest—
the waiter brings in the roast or fowl
and lays it before the carver, before
whom she places the plates. As he
serves a portion she takes the plate
—on a small waiter—and serves a
guest, proceeding in this way until
all are served. She then passes the
vegetables, which are then placed on
the sideboard, and as each guest is
served he or she begins to eat. A less
formal and much more enjoyable plan
is for a member of the family to sit
next the carver and have the vege-
tables placed there. Then as a por-
tion is carved the vegetables are
placed with it and the plate taken by
the maid—or if, as in many nice
houses, the maid is used only to take
in and take out the dishes for each
course the guests serve each other.

After the meat course comes the
salad, served individually from the
kitchen or at the table by the host-
ess as may be desired. While the
maid is bringing in the salad, olives,
almonds, etc., are passed. After the
salad is eaten and the plates taken
away everything but the flowers, un-
less there are bonbons, is removed
from the table and the crumbs re-
moved with brush, napkin, or crumb
knife. Between times the maid will
have refilled the water glasses. She
should fill them once more after plac-
ing the dessert, at which time she
disappears unless the coffee is to come
last.

In chatting about dinner service I
have followed usage in nice houses,
not directions from books of etiquette,
which are generally altogether too
elaborate for the average hostess to
follow without risk of nervous pros-
tration. One of the sins of the Amer-
ican woman is trying to ape the man-
ners and customs of those in a dif-
ferent walk of life. I shall not soon
forget a visit once paid in the home of
a woman ambitious to do the correct
thing who had lacked early advan-
tages. The maid in the house was an
absolute slave, and being unaccus-
tomed to the formal service required
because of visitors was so slow and
so awkward the meals were anything
but agreeable.

The successful hostess is she who
makes her guests happy, not she who
impresses them with the fact that she
"knows what's what." Let us give
ourselves to our guests, serve them
with well-cooked food in moderate
quantity, serve it as nicely as our cir-
cumstances permit, and flavor it with
kindliness and geniality. If we do this
our dinners will be voted a success
though we omit caviare and do not
use finger bowls.

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY.

If I knew you and you knew me;
If both of us could clearly see,
And with an inner sight divine,
The meaning of your heart and mine,
I'm sure that we would differ less
And clasp our hands in friendliness;
Our thoughts would pleasantly agree
If I knew you and you knew me.
—Nixon Waterman.

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the world, has been the slowest to make any advance in the world. The good mother, the wise mother, the mother who considers her work as a life occupation, and understands its responsibilities, and rejoices in her privilege to direct an immortal being physically, mentally and spiritually in right paths, from infancy to maturity—such a mother is a rare being in the world.

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TO MY MOTHER.

Gazing across the fading years
So strangely marked with smiles and tears,
I see a never-changing face,
Hallowed by love and sweetest grace.
Those softened lines and whitening hair,
A face half-sad and yet so fair.
It speaks to me of other days,
Of other times and other ways;
And always there's a tender prayer—
A sweet appeal imprinted there.
Ah! who would dare resist its charm,
Or by a wayward impulse harm,
When bravely still her smile is given
From eyes whose depth reach back to heaven.

Oh! mother, could we only be
Just children yet around your knee—
Could we but feel your presence near
And hear your voice so full of cheer,
Our every act would fill with praise
Could we but have those other days!

—Lizzie McLain.

HOUSEKEEPING WRINKLES.

When frying the stove is often splashed all over with grease. To prevent this, sprinkle a little salt in the frying pan before putting in the fat.

Cooking with curry powder makes a delicious change in the preparation of meats, rice, eggs and fish. Curry powder is an invention of the Anglo-Indian and most housewives know little about it.

Place all cakes to cool on a wire sieve and never put them away in tins till perfectly cold.

One-half hour before mealtime take macaroni or rice, in fact, any cereals, cook for five minutes, then cover tightly and set in hot water. It will be thoroughly cooked, lighter and nicer than any other way.

Disagreeable odors of cooking "greens" or any vegetables can always be avoided by placing a bag containing a lump of bread the size of a hen's egg in the saucepan with the boiling vegetables. This serves to absorb the gases, which otherwise escape and permeate the entire house. A few pieces of charcoal in the cooking pot serve the same purpose.

Buttermilk Cottage Cheese.—I doubt if any housewife knows that the delicious schmier kase, or cottage cheese, can be made from buttermilk as well as plain sour milk. Many farm households have denied the cheese because they use cream separators and accumulate no sour milk. Put the buttermilk in a jar on the back part of the stove, where it will heat slowly; it requires a little more heating to curd than does other milk. When it has entirely separated, pour off the whey and turn the curd into a cheese-cloth sack to drip, letting it stand from eight to ten hours. When it is dry, stir a small amount of salt into the curd and mix with sweet cream or rich milk.—Woman's Home Companion.

AMONG OURSELVES.

It was my intention that the letters for "Undecided" already presented should close the discussion. The reason for this was that the other letters on hand provided nothing new and I had thought it unlikely that other letters would be received. The event proves that I was mistaken, and one of the more recent letters is so entirely different from anything we have had that it is herewith presented:

"Among Ourselves," in the issue of February 24th, we became acquainted with "Undecided," who at twenty-six is in love with a man of forty-five, who also is in love with her. But the mother of the young woman "kicks." What shall she do? Well, at twenty-six, the young woman being the interested one, ought to know about as well as the mother what she had best do, and to one up a tree it looks as if she had rather become Mrs. Forty-five than to pass him by and take her chances later. Now, if a mere man who has been in the hopper and gone through with the grist would be considered a suitable adviser, I would say she might go farther and fare worse, and I should never spoil a good-and-ready made-up mind on matters matrimonial for mother, or anyone else, not at twenty-six years of age. At the age of forty-six I married a young woman of just the age of "Undecided" (twenty-six), and our life for nine years was a perfect love dream, at which time the valley and the shadow intervened, leaving only a memory of the last touch of a vanished hand. That was seventeen years ago, but I will pass that by without considering it a factor worthy of consideration in the case of "Undecided," and give the results of my observations as a rolling stone, pretty much all over the United States. When a young couple of the same age, or about the same age, say twenty-one to twenty-six, are united in marriage, the casual, careless look-on-ones, "What an ideal marriage,

a love match pure and simple," and so it usually is for a while. But ten, twelve or fifteen years later how do we find it? At fifteen years later we find a man thirty-six to forty-one, better looking than before, full of vim and snap, strong and vigorous and fully as attractive from a feminine point of view as fifteen years before. But the women, great gods and little fishes! We need an introduction to properly place her in our memory. Time, household cares, worry and motherhood have wrought havoc with the blooming bride of fifteen years ago, and loss of form and "crows' feet" place her unmistakably in the unattractive class and, the pity of it, she can't help it, for she has in her multitudinous duties neither time, strength nor inclination to make herself attractive. And oftentimes she couldn't if she would, for by nature woman fades quicker than man and she isn't to blame. God hath made her so and her struggle to provide a good home for her children and furnish it properly have hurried her along the road to the grave, on which the insane asylum and the divorce court are half-way houses. She hasn't a minute to spare during the day to primp and prim, and at night, while the lord and master can sleep the sleep of the just and made perfect, and possibly snoring sufficiently to cause the dead to sit up and take notice, she—she is caring for a cross or sick child, or, what is worse, too tired or worn out to sleep even if the children are all right. But the foregoing picture is not yet complete—not yet true to life. Quite the usual thing as the wife fades, the husband begins to cast longing eyes towards every well-groomed woman that crosses his path. He's built that way, and if he doesn't show it he's "putting on." But he can't deceive his wife, especially if he incidentally remarks, "I wonder why your clothes never fit like those of Mrs. Hold Her Head High?" (Gall, wormwood and dead sea apples.) Does a woman snap and snarl, or weep and wail after this experience? Who can wonder? Echo answers, "Who." "Undecided" can rest assured, if "Forty-five" has no bad habits at present, that men of that age hardly ever assume them later, and if he already has a well-furnished home (as he should have at that age) she will not need to grow prematurely old in helping get such a one. Hence she will have more time to devote to making herself attractive. I use the word advisedly, for it covers the whole sum and substance of the desirability, to the average man, of one woman over another. With her attractiveness retained she insures the continuous esteem, regard and love of Mr. "Forty-five." What more can she want or desire? Nothing! Though there is a possible aftermath later on, of a blooming young widow with a long, keen scythe hung on a snath with two sets of nibs, mowing a wide swath through the masculine world.

"Ranchman" speaks plainly, but sometimes plain speech is advisable. Women do not like to be told in so many words that man is a polygamous creature; that husbands are apt to cast inconstant eyes on other women when their lawful wives become faded or fretful, but if these things are so—and the history of everyday life corroborates what "Ranchman" says—why, it is better to face the facts. If they are accepted and faced it introduces a new element in the problem of the woman marrying a man years older, or years younger, than herself. However, in leaving this letter with the circle I should like to suggest that the aftermath of the "bloom-ing young widow" is very likely to be shadowed somewhat by impedimenta in the shape of a young family.

Replies to several other questions will now occupy our attention. "Tommy D." has a word for Rose:

Trials and tribulations of "Rose" have caused a discussion between myself and Peggy D., I, of course, taking the part of this unfortunate woman. To start she says, "Don't let your husband think you have no will or brains." Of course not! Always remind him of these facts when he is in hearing distance. Then again she says, "He never said he loved me in his whole life." The most unique case I ever heard of! Can't some of us cast a ray of sunshine into this loveless home? I am sure this man can love and love his own wife. Just try some other plan and pardon the suggestions, as I am your friend; just start gradually and don't say anything about your independence, will power and brains. When he comes in tired, kiss him, speak a kind word to him. Don't speak unkindly to him of his father, as this may hurt his feelings and cause him to feel bitter toward you.

Rose will wonder how she is to meet her husband with a kiss when things are as they are between them? Perhaps "Tommy D." will come again and outline the process by which the chasm between a husband and wife who have become estranged shall be crossed. Shall she kiss him as she would coax a horse she wished to catch? Shall she pave the way for this unusual exhibition of affection or shall she spring it upon her unsuspecting mate? These questions may sound frivolous, but they are not so intend-

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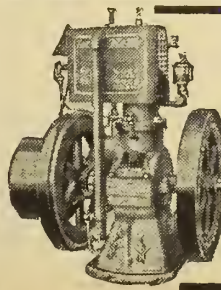
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ed. And they are propounded to the whole circle.

"A Mother of Six" comes with advice regarding children who roam and in so doing impose upon the mothers of their playmates:

In reply to Mrs. Lulu Illinois: Most everyone in the world is looking for some good or great work to do that it may be better for their having lived in it. What is nobler than influencing the lives of children? The mother of those little ones is not what she should be to them or she would not allow them to run around, not knowing where, or of whom they were learning things that will be for good or evil during their whole lives. Do not, by word or action, wound the feeling of their little hearts, for it seems that they instinctively turn to you for the protection and sympathy that is denied them by their mother's indifference. I was deprived of a mother's love and care when less than eight years of age, and I have not yet forgotten the search I had for what money could not buy and hired help failed to give—a satisfactory home. Don't fail to read the article "With the Editor" in the issue of February 24th.

What a difference it makes in our ideas and opinions when we've "been there." Pardon the slang, but the phrase exactly conveys my meaning. If the "Mother of Six" had not hungered for mothering when she was a child her views on this question would have been very different.

An "Illinois Bachelor" has a word regarding cards and liquor which are different from those usually advanced in this circle:

I have been a silent reader of "Among Ourselves" a long time. I have read Edna Pound in regard to M. L. H. and I will say I agree with her. I have seen some Christians away from home slip in the back door of saloons, play cards, swear and bet on ball games. I don't believe a Christian of that kind is as good as one who does not belong to the church. M. L. H. perhaps knows how to take her young man better than any of us. I don't believe it hurts anyone to play a social game of cards for pastime or take a drink, but govern yourself in all things. Some say they can't, but they can if they will. Many young men I know of who drank before marriage never go in a saloon now, and many who never drank before marriage drink after. Marriage is a lottery.

The average marriage often turns out a lottery, but it should not be so. The trouble is that we do not apply common sense in making this most important contract. If a man drinks before marriage the chances are in favor of his continuing to do so. Vice versa, if a man does not drink before marriage the chances are in favor of his continuing to abstain. It may be added that a man who calling himself a Christian drinks or gambles in secret lays himself open to suspicion, and should he be called a hypocrite; he is without defense.

"Mrs. N. M." is interested in what

a "Minister's Wife" had to say about "shut-ins" in a recent meeting:

I have been reading our sisters' letters for a good many years, but never thought I could write a word for the paper till I read our dear sister's letter, a minister's wife's thoughts for the shut-ins. It touched me deeply and she never will know how much cheer those sweet words brought to many a lonely heart. We should all carry a few rays of sunshine and cheer to the sick, and when we are with them be very careful what we say and how we say it, and after we have left let us all speak a good word for them, in place of some light remarks. It is just as easy to say we are sorry they are sick and hope they will soon be better, and if they should get to hear it, it will do them a world of good. I should like to hear from some more of our sisters on this subject, the shut-ins.

"Oh! the good we all may do. While the days are going by."

In a circle of this size there are, I fear, many "shut-ins." It might be helpful to us and good for them if some of these invalids would say a word. We shall greet them with all kindness.

A young woman, ambitious for the best things, but with the desire of youth for pleasure, comes for help in a quandary in which she finds herself:

May I ask you for a little advice? I, with my parents, live on a farm. There are quite a few young people in this community, but, I am sorry to say, they are not the kind my parents, or I either, wish to be my friends. About a year ago I joined the church and have since tried to live a Christian life. I know my mistakes have been many, but I feel that my life has been fuller than ever before. The young people have gatherings, parties, dances, etc. Of course, I would not go to the dances, but do you think I should shun them (the young people) altogether? My parents go out very little and, as I am not allowed any young gentleman friends, I am doomed to stay at home. I like fun and lots of it, and I do like friends, both girls and boys. But what am I to do—stay at home, do without any pleasures that other girls of my age are enjoying just because the young people in our neighborhood do not come up to the standard of morality that they should? I think that if one conducts one's self properly one can go almost anywhere. I am afraid I have not been very clear, but I hope you will understand. I forgot to mention that I am eighteen years old. I anxiously await answers and advice.

In replying to E. E. G.'s query will the friends remember two things? One, that she is eighteen; the other, that they were once young, though they may have put the desires and the memories of youth far in the background of their lives. With these provisos we should be able to have a discussion that will prove helpful to E. E. G., to other young persons and also to parents who have daughters and sons growing up.

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PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

SECOND QUARTER.

Lesson 11—Matt. 9, 35; 10, 15, 40-42.

April 10, 1910.

THE MISSION OF THE TWELVE.

Hebrew folk were Jesus' own. He was ardently and patriotically attached to them. To his pitying eye they were shepherdless sheep, fleeced, not fed by a hireling hierarchy. They were an unrepent harvest in danger of never coming to the garner. When he sat and wept over their impending fate he might have said, "What more could I have done?" The sending of the apostles out seems like the last effort of beneficence in behalf of obduracy. All pains were taken to make their mission a success. They were to keep aloof from Gentiles and Samaritans, and thus avoid arousing the racial prejudice of the Jews. They were to tell persuasively of the imminence of the gracious kingdom, and invite and allure into it. And they were to have supernatural seals to attest the authenticity of their ministry. These were not to be merely curious and inexplicable phenomena, or awe-inspiring judgments. Their several paths were to be paved and illuminated with beneficence. Grievs were to be assuaged, doubts dissolved, burdens lifted, the sick healed, and lepers cleansed. Their power, too, was to trans-

cend the earthly sphere, bringing the departed back to life, and sending demons to their own place. They were to faithfully keep themselves above suspicion of a pecuniary interest in their mission. As they had received without price, they were also to give gratuitously. They were to be thoroughly unsecular in spirit and aim. As the best way to an Eastern heart is through its hospitality, they were to throw themselves upon it. They were not to supply themselves in advance with the resources which would make them independent of those to whom they ministered. They were to take neither cash nor grip nor superfluous clothing. Self-denying simplicity was to be their characteristic. Yet they were no mean-spirited mendicants. Every home that sheltered them should get more than it gave. As the home they occupied might become a citadel of the faith after their departure, they were to take special care in the selection of a stopping place. They were to go where there would be least danger of scandal. They were to find some one, if they could, who was waiting the consolation of Israel. At such a home they were to abide, and not fritter away

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time, strength, and influence in a round of festivity. Standing on the doorstep of the chosen house, they were to utter the conventional blessing, Shalom Iakem! But into this common salutation of polite society a supernatural power was to be breathed. It was from apostolic lips a greeting, and more—a prayer, a blessing. However, the benediction went out arbitrarily and irrespective of the moral disposition of the recipient. If the latter were unworthy, the blessing rebounded to the blessing. If they were obdurately repulsed from any city, they were to perform at the gate, in full sight of the inhabitants, an act, the significance of which could not be mistaken. They were to do what the Jews did themselves when they quitted heathen cities. When they shook off the dust of a Hebrew city, they showed that they esteemed the Jews themselves heathens at heart, and gave warning to the inhabitants, so that they might not plead ignorance of the proximity of the kingdom of God. And now, were the apostles going a-junketing through Galilee, assured of a good time, generous welcome, and lavish fare? Quite the contrary. The words of the master were enough to freeze their hearts with terror. "I send you as sheep in the midst of wolves." They went in the teeth of hardened enmity, derisive rage, hellish cunning. And their outfit, humanly speaking, was no outfit at all. But really just here was their strength. Utterly stripped of human resources, they were driven the more to the arsenal of heaven. In their utter weakness, the Lord's strength was manifest and magnified. Like arrow in target Jesus' injunction must have stuck in the apostle's memory—"Wise as serpents, harmless as doves." As in compounding ingredients which apart may be inefficient or deleterious, combined, the injurious qualities are neutralized and the whole efficacious, so in the combination of the serpent and dove qualities enjoined. The dove alone is silly, the serpent crafty; but "the blend" makes a character

ideally perfect for days of persecution.

The Teacher's Lantern.

When St. Francis of Assisi heard this scripture read, he threw away script, stick, purse, and shoes, and vowed himself to perpetual poverty. Sainthood and beneficent his career! Yet it does not prove the instructions of Jesus to the twelve to be universally and permanently applicable. His case is rather the exception, which proves the contrary. On the whole, impartiality would hardly say that the mendicant has brought large honor to the church. Beggars' lives bring, as a rule, beggars' vices. The directions were temporary and local. They were for the conditions then maintaining. Given the same conditions, the same commands apply again. Another evidence that the instructions were for a limited time is found in the injunction against going "in the way of the Gentiles." If that order had been literally and continuously observed the world would never have been evangelized. The reason for the limitation at the time is obvious. The disciples were as yet unfit for a universal campaign, and by this means the priority of Israel might be recognized. In the current laymen's missionary movement it is as if Jesus were sending out his disciples of today to preach a kingdom at hand. The avowed purpose is to evangelize the world in this generation. There have been women's and students' movements, but this is distinctively a men's movement. A business men's propaganda which will put effete methods on the dump, where they belong, and apply to the whole undertaking the modern spirit, way, and rule. The directions of Jesus to his apostles indicate the general spirit in which the ministry is to be undertaken in our day, and every day. They rule out the ambition for fat livings and lordly personal and domestic outfits. Ostentation in house, equipage, or person in a minister are singularly out of place, and calculated to discount efficiency. On the other hand,

there is no premium on untidiness in dress and brusqueness in manner affected by some.

DRESSMAKING—NO. 71.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

The semi-princess dress is always a graceful one and it will be extensively worn throughout the spring and summer. This one includes exceptionally graceful and becoming lines and is designed for misses and for the small women who find such models especially well suited to their needs. In the illustration it is made from one of the new foulards with a chemisette of all-over lace. But the same model would be charming made from pongee or from any similar silk material, and it makes an admirable design for linen and fabrics of that sort while it would be just as dainty as possible made from batiste, lawn or one of the newer cotton foulards or any pretty inexpensive wash fabric. As it can be made either high at the neck or without the chemisette and with three styles of sleeves, it suits evening, afternoon and morning occasions equally well, difference being found in the material, not in the design. As shown in the small view, it would be charming made from crepe de Chine or from a light-colored silk voile, as shown in the back view it would be charming made from linen or from light-weight serge for immediate wear, while as illustrated it takes an intermediate place.

The dress is made with the panel at the front which extends from skirt to waist portion and with the blouse and the gored skirt that are joined beneath the belt. The skirt is laid in plaits and the closing is made invisibly at the back. The chemisette is separate and attached at the neck edge. Whatever the length of the sleeves, they are cut in one piece each. The three-quarter ones are gathered into cuffs, but the short sleeves are left free at their lower edges and the long sleeves are of the plain fitted sort, but include tucks that relieve them of severity.

The quantity of material required for the medium size (16 years) is 11 yards 24 or 27, 7 1/4 yards 32 or 6 yards 44 inches wide, with 1 1/2 yards of 27

inches wide for banding, 1/2 yard 18 inches wide for the chemisette.

The pattern 6587 is cut in 14, 16 and 18-year sizes and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (1f

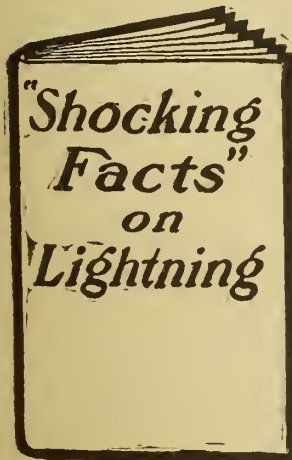


[6587 Semi-Princess Dress for Misses and Small Women, 14, 16 and 18 Years.—With or Without Chemisette, With Three-Quarter, Short or Long Sleeves.]

in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

Lingerie blouses are exceptionally attractive this year and here is one of the best. It can be made from lawn, batiste or other similar materials or

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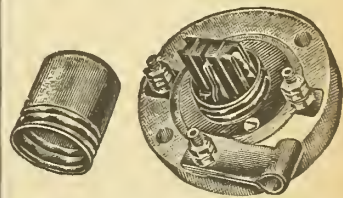
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it can be made from net, crepe de chine or any thin fabric that is adapted to the lingerie style. The shallow, round yoke is pretty and smart, but neither it nor the trimming is necessary, for the blouse can be made without as shown in the small view. The sleeves, too, are susceptible of different treatments and consequently the one model provides several. Linen, lawn with trimming of Spanish linen lace makes the waist illustrated and the sleeves are long and unlined, but a great many women like the puffs supported by foundations and plain linings can be used if preferred. Again, the cuffs can be cut off if three-quarter length is desired, and plain sleeves can be used if a simpler effect is sought.

The waist consists of front and backs, the yoke is separate and applied over it and the trimming is ar-



16585 Tucked Blouse, 34 to 42 Bust.—With or Without Yoke and Trimming, With Long or Three-Quarter, Fancy or Plain Sleeves.]

ranged on indicated lines. When made unlined the portions of the fancy sleeves are joined one to the other, and when lined the puffs are arranged over the lining and the caps are finished free at their lower edges.

The quantity of material required for the medium size is 3½ yards 21 or 24, 2¾ yards 32 or 2 yards 44 inches wide with 4½ yards of wide and 7 yards of narrow binding.

The pattern 6585 is cut in sizes for a 34, 36, 38, 40 and 42-inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

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THE YOUNG FOLKS

Plenty Of Fresh Milk.
I am a little girl, eleven years old. I live on a farm of 160 acres. I am in the seventh grade and have two sisters and two brothers. I like to live on the farm because we always can have good milk and all we want of it. We can have fresh eggs every day and don’t have to buy them. I like to ride horses and make play-houses in the groves and I like to milk cows. I like to play with the little lambs in summer and go sleigh riding in winter. I like to go to school in the country. Our school is three-quarters of a mile from home. In the country we can make pets of chickens and calves and don’t have to wash every day to keep our clothes clean. We have a dog named Dewey and four sheep. There names are Jessie, Esther, Julia and Nancy. We have six horses, and their names are Pete, Daisy and Fanny, Flossie, Maud and Doll. Doll is twenty years old. We milk six cows and I milk two of them.
Ollie Drager.

Likes to Set the Table.
What I like best in the house is to set the table and wipe the dishes. I like to feed the horses and calf the best of outdoor work. The horses’ names are Colonel and Babe. The calf’s name is Snowball. I like the farm because I can have lots of fun. I like to feed the chickens, too. I live close to my school. There are twenty scholars go to my school. My name is Hazel Borden, and my age is eight years. My address is Clarinda, Iowa. We have several chickens on the farm. I have two brothers and one sister. My papa has some cows and several head of horses.
Hazel Borden.

This Boy Likes to Plow.
I am a farmer’s son, fifteen years old, and go to country school. I am in the eighth grade and my teacher’s name is Miss Janda and I like her very well. We have nine months of school. I have four brothers and one sister. Frank is sixteen, James, twelve, Henry, seven, and Libby is four. I live on a farm of 320 acres and eight miles from town. Papa has eleven head of horses and thirty head of cattle. I like to work on the farm. What I like best is harvest time and plowing for wheat. I have for pets a cow and four horses. The nearest town is Geneva, Neb., which has 3,000 inhabitants. It has about eight churches and Sunday-schools.
Anton Rohla.

Likes the Horses Best.
I like to work with horses best on the farm, because I can drive and ride them. I have a pony named Babe. He is a Shetland pony and has a very long mane and tail. I ride him to town, which is seven miles away. Papa has nine horses, and I ride them, too. Another thing I like about farm work is to follow around with papa and do the chores. I go down to the barn and feed the horses and when I feed the pony he will paw and shake his head. When he is in the pasture he will bother the other horses and then they will run after him. Another part of the farm I like is the work with chickens. I feed them every day and like to see them grow and see the old hen scratch for the little ones, and when she calls them I like to see them run to their mother. At night I go around and see if all of them have gone to bed. Sometimes I stop to see the little ones peep out from under the hen’s feathers. Sometimes they will stand on top of the hens.
Marian George.

This Boy Likes Sheep.
I am a boy, twelve years old. I live a mile and a half from town. I like the farm very well. I am in the sixth grade. I go to the town school. We have seventy-five sheep now. We bought 240 two years ago and shipped two car loads and a load of lambs. I like sheep very much. We have two pet lambs, one named Percy and the

other Jack. When they were little we fed them with a bottle and nipple. It was great fun to see them fighting over it. We have two more little lambs. They are a week old now. We are starting to play baseball at school now. I raised twenty-one chickens last year. Most of them were Buff Orpingtons. We raise that kind of chickens and they are fine ones. We run two incubators in the summer. Last summer we raised 350 chickens. We already have some little chickens. It is pretty early for them. Poultry makes lots of money. We have a rat terrier dog. He is white with two brown spots. He is a fine dog and will sit up and jump through a hoop and do lots of tricks. George Giblin.

Chickens for Pets.
My chicken was given me by my aunt. She was hatched on Christmas day and the little boy who owned her was going to move away and could not take her along, so he gave her to my aunt. She did not want to bother with her, so she gave her to me. I took care of her and had her around in the house, but after she got bigger she did not bother in the house. I call her Bessie. I thought I would tame her, and so now when I go and get some corn and sit down in the grove she will come up and jump in my lap and eat corn as fast as I can shell it for her. I would not sell or kill her for anything. My sister always sets her on goose eggs because she was so good and would never

break the eggs. I always let mama have Bessie’s eggs until it comes time to set her and then mama gives me eggs enough to set her. Last year I set her on nine eggs because that was all mama could spare and she hatched every egg and raised the chickens and last fall I got a big price for them. Whenever mama wants to have very good luck with her chickens she sets my hen, for she never breaks any eggs.

I also have three bantams that were given me. We have a little dog that we call Bonnie, and she is a very good dog. My brother always takes her with him when he goes after the cows.

I like to read the other children’s letters very much. Rella A. Corbin.

A Hand-made Quilt.
I like to work in the house as most girls do. I like to cook and sew and I am making a quilt by hand for myself. My mama is sick now and I have to stay out of school to help. I do most of the cooking and help with the washing and ironing. I also do most of the housework because my largest sister Mary and my brother William are away at school. Last summer mama and I hatched about 300 chickens, but when they were growing nicely a tornado came through the country and blew about fifty old hens away that we never found again, and drowned about all of our chickens. Then the skunks got after the rest, and we had a hard time getting rid of the skunks. Then came a very heavy rain which drowned some more and in the end we only raised about two dozen chickens. I also like to take care of house plants, fish and canary birds. I have a room of my own and like to keep it looking nice, and when I have the care of the rest of the house I try to keep it in order, because I do not like to see a dirty house.
Blanche Berkey.

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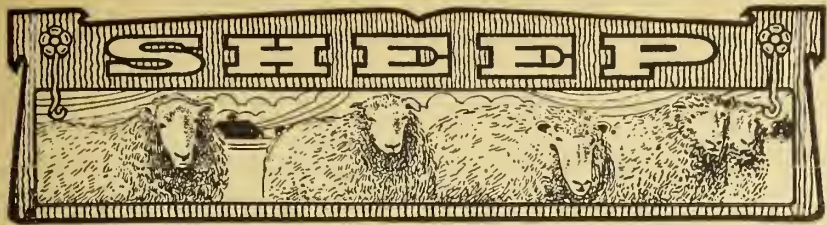
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THE MARTIN COMPANY

SAC CITY, Dept. A, IOWA.



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

A PLACE FOR SHEEP IN THE CORN BELT.

To the Editor of The Homestead:

In looking through recent reports of the numbers of the different kinds of live stock in some of our corn-belt states we were much surprised to find what a small place was held by the sheep. Illinois has one-third as many sheep as cattle and one-fifth as many as hogs. Iowa has one-seventh as many sheep as cattle and one-tenth as many as hogs. Missouri has one-third as many sheep as either cattle or hogs while Kansas has only one-eighteenth as many sheep as cattle and one-tenth as many as hogs.

There is no stock on the farm which can be handled in as inexpensive buildings as can the sheep. All that is necessary is a good roof to keep them dry and sufficient walls to break the winds and storms. Cold never hurts a sheep if the fleece is kept dry. This is not true with hogs and cattle. Hogs will pile up and not do well while cattle will require more feed to keep them up in the best of condition.

The feed bill and labor of feeding is also in favor of the sheep. In ordinary years the breeding ewes need little care from the time the lambs are dropped until the first of January. They have fresh grass through the summer and early fall with more or less rape as a supplement. In the late fall and early winter they get their living wholly from the corn fields. Beginning with the first of January, or a little earlier some winters, we start to give some feed at the yard. If we feed only corn stover or straw for roughage, with no leguminous hays, such as clover or alfalfa, we feed oats. If clover or alfalfa is fed we give corn on the cob. This, however, is fed in small amounts. This winter the snow was so deep that the sheep could not get to the fields at all. Yet with the clover and alfalfa we gave our ewes, which average about 160 pounds in weight, less than one-half pound of corn per head daily. This amount is keeping them up in first-class condition. Very little bedding is required for sheep. Where too much is used there is greater danger of the manure heating and gases be given off which would injure the health of the animal. Can breeding cattle and hogs be carried this length of time with as little feed and labor per 100 pounds of live weight?

There is a short period at lambing time when the ewes require more care than cattle and as much feed. We have to spend several nights with our ewes at this time of the year but always feel well repaid. This is a very short season as compared with the rest of the year. Raising late lambs makes this work much lighter, but we have never had as good results with the late lambs. The time the lambs should be dropped, however, depends upon the equipment one has for raising them, also the time he wishes to place them on the market.

Reviewing our article of December 16, 1909, we find it takes 100 pounds less corn to produce 100 pounds of gain in the suckling lamb as compared to the pig and 200 pounds less as compared to the calf. When the young are weaned the difference is still greater. The cattle require 830 pounds of corn as compared to 398 pounds for hogs and 245 pounds for sheep to produce 100 pounds of gain.

The selling price must also enter into the proposition. In a review of the Chicago markets for the past fifteen years we find the tops for cattle about at a par with the tops for lambs. This does not, however, include the hot-house lamb, for these could not be raised under the conditions outlined earlier in this arti-

cle. Hot-house lambs cannot be profitably raised by the average corn-belt farmer. With lambs making gains on grass with one-fourth to one-third the corn required by the cattle and yet selling at the same level, why is it that more are not raised? Of course, the lambs eat more grass but this is worth only little more than the rental price of the land.

In comparison with hogs we find a difference of nearly \$2 per hundred-weight at the Chicago market in favor of the lambs. We also note that it requires 100 pounds more corn for the hogs than the lambs at an additional cost of about \$1 per hundred-weight gain in live weight. Although hogs are more prolific breeders than sheep yet by careful records, selections, and feeding the ewes may be made to drop on an average one and one-half to one and three-fourths lambs annually. It must also be remembered here that the ewes make a liberal payment toward their keep in the wool clip which should be above nine pounds per head.

With a flock of breeding ewes one should have no trouble. They should be kept dry and free from drafts. The feed and pastures should be kept clean. The breeding stock should be dipped twice annually; some advocate three dippings. The feet should be looked to see that they are not overgrown and during the spring many of the ewes have to be tagged. With such care we have never had any trouble with parasites or foot rot in our flock of breeding ewes.

In starting a flock it is not advisable for the beginner to buy pure-bred stock. It is better to buy good first-class grades and as he gets more used to the stock he may buy pure bred and cull out his poorer grades.

It is always advisable to have all ewes numbered and keep an accurate account of the number of lambs the different ewes drop together with the way they raise them. Another item which could well be entered here is the wool clip. With a spring balance it takes scarcely no time to weigh the wool. Then in the fall one can go to these records and determine the animals to be sold. With this system one should in a few years have a flock which should be a credit to the farm and the country.

Ross M. Sherwood.
De Kalb county, Ill.

NEED OF SALT FOR SHEEP.

To the Editor of The Homestead:

It is a well-known fact that everything that is contained in any animal must come from the food and water consumed; that every minute of any animal's life there is a waste of the substance, and consequently whatever is thus wasted must be supplied in the food. Every secretion and excretion from any animal contains salt, and it has been learned by exact method that a sheep excretes from its body every day one dram of salt.

This is equal to half an ounce every week, or twenty-six ounces in a year. This quantity is one and one-half pounds. I believe I am safe in saying that not three shepherds in ten supply this quantity of salt to their sheep. There is a very small portion of it supplied in the food, but this is insufficient for the needs of the animals.

Many farmers do not realize what would happen if this actual necessity of life (salt) were not supplied. For example, suppose we take a mere thing like a watch, and remove one of the smallest wheels in the machinery of it. The watch would stop and nothing would restore it but the return of the abstracted part.

The same is true with the machinery we call an animal. It wears out every moment by the activity of its

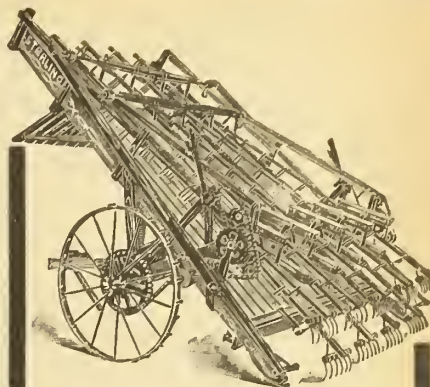
parts, just as any other machine does. And if these worn-out parts are not repaired and made good continually, something goes wrong and the machine goes irregularly for a time and then stops.

A handful of salt is a small matter, but the life of a score or more of sheep may be sacrificed for the want of it any time during the year. The first result of this want is falling off of the appetite, or the appetite becomes perverted and all kinds of rubbish will be sought to supply the want. But in either case the result is the same. The food is not duly digested and the nutriment of it is wasted, and so far as these failures go the animals starve.

The supply of salt is thus one of the most exacting necessities of not only sheep, but other stock as well, and as the domesticated animals are wholly dependent on their owners or keepers for their subsistence, and if this food—which salt really is—is not duly supplied, the animals must, in fact, starve, not only for the want of salt, but through the failure of the digestive organs to perform their functions for the need of it.

Illinois. W. H. Underwood.

Lewis' Single Binder straight 5c—many smokers prefer them to 10c cigars.



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Need of Intensive Farming

EACH year immigration and natural increase add approximately 2,000,000 hungry mouths to be fed, and it calls for an increase of approximately 75,000,000 bushels of food-producing cereal per annum to supply this demand.

In 1898 the total acreage of corn, wheat, oats, barley and rye in the United States was a little less than 152,000,000 acres, the yield 22.5 bushels per acre, the aggregate product 3,412,000,000 bushels, of which there was exported almost 599,000,000 bushels.

In 1908 the acreage had increased to more than 190,000,000 acres; the yield was 22.8 bushels per acre; the aggregate yield 4,339,000,000 bushels; but our exports had fallen to 165,000,000 bushels, a decrease of 72 per cent.

This tremendous falling off in exports of grain and its products suggest the possibility that the grain may have been fed to stock and exported in the shape of beef and pork, but the falling off in the exports of these commodities for the period named is fully as startling as in grain.

I have noted with regret expressions of satisfaction and self-congratulation upon the part of the press over the fact that the aggregate value of farm products has increased from \$4,417,000,000 in 1898 to \$8,760,000,000 in 1909, unmindful of the disturbing fact that this increase in value is the result almost entirely of increased acreage and a startling increase in price per bushel, and not the result of an increased yield per acre.

Ninety years ago the richness and fertility of the soil of New York state and the production of her farms was the wonder and admiration of European travelers. In 1860 this state was among the first of the great agricultural states of the Union. Today the state of Maine, lying farther to the north, with its rocks and its forests, raises more per acre of all the cereals than we do, and her potato crop averages 225 bushels, as against 82 bushels per acre in New York.

I have read with great interest the reports of your president and the heads of the various departments for the years 1908-1909, and note that an appropriation of approximately \$1,000,000 for needed additional buildings and equipments and an increase in the annual appropriation for maintenance of \$50,000 per annum is to be asked at the hands of the state legislature.

The fact that the statement is made that unless enlargements and improvements are provided for "the number of students that can be admitted to this college of agriculture must be immediately limited" suggests the possibility of a doubt about this appropriation being made.

This doubt is emphasized by the earnest appeal with which Director Bailey closes the report of his department. It is worthy of reproduction, and I want it given the widest possible publicity. It is as follows:

"I wish to repeat what I have so many times expressed, that we are beginning a college of agriculture, not completing one. Few persons even yet realize what aids an institution of this kind will contribute to the welfare of the future. I am in position to appreciate this, for the most urgent requests are constantly coming to my desk from all departments in the college for the means to do useful work. These are all unselfish. They are not requests to empower an officer to build up his department, but to enable him to do work for his fellows all over the state. I am powerless to provide that means, and I see the opportunities pass and the men grow old and the work of the people remaining not done. I should have liked the opportunity to have gone directly to the people with a plan complete enough to have appealed to their imagination."

Can it be possible that the legislature of this state will hesitate for one moment about an appropriation of a million dollars for this important object? I will guarantee a return of 100 times this amount each year upon the investment.

If, through the improved methods worked out and introduced by this col-

lege, the production of potatoes alone per acre of the state could have been brought up to that of the state of Maine it would have added \$52,000,000 to the bank account of the farmers of New York state on the crop of 1908.

A simple comparison of the average yield per acre of the principal cereals in this country with those of the older nations is the severest possible criticism of our methods, or our want of method. During the last ten years our farms have produced an average yield of wheat of less than fourteen bushels per acre. England produces more than thirty-two, Germany about twenty-eight, the Netherlands more than thirty-four, and France approximately twenty.

Of oats, the United States produces an average annual yield of 23.7 bushels per acre; England forty-two; Germany, forty-six, and the Netherlands fifty-three bushels.

Potatoes, like wheat, corn and bread, are a food staple of the poor man. Our average yield is eighty-five bushels per acre, while Germany, Belgium and Great Britain produce 250 bushels.

Germany, with an arable area no greater than some of our larger states, produces approximately 2,000,000,000 bushels of potatoes annually, while the aggregate crop of the United States



Rebecca 2d, the Short-horn cow herewith illustrated, is a member of the excellent herd of White Bros., of Centerville, Iowa. As indicated, she is a good cow and right in line with the many others in their large herd. They are offering cattle for sale at all times, as indicated in the advertisement on page 52.

averages barely 275,000,000 bushels per annum; and in the year ended June 30, 1909, we imported 8,400,000 bushels.

For half a century we have justly regarded our country as the granary of the world, and our annual exports of foodstuffs have formed a basis for a large balance of trade in our favor. Our exports of this character show a steady and alarmingly rapid decline. In the past, increase in population, increase in consumption, has been met by multiplied acres. This is no longer possible, or at least only to a limited and constantly diminishing extent. Increased consumption in the future must be provided for, not only by an increase in acres, but by an increase in the yield per acre.—President N. C. Brown, of New York Central Railway.

GROWING A GOOD CORN CROP.

To the Editor of The Homestead:

In order to get a full crop of corn and to have it do its best there are three factors required, each of which is very essential. First, good seed; second, good soil, and third, frequent, but shallow cultivation.

Unless the best of seed is used, a poor stand will be the result. And unless the seed is planted in good soil, an inferior quality of corn will be the result. Frequent, but shallow cultivation is necessary, because by fre-

quent cultivations the corn will reach maturity quicker, and by cultivating shallow, sufficient moisture is provided at all times; this the corn will make a more vigorous growth than if deep cultivation is practiced, which usually leaves the corn on a ridge that sometimes dries out, and the corn roots do not feed as they otherwise would.

Another advantage which is gained by cultivating frequently is that the weeds are kept down which otherwise would rob the soil of much plant food that should be left for the benefit of the corn.

A thorough preparation of the ground is a matter of prime importance, and the crop is half made if the seed bed is put in fine condition before planting. My method is to plow close and to plow somewhat deeper on rich land than on land not so good. I always plow deep enough to thoroughly turn under all weeds, grass, etc. I never burn anything on my corn land that can be plowed under without any trouble, as such refuse will decay and help in keeping up the fertility of the soil. I usually break the ground two or three weeks before planting time. When ready to plant I harrow it thoroughly until it is well pulverized, and run the roller over the surface, which puts the land in fine shape for the reception of the seed.

In planting corn, it has been my method for a good many years to list it. I do not begin planting until the ground is warm and in good condition. Planting too early, while the ground is cold, is liable to give a poor stand.

upward, thus leaving the bottom of the furrow raised in the middle. It cultivates better and the water does not settle over the corn before it comes up. I weight this well and go over the corn two or three hours after planting—just as soon as the dirt will not stick.

In cultivating, while the corn is small I use narrow shovels on the cultivator, which do not throw earth over the plants, and thus enables one to get close to them. I keep all weeds down and the soil loose, thus giving the corn an opportunity to make a steady, vigorous growth. I continue the cultivation until the corn has commenced to tassel. I do not believe there is any danger of too much cultivation, provided it is shallow and not done when the ground is too wet.

W. H. Underwood.

A groceryman is quoted by the Leavenworth Kansas Post as saying: "A farmer was in my store buying butter, eggs and potatoes yesterday." The farmer explained to the groceryman that he was raising corn on his quarter section. And incidentally he charged the account. There is a need for the practical farmers who raise all they need for the table.

The Maharg Short-horn Sale.

It was quite a good crowd that attended the Earl Maharg Short-horn sale at Audubon, Iowa, March 29th, yet the spring work and the nice weather kept a great many farmers from attending. Forty-seven head were disposed of at an average of \$103.70, which was considered very satisfactory. The bulls averaged \$136.43, the top being the yearling bull, King, which went to F. W. Weed, Herring, Iowa, at \$225. The cattle were not specially fitted for the sale, but were in good breeding condition. Geo. P. Bellows cried the sale. The buyers' names follow: Mr. Geo. A. Foley, Audubon; E. M. Parsons & Son, Carroll; J. T. Judge, Carroll; J. A. Richardson, Wall Lake; Allee Campbell & Son, Boone; W. C. Meyer, Carroll; C. S. Buckley, Holstein; Geo. Mendenhall, Audubon; C. A. Oldson, Wall Lake; W. H. McLaughlin, Shelby; H. J. McGill, Vail; C. W. Daws & Son, Harlan; J. C. Hardman, Brayton; W. Sporter, Templeton; W. R. Lewis, Gray; Jim Henil, Audubon; Miss C. M. Dodge, Exira; Geo. Brody, Audubon; A. G. Forsbeck, Gray; Rasmess Williamson, John Desmond, Atlantic; F. W. Weed, Herring; Chas. Owen, Guthrie Center; M. E. Jenkins, Brayton; Frank Flynn, Guthrie Center; C. C. Christiansen, Kimballton; R. H. Hinde, Orange City.

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Vitaline is the greatest upbuilder of the animal system that has ever been discovered. It fits the animal to combat disease—its use has saved thousands of dollars for stock raisers and will do the same for you. Write **INTERNATIONAL DRUG CO.** Marquardt Bldg., Des Moines, Iowa.

TEST YOUR CORN —OR— BUY TESTED CORN

Either is absolutely necessary this year. By that we do not mean testing for an average, but EVERY EAR MUST BE TESTED and the weak ones discarded. This is what we are doing. Every ear we sell has been TESTED TO GROW. Only a limited supply at \$5.00 per bushel, in the ear only, butts and tips shelled.

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Come with us. Let nothing interfere. A land offer of this kind, under the Carey Act, is the golden opportunity without risk that you have been waiting for. Regular excursion trains will run from all points on the first and third Tuesdays of each month. But come with us in time for the drawing, on the April 19th excursion. This will give you ample time to look over the country and our property before the drawing. Sleepers direct to the lands and will remain until after the opening. Round trip tickets wonderfully cheap.

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Think of it! Richest of soil; most perfect irrigation system, with perpetual water rights; best of markets; delightful climate; fine transportation; good roads, schools and churches; telephone system; free mail delivery; all conveniences of a highly developed community—Prices only \$37.50 to \$50.00 an acre, on easy terms, 10 years to pay.

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When writing mention this paper.

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YES—In the Yakima Valley and Lots \$30.

Buy a lot in Yakitat where you might do as other have done out here. One man made 1200 per cent in eight years in one western town; another the same in six months. We expect a great deal from Yakitat. On the main line of the Northern Pacific Ry. In the famous Yakima Valley; the center of 500,000 acres of the best fruit land that will soon be irrigated. Starting now. Send for literature. You may pay \$5 down and the same monthly until paid. E. B. Butler, 1179 Am. Bank Bldg. Seattle, Washington.

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\$10 TO \$40 PER ACRE LAND IN the Famous Northwest North Dakota where you are close to railroad market and have the cream of our State soil for all kinds of small grains as well as vegetables of every description. Write me for my booklet. I guarantee you a "good investment" that will bring you big returns ranging from 25 to 100 per cent or more on the dollar. I speak all Scandinavian languages and promise you courteous and honest treatment.

O. A. HOUGE, WILLISTON, N. DAKOTA.

HOMES IN THE ROSEBUD COUNTRY

CROPS SURE—GOOD WATER—DELIGHTFUL CLIMATE WE have a few more good relinquishments in Tripp County. They will not last long. Improved farms, raw land and stock ranches. Write for land lists, or any information desired. F. W. Rathman Land Co., Dallas, S. D.

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseecker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address **The Allen Co. Investment Co., Longton, Kan.**

When writing mention this paper.

READ THIS!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

Mr. Farmer or Stockman

WE have a number of bargains in good farm or ranch propositions in Charles Mix county, the corn belt county of South Dakota at reasonable prices and terms. If interested, write

C. VANDERBOOM, Platte, South Dakota.

CROP PAYMENT PLAN

I OWN forty quarter sections of land in Minnesota and North Dakota that I will sell in 160 acre farms on the crop payment plan to experienced farmers who can furnish good recommendation. D. J. McMahon, Endicott Bldg., St. Paul, Minn.

EASTERN KANSAS

I HAVE for sale at owners' prices over 300 choice improved farms in Lyon and Coffey counties, in the beautiful and fertile

NEOSHO RIVER VALLEY

Fine corn, wheat, alfalfa, timothy and clover. Write for new illustrated descriptive circular. Mention The Homestead when writing. Address **ED F. MILNER, HARTFORD, KANSAS.**

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address **BERT I. WELD, SLAYTON, MINNESOTA.**

CHEAP FARES SOUTHWEST

Now is the time to make a trip to Oklahoma or Texas and see for yourself the opportunities that abound on every hand—chances that cannot last long as the country is being settled rapidly.

On the First and Third Tuesdays of each month

excursion tickets are sold at especially low rates to Oklahoma and Texas with privileges of stop-overs. Such a ticket enables you to visit a large section of country—seeing for yourself what the Southwest offers. Will you go now, or wait longer until land prices advance to the top notch and the opportunities are all snapped up? Probably I can help you decide—at any rate write me for some literature and further information about the Southwest. 62

W. S. ST. GEORGE, G. P. A., St. Louis



When writing mention this paper.

Pig Breeding and Feeding

By W. H. Underwood

AT THE present time that humble friend of agriculture, the pig, is enjoying a full measure of popularity. The why and wherefore of this is not obscure. As a rule, when the market booms there is a good reason for higher prices, although the magnitude of the increase does not always have direct relationship with the apparent scarcity of supply. Those who have studied the markets of the world realized many years ago that better times were in store for pig breeding.

The writer's intention is not to elaborate a universal experience, or to dwell upon the reasons why the present price of hogs is so high, but to refer to one or two questions pertaining to pig breeding from the points of view of the pedigree breeder and the ordinary farmer, who may not keep as many breeding sows as fill his yards, but is dependent upon the store market.

Perhaps a word or two is first of all permissible upon the breeds themselves. The keen observer cannot fail to have noticed one thing in particular in relation to pedigree-stock breeding. It has resulted in the transplanting of various breeds into districts to which, hitherto, they have been foreign. Take the case of the Berkshire as an example. It is probably true to say that at one time there was a no more provincially domiciled breed than the popular black. Yet as a result of careful breeding and the advertisement peculiar to pedigree, they are to be found everywhere. This is due, particularly of late years, to the continuous extension of the circle of supporters who recognize the sterling qualities which have made the large black one of the best of the ordinary farm pigs.

To the white breeds, however, have fallen the distinction of being most widely distributed. The large white is equally at home in the Arctic climate of the far north and the more temperate ones of the south. Nor is it surprising, for we have no better bacon pig, and none that crosses more readily and with greater advantage to the resultant progeny. The aim of the large white breeder has been to maintain size, but he will have quality. It is quite correct to say that the pigs of thirty years ago were bigger than they are today, but it is also true to qualify that observation with the remark that they were coarser. The bacon curer has effected the change, and when we come to examine the sources whence some of the chief bacon factories draw their supplies, the fact that impresses itself most on the mind is that the large white boar has been freely employed to grade up the ordinary farm pigs of the neighborhood.

Breeders of today are keeping in view the lengthy pig, with as little waste about the shoulders and jowl as possible. It is a curious fact that the large white-pig breeder will not countenance the thick-shouldered type of pig, while the Berkshire breeder, on the other hand, does not object to a pig somewhat dense at the shoulders, provided he is not visibly coarse. There is another point, too, in which great improvement is noticeable in the large white, and that is the immunity from spots. The objectionable blue spot is an inheritance from other sources, no doubt at one time used in building up the breed.

The middle white is a handy weight. Of late years it has more than ever approximated to market requirements, and for crossing purposes imparts a fine thickness of flesh. At the same time there is a tendency nowadays to get away from too short snouts. There can be no doubt that in the average middle white there is more waste than in a large white for bacon purposes, and it is the bacon pig that scores. The smaller white porkers are all but extinct, and have little or no place on the farm today, if the greatest profit is the standard by which their utility is to be judged. They are still kept as a fancy, but in the show yard are seldom provided for.

The Berkshire has scores of friends, and it is a correct reflection of its

present position to say that it enjoys the most influential backing. If a pig touches a big price in the sale ring, depend upon it, it is a Berkshire. The one quality in which breeders claim that the Berkshire is supreme is in the readiness with which it will put on flesh on a medium diet. It grows well. Moreover, it shares with the large white in popularity for crossing purposes. Not so many years ago—shall I say fifteen?—breeders could not get them big enough. The cry seemed to be for pigs of monumental proportions. That craze died. It was followed by another extreme—a short, dumpy pig of superfine quality. Today, however, a happy medium is being observed, and breeders are doing all they can to encourage lengthy pigs. They realize that for bacon purposes length is necessary.

The Tamworth is one of England's little-known breeds at home, but with us in the states is a favorite. The Tamworth is more delicate in tastes than the Poland China or Duroc Jersey, being a pig of superfine quality. There is a wide gulf between the show Tamworth and the ordinary farm pig of this breed. No doubt that is due to the magnificent work of a few breeders; but even the best of them cry out for new blood, knowing the

difficulty of obtaining it, and the serious consequences attendant on its denial.

The Tamworth is solely a bacon pig, and some of the finest specimens with a little more shapeliness in their hams could well be presented as an ideal from a curer's point of view. The ordinary farm Tamworths are of a roving disposition, and somewhat long in the leg, to be regarded as ideal pigs.

One of the latest recruits to the pure breeds of pigs is the large black. The progress it has made is quite astonishing. It holds the fort in Essex, Suffolk and the southwestern counties of England. For many years this breed, with its peculiar formation of ear and head, was kept on the farms in certain districts, but it has progressed very materially in two directions. Firstly, there is an evident tendency to inculcate early maturity, and, secondly, to run to weight. Breeders should direct their energy toward demonstrating its value for crossing purposes. The large white and the Berkshire owe their popularity largely to this, and a few public object lessons in the potentialities of the large black boar for cross breeding would do much to establish the reputation of the breed.

In these days of early maturity the question, should the pig have a probationary period as a store, has been put and answered variously. This problem has really a wider application than merely to pig breeding. The farmer who combines breeding with feeding, as a rule does not keep his

young pigs under continuous fattening. It is one thing for the specialist to proclaim that it is most profitable to abolish the store pig, but there are many farmers so situated that it pays them better to breed on a small scale and sell their pigs young, leaving the fattening process to others. The farmer who markets his hundreds of pigs annually enjoys exceptional facilities, but there is much to be said for the probationary period as a store.

In the matter of pig management most difficulty is experienced in the selection of food. It is a fact of common knowledge that the finest bacon is produced by the aid of barley meal. But even in these times of porcine prosperity the balance sheet would not appeal greatly to the farmer who was too liberal in its use. All things considered, a few oats and bran to the young stock, and finishing on a mixture of corn and barley meal, will be found satisfactory. The very finest bacon can thus be produced. Potatoes can be utilized very profitably in the pig pen. Household slops are good, but care to eliminate that common article of household use, soda, is necessary. Whey is bone-forming, and separated milk will perform a similar function. In summer a bite of alfalfa cannot be bettered. The pig is then in clover.

One asset of pig keeping should not be overlooked. Pig manure is exceptionally rich, and after what is turned into pork there is a residue which can be used to the greatest profit on the farm.

KISSEL KAR

4-5-7 Passenger

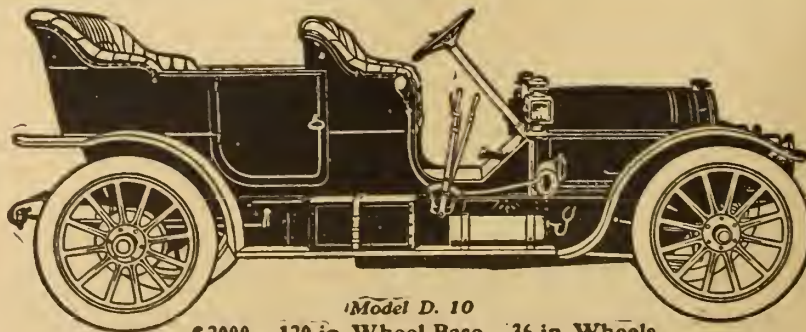
A High Grade, Masterful Car at the Right Price.

Model D. 10, the four and five passenger 50 H. P. \$2000 Kissel-Kar for instance, is the car representing the highest type of automobile construction and ability.

It is a superior machine that has the speed, the appearance and the dependability, such as a car must have to give satisfaction under the hard tests of rough, heavy or muddy roads.

Hills will never bother you, because it is a strong hill climber. D. 10 is the model that gained fame in the national automobile contests in California for winning hill climbing contests, and its performance on the road. Some of the machines it defeated were the highest priced cars sold. Since then we have made it a 50 H. P. car instead of 40 H. P., adding 10 H. P. to its hill climbing and road ability. This, beyond all doubt, makes it the best car, regardless of price, to give satisfaction under all conditions.

The Kissel-Kar is simply constructed of best material. Every part is made in our own factory and made absolutely perfect. Because of the simplicity and perfection of its mechanism, it costs less to run a Kissel-Kar than to keep a good span of horses. Any member of the family can run it because it has simple, easy control. It's the car without mysteries—roomy, fine appearing and reliable.

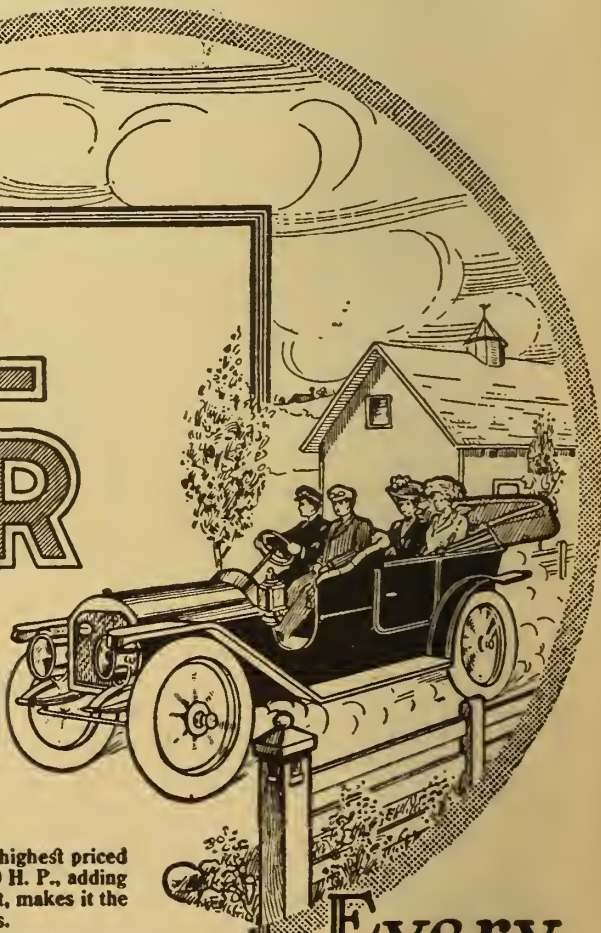


Model D. 10
\$2000. 120 in. Wheel Base. 36 in. Wheels.

The Kissel-Kar will bring your family into close touch with the towns and cities, with all the advantages of churches, schools and social life. Besides its business uses, it's an investment in happiness for every member of the family. Suggest the idea in your family circle, and see.

Write for Free Catalog. Our beautiful catalog fully illustrates and describes all the Kissel-Kar models and convincingly explains the things you should know about automobiles. If you contemplate the purchase of a car, do not fail to write for the catalog today.

KISSEL MOTOR CAR CO., 146 Kissel Avenue, Hartford, Wis.



Every
Inch A
Car

30-50-60
Horse Power

\$1500
2000
2500
3000

Test Your Seed Corn

FIFTY million dollars can be added to Iowa's wealth every season. This sum is almost inconceivable, and such an undertaking sounds improbable, but it can be accomplished in a very easy manner. It can be done simply by testing the seed corn.

Such a process is neither expensive nor laborious. All it takes is a little time and care. If it is to be done by every farmer in the state, the average production of corn could be increased ten bushels per acre.

There are 10,000,000 acres of corn land in Iowa. An increase of ten bushels to the acre would mean a total increase of 100,000,000 bushels for the state. The average price of corn is fifty cents per bushel, so that the 100,000,000 bushels of corn would be worth \$50,000,000.

Take as an illustration one ear of corn and see what the effects would be if it were a bad ear.

An ear of seed corn contains about 1,000 kernels and each kernel planted should produce a stalk. Each stalk should produce an ear.

A dead ear planted means the loss of 1,000 stalks and consequently 1,000 ears. There are eighty ears to the bushel, which means the loss of twelve and one-half bushels of corn. As stated before with corn worth fifty cents per bushel the loss in dollars and cents would be \$6.50, on account of one single ear that was bad.

Had the farmer planted a good ear instead of a bad ear he could well afford to have paid at least \$5 for one single ear of corn and then had a good profit left.

For \$5 he could have bought a bushel or more of good seed corn, or he could have tested the ears before planting without it costing him anything.

Apply the same illustration on a larger scale and see what it means. Suppose a farmer was going to plant a 160-acre farm with seed corn that had not been tested.

It takes twenty-one bushels, or 1,680 ears of seed corn to plant 160 acres, and suppose the farmer takes his seed from the 1909 crop. Over half of it will not germinate or grow. This means he has planted 840 ears that are worthless. If these ears had been good they would have produced 840,000 ears or 10,500 bushels of corn worth \$5,250.

Could the farmer afford to throw away such a sum of money, when he could have saved it by the simple process of testing and planting only good ears?

The importance of testing the seed corn cannot be overestimated, for it not only saves a great loss to the farmer, but will add very materially to his individual wealth and a vast sum to the farmers of the state as a whole.

It is a business proposition to the farmer and should be treated with equal importance. Fifty million dollars more per year to the Iowa farmer means fifty million dollars more per year to the Iowa retailer, manufacturer, wholesaler, jobber and every other kind of business man. It is so important that every man, woman and child within the borders of the state, should boost for it, talk about it, work for it, and above all see that every farmer does it.

In discussing the subject, Prof. P. G. Holden, of the Iowa State College, at Ames, says:

"If I could give one order that would be carried out by every farmer in the state, it would be to make a thorough germination test of at least six kernels from each ear of seed corn intended for planting."

If the value of Professor Holden's advice needed any proof, the careful study of most any corn field would give it. Select a field of good corn and go through it, carefully counting the missing hills, the hills with only one or two stalks and the stalks that have produced no corn. This kind of an investigation will show how great is the need of planting only the best tested corn. Recently the Iowa State College made careful counts of the number of stalks per hill in 1,000 representative corn fields in the state. It found in some cases less than 40

per cent of a stand and the average was hardly 66 per cent not including the weak, unproducing stalks.

Just think what that means. In 1,000 fields of corn one-third of the ground was not producing a thing, worse than idle because it had to be cultivated the same as the ground that was producing corn.

Had these same farmers planted tested seed corn and secured a perfect stand they would have increased their yield twenty to forty bushels per acre and they would have done it at absolutely no increased cost of money or labor excepting the few hours in the winter testing the seed corn.

Testing seed corn is very interesting and instructive work that is neither hard nor tiresome. It is done in the winter or early spring when there is plenty of time. The hours spent in testing seed will do more toward getting a full crop than weeks of hard work in the field later in the season, for no matter how careful the cultivation or how favorable the season a full crop is not possible if the stand is poor or the vitality low.

It is the plants from kernels with low vitality that are first affected by the drouth, by the heat or the weeds. These plants are responsible for more failures and poor crops than anything else. A careful germination test shows just what the vitality of each ear is. It shows more clearly than anything else what next year's crop will be. Record yields are not possible unless seed corn is planted that will produce plants with strong root systems as well as strong stalks. A glance at properly tested seed corn shows both the sprouts and the roots and no seed should be planted that has not proven in advance that it is capable of producing a good ear of corn.

Iowa should not only increase the production of corn ten bushels to the acre or 100,000,000 bushels to the state, but it really ought to be fifteen or twenty bushels more to the acre and 200,000,000 more bushels for the state or an increased wealth of \$100,000,000.

What good does it do to go through your fields cultivating hills where there are no stalks? Think of the labor lost in the field because of poor stand. It takes just as much labor to tend to a field having an average of one and one-half stalks as it does a field having an average of three good stalks per hill. Do you realize the labor lost? Plant good, vigorous, live seed and you will not have so many one and two-stalk hills. You will be worth a whole lot more money at the end of the year, the prosperity of the state and the nation will be enhanced and the wealth of the country will be increased an incalculable amount.

Test your seed corn.—Des Moines Capital.

INTENSIVE FARMER SUCCEEDS.

In Nebraska, as in many other states, it is generally considered that a man must have at least 160 acres in order to live. Arnold Martin's farm consists of just twenty acres, and from this land Mr. Martin provides for his family and saves \$1,000 each year, says a newspaper dispatch from Pawnee City. While Mr. Martin raises a certain amount of fruit, his principal crops are the usual farm crops in Nebraska. Not a foot of the twenty acres is permitted to remain idle and two or three crops of something or other are raised on every acre every year.

Mr. Martin came to Pawnee City ten years ago from Switzerland, without a penny. All he knew was farming. He went to work as a farm hand and in three years managed to save \$275. Then he started out for himself.

"Twenty acres is all I want," Mr. Martin said. "That's enough land for any man, 320 acres is a misfortune and 640 acres a downright calamity."

Mr. Martin found his twenty acres. It was rocky and not worth farming, so the owners of the surrounding farm said. Mr. Martin paid only \$12.50 an acre for it, while "decent" land nearby was selling at from \$50 to \$75 an acre. The purchaser paid just

\$100 down and gave a mortgage for the balance. The remainder of his money he used to buy farm implements and live stock.

The bulletin which the department of agriculture issued concerning Mr. Martin says:

"His neighbors used to laugh at the farmer and nicknamed him 'Hazel-brush,' but they now say, 'He is making more money off his twenty acres than we are off our 160 acres.' He does not want any more land, but wants to farm what he has better than he does now.

"So successful has the young farmer been that today, seven years after he purchased the little farm, he is out of debt, has a good home, fine barns, cash in the bank and a standing offer of \$2,500 for his twenty acres. Last winter he spent three months in Switzerland and for the last three years has been to the Colorado mountains every summer.

"The intensive methods pursued by Mr. Martin are of particular interest. The land is kept busy from spring until fall. At the last cultivation of potatoes, corn is planted between the rows. A full crop of potatoes and a fair crop of corn is produced from the same ground. As many as seven hundred bushels of potatoes and seventy-five bushels of corn are produced from each acre planted this way. After the potatoes ripen the corn keeps the weeds down. By the time the corn needs the ground the potatoes are ripe and the corn is in the shock before it is time to dig potatoes. Some parts of the potato patch are sown with millet and sorghum just before the last cultivation. This makes a good crop of feed and does not hurt the potatoes. Squashes are sometimes planted in the same way. The onion patches grow corn and melons, which are planted in rows between the onions. Part of the orchard is set with small fruit and part is planted with potatoes and truck.

"In dry spells all the water that the windmill will pump is used for irrigation and it is here that intensive farming reaches its height. The water from the well flows directly to the ditches as pumped. A little manure is scattered in the ditches to prevent washing.

"The orchard contains nine hundred pear, two hundred cherry, eight hundred peach and a few apple trees. The trees are planted in straight rows and between the trees are raspberry bushes, tomatoes, cabbages and sweet potatoes, with beets close by. A small field of two acres is kept for annual crops. The slopes are rocky in places and the soil is a residual clay loam formed from the weathering of disintegrating of the limestone which underlies it. Eight acres of this is set in orchard, one acre in alfalfa, one in timothy and clover, three in pasture and a little in annual crops."

The government intends to exploit the style of farming carried on by Mr. Martin and to teach farmers all over

the country to follow the methods of the "most successful farmer of the country" and get rich.

A young Kansas farmer bought a pair of overalls recently and found in them the name of the sewing girl who made them. He very promptly wrote her an effusive letter and in due time received a reply, which, however, was void of the romance usual in such cases. Here it is: "I am a working girl, it is true, but I make a good living and I do not care to support a husband, as I would do if I married some silly noodle who gets mashed on a girl he never saw. Permit me to say that I do not know how my card got in that pair of overalls, and that when I do marry, if ever, it will be some fellow who can afford something better than a 48-cent pair of breeches."

A Sanitary Chi-ken Coop.

On page 27 will be found the advertisement of the Maurer Manufacturing Company, setting forth some of the advantages of their galvanized iron chicken coop. This is a coop which is practical, sanitary, easily cleaned and durable. It affords protection at all times and is light, strong and an ornament to any chicken yard. A folder telling all about it may be had by writing to the Maurer Manufacturing Company, of Freeport, Ill.

LIGHTNING STRUCK

and caused 2165 out of a total of 2960 fire losses to farm buildings in one year in one state according to an official report of 111 fire insurance companies. Do you realize that this means over 75 per cent. of all fire losses are caused by lightning?



Professor West Dodd's Wonderful Inventions Control Lightning

D. & S. Woven Copper Cable Lightning Rods and System of Installation are acknowledged by the leading fire insurance companies of the world to afford the only safe protection against ravages of lightning.

Spring and Summer Storms are coming. Now is the time to act! Protect your home and the farm buildings. Make yourself, your family, your stock, your crops safe.

Many a door is padlocked after the horse is stolen. Lock yours now. Install the D. & S. System of protection.

IT PAYS FOR ITSELF

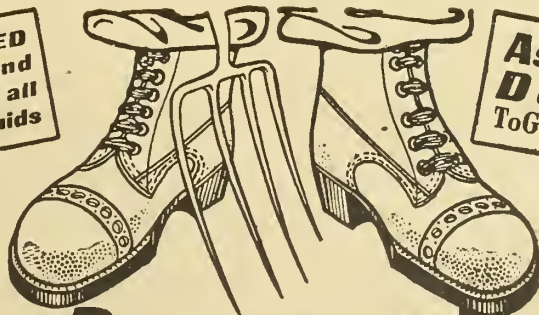
Leading fire insurance companies of the world (list of them in catalogue—send for it) will allow 10 to 33 1-3 per cent off your insurance bills when your buildings are rodged with D. & S. Woven Copper Cable Lightning Rods. Thus the D. & S. Rod pays for itself and then begins to save you money, when your next insurance bills come due.

More D. & S. Rods sold than any other three makes combined. Insist on the trademark D. & S. It is your protection.

Send for catalogue and book, "The Laws and Nature of Lightning," free. Address

DODD & STRUTHERS
417 Sixth Avenue, Des Moines, Iowa

GUARANTEED to withstand manure and all barnyard liquids



Ask Your Dealer To Get You a Pair

The New Barnyard Shoe

Guaranteed Manure and Ammonia Proof

Fills a long-felt want—just the shoe for farmers and stockmen. Built to withstand the daily soaking in ammonia-impregnated slush of barnyard and stable. Our new tannage process preserves pliability, softens and makes the "BARNYARD" Shoe outlast the ordinary kind. A strong statement, but proven by facts.

Barnyard shoes are comfortable, serviceable, economical, and every pair bears a guarantee to withstand the destroying effects of manure and all barnyard liquids. If not at your dealer's, send us \$2.75 for trial pair, standard fastened, tan or black; \$3.25 for Good-year Welt, by prepaid express. One farmer in each new territory can get a pair of Barnyard Shoes Free. Write for catalog and free proposition.

The Huiskamp Bros Co., Dept. 10 Keokuk, Ia.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

Apr. 20, Geo. McMaster, Bedford, Iowa.
 April 30, L. E. Berkheimer, Malvern, Iowa, and Geo. H. White, Emerson, Iowa, sale at Wayne, Neb.
 May 20, W. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 2, J. G. Biller, Hartington, Neb., at Crofton, Neb.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 18, H. D. Parsons, Newton, Iowa.
 June 21, Jesse Binford & Sons, Liscomb, Iowa.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranzi, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

May 3, Marvin & Durrett, Chicago, Ill., M. A. Judy, Mgr.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 6, James Williams, Marcus, Iowa.
 June 7, Stanley R. Pierce, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.

Hereford Cattle.

Oct. 20, H. D. Clore and Z. T. Kinsell, Chariton, Iowa.

Holstein-Friesian Cattle.

June 21, 22 and 23, Robt. E. Haeger, Algonquin, Ill.

Shire Horses.

April 20, Trumans' Pioneer Stud Farm, Bushnell, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Lincoln Hotel, Lincoln, Neb.
 A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
 E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FILED NOTES.

Hereford bulls are advertised for sale by Mr. A. F. Hager, Avoca, Iowa.
 Mr. Z. T. Kinsell, Mt. Airy, Iowa, is offering some extra choice young Hereford bulls for sale on page 52.

Mr. W. H. McLaughlin, Shelby, Iowa, is offering a cracking good lot of Scotch and Scotch-topped Short-horn bulls for sale. See his advertisement on page 53.

Chieftain 51221, one of the best big-type yearling bulls in the state, is offered for sale by Mr. H. Fessenmeyer, Clarinda, Iowa. Write for price or go and see him.

Some very excellent young Scotch bulls, fit for herd headers, are advertised for sale by Mr. S. A. Bixler, Corning, Iowa, on page 52. If you are looking for a choice young bull to head your herd, either write or go and see Mr. Bixler.

Short-horn bulls, both Scotch and Scotch-topped, are offered for sale by the Messrs. Riley Bros., Albion, Neb., on page 52. They have about fifty bulls for sale and can fit out carload lots in good shape. Write them for prices and mention The Homestead.

Messrs. Isenbarger Bros., Battle Creek, Iowa, are advertising some extra choice Aberdeen Angus bulls for sale of the Blackbird, Pride and Jilt strains, and some of these are good enough to head any of the best herds. It will pay anybody that wants an Angus bull to go and see them.

Mr. D. H. Lewis, breeder of Chester White hogs, at Geneseo, Ill., advises us that he still has for sale some good gilts bred to farrow during April and May. He is having splendid luck with his March pigs this year and is prepared to book orders for spring pigs to be shipped at weaning time.

Mr. J. C. Savage, of Fort Dodge, Iowa, advertises on page 49 that he has for sale some good Clydesdale stallions from one to three years old, as well as mares of the same breed. He is selling these at prices which make them well worth the money and on terms to suit any responsible buyer.

The new advertisement of Messrs. A. Lentz & Son, breeders of Duroc Jerseys, at Pierson, Iowa, will be found on page 50. With reference to the stock offered for sale these gentlemen write: "We have 125 live pigs out of seventeen litters and have still twelve sows to farrow. We have one litter of eight by Col. Scott that are dandies, a litter of ten by Muncie Chief, a litter of eight by Iowa Notcher, a litter of six by Echo Top King, a litter of seven by Golden Model 3d, a litter of eight by Iowa Colonel, a litter of ten by Dreadnaught Jr. 2d, a litter of eleven by King Solomon 2d, a litter of eleven by Mackey's King. We have a few fall boars that we will price worth the money." For other information

concerning this stock write to Messrs. A. Lentz & Son, Pierson, Iowa.

Some splendid Poland China sows and gilts, bred for April and May farrow, are offered for sale by Mr. F. W. McIntyre, Red Oak, Iowa, on page 50.

Some extra choice Aberdeen Angus bulls of the Blackbird, Trojan Erica and Pride strains are offered for sale by Mr. John H. Fitch, Lake City, Iowa.

Mrs. A. M. Bonnett, of Birmingham, Iowa, is offering pedigreed rough-coated Scotch Collie puppies for sale in her advertisement appearing on page 28 of this issue.

Cruickshank bulls are advertised for sale by Mr. C. C. Norton, Corning, Iowa, on page 53, and he offers some extra good ones. Don't overlook Mr. Norton if you are thinking of buying a herd bull.

Mr. Frank Elder, of Green, Kan., the Duroc breeder who owns the great King of Colonels 2d and G. C.'s Colonel, offers twenty gilts either bred by or to one of these great boars. See page 51 for Mr. Elder's advertisement.

Mr. P. L. Savage, of St. Charles, Ill., whose advertisement of Scotch Collie pups appears on page 28, has excellent stock and is quoting most reasonable prices on these pups. Buyers will do well to get their orders in early.

Messrs. McLay Bros., of Janesville, Wis., write: "We have had seventeen new horses arrive by express from Portland, Me. They are a choice lot and are in good condition. We have just sold a very good Barren's Pride filly, rising two, to Mr. G. W. Miles, of Brooklyn, Wis." See page 53.

Messrs. J. R. Evans & Bro., of Maryville, Mo., are offering in Gallant Lavender 244228 and Diamond's Commander a pair of Scotch herd bulls that should go to head good herds. Several of the get of these bulls may be seen at Messrs. Evans & Bro.'s farm, so that the buyer may know just what to expect.

Mr. S. J. Philson, breeder of Chester White hogs, at Harlan, Iowa, writes under recent date, saying: "I have had a splendid trade and am all sold out of sows and gilts. I have a few choice fall boars that I wish to sell and will quote fair prices on them. They are old enough for service, right in every way and cannot fail to prove satisfactory to the buyer."

Messrs. Watson, Woods Bros. & Kelly Co., Lincoln, Neb., have at their barns opposite the University State Farm, sixty head of high-class Percheron, Belgian and English Shire stallions. These stallions are from two to five years old and weigh from 1,700 pounds up. They are an extra good lot of real drafters, plenty of size, good bone and splendid action, and are mostly of solid colors. The prices that are being made on these stallions should move them at once. Their recent importation of twenty-five stallions are also included in this special sale. Visit these gentlemen, look these horses over and make your selection before they have been picked. These gentlemen also give you a 60 per cent breeding guarantee that is absolute. For further information concerning this select lot of horses and their new 1910 catalog, write to Messrs. Watson, Woods Bros. & Kelly Co., Lincoln, Neb. See their advertisement on page 53.

A recent note from Mr. John Leitch, importer and breeder of Percheron, Clydesdale, Shire and Hackney stallions, at Lafayette, Ill., says: "Mr. J. J. Spear, of Stanwood, Iowa, bought from us a few days ago the champion premium horse, Sir Joseph (913204). This horse weighed 2,150 pounds and was sold at the rate of \$140 per pound. Mr. Spear selected him after having visited several other importing barns in the United States. Sir Joseph traveled the same district in Scotland as Garty Pride. We also sold the promising three-year-old colt, Springhill Marquis, to Mr. Morrow Whittaker, of Toulon, Ill. This colt was the first-prize three-year-old Clydesdale at the Illinois State Fair in 1909. Another promising three-year-old colt, Prince of Whitehouse, was sold to the Orion

Clyde Horse Company, of Orion, Ill." Mr. Leitch has at his barns high-quality horses of the breeds named that will be sold at reasonable figures.

As will be noted in the advertisement of Woodlawn Farm on page 51, that institution is offering for sale a number of Holstein-Friesian bulls ranging from two to twelve months old. They are of strictly high-class blood lines, being sons of Sir Netherland Cornucopia, whose two nearest dams averaged thirty pounds of butter and six nearest dams averaged twenty-five pounds in seven days. For additional particulars and prices write to the Woodlawn Farm, Sterling, Ill.

Clydesdale Stallions and Mares.

Those who are interested in buying Clydesdale stallions or mares should write or call on Mr. R. O. Miller, Lucas, Iowa. His recent importation of Clyde mares has arrived at his farm and prospective buyers should call and see them at once. He also has another importation coming, so there will be plenty from which to select. Mr. Miller writes us that he can sell good Clydesdale mares as cheaply as any other firm in the United States, and all he wants is for the buyers to come and see them.

The Willow Dell Herefords.

Mr. G. G. Clements, Ord, Neb., proprietor of the Willow Dell herd of Herefords, is offering just now some very choice Hereford bulls from fourteen to twenty-four months old. This is a very useful lot of bulls and they are being priced worth the money. The offering is sired, for the most part, by Fast Freight, the bull that Mr. Clements has shown the past few years with marked success. Bulls are getting very scarce and if you contemplate purchasing this season it will be to your advantage to communicate with Mr. Clements at once, mentioning this paper.

"Save-the-Horse."

The Save-the-Horse remedy advertised in this issue is sold under a positive guarantee. It is with some satisfaction that the manufacturers quote the praise of Mr. W. P. Murray, a prominent stock farmer of West Mentor, Ohio, when he says: "I never wish to be without a bottle of Save-the-Horse. In the fall of 1907 I bought a fine stallion and carriage horse. During the winter of 1907 and 1908 he threw out a thoroughpin as large as I ever saw. You can imagine my disappointment in having such a fine animal disfigured with a blemish of that kind. I applied a bottle of Save-the-Horse, as per instructions, with the result that the lump on both sides of the hock is entirely gone. The hock is today absolutely clean and there is no indication of the thoroughpin." For additional information with reference to Save-the-Horse, note the advertisement on page 31 and write to the Troy Chemical Co., No. 3 Commercial Ave., Binghamton, N. Y.

The Brookmont Sioux City Sale.

The big announcement of the Brookmont Farm on page 49 sets forth some of the details of the sale of Hereford cattle which Mr. Cook announces to take place at Sioux City, Iowa, on Tuesday, April 19th. Seventy-five of the best things of the Brookmont Farm have been cataloged for this sale. Forty-five are cows and heifers from fifteen months to four years of age, and practically all of these will have been bred or will have calf at foot by sale time. The thirty head of bulls are from ten months to three years old. This lot, Mr. Cook advises us, are right in every way. As has been the case with the entire herd, they have successfully undergone a thorough tuberculin test and are, therefore, absolutely free from any tuberculosis whatever. They are in perfect thrift and breeding condition, in nice flesh and just in that promising form which will do best for the buyer. A great many of these cattle are daughters or granddaughters of that grand old Imp, March On, that stands in a position leading all the great Hereford bulls of the day. Others trace to Imp, Southington, Dale,

Anxiety, Lord Wilton, Imp. Albany and others equally as good. Complete details may be had by sending for copy of the catalog, for which address Mr. A. E. Cook, Odebolt, Iowa.

The Hoover Potato Digger.

It may be a little early in the season to talk about potato diggers, but it is certainly not too early to begin to think about them. The Hoover potato digger, manufactured by the Hoover Manufacturing Co., and advertised on page 19, is a machine which answers every purpose for which it is designed. It is only one, however, of the numerous line of potato-growing machinery made and sold by that company. An illustrated catalog and price list giving the entire line of machinery made by the Hoover Manufacturing Company, Box 41, Avery, Ohio, may be had upon request.

McMaster's Short-horn Sale.

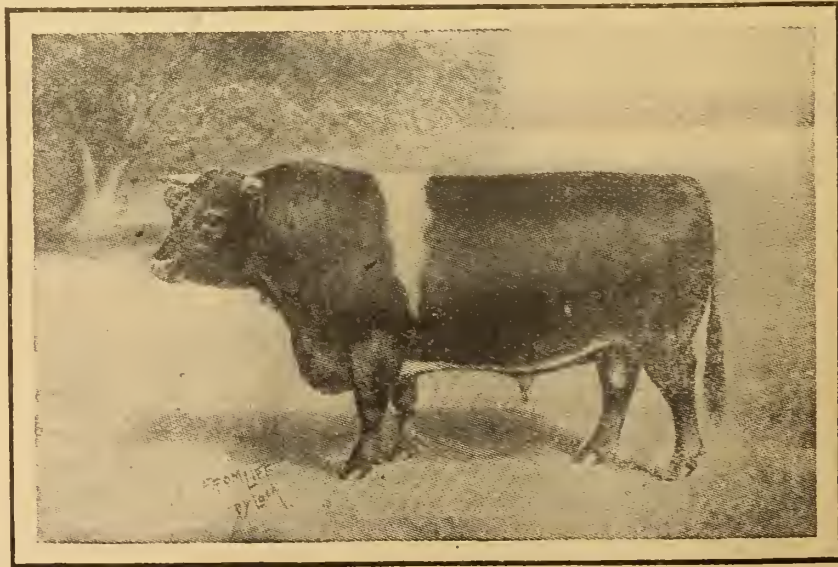
Buyers of Short-horn cattle will be interested in the sale of Mr. Geo. McMaster, which will be held at his farm six miles south of Bedford, Iowa, on April 20th. Mr. McMaster is only selling twenty-five head of cattle, but he is selling some good things, among which are ten head of good young bulls. The sire of these bulls is Crowned Goods 299777, a son of the celebrated Good Choice, and there are some splendid young bulls among the number. One of the best of these is a pure white bull called Snowbank, out of Orange Blossom 4th by Gay Winsome. This bull is just a yearling and will weigh 1,300 pounds. He won't make a bad herd bull for anybody that gets him. There are a number of other very excellent bulls in the bunch and it will be a splendid place to buy bulls. He is also selling some good cows and heifers in this sale. We believe it will be a most excellent time and place to buy some good bulls and some good females. Write him for a copy of his catalog and mention The Homestead.

North & Robinson's Draft Horses.

Percheron, Belgian and English Shire, imported and home-bred stallions and mares, of the most approved type and breeding, and at popular prices, are being offered the public by this well-known firm whose advertisement appears on page 55. Their imported stallions are in fine condition and are ready for a season of hard service. The home-bred stock are of the same high quality and may be had at a very low figure, quality considered. The facilities that these gentlemen have for the production of horses of high character are of the very best. To the fine breeding places at Grand Island and Cairo has been added a 6,000-acre farm at Bridgeport. This will give them, when equipped, one of the finest and largest breeding establishments in the country. On this new acquisition there are 1,200 acres of choice alfalfa land. Plenty of alfalfa, abundance of native prairie grass, and the splendid climate of western Nebraska is certain to produce horses of great size and well high unlimited vitality. They now have at Grand Island, Neb., one of the best lots of young stallions to be found, either imported or home bred. It will pay you to see these horses before making your purchases. If you cannot do so write for particulars to Messrs. North & Robinson, Grand Island, Neb.

High-Class Herefords at Auction.

The joint Hereford sale to be held at South Omaha, Neb., April 13 and 14, 1910, by Messrs. W. N. Rogers, W. H. Curtice, H. N. Thompson, T. A. Reece, Ben Broughton and others includes some of the best Herefords that will go in a sale ring this season. Every man that has kept abreast of Hereford affairs knows that these gentlemen have bred a large part of the Herefords that have made recent history. They are all men that have had the interest of the breed at heart and their winning at the leading fairs have done them great honor and have been of untold value to the interest of beef cattle generally. The cattle that are consigned to this sale are of the same high standard that has always marked the offerings made by these gentlemen. Attention is called in particular to the excellence of the bull offering. There are a number of show prospects and the majority are real herd headers. In fact, there are bulls in this offering, in point of individual merit and blood lines, good enough to head any herd in the country. In point of individual excellence and richness of breeding the offering must be recognized as one of the best that has been offered at public auction in years. There will be fifty head sired by Beau Donald or by his sons, a number of grandsons of the famous Imp, March On, some by Beaumont and Capricornus and others strong in the blood of Beau Brummel. Among the females are show cows, show heifers and grand breeding matrons. Mr. Rogers consigns nine top young cows, all of his own breeding, than which no better could be said of them. Mr. Curtice is placing at your option females by that champion sire of champions, Beau Donald, and bred to the \$9,000 Perfection. This mating has never failed to produce show stock. Mr. Thompson is offering a number of fine females right in their prime, mostly sired by Capricornus, a Beau Brummel-bred bull, and are all bred to Beau Perfection, he by Beau President and out of a dam by the champion, Perfection. Those who have received the catalogs will appreciate the richness of the blood lines of one of the most notable offerings of this season. If you desire to possess as good cattle as can well be found, arrange your affairs to attend this sale. The cattle are plentiful that interest the seeker after the best and bargains there will undoubtedly be. Show cows, grand breeding matrons, show bulls, herd headers and bulls for the improvement of grade herds. Do not fail to mention this paper when writing



AN INDIANA SHORT-HORN.

The above illustration is a representation of the Short-horn bull, Homer Marshall, one of the individuals cataloged for the public sale of Thomas & Ellison, of Rushville, Ind., which takes place on April 12th. This bull is an animal of unusual individual excellence, as the picture will show. He is a son of the noted champion, Whitehall Marshall. The sale contains many other good animals, as will be noted in the advertisement on page 51.

Mr. W. N. Rogers, McCook, Neb., for catalog, and arrange your business to be on hand for this important event.

Buying Tested Seed Corn.

The seed corn advertisement of the Red Oak Seed Company will be found on page 42. It offers for sale corn that has been tested to grow. Only the very best will be sold at the prices named in the advertisement. Forward orders to the Red Oak Seed Company, Red Oak, Iowa.

Bulls at Farmers' Prices.

The advertisement of Mr. R. J. Cox, breeder of Short-horn cattle at Grinnell, Iowa, will be found on page 53. This ought to interest every farmer who wants to buy strictly first-class Short-horn bulls. Mr. Cox has them that are right in formation and in excellent condition and in blood lines and beef-making quality that are hard to beat. His prices are reasonable. Write to the address named in the advertisement.

The Common Sense Roofing.

In all building operations effectiveness and durability should be given just as careful consideration as the cost. It goes without saying that the roof of every building is its most important point. It is, therefore, reasonable that special attention be given to roofing materials. The Genasco ready roofing made by the Barber Asphalt Paving Company, and advertised on page 38, is a material which answers every requirement. It is durable, is fireproof and is a successful competitor with any other roofing material.

Hail Insurance Agents.

The German Insurance Company, of Le Mars, Iowa, as will be noted in their advertisement on page 40, want to engage agents to solicit hail insurance in Iowa and South Dakota. This company have been in operation for a good while and have paid more than \$100,000 in losses to farmers in the section named. During the time of the company's existence they have made settlements promptly and without ever resorting to litigation. They treat policyholders fairly. For territory, terms and other information write to the address named in the advertisement.

A Direct Gear Drive Loader.

The Oxford hay loader advertised on page 32, having a direct gear drive, has no chains to wear out, break, run off, or otherwise get out of order. The direct gear drive is the only system of procuring all the power. It is always there and always does the business. There are a great many other facts with reference to the Oxford loader that will be of interest to our readers. For these we refer them to a copy of the circular that gives full information, which can be had by addressing the manufacturers, Messrs. Lasack Bros. & Co., Oxford Junction, Iowa.

A Great Show Record.

A new advertisement of the Greeley Horse Importing Company will be found on page 55. It contains valuable information to horse buyers. The Greeley Horse Importing Company is under the management of that veteran importer, Mr. A. B. Holbert. He has imported many of the best horses in the United States. At the recent fat stock show, held at Ft. Worth, Texas, he showed a fine line of stallions and his winnings included first and second on Belgians, first and second on three-year-old Percherons, second and third on two-year-old Percherons, first and second on aged Hackneys, first and second on two-year-old Hackneys, first on French Coachers, second and third on aged German Coachers, second on four-year-old German Coachers, grand championship all ages and breeds of draft horses competing, and grand championship all ages and breeds of German Coach, French Coach, Hackney, carriage and road horses shown. Good stallions of all the breeds mentioned will be found in large numbers of the highest quality in the barns at Greeley, Iowa. Note the statement in the advertisement that for fifteen cents in stamps a large, colored lithograph twenty-four by thirty-six inches in size and suitable for framing, together with a 225-page catalog will be sent. Address Mr. A. B. Holbert, Greeley, Ia.

A Great Missouri Horse Sale.

The advertisement on page 48 announces that on April 11th and 12th Mr. James Houchin, proprietor of the Onward Wilkes Farm at Jefferson City, Mo., will hold a public sale of horses. The animals to be sold include high-grade saddle horses, speed horses and brood mares, as well as a few young jacks. The list of gentlemen who contribute to this sale is as follows: A. G. Danforth & Son, Washington, Ill.; E. T. Cox, Pearl, Mo.; C. H. Greenway, Jefferson City, Mo.; W. B. Taylor, Sedalia, Mo.; J. S. Harrison & Son, Auxvasse, Mo.; Edgar Britt, Auxvasse, Mo.; Thos. H. Lawrence, Auxvasse, Mo.; S. G. Wood, Auxvasse, Mo.; F. C. Holland, Auxvasse, Mo.; Walter Allee, California, Mo.; C. A. Golhofer, Lamonte, Mo.; C. P. Livingston, Bushnell, Ill.; Kemp Hironymous, Sedalia, Mo.; Fred Heister, Jefferson City, Mo.; W. B. Hale, Auxvasse, Mo.; R. B. Spurgeon, Olathe, Kan.; J. G. Callison, Windsor, Mo.; W. H. Mueller, Jefferson City, Mo.; Jno. N. McCue, Auxvasse, Mo.; E. L. Palmer, Fulton, Mo.; Geo. A. Carpenter, E. I. Bunceton, Mo.; Moore Bros., Bunceton, Mo.; Lee Carpenter, Sedalia, Mo.; W. E. Nicolson, Fulton, Mo.; Doug Turner, Jefferson City, Mo.; J. A. P. Garrett, Enon, Mo.; J. W. Giesecke, Jefferson City, Mo.; Homer Markham, Jefferson City, Mo.; E. L. Sheley, New Bloomfield, Mo.; Noel Todhunter, Higginsville, Mo.; Dr. J. E. Tucker, Higginsville, Mo.; W. O. Mullins, Junction City, Kan.; G. F. Hackley, Higginsville, Mo.; A. B. Mad-dox, Fulton, Mo.; L. A. Osborne, Sedalia, Mo.; F. H. Phillips, Jefferson City,

Mo.; S. W. Herring, Fulton, Mo. For catalog giving complete information write to Mr. John Houchin, Jefferson City, Mo.

Slocum Hereford Bulls.

Mr. Geo. R. Slocum, of Primghar, Iowa, still has for sale a few good young bulls. These range in age from fourteen to eighteen months. They are sons of Fulfiller 2d, he by the champion, Fulfiller. Their dams are imported cows. These young bulls are right in every way. They are the low-down, meaty, blocky kind, well marked with strong masculine heads and drooping horns. For prices or additional information write to Mr. Geo. R. Slocum, Primghar, Iowa.

The Kissel Kar.

The advertisement of the Kissel Kar will be found on page 44 of this paper. It is a thoroughly reliable car, having simplicity and capacity. It is not a cheap car, but one that is sold at a reasonable price and that has been built in a thoroughly reliable way. Its durability justifies the price which is asked for it. Aside from this, however, it has all the advantages of any other high-class car. It has met the hardest tests for hill climbing and endurance. For descriptions or the handsomely-illustrated and entertaining book and price list write to the Kissel Motor Kar Company, 146 Kissel Ave., Hartford, Wis.

Hereford Heifers for Sale.

Mr. E. O. Nervig, of Slater, Iowa, has on hand a number of excellent Hereford cows and heifers which, in order that they may be disposed of in a short time, he will sell at very low prices. These are well-bred cattle in ordinary farm condition and animals that will be profitable to any farmer. Two of these are three-year-old cows with calf at foot, strong in Hesiod blood. One is a three-year-old granddaughter of Kansas Lad and she has a February calf at foot. A good many of the younger things are by Brigadier 10th, he a grandson of Lamplighter and a bull whose blood lines on both sides are of the most popular sorts. He is also an animal of great scale and strong individual character. The cattle offered for sale by Mr. Nervig are those which cannot fail to make money for

cow owned by Messrs. T. K. Tomson & Sons. All the calves at foot will be by the bulls mentioned. This sale will be a splendid opportunity for both breeders and farmers to secure strictly good cattle. Further announcements will appear in these columns in later issues.

Increasing Profits From Stock Raising.

The above is the title of a booklet treating on the many phases of stock raising that is published by the International Drug Company, of Des Moines, Iowa, whose advertisement will be found on page 42. This company manufacture and sell Vitaline, a preparation which they use for the cure of fistula, poll evil, distemper, mange, grease heel, big head, big leg, etc. Read the advertisement and send a request for the book.

Some Choice Things in Dr. Logan's Hereford Sale.

To give you an idea of the class of cattle to be sold by Dr. Logan, April 16th, at Kansas City, we will enumerate just a few: Perfector, by Young Beau Brummel, out of Miss Hamil, by St. Grove 3d, a full brother of Miss Roseberry, exhibited but once and won third money, a wonderful bull and a sure winner in next year's two-year-old class. Dorothy Perkins, by the great bull, the senior yearling heifer in the champion young herd at Chicago in 1909, has never failed to draw a ribbon. She is well along in calf to Crown Prince. Ardis, by Young Beau Brummel, the junior yearling heifer in the champion herd in Chicago and a perfect specimen. She has always stood high in her class, never below third in any exhibition. She is bred to Crown Prince. That the breeder may not be bored with too much detail it may be truthfully said that the offering made by Dr. Logan is most unusual. Every animal is under three years old. Every heifer is bred, most of them to Crown Prince, the great son of Young Beau Brummel. Every bull of serviceable age is of the best possible breeding and good individuality. Every animal has been carefully selected for this sale and not a cull will be sold. St. Julian is a wonderful two-year-old bull by Young Beau Brummel, dam, Miss Roe, by old St. Grove. This bull is good enough for anybody's herd. Words will not do him justice. You must see him to appreciate him.

heartily glad to recommend your cream separator. It's just "the" machine. To all who wish to buy a separator I advise them to buy a No. 14 Galloway machine. See page 14.

Ninety-five Per Cent Seed Corn.

The Stoecker Seed Co. advertise seed corn on page 20. They guarantee 95 per cent to germinate or will take the corn back and refund your money. They only have 1,000 bushels and it is going fast, so if you need some Reid's Yellow Dent seed corn you better order at once, kindly mentioning this paper. Address Stoecker Seed Corn Co., Peoria, Ill.

A New Silo Idea.

The Minneapolis panel shrink-proof silo is advertised on page 16 of this paper. This silo is made on a principle absolutely different from any other. It is so built as to obviate and prevent the difficulties of the ordinarily constructed silo. This silo is made of good-tongued and grooved timber cut in short lengths and built up horizontally between the studding. This manner of construction prevents the ordinary swell and shrink which is the principal fault of the stave silo. Its advantages, however, are so many that we must refer our readers to a free book on silos and silage and economical feeding, for which address the Puffer-Hubbard Company, Station F, Minneapolis, Minn.

Dr. Hess and the Stock Raiser.

Only the more thoughtful stock raisers make the maximum profits of their business. These find that the closest observation is necessary and in this close observation they often come up against obstructions and difficulties which their limited experience does not enable them to get around. It is just such cases as this, to aid the expert as well as the inexperienced, that the Dr. Hess stock food is designed to help. Dr. Hess himself has had experience in the raising of cattle. This experience lead him to investigate and go into details more completely than the ordinary farmer is able to do. His investigations lead to his perfecting the Dr. Hess stock food to such a point that it stands as a corrective and an assistant to the ordinary foods. In his advertising matter he shows plainly that the preparation is not a food and that it would not make a pound of fat or milk by itself. Its advantage, however, is that, given in two spoonfuls to a dose in the grain ration of a fattening steer or milk cow, it will work an astonishing change in a short time. It has tonic properties which act powerfully on an animal's digestive apparatus. If the digestion of an animal be kept in proper condition, growth and development are assured, but it is a matter that needs close attention and the use of just such correctives as the Dr. Hess stock food, which is advertised on page 25 of this paper.

An Iceless Refrigerator.

In a very large proportion of farm homes no provision has been made for a supply of ice and, therefore, there is an urgent necessity for some means of accomplishing the same ends. It will be a matter of not a little surprise to a great many to learn that through the use of the Allwin iceless refrigerator, which is advertised on page 37, such articles as milk, butter, meat, vegetables and, in fact, all perishable things may be kept fresh and in ex-

NEXT WEEK'S SALE PROGRAM

Monday, April 11	{ Horses, Combination Sale, Jas. Houchin, Jefferson City, Mo.
Tuesday, April 12	{ Aberdeen Angus, W. W. Anderson and J. B. Robinson & Co., Maryville, Mo. Short-horns, Thomas & Ellison, Rushville, Ind. Horses, Combination Sale, Jas. Houchin, Jefferson City, Mo.
Wednesday, April 13	{ Herefords, Combination Sale, W. N. Rogers, Mgr., South Omaha, Neb.
Thursday, April 14	{ Herefords, Combination Sale, W. N. Rogers, Mgr., South Omaha, Neb.
Saturday, April 16	{ Herefords, Jas. E. Logan, Kansas City, Mo.

any buyer. Write him for further particulars, but remember that he is anxious to close them out as soon as possible. See advertisement on page 48.

The Hercules Stump Puller.

The Hercules stump puller has demonstrated its effectiveness under the most difficult conditions. It is an all-steel, triple-power stump puller and, therefore, as durable as a machine of the kind can be made. The manufacturers say that it is 60 per cent lighter than any iron puller and 400 per cent stronger. It can be used on rough or smooth land as a single, double or triple-power machine. It is guaranteed against breakage for three full years and sold on a thirty days' free trial. While the stump puller will pay for itself on any farm where stump pulling is required it is also a money-making proposition for those who want to make stump pulling a business. Proofs of this with testimonials, descriptions and a hundred other facts may be had by writing to the Hercules Manufacturing Company, 141 17th St., Centerville, Iowa.

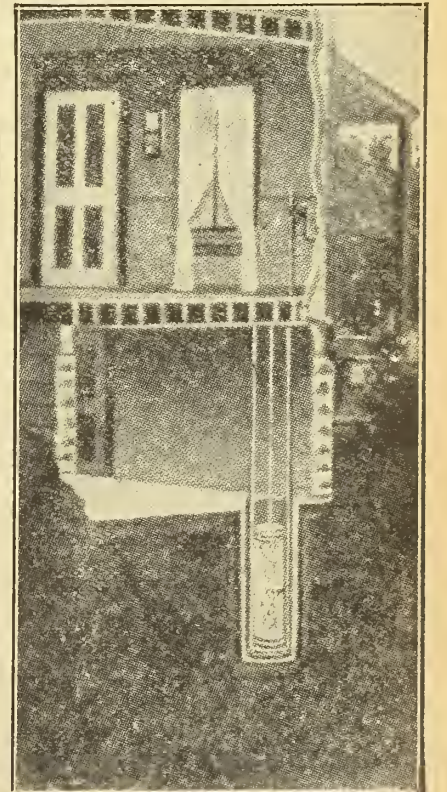
Avonhurst Short-horn Sale.

On June 2d, Messrs. J. G. Biller & Son, of Hartington, Neb., will make a draft sale of Short-horns from their herd. Forty-five head of cattle will be included in this sale. They are Scotch and Scotch-topped cattle. There are forty females and five bulls. Twelve of the cows will have calf at foot and, with the exception of a few young heifers, the others will be due to calve shortly after sale time. This herd has in service three herd bulls, Bold Archer 271597, The Callant 304330 and Archer 205740. Bold Archer is a son of Straight Archer and his dam was Mary Ramsden, the dam of Mary Meade that sold for \$1,460 at Judge Searle's dispersion sale. Bold Archer is but three years old and weighs something near 3,300 pounds. At the present time he is one of the best bulls of the Short-horn breed. He will be included in the sale. The Callant is by Avondale. He was first-prize junior calf at seven state fairs and at the American Royal, 1908. Archer is by Imp. Collynie. His dam was Circe 3d. Archer is the sire of the champion Nebraska State Fair

ate him. Prince George, another great son of Young Beau Brummel, is an individual of great merit, grand head and horn, magnificent quality. Among the bulls are many that need but a few months more of age to make them the equal of those above described. You cannot fail to find the bull you want in this offering. See page 53 for Dr. Logan's advertisement and address.

Is the Galloway Perfectly Satisfactory to You?

L. W. Clark, Estherville, Iowa.—Am well pleased with it. W. F. Bruske, Plainview, Minn.—I am more than pleased with the Galloway separator. Joe Mitera, Columbus, Neb.—I like my separator just fine. Henry Lohstroh, Westcliffe, Colo.—Will say that our No. 14 separator works all right, and think it is just the thing for farmers who milk about twenty or twenty-five cows. S. M. Carlson, Halsted, Minn.—We think it is just dandy. L. O. Walker, Bridger, Mont.—I can recommend the Galloway separator to anyone who has two or more cows. Wilson Scott, La Cygne, Kan.—I have showed my Galloway to my neighbors who have Sears & Roebuck's machines, and they say it is so much better than theirs. S. Stodgell, Mt. Auburn, Ill.—We have a No. 14 Galloway separator and like it fine. It does the work quickly and runs light. C. E. Bright, Ottawa, Kan.—I think my No. 14 Galloway separator is the best ever made. It leaves no trace of cream when skimming at 50 per cent. James Main, Hartford, S. D.—We are well pleased with the separator; it is convenient in every way and low in price. C. W. Hall, Hartington, Neb.—The No. 14 Galloway cream separator is the best all around separator that I ever tried. Anton Doffing, New Trier, Minn.—My No. 14 is more convenient than any separator I ever saw. A first-class skimmer and a light-running machine. F. M. Oliver, Winnebago, Minn.—The No. 14 cream separator I bought from you last June is pleasing us in every way. The self-oiling alone is worth one-half you ask for the separator. S. O. Solomonson, Scarville, Iowa.—I am more than pleased with the cream separator I bought of you last spring. Arthur M. Bump, Baraboo, Wis.—I am



cellent condition without the use of ice. The device is a very simple one, inexpensive and, in fact, a good deal more economical and certainly more sanitary than any ice refrigerator can be. The illustration which appears herewith shows just what the Allwin is and how it is operated. It is sold at very low prices and the buyer is given a thirty days' trial to satisfy himself as to its merits. We have before us 100 or more testimonials from those who have bought under these conditions and invariably they have remitted before the expiration of thirty days and expressed

themselves as highly satisfied in every particular. For descriptive book and price list write to the Iceless Refrigerator Company, 152 North Baird Ave., Chicago, Ill.

Cutler's Short-horn Sale.

On May 20th, at his farm near Corydon, Iowa, Mr. W. E. Cutler will sell forty-five head of well-bred Scotch and Scotch-topped Short-horns from his well-known Canna Hill herd. There will be twelve or fifteen head of Scotch cattle in the sale, together with his splendid Broadhooks bull, Champion Commodore. This bull is a son of the well-known Cookson herd bull, Champion Commodore, and is out of the noted cow, Imp. Scarlet Spangle. Here is one of the best-bred Broadhooks bulls that will be sold during the season, and the man who wants a herd bull should by all means attend this sale. There will be some excellent Scotch cattle in this sale, as well as a choice lot of the Scotch-topped sorts. There will also be a splendid lot of serviceable young bulls in the sale. Remember the date of the sale, as it will be one of the important sale offerings of the early spring season.

Thomas & Ellison Short-horn Sale—Last Call.

The dispersion sale of Short-horns to be held by Messrs. Thomas & Ellison, at Rushville, Ind., on April 12th, should interest anyone wanting to buy a few Scotch females or a Scotch bull. Every animal is of pure Scotch breeding and the entire herd are heavy milkers. A very noticeable thing in the herd is the uniformity of type. This shows the careful manner in which the blood lines have been handled. The cattle are a good, useful lot and among them are several show cows and heifers that should not be overlooked. This is a dispersion sale and everything sells. Cows that under other circumstances would not be priced will be sold for what the public see fit to pay. A number of the calves are by Homer Marshall, a son of the champion, Whitehall Marshall. A number of the cows are bred to this bull. This fact should mean much to intending purchasers. Homer Marshall sells in the sale and should go in some good herd. He is a smooth, blocky, roan bull and a tried sire. Make your arrangements to attend this sale. Send for catalog at once. The sale will be held at the farm near Homer, a short distance from Rushville. On page 51 we submit a sample of the breeding of the cattle to be sold. Kindly mention The Homestead when writing.

Sunset Herefords.

On Saturday, April 16th, in the fine stock pavilion at Kansas City, Mo., Dr. Jas. E. Logan, of Kansas City, Mo., makes a sale of sixty head of young Beau Brummel Herefords. About an equal number of bulls and heifers are listed and in this event the type Dr. Logan is breeding at his Sunset Farm will be exploited. Young Beau Brummel has fixed the type; it is the sort Dr. Logan set out to breed and we think those who like plenty of scale, all kinds of feeding quality, conformation, character and bone, will be pleased with Dr. Logan's Herefords. Every animal listed is of serviceable age. The females are all well along in calf and not an animal in the sale is over three years of age. There are among the bulls many of such character and quality that they should go to head good herds. They are bulls that will make good in the best shows and are so bred that they should impart the good qualities they have inherited through both sires and dams. The females are a fine lot of heifers, all the get of Young Beau Brummel and all bred to Crown Prince, a show bull that will hold the type, scale and quality. Dr. Logan does not offer any but those he is pleased to send out as the result of his efforts to produce good cattle. See page 53 for Dr. Logan's catalog and if you have not received a catalog, send for one, mentioning this paper.

Last Call Houchin's Great Saddle and Speed Horse Sale.

In the sale of saddle and speed horses to be held on April 11th and 12th, at Jefferson City, Mo., by Mr. Jas. Houchin, of Jefferson City, Mo., buyers will be given the opportunity of buying where they can look the horses over carefully before the sale. They will also be accorded the privilege of taking the horses out and have them worked privately and look them over carefully. This should appeal to the buyer, as in most speed horse sales the horse is never seen until led into the ring. There are nearly 100 head of horses to go in this sale. There are several speed horses in the sale that are ready to race, and there are some two and three-year-olds in this sale that are as good as are to be found any place in America. There are right at fifty head of saddle horses listed and they are probably the best fifty head ever gotten together for a sale. Twenty head come from Mr. Houchin's stables and every one is a strictly high-class horse. Ten head of these are good enough to go in the best show rings of the country. The contributions from other stables are good. Several horses that have been winners are listed. Special effort has been made to get well-broke horses so that buyers can come to the sale and buy horses ready to go under the saddle or in the harness. Mr. Houchin guarantees every one of his thirty head and any contributor who misrepresents any horse of his consignment will be barred from future sales. Mr. Houchin desires to build a sale market where all may come and buy with the satisfaction of knowing that they are getting stock that is just as represented. Mr. Houchin wants all who can to come. If you want a saddle or speed horse it will pay you well to make the

trip to see this great string of horses and get acquainted with the gentlemen who will be in attendance at the sale. See this page for Mr. Houchin's advertisement and arrange to attend the sale.

The Rosebud Country.

The F. W. Rathman Company, of Dallas, S. D., advertise on page 43 that they have for sale lands in the Rosebud country. The section referred to includes the counties of Gregory, Tripp, Mellette and Todd in South Dakota. It is located west of the Missouri river and adjoining the northern line of Nebraska. The soil is excellent black loam with a clay subsoil and well adapted to the production of corn, wheat, oats, barley, flax, alfalfa, timothy, clover, etc. For additional particulars concerning the great opportunities to secure farms in this Rosebud country write to the F. W. Rathman Co., Dallas, S. D.

More Carey Act Land.

It is not probable that any one undertaking in connection with the development and improvement of farm lands has accomplished so much for the benefit of the general public as the Carey act. It has made possible the use of lands which have been worthless for centuries and which, without its intervention, would have remained so. The Carey Act plan of providing means for irrigation has made this land of such value that it oftentimes cannot be purchased, after having been thoroughly improved, for \$1,000 per acre. The North Laramie Land Company have under irrigation a Carey Act project, an extensive acreage of Wyoming land. This land is being sold now at from \$37.50 to \$50 an acre. It is well located and has many advantages, as will be noted in the advertisement of the North Laramie Land Company on page 43 of this paper. The company wish prospective buyers to see this land and for this reason make regular excursions on the first and third Tuesdays of each month. The next excursion of special interest is that which starts on April 19th and reaches its destination for the drawing which takes place on April 22d. For booklet giving illustrations, descriptions, and, in fact, all desired information, write to the North Laramie Land Co., 1203 Marquette Bldg., Chicago, Ill.

Short-horn Cattle Bargains.

Our readers have probably noticed the announcement on page 49 that Mr. H. M. Barr, of Edgewood, Iowa, wishes to dispose of his entire herd of Short-horn cattle. The announcement referred to states facts, yet the real interesting ones connected with the cattle to be sold are so numerous that further reference is necessary. Mr. Barr began about ten years ago to gather up the foundation of a herd of pure Scotch cattle. He was exacting in his selections and has settled down on two splendid young heifers, Duchess of Gloster 36th, a daughter of Victorious Prince of Maine Valley, and Duchess of Gloster 37th, a daughter of Lord Prince of Maine Valley. Both these cows were selected as the choice of Davidson's herd. They fulfilled all expectations, became splendid breeders and producers of low-down, blocky, easy-fleshing cattle that must satisfy the most discriminating cattle man. Today the cattle to be sold are very largely the descendants of these two grand cows. There is one exception, however. This is a four-year-old roan cow, Gladys. She is a daughter of Imp. Golden Fame. Her dam was a Duchess of Gloster cow, Duchess Crown, she by Imp. Scotland's Crown, a bull made famous at the Iowa State College. This is a good, smooth, well-formed cow, excellent in her proportions with good symmetry and a good one from end to end. She is a good milker. She dropped a red cow calf last October by Grand Duke of Orange, a 2,260-pound Orange Blossom bull. This cow is a wonderfully attractive one from all points of view. She would grace any herd in the West and undoubtedly at the price quoted on her will be a rare bargain. A four-year-old cow, of scarcely less importance, is Sympathy, a red roan by Lord Prince of Maine Valley 142607. Her dam was Duchess of Gloster 36th, one of the foundation cows just referred to. She traces to Imp. Craven Knight so that her lineage is all that could be expected. She is bred to Royal Cecil 176726, a grandson of Imp. Spartan Hero. This bull is a big, long, well-formed fellow that has been a great individual, although now somewhat advanced in years. Sympathy is a thick, blocky, broad-backed cow, a good handler with a great coat of hair. A full sister a year older is Goldie, a solid red cow suckling a cow calf which is her second. She also is a good, well-formed, promising brood cow, right in every way and a good kind for any farmer to start with. Little Roan is a five-year-old roan cow by the Duthie-bred bull, Imp. Avalanche. Her dam is the dam of Sympathy, above referred to. This cow has had three calves, two of which are still on the farm and extra good ones. She is a splendid animal and without fault in any direction. In later issues we will go into some detail as to other individuals that are included in this offer. At present, however, it is only necessary to say that the entire lot would be creditable to any herd of Short-horns and some of them are sufficiently good to be looked after by even the best breeders in the land. Mr. Barr is selling these cattle solely because ill health has compelled him to rent his farm and has to give possession of same on the first of May. He, therefore, must act quickly and must dispose of the entire lot before the date mentioned. They will be sold in a bunch, singly or in any way to suit the buyer. They will be sold cheap. We believe that Short-horn buyers can well

ONWARD WILKES FARM

JEFFERSON CITY, MISSOURI.

THE HOME OF THE WINNERS

Combination Sale
OF HIGH-GRADE SADDLE HORSES,
SPEED HORSES, BROOD MARES,
AND A FEW YOUNG JACKS

April 11th and 12th

Ask for catalog. Consignment solicited.
Write us your wants. Also what you have to sell.
JAS. HOUCHIN, Proprietor. T. D. ANDERSON, Supt.



afford to act at once or see Mr. Barr and make a careful examination of these cattle. They will fulfil every promise made for them in these columns. Full particulars can be had by writing to Mr. H. M. Barr, Edgewood, Iowa.

Planning for the Potato Crop.

Any plan for raising a crop of potatoes which does not include the machinery necessary for proper care and handling is at fault. The Aspinwall Manufacturing Company make all sorts of potato-planting and harvesting machinery. They also make sprayers, without which no real first-class crop of potatoes can be grown. Any reader of this paper who wants detailed information on the subject of planters, sprayers or graders should secure a copy of the new catalog, for which address the Aspinwall Mfg. Co., 459 Sabin St., Jackson, Mich.

Saving Men and Horses.

It is a fact beyond contradiction that broad tires make lighter draft and thus effect a saving on the horse. Low wheels add to the convenience as well as ease the work done by man. Together, the broad tire and low wheel make a combination that are money savers and time savers and have other advantages to their credit. A low, broad-tired wagon does not mire in muddy roads, it pulls more easily over plowed ground and is more economical than a wagon of any other sort. The advertisement of the Electric Wheel Company will be found on page 2. A large, free catalog which gives the testimonials of hundreds of farmers who are now using electric wheels will be sent free of charge to every reader of this paper who writes for it to the Electric Wheel Company, Box 58, Quincy, Ill.

Last Call Andrews-Robinson & Co.'s Aberdeen Angus Sale.

In the Messrs. Andrews-Robinson & Co.'s sale of Aberdeen Angus to be held at Maryville, Mo., on Tuesday, April 12th, there will be sold more high-class Aberdeen Angus cattle than have ever before been offered in a sale in this section of the country. The cattle these gentlemen sell in this sale are high-class individuals and are, furthermore, as richly bred as they are found. The bull offering is unquestionably strong in individuals that are so well bred as to please the most severe critic of pedigrees. There are several of these of different ages and among the ten bulls it will be possible for buyers to find what they want. The forty head of females are the sort the more discriminating buyers like to select from and the fact that eighteen have calves at foot makes this section of the sale especially attractive, as the calves are by high-class sires and out of such cows as will add to any herd. The females of Mr. Andrews' consignment are bred to Earl Blackbird, a son of Earl Eric of Ballindalloch, said to be one of the greatest Erica bulls that has ever done service in this country. The calves by Earl Blackbird show him to be a great sire and capable of reproducing his kind. Five of Mr. Andrews' Blackbirds have calves at foot, several Prides, an Erica and three K. Prides have calves at foot and are rebred. Mr. Andrews sells a half dozen yearling heifers that will prove valuable things to add to good herds. Among his Ericas is Imp. Ettarre 132369, a March yearling that has great quality. The Messrs. Robinson and Chapple females have calves at foot or are bred to Even Eric by the same sire as Mr. Andrews' herd bull, and Black Woodlawn Prince, a son of Prince Ito and a full brother to Black Pedro, the bull these gentlemen lost. A dozen or more cows sell with calves at foot. These gentlemen contribute nine of their good Blackbirds, five of their best Trojan Ericas, a fine string of Queen Mothers and several fine Prides of Aberdeens. Among these is Imp. Pride of Aberdeen 164th with cow calf at foot by Woodlawn Blackbird Prince, two Blackbirds by the great Prince Ito and a whole string of good things by Black Pedro, the son of Prince Ito that these gentlemen lost. Black Monarch of Emerson, Blackward R. Ellock and Moonshiner are also well represented as sires of several choice cows. There is not an animal listed that these gentlemen are not pleased to send out as representative of the kind they are raising. They want you to come to the sale, come Monday if possible, look the cattle over and make such selec-

TOO LATE TO CLASSIFY.

HAMPSHIRE Swine

I WON champion on pen of Hampshire barrows; also champion on single barrow at the 1909 International Stock Show. 30 sows bred for March, April and May farrow, for sale. Also breeder of Short-horn and Double Standard Polled Durham cattle, Bourbon Red turkeys, Pekin ducks, and Barred P. Rock chickens. Write me. John Goodwine, Potomac, Illinois.



HEREFORD HEIFERS

A FINE lot of cows and heifers, sired by or bred to A. Brigadier 10th 217618 (a grandson of Lamplighter). All are of good lines of breeding, and of excellent individual merit. I have too many, and will sell some of them at bargain prices to reduce the number. You will buy if you see them.

E. O. Nervig, Slater, Iowa.

CLYDESDALES AND PERCHERONS—Imported and home-bred. A select lot of stallions and some extra choice mares. Prices right. Address R. O. MILLER, Route 1, LUCAS, IOWA.

tions as please you. The sale will be held in the sale pavilion in town. See page 52 for advertisement and for catalogs address either, mentioning this paper.

W. L. Addy at Nevada, Mo.

Mr. W. L. Addy, formerly of Parnell, Mo., writes from Nevada, Mo., his new location, that he is nicely located on a good farm near Nevada and that he has a few choice Durocs with which he will found another herd. Several last summer and fall gilts by W. L. A.'s Choice Goods and two or three mature sows, among which is a corking good Proud Advance sow, will soon put Mr. Addy back in the business. Mr. Addy writes that he likes his new location very much and will always be pleased to have as many old Duroc friends call as can do so.

A Good Nebraska Sale of Short-horns.

One of the important Short-horn sales that will be held in Nebraska this spring will be that of Mr. L. E. Berkeheimer, of Malvern, Iowa, and Mr. Geo. H. White, of Emerson, Iowa, the same to be held at Wayne, Neb., on April 30th. These well-known breeders will sell fifty head, among which will be some of the best bulls that have ever been sold in the state. There will be some strictly high-class herd bulls in this offering and some excellent females. Write either of the above parties at once for catalog and be sure that they get your name on their mailing list. Mention The Homestead when writing them.

The Universal Hoist.

The advertisement of the Universal hoist, on page 32 of this paper, presents a new idea in hay machinery. It is a machine designed to render assistance in getting hay in the barn or stack. Through its use a small portable gasoline engine may be made to take the place of an extra team and driver. The illustration in the advertisement shows just how it is operated. The hoist is furnished with or without trucks as the buyer may wish. It is sent on a thirty days' free trial. It looks very much as though this machine solved one more of the labor-saving problems connected with hay making. For catalog and price list write to Messrs. Victor Speer & Co., 26 State St., Cedar Falls, Iowa.

Farming in North Dakota.

During the past ten years North Dakota has attracted thousands of corn-belt farmers who have made big money growing dollar wheat and other small grain. In addition to the large profits from grain farming some farmers have realized as high as \$30 per acre in the increased value of their farms. Good land can now be purchased in western North Dakota from \$15 to \$25 per acre. It won't last long at these prices. Mr. O. A. Houge, of Williston, N. Dak., will be glad to send his list of improved farms and wild lands to any of our readers who are interested. Mr. Houge speaks the Scandinavian language. The farms he is offering for sale are in the vicinity of Williston, county seat, with 5,000 population, on the main line of the Great Northern railway. Write for his free booklet today. See advertisement on page 43.

75 BROOKMONT HEREFORDS

AT PUBLIC SALE AT

SIoux CITY, IOWA, TUESDAY, APRIL 19, '10



THIS consignment includes 30 bulls that range in age from ten months to two years, and 45 cows from fifteen months to four years. All females of sufficient age are due to calve early in the season. They are in good condition of flesh and thrifty form. They are in perfect health, have all been given the tuberculin test by government experts, and are guaranteed to be absolutely free from tuberculosis. In breeding they include the blood of our own great Imp. March On, Imp. Southington, Imp. Albany, Dale, Anxiety, Lord Wilton, etc. There can be none better than these. The sale will take place in the stock yards sale pavilion. Auctions---Cols. Woods, Reppert and Teaquist. For catalogs address

A. E. COOK. BROOKMONT FARM, ODEBOLT, IOWA.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago, Union Stock Yards, April 4. —There is no encouragement for holding back fat 1,550-pound and heavier beefs longer than is practicable. They should be marketed as fast as convenient. Warm weather is with us and, of course, the thermometer will climb to higher levels. Under these weather conditions buyers' fancies are always won over by the handy-weight cattle, and we shall hear the oft-repeated "too heavy."

Conditions are such that feeders will be warranted in replacing these heavy cattle with lighter weights. Those who contemplate following this plan and wish to feed for the July and August markets, it would be well for them to put in good quality, thrifty 900 to 950-pound cattle. But those who intend to feed cattle for the September, October and November markets should stock up with good quality 1,000-pound and heavier cattle. If these are gotten in good flesh condition they will not have to compete with the western rangers, which come so plentifully at that time of the season. The only exception to this case is the putting in of very choice yearling and two-year-old cattle. If these are made fat they will also escape the above mentioned competition.

The break in the cattle market the past two weeks was not unexpected. Prices have made such a steady and big advance during the past two months, amounting to \$2.00 to \$2.50 per hundredweight, that the consumers of meat were unable to adjust themselves to the remarkably high prices. However, Clay, Robinson & Co. look for a broader outlet for beef just as soon as the people get used to the increased cost of same. The future outlook is all right. But remember that present and prospective conditions warrant the marketing of fat heavy beefs.

MARKET MATURED HOGS.

Clay, Robinson & Co. advise marketing hogs that are in good fat, salable condition, weighing 235 pounds and upwards. There is nothing bearish in the situation but the price, nothing to discourage faith in the future market beyond the fact that present prices are highest on record, considering the purchasing power of the circulating medium of the country. It is, therefore, not reasonable to expect such rates to prevail for an indefinite time. It is, however, apparent of late that consumption of pork products is abnormally modest. Previous week limited inquiry was not unexpected under the circumstances, as call for fresh meats is always curtailed during Holy Week. Shipping inquiry lately, however, af-

fords little evidence of enlarged volume, all packers reporting small cash trade and light flesh meat demand. This condition is evidenced by their limited purchases of hogs. Warm weather is, perhaps, responsible to some extent for lighter inquiry for fresh pork. Eggs are cheaper now than meat and the vegetable season is at hand, supplies from southern fields now being offered at reasonable prices. Weather and other farm conditions are responsible for a season of great activity with swine producers. This situation will result in some accumulation of hogs in the country and enlarged receipts, temporarily at least, a little later on. Not a single condition can be cited to warrant the marketing of pigs, shoats and immature hogs, for at present corn prices the hog market could decline \$2.00 per hundredweight and still leave the feeder a good margin of profit. A decline of \$2.00 per hundredweight, while possible, is not at all probable for months. Yet it is always wise to make sure of a good thing and, therefore, we advise selling hogs of good marketable condition.

SHARP DECLINE IN CATTLE.

There was a sharp price loss for cattle last week and demand from both local dressed beef men and eastern shippers was of reduced proportions. Beef steer prices fell 25 to 40 cents from the close of the previous week. Top beefes for the week went at \$8.75 and bulk of sales were at \$6.90 to \$8.10. Cows and heifers sold 35 to 60 cents under high point of the previous week. Most beef grades brought \$4.65 to \$6.00. Canners and cutters went largely at \$3.10 to \$3.75. Bulk bulls \$4.75 to \$5.65. Stockers and feeders lost 40 to 65 cents from the recent high point. Sales were largely at \$5.50 to \$6.00 for feeders and \$4.75 to \$5.25 for stockers. Veal calves largely at \$8.50 to \$9.25.

BUYERS LOWER HOG PRICES.

The trend of the hog market last week was downward. Bearishness of local packers and slow eastern shipping demand proved too much for the selling interests. Low point of the week was Thursday, when top was \$10.95 and bulk sales at \$10.70 to \$10.90, while the high point was Monday, when the top was \$11.20 and bulk of sales were at \$10.90 to \$11.10, highest prices on record since the civil war.

SHEEP SELL SHARPLY LOWER.

Buyers dominated the sheep and lamb trade last week and sellers were forced to do sums in subtraction to the amount of 50 to 60 cents from the close of the previous week. A dull dressed meat market and increased arrivals were the bad combination. Top lambs for the week \$10.35 and bulk at \$9.25 to \$10.10. Most of the yearlings brought \$8.50 to \$9.00. Summit on sheep \$9.10, with sales largely at \$7.75 to \$8.50.

Scotch SHORT-HORNS

FOR SALE AT
EDGEWOOD, IA., BEFORE MAY 1

Ill health compels me to part with my herd of Short-horn cattle within the next thirty days. They are mostly straight Scotch

DUGHESS OF GLOSTER COWS

Good ones, of choicest breeding, that have been reserved because of their quality, scale and true Short-horn type. You cannot appreciate how low my prices are until you come and see them. But come quick. :- :- :- :-

H. M. BARR, EDGEWOOD, IA.

TOO LATE TO CLASSIFY.

Percheron, Belgian and Shire STALLIONS AND MARES

WE are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old and third Belgian mare three years old.



PETER HOPLEY & SON - LEWIS, IOWA.

CLYDESDALE STALLIONS Duroc Jersey Bred Sows

FOR SALE from 1 to 3 years old. Also some Clydesdale mares. Prices reasonable, easy terms. **J. C. SAVAGE - FORT DODGE, IOWA.** **W**E are offering a choice lot of bred sows and gilts for sale, bred for April and May farrow. Address **VON SEGGERN BROS., WISNER, NEB.**

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EIGHTEEN years' experience. Write me for dates. Copies of my live stock poems free when stamp is enclosed. Am booking fall, winter and spring dates.

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YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

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When writing to advertisers please mention this paper.

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Fifteen years' experience selling live stock.

Write for Terms and Dates.

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North English, Iowa.

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SALES made anywhere. Reasonable terms. Have pleased others; can please you.

Write for Dates.

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Live Stock Auctioneer

SALES made anywhere. Reasonable terms. I also breed Poland Chinas and Short-horns.

LIVE STOCK ARTISTS.**A. V. LOCK, REMINGTON, INDIANA. Live Stock Artist. Write me.****BERKSHIRE SWINE.**

Now is the Time to buy pig flesh from Spring litters—

BERKSHIRES

All pure Berks from Morgan Farm. Morgan Hogs win laurels everywhere. We are now ready to book orders for Pigs from Spring farrowings, to be shipped when weaned. We also have a few very fine pigs from last Fall litters still unsold. Be sure and write before buying.

MORGAN FARM
Beloit, Wisconsin

POLAND CHINA SWINE.**Mastodon and Giantess Polands**

TRUE type of these great type Poland Chinas from the most prominent and popular herds of the breed. Sows selected from the breeding of John Blain, Fred L. Rood, W. W. Wheeler, John Matter, H. Dorr, J. O. James, Peter Mouw, Cox & Hollinsake and others. For sale—1 will book orders for pigs at weaning time at reasonable prices for the high quality and famous big-type breeding. Come or write and I will price them right to you.

ROY E. STIDUM, R. 5, CARTHAGE, ILL.

FALL BOARS FOR SALE

I am now offering some splendid fall boars for sale sired by my noted show and breeding boar Big Victor and out of my best sows. Address, **D. C. LONERGAN, Florence, Nebraska.**

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POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hinton. **HELD BROS., HINTON, IOWA.**

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Scotch SHORT-HORNS

AT THE FARM NEAR RUSHVILLE, INDIANA, APRIL 12, 1910.

HOMER MARSHALL 320394. Red, some white. Calved March 7, 1907. Bred by Frank W. Harding. DAM SIRE BREEDER

Got by Whitehall Marshall 209776. E. S. Keley Secret of Anoka..... Imp. Golden Banner 213028. W. S. Marr Serepta 2d Knight of Orleans 98991. Luther Adams Serepta 3d Ambassador 95946. A. Cruickshank Serepta Golden Drop Hillhurst 39120. W. Simms Imp. Sorrel Roan Gauntlet 35276. A. Cruickshank

GOLDIE 3D 63407. Red; calved March 19, 1909. Bred by Thomas & Ellison.

Got by Homer Marshall 320394. F. W. Harding Lustre of Anoka 2d..... Imp. Golden Banner 213028. W. S. Marr Imp. Chief Lustre 21st..... Village Archer 149077. Wm. Duthie Chief Lustre 13th..... Scotland Glory 215006. Wm. Duthie

VICTORIA BLOSSOM 2D. Red; calved June 24, 1904. Bred by 1. Barr & Son.

Got by Imp. Prince Oderic 136398. W. S. Marr Victoria Blossom Sir Charming 2d 132972. C. Norton Victoria of Meadow Ridge..... Imp. Ducal Crown 97149. A. Cruickshank Victoria Rose Imp. Julius (48073). A. Cruickshank Imp. Victoria 71st..... Roan Gauntlet (35284). A. Cruickshank

VARIETY GROVE BUCHAN. Red; calved September 28, 1902. Bred by Frank W. Harding.

Got by Imp. Best of Archers 142832. Wm. Duthie Royal Buchan Roan Prince (54923). S. Campbell Buchan Lassie's Gem..... Roan Prince (54923). S. Campbell Buchan Lassie of Glenmore..... D. of Guelders (47740). A. Cruickshank Buchan Lassie 4th..... Statesman 1st (44996). S. Campbell Imp. Buchan Lassie 2d..... Sir Christopher (22896). R. Booth

VARIETY GROVE PRIDE 2D. Red; calved August 23, 1905. Bred by Geo. W. Thomas, Rushville, Ind.

Got by Proud Star 2d 202864. I. M. Forbes Pride of Gloster..... Blake 126697. John Davidson Gaiety Prince Albert 100060. Alexander Brockie Canadian Duchess of Gloster 14th Prince of Springfield 40438. Col. Taylor Canadian Duchess of Gloster 3d. Imp. Sir Arthur 31135. S. Campbell Canadian Duchess of Gloster..... Red Duke 24525. John Miller Imp. 12th Duchess of Gloster.... Champ. of Engl'd (17526). A. Cruickshank

J. W. Gartin & Son contribute 12 head of Scotch and Scotch-topped cattle. Above we give sample of the breeding of the entire offering. Write for catalog, mentioning The Homestead.

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Cols. Geo. P. Bellows and Fred Reppert, Auctioneers.

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LAKE MILLS, WISCONSIN

100 HEAD to select from, bred from the leading strains. Parties wanting bulls or females to improve their herds, write us, we can supply you. High-grades in car lots picked up on short notice.

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Wilcox & Stubbs Co., Des Moines, Iowa.

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18---HAVE CALVES AT FOOT---18
16 Blackbirds, 9 Ericas, 3 K
Prides, 9 Prides, 8 Queen
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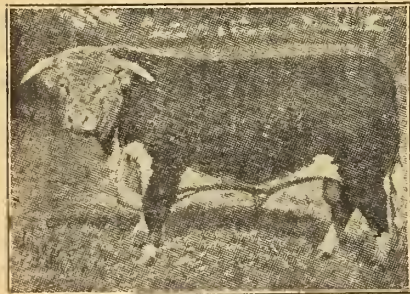
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25 HEAD 15 cows, and heifers--10 Bulls. There will be a splendid lot of young bulls in the sale, sired by *Crowning Goods*, a son of Good Choice. Write me at once for catalog.
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6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address
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Breeder of High-Class Short-horns.
HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address
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I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

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20 Short-horn bulls for sale, of serviceable age; all good colors and choice breeding, and well grown. Prices right. Lee & Prentiss, Vermillion, S. D.

Six Short-horn Bulls for Sale

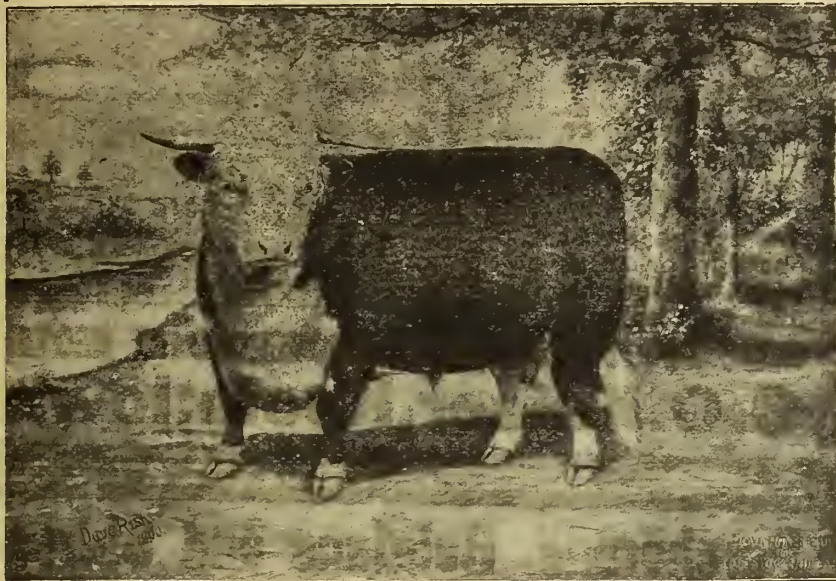
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ROGERS, CURTICE AND OTHERS 90 High-Class Herefords

AT AUCTION IN THE SOUTH OMAHA SALE PAVILION,
APRIL 13-14, 1910. 48 BULLS—42 COWS
From the Following Great Herds:

W. N. Rogers, McCook, Neb. W. H. Curtice, Eminence, Ky.
H. N. Thompson, Woodstock, Ill. T. A. Reece, Savannah, Mo.
Ben Broughton, Lake View, Iowa. H. A. Rogers, McCook, Neb.
AND OTHERS.



There are fifty Beau Donalds in this sale, sired by Beau Donald, or sons of Beau Donald. There are also seven bulls, grandsons of the famous March On. There will be Show Bulls and Herd Headers, Show Cows and good, useful producers. Cattle for the founding of new herds, and improving those already established. There will also be sold at the same time a splendid Polled Durham herd bull and a young Short-horn bull of great promise from the herd of Mr. Merritt, Dunlap, Iowa. Callahan, Zaun and others, auctioneers. Catalog with full details is now ready and may be had by addressing

W. N. Rogers, Mgr., McCook, Nebraska.

The great Hereford breeding establishment, Shadeland Park Farm, is also offered at private sale by the owner, W. N. Rogers. This great farm comprises 828 acres of choice land, 400 of which are alfalfa land.

SHORT-HORN CATTLE.

CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 23556 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and bred to Narcissus King, singly or by carload. You will buy if you see them.

R. J. COX

GRINNELL, IOWA

35 SCOTCH SHORT-HORN BULLS

FOR SALE—From one to two years old, of the blocky, beefy type; herd headers also. 25 helpers bred for spring calving, of the most popular Scotch families. Catalog of bulls. Address

I. BARR & SON, DAVENPORT, IOWA.

Three Pure Scotch Bulls FOR SALE

FOURTEEN to 18 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight.

T. A. DAVENPORT, BELMOND, IOWA.

REGISTERED BULLS WANTED

We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd headers. Write us immediately. Address

Dragonier & Son, South Omaha, Neb.

Good Scotch Bulls for Sale

I AM offering a splendid lot of young Scotch bulls for sale, sired by American Goods, a son of Imp. Choice Goods and Baron Kear 3d. Strictly all right and prices reasonable.

W. H. McLAUGHLIN, SHELBY, IOWA

SHORT-HORN BULLS FOR SALE

AN extra 14-months' Scotch (Secret) calf by Lavender Fitz, out of a heavy milker. A husky, 21-months' red fellow by the same sire.

J. R. Ballard, Route 2, Ames, Iowa.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

When writing to advertisers please mention this paper.

S. H. THOMPSON'S SONS IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.



The "STAY THERE"

Aluminum Ear Markers are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address

WILCOX & HARVEY MFG. CO., Dept. A, 325 Dearborn St., Chicago, Ill.

Wildwood Scotch and Scotch-Topped SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Brawith Lad. For description and prices, address

W. W. VAUGHN - MARION, IOWA.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. "The International" winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big type Poland Chinas. Write your wants.

W. J. HATHER, ORD, NEBRASKA.

Two Fine Yearling Scotch-Topped Short-horn Bulls

ONE Polled Durham; all reds; good individuals. Several fall calves, reds and roans. Large smooth type of Poland China and Duroc sows and boars for sale at live-and-let-live prices.

R. M. Young, Cook, Johnson Co., Nebraska.

BATES BULLS

SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

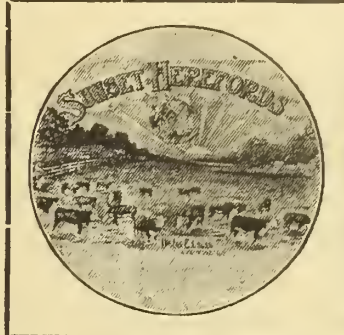
34 EXTRAORDINARY 26 BULLS Hereford Sale Live Stock Pavilion, HEIFERS

Kansas City, Mo., Saturday, April 16, '10

Am selling 60 head of extra good cattle. All bred by me and practically all sired by Young Beau Brummel.

Everybody knows about Young Beau Brummel.

Not an animal over 3 years old.



I cannot give you the details of this offering and do them justice.

Come and see my cattle.

Every one tested for tuberculosis at my expense.

Send for catalog.

26
HEIFERS

JAS. E. LOGAN

1208 Wyandotte St., Kansas City, Mo.

Auctioneers—Cols. Edmonson, Sparks and White

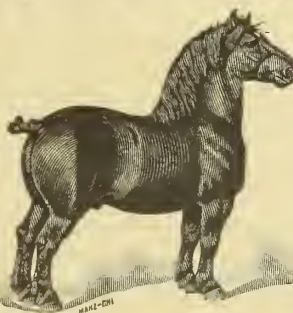
34
BULLS

HORSES AND JACKS.

NOW IS YOUR OPPORTUNITY

TO OBTAIN A FIRST-CLASS, IMPORTED

PERCHERON, ENGLISH SHIRE OR BELGIAN STALLION



At prices never before duplicated by any importing establishment in the United States, breeding and quality considered. 60 head on hand to select from, including a new importation just received March 10th. We give you a straight 60% breeding warranty without any ifs or ands attached to same. Visit our establishment, inspect our stallions, and we feel assured you will purchase one of our horses. If you have not received our new catalog, drop us a line for one. It is free for the asking. Our office is located in the Lincoln Hotel Building.

Watson, Woods Bros. & Kelly Co., Lincoln, Neb.

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.



perience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.

PERCHERON MARES

BELGIAN MARES

Imported and home-bred, safe in foal. Also fillies and stallion colts. Good animals, in ordinary condition and at reasonable prices.

C. G. GOOD, Ogden, Iowa.



FAIRVIEW JACK AND JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri Jacks—the best that grow—14½ to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop., EOLIA, MO. Pike Co.

Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales.

L. A. MATERN, - WESLEY, IOWA.

Percheron Stallions

Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. Will F. Hooker, Northboro, Page Co., Ia.

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

JOHN MORAN

NEVADA, IOWA.

IMPORTER AND BREEDER OF

PERCHERON Stallions and Mares

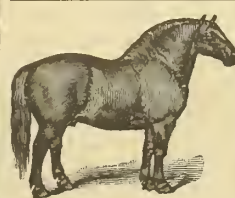
At the present time I am offering twelve head of grand imported mares and three imported stallions at prices that will look attractive to buyers. If you are intending to buy come and see these stallions and mares. The mares are from yearlings up to four years of age, both blacks and grays, and matched pairs can be selected. For good goods at the right kind of prices I can satisfy your wants. Come and see me.

Percherons and Belgians

THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY."

Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.

W. J. BUTLER, OTTAWA, ILLINOIS. Long Distance Phone.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Fench and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

FRANK L. STREAM, Creston, Iowa.

Clydesdale Headquarters

McLAY BROS., JAMESVILLE, WIS.

NEW IMPORTATION—18 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine international than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLAY Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. ½ ton type; Poland China sows. J. J. BURRIER, Cedar, Iowa.

HORSES AND JACKS.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

Stallions and Mares

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.



HENRY LEFEBURE, FAIRFAX, IOWA.



GEO. W. SOUERS & SONS, HUNTINGTON, IND. IMPORTERS OF PERCHERON AND BELGIAN ...HORSES...

If you want to see the best bunch of Belgian stallions to be found anywhere in the West, come to our Sioux City branch barn. Our guarantee is iron clad and there is no importer in the United States who can beat our terms and prices. A visit will convince you. Write for our 1910 catalog. Barns at the Sioux City Stock Yards.

Herbert E. Bray, Manager, Sioux City, Iowa

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST OF THE HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.

MAMMOTH JACKS

WE make a specialty of fine young jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON,
BATAVIA, IOWA.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.



HORSES

PERCHERONS,
Belgians, German Coachers
AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rinn (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.

BELGIAN Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

HORSES.

PERCHERONS

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares.

We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA.
C. O. Keiser, Keota, Iowa

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C., B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

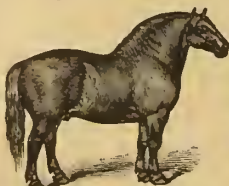
Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

Imported Percherons, Shires, French Coachers
STALLIONS AND MARES

\$1,000 IS THE PRICE ON STALLIONS FOR NEXT THIRTY DAYS \$1,000

Mares bred to the Champion, CARNOT 66666. Come and see them.

S. J. MILLER, KIRKSVILLE, MISSOURI.

Percherons and Belgians

I AM a native of Flanders, Belgium; import these horses direct from my own country, and can save 20 per cent on the first cost of Royal Belgian and Percheron stallions and mares. I have on hand at all times a number of horses ranging in age from 2 to 6 years—late importations and prize winners. Don't fail to see me before you buy.

A. M. VAN STEENBERGE, OGDEN, IOWA.

Percheron Stallions and Mares

SHIRE, Clyde and French Draft stallions. Standard-bred stallions and mares. Registered Draft mares. (Decatur County).

E. P. Hamilton & Sons, Garden Grove, Ia.

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. Ben Bohlander, R. 2, El Paso, Ill.

Stallions and Mares
...For Sale...

THE Iowa State College is offering for sale two choice Clydesdale stallions, coming two years old; one Clydesdale mare, five years old, and one imported Shire stallion, five years old. Address

DEPARTMENT OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address GEORGE W. BILBO, CRESTON, IOWA.

Pony for Sale Spotted Shetland, 4 years old; in foal; safe for children. Address LOCK BOX 61 - EARLVILLE, IOWA.

HORSES.

TRUMANS' SHIRE MARE AUCTION

WE WILL SELL AT PUBLIC AUCTION ON THE
PIONEER STUD FARM, BUSHNELL, ILLINOIS, WEDNESDAY, APRIL 20, 1910
(RAIN OR SHINE)

40≡IMPORTED SHIRE MARES≡40

OWING to the many inquiries for imported Shire mares, we have concluded to offer this consignment direct from the **London Shire Horse Show**, and from some of the leading breeders of England. That veteran Shire horse judge, J. H. Truman, has purchased them regardless of cost, being **determined** to present to the **American public** as heretofore the **best possible to procure in England**. Remember, at our sales **you buy them at your own price**. Be sure and arrange to attend this great sale of mares. We have upwards of **100 Shire, Percheron, Belgian and Hackney stallions** for private sale.

Write for catalog and other information. Mention this paper.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

**W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM,
CEDAR RAPIDS, IOWA.**

Special Announcement of Our Second Annual 30-Day Sale

STALLIONS and MARES

AMERICAN-BRED Percheron mares from \$350 to \$600; imported Percheron mares from \$600 to \$700, ages from 2 to 4 years, weighing from 1,700 to 2,000 pounds. All registered in P. S. of America. We have some extra good imported Shire mares with size, bone and quality—International winners—at very low prices. The above mares are guaranteed sound and satisfactory brood mares, most of them being heavy in foal. A choice selection of American-bred Percheron stallions, 2 and 3 years old, from \$500 to \$800. Our imported Percheron, Belgian and Shire stallions are the large, ton, draft kind, with plenty of bone and quality. All of them will be priced so as to move them quickly. All stallions guaranteed sound and 60 per cent breeders. We are making these extremely low prices for the next thirty days to make room for our new importation of 60 head of Percheron stallions and mares that will land here April 20th. Therefore, if you want a real bargain in a first-class animal of either sex come at once and get your choice. Our motto:—honest treatment, square dealings, best terms and best guarantee. Write our Home Banks for reference. Homewood is on the main line of Big Four and I. C. railroads, 23 miles south of Chicago; Suburban trains hourly; Bell phone, Homewood 204.

S. METZ & SONS, Homewood, Ill., or Abilene, Kan.

REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
GRAND ISLAND - - NEBRASKA.**

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.
ARLINGTON, NEB.,

New Importation of **Percheron, Shire and Belgian Stallions**

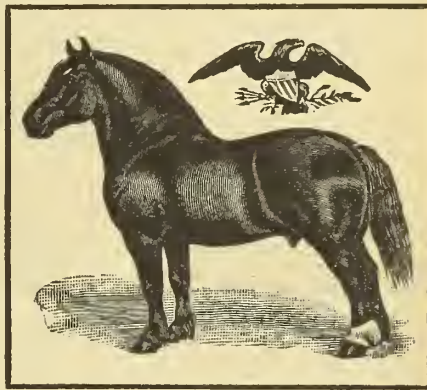
EXTRA weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. **PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.**

When Writing to Advertisers Please Mention This Paper

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

**Percherons,
Belgians,
Shires,
German and French
Coachers,
Hackneys.**



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

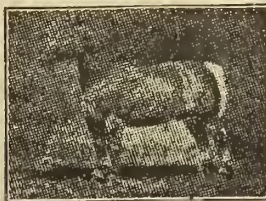
We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

A. B. HOLBERT, Greeley, Ia.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



PERCHERONS AND PERCHERONS ONLY

ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of **Percheron stallions** this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see **OUR Percherons** before buying. Telephone service. Their 1909 importation arrived November 18th. **Ernest L. Humbert & Son, Corning, Ia.**

When Writing to Advertisers Please Mention This Paper

FRANK IAMS' REDUCED PRICES

on his Imported "1909 Show Stallions" and horses bought for "1910 Show Stallions and Business Stallions." Prices on all Iams' Imported Show and Business Stallions reduced \$200 to \$500 each and his "new suit" of "selling clothes" will sure fit all buyers. Iams sells SHOW horses at same price as others sell "culls" and they "hypnotize" "carloads" of "Ikey Stallion Buyers" and make them "sit up and take notice" and buy imported horses of Iams. His big "black boys" are "ripe peaches" and all must be sold. Get into "Iams' Money-Saving game." Buy stallions today. Get stallions ready for "spring business." Ikey Boy, be the "early bird;" they get the business and choice of Iams' "Black boys" and "Top notchers." "Leave your happy home," visit the "peaches and cream" stallion man, and SAVE \$1,000. Every day is a "bargain day," a "horse show day," and a day of "profit and pleasure" at Frank Iams' "STALLION EMPORIUM," the largest in the United States at St. Paul, Neb. You will positively see here more Imported stallions—"Top notchers," "medal winners," "ribbon grabbers" and every-day "business" horses than at any "horse plant" in the United States and double all others in Nebraska. Iams backs up his "ads" and catalog with a "\$500 bonus" (no others do this). He gives five of the best banks in Nebraska for reference.

IAMS' 80 KINGS AND QUEENS OF PERCHERONS AND BELGIANS

are all "top notchers." No International "tail-ends," no "auction stuff," no "pick-ups" or "peddlers'" horses, but the best bunch of big-boned, big drafters of quality and finish in the United States, and in the "pink of condition."

Iams is a "big fly in the ointment" in the "horse business." He "sets the pace" for all competitors. "Ikey Boy," buy an imported stallion of Iams, the horseman "who does things." Get into Iams' Band Wagon; don't be "side-tracked" by "Hammer knockers." Ikey Boy, "waltz me around once again" and land me at IAMS' "four importing barns and box office" filled to the roof with big "black boys" at bargain prices. Iams is the only horseman who really has "the goods" as advertised. Mr. Stallion Buyer, "come on down town."

Iams' New Barn of 40 Gold Medal Winning Percheron and Belgian Stallions

is opened up for sale (not seen before). All of Iams' 1909 "Gold Medal Prize Winners" and first-prize Stallions at Paris and Brussels and leading European Horse Shows, and also 40 "Top notchers" bought for 1910 "Horse Shows" in the United States. They are all in his barns and for sale at reduced prices of \$200 to \$500 each—all in the "pink of condition" and fully acclimated. Iams has positively all his largest and best horses in his barns yet. Son Ikey. All the World knows Iams. He has a "money-saving" feeling for horse buyers. He sold 60 imported stallions and mares to "Iowa Boys" in 1909 and 150 "Top notchers" to the Boys with brains in other states. Iams sells \$4,000

IMPORTED STALLIONS AT \$1,000 AND \$1,400

(some higher). Iams sells the "wide-as-a-wagon" kind that don't need to be "peddled" or put on the "auction block" to catch "suckers." Iams is a horseman in a class by himself; he is selling more horses yearly. Ikey Boy, "don't be a lobster;" be "the wise guy after all." Try Iams, the "peaches and cream" stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a "warm spot" in his heart for all stallion buyers.

IAMS SAVED \$300,000 TO STALLION BUYERS IN 1909

by selling stallions direct to the people, saving all the "middleman's profits." Iams is an expert horseman. He knows the "Top notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin' and a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 and \$4,000. Son Ikey! Form your own "stallion company." Visit Iams' town of barns filled to the roof with big "black boys," the "best ever"—"Iams' kind." His 80 stallions, two to six years old, weight 1,700 to 2,500 lbs., 90 per cent blacks, 50 per cent ton horses, are a horse show better than the International.

IAMS' 1910 HORSE CATALOG IS AN 'EYE OPENER'

"a bunch of gold," the "book of books" to stallion buyers. It is full of truths, facts, "business propositions" and 115 illustrations of the best and largest imported stallions and mares in the United States, "true to life," the "wide-as-a-wagon" drafters—the real "peaches and cream" stallions. It shows the "tricks" of "stallion peddlers" and "auction block" salesmen. It is the finest, most elaborate and original up-to-date book in the world. Iams' 28 years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on honor. A boy or lady can buy as cheap as a man and get a better horse of Iams, the "square-deal" horseman. If you visit him and don't find every statement in his advertisement or catalog as represented, you can get the \$500 that he hangs up. IAMS guarantees to sell you a Better Imported Stallion at \$1,000 to \$1,400 (few higher) than are being sold to farmers' stock companies at \$2,500 and \$4,000; with 60 per cent breeding guarantee, with freight and fare paid by IAMS.

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(not seen by the public before) now on sale. He sells stallions by "Hot Advertising" and having "the goods" to make every statement good. Iams sells stallions so good that they do not need a "slick" peddler or the "auction block" to sell them. Special prices made at Iams' barns only. Iams will save you \$1,000 in commissions and "middlemen's profits." "Papa, dear," buy me an imported stallion of Iams. He will make me \$1,000 in six months and be good for twenty years. Iams has the kind that lay these "golden eggs." Don't let one of these "auction men" "hand you a lemon" with one of these so-called American full bloods with questionable breeding.

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on all his "Show horses" (40) and "business" horses (40) for sixty days. Write for Iams' Million-Dollar Horse Catalog. Iams' guarantee is backed by a "half million dollars." References: Omaha National Bank and First National Bank, Omaha, Neb.; St. Paul State Bank and First State Bank, St. Paul, Neb.

ST. PAUL, NEBRASKA.





VOL. LV. NO. 15

DES MOINES, IOWA, APRIL 14, 1910

WHOLE NO. 2740



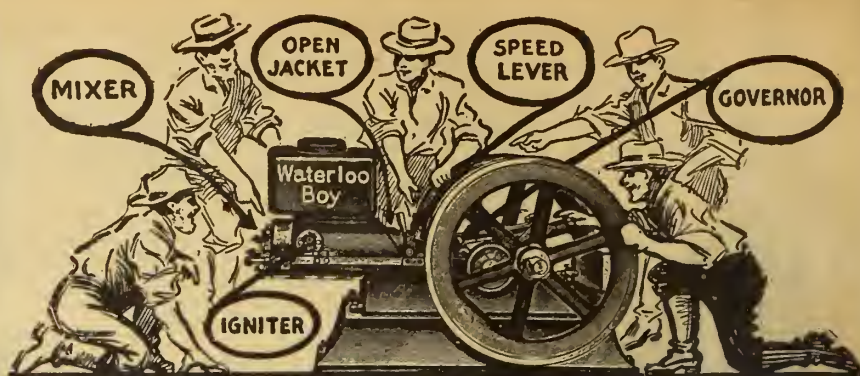


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Galvanized Barbed Wire, 4 point, put up on reels, per 100 lbs., \$2.00; Painted Barbed Wire, 4 point, \$1.75 per 100 lbs.; 2 point, \$1.85 per 100 lbs. Our special galvanized high-grade, light weight Barbed Wire, 50 rod spools, per spool, \$1.85. Painted Twisted Wire, per reel, \$1.75. At \$1.50 per 100 lbs. we will supply you new Galvanized Wire Shorts. They are put up 100 lbs to the bundle. By shorts we mean wire in lengths from 50 to 200 feet. Good for all general purposes. Comes in ranges from 9 to 15. Telephone Wire No. 12, \$2.85 per 100 lbs. No. 14, \$3.10 per 100 lbs.

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These Nails were on board a barge sunk in the Ohio River and are now more or less rusty. They are practical for use and make a fine handy assortment. Put up mixed, just as they come, 100 lbs. to the keg. Sizes from 3 to 40 D. First-class bright, clean new Nails, 20 D common, per keg, \$2.20. Builders, Dealers, etc., should take advantage of this opportunity to buy nails so cheap.

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If she doesn't, you should have no riding plow, manure spreader, or other modern convenience now regarded as a necessity on the farm. You ought to be ashamed of yourself. Go today and buy her an

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With REVERSIBLE WRINGER

This machine is not a hand-power washer with certain attachments added to transform it into a power washer. None of the machinery is fastened to the bottom of the tub, to be drawn out of alignment by warping. The driving belt is on the left side, entirely out of the way. It can be driven by one of the small gasoline engines now so common on the up-to-date farm.

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GABEL'S WONDER PIG FORCEP...Never since Christopher Columbus discovered America has there been a pig forcep offered on a 30-day free trial. Write for our 30-day free trial offer. Agents wanted. Gabel Mfg. Co., Hawkeye, Iowa.

Being sure all little details are perfect makes Kratzer Carriages best on the market

Before you buy any kind of carriage we want you to do this:

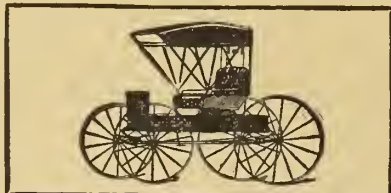
Go to the dealer who sells Kratzer carriages in your district and ask him to let you examine some of our vehicles.

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First look at the upholstery—that is all wool cloth of the heaviest weight, or leather of the best quality, selected to give the longest service.

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When Writing to Advertisers Please Mention This Paper

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, APRIL 14, 1910.

VALUE OF FARM MANURE

IT IS one thing to say that farm manure has a value, but quite another thing to say what that value is or to what it is due. The positive or intrinsic value of farm manure lies in the amounts of valuable plant food which it contains. It also possesses an important indirect value as a soil stimulant, due to its power as it ferments and decays, in contact with the soil, to liberate from the soil plant food that would not otherwise become available so quickly. There is still another distinct value in farm manure, due to the fact that it makes the soil more porous and spongy and thus increases the power of the soil to absorb and retain moisture and to resist surface washing. In other words, this third value of farm manure is due to improvement in physical condition.

The value of farm manure for its physical improvement of the soil is commonly fully appreciated, and frequently overestimated by popular agricultural writers, while its value for the plant food which it supplies and for that which it liberates from the soil is sometimes almost ignored.

There is no good excuse for erroneous teaching regarding these different values, because there exists a vast amount of positive information both from practical experience and from exact scientific investigations.

Thus, organic matter from peat beds hauled out and spread on the land and incorporated with the soil produces no such effects on crop yields as are produced by good farm manure. Why? Because the peat does not decay readily so as to furnish plant food, either by its own decomposition or by liberating it from the soil; and yet the peat has as great power as farm manure for physical improvement of the soil.

Manure made from clover hay and heavy grain rations has much greater value than manure made from wheat straw. Why? Is it because they affect the physical conditions of the soil in different ways? No; the great difference in value is due to the difference in plant food and in rapidity of decay.

At the famous agricultural experiment station at Rothamsted, England, on a field to which no manure and no plant food have been applied, the average yield of wheat has been 12.9 bushels per acre for more than half a century. Land treated with a heavy annual application of farm manure has produced 25.5 bushels of wheat per acre as an average during the same time. Another field, treated with commercial plant food without organic matter, has produced 37.1 bushels of wheat per acre as an average during the same time. The latter field received a little less plant food than was furnished in the manure, thus furnishing ample proof of the value of plant food supplied, and showing that the physical effect of the farm manure was by no means so important.

Nevertheless, the physical effect should not be overlooked. Under certain seasonal conditions this physical value may be very important. Thus, in the very dry season of 1893 at Rotham-

sted the land fertilized with commercial plant food produced only 21.7 bushels of wheat per acre, while the farm-manure plot produced 34.2 bushels the same year.

In semi-arid regions the physical condition of the soil and its power to absorb and retain moisture may be the controlling factor in crop yields, but where the average annual rain fall is twenty-eight inches (as at Rothamsted) or thirty-seven inches (as in Illinois), with a fairly uniform distribution during the growing season, the physical conditions of the soil in relation to crop yields may be compared to the shelter and other physical surroundings provided for live stock. In other words, under normal conditions the controlling factor is food, for crops as well as for live stock.

While manure has some value for physical improvement and a larger value for its power to liberate plant food from the soil, it should be clearly understood and always borne in mind that the great value of farm manure, especially in profitable systems of permanent agriculture, is due to the plant food it contains, and that the greatest problem in the handling of farm manure is to prevent the loss of plant food.

The value of average fresh farm manure is about \$2.25 a ton, either when determined by chemical analysis on the basis of present market values for the plant food contained in the manure or when determined by the value of the increased crop yields produced when the manure is applied to the fields in ordinary crop rotations.

This means that a pile of average fresh farm manure containing 100 tons is worth \$225. If exposed to leaching from heavy rains during only two or three months in the spring the value will be reduced, as a rule, from \$225 to about \$150 by the loss of plant food without much reduction in total weight. Indeed, the total weight is frequently increased under such conditions, because the rain water that remains in the manure may be in greater amount than the urine that has been washed out. Fermentation and additional leaching during the summer may easily reduce the value to \$100 or less.

There are two satisfactory methods for han-

dling manure. One of these is to haul and spread the fresh manure daily, or at least two or three times a week. For this purpose a manure spreader, or at least a wagon used for this work only, is very useful and almost necessary.

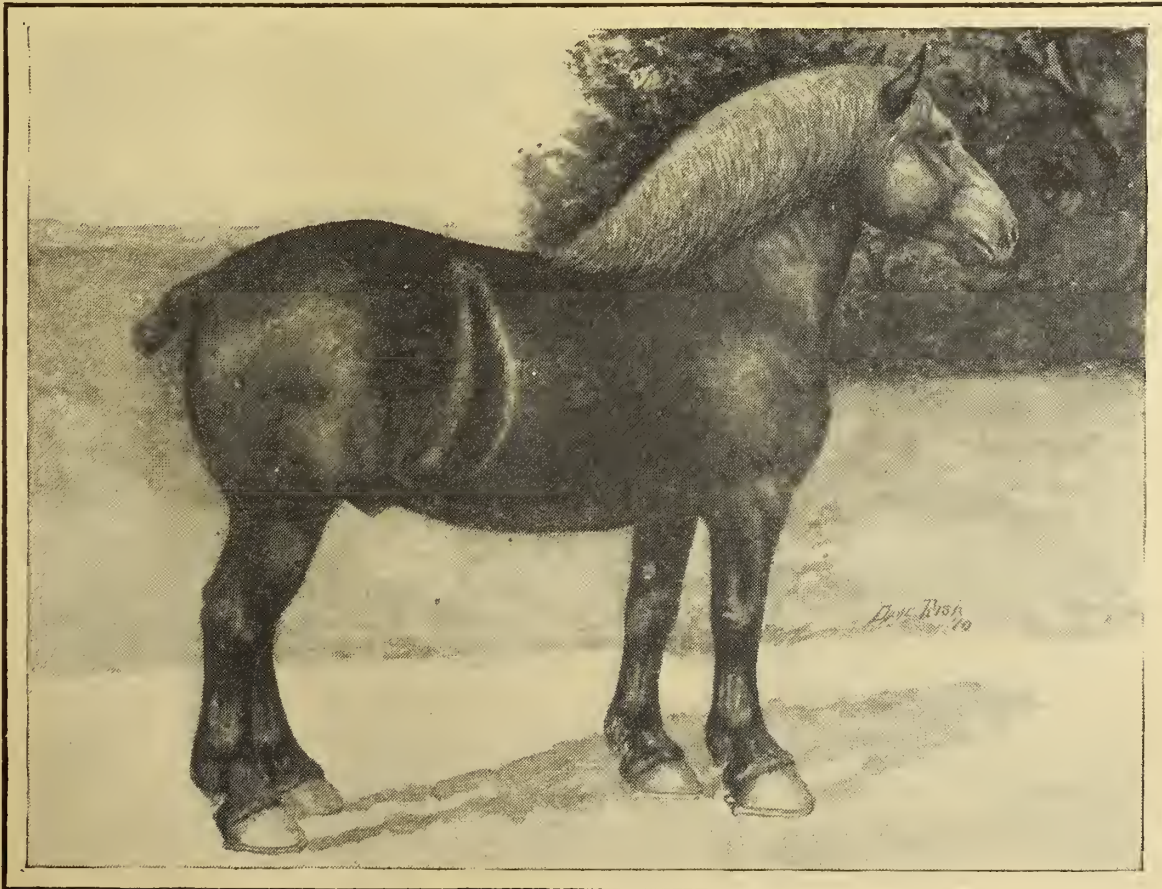
The other method is to allow the manure to accumulate in the stall or covered feeding shed while it is constantly tramped by the animals and kept moist by the liquid excrement, sufficient bedding being used to absorb the excess and to keep the stock clean, and then to haul and spread it on the land when conditions permit. It should not be left, however, to dry out and heat and decompose in the stalls or sheds long after the animals have been turned out to pasture.—(C. G. Hopkins in Kansas Quarterly.)

HOLDING FOODSTUFFS TOO LONG.

Potatoes are being loaded on the cars at points along the Erie railroad for seventeen cents a bushel. Last fall they were selling for fifty-five to sixty-five cents a bushel. At this price the profit to the farmer was considerable, but in a great number of cases the farmers held their potatoes, anticipating a still greater rise in the market. Had only a few done this the result might have been profitable, but, as it was, too many farmers had the idea of larger profits in the spring and too many potatoes were held over. After keeping them all winter and standing the shrinkage, the farmers are now receiving from one-third to one-fourth of the price which they would have received had they released their potatoes when they were dug. The lesson is one which calls for the following moral from a Buffalo newspaper:

"Farmers, above all others, should be content to take a fair price when they can get it for a mutable crop like potatoes. Another lesson is that the high cost of living is not inevitable. It can be checked by an increase of production of the crop most affected by the rise in prices. If half the farmers in this section raise fewer potatoes this year, the price will be higher next fall and spring. And if western corn producers, tempted by dollar corn and better, raise more corn next year and make it profitable to feed more hogs, pork will be within the reach of poor folks as usual instead of ranking among the luxuries as now."

The incident is of interest as showing the extent to which the farmer is directly responsible for the high price of living necessities. In the last analysis, supply and demand determine the prices which are charged for the majority of foodstuffs. When the supply is proportionate to the demand, the equilibrium is maintained and prices are within the reach of the rank and file of the people, but when too large a supply of any foodstuff is dumped on the market, or when these same foodstuffs are held in anticipation of a rise and are held in too large quantities and then released simultaneously,



PERCHERON STALLION, HAMEAU.

Hameau, whose picture is printed above, is a three-year-old Percheron stallion at the head of the stud of Messrs. Maasdam & Wheeler, at Fairfield, Iowa. He is a son of Coco. He will stand for a limited patronage at a fee of \$50. Messrs. Maasdam & Wheeler have also in service the great stallion, Lamy, by Besique (1902). The firm have a number of high-class stallions for sale, as advertised on page 46.

(Continued on page 6)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

HOW MISSING HILLS AFFECT YIELD OF CORN.

So much has been said during the last few weeks about the importance of testing seed corn, that we fear that the subject will take the form of a sort of nightmare in the minds of many farmers. College professors, experiment station workers, bankers, the agricultural press, and in some cases even preachers, have been pointing out to farmers how careless they are in not testing their corn. We have endorsed the propaganda because the last fall the conditions were very unusual, and as a result the vitality of a great deal of corn was destroyed. The "stand" is the thing in getting a yield of corn, and good seed is the basis of a good stand.

Another phase of the subject from the one commonly taken up, was reviewed some time ago by Professor Ten Eyck, of the Kansas station, in an address before the annual meeting of the state board of agriculture, and, among other things, Professor Ten Eyck said:

From the study of the question of "stand" we arrived at this conclusion, that the yield of corn does not vary directly with the stand of corn; that is, a half stand of corn produced more than half a crop, compared with what a full stand produced. We observed that the poorer the stand the greater the yield compared to the number of stalks and ears harvested. It was our judgment at the time that a small percentage of missing stalks had very little effect on the total yield of corn, and we are quite sure that a missing hill does not mean a percentage loss in yield equal to the percentage loss in stand, and that on the average soil, in the average season, as much as 10 per cent of the stalks of corn may be missing without materially lowering the yield from the field. The stalks or hills adjacent to the missing hill certainly do develop better and produce larger ears than they may when no hills or stalks are missing.

We have observed some of the discussion along this line, which would indicate that a missing hill meant that much less corn when the crop was harvested. We believe, however, that this point has been much overdrawn. It will depend very much upon the soil and the season as to whether a small percentage of missing hills has any effect in lowering the yield of the crop. In fact, we have observed fields of corn this season which would have produced a larger yield of corn per acre if there had not been so good a stand of corn. Probably the corn was not too thick for an entirely favorable season, but during the month of August the weather was very dry and hot in sections of this state, with the result that corn was checked in its growth, tending to produce a lower yield than would otherwise have been the case; but with a thinner stand the dry weather had less effect. It is true also that soils which are not especially fertile will fail to bring a full stand of corn to proper development and maturity, while with a thinner stand a better yield of large ears may result.

We believe that every farmer should plant the best seed which it is possible for him to secure, and plan for a perfect stand of corn of such thickness as the land may be adapted for in the average season. However, it is the general rule that farmers plant a little too thick, with the expectation of a favorable season, when if the season proves unfavorable a few missing hills will have no effect in lowering the yield of corn and may actually give an increased yield over a perfect stand.

Possibly this will be in a measure consoling to those who, after all their care in testing, find that they have failed to secure a good stand of corn, because Professor Ten Eyck is no doubt on the right track when he

says that the larger growth of the corn, when a full stand is not secured, tends to make up for the lack of stand. At first, from reading Professor Ten Eyck's conclusions, one would be inclined to believe that an imperfect stand is desirable, but a careful reading will show that no such meaning is intended, because he has done as much in his teaching in connection with the college and with the experiment station as any other man, to induce farmers to plant only their very best seed.

FOALING TROUBLES.

Most of the serious losses of newborn colts which occur annually may be prevented by proper care, states Dr. A. S. Alexander, in charge of horse breeding at the Wisconsin College of Agriculture, in a circular of information, written by him, on the care of the newborn foal. Large numbers of foals die annually from navel and joint diseases, or derangement of the bowels.

The infection is due to filth germs present in dirty stalls and stables. On infecting the navel stump the germs cause pus, then secondary abscesses form elsewhere in the body, often in the joints of the limbs. Infection will not take place if the foals are born in a clean, sunny, well-ventilated, disinfected and whitewashed box stall, properly bedded.

Care should be given to the navel, as follows: If it is necessary to tie the navel cord, a clean string that has been soaked in a 1-500 solution of corrosive sublimate should be used. At once the stump of the navel should be saturated with a solution of two drams of powdered corrosive sublimate in one pint of boiling water, to be used cold, and the application should be repeated twice a day until the navel is perfectly healed.

Carbolized lard or vaseline should be smeared around the navel to prevent the corrosive solution from blistering the skin. The foal's bowels should move freely soon after birth. To stimulate movement, rectal injections of lukewarm slippery elm bark tea, flaxseed tea, sweet oil or warm water may be given. If results do not promptly follow, two to four ounces of a mixture of equal parts of castor oil and sweet oil, shaken up in milk, may be administered from a bottle.

PRIZE FOR MOST CORN.

Senator Gore, of Oklahoma, believes in keeping the boys and the girls on the farm, and to do what he can in the work has offered a free trip to Washington as a prize to the one who raises the largest crop of corn on an acre of ground. The conditions are that the contestant must be under sixteen years old and must have done all the work himself.

The announcement of the prize was made a few days ago, and already Senator Gore has received between 3,000 and 4,000 entries, showing the interest of the young folks of the Southwest. The department of agriculture has promised to furnish to all applicants information about the growing of corn. The offer originally was intended exclusively for boys, but the senator has received letters from a couple of Oklahoma girls who are so desirous of entering the contest that he has granted them the privilege.

In a similar contest in South Carolina last year a boy under the age of sixteen raised 155 bushels of corn on an acre of land. This is more than four times the average yield of Iowa corn fields and exceeds by two bushels the 1909 yield reported by the president of the Iowa State Corn Growers' Association, a yield which won the prize in that state last year. In the South Carolina contest the greatest interest was manifested by several hundred boys, and in Oklahoma repetition of this interest is expected. The winning boy not only wins a prize which is well worth trying for, but in practically every case the contestants receive for themselves the returns from the acre which means anywhere from \$25 to \$75 for their summer's work. The scheme has proved one of the best yet tried for interesting farm boys in farm work, giving them an incentive in the way of making money and trying for a prize which is large enough

and attractive enough to interest anybody.

PROFITS FROM PURE-BRED MARES.

No state in the great central West is doing as much as Wisconsin to effect improvement in the herds and flocks of the state. This is particularly true of the horse industry, for the simple reason that horses are by far the most valuable asset of the live stock industry of Wisconsin. At the head of this work stands Dr. A. S. Alexander, who has just recently prepared a bulletin containing suggestions for horse improvements. Among other things, the pure-bred mare comes in for a share of discussion, and on this subject Doctor Alexander says:

While it is highly important that high-grade mares should be widely employed throughout the state for the production of work and market horses, there is great need for more pure-bred mares than our farmers own at the present time. From such mares pure-bred stallions could be produced to take the place of the undesirable grade, mongrel and scrub stallions so numerous now. Handsome profits may be made from the ownership and employment of pure-bred mares. They will pay for their keep by work on the farm and at the same time produce valuable pure-bred colts and fillies for sale.

The pure-bred mare, Thirsa, bred by ex-Senator Hagemester, of Brown county, Wisconsin, and owned by the University of Wisconsin, was foaled in April, 1900, and purchased at a cost of \$500 for use at the agricultural experiment station. This mare offers a good example of the type and character of brood mare needed on the farms of the breeding districts of Wisconsin. Thirsa was recently photographed in company with her five fillies, Thirsa 2d, foaled April 3, 1904; Thirsa's Flora, foaled April 5, 1905; Thirsa's Dora, foaled April 15, 1906, and Thirsa's Lady, foaled May 8, 1907. Thirsa's foal of 1908 died at birth and she had no foal in 1909, but is pregnant now. Her daughter, Thirsa 2d, has produced two good foals and more are expected from her and other daughters next spring. As Thirsa also is a good worker on the farm she has proved a profitable investment. Farmers who give proper attention to their horses may confidently expect good returns from the ownership of mares such as Thirsa.

The experience of other breeders corroborates the last statement. McLay Bros., of Rock county, owned a pure-bred Clydesdale mare named Gold Leaf which produced by the time she was twelve years old, five colts and two fillies which sold on an average of \$850 at three years of age. The same breeders have owned some profitable grade mares. One of them, of no special breeding, and weighing about 1,200 pounds, was mated with pure-bred Clydesdale stallions and produced thirteen foals. These foals sold for an average of \$165 when broken and ready for the market.

As an evidence of what has been done in other states it may be stated that a well-known Iowa breeder of pure-bred Percheron horses, who holds an auction sale each year, made an average of about \$500 per head at the sales of 1905, 1906 and 1907. In this spring sale of 1907 ten two-year-old stallions averaged nearly \$1,050 each. Yearling fillies generally have brought \$400 to \$500 each and have been sold as high as \$700. Yearling stallions have averaged around \$400 per head and some have sold as high as \$1,100. The experience of this breeder is that, in round figures, good young mares with foal will sell for from \$500 to \$600 each; good young stallions from \$800 to \$1,200 each; yearling stallions about \$500 each and yearling mares from \$400 to \$500 each.

At an Illinois auction sale of pure-bred Percheron horses held in 1908, one breeder sold fifteen weanling stallion colts for an average of \$345. They were all by the same sire. At this sale forty-two mares sold for \$21,310, an average of \$507; eight stallions (colts) for \$2,795, an average of \$350, and fifty head for \$24,105, an average of \$480.

Instances enough of this character could be cited to fill pages of this paper. The practice of breeding from pure-bred mares has been profitable in the past and is bound to be even more profitable in the future. We have been fortunate in getting hold of some of the best drafters in France, Belgium, England and Scotland, and with the stock that we have already on hand, we are in splendid shape to start on a campaign of breeding operations. We have just this much confidence in the climate, soil and crops of the central West that it is our opinion that we can raise as good horses as can be raised anywhere on earth. It will be better for the horse industry and better for everybody concerned if we could find one or two pure-bred mares working on the small farm, rather than that large numbers of these should be kept by extensive breeders on large establishments. The man

who works his mares can raise horses cheaper than the large breeder, whose main business it is to raise horses rather than to farm, and because of this fact we would like very much to see the small farmers more and more taking hold of pure-bred mares in the future.

SECRETARY COBURN FAVORS SEED CORN TESTING.

Secretary F. D. Coburn, of the Kansas Department of Agriculture, is urgently requesting the farmers of his state to test their seed corn, thus supplementing the work of the agronomists who are traveling over the corn belt in special trains, preaching this gospel. Secretary Coburn says:

While urging farmers to test their seed, particularly this spring, might be in a measure considered by some "detrimental publicity," it would be incomparably less harmful than no corn, or, rather, a diminished crop, through failure to plant good seed. Corn is the most valuable soil product of the nation. It supplies materials for many uses, but is the chief substance in economical and profitable meat-making. It makes possible our superiority in live stock, and any appreciable curtailment of its annual output would be a serious setback to innumerable industries. The United States produces 80 per cent of the world's corn, and the bulk of this is grown in the states of Illinois, Iowa, Kansas, Nebraska, Missouri and Indiana. The situation as to seed is similar throughout these states, for the early frosts and freezing of last fall extend over a large portion of the big corn-yielding areas.

Testing seeds of all kinds intended for sowing or planting is one of the best investments the farmer anywhere can make, and is vitally important in such cases as are presented by the seed-corn problem of this spring. It may save many a farmer his labor, time and a creditable crop this year, and cannot be too widely or emphatically urged.

The question of "detrimental publicity" should not enter into the situation. It is much better that the word should go out that seed corn in Kansas, Missouri, Iowa and throughout the entire corn belt is in a poor condition this spring, than the crop should be small. The corn belt can stand this detrimental publicity if the farmers will realize that the situation depends upon their testing the corn, and so the average yields for the various states will be maintained. It will take more than report of poor seed corn to offset the wonderful progress and prosperity the corn belt has made within recent years.

CANKER-SORE MOUTH IN PIGS.

A stunted pig is generally a money loser. Of course, where there are a few runts in a big bunch, we are never able to compute or ascertain the loss sustained on account of the dwarfs. The successful swine raiser, however, is generally able to handle his sows in such a way so that he has no runts. One of the best known methods of dwarfing a pig is to allow the conditions to develop that will produce canker sores in the mouth. In a bulletin published recently by the Wisconsin Experiment Station, this subject is discussed at some length. According to this bulletin, the cause of the disease is infection of slight scratches of the nose, mouth, tongue and gums. This germ is present normally in the intestines of hogs and may be found wherever their voidings have dropped. The disease, therefore, is most likely to attack pigs kept in unsanitary buildings and yards and the contagion lurks there from year to year. The sharp teeth of new-born pigs cause lacerations when the animals play and fight, and the cuts and scratches becoming infected by the germs derived from the filth of the floors and the soiled udder of the sow develop the eating canker sores or ulcers of the disease. On the prevention of the trouble the bulletin gives this advice:

To prevent the disease, sows and pigs should be provided with clean pens and yards. Provide clean bedding, keeping it fresh and dry. Pens should be cleaned out often and yards kept free from accumulations of filth. Disinfectants and land plaster (gypsum) should be freely used in the pens daily. At birth the sharp teeth of each pig should be carefully nipped off with pinchers, but more harm than good may follow if the gums are cut or bruised when operating. Treat the disease by scraping each ulcer thoroughly and then rubbing it lightly with a lunar caustic pencil. Afterward swab the affected parts twice daily with a 5 per cent solution of permanganate of potash.

If lumps or boils form upon the

snout, cut deeply into each with a sharp knife and at once saturate with tincture of iodine. Repeat the application once daily and each other day apply iodine tincture to the ulcers in place of the permanganate solution. In mild cases good results have followed sousing the heads of the affected pigs over and over again daily in a solution of one to two ounces of permanganate of potash in one gallon of warm water.

It should be added that one of the prolific sources of this trouble is improper feeding of the sow in advance of the period of farrowing. If she has an insufficient supply of milk for the little pigs, there is bound to be a great struggle for existence, and the little fellows in trying to make their living are sure to do lots of fighting. They will pound one another with their little tusks, thereby producing sores, and in turn these become infected, after which you have a real canker. By feeding the sow liberally so as to insure a normal supply of milk, there is as a rule very little difficulty experienced with this trouble.

AMERICA THE GRANARY.

A German official of note who has been visiting in the United States for many weeks believes he has discovered a startling condition of affairs. He asserts that the time is rapidly coming when the United States will not be in a position to supply the world with wheat and grain and other food-stuffs and that some other country will be called on to act as the granary of the world. This country, in his opinion, may be Canada, Manchuria or some South American country, although Canada is given the preference by him in his economic forecast. In this particular respect the eminent German agrees with James J. Hill, who has been sounding several notes of warning to the American farmers, holding that they are not raising enough wheat to supply the needs of their own country in the near future, to say nothing of the amount required for export.

The German official states that farms and farmers are growing fewer in number in America. He accounts for this on the theory that "the farmers and their sons are attracted to the cities. They sell their holdings and the consequence is that there is one less farmer in the United States. This goes on every day of the year, and year after year this process of defarming the United States will bring about most serious conditions. American cities are alluring to young farmers. They see that they can earn more money in the cities than they can make on the farm, and the same holds good with the girls."

Exception might well be taken to the last sentence of the German visitor's statement, for while there are doubtless many boys and girls on the farm who "think" they can earn more money in the cities, it is going too far to say that they "see" they can earn more. It has come to be a recognized fact that the average young man of the farm is in a more prosperous condition and has more money in the bank than the average young man of the city. It was not so very long ago, that the statement was made by an economic authority that less than a month stands between the average city man and the bread-line of poverty. That is, if the city man were to be thrown out of employment and no new employment could be secured he would be dependent upon charity for his existence within less than one month. No one will argue that such a condition exists in the country, where body and soul may be kept together by the individual effort of the man himself and where the per capita wealth is greater than the per capita wealth in the city.

The German visitor's assertion that farmers are growing fewer in number each year in America may also be questioned. For every farmer who comes to town to live there will be found two or three city men who are seeking homes in some new section of the country, either in the Northwest or the Southwest, and who are only too glad to quit city pavements for country lanes. It is estimated by railroad officials that from five to ten thousand homeseekers are passing through Kansas City and St. Louis each month, en route to the Southwest, while immigration officials state that the population of the Pacific Northwest is being increased at

the rate of almost 100,000 a year. The great majority of these people are taking up large ranches or small intensive-farming tracts of land. In number they far more than offset the infrequent grain-belt farmers who are moving to the city to enjoy luxuries or to educate their children.

The comment of the German visitor is interesting, but it is too impressionistic and evidently based on a too fleeting study of conditions to be of much value. America remains the granary of the world and thanks to the progressiveness and the thirst for knowledge of the rank and file of the American farmer it will long remain the world's granary. There does not seem to be any immediate occasion for anxiety.

GROWING CANE FOR ROUGHAGE.

The following communication has been received from a subscriber, Mr. W. S. Simmons:

I have seen several articles in your paper about cane hay, and am wanting to raise some this year, but none of the articles have said anything about how much seed to sow, or when to sow it. I should like to sow it so that I can get as many cuttings as possible. Will it be to my advantage to top-dress after each cutting, with fine manure, and about how much manure per acre would be best? Any and all information about the cane hay will be thankfully received.

Ordinary cane is seeded broadcast at the rate of from eighty to 100 pounds of seed per acre, and in the corn belt one cutting is all one can expect. The land should be thoroughly prepared and the crop should not be sown until the soil has become well warmed up. It would be entirely practicable to top-dress the land, but we would prefer to do this before sowing the seed, so that tillage operations would incorporate the manure with the surface soil. Eight or ten, or even twelve loads per acre could be put on, with the expectation of getting satisfactory results from the application.

As cane seed is usually quite high in price, it is sometimes entirely practicable to sow the seed with an ordinary drill, after stopping up a number of the spouts. In that case the cane rows may be placed anywhere from thirty to forty inches apart. When this plan is adopted, a peck or two of seed will sow an acre. There is another advantage in handling a crop in this way, because it can be cut with a self-binder, whereas, if cane is sown broadcast, it must be cut with a mower and cured much in the same way that one would cure a crop of heavy hay.

FRESH MANURE ON CORN LAND.

The following communication has been received from a Missouri subscriber:

I find that I have on hand 200 or 300 loads of farmyard manure and I am not just certain as to the best way to use it in order to get the most good out of it. More than half of my land that is intended for corn is already plowed and I rather hesitate to stop plowing long enough to haul the manure so that it can afterward be turned under. It seems to me in that case I might lose more than I would gain. I would like to have your opinion, however, on the practicability of the plan of plowing the ground first and afterward scattering the manure on the surface and working it into the land with pulverizers or harrows. Would one get the full value of the manure by applying it in that way, or would it simply remain on the surface and become dried out so as to be of very little value?

We have never favored very strongly the plan of plowing under fresh farmyard manure in the spring, for the simple reason that such manure is sometimes apt to intercept the movement of the water from below upwards, and as a result crops may suffer in dry weather. However, this objection has been largely removed by the general introduction of the manure spreader which evenly distributes even as small an amount as six or eight loads per acre. Such an application can do harm to no crop and where a manure spreader is available we wouldn't hesitate to advise any man to haul his manure on his corn land before it is plowed up, if it is possible to do so.

On the other hand, nearly every farmer finds himself in the same dilemma as this subscriber, because the average man hesitates to delay plowing his land long enough to haul the

manure. There is so much advantage in getting the plowing done early so as to get the weeds started, and in turn killed, that the strong impulse to get the plowing done is really the correct one. But it is entirely practicable to apply the manure after plowing, if a light application is made. It is a little different to do this with the old-fashioned method of putting it on with a fork, but the spreader will do the work in ideal shape. After applying it, it ought to be well worked into the surface by the use of either the disk or the harrow, so that the manure will not interfere with the corn planter, and the incorporation of the manure with the surface soil also tends to lessen the difficulty of properly using the cultivators the first time through the

crop. We repeat again that if there is time to do the work, manure can be put on corn land in this way and the very best results obtained.

In spite of this, however, it is a fact that the soundest kind of practice, so far as applying farmyard manure is concerned, is that which places it on the meadows and pastures. In that case those crops are greatly benefited, the manure is absolutely all utilized by the grass plants, and in turn the soil is left in ideal condition for corn when the sod is plowed down and rotted. This is the general policy that ought to increase in popularity among farmers.

"It seems that the only way to keep from getting rich," observes a grain-belt paper, "is not to buy any land."

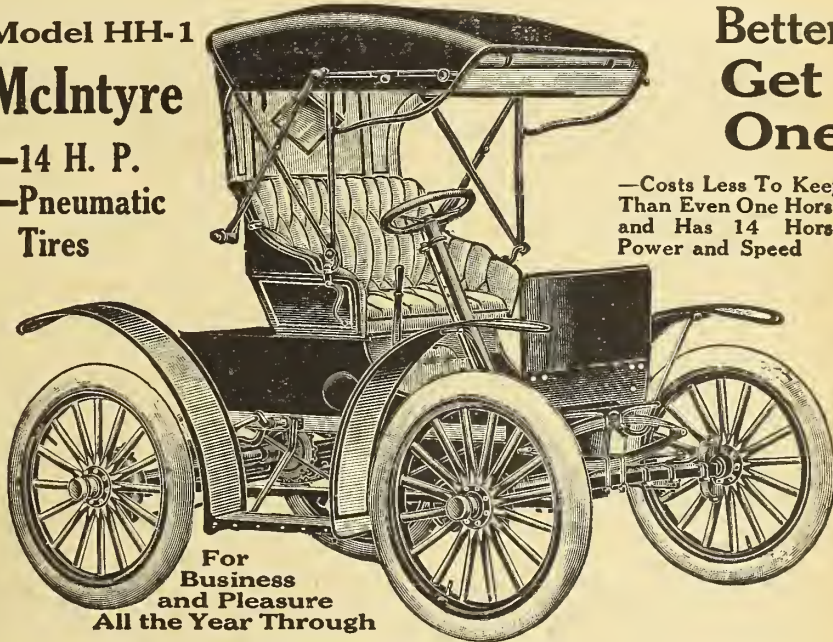
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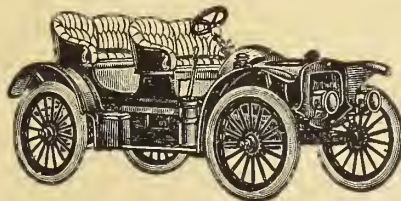


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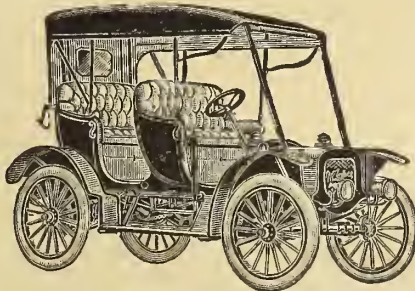
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THE SEED CORN PATCH.

While it is not absolutely true that like begets like, it is true that like tends to beget like and this is the foundation of the breeder's hopes. And be it remembered in this connection, that the word "breeder" has a much broader significance among farmers in general than it had a decade ago. Formerly we talked about breeding cattle or hogs or horses, but in these days we apply the term to plants just as glibly as it was formerly applied to animals, for the reason that it is possible to breed up corn just as well as it is to breed up live stock. Our station workers have more and more to say each year about corn breeding or improvement, brought about through the use of a special seed corn patch. This subject has been given a good deal of attention recently by those experts who have been employed by railroads to give instruction on corn problems in general. One of these instructors, Prof. M. L. Bowman, who for a number of years was head of the farm crops department of the Iowa Agricultural College, gives the following advice on the seed patch, as applied to corn:

It would mean millions of bushels increase in the annual yields of corn fields if every farmer had a seed patch of five acres from which he secured his seed in the fall for planting the following spring. And what a simple operation this is. It is not expensive, neither does it consume any large amount of time. It is so simple that every farmer can carry it out to the letter and when he once tries it he will never be without one thereafter.

When you test your seed corn this spring you will, of course, note that all of the ears do not germinate alike. Neither are they all equally strong and vigorous in their appearance. Just as you would select animals for breeding purposes, select say fifty or sixty of the strongest, most vigorous and best ears you have in your seed. This will be the seed that you are going to use for your seed patch. In the first place where will this patch be located? Of course, it could be put off by itself, but this is not absolutely necessary. It may be put on the south or the southwest portion of one of your larger fields. Possibly your neighbor will have some corn just across the fence from your field and in this case the seed patch had better be planted on the north side of your larger field.

No special preparation need be given this five-acre tract other than that which you give to the rest. Of course, in all cases the seed bed should be thoroughly prepared before planting.

In preparing these sixty ears for seed patch you will, of course, shell off the butts and tips, as in the case of all the rest of the seed. The tip kernels are smaller, harder to plant, and the butt kernels are often extremely large and not uniform and for these reasons, if for none other, it is well that the ends of the ear be shelled off. It is not necessary to keep the kernels from one ear separate from the rest; just shell the sixty ears together and plant the seed in this five-acre patch. It would be desirable to plant this patch the very first of any of your corn and, of course, in fall plowing, preferable to spring plowing, in case it is sod land. Care for this five-acre field just the same as the rest. Cultivate it right along with the rest.

Soon it will be time for the tassels and silks to appear and just here is where you will want to be sure and give this five-acre patch a little special attention. The silk is the female portion of the plant, the tassel is the male. And no doubt you have all noticed that whether or not a stalk of corn puts forth an ear it is seldom but that it puts forth a tassel. One silk is produced for every kernel of corn on the cob, ranging from 800 to 1,000 in number, but it has been determined that on the average a tassel has from 40,000,000 to 50,000,000 of pollen grains. Now one pollen grain is sufficient for the fertilizing of one silk. The pollen is blown about the field, lights on a silk, the silk is fertilized and the kernels of corn are produced. Take a butcher knife (which is about as good as anything to use), see that it is good and sharp and take a stroll out into this five-acre patch just when the tassels begin to appear and whenever you come to a weak stalk, a barren stalk or a sucker, cut it off right down close to the ground.

And why should we go to the trouble to do this? Here is the reason. No doubt you have often gone out into the corn field the latter part of September to pick some seed corn and as you have walked here and there in the field you would find the large, well-matured ears. Possibly you took a great deal of pains to examine the stalks from which these ears were taken, but did you ever stop to consider what sort of a father those seed ears had? Of course, you have appreciated that the sins of the father are visited on the children to the third and fourth generation, but have you stopped to consider the fact that half the kernels on a large, fine ear of corn picked promiscuously in the field might have had as their father a little, runty stalk like this one (holding before his auditors a small, weak stalk, producing an extremely nubbly ear) which is so commonly growing in every corn field in Iowa? Now, then, I am sure you will see just why we should go into this five-acre seed patch and eliminate

every weak stalk and barren stalk, so that the pollen which is produced in that five-acre patch we know to be pollen from good, strong, vigorous, producing stalks. Then when we pick our seed corn we cannot only study the mother plant, the stalk, but we also will know that the father of the ears of corn which we pick for seed was equally strong and vigorous.

Now, then, the latter days of September (which is the time for picking seed) when you tell your wife that it is about time you were getting your seed corn and sling the sack over your shoulder and start off for the field, where will you go? Will you stroll around through that forty or eighty-acre field of yours? No, the very strongest, most vigorous, most productive seed you have is planted in a five-acre patch. You eliminated all the weak and barren stalks and suckers from this field. You know that the best seed corn you have on the farm is right in that small five-acre field and so instead of walking over a large area you go right into that five-acre field and soon you will have picked a sufficient amount of seed for the planting of your fields the coming season. Such a practice will substantially increase the yield and the quality of your corn crop and add millions of dollars annually to the income of Iowa.

This should not be a very difficult feat and yet it is a fact that the plan has great possibilities. By using the best seed obtainable, the scrub is more quickly eliminated than could possibly be done with fields planted indiscriminately with seed having no uniform type. The extra labor involved is so slight that even though only a little improvement should be made the first year, the ends would justify the means.

WHY FARMERS MOVE TO THE CITY.

In the course of a recent address, Prof. John L. Coulter, of the University of Minnesota, discussed the cause of farmers removing to the city in their old age. He ascribed three reasons for the movement. The first reason is that which is given by most young people, who say: "I left because I was sure that I could get bigger wages, and it is more interesting in the city." The second is that which is generally given by the middle-aged and older men and women, who say: "We want our children to be educated, and the city schools are far better than those in the country." The third is that which is given by both old and young far more frequently than either of the other two. Professor Coulter gives it as follows:

In the city they have paved streets and sidewalks; in the country we have muddy roads. In the city they have street cars, carriages and automobiles; on the farm we have work horses and wagons, or at best, a poor buggy. They have electric lights or gas in the city; we have the old oil lamp or tallow candle. They have telephones, telegraph and free mail delivery, and they don't need them half as badly as we, yet few of us who live far apart, a long way from the doctor and others, have these. They have furnaces in their homes and when they get up in the morning the house is warm and pleasant; we get up to find everything frozen and the house chilled. They have hot and cold running water and baths; we must go out to the old pump or melt snow and ice and take our bath in the dish pan or wash tub. They have toilet facilities and sewers. They have theaters, concerts and orchestras; we read about them.

Professor Coulter argues that the future and prosperity of the farm depend on farmers being able so to change conditions that these reasons will no longer be assigned. He urges that farmers join in organizing clubs—good, live, business clubs—with centrally located club rooms where the farmers may meet and discuss not only business matters, but enjoy unlimited social intercourse; also, that farmers, whenever possible, co-operate with city men in local undertakings and business enterprises. "For instance," he says, "let me urge that when a bank is to be started, to be supported by home capital, that fifty or a hundred representative farmers be invited to become stockholders, put in their \$5,000 or \$10,000, elect one of their number director, and join in the good work. This will only take enough of their time and money from the farm to help make business men of them. So, too, when a cracker factory, starch factory, canning factory or packing plant is to be established."

The point seems to be well taken, inasmuch as the more the farmers and the city men commingle, both in business and in social pleasures, the nearer will town and country be drawn together in a community of interests, while city conveniences will

be more widely introduced in the country as a direct result. This is fully as important, as building new roads and modernizing the farm home, for until the young folks of town and country become better acquainted, join more in one another's pleasures and pastimes, and visit in one another's homes to a greater extent, the equilibrium between the city and the country cannot be properly maintained.

In the meantime, as a starter, until the farmer does enter largely into business relations with the city man, as Professor Coulter urges, it would be well for him to inaugurate a better system of bookkeeping in his farm work. Too many farmers know the profits derived from an acre as compared with the expense of tilling the acre, and too few know the profits from their live stock as compared with the cost of feeding and keeping. A modest system of bookkeeping would easily determine the profits in all cases and would give rise to a liking for this kind of work which would make the farmer better qualified to meet the city man on equal ground when he shall have enlarged the field of his investment as suggested by Professor Coulter.

HOLDING FOODSTUFFS TOO LONG.

(Continued from page 3.)

the price naturally goes down. In many cases it is the commission man and the retailer who is to blame rather than the farmer. In this particular case the farmers themselves were to blame and were the losers. After the lesson of the incident is learned, however, the loss will be merely nominal. If the yield of the land along the Erie railroad can be enlarged, or if more people can be induced to take up farming, the incident will not be without value.

LIFE OF AN ALFALFA FIELD.

An Illinois subscriber who is thinking of sowing twenty acres of alfalfa this fall asks concerning the length of time that a field of alfalfa is likely to give good returns. This subscriber has selected a field near the farm buildings, and it is his plan to use it permanently as an alfalfa pasture if the crop will hold out.

In reply to this we will say in the outset that a good deal depends upon the "stand" obtained in the first place. Unless the soil is well prepared and a uniform stand is obtained, it will only be a few years at the outside before the alfalfa will be entirely displaced or practically so by other plants, particularly blue grass. Even under the most favorable conditions the tendency of the crop throughout a considerable part of the corn belt is to be crowded out eventually because it is, no doubt, weakened by the severity of the weather during the late winter months.

In his book on alfalfa, Joseph E. Wing has this to say concerning the life of an alfalfa field:

What, then, is the profitable duration of an alfalfa field? In California, in some of the dry valleys with loose subsoil, it may apparently endure for a century. The writer has walked over an alfalfa field in Texas that was forty years old; in Kansas perhaps ten years, in Nebraska maybe the same, or nearly as long; in Iowa probably four to six years. In Ohio alfalfa will endure for ten years on the best-drained land, and maybe for much longer time, yet the greatest profit is found in keeping it only while it is at its maximum efficiency, and that is about four years. Why expect or care to have it last forever? Alfalfa is one of the easiest established of clovers, nor is it costly to seed. It powerfully enriches the soil. Why, then, care to have it endure forever? It is wiser to use it only while in its full vigor, then as disaster overtakes it and one plant here, another there, dies out, leaving the stand thin, to plow it and reseed after taking off a crop or two of grain or roots, or whatever is required.

As a matter of fact, alfalfa will never take the important place in corn-belt agriculture that it is estimated to take by alfalfa enthusiasts until men come to regard it as only one crop in the rotation. To put a field in alfalfa for a period of five or ten years does not represent a high type of farming on the average small farm of the corn belt. Of course, we have in certain instances large farms where an acreage could be seeded to alfalfa and be allowed to remain with the reasonable

expectation of getting good results, but on the average farm, we again repeat, alfalfa should only be one crop in a regular rotation system, with this exception, that when one succeeds in getting a stand it might be allowed to remain two, or possibly three years. After that it ought to be plowed up if for no other reason than to permit of the establishment of an alfalfa field in another part of the farm. The day has passed when the average farmer in the central West can allow any part of his farm that is tillable to produce one crop year after year. The old-fashioned permanent pasture was all right in its day, but we are learning that grass is such an excellent thing for soil that all our land must be given its regular turn in grass.

OUR NEW ART DEPARTMENT.

The Homestead has recently established a complete art department and is now prepared to meet any and all demands for high-grade farm and animal photography and portraiture. It has been especially fortunate in being able to secure the exclusive services of two of the best-known and most talented artists in the country: Mr. Dave Risk and Mr. Alfred Morris.

Mr. Risk needs no introduction. His pictures speak for themselves. They are to be found, framed and highly treasured, in thousands of grain-belt farm homes. He is an all-round artistic genius who has not confined himself to any branch of work or to any class of subjects. He is an expert photographer and an artistic delineator of nature and live stock through the medium of drawings and paintings. His sketches have been used as cover designs and illustrations by the biggest and best publications in the United States. The signature of Dave Risk to any photograph, drawing or painting is a trade mark of excellence.

Mr. Morris stands without a peer as a photographer. He has an artistic conception and is equally successful with animals, machinery, buildings and all manner of subjects. His photographs are invariably clear cut and splendidly finished.

The Homestead announces that these two men, together with its splendidly equipped engraving and printing department, are at the service of the public. They will make any photograph, drawing, painting or bromide enlargement desired at prices reasonably commensurate with artistic work. The Homestead supplements their work by making engravings designed to suit any class of printing. A letter addressed to Pierce's Farm Weeklies, Des Moines, Iowa, will bring details as to prices, dates and all desired information.

ABANDONED IT

For the Old Fashioned Coffee was Killing.

"I always drank coffee with the rest of the family, for it seemed as if there was nothing for breakfast if we did not have it on the table.

"I had been troubled some time with my heart, which did not feel right. This trouble grew worse steadily.

"Sometimes it would beat fast and at other times very slowly, so that I would hardly be able to do work for an hour or two after breakfast, and if I walked up a hill, it gave me severe pain.

"I had no idea of what the trouble was until a friend suggested that perhaps it might be caused by coffee drinking. I tried leaving off the coffee and began drinking Postum. The change came quickly. I am now glad to say that I am entirely well of the heart trouble and attribute the relief to leaving off coffee and the use of Postum.

"A number of my friends have abandoned the old fashioned coffee and have taken up with Postum, which they are using steadily. There are some people that make Postum very weak and tasteless, but if it is boiled long enough, according to directions, it is a very delicious beverage. We have never used any of the old fashioned coffee since Postum was first started in our house."

Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

FEEDING STEERS FOR PROFIT

By John L. Towney, Wisconsin

SOMEONE has said: "There are only two kinds of farmers and the same may be said of any type of business men—those who make good and those who do not." It matters not so much what a man does so long as he has the proper spirit and throws himself to his greatest capacity into his work.

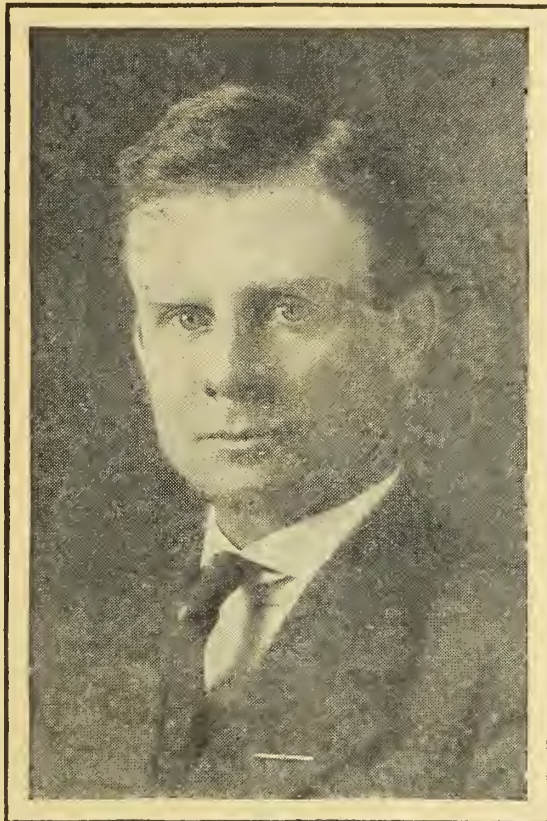
The beef-making proposition as such in the corn belt is not decreasing so much as some would have us believe; but it may be proportionately losing ground in the more densely populated sections where more hands, of necessity, must be kept busy. A great many people are accustomed to take outside demonstrations too much for granted just as a visitor at a show or a fair will admire, but will not reflect or attempt to figure out the time or labor necessary to bring the article or the production to its show shape.

In all farming operations two or three factors must always be kept in mind, and farm economists are endeavoring to get people to recognize these factors; and the worth of any article depends upon (1) the first cost; (2) the hours of labor put upon it; (3) the amount of money in some form put into it to perfect it; (4) the time required to get it into sale shape, and (5) the ultimate sale price or value.

In considering steer-feeding operations those opposed to the project should not lose sight of the fact that there are numerous farms where labor is scarce. In other words, the intensive farming proposition for some reasons known to the owner, perhaps such as wishing to keep his money in the land as a safe investment, or not being situated so as to properly solve the labor question, which in a great many of the "model farm" cases is such a dismal failure—does not care for the features incident to dairying and is satisfied with a fair gain (and in some cases better) and take the extra time to till his soil or perform other exceedingly important operations upon the farm. To completely attempt to determine whether or not steer-feeding operations are paying, the student or farmer should take into consideration, (1) the original cost of the steer; (2) the hours of labor involved in fitting the steer; (3) the pounds and kinds of feed used in fitting the steer; (4) the length of the feeding period so as to get a line on the interest of the money invested, and, (5) the selling price of the animal.

Of course, in the above, it is presumed that the feeder will endeavor to select cattle of the proper quality, and is a man who has sufficient knowledge about his business to know that the best are none too good and oftentimes not good enough to finish out and make profits over a long period. We will also assume that he knows enough about his business to endeavor to get general quality upon as thin a steer as is possible not only to get a wider buying margin, but also to lower the cost and increase the number of pounds of gain made.

The hours of labor and the time of the year they are put upon the steer are going to de-



JOHN L. TOWNEY.

termine to a considerable degree whether or not steers can profitably be fed in certain sections. High-priced land is no barrier to successful steer feeding if that land is productive, but high-priced land that is not productive is, in a sense, a barrier. Cheap land that is non-productive is a barrier to steer feeding, but low-priced land that is productive, but not properly located for tilling, is a valuable asset to the feeder's operations for grazing purposes.

In parts of the corn belt the report comes that farmers cannot afford to milk cows during certain parts of the year, because conditions have become such that the hours used in milking are worth more in producing corn than in extracting milk. Hours of labor are not of equal value at all periods of the year, but vary greatly and have what may be termed a "possibility value." They are worth more during cropping, corn-plowing time, haying, harvesting and thrashing than during fall and winter because a few hours' time lost during the growing and harvesting periods may upset a year's plans. Some of the corn-belt farmers have found that to allow each cow to care for her calf until after harvest and thrashing gives them an opportunity to bring the production of their land nearer its capacity, and they then can milk during fall and winter when the value of labor hours are cheaper.

Then, of course, there is always the question of price of feed to be taken into consideration. The price of corn is always given out as determining or helping to determine the price of beef and ultimately the price of the steer. There is a direct relationship existing between the cost of corn and the price to demand or expect for the steer, but it is not as close or as constant a relationship as between the price of pork, or hogs and corn. This is due to the fact, as everyone undoubtedly knows, that corn is not as entirely the sole diet of the steer, but his ration is made up also of considerable roughage; and during a great part of his growth he subsists on pasture alone.

We see the above quite clearly worked out now in the prices of hogs and cattle. The unusually high price of hogs—due, of course, to scarcity in numbers of pounds, due in turn to scarcity of hogs and amount of corn fed—has not been accompanied by a correspondingly high price of cattle and beef products. Butchers and commission men report that beef is now the cheapest meat to be bought at shops. Corn continues to be high-priced and undoubtedly will because it is a native of the corn belt whose territory is in a sense limited. Hogs will not be produced cheaply as long as corn is high unless we discover some new method of producing them; and possibly readjust our markets to accept favorably other than the lard hog. There is every evidence if conditions remain similar, that beef will continue to be our cheap meat and the demand will run toward it. Only when it becomes so high that people cannot afford to eat it will prices de-



A 2,100-POUND HEREFORD STEER.

(Continued on page 13.)



A BUNCH OF MARKET TOPPERS FED OUT BY WISCONSIN COLLEGE OF AGRICULTURE.

FARM FURROWS

Turned By a Practical Farmer

One of our hogs weighs 700 pounds, and just as she stands today she is worth \$70 for meat. I have seen the time when a hog of that weight wouldn't be worth more than \$20 and older men, no doubt, recall the time when she would possibly sell for \$1 per hundred pounds.

I have a horse that had a bad case of poll evil last spring. We had the veterinarian operate on him and his head seemed to be all right during the winter, but sure enough, just as soon as we get nicely into spring work it starts to swell again, so it is quite likely we will have to repeat the operation. If anybody has a specific cure for poll evil I would like to come into possession of the remedy.

There is a big difference between fields of new clover that were pastured heavily last fall and those that were not pastured. I have thirty acres that never had a hoof on them last fall or during the winter, and I never saw a better stand, while a neighbor who pastured his is obliged to plow it up.

I am still a believer in all kinds of riding machinery, and the older I get the braver I become in advocating the use of the harrow cart. I think life is too short to wear oneself out walking after a harrow, because I doubt if it adds fifty pounds to the draft for the team to haul a man of average weight.

Some men attach a great deal of importance to the matter of pulling the tusks out of the little pigs, but for my part I have never found it necessary. I think all the hammering and pounding that the little fellows do to one another is on account of the fact that there is no nourishment for them, and in their endeavors to get a supply they inflict all this punishment and, of course, it results in canker sores. If a sow has plenty of milk you will have very little trouble with these sores.

Sometimes it is necessary to change a calf that has been used to sucking its dam, to another cow. If the little fellow is three or four months old it is sometimes not an easy matter to make the change, but I will tell you how I got at the matter. Let the little fellow get thoroughly used to having his mother turned into a box stall with him, and when you want to make the change, wait until he is good and hungry and put the other cow in when it is dark. He may suspect that you are putting up a job on him, but his hunger will soon wipe away all his prejudices and there will be no further trouble.

Back to the land, is the doctrine talked by every city man. For the city laborer, just able to get a living together in these good times, it is good advice. I am reminded by a city friend that these are good times only for the farmer, though.

Corn planters are now being worked down to an exact mechanism. The man who bought four or five years ago wishes he could trade his in towards one of later improvements. It is this way with most farm machinery, it becomes antiquated before worn out.

A new trick on several of the new planters out this year is the variable drop feature. By the shift of a lever, the drop may be changed to two, three or four kernels in a hill. The advantage of this will be apparent to the man with poor knolls in his field.

Some men will not take a rest until it rains, and then they bring the harness into the kitchen to oil or mend.

The producer is the man who is on top now, and every consumer would like to be a producer. A few years ago every producer wished he were a middleman, living an easy life

off the producer—the man on the farm. When farm products are produced at a loss, the farmer envies the city chap; when farm products are high-priced, the city chap envies the farmer.

Those who profess to know say that hogs will be as scarce next year as they are this. I notice, however, none of the wise told us a year ago that there would be such a scarcity and such a price this year. Guessing on hog prices is like guessing on next year's weather.

The man who butchered his fat hogs late was caught by the wrong kind of March weather. Many of my neighbors have lost hams and shoulders in pickle and dry salt, the meat tainting before they were aware of it. March came in like a lamb and remained like a lamb to the end.

I have a patch of strawberries out in full bloom, and for the last three nights the thermometer has been a little too low down in the thirties to suit me. Three years ago I covered a patch, but lost them just the same. This year I have no covering, except hay worth \$10 a ton.

The other evening a man was working this neighborhood in the interest of a man who has a \$500 horse he wishes to sell for \$1,000. Company business I do not like. It has incited more trouble in some other neighborhoods I know than any other one thing, and I would not go into it with my neighbors if it were possible to get a \$2,000 horse for \$1,000.

The other evening, as a neighbor boy was coming to town, dogs came tearing out to the road, took after the boy's horse, bit it on the heels, and caused it to throw the boy. In the fall the boy dislocated his shoulder and lay in the road some time before help heard his cries. The cur dogs are still free, but here's a-hopin'.

We need more stone-arched and concrete culverts, the only kind that are everlasting and a pleasure to drive over. There is never a lift of from two to five inches, as there is on many plank culverts, and there is never a plank off for a horse's foot to go through.

If I were making dairying one of the main side lines in connection with my general farming, I most certainly would do it with none but dairy cows. This thing of beefing and milking with the same herd is poor business. I have tried dairying along those lines enough to know. I am now looking for a start in the very best, high-producing cows to be obtained at living prices.

A farm philosopher observes that, in their general farming operations, too many western farmers have too much that is spoiled in the tops and bottoms of their stacks. A pretty good hit.

I like to have farm tools that raise clear of the ground and above any ordinary obstruction met with in the road or at the ends of the field. Some of the high-lift plows when setting on a plank floor in the warehouse, become trash rakes on the turn row at the end, unless the depth levers are set at high notch.

It is a good idea for one to wash out his think works occasionally in a strong solution of good common sense, and then look at things as they really are. After a man has done this, his view of the political situation causes him to wonder why he ever voted for the party instead of the man. It is more than likely that I will never vote a "straight" ticket again.

When buying a new wagon, take along a six-foot measure, or get one after you are there. If you will use this in measuring the exact tread of the wheels, and insist that the wheels

tread or track exactly, you will have an easy running wagon. Measure the distance between the front wheels and then between the hind wheels; roll each wheel half over and measure again. If the wheels do not correspond to the fraction of a half inch, keep changing wheels until a perfect measurement is assured. You may think I am a crank in this, but try it and see.

CARE OF THE BROOD MARE AND COLT.

A subscriber, Mr. C. C. McCuan, of Johnson county, Ill., makes the following valuable suggestion relating to the sensible care of the mare and foal:

I have found that when a mare has been kept at work up to a short time before foaling and has been fed on a grain ration and then after foaling is turned out to pasture with her foal, it is safe to say that the colt is liable to die. Mares that have been worked moderately up to the time they are due to foal, are pretty certain to have a good, husky colt, and after the colt gets a good start on its dam's milk, that has been formed on rich grain food, all goes well until she is turned out on grass. Then the composition of the milk is changed and the grass milk is like poison to the colt, his bowels become loose and he sucks more and more, until at last he has the scours and dies. The result is not caused by eating poison weeds and grasses, but by the sudden change in the composition of the mare's milk due to change of food.

When it is desired to turn the mare and colt out on the pasture, get them accustomed to it gradually. When a mare is allowed to run in the pasture at night and fed a full grain ration she may be safely turned out to grass. But her grain food should be continued to insure best results. Mares and colts should have a little grain food every day, although not everyone will follow this practice.

It is certainly good advice to say that under no circumstances should a mare's ration be suddenly changed. We have found from experience that it is an excellent plan to let a mare have a little grass before she foals, if this is at all possible. If the weather is too cold to turn her out at night, it is quite often entirely practicable to allow her an hour's run in the orchard, or in some yard close to the house every evening after the day's work. The grass she gets in that way will bring her into such condition that when she is turned to grass there will be no sudden change to injure either mare or colt.

In these days of high-priced horses the average mare must be put into the harness when her colt is two or three weeks old, and after that do almost a full day's work every day. This being the case, she must be well fed and when fed heavily on grain there is practically no danger about turning her out at night with her colt when the weather permits, but, as said before, she must be worked up to it gradually by getting a little grass at a time until that point is reached where a night spent on grass will not have injurious effect.

LOOSENING A FIRM SOIL.

There has been more land plowed for corn early in the season this year than has been the case any time in the past, within the recollection of the present generation. In the main, this is going to be an advantage, because the long period between plowing and planting will afford an ideal opportunity for weed destruction. However, there is one phase of the situation that must not be lost sight of, because our clay soils and clay loams tend to get a little bit hard as the days and weeks go by. If we should happen to have a few heavy rains before the corn is all in, many fields that were plowed early will be almost as solid as they were before plowing and, this being the case, corn should not be planted on such soils unless the seed bed is stirred to a considerable depth. We like the plan of double disking a soil that has been plowed a few weeks before planting, because this not only destroys all weeds, but it will create a fresh seed bed to a depth of three or four inches.

In 1909 a characteristic instance of this nature was brought to our attention. A forty-acre field was plowed rather early in the spring, and later one half of the field was double disked, while the balance of it was simply harrowed before planting the corn. Both operations seemed to quite ef-

fectively destroy weeds, but in the one case a pulverized seed bed resulted, and in the other case the ground, as left by the harrow, was quite firm. The difference in the crop on the two parts of this field at husking time was very marked indeed. The harrowed land became so weedy that the dry spell during July and August caused the corn crop to suffer very greatly, while the part of the field that had been disked was comparatively clean and the drouth affected it only slightly. In this case it was largely a matter of weed growth, because the disk had destroyed the weeds to a considerable depth in one instance, while the harrow had simply killed those that had made their appearance above ground, but did not disturb those that were taking root, ready to spring up just as soon as the corn was planted.

We believe that good farmers generally will endorse the plan of giving plowed land a good disking before planting. It enables one to do a certain kind of work with four horses and heavy implements, which, if it is not done, must be done later with two horses on a corn cultivator, and every man knows which is the more effective weed destroyer—the heavy disk or the corn cultivator. As a matter of fact, more damage can be done to a crop of annual weeds in one day working with heavy implements than can possibly be done in the same length of time later on. More and more we must adopt the practice of destroying our weeds before they get a start, because after all that has been said about testing seed corn, making land fertile and everything else, a full crop of corn cannot be grown unless we keep out the weeds.

"The legislators who oppose laws compelling the pasteurization of milk," said Nathan Straus, "bring forward arguments about as weak as that of the Maine milkman. A lady summering in Maine said to her milkman severely: 'See here, this milk of yours is half water and half chalk. What do you mean by advertising it as pure?' 'Madam,' said the milk manufacturer with withering dignity, 'to the pure all things are pure.'"

A man advertises in a Kansas paper: "For Sale—Baby carriage, slightly used; going out of business."

Many a Clever Housewife

Has learned that to serve

Post Toasties

Saves worry and labor, and pleases each member of the family as few other foods do.

The crisp, dainty, fluffy bits are fully cooked—ready to serve from the package with cream or good milk.

Give the home-folks a treat.

"The Memory Lingers"

Pkgs. 10c. and 15c.

Postum Cereal Company, Ltd.,
Battle Creek, Mich.

CURRENT EVENTS

THEODORE ROOSEVELT spent the greater part of last week in Rome where he was granted an audience by King Victor Emmanuel. It was expected that Colonel Roosevelt would be received by Pope Pius X, but a short time before the ex-president arrived in Rome he received word from the Pontiff's secretary as follows: "The Holy Father will be delighted to grant an audience to Mr. Roosevelt on April 5th, and hopes that nothing will arise to prevent it, such as the much-regretted incident which made the reception of Mr. Fairbanks impossible." It will be recalled that Charles W. Fairbanks, former vice-president, was to be received by the Pope, but on account of delivering a lecture before the Methodists of Rome, the Pope withdrew his invitation. The inference of the Pontiff's message to Colonel Roosevelt was that Roosevelt was to be restricted to speaking to Catholics only during his stay in the Holy City. Colonel Roosevelt accordingly lost no time in wiring back that the restrictions made it impossible for him to accept the Pontiff's invitation, and accordingly he was not a Vatican visitor during the week. In order that there might be no misunderstanding, Colonel Roosevelt cabled to the editor of the Outlook that "among my best and closest friends are many Catholics. On my journey through Africa I visited many Catholic as well as many Protestant missions. The more an American sees of other countries, the more profound must be his feeling of gratitude that in his own land there is not merely complete toleration, but the heartiest good will and sympathy between sincere and honest men of different faiths." Colonel Roosevelt is not the man to have his plans made for him by any other person, even if he happens to head a great and powerful church. It is highly probable that the incident would have occurred had any other church attempted to restrict his visits to their own membership.

ON THE occasion of his recent visit to Worcester, Mass., President Taft took occasion to outline his position on organized labor. The president said: "I believe in labor organizations and if I were skilled enough to become a member, I should apply for membership. The fact is, I believe, I am an honorary member of the steam shovelers' union. But, in spite of that, and in spite of my sympathy with organized labor, I put above them, above everything, the right of every man to labor as he will, to earn the wages that he will, and, if he chooses, to stay out of labor organizations. That is the standpoint that the president of the United States must occupy in giving equality to every citizen of the United States." Later on in the speech the president declared that he believed labor unions necessary on account of the combinations of capital, but that a strict compliance with all the laws was absolutely necessary. He was enthusiastically cheered by the labor union men present and was given respectful attention even when he pointed out the minor flaws in the existing labor system.

TWO serious accidents have impaired aviation progress recently. A French aeronaut was making an ascent in a heavier-than-air machine when the machine turned turtle and fell to the ground, crushing him beneath its weight. A day or two later four German aviators attempted to make a flight in the dirigible balloon Pommern. Hardly had they left the ground before they became entangled in telegraph wires and dashed into the smokestacks and roofs of neighboring buildings. With the basket swaying wildly and half of its ropes cut, the balloon soared to an altitude of over a mile, disappearing into the clouds with terrific speed. Shortly afterwards the balloon drop-

ped into the sea, all four of the aeronauts being drowned. These are the first serious accidents to occur for several months, during which time much progress has been made in the navigation of the air. The Wright brothers and Glen Curtiss, of America, have made a number of successful flights, while Prince Zeppelin has traveled several hundred miles in his immense balloon. Aerial navigation has reached such an advanced stage that even these serious accidents cannot stop its progress.

THE United States government has started a crusade against stock gambling. Indictments were returned against twenty-three alleged proprietors of bucket shops in several large eastern cities, and the department of justice announces that it will prosecute cases to the limit. It is charged that in many instances employees of the various bucket shops have tapped the telegraph wires and received tips as to fluctuations of the stock market and have taken advantage of the public through means of this knowledge, thereby enriching themselves by considerable amounts. The government does not see any difference between this and the ordinary system of gambling and is determined to do what it can to put a stop to the pernicious practice. Notwithstanding the prosecution, western bucket shops are said to be operating the same as ever, probably proceeding on the theory that the prosecution is largely a matter of bluff. Attorney-General Wickersham, however, declares that he is in earnest and that he will do all in his power to protect the public from unscrupulous men who have been fleecing it.

PRESIDENT MARVIN HUGHITT has decreed that Sunday shall be a day of rest for the employees of the Chicago & Northwestern Railroad. For the first time in many years not a ton of "dead freight" was moved over the Northwestern lines last Sunday. Between 10,000 and 12,000 operating employees were given a perfect rest and every Sunday in the future will be just like it, except in times of business emergency. President Hughitt believes

men will do more work in six days than they will in seven. In this he is following out the experience of the French builders of the Panama canal, who attempted to work the men seven days in the week, but who found out before much time had elapsed that greater progress could be made by allowing the men one day off in each week. Both from a religious and an economic standpoint, the innovation of President Hughitt is to be commended.

THE republicans of Indiana held their state convention last week and inaugurated the political campaign of 1910 by adopting a platform which endorses among other things a protective tariff, a tariff commission, conservation of natural resources, the Roosevelt policies and the administration of President Taft. Senator Beveridge's record in congress was also enthusiastically endorsed. No mention was made of the Payne-Aldrich tariff law, but this in itself is taken as voicing open dissatisfaction. In regard to the national administration, the platform reads: "We recognize that no president in our history ever began his administration with such universal favor and good will as did William Howard Taft; few men have entered the presidency with such extraordinary training. We endorse his administration and pledge to him our support in any efforts to secure the enactment of genuine progressive legislation." Senator Beveridge has been one of the leading progressive senators and voted against the Payne-Aldrich tariff law, notwithstanding that it was a republican measure and endorsed by a republican president. The action of the convention is looked on by his friends and associates as being complete vindication of his action.

AN EFFORT is being made to have Theodore Roosevelt visit the grain belt during the coming fall. Both Omaha and Des Moines have extended invitations for him to attend fall festivals and military tournaments. Colonel Roosevelt's plans have not yet been announced. He will reach New York about the middle of June and will probably be so busy for a few weeks, squaring himself around with political matters, that his plans for the future will not be announced early. There is some talk of Senator Elihu Root meeting Roosevelt at some European city and giving him a full report of political doings during the absence of the ex-president, so that Roosevelt may be in possession of the necessary facts before he returns. It was announced a few weeks ago that Gifford

Pinchot had been called to Europe to meet Roosevelt and while he did sail from New York, he has not yet encountered Colonel Roosevelt. It is considered highly probable, however, that the two will meet within a short time and that Roosevelt will be put in possession of the facts in the Pinchot-Ballinger controversy as Mr. Pinchot sees them. So many matters of political interest have occurred during Roosevelt's absence that his comment when he returns will be of the greatest importance. Until he does return, however, the ex-president announces that he will give out no statement whatever dealing with political issues or persons.

THE simplicity which characterized Grover Cleveland in life is being continued by Mrs. Cleveland, who has had the grave of her distinguished husband marked by a plain marble slab bearing the words, "Grover Cleveland, born Caldwell, N. J., March 18, 1837; died Princeton, N. J., June 24, 1908." No mention is made on the slab that Mr. Cleveland had ever been president of his country. The ex-president is buried alongside his daughter, Ruth, in a modest home lot. Mrs. Cleveland well knew that her husband would have wished it so, nothing being more disagreeable to him than pomp or bluster.

FOR the first time in the history of South Dakota the farmers of that state are asking for help in planting the crops. Farm hands have always been in demand during the harvesting season, but this year the early spring has rushed the crop planting and the farmers for a hundred miles around Fargo are sending in to the employment agencies urgent demands for laborers to assist them.

Lewis' Single Binder, the famous straight 5c cigar—annual sale (9,000,000).

OSGOOD SCALE
Pitless
Indispensable on every farm; saves the time and money you would spend on a public scale, and assures perfect accuracy always. Priced within your reach; good for a lifetime. Osgood Scale Co., Box 103 Binghamton, N. Y.
Write for Catalogue

Here's the Easy Way to Dig!
Iwan Post Hole and Well Auger does a day's work in two hours! Slips right through wet or dry hard-pan, clay, gumbo, sand or gravel with little exertion. Digs 3-ft. post hole in three minutes in any kind of soil! With cheap pipe extension you can dig 40 to 60 foot wells in a day. Works on only successful scientific principle. Name Iwan protects you against worthless imitations. Most dealers will supply you. If you can't, write us, enclosing his name and we'll send valuable FREE Book "Easy Digging" and name of nearest Iwan dealer. Address: Iwan Bros., Dept. 113 South Bend, Ind.

The Four and a Half Million "Bell" Telephones in This Country Are Western-Electric Telephones



The telephones that carry messages from New York to Chicago, from Boston to Washington—that transact the business of the large cities—all are Western-Electric telephones. Knowing this fact, would you, or anyone, buy any other instruments than

Western-Electric Rural Telephones

especially when they cost no more than inferior makes. In all respects they are the same as the "Bell" Telephones. Reliable instruments that you can depend upon are even more important for rural service than city service. You know the reliability of Western Electric Telephones—the world's standard telephones. What do you *actually* know about others? Don't let yours be the instrument to fail at some critical time in your local service.

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YOUR NAME AND ADDRESS WRITTEN IN THIS SPACE AND MAILED TO OUR NEAREST HOUSE WILL BRING COMPLETE INFORMATION

Name _____ Address _____

Booklet No. 30

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

EMINENT DOMAIN.

All property is held by the owner subject to that sovereign power which is called the eminent domain, or superior dominion, which is the right to take private property for public uses. This right is popularly supposed to have been conferred on the government by the people in the adoption of constitutions, but this is a mistake. The right or power is one necessarily inherent in sovereign government, whether it be monarchical or republican in form. It is more ancient than any written constitution. It is derived from the ancient *jus publicum*, by which all property was held subject to the will of the sovereign.

Constitutions neither create nor destroy the right of eminent domain. In the constitution of the United States, and of the various states, it is provided that private property shall not be taken for public uses without just compensation. It is universally held by the courts of every state, and of the United States, that this provision necessarily implies that private property cannot be taken for private uses at all without the consent of the owner, no matter whether there be just compensation or not.

The term "public use," is difficult of exact definition. It has been said by judges that "what is a public use under eminent domain statutes, may depend somewhat upon the nature and wants of the community for the time being." But a public use such as justifies the taking of private property against the will of the owner, cannot rest solely upon public benefit, or public interest, or great public utility. Something more than mere public benefit must flow from the contemplated use. Public benefit or interest is not synonymous with public use. In defining what is a public use, Judge Cooley, in his work on Constitutional Limitations, says, "That only can be considered a public use, where the government is supplying its own needs, or is furnishing facilities for its citizens in regard to those matters of public necessity, convenience or welfare, which on account of their peculiar character, and the difficulty,—perhaps impossibility, of making provision for them otherwise, is alike proper, useful and needful for the government to provide." The use must be for the general public, or some portion of it, and not a use by or for particular individuals. It is not necessary that all of the public should have occasion to use, but it is necessary that every one if he has occasion, shall have the right to use.

The right of the state to condemn private property for public uses, may be exercised by and through the agency of private corporations organized for private gain, such as railroad companies, canal companies, and the like. The uses to which such corporations put property, are deemed by law to be public uses, because the public, or such part of the public as has occasion to do so, may directly enjoy them upon the payment of uniform rates and tolls, although the enterprise is carried on for the purpose of private gain.

The tendency of many courts in this country, is distinctly towards an expansion of the doctrine of eminent domain, in favor of private corporations claiming to supply some pressing public need. Sometimes it amounts to an invasion of the private rights of a citizen, for the benefit of some other citizen or citizens. The movement of our present civilization is by companies and syndicates, and they generally insist on the right of way, against mere individuals.

LAW QUESTIONS CONSIDERED.

HOG-TIGHT FENCE.

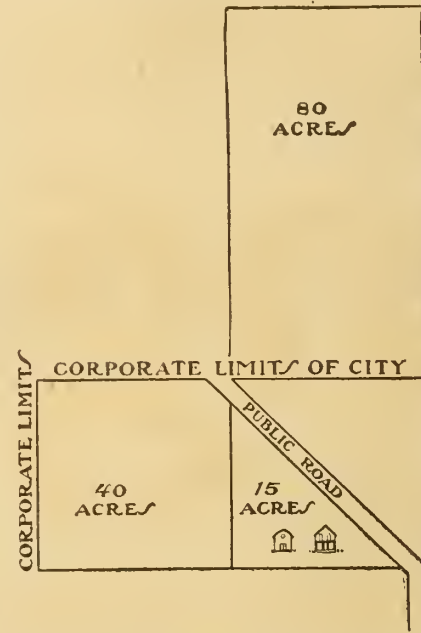
A Subscriber, Bronson, Kan.—A owns twelve acres of land close to town which he wants to enclose with a hog-

tight fence and use it as a hog pasture. It being now in grass. B owns adjoining land used for farming purposes. Can A compel B to make his half of the partition fence hog tight?

Answer.—He cannot, but he can make B's half of the fence hog tight at his own expense.

CITY TAXES.

A Subscriber, Woodstock, Ill.—I own 135 acres of land. Fifty-five acres of it is within the corporate limits of the city of Woodstock. My house and barn are located as shown in the diagram. All of the land has always been used for farm purposes and none of it has been subdivided or platted for city lots.



I receive no benefits from the city in the way of fire protection or otherwise, yet I have to pay taxes for city purposes on the fifty-five acres and also on my personal property; horses, cattle, machinery, etc. Is there any lawful way for me to avoid paying such taxes?

Answer.—We know of no lawful way by which you can avoid paying taxes for city purposes as long as your property is located within the city limits.

RURAL TELEPHONE LINE.

A Subscriber, Muscatine, Iowa.—Several years ago twelve or more farmers in this vicinity clubbed together for the purpose of building a rural telephone line. The agreement was that all members should share alike in the expense of constructing the line, which was accordingly done without objection from any member. There was no written agreement, no documents signed by any member. They have no lease of right of way where the line is constructed. Most of the line was run along the roadway; to save expense in several places the line was run through woodlot pastures and near partition fences of several members, at their own suggestion. Lately one of the members who owns a pasture through which the line runs, objects to its being there and threatens to force the rest of the company to remove it from his pasture. If this should be done, it will cause great expense to the company. Can he force the removal of the line from his fence?

Answer.—Probably not so long as he remains in the association, and receives the benefit of the telephone service over the line; but he can withdraw from the company, as it is nothing but a big partnership, and he can compel the others to remove the line from his land, or do it himself. The right to use his land for the telephone line is founded on nothing whatever, except his permission. This company has utterly failed to do business in any kind of a business manner.

U. S. HOMESTEAD ENTRY.

A Reader, Portage, Wis.—A young man went from Wisconsin to North Dakota about nine years ago, and took up a homestead. In looking up his age he found that he was not twenty-one years old when he took the homestead, so he dropped it—made no improvements—in fact, did not go to the land. Has the young man lost his homestead right?

Answer.—The young man has not lost his homestead right. He can enter a homestead anywhere that the government has land subject to homestead entry. There will be no increased expense on account of his first entry. He should, of course, tell the land officer where he makes another entry, all about his first entry.

TELEPHONE LINE—TREES.

An Illinois Subscriber.—I own a farm in Illinois. A public road runs through it. My dwelling house is on the south side of the road, and a small pasture is on the north side of the road. I have set out a dozen young maple trees along the pasture lot, just outside the fence in the edge of the roadway. Since

they were set out, a telephone company has constructed a telephone line directly above them—that is, the wires run along directly above the young trees. The wires are far above the trees now, but in a few years they will be in contact. Will the telephone company then have the right to top or destroy the trees?

Answer.—The company will have the right to trim off branches of trees which interfere with the operation of its line, using due care to do as little injury as possible to the trees.

LIMITED AGENCY.

A Nebraska Subscriber.—A and B are neighbors who live in the country not far from a certain town. A told B who was going to town, to go to C's store and get a sack of flour for A. When B went to town he bought the sack of flour for A all right, but also bought

at the same time from C about \$6 worth of stuff for himself and had the whole bill charged to A's account. Can A be compelled by law to pay this bill?

Answer.—Upon the facts above stated, A cannot be compelled to pay for anything in the bill except the sack of flour. B was not the general agent of A—had no general authority as agent, but was for the time being, a special agent, having limited authority.

PLANT INSPECTION.

A Subscriber, Colfax, Iowa.—I raise choice strawberries. Have I a right to sell strawberry plants to my neighbor without having them inspected?

Answer.—The law declares it to be unlawful to sell, or offer for transportation any nursery stock unless

Wasting Good Trees in Fence Posts

A farmer frequently uses his best trees for fence posts. That is a waste of good timber. The posts last only a few years. Then more trees must be sacrificed. And a decayed wood post will break under pressure of wind or shock.



Concrete Posts Last Forever

They are quickly and easily made with a simple outfit which will supply a whole neighborhood and make money in doing so. Write us for further information. It will be afforded any reader of this paper without charge. Our illustrated magazine, "Farm Cement News," will also be sent free on request—and regularly. Write to the nearest office of this company.

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Annual Output, 8,000,000 Barrels



P. & O. Riding Cultivators

The Hammock Seat style is the most popular type of Riding Cultivator made, and the

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has more excellent features than any other. The frame can be set to balance the driver's weight. Axles are relieved of all twisting strain. A feature appreciated by everybody is the Depth Regulating Lever on each rock arm, giving the gangs extra depth adjustment. In passing over dead furrows or ridges the depth of the gangs can be instantly regulated by fractions of an inch. This is one of the best devices ever put on a riding cultivator. Gangs are responsive to the lightest touch, and are as nearly self-balancing as it is practical to make them. Wheels have dust-proof hoxes and screw caps for the use of hard oil. Adjustable steel eveners. It is as simple, strong and rigid as a cultivator can be made, and has achieved a success never approached by any other riding cultivator. We also make a Jewel Surface Cultivator, perfect in every detail. All P. & O. Implements are Backed by an Unqualified Guarantee.

Insist on getting P. & O. Canton Plows, Harrows, Planters, Cultivators, etc. from your dealer. A Beautifully Illustrated Pamphlet, and a P. & O. Catalog, will be mailed free. Write today and ask for Catalog No. M 25

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Largest and Oldest Permanently Established Plow Factory in the World.

accompanied by a copy of the certificate of inspection made by the state entomologist or his assistants. Strawberry plants would be included in the term, nursery stock.

BREACH OF RENT CONTRACT.

A Subscriber, Litchville, N. Dak.—A rented 200 acres of land in North Dakota from B for five years and has now been in possession of it for two years. When A rented the land B agreed to build a granary on the place, sufficient to hold all the grain raised on the land. B has failed to comply with that part of the contract and no granary has been built. After the contract was made, B went to the old country, and returned the following spring, and B then said he would build the granary, but neglected to do so and went back to the old country and is still there. The rent is cash rent. Can A compel B

to build the granary, or in case he does not, can A build it and deduct its cost from the rent?

Answer.—B cannot compel A to build the granary, but A can build it and keep its cost out of the rent—then if B sues A for the rent, A can bring in the claim as an offset to A's suit, for the amount the granary cost.

PARTITION FENCE—TIMBER LAND.

A Subscriber, Wick, Iowa.—I recently bought twenty-five acres of timber land which was not fenced. I want to use it for pasture. There is a lot of timber land adjoining it which belongs to another man. Can I compel him to put in his part of a partition fence?

Answer.—If the timber land adjoining your timber land, is not used oth-

erwise than for the timber thereon, you cannot compel the owner to construct or maintain half of the partition fence; but if the owner uses it for other purposes, and derives any benefit or revenue therefrom, you can compel him to build and keep in repair one-half of the partition fence.

LAME CONTRACT.

A Subscriber, Holyoke, Minn.—There are three school officers in this school district, two of them being husband and wife. A made a contract with one of these—the husband, by which A was to dig a well to supply water for the schoolhouse, to furnish plenty of water for school use, and to curb it with good timber, and was to receive therefor the sum of \$65. The agreement was not in writing. A dug the well and a pump

was put in, and there is abundance of water, but it cannot be used for drinking purposes. They have tried to pump the well out, but cannot do so. The husband and wife as school officers refuse to pay A, but the other officer is willing to pay him. How can A get his pay for the job?

Answer.—It is doubtful, at least, whether the contract between A and one of the school officers is a valid contract. The contract should have been made with the school board, as a board, and not with one of them only. The parties will most likely differ about the exact terms of the contract. The only way for A to test the merits of his case is to bring a suit against the school district for his money.

\$50,000 Guaranteed



King

Lightning Rods

Are The Best in The World

They are endorsed by all scientists, experts and experienced building contractors; they are of that practical system endorsed by the United States Government—used on the White House, the buildings of the War Department and other Government buildings throughout the country. My cables are practically pure copper, assaying over 99 per cent, full thirty strands to the cable.

Every upright is copper, tipped with nickel; my aluminum weather vanes are made from my own designs and are beautifully ornamented with gold leaf.

The finish and appearance of my lightning rods is beyond criticism. Every connection is perfect and accurately made.

Don't have your family or yourself suffer the fear and dread of thunder storms this spring and summer. Weather forecasters predict many severe electrical storms.

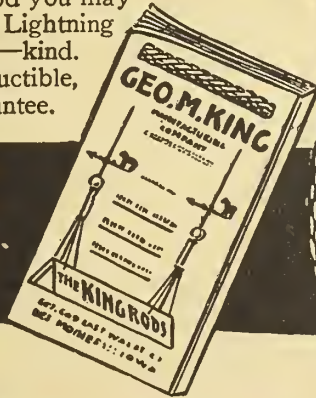
Have your home and other buildings equipped with King Lightning Rods before this storm period begins.

Enjoy security and peace of mind from the fact that all you own is free from danger; that wherever lightning may strike, it cannot harm you or yours. Whatever rod you may have in mind—see mine first and remember that perfect as King Lightning

Rods are, they cost no more than the ordinary—often inferior—kind. You pay for them once—the first cost—and they are indestructible, lasting a lifetime, are backed by my \$50,000 Gilt Edged Guarantee.

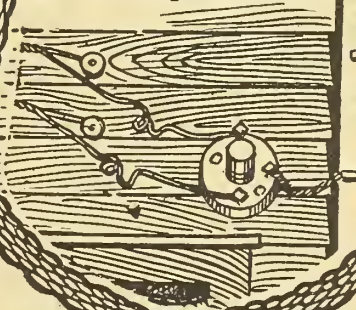


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King's Lightning Arrester

Saves your telephone from damage by electrical storms. The King Lightning Arrester is easily attached to the side of the house and connected to your telephone wires and then to the King Lightning Rod relieving it from all danger. My catalog tells all about it.



I Want 2,000 Farmer Agents

Men who are acquainted in their community; men who have time to enter a profitable arrangement with me, whereby they can earn from \$1,000 to \$3,000 for a few months' work. If you have rented or sold the farm, or have any spare time, or if you don't like your present occupation and want something that is easy, profitable and interesting, here is a real opportunity. I only want representatives in places where I have no selling arrangement. Write me a letter today and say how much time you can give me. You will hear from me quickly with an interesting and profitable proposition. Do this now while it is on your mind.

**Geo. M. King, President,
Geo. M. King Manuf'g Co.,
701 E. Walnut Street, Des Moines, Iowa.**

Iowa County Court House was struck by lightning, but is now protected by King Lightning Rods.

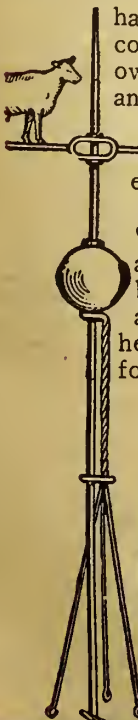
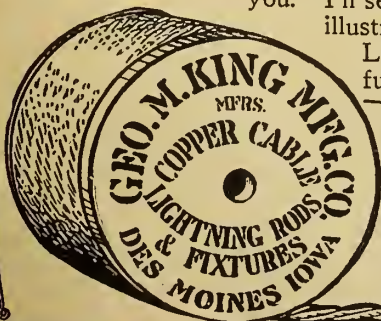
Hundreds of school houses, churches and public buildings are rodded with King's Copper Cable Lightning Rods because they are recognized to be the best.



See Your Dealer---

and tell him you want King Lightning Rods—the best. He knows there are none better at any price and I believe he will be honest and tell you so. If he has no King rods in stock and won't order them for you, then write me. I'll tell you who will supply you. I'll send you my free, illustrated book of

Lightning Facts, full of interesting, valuable information about lightning. Insist on King Lightning Rods and refuse substitutes.



HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A SANITARY MILK PAIL.

The accompanying illustrations show in a very forcible way the manner in which contaminating materials find their way into milk during the milking process. These are taken



Fig. 1.

from a late report of the Bureau of Animal Industry. According to this report, tests made with open and covered pails in a stable, indicated that there were thirty times as many organisms found in the uncovered milk as were found in milk drawn into a covered pail. We do not vouch for the practicability of the pail in the illustration, with a curved top, be-



Fig. 2.

cause there is a little doubt in our mind about the top interfering with the milking process. We can imagine, however, that even a partial top might be of great advantage in keeping out contaminating materials.

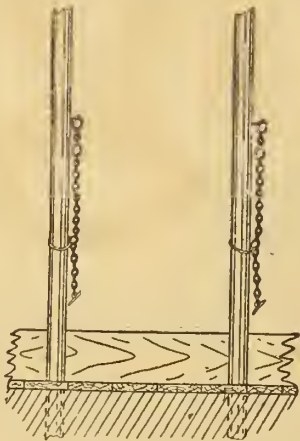
A Cow Chain Tie.

Many systems have been tried for fastening cows to secure sanitary milk. Ties, rigid and swinging stanchions, stalls, and the open-shed system have been resorted to and are still being used. The method of fastening dairy cows which best meets the demands of the dairy and pure food laws is the stall. The stall must be sanitary to be a success. Stalls are of many different types, but to be sanitary they must be constructed so that the cow will be comfortable and at the same time not be forced to lie down in her own filth. A prominent authority gives five things to be accomplished in cow-stall construction. (1) It should keep the cow clean. (2) It should make the cow comfortable. (3) It should be convenient for feeding, milking and cleaning. (4) It should be inexpensive. (5) It should hold the cow securely.

The cow's health should be considered when choosing a method of fastening. It is undesirable to place cows in rigid stanchions since they do not have the freedom of their heads

obtainable in a stall. Compelling a cow to lie in a cramped position is not conducive to a gentle disposition. Such a disposition is found in those individuals producing the largest returns for food consumed. A stall which most nearly approaches perfection is one in which the cow is permitted to have the same freedom she has when lying in the field or paddock. This height of perfection is difficult to obtain.

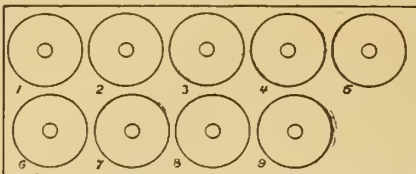
The simple chain tie shown in the illustration, which has long been



used, is more humane than the rigid stanchion. The chain here shown is attached to a ring which slides on the upright post and is fastened around the cow's neck with a toggle link.

A Corn-Testing Device.

A subscriber from St. Charles, Iowa, sends a description and illustration of a very simple seed corn-testing de-



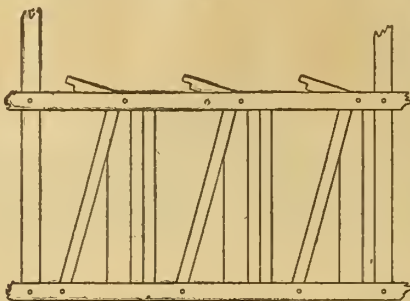
vice. It is made of an inch board, into which is bored a number of inch and a half holes, as shown in the illustration.

The holes must not be bored quite through, but far enough so that the screw on the augur will make a small

hole through the board. Now place board in shallow pan, which must be waterproof. Place kernels from ear No. 1 in hole in board No. 1 which has previously been numbered. When filled in this manner, pour enough warm water in to come nearly to top of holes, being very careful not to put in so much that the corn will float from one hole to the other. Let it remain for twenty-four hours, then raise board from pan to remove the water and place board back in pan again and cover with damp thick cloth. Keep in a warm place for three or four days, when you can note the strong germinating ears, the weak and the dead ones. The cloth should be kept moist; in fact, wet it every day.

A Plain Cow Tie.

The accompanying illustration may be of some assistance to those who are obliged to construct the ordinary system of stanchions for cows. Up-to-date dairymen, however, are unani-



mous in condemning this type of stanchion, because they are uncomfortable and afford little freedom for the animals, because at no time is it possible for the cow to get herself into a natural position while lying down. All materials in this kind of a stanchion should be at least two inches thick because it sometimes happens that when a heifer is put in the first time she is a little unruly, and unless the materials are strong they are apt to give way somewhere.

The "college farmer," sneered at a few years ago as a mere theorist, unable to make a living off the land, is much in demand nowadays, says a daily paper. Prof. George Severance, of the agricultural department of the Washington State College, was drawing \$2,000 a year for his duties as instructor at the college, but has resigned to become a farmer. He is to take charge of three farms just beyond the boundary line in Canada, and is to receive a salary of \$3,000 a year, with all of his expenses paid, and is also to have an interest in the profits. An automobile is to be provided for his use in running round his work on the farms.

YOU can easily make a mistake in buying Paris Green, or Arsenate of Lead for spraying trees.

The name of the maker is a more important thing for you than the name of the thing. All Paris Green is green, but not all of it does the business.

You'll be safe if you ask for C. T. Reynolds Paris Green; it's a reliable product; the pure, strong, deadly kind.

Devoe Arsenate of Lead is best for spraying trees. Paste, ready to dissolve in water. Not injurious to the trees.

Ask your dealer for Devoe; take no other

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HOG RAISERS, ATTENTION!

Is it worth 4 cents per head per year to have your hogs free from lice and other profit-eating parasites? Send me your name and let me tell you how my **RUBBING POST** will do this. Cheapest and most effective method in use. No labor required. Works the year 'round. Not dangerous to heavy brood sows. Write for price and description.

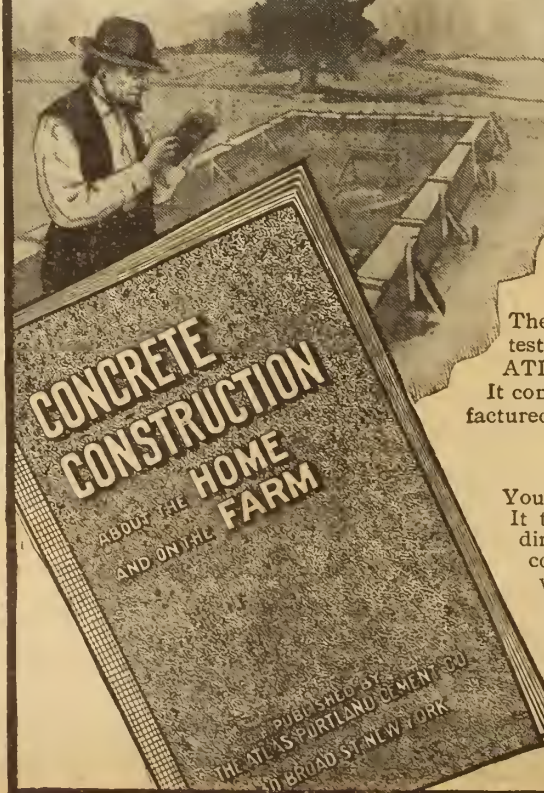
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"MORE POTATOES"

From ground planted secured by use of the **KEYSTONE POTATO PLANTER** than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for catalog, price and full description.
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Barn Foundation



Build With Concrete

As lumber grows dearer, year after year, concrete takes its place as the farmer's building material. Many progressive farmers are now building all outbuildings with concrete, as well as drinking-troughs, fence-posts, walls, porches and cellars, and dry walks around the farm.

Concrete cannot burn; it never wears out; is always clean; never requires repairs; and many of the small improvements you yourself can build.

ATLAS PORTLAND CEMENT

Makes The Best Concrete

The standard American brand of cement is ATLAS. It stands every test for composition, fineness, color and strength. ATLAS Portland Cement is made of genuine Portland Cement rock. It contains no furnace slag. There is only one quality of ATLAS manufactured—the best that can be made and the same for everybody.

Write Today for FREE Book

You will need our book—"Concrete Construction About the Home and on the Farm."

It tells how to make and use concrete, and all its directions are in plain and simple language. It contains 168 pages and 150 pictures. In it you will find plans, diagrams and specifications for concrete stables, chicken-houses, cellars, steps, fence-posts, barns, and other farm structures.

This book is free. Write for it today.

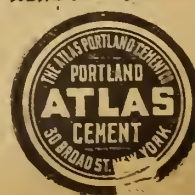
Ask your dealer for ATLAS. If he cannot supply you, write to

The ATLAS Portland CEMENT Co.

Dept. 111 30 Broad Street, New York

Daily Productive Capacity Over 50,000 Barrels—the Largest in the World.

NONE JUST AS GOOD



FEEDING STEERS FOR PROFIT.

(Continued from page 7.)

cline and the same may be said of all foodstuffs.

The year just past, 1909, is claimed by some authorities to have been on the whole one of the most successful that cattlemen have experienced for years, and the average of \$6.35, we know is the highest average price for a year's beef production on the open market. Even at that, it is claimed that feeders who attempted to long feed cattle lost money, or at least, did not realize as much as in some former years, but short-fed and grass cattle made good money. The factor entering into the working out and determining of the above is one that is quite popular in print now, and one quite in evidence on the market at the present time. When beef reaches a certain price the demand for real prime cuts drops, and passes down to the cheaper grades. This means the prime beef prices drop and the cheaper grades rise in price, and there is not the proportional difference in the prices of the different grades. For example, some time ago the University of Wisconsin had on the market nine steers, some of which were prime—some not. However, they were all good steers, and sold for \$7.65 per hundredweight. Steers which would take over 100 days to get into the same condition (if they were of the same quality—which they were not) sold the same day for \$6.50 per hundredweight—a difference of \$1.15 per hundredweight. Had good steers been selling at \$6.50, the poorer grade would have been dear stuff at five cents and might have gone begging for \$4.50, as butchers would then not want to take them on.

In this connection, it might be of interest to the reader to note gains made by the steers fed at the university the past winter. For class-room work during the judging courses, nine steers, three Herefords, three Aberdeen Angus and three Short-horns were selected and brought to the university and weighed up October 28, 1909. They were put into a small grass lot and for a period of about two weeks, were fed about six or seven pounds ground corn and bran mixed equal parts by bulk, twice daily. Along with this they ate some corn stover and hay.

Then after two weeks they were turned into the feed lot or paddock and up to Christmas were fed eight pounds of the mixture twice daily and fifteen or twenty pounds of roots.

From Christmas to the time they were sold—March 7, 1910,—they were fed fifteen or sixteen pounds of ensilage, twelve pounds mixed hay (clover and timothy—alfalfa when possible), eight pounds of mixture of bran and corn meal.

The above were fed twice daily—morning and night. In addition they were given some corn stover at noon.

The individual and total gains were as follows:

Steer	Breed	Net lbs. Oct. 28, '09.	Net lbs. Mar. 7, '10.	Gain lbs.
1	Angus	1,055	1,345	290
2	"	1,066	1,319	253
3	"	993	1,225	232
4	Hereford	1,094	1,390	296
5	"	1,093	1,322	229
6	"	1,076	1,250	174
7	Short-horn	1,230	1,560	330
8	"	1,215	1,504	289
9	"	1,270	1,629	359
		10,092	12,544	2,452

Steers No. 7 and No. 1 were considered the best in the bunch and when shipped were in prime condition. However, on the market the three Short-horns were considered the three best sellers, due to the fact that they were older and heavier; and to sell proportionally well, lighter and younger steers must have considerably better finish and quality.

The steers gained better than two pounds per day for the entire period, which was good, considering the fact that the steers were often in the class room and very appreciable shrinkages were noticed following those periods. The steers sold for \$7.65 per hundredweight and within five cents of the extreme top for the day they were sold. They would have sold better, but were not of uniform quality, type,

age and size, ranging from fair to prime in fitness. Eight of the steers are shown in an accompanying cut.

The Hereford shown in the accompanying illustration is one which was owned, fed and sold by the university some years ago and represents a steer of remarkable quality and smoothness of finish for an animal of his age and weight. He was past three years of age and weighed better than 2,100 pounds when the picture was taken. When sold he, with his Short-horn mate, topped the market several points. He represents a type not in favor on the market, being too heavy for dressed beef trade in large quantities. A few, however, sell well, but the demand is easily filled. The feeder should not lose sight of quality to start with and finish fitness to end with. The last 100, 150 or 200 pounds of gain are expensive, but increase the value of every pound in the entire carcass.

PREPARING CORN GROUND.

To the Editor of The Homestead:

Many a fellow has to "hop clods" all summer while cultivating his corn crop simply because he does not properly prepare the ground before planting. He fumes and frets and works hard all summer, then wonders why his corn did not yield more to the acre. Two words explain the whole matter, "poor preparation."

I believe the farmer should study

how to prepare the soil for his corn crop the same as a merchant studies how to best prepare his goods for market. By studying the best methods of preparing his soil for seed he is better able to lay hold on the laws of nature and make them serve him.

In the first place the corn ground should be cleared of all grass, weeds and stalks. All grass and weeds can be burned by setting fire to them when they are dry. In many places where the corn stalks are very heavy they are raked and burned. I remember that when a boy a horse would be hitched to each end of a sixteen-foot pole when the ground was frozen and brother and I would jump astride the horses and down the corn rows we would go snapping stalks at a rapid rate. They would break easily when the ground was frozen very hard. Then we would rake them up and burn them before plowing the ground. To rid the ground of all trash was our idea so that the soil would cultivate easily. But these are the days of the stalk cutter and many farmers use them to cut the stalks in the spring of the year. I believe it pays the farmer to rid his field of all foul material unless he can plow it under so deep it cannot be reached with the cultivator shovels.

The corn ground should never be broken when it is wet and soggy. It is sure to bake and become lifeless and often very cloddy. I remember one spring a neighbor became very

anxious to get in his corn. He plowed his ground while it was very heavy. The corn was planted or mudded in. Then the weather turned off dry, and he had a time cultivating that patch of corn. I remember going by his field one day, and it seemed to me he was doing nothing but rolling over the clods. It was some time in May before sufficient rain came to mellow up his clods. Of course, his corn crop was short at harvest time. My experience has proven that it is best to plow when the soil is light and loamy. It will easily pulverize and be left in a first-class condition to receive the seed. I have found that it is a good plan to harrow lightly what has been plowed each day. Some farmers even keep planted up with the plow and I think this a very good plan, although I have never pursued this method.

I have pursued this method very satisfactorily. After the field had been plowed I put down a drag and smoothed it down, then with a harrow the soil was stirred. The harrow was followed by the planter, and there were seldom any grains left exposed for the birds to devour. If impossible to get the soil perfectly smooth before planting, I generally harrowed just after the planter or when the corn was peeping through the ground. A roller just behind the planter is beneficial if the soil is cloddy.

Early plowing of corn will help to keep the soil mellow and in first-class condition.

W. D. Neale.



Struck By Lightning Life and Property Wiped Out in a Flash You May Be Next

This is by no means an uncommon occurrence. Every electrical storm is dangerous. When you have worked and saved for a lifetime to own property, the sensible action is to put it beyond the risk of danger. Insurance never brings back all that is destroyed by lightning; fire protection cannot save your house, buildings and contents from damage by storms. Hawkeye 99% Pure Copper Cable Lightning Rods guarantee protection. They do not remove the cause of danger—but do absolutely prevent the effect. You know of losses in your own locality caused by lightning. You have often thought "suppose it had been my home." It may be your home next. Prepare for safety now. Don't wait another day. Remove the risk, the fear, the worry. Free yourself from the dangers of lightning and let our

99 Per Cent Pure Copper Cable Hawkeye Lightning Rods Protect You

This 99% Pure Copper Cable is made under our direction in our own factory. We know by comparison and test that it is the best, strongest and most perfect lightning conductor ever made. It has stood the test of the most severe electrical storms—has saved millions of dollars' worth of property. Better be at the expense of rodding your buildings than to lose them. Better have Hawkeye Lightning Rods and know you are safe than some other rod and hope you'll escape danger. Our agents are experts—are thoroughly trained and reliable.

Remember Our Guarantee is Bonded

We guarantee any building equipped with Hawkeye Lightning Rods in conformity with our specifications to be free from danger from lightning. The Citizens' Saving Bank, of Riverside, Iowa, bonds us and guarantees payment on this guarantee, with 6% interest from the time of such payment.

Ask Our Agent in Your Town

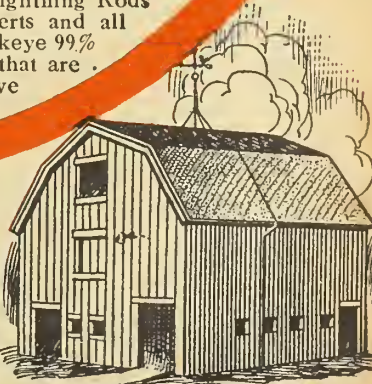
He'll tell you and show you why Hawkeye Lightning Rods are the best—why they are endorsed by experts and all who know. He'll show you the same Hawkeye 99% Pure Copper Cable Lightning Rods that are protecting many a farmer today. If we have no agent in your town, write for bookle.

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We want you to act as our agent if we have no agent in your town. If you are reliable and have a wide acquaintance you can make good money. Our proposition is attractive and we will refer all inquiries from your territory to you. This will help you into a business with a real future. We have hundreds of agents that are building up a splendid business for themselves. You can do the same. Write us at once for plan.

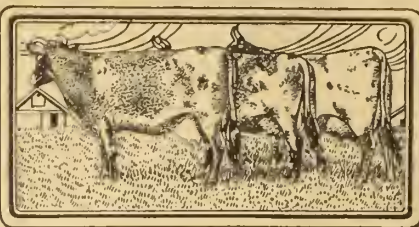
Write Today
For our book of statistics and information—
"all about lightning."

Hawkeye
Lightning
Rod Co., Dept. 3, Riverside, Ia.



October 21, 1909.
Riverside, Iowa.
Gentlemen:—

The sample of Copper Cable, left by you for analysis, proves to be VERY PURE, as it is found to contain 99.65% metallic copper.
Yours respectfully,
WILLIAM J. KARSLALE,
Chemist, State Univ'y of Ia.



ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

DELAY IN REMOVING MILK FROM STABLE.

There has been a very marked change in the attitude of people in general toward clean milk in the last twelve months. Towns and cities have become aroused on the subject and as a result many ordinances have been passed absolutely making it compulsory for dairymen to comply with certain principles of cleanliness in their operations. The agitation is rapidly educating people so that sooner or later the dirty dairyman will have to get out of business because he will find that he cannot market his products in competition with those who furnish only clean, pure milk.

One of the best known methods or means of contaminating milk is to allow it to remain in the stable for a considerable time after it is drawn. This subject is touched on by Professor Woll in his book dealing with the principles of modern dairy practice. Among other things Professor Woll says:

No matter how carefully the precautions given concerning the treatment of the milk are observed, the milk is always threatened with infection from many sources as long as it is in the stable. The fact that milk when drawn from the udder has a temperature highly favorable to the development of the bacteria, and that it is a splendid nutritive medium for the large majority of bacteria, makes the matter worse. It is plain, therefore, that the milk ought to be removed from the warm stable as soon as possible. On most farms in our country an entirely different practice is followed. When a cow has been milked or the milk pail is full, the milk is poured into a large transportation can, at the opening of which a strainer is placed. As this does not allow the milk to run through very quickly, and the opening of the can is usually comparatively small, the milk must be poured slowly from the pail. The milk is usually left in the can until the whole herd has been milked, and it is then removed from the warm, foul air in the stable. This manner of procedure is very deleterious to the quality of the milk. It is exposed to air filled with all kinds of contagious organisms, and is left to remain in the stable an hour or still longer; this is so much the worse since the transportation can is often not perfectly clean. I am fully convinced that diseases of milk with us are most frequently caused by irrational methods of procedure like those mentioned. Fortunately, it is very easy to change this method so that it becomes, if not perfect, at any rate far better. First of all, the milk must be removed from the stable as soon as possible. Further, the milk ought not to be strained in the stable, but in a separate room nearby, where the air is pure and fresh, and where cleanliness is observed in the most scrupulous manner. Such a room ought to be found in connection with every cow stable. It must not be placed in the neighborhood of the manure pile, and is to be provided with large windows, but may otherwise be built very plainly. It is a good plan to keep the basin for washing of hands in this room, so that this operation may be performed after each cow has been milked.

While it is desirable that a special room be set apart into which the milk can be taken immediately after it is drawn, yet as a matter of fact, this is not always practicable where only a few cows are kept. In that case the precaution should be taken to place the milk outside the barn or stable. It requires very little time after each cow is milked to step to the door and strain the milk into another vessel. The straining in a clear, pure atmosphere will tend to aerate the milk so that such stable odors as have been absorbed will be eliminated. This plan should be carried out whether the milk is for sale directly or marketed in the form of by-products, or on the other hand, consumed by the family. This practice will be found to add greatly to the keeping qualities of milk and those who are having trouble about their milk souring too soon should not be contented until they have thoroughly tried out this plan of removing the milk from the stable as soon as it is drawn and straining it into a separate vessel in the open air.

The Farmers' Creamery

By Fred Stuble

A QUESTION often asked is, "How shall we organize and manage a farmers' co-operative creamery?" Creameries can be classed as co-operative and private. Co-operative creameries are those owned and operated by the farmers themselves. The private creameries are those owned by private individuals who assume all risks and responsibilities and who, after deducting all expenses and what they consider to be a fair profit, pay the patrons market prices for their butter fat.

The first essential of a successful creamery is patronage. In organizing, the value of the shares should be fixed not to exceed \$10. This will make it possible for every farmer or producer to become a shareholder and when interested to the extent of holding shares in the business he will have less chance for dissatisfaction. There have been many mistakes made in the past in organizing farmers' creameries by selling shares to non-producers and by charging a fixed amount for manufacturing, making this so high as to make it possible to pay dividends in some cases as high as 35 per cent. The producer, unless he be a very large stockholder, will not stand for any such dividends. He will, of course, realize that the dividends are not coming by reason of any particularly good management, but on account of a high rate being charged for the manufacture of the butter. This will simply mean that he is being taxed, indirectly, to swell

the dividends and to permit the publication of glowing reports.

The capital stock should be sufficiently high to build and completely equip the creamery and still have a little working capital left. Right here is where many a co-operative creamery has failed. There is a rival in the field known as the centralizer and we have found many a creamery put out of business just for the lack of a little working capital. Centralizers have sent their agents into these communities and have offered a little above market for butter fat, have paid every day, once a week or twice a month and have, in the end, forced the local companies to the wall.

The majority of the patrons of creameries are more or less dependent upon their cream checks to pay the running expenses of their farms and households. This is one of the points which the co-operative creamery managers must recognize if they are to compete successfully with the centralizers. We must install the daily system of testing and must pay every week or at least every two weeks. Where patrons can ship their cans of cream and in a few days receive their checks it is hard to make them look enviously upon an increase of two cents per pound for butter fat, knowing that they will have to wait two weeks or a month for returns. What the average patron wants is cash. Many patrons, and to their own loss, scarcely know the value of the products they sell. They do, however, know and appreciate

prompt payment. Most of our co-operative and a large number of the private creameries are dependent upon the sales of butter to pay the running expenses and the price of raw material. Unless a working capital is subscribed it is self-evident that the management will be much handicapped in competition.

Prompt payment involves the daily listing of cream and here again many managers balk. They argue that this takes too much time, but I contend that no system is complete without a knowledge of daily receipts and expenditures. To my certain knowledge no creameryman with whom I have been acquainted who once adopted daily testing ever went back to making monthly and semi-monthly tests.

We should charge just enough for manufacturing to cover running expenses and at the same time pay a fixed amount of interest upon the

money invested. If dissatisfaction ended with a loss of a customer's patronage all would be well. He, however, complains of how much he has had to suffer and soon spreads distrust and dissatisfaction among the other patrons. Like a worm in the core of an apple he continues his work—partly concealed, yet always in evidence.

Another point which we cannot afford to overlook is the natural jealousy of the average farmer over the success of any business in which he is not directly interested. Now as the patrons are the foundation of the creameries, great pains should be taken to properly equip them with a working knowledge of creamery practices so that they may make the largest profits possible. Of course, a large proportion of the creamery patrons make the serious mistake of supposing that their profits must very

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Which will you try, 30 Days' Free or 90 Days' Approval Test?

—Any capacity from 200 to 950 pounds per hour, according to your needs, and I'll save you from \$25.00 to \$50.00 on the price.

—The only Separator whose gearing runs in a "Bath of Oil" like a \$5,000 automobile—Feature worth \$50.00 alone.

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—Is as handsome a machine, compact and substantial, as you ever saw or could find. Beautiful finish.

—Let me send you my Big New Separator Book—post paid—Free, so you and your wife and the boys and girls can talk it over and then try one of my separators under my easy plan for you to do it. You'll call it the best if you test it alongside any of the highest priced \$85.00 and \$110.00 separators sold by anybody today—makers—catalog houses—dealers—jobbers or anybody else. Write me today.

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largely come from the creamery end. They forget that to make a nice profit at the creamery one must produce milk properly and economically. They are always looking at the prices paid for making the butter, thinking the expense lies there. This is not true, the real expense lies at the farm in producing the milk and getting it to the creamery. There seems to be a serious lack of knowledge concerning the most economical methods of producing milk. Our men do not know what are the right kind of cows with which to produce high standard milk in sufficient quantities to make the cost low per cow. They do not know what are the best feeds to be used in the economical production of milk.

Harmonious and successful co-operation—the kind that outlives the enthusiasm of the first season is what we wish to establish. There is no question but that co-operative creameries are easily the most successful providing harmony can be maintained. A co-operative plant does not depend upon one individual, but upon the patrons as a whole.

In selecting officers we must demand in them honesty, courtesy, tact and perseverance. We must educate the patrons upon such factors as over-run, quality, creamery losses, variations in tests and give them as far as is possible a knowledge of the management of the business. Every creamery should prepare a yearly report setting forth the names of each patron, the number of cows in his herd and if possible the cost of their yearly keep. This report should also tell whether or not silos are used, the milk and butter yield per cow, the average price for which the butter sold for the year and the amount received in cash for each dollar spent in feed. Such a report would show each patron just what his and his neighbors' cows were earning. By it he could compare his own work with that of his neighbor's and see whether or not his ideas were as up-to-date as they should be. Such a report as this would act as a stimulant to dairy farmers. Creameries, the managers of which prepare such annual statements are found to be the most successful.

THE GREAT JERSEY RECORD.

To the Editor of The Homestead:

I am here pleased to report the record of the Jersey Cow, Glenida's Baby 204770, owned by Mr. W. L. Hunter, of Nebraska. This record stands high among the great performers of the breed and but half a dozen have exceeded her. It leads the highest record ever reported in the state of Nebraska by over 100 pounds of butter and is a performance of which any breeder can well be proud.

This cow is seven years and one month old, so that she freshened when six. The picture hardly does



her justice, as she is really a cow of fine type and well proportioned. Her breeding might be termed of the St. Lambert and Combination strains. She has had but two calves. With her first calf, she milked three years and with the second calf made the splendid performance here recorded:

RECORD OF THE JERSEY COW, GLENIDA'S BABY.

Date.	Milk.	Test.	Fat.	Butter.
1909.				
Mar. 12-Apr. 11	1,398.4	5.30	74.12	86.47
Apr. 12-May 11	1,385.4	5.43	75.22	87.76
May 12-June 11	1,485.5	5.07	75.30	87.85
June 12-July 11	1,280.5	5.06	64.79	75.59
July 12-Aug. 11	1,135.1	5.765	65.44	76.35
Aug. 12-Sept. 11	987.0	5.10	50.34	58.73
Sept. 12-Oct. 11	999.2	5.326	53.21	62.08
Oct. 12-Nov. 11	964.7	5.92	56.92	66.41
Nov. 12-Dec. 11	846.9	6.12	51.82	60.46
Dec. 12-Jan. 11, 1910.	833.3	6.19	51.58	60.18
Jan. 12-Feb. 11	854.6	5.82	49.73	58.02
Feb. 12-Mch. 11	719.7	6.00	43.18	50.37
Total	12,890.3	5.59	711.65	830.27

The estimated butter in this record is figured on the basis of a 16% per deserved defeats which are naturally the lot of any man who exhibits his

cent over-run, which is the experiment station standard. Figured to the 80 per cent basis, which is often given would be 853.9 pounds of butter. This record was made under conditions which could be duplicated on almost any farm.

No special care was given the cow, but as Mr. Hunter reported she took her care with the balance of the herd, but naturally she was given more feed, as her capacity gave evidence that she could handle it well. Mr. Hunter has submitted the following report concerning the amount of feed consumed by his cow. As all feeds were weighed, the record may be considered quite accurate. He has used for values what he actually paid for feed and where forage was grown on the farm has figured its actual cost of production.

Ground corn	3,326 lbs.
Bran and ground speltz mixed	1,135 "
Ajax flakes	600 "
O. P. oil cake	813 "
Sugar	100 "
	6,524 "

COST.

Corn, speltz and bran, cost per lb. 1c, 4,611 lbs.	\$ 46.11
Ajax flakes 600 lbs. at 1½c.	9.00
Oil cake 913 lbs. at 1½c.	13.69
Sugar 100 lbs. at 4c.	4.00

Alfalfa hay 4½ tons at \$5 per ton	\$ 22.50
Pasture 4 months at \$1.50 per month	6.00
	\$101.30

Mr. Hunter reports the cream sales from his cow brought \$250.00. This gives a net earning of nearly \$150.00 over and above the cost of feed. Allowing her a fair value for the skim milk, fertilizer and a most magnificent calf, this cow certainly was a money maker. Had her milk been sold on the Lincoln market at the average price of eight cents per quart, the product would have brought \$490.40. Several of the Lincoln dairies have been selling, during the year for ten cents and surely such milk as this cow produced was well worth ten cents. On such a basis her earning would have been \$613.00 for the year.

Of the great records made, but few have equaled the performance of this cow and as she is so soon to freshen, her record does her even more credit as it was made under conditions which every breeder wishes his cow to perform.

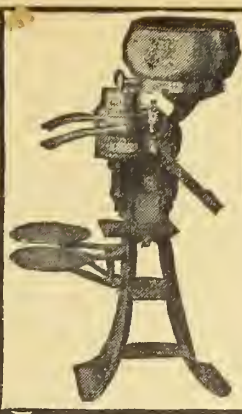
Much care was taken in verifying this performance and the dairy department of the experiment station sent several representatives to weigh and sample the milk during the different periods of the test.

A. L. Haecker.

Nebraska Exp. Station.

THE SHOW RING FOR DAIRY CATTLE.

The show ring was once held to be a thing quite apart from dairying. Some dairymen seemed to argue something after this fashion: "The show yard is a lottery and showing is a gamble. It's all right for a breeder of beef cattle to fit up his herd and show the public what he is capable of doing in the line of breeding and fitting cattle. It is, however, quite another matter for us to curry up our dairy herds and take them to the fairs hoping that the judges will select the best animals. Dairy qualities are seldom apparent to the eye. They are only demonstrated before the milk pail, the spring balance and the Babcock tester." The men who have held these opinions have failed to recognize any difference in judges and it would seem have taken for granted that practically all high producers are unsightly or at least too unattractive to win in a show ring. They have been unwilling to accept any un-



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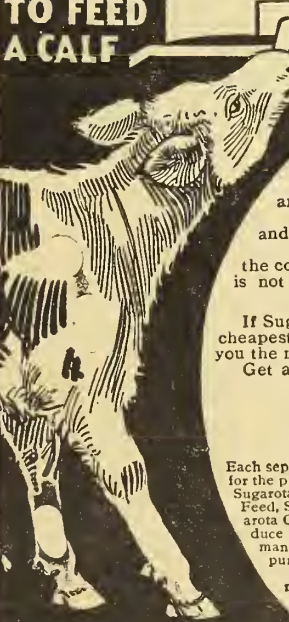
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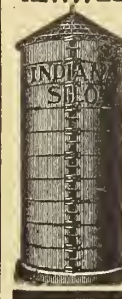


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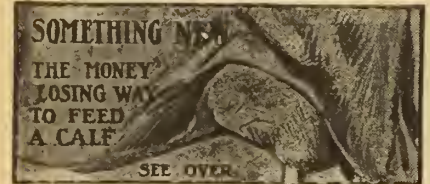


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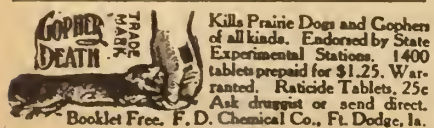
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stock. They have, in consequence, sacrificed the many advantages which would be theirs were they to display their herds before prospective buyers and the public in general.

Prof. Hugh Van Pelt, the state dairy expert of Iowa, is fully committed to the plan of exhibiting dairy cattle. He knows that the progress of dairying in his state depends in no small measure upon the wholesome advertising which the dairy breeds are given. He realizes that the show ring may be made a powerful publicity agent. In a recent address before the Wisconsin Dairymen's Association he made this plea for the show ring:

I believe there is value in show-yard records, even for dairy cattle. Possibly there is more value in milk and butter records, but even at that I am certain there is also something to be gained from the show rings. Exhibiting fixes type and uniformity. It establishes type of form and conformation which we wish to breed to and as has been demonstrated by Colantha 4th's Johanna, Jacoba Irene, Missie of the Glen, Rena Ross and other famous cows, a cow does not have to be broken-backed or have tilted udder or a lot of other unsightly faults in order to make a big record.

Last year at the National Dairy Show I asked the judge of Jerseys, "Suppose Jacoba Irene was led into the ring alongside of your show cows and had not had the misfortune of knocking her hip out of shape, what could you do with her?"

He said, "What could I do with her? A cow with such individuality, such form, I could do nothing but put her clear to the top." These cows that have made phenomenal records conform to types which we desire in the show ring, and undoubtedly they would be to recognized by expert judges. There is value in show-yard records that is realized when we consider the great advantages the beef breeder has had over the dairy breeder through the publicity he has had from his animals. The beef cattle raisers' animals have been shown in their best form to the farmers of the country and consequently these men have in turn favored beef rather than dairy cattle.

Many of you probably have read that nobody should buy even a beef bull that was too fat. We are told they should be bought in poor condition, but I want to tell you I have seen a great many expert breeders of cattle select and buy bulls to put at the head of their herds, and I have yet to see the man who would go and buy a sire that was poor in flesh, even though he himself had talked hour after hour telling the other fellow not to buy a sire that was fat. Why does he do that? Because, when he sees the two animals together, the one in good flesh and the other not, he is displeased with the one and pleased with the appearance of the other, and consequently he selects the fatter beast, and that is exactly what you will find the great majority of men doing. If you take two cows and put them side by side, both of them equally good from the standpoint of milk and butter-fat records, you will find that the man who is going to buy one of them will always choose even at a higher price the animal which has the appearance of beauty, as well as utility.

Publicity, if it be of the right sort, is certainly helpful and advantageous in the breeding of dairy cattle. It does not matter what peculiar merits a breed may possess men must be acquainted with these characteristics if it is to increase in popularity as it should. The show ring is one of the means of acquainting the public with the characteristics of any breed. Our fairs and expositions may and, we believe, will need to be modified to better meet conditions but the show ring has been, is and will be a mighty factor in the breeding of both beef and dairy cattle.

LOCATION AND CONSTRUCTION OF DAIRY BARN.

To the Editor of The Homestead:

In many cases the ground available must be utilized, and a consideration of the selection of the site is impracticable. Where selection is possible it should be remembered that the healthfulness of the soil varies inversely with the amount of moisture it contains. Therefore, it may be said that the prime requisites in locating dairy buildings are that the site should be dry, sufficiently elevated to allow good drainage, and should have convenient and abundant supply of good water. Probably the worst soils that could be selected are low-lying sites near rivers, where the ground is very largely composed of organic matter, washed down by the rivers. The best is probably an open, porous soil, underlaid with gravel. A southeast or southwest aspect is usually considered the most advantageous, principally because it gives the greatest protection from cold winds. The placing of

buildings used for the storage of grains, fodder, etc., to the north of the stable will greatly assist in breaking the wind, or a grove of trees will serve the same purpose.

An important point to consider is sunlight. Dark stables are never healthful. The influence of sunlight in contracting disease is remarkable, and where possible, the buildings should be so arranged as to receive the largest amount of sunlight. If more than one stable is to be erected they should not be arranged in the form of a square, as this tends to prevent the free circulation of air. Wood is much used in the construction of stables. It should be as impervious as possible, since at the best it is subject to rapid decay.

The least absorbent stone should be selected in order to avoid destruction by disintegration. Building with stone is more difficult than with brick, and the construction should be watched more closely. Brick is preferable to stone as it absorbs less moisture, as well as for other reasons. All ordinary burnt brick will absorb about sixteen ounces of water. Glazed, vitrified and paving brick are practically non-porous, and absorb but little moisture. Paving brick affords excellent material for floors, and for lower walls. Slate varies in value according to composition. The best slate is of a bluish-gray color and feels rough and hard to the touch.

Concrete makes an excellent resisting surface when placed on yielding soils, and therefore is largely used for foundation. The best soil on which to lay the foundation is gravel, but in all cases should have the same resistance throughout.

The walls may be hollow or solid. The essentials of a brick wall are that the bricks should not touch, but should be laid in mortar so that no spaces are left unfilled. Solid walls are preferable to hollow ones, as the latter harbor vermin, and the difference in the temperature of the two buildings is not apparent. The walls of the foundation, however, may be hollow to prevent dampness.

The inside walls, if of brick, may be cemented to advantage for half their height, for the sake of easy cleaning, as this part is so much exposed to soiling. In some high-class stables the fall for half its height is tiled, and from a sanitary viewpoint, is very advantageous.

It frequently happens that the building has two or more stories, the ground floor being used as a stable and the upper floor for forage or for the attendant. In such cases the ceiling of the stable should be made airtight in order that the forage may be prevented from becoming tainted.

Concrete, brick, cement and iron are used for floors. Where board flooring is used in the stable, both surface and underneath drainage should be provided. The general use of board flooring is undesirable from a sanitary standpoint, as it absorbs moisture and soon decays and thus is not very durable. The dirt floor should not be tolerated, as the animals cause depressions which serve as receptacles in which liquid excreta can accumulate. The dirt itself absorbs and retains the moisture, decomposition of organic matter soon sets in, and the gases formed render the air foul. One great defect in old stables and in many modern ones is insufficient lighting. Light is absolutely essential for the health of the animal. If it cannot be obtained through windows, owing to nearby buildings, it must be obtained through the roof, and no effort should be spared to secure all that is available. Augustus Forrest.

A seven-fat years and seven-fat kine story from the Alma, Missouri, Enterprise: "Here is a little cow story that came to us this week. Seven years ago last fall, Ross Jones north of town bought a young cow of August Schmitt for \$45. In the seven years he has owned her she raised him seven good calves. Last winter Mr. Jones put her in the feed lot and on March 16th had her on the Kansas City market where she weighed 1,690 pounds and sold for \$6.20, bringing him the neat sum of \$104.78. Lampe & Son, the commission men who sold her, write that they think this is the most money any cow ever brought on that market just for beef. If anybody knows a better true story than this, we want to hear it."

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DAY BY DAY

AGRICOLA

Talking about the benefits of rotation, here is a nut to crack: I have a neighbor who grows no grain but corn and never seeds down. For fourteen years he has grown corn continuously on the same ground with no rotation or even "summer fallow." You can guess the result.

But he has good corn and a good crop of it. Did you guess that? Not only does this neighbor stoutly assert that he raised a good crop of corn, but I have been at his place in the fall and seen it. He tells the truth.

But he finds that he must cut up the corn in the fall and fall plow the ground. If he leaves it to husk from the hill and plows in the spring his experience is like that of others who follow this practice. But I doubt that farmers generally could follow his method with success. His farm is river-bottom land, rich and warm. He has permanent pastures and permanent meadows on the bottoms, keeps plenty of stock, feeds river-bottom hay to the stock and puts all the manure on the plow land. This keeps the plow land rich, and by fall plowing he seems to keep insect pests in check.

And concerning the cutting up of corn in the fall, others report that the land grows poorer corn next year than on adjoining land where the stalks stood, and they have experience which seems to back up their assertions. But they waited until spring to plow the land. If not plowed the stalks are some protection.

The season is about one month earlier than usual here. Seeding was finished in March or the early days of April, with no rain or snow from February 26th to April 4th and no need of any, as the deep snow melted slowly and soaked into the ground. Gardens look fine, but we do not forget that one cold night can blight the whole and turn our joy into sorrow.

I saw a new style of corn planter the other day. It plants four kernels, or three kernels, or two kernels to the hill just as you please, and you can change as you plant by simply moving a lever. It works all right. Still, I do not know that it is desirable to change that way.

I believe in sharp tools and I keep a grindstone. The inference is easy to draw. But man born of woman is apt to infer things which are not so. I never use the grindstone. I have the modern carborundum tool grinder and use that exclusively. It is a small bicycle-looking affair, but for all its frail looks it will grind better and faster and easier than a grindstone, and you do not have to fuss with water. What a boon that would have been to Agricola when he was a little boy and had to turn the grindstone for the other fellow to bear on until the job seemed to lack terminal facilities.

There is another useful contrivance with which many readers are familiar, but not one farmer in fifty here owns. It is a windmill regulator. It saves not only much watching to start and stop the windmill at the right times, but it saves much hand pumping. For instance, when you are in the field and the stock come up and drink in the afternoon the regulator at once sets the windmill for work, and the tank is filled to the top and then the windmill stops, but if you have no regulator and wait until you come up at night the wind may have died down, you throw the windmill in gear, but there is nothing doing. And then again some time in the night a night wind may arise and fill the tanks to overflowing and make a mudhole because there was no one or no device to stop it.

Gradually as windmills wear out farmers are replacing them with small gasoline engines. Some of them are satisfactory and some are not. You need intelligence or good luck in making the selection. But buy a small engine for pumping. Then you can build a washhouse for it to live in and it will do the family washing

if you get one of the modern washers made for that express purpose. You can use a six or eight-horse engine to pump or wash with, and you can ride to church in a four-horse manure spreader—but don't.

My experience is that potatoes should be planted to give them a chance to grow in cool weather and have a vigorous leaf growth before the Colorado beetles come as summer boarders. Or else plant them late so they will be alive and green to grow in the cool fall weather. Avoid medium planting.

It may not be true elsewhere, but here disking ground for barley does not give as good results as plowing it. In the case of oats, however, plowing is usually labor worse than thrown away. Reference is here made to sowing on stalk ground.

I notice that the first lady in the land has set the date for her musicals at 10:30 at night. She is the first mistress of the White House to show her consideration for the members of the social set in this distinguished way. This will not conflict with their card parties, prayer meetings, etc.

The boss of the Agricola garden volunteered to cut the seed potatoes for the field patch this spring. I noticed that they were cut to just two eyes to the piece. As there were no sprouts grown to weaken the seed and they were planted early in good ground the first conditions are all right for a good crop.

No sore shoulders on the necks of the horses this spring, and if there were no sweat pads would be used. The collars would be adjusted, and if they would not fit, new ones would be bought that would fit.

I began to feel a little blue and all

on a Sunday morning. One of the hogs did not come to breakfast with the rest and paid not the least attention to calls, but lay motionless. Was it sick or already dead? Two boys went to determine. It was sound asleep—that was all. Then I felt better right away. Three cheers for mental science.

Our preacher, a middle-aged man, tells me that he can read English readily without glasses, but to read Greek characters he finds glasses helpful. I do not wish to be a doubting Thomas, but I do not believe glasses would help me to read Greek.

One reason why so many reformers are not honored in their own neighborhood is that their neighbors get tired of seeing their front gates hanging by one hinge.

As a result of continuous tests of Nebraska seed corn, the Commercial Club of Omaha announces that only 27½ per cent of the corn held by farmers for seed in Nebraska will grow. The state has been alarmed by such reports, which are said to be absolutely authentic. The corn in the northern part of the state is absolutely worthless for seed, while in the southern part those farmers who have tested corn find they have only sufficient seed for themselves and will have none to sell. The commercial clubs and banks in many parts of the state will continue to make tests while the railroad companies are sending bulletins to all stations warning against planting untested corn.

Pure Kherson Oats.

Those of our readers who have not secured their oats for this season are requested to read the advertisement of Messrs. Aye Bros., of Blair, Neb., on page 18. They are offering pure Kherson oats, treated for smut, re-cleaned and free from barley and weed seeds, and their price is only eighty-five cents per bushel, sacked on board cars. Wire or phone them your order at once.

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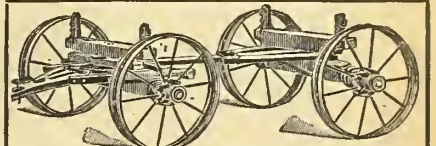
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We want you to hear the Victor. It is a duty you owe to yourself and family—they shouldn't be deprived of the music and fun that help to make a happy home.

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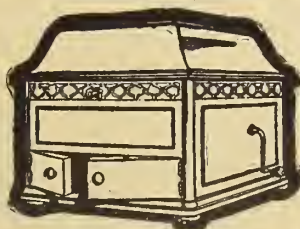
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OUR FRIEND, THE LILAC.

Do we appreciate the lilac as we should? Is it so common in our door-yards and upon our lawns that we have come to look upon it as commonplace and plain? Were we to be deprived of its matchless beauty and pleasing odors would we sorely miss it and were it a rare species would we then know that it possessed unusual virtues? We surely would be even better pleased with its mild fragrance and would consider its splendid clusters more beautiful than ever. Mr. William C. Barry, of Rochester, New York, can plead the case for our old friend and spring companion most convincingly and we will retire in his favor:

The lilac is so well known and highly valued that it seems almost idle to make an effort to increase its popularity, and yet so many desirable varieties have been added to the collections during the last few years, that lovers of this flower should become acquainted with them and enjoy them.

The lilac is known and grown generally because of its hardiness, richness and freedom of bloom, its delicate fragrance, handsome foliage, good habit, vigor, healthfulness and easy culture.

Grown singly or in masses its effect upon the lawn is always pleasing and satisfactory, and everyone who possesses a lilac bush or bushes feels that he has something valuable, that will give a good return regularly every year. The older the bush is, providing it has been taken proper care of, the better the yield of flowers. And this is a desideratum—all things do not improve with age. Oftentimes we see bushes flowering profusely under the most adverse conditions, having been neglected and even abused at times. So we may very properly conclude that the lilac is for the masses, those who are without gardeners or whose places may not be the best for gardening purposes, as well as for those who are fortunate enough to own large properties, with ample help to take good care of everything.

In May when the lilac is in flower, admiration is expressed for it on every side; even the most indifferent observer cannot restrain himself from manifesting his appreciation of the flower, praising its beauty and expressing a wish that it might be employed more frequently than it is in garden work. The gardener realizes that in this shrub we have particularly valuable material for gardens and parks, and recently unusual interest has been taken in it. Great collections, embracing hundreds of varieties, have been planted at the Arnold Arboretum in Boston, and at Highland Park in Rochester. Last year at Highland Park, when the lilacs were at their best, they were inspected by over 30,000 visitors in one day, who had only words of appreciation and admiration for them. It certainly is very gratifying to note that this flowering shrub is growing in popular estimation.

The lilac may be employed advantageously in a variety of ways; for hedges, screens, massing, for shutting out objectionable views and hiding unsightly buildings—or when planted alone, it makes a good bush, it grows rapidly, flowers profusely, has good thick foliage, is free from insects and always looks well.

When lilac time comes again let us keep the house continuously decorated with the flowering branches placed in large, deep vases to hold the long stems. Lilac time might well be celebrated in every home, and made an occasion to be looked forward to with delightful anticipation.

THE PRODUCTION OF LETTUCE.

Lettuce is the best-known salad we have, and is also one of the healthiest vegetables grown as it contains quite a large per cent of iron, and as we all require iron in our systems to be healthy it is much better to eat in with our lettuce than to take it as a medicine. In order to be crisp and tender lettuce must make a rapid growth, and for this purpose a rich, moist and mellow soil is needed for best results. Frequent cultivations should also be given during the growing season.

For a continuous supply successional sowings should be made from early spring until the middle of July. Have the soil deeply plowed or spaded, make it fine and level with a rake, and sow the seed thinly in drills fifteen inches apart and one-half inch

deep. As soon as the plants are fairly started commence to work the soil, and thin out the plants to stand three inches apart. When these plants begin to crowd the alternating ones may be taken up for use, the remaining ones will then have a chance to form tender, well-bleached heads.

Although this is one of our most popular vegetables it is also in most gardens given improper attention for it is generally sown too thick. In order to have the finest quality in your lettuce the plants must be allowed to form heads, and this is impossible if the seed is sown thick and later the plants not thinned out.

Crisp, tender lettuce cannot be grown in the hot summer months unless the bed is partially protected from the sun. This can be done by building a frame of light lath about three feet wide above the bed. The laths should be about as far apart as they are wide so as to allow some light to enter and also water if it

should happen to rain. Lettuce will be of much finer quality if gathered early in the morning than if allowed to stand in the garden until it becomes wilted by the hot noonday sun.

THE GROWING OF SQUASH.

There are two types of this vegetable; those having a tender skin, which are grown for use during summer, and those which have a hard shell which are grown for winter use. Of the summer varieties the bush varieties are the most desirable to plant, as the hills can be quite close together. The hills should be four to five feet apart each way, and a shovelful of well-rotted manure mixed with each hill. Plant about ten seeds on each hill and cover one-half inch deep. The plants are not so apt to be destroyed by insects as cucumbers or melons, but insects should be watched for, and if they make their appearance the plants should be dusted with air-slaked lime, soot or wood ashes. The plants should receive frequent cultivations, and when well started should be thinned out to the three best plants to each hill.

All fruits of the summer varieties should be gathered while young and tender, as they are not of much use if allowed to become old, and if any fruits are allowed to ripen it will check the further bearing of the vines. The winter varieties almost

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- 2 Montmorency cherries, 2 years old.
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- 25 German Iris—fine.
- 1 Snowball.
- 1 Spirea.
- 5 Norway poplars, 3 to 4 feet.
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I OFFER for sale as long as it lasts: 3,000 bushels 1908 Reid's Early Yellow Dent; fancy ear seed in crates, \$5 per bushel; shelled and graded, \$4 per bushel. 2,000 bushels 1908 Iowa Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 5,000 bushels 1908 Dakota Gold Mine; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. 1,000 bushels Early Yellow Murdock; fancy ear seed in crates, \$4 per bushel; shelled and graded, \$3 per bushel. This corn has been carefully saved from the year before, in well-aired and ventilated cribs, and I positively guarantee every bushel to test 90% or better, and I believe it will test over 95%. All my corn is raised within 15 miles of Elk Point, South Dakota, and is ten days to two weeks earlier than southern-grown corn of the same varieties. My Guarantee: Every bushel good or every bushel back. I have good 1909 seed corn also. Write today for circular and samples.

L. N. CRILL SEED COMPANY, ELK POINT, SOUTH DAKOTA.

SEED CORN
PURE BRED

PETTY'S EARLY DENT--YELLOW
PETTY'S ECLIPSE--YELLOW
CLAY COUNTY WHITE

WE ARE FARMERS---NOT DEALERS



Carefully Selected
From our fields that last year produced 75 to 90 bu. per acre of sound corn. It stands the test and our guarantee is behind this test.

High Grade, \$2 per bu.; Extra Select, \$2.75; Crated Ears, \$4.

Petty Bros., Box 4, Liberty, Mo.

SEED CORN

Guaranteed first-class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. J. B. Armstrong & Son, Shenandoah, Ia.

Moore's High-Yielding Strain of Reid's Yellow Dent Seed Corn

MEANS 10 to 25 bu. increased yield per acre wherever planted. We have a limited supply of extra fine ear seed, selected early and showing very high vitality test, and we offer it while it lasts at \$4 per bu.; 5 or more bu. at \$3 per bu. Sold only in ear, subject to approval and test, and guaranteed to test 94% or better, or money refunded. Send order at once to

C. MOORE & SON, KELLESTON, IOWA.

SEED CORN

seed flax, garden seeds, etc. Catalog free.

We are the exclusive agents for H. J. Goddard's "SILVER KING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern-grown seed corn. Clovers, timothy, alsike, mixed timothy and alsike, "primrose" wilt-proof.

THE ADAMS SEED CO., Box 1, Decorah, Iowa.

ONE MILLION GENUINE SPECIOSA CATALPA GIVEN FREE

TO ADVERTISE THE GENUINE SPECIOSA CATALPA.

WRITE for this offer and enclose 2c. stamp for our new 34-page illustrated booklet on Speciosa Catalpa growing.

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J. Moncrief, Pres. Winfield, Kansas.

KHERSON OATS

Treated for smut, free from barley, re-cleaned and no mustard or weed seed. Best oats grown in corn belt. Sacks free. Price 85 cents per bushel.

AYE BROS., BLAIR, NEB.

SWEDISH SELECT OATS

Pure, Re-cleaned Northern Seed. The great Oats of the Corn Belt. \$1.00 per bushel in twenty-five-bushel lots; \$1.25 per bushel in ten-bushel lots.

THE SUMMERS SEED HOUSE, Malvern, Ia.

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PRIDE of South Dakota Early Yellow Dent, Early Snow Flake White Dent, both good yielders; was fully matured and dry before any freeze. Will germinate stronger and better than the 1908 crop. Every bushel guaranteed of money and freight refunded; \$2.50 per bushel. 10-cent stamp gets sample ear.

C. S. BOVEE, ELK POINT, SO. DAKOTA.

I SHOW YOU MISSOURI SEED CORN

I OFFER 300 bushels Silver Mine, 40 bushels Early Iowa Silver Mine, 80 bushels St. Charles White, at \$2 per bushel. Corn sold in the ear in sacks free. Guaranteed to be extra strong in vitality. Joseph R. Miller, Rock Port, Atchison County, Mo.

EVERGREENS

200 Norway Spruce, 3 to 6 in., \$1; 100 Arbor Vitae, 3 to 6 in., \$1. Prepaid by mail. Many other \$1 bargains. Larger trees by express or freight very cheap. Sixteen different kinds. Price List free. HARVARD NURSERY, Box W, HARVARD, ILL.

The Famous Red River Valley Ohios

WE have a select lot of Early Ohio and Rural New Yorker Seed Potatoes, which we will make a special price of \$1 per bushel on. All our seeds are fresh, pure and reliable. Write for our catalog. The Summers Seed House, Malvern, Iowa.

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.

\$3 A BUSHEL---REID'S YELLOW DENT

Grown in 1908. Selected, graded, tested, ready to plant and guaranteed to grow. Raised on my own farm. Tests 95 per cent. Send orders to J. J. O'LAUGHLIN, ROME, IOWA.

PRIZE-WINNING SEED CORN

Tests 90 and 100 per cent.

PURE KHERSON OATS and Field Seeds. Write for catalog and prices. AYE BROS., Second Street, BLAIR, NEB.

STRAWBERRY PLANTS, 50c per 100; \$2.50 per 1,000. Blackberries, Raspberries, Circular free. C. J. Mackey, West Liberty, Iowa.

Write For Factory Price Freight Prepaid—30 Days' Free Trial

Don't buy a rod of fence till you get all the facts about the quality of the world's greatest fence and our low prices direct from factory here in Elgin. We pay the freight, give you 30 days' free trial and money back if you're not satisfied—no matter where you live. Our prices are lowest ever made on highest quality



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The best-looking—strongest-constructed—longest-lasting fence produced. Made of Solid Wire with Continuous Stay-wire. Not cut and spliced. A cut wire weakens and points stick out to injure stock. Mail postal now to get all the facts and money-saving prices.

ADVANCE FENCE COMPANY
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Here's a tool that cuts quickly through the hardest ground, and you can set it to bore nine sizes of holes.

Standard Post-Hole AUGER

—does better and faster work than any similar device, and you cannot afford to be without one if you set posts—plant trees—dig wells—build fences or bore in the earth for any purpose. Get Catalog F.

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BORES LIKE A DRILL
DUMPS LIKE A SHOVEL

14 3/4 Cents a Rod

For 22-in. Hog Fence; 15 3/4-c for 26-in.; 13 3/4-c for 31-in.; 22c for 34-in.; 25c for a 47-in. Farm Fence. 50-inch Poultry Fence 33c. Sold on 30 days trial. 80 rod pool Ideal Barb Wire \$1.55. Catalogue free.

KITSELMAN BROS.,
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BROWN FENCE

For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. We pay freight.

The Brown Fence & Wire Co.,
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Ornamental Fence

Cheaper than wood for Lawns, Churches, Cemeteries. Public Grounds. Also Wrought Iron Fence. Catalogue free. Write for Special Offer.

THE WARD FENCE CO., Box 450 Decatur, Ind.

FENCE STRONGEST MADE.

en-tight. Sold to the user at Wholesale Prices. No Pay Freight. Catalogue free. COILED SPRING FENCE CO., Box 20 Winchester, Indiana.

CHEAP FARES SOUTHWEST

Now is the time to make a trip to Oklahoma or Texas and see for yourself the opportunities that abound on every hand—chances that cannot last long as the country is being settled rapidly.

On the First and Third Tuesdays of each month

excursion tickets are sold at especially low rates to Oklahoma and Texas with privileges of stop-overs. Such a ticket enables you to visit a large section of country—seeing for yourself what the Southwest offers. Will you go now, or wait longer until land prices advance to the top notch and the opportunities are all snapped up? Probably I can help you decide—at any rate write me for some literature and further information about the Southwest.

W. S. ST. GEORGE, G. P. A., St. Louis



all produce large fruits with a hard shell and solid flesh. They are used for many purposes, and are far superior to pumpkins, as they are of finer quality, and having a hard shell can be kept much longer in the winter. As these varieties grow very rank vines, often twenty-five feet long, the hills should be a considerable distance apart, about eight to nine feet apart each way is none too far in good soil.

The soil should be deeply plowed and hills marked out eight to nine feet apart each way. Rotted manure mixed with the soil of each hill will greatly hasten the growth of the young plants. Plant about ten seeds in each hill and cover with one-half inch of fine soil. When the plants are well started thin out to the two best plants to each hill. The squash should be frequently cultivated until the vines have spread so much as to make further cultivations impossible for fear of injuring the vines.

The fruits should be gathered before there is any danger from severe frosts. A light frost will destroy the vines, but will not injure the fruits, but the fruits should be gathered as soon as the leaves have dropped down. Cut all of the fruits from the vines, leaving the stem attached to the fruits. If gathered before hard frosts and stored in a warm, dry place they will keep until the following spring. If properly stored the fruits become of better quality as the season advances.

Nothing makes finer food for growing young pigs than winter squash. It would pay every farmer well to plant an acre, and if he could not sell them for good prices on the market, (which is seldom the case), he could make excellent use of them by feeding to his hogs, as on good rich soil an enormous amount of them can be grown on one acre of ground.

EXHIBITING SINGLE POTATOES.

The following communication has been received from a subscriber, Mr. J. L. Todd, of Polk county, Iowa:

I am sending you in a separate package a specimen of Early Ohio potato that, according to my way of thinking, comes as near being perfect as any-



A field of Kherson oats as grown on the farms of Messrs. Aye Bros., Blair, Neb. The Kherson oats have proved the best and western experiment stations all recommend them as the most satisfactory oats for farmers to sow. Read the advertisement of Messrs. Aye Bros. on page 18.

thing I have ever seen. I expect you to return it to me because it is my intention to plant it where the conditions will be ideal for crop production, in the hope of making it the foundation stone of an improved strain.

Why would it not be a good plan to adopt the same classification in potatoes as we do with varieties of corn at our state and county fairs? We show single ears of corn, and indeed, sometimes the best prizes are given for a single ear. Why not show a single potato or two potatoes, or perhaps three? It seems to me that people in general are just as much in need of education along this line as they are in any other, and I cannot conceive of any plan that would educate people more quickly than to select some ideal specimens of each variety of potatoes. I hope you will pass this suggestion on to state fair secretaries for their consideration. While the potato crop of the central West is not worth as much money as the corn crop, it is a fact that everybody grows potatoes, and considering the area devoted to this crop, I doubt if an equal piece of land in any other crop produces so much wealth.

The particular specimen mentioned in this communication was duly received and without any hesitation we pronounce it one of the most perfect tubers that we have ever examined. The suggestion made by Mr. Todd is surely one that is entitled to some consideration. We cannot see why a specially fine individual potato should not be made the basis of an improved strain. This improvement may not be sufficient to justify giving to it a new name, and yet at the same time it

may produce a larger yield of potatoes, the bulk of which are superior to the ordinary run of the same variety. We believe that an exhibit of potatoes made in this way at a state fair would attract a good deal of attention. If, for instance, fifty or 100 exhibitors entered a single potato, and these were all placed side by side properly labeled, it would certainly stamp the general characteristics of that variety on the visitor in a way that the present plan of exhibiting can never accomplish.

BEAN CULTURE.

These cultural instructions pertain to the growing of beans for use during the green state, or for snap shorts, as it is generally known.

It is an old saying that land which will not grow any other crop may be planted to beans. However, this is a great mistake, for in order to grow a good crop of beans the soil must be fairly rich or you will have a poor crop. Beans will come into bearing earlier on light, sandy soil, but larger crops and pods of better quality can be grown on heavier soils, only they will be a little later in coming into bearing. This point should be given consideration when planting for market, as the early crops always bring the best prices.

Beans are very tender and should not be planted until the ground is quite warm or the seed may decay in the ground. Planting should be done about the time corn is planted or a little later for main crop.

Plant in rows eighteen inches apart, having the seed in drills every four inches or in hills about one foot apart in the rows; cover the seed about two inches deep. The writer prefers planting in hills, as they are easier to hoe and keep clean from weeds. As soon as the plants are up commence to stir the soil, and give frequent, but shallow, cultivations until the blossoms appear; after that all cultivation should cease, as the blossoms are very easily knocked off and, of course, this would greatly diminish the crop of pods.

Do not work among your beans

CORN THAT GROWS

You can't afford to take chances in planting poor seeds—your high priced land makes a good crop an absolute necessity.

CORN THAT WILL MATURE

Our Dakota Grown Seeds will mature and yield a larger crop than you ever had before. Order early as seeds won't last long.

Silver King on the ear \$4 per bushel.
Dakota Yellow Dent, 1908 crop, well sorted, shelled and graded, \$3 per bushel.

Reid's Yellow Dent, 1908 crop, well sorted, shelled and graded, \$3 per bushel.
Dakota Gold Mine, well sorted, shelled and graded, \$2.50 per bushel.

North Dakota Special, a very early corn, will mature in about eighty (80) days, shelled and graded, \$2.50 per bushel.

Early Monarch Oats, grown at Calgary, Canada. These oats are the heaviest yielders and largest white oats ever offered for sale. They test 44 pounds per bushel, government test. Price \$1.25 per bushel in ten bushel lots or more.

\$25 Cash Premium for the largest yield of **Early Monarch Oats**, grown from seeds purchased from us. Remember contestants must purchase at least ten bushel or more from us. Weight and measure must be verified by at least two witnesses under oath.

New Kherson or Sixty Day Oats.—From all reports of this and other northern states the past season have yielded from 40 to 70 bushels per acre, and is one of the surest crops we have. Price per bushel in ten bushel lots or more, 75 cents, bags 20 cents extra.

Japanese Millet, sometimes called **Billion Dollar Grass**, one of the most remarkable forage plants we have; remarkable for its marvelous, luxuriant growth and for the immense amount of hay it produces from each acre; it is relished as hay by stock and if allowed to ripen it will yield about as many bushels per acre as oats.

Sow in May at the rate of 15 to 20 pounds per acre. Price per bushel, of 40 pounds, \$1.50, sacks 20 cents extra.

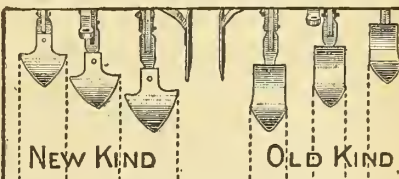
New Siberian Millet. A good Millet introduced some years ago from Russia, and is an entirely distinct variety. Price per bushel \$1.50.

Speltz or Emmer. It can hardly be recommended too highly. It will yield more bushels per acre than either oats or barley. It is especially adapted to dry regions and to localities that are subject to hot, dry summers, as it withstands drought where barley fails entirely.

Prof. Wilson, of the South Dakota Experiment Station, in a careful test with feeding calves found Speltz worth 40% more than corn, pound for pound. Price in ten bushel lots or more, 90 cents per bushel; sacks 20 cents extra.

Dakota Grown Buckwheat. One of the best known crops for killing out "quack grass" and other noxious weeds. Will yield from 20 to 40 bushels per acre. Price per bushel \$1.50.

O. S. Jones Seed Company Sioux Falls, South Dakota



Save the Corn Roots

BROTHER Farmer, if you'll let me, I will help you make money by using my surface and deep cultivator shovel. Will fit any round shank, cut all weeds, scour in any ground, save the corn roots and handle easy for boys and horses. Send for circular.

Chas. Burmeister, Sutherland, Ia.

WARD FARM FENCE

40 carbon spring steel, extra heavily galvanized. 30 days' free trial. Freight prepaid. Complete free catalogues on Farm, Poultry and Ornamental Wire and Wrought Iron Fences. Write now for special offer. The Ward Fence Co., Box 345, Decatur, Ind.



When writing mention this paper.

RAISED TO PASS HOGS AND HOLD BACK OTHER STOCK

See The Points

They point to the solution of all your gate troubles.

Cyclone Farm Gates

are constructed of special high carbon tubular steel because it is the strongest material that can be found. Cyclone Gates are shipped with malleable hinges, latches and everything necessary, ready to hang to posts. All Cyclone Gates are guaranteed sag-proof. Cyclone frames are not drilled full of holes for fastening the wire fabric. The bars of the frame are connected by our special inside fittings that add greatly to their strength. Let us show you how it will pay you to have these gates on your farm—how it will save you time, trouble and money. We will send catalog free, also our finely illustrated book of Lawn and Cemetery Fencing. The largest and most complete line manufactured.

CYCLONE FENCE COMPANY, Dept. 121 WAUKEGAN, ILLINOIS.

CLOSED TO HOLD ALL STOCK

SO LIGHT A CHILD CAN OPEN IT

WHY CERTAIN DODDIE FAMILIES ARE SUPERIOR.

To the Editor of The Homestead:

I am highly gratified to see my article, "Merit in Certain Aberdeen-Angus Families," fully vindicated and endorsed by such an eminent judge as Mr. Wilkinson, in his second article, "Merit in All Doddie Families," that recently appeared in The Homestead. He says, "We have more Blackbirds, Ericas and Prides than anything else and use nothing but Blackbird sires." In this I commend his good taste and judgment, but, pray, why does he use nothing but Blackbird sires, if it is not for the improvement of his herd, if there is no especial merit in this family over the others, and why does he use it to the exclusion of all other blood, and why does he keep more Blackbirds, Ericas and Prides in his herd, if these families are no better than the many others in our breed?

I must certainly cordially thank Mr. Wilkinson for alluding to my inexperience in cattle feeding and breeding, when the records of the Chicago stock yards will disclose the fact that I have fed, shipped and consigned to that market as many—probably many more cattle during my short inexperienced life than he has during his grandly rounded-out "fifty-five years of cattle feeding and breeding." I could probably say further that the many good Angus breeding cattle which I have fitted and shown and the great consignment of cattle that went through my last sale where the highest average was made at any Angus sale held during recent years, in this or any other country, and the many good ones yet to be seen in my pasture are not, neither were they, any of them, the result of chance, or that these good cattle "just grew," as did Topsy, but were the result of careful study and the blending of the blood of the three great families that he says predominates in his herd, the Blackbird, the Erica and the Pride of Aberdeen.

As to whether the years that I showed Angus cattle were off years or not, as Mr. Wilkinson suggests they were, I leave the breeders of Angus cattle and the public to judge. One of these years was 1904 where my cattle appeared at the St. Louis World's fair in probably the greatest show of Aberdeen-Angus breeding cattle ever held in this country or the world, if that matter, and there I won more premium money than any other Angus exhibitor at that show, and in same year at the Iowa State Fair I won with my herd over all beef breeds the beautiful trophy given by the department of agriculture for the best beef herd of any breed. This was done with a herd composed of four intensely-bred Blackbird females and one intensely-bred Pride of Aberdeen bull. If Mr. Wilkinson, has a surer or better way to convince the public that he has better cattle in other families than these, the breeding public would be pleased to learn from him.

The Angus cattle have achieved so much and made such great improvement since the Wallace Estill dispersion in 1900 that to allude to what the Drumin Lucys, Maggies and Queen Mothers did in that sale, is to but quote the long dead past from the "ancient history of our breed." And the real trouble with Mr. Wilkinson at this time appears that he is standing with his face looking longingly for the dead past, when to be up to date, his eyes should be scanning the future, where his breed of cattle will continue to win greater contests and attain higher achievements, if he will but take his eyes from the past and turn them to the future.

Now what are the facts about this sale of Drumin Lucys and Maggies? It cannot be controverted that in Mr. Estill's hands these two families of cattle were great show cattle and the reason for their high average was that they sold to some of the best breeders in this country for show purposes, and I am informed that one sold for about \$2,200 while another of this family sold for about \$1,500, but what did these Drumin Lucys, Maggies and Queen Mothers do in other breeders' hands? In Mr. Estill's hands they were great cattle, but in the majority of cases they did not make good in other breeders' hands, and

have degenerated in many cases into common and plain cattle, while the Blackbird, Erica and Pride families have "made good" in the majority of cases in all breeders' hands and are sought after by all breeders alike, by even Mr. Wilkinson, when he wishes to improve his herd.

Another reason why Mr. Estill's Drumin Lucys and Maggies outsold his Blackbirds and Ericas was that the strain of Blackbirds that Mr. Estill bred were not such good cattle, nor are their blood lines sought after to this day, while his Ericas were largely the descendants of the cow Ella, that have been discarded from many of the herds in this country as not being good cattle, and whose descendants bring at this time but little more than beef price.

A number of years ago, I had and kept in my herd as good Drumin Lucys and Maggies as I ever saw, some of which were bred by Mr. Estill but they did not make good with my Blackbirds, Ericas or Prides, and no one would buy them, not even Mr. Wilkinson, and I closed them out of my herd at a loss and kept my Blackbirds, Ericas and Prides, which have made me money, and I find my experience corresponds with nearly every other breeder that has kept abreast to the times—that their poor, plain-bred cattle have lost them money while their good and well-bred cattle have made them money during late years.

I can not pass over unnoticed what Mr. Wilkinson says about "pluggers" at our sales of Aberdeen-Angus cattle. In the past I have esteemed it a great pleasure to attend other breeders' sales of Angus cattle and help what I could to encourage and stimulate other men to buy Angus cattle, but I regret to have to say that out of the many Angus sales that I have attended, I do not now recall of ever having seen or met Mr. Wilkinson at one of them. At very few of these sales that I have attended have I failed to do some bidding and while I do not purchase many cattle at public sales, I have occasionally bid one off and when I did, I settled for her just like the other Angus breeders do and have been pleased to get this opportunity to show my appreciation of other breeders' efforts to produce good cattle. Also all little differences growing out of business of this nature has been adjusted out of court with me as with nearly all other Angus breeders. Human nature is much the same the world over, this country or the old country to which Mr. Wilkinson alludes and if Mr. Wilkinson chooses to "plug" for an old country breeder, while he has nothing but protest and censure for his American brother and his methods, it is his right to do so. However there are within 150 miles of his farm probably more good Angus females than there are in Scotland today, and there are herds of Angus cattle in the state of Iowa that are not excelled in quality and breeding in Scotland, if Mr. Wilkinson will but turn his face to the front and go and see them and he will find these good herds made up largely of Blackbirds, Ericas and Prides, just as Mr. Wilkinson's herd is. C. J. Martin.

Greene county, Iowa.

PROTECT THE SWALLOWS.

Economically, the swallow is one of our best friends, and as such should be protected, says the Youth's Companion. Horseflies, house flies, gnats, codling-moths, cankerworm moths, leaf-rolling moths, grasshoppers, plant lice, spiders, cabbage-butterflies, chick-beetles, winged ants, rose and May beetles, striped cucumber beetles, cotton-boll weevils—these are a few of the injurious insects that the birds of the swallow family live upon.

Oliver Goldsmith in his "History of Animated Nature" speaks of the good these birds do, thus showing that even at that time, when little was known about them, they were appreciated. But recently they have assumed national importance because of their great service in checking the danger threatened by the cotton-boll weevil. It has been estimated that, in favorable circumstances, a single pair of these weevils will in one season raise a family of twenty-nine or thirty millions.

The female lays about 140 eggs,

depositing each egg in a different square or boll of cotton. The boll is punctured, the egg deposited, and the insect passes on to another.

No cotton comes from a boll thus "stung." Rather it shrivels and dies while furnishing food for the growing worm. This pest is spreading at the rate of fifty miles a year, and unless methods can be found to arrest its progress, it will eventually infest the entire cotton-producing area. The Biological Survey has found thirty-eight species of birds which feed upon these weevils. Foremost among these are the several species of swallows, including the beautiful but diminishing purple martin.

Forty-seven adult weevils have been found in the stomach of a single

cliff swallow. This bird is a migrant, only, in most parts of the South. It is during these migratory flights, when the weevils are flying in the open, that the birds do so much good.

We of the northern and western States have this cliff swallow, as well as the other varieties, as summer visitors. With us they build their nests and raise their young. Because of the persecution of English sparrows, especially successful against the purple martin, and because of man's ignorance as to their value, and consequent difference, the swallows have become scarce in many localities where they formerly bred in great abundance. It is incumbent on us to give what protection we can to these national benefactors—the swallows.

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This is so amazingly simple you will wonder why it was not thought of long ago. Yet it does away with 20 to 35 parts and all the usual puzzling, complicated arrangement of gears and cams.

It makes the running smooth, steady and noiseless. It adds years to the life of the engine.

"Simple Simon" Engines

Equipped with the Celebrated Motsinger Ignition Devices

No batteries to fail when you want your engine the most, no ignition trouble or expense. You have a white-hot spark for a lifetime when you have the "Simple Simon." All our engines are equipped with these celebrated ignition devices, which save in fuel and battery expense alone enough to buy an engine in time.

The "Simple Simon's" automatic suction mixer vaporizes naphtha or distillate as well as gasoline. Its fly wheels are twice as heavy as those of many engines. It is covered by an ironclad guaranty.

Avoid engines equipped only with uncertain and costly battery ignition. Go to your dealer and see a "Simple Simon" before you buy. If he hasn't one, we will see that you are supplied.

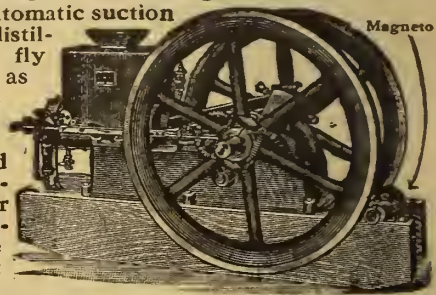
YOU GET A THIRTY DAYS' TRIAL FREE!

Send for our FREE Engine Book today. It tells you all about "Simple Simon" Engines—horizontal or vertical—equipped with open jacket, frost proof or circulating tank cooling systems. Your name on a postal is enough.

Armstrong-Quam Mfg. Co., 14 Chestnut St., Waterloo, Ia.

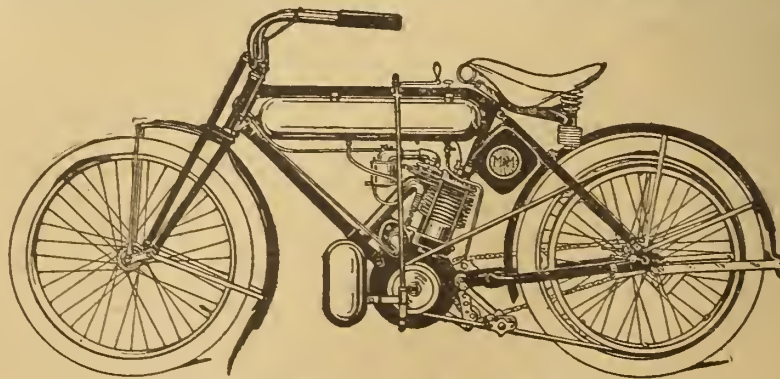
We also furnish Electric Lighting Plants, Wood Sawing and Pumping Outfits and Red Mill all-metal Feed Grinders. We are the manufacturers of the famous Waterloo Well Drilling Outfits.

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To You—Mr. Progressive Farmer—time is money. Don't take a team from the field. You can run into town on a Motorcycle in just about the time it would take for hitching and unhitching. Horses need rest the same as you do—they won't work right without it. That's why you want a Motorcycle. The first cost is small—running expenses are very low—you really can't afford to be without one.



M. M. 3½ H. P. Battery Special. Price \$200. Complete.

M. M. MOTORCYCLES

Are built according to the most advanced ideas of motorcycle construction. They start easily—are easy to operate—and will go anywhere. The M. M. Motorcycle has more exclusive and popular features than any other on the market. Write for our illustrated catalog—TODAY.

AMERICAN MOTOR COMPANY

801 Center Street,

Brockton, Mass.

When Writing to Advertisers Please Mention This Paper

THE ANTISEPTIC SOLUTION.

To the Editor of The Homestead:

The article, "Hens, Eggs and Incubators," in issue of February 17th, has called forth two queries which cover the same ground. Both writers ask what antiseptic solution should be used. For an intelligent understanding of the matter, the history of the investigations that led up to the recent important discoveries should be given.

Several years ago the ravages of the disease called "white diarrhea" was so serious among newly-hatched chicks, poultrymen affirming that where it prevailed it killed from 60 to 75 per cent of all chicks hatched, that the government set on foot investigations regarding it. At the same time government experts were also studying the destructive disease—blackhead in turkeys. Both diseases were caused by a malignant germ, a microscopic parasite long known in Europe as most virulent and destructive.

Thanks to these unwearying investigators, this disease among chicks has been well defined. White diarrhea is an inflammation of varying severity, of the blind intestinal pouches, caused by the presence of this germ. It usually attacks chicks from two to five weeks old. The symptoms are dullness and weakness, accompanied by a white, pasty, fecal discharge, which contains the cells of this parasite. These cysts, or cells, only need warmth and moisture to develop into the form by which the disease is transmitted to other birds. When received by chickens in food or grit soiled with infected droppings, the cell wall is dissolved, and the germ starts on its destructive growth. Remedies are of little use, although many have been tried. Prevention is the only hope of victory in this battle. The government bulletin treating of this investigation, says:

The essential work in battling with this disease consists in prevention. This must begin with the eggs used for hatching. These should be thoroughly and antiseptically cleansed by wiping in 95 per cent alcohol. If artificial incubation is used (and in this method lies the great hope of success), the incubator, if used before, should, previous to receiving the eggs, be carefully washed with an antiseptic solution and exposed to the sun. The egg trays should be scalded or flamed. The floor of the nursery should be movable, so that it may be taken out and sterilized, and if made of burlap the old piece should be torn off and a new piece tacked to the sterilized frame. The same precautions should be used with the brooders. The soil to which chicks have access should be well covered with lime, dug up, and exposed to the drying effects of sun and air.

The alcohol for washing the eggs should be pure alcohol, not denatured or wood alcohol. This is imperative. For washing the incubator, Dr. Ross recommends formalin, as it is non-poisonous and will not corrode the metal parts as many disinfectants will. Fumigate with the formalin, or wash the machine with a 5 per cent formalin solution. It has the merit of evaporating after its work is done, leaving nothing behind to poison the chicks.

Dr. P. T. Woods, who has done much to throw light on these hard questions, recommends creolin for both eggs and the incubator. He says:

The method of giving the antiseptic bath is simply to dip the eggs in a solution of creolin in water, the water used being at about 60 degrees F or just having the chill taken off. This is done just before placing them in the egg trays at the start of the hatch. For this purpose we recommend the use of the best creolin that is sold for veterinary purposes, using five tablespoonfuls of creolin to one gallon of water.

Don't stint the amount of the solution when washing out the incubator. It is hardly possible to use too much. Follow these rules carefully, and see how much better your success will be, especially if the malignant disease, white diarrhea, has been playing havoc with your young chicks.

A Poultry Lover.

A Salina, Kansas, woman who was notified to keep her chickens at home became very indignant toward a neighbor, whom she accused of complaining against her. "Why, I would be foolish to have made any complaint about your chickens," said the neighbor. "I have been getting five fresh eggs laid in my barn by your chickens every day."

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ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

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WANTED—Railway mail clerks; \$100 and more monthly; 2,000 to be appointed. Examinations soon. Write for application form and full particulars. American Standard Institute, Kansas City, Mo.

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ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. K. Vrooman, 812, Washington, D. C.

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PATENT secured or attorney's fee returned. Inventors handbook free. S. H. Evans, Washington, D. C.

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MISCELLANEOUS.

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POULTRY

This department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

A FEW INCUBATOR RULES.

To the Editor of The Homestead:

Every incubator has with it a book of instructions, written by the manufacturers, to whose interest it is to help the purchasers of their machines to make a success. These directions should be most carefully followed. But there are some rules learned by long experience, which are not usually incorporated in any book of instructions. Here are a few of them:

It is better to begin to turn the eggs twenty-four hours after they are put in the machine, to keep the germ from sticking to the shell. Some say do not turn until the third day, but unless the room in which the machine is set is very cold, the twenty-four hour limit is the safer one.

In a cold room, turn the eggs twice a day, as quickly as possible. In a room above 60 degrees, the eggs should be turned three times a day at regular hours.

Eschew all turning devices. The eggs need the careful touch of the human hand. One can either take out the eggs in center of tray, rolling balance of eggs gently toward the center, placing eggs that were removed around the edges, or remove the eggs on the outside of the tray, rolling those in the center toward the edges, and putting those taken out in center of tray. In this way it is not necessary to mark the eggs to be sure they are turned exactly over each time. The handling insures sufficient change of position.

When turning in this way two or three times a day according to temperature of room, no further cooling or airing is necessary for the first week if the thermometer outside registers below seventy degrees, unless the eggs have been overheated. If this has been the case, cool the eggs in tray outside of machine until sufficiently cool.

During the second week of incubation cool and air the eggs from ten to fifteen minutes at last night turning, according to the warmth of the incubator room. During the third week allow a little longer time, if the outside temperature is suitable. Stop turning and close machine as soon as eggs show signs of pipping.

If at any time the temperature of the eggs is too low, below 101 degrees at turning time, do not turn the eggs. Find out the reason for the deficient temperature and correct it. Do not turn until temperature has been right for some hours. On testing day do not turn or cool eggs as they get sufficient handling and cooling during the test.

I have recently found a new suggestion, which I am trying this spring. To quote the writer's own words:

Do not place the eggs directly on the wire bottom of the egg tray. Nature never intended eggs to hatch on wire netting with a big, cool air space beneath them. Provide a piece of coarse-weave muslin or open-mesh canton flannel to cover the bottom of the tray and place eggs on this soft cloth. Practical men have learned that this means better hatches and fewer chicks dead in the shell. Keep the cloth clean and scald it three or four times during the hatch. In a moist location keep the cloth moist after the first week. In a very dry location keep the cloth moist with boiled water at about 103 degrees, wetting the cloth at turning time from the first of the hatch. When machine is closed for hatching make the cloth quite wet with lukewarm water, and also sprinkle the eggs.

The little time I have experimented with this idea, I have found that some means must be used to moisten the cloth beside wetting it and placing the eggs upon it. It gets quite too cold in the operation. I believe that the use of the garden sprinkler will obviate this trouble. After the eggs are turned, sprinkle both cloth and eggs with water of the right temperature, and quickly close the machine.

The idea is passed along for others to experiment upon.

It is better never to crowd the egg tray, but put in only as many eggs as can be comfortably handled. Set only well-formed, medium-sized eggs. Be sure they are clean when put in the incubator. They will not be injured by washing.

Darkness at hatching time is best. If the machine has only a single glass door, cover it with thick cloth or paper. This is necessary to keep the chicks quiet, and prevent crowding toward the light. The wee babies need rest and perfect quiet for the first twenty-four hours.

Fresh air to breathe is their most imperative need. If they pant and blow, it is not because they are too warm, but because they need more fresh air. Have all the ventilators open, and if necessary, open the incubator door the merest trifle, inserting a match to hold it in the desired position. Unless enough fresh air is provided, bad results and an unnecessary chick mortality will follow.

Have you never noticed the dry hen-hatched chick with its head peeping out through the feathers where the warmth is to be found, and fresh air plentiful? Since we all concede that Nature knows her business, we will do well to heed her object-lessons.

Mrs. S. B. Titterington.

COMPLETING THE HATCH.

To the Editor of The Homestead:

Anyone possessed of ordinary intelligence can steer an incubator through the first eighteen days of incubation, but completing the hatch is a wholly different proposition. To anyone who has never run a machine, and possibly never seen one in operation, the first "cheep" is positively uncanny. As a novice, it was difficult for me to believe that the nineteen days of unremitting attention would be crowned with success. Was it possible that a senseless wooden piece of furniture could bring forth life? Heretofore, a defunct egg had been my Waterloo. After the hens were through hatching, I would carry the remaining eggs far out into the fields, shut my eyes, and throw them as far as I could, and then turn deserter. But you see every good sister in the neighborhood was posted as to the very hour when my new hen should hatch, and I simply could not wait forty-eight hours to know on whom the laugh would be. I surreptitiously took an egg from the hatcher, slipped it into my apron pocket, and rushed to the garden. After a moment's hesitation, I struck it sharply against a post and quickly emptied the contents on the ground. All the disgust of a bad egg was forgotten, as, fairly fascinated, I watched the living, palpitating little creature gasping in a futile struggle for existence. Then came a vague consciousness of the mischief wrought, and I returned to the house, depressed with the thought of the little curled-up creature lying out in the cold, but perfectly satisfied that the neighbors were going to be disappointed.

The chicks began to leave the shell the twentieth day, and at noon on the twenty-second day there were forty chicks from fifty-eight untested eggs. A hen, set at the same time, that was undisturbed, hatched nine chicks from sixteen eggs.

When the eggs begin to pip is the crucial test of the whole business. The animal heat will invariably raise the temperature, and under no consideration should the door be opened. The lamp is the only salvation at this period. With the coming of the first chicks, the resultant moisture lowers the temperature, and if to any great extent, with disastrous results. Keep the temperature up to 103 or 104 at all hazards, and do not, above all things, open the door and permit the

escape of the moisture which condenses on the glass. Hands off and keep cool. The chicks will gasp, of course. Let 'em gasp; they will soon find their way to the front and drop down to the nursery where they belong.

One book of instructions I read, advised that the tray be removed frequently, and the eggs that happened to lie with the pipped side down, turned. Bad advice! The moisture escaped, the eggs dried out, and by far the larger part were "dead in the shell."

The time for completion of the hatch depends on several things. Possibly the eggs were very cold when placed in the incubator, and it took a day to get up heat. If so, it is better, as haste in the matter lowers vitality. Then, too, you may have run slightly below normal temperature part of the time, which would delay development. As a rule, we remove the chicks and shells on the twenty-second day. If there yet remain any "live eggs" I wring a cloth from hot water, place it over them, turn the blaze a trifle higher, and possibly get a few more strong chicks—probably not.

Minnie G. Stearns.

USEFUL AGE OF FOWL.

To the Editor of The Homestead:

A subscriber asks concerning the most profitable age at which to dispose of chickens, ducks and geese. To this I would say that for market purposes only, chickens should not be kept to exceed eighteen months. Get your pullets to laying in the fall by getting them out early so they mature before cold weather overtakes them. From a breeder's standpoint, however, the proper age would be from two to four years. I would recommend ducks on about the same basis, except that we do not keep them to lay market eggs. Their eggs are supposed to be incubated, hence it would probably be advisable to keep

them until three or four years old, or as long as they stand well on their feet. A young duck will always lay the most eggs. Geese differ from all other fowls inasmuch as they grow better with age. A goose is just about in its prime at twenty years of age. This may surprise many, but it is true, nevertheless. Young geese never give good results in breeding.

Hatch Chickens By Steam

Make the hatching of your 1910 chicks sure and easy. Stahl's Excelsior or Wooden Hen Incubators are not experiments. They are so sure that a fertile egg means a live, healthy chick. You get real incubator value in either machine. Equip



early, and grow and market your early-hatched broilers when prices are high. Early money is the biggest. Write to-day for free catalog.

Write to-day for free catalog.
GEO. H. STAHL,
Box 7 X Quincy, Ill.

Your Name Will Get \$2 Eggs For 50 Cents Per Sitting

I will sell 2 sittings of full blood Single Comb Brown or White Leghorn Eggs for \$1 for the 2 sittings. Not less than 2 sittings sold. Eggs by the 100, \$3. Full blood White or Barred Plymouth Rock or Rhode Island Reds or Silver or White Wyandotte or W. Orpington or Rose Comb Brown Leghorn or Single Comb Black Minorca Eggs, \$1 per sitting; by the 100, \$7. Large Bronze or White Holland Turkey Eggs, \$3 for 10 Eggs. Large White Pekin Duck Eggs, \$1 for 10 Eggs. 100 egg Old Trusty Incubator, and 100 Chick Brooder, delivered at your R. R. station, both for \$14 each of the Rocky Mountains. This is a rare chance to get a start of extra fine stock and a good incubator. Send Post Office order on St. Louis and have your orders booked early.

W. F. CHAMBERLAIN, (The Perfect Chick Feed Man)
KIRKWOOD, St. Louis County, MO.



\$7.55 Buys Best 140-Egg Incubator

Double case all over; best copper tank, nursery self-regulator. Best 140 chick brooder, \$4.50. Both ordered together \$11.50. Freight Prepaid. No machines at any price are better. Write for book today or send price and save mailing. Satisfaction guaranteed.

BELLE CITY INCUBATOR CO., Box 52 Racine, Wis.

52,000 Last Year — 70,000 This!



M. M. Johnson

JOHNSON, the Old Trusty Incubator man, says to tell you that he sold 52,000 metal covered Old Trusty Incubators last year and is making prices to sell 70,000 this year. Not only making the prices, but the terms and free trials that make every purchaser safe.

Don't pay two prices for empty promises and great untried improvements. Get an incubator that proves up for you. The Old Trusty is the one that won all the prizes in the greatest hatching contest ever held in the world. It won against scores of incubators costing twice and three times as much. No other incubator came near enough to 100 per cent hatches to get a mention. Competition is quiet about it, but Johnson wants to put the proof in your hands. Write him today.

Old Trusty Asbestos and Metal Encased 30, 60 and 90 Days' Trial 10-Year Guarantee

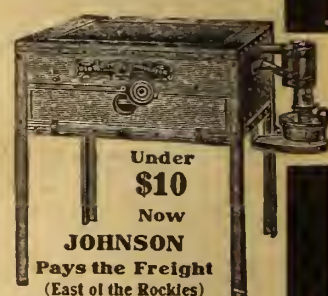
The famous Old Trusty Incubator is the one that guarantees results with either the novice or expert, 80 per cent or better hatches guaranteed, 40 to 90 days' free trial, 10-year guarantee backed by \$200,000 capital. A single hatch makes a profit on the purchase expense.

Have You Got His 1910 Old Trusty Catalog?

350 poultry pictures in the book. Every other page is a poultry sermon—common sense poultry lectures that you cannot find elsewhere. These lectures are Johnson's experience. He made his incubator working capital out of poultry raising, he has helped 225,000 other poultry raisers make money and he can help you. Write today for the catalog. Send a letter, write a postal and send it by first mail. Take Johnson's word for it, you cannot spend a little postage to such good advantage. Address

Book Free

M. M. Johnson, Incubator Man
Clay Center, Nebraska



Under \$10

Now

JOHNSON

Pays the Freight

(East of the Rockies)

ORDER A SURE AND HATCH BONDED INCUBATOR NOW

When the season opened we had nearly 50,000 incubators in our warehouse, ready to fill orders.

They are all gone but a few, and to clear them out this month we make this offer. We will send you a brooder at actual half price if you order a

SURE HATCH BONDED INCUBATOR

within the next few weeks. The Sure Hatch Incubator is guaranteed to hatch every fertile egg. Get our free catalog and read our binding guarantee. We allow you 60 days free trial. With every Sure Hatch Incubator we send a \$1,000,000 Surety Bond issued by the Bankers Surety Co., of Cleveland, O. Write to-day and get the brooder at half price. We pay the freight.



60 DAYS FREE TRIAL

Sure Hatch Incubator Co., Box 16 Fremont, Neb.

GET THIS BROODER AT ACTUAL HALF PRICE



ONE HALF PRICE

2 1/2 H.P. weighs only **300 lbs.**
3 1/2 H.P. weighs only **450 lbs.**
5 H.P. weighs only **600 lbs.**

NOVO

Gasoline
Engines

EASY TO MOVE—but strong as any engine made, for every working part is large—the base only is made lighter. Besides, they

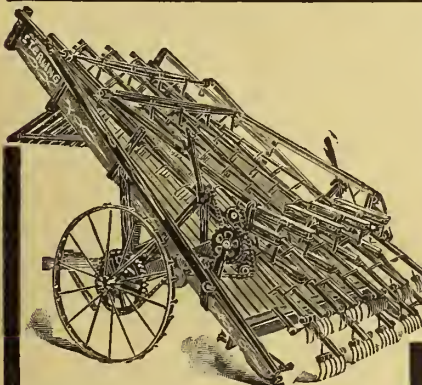
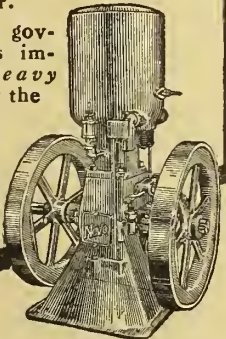
CAN'T FREEZE UP and break—an open cooler prevents. This and all our claims are guaranteed.

NO SEPARATE TANK in the Novo to bother.

The improved governor responds immediately to heavy work. Send for

Novo Engine Booklet

(It's free) and it will explain fully.
 HILDRETH MFG. CO.
 14 Willow St.
 Lansing Mich



You will need help to take care of the 1910 Hay Crop which promises to be heavy and is certain to be valuable. You will have reliable help if you employ

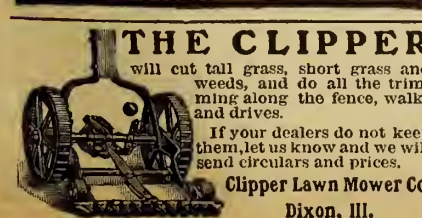
Sterling Hay Tools

They are dependable and will enable you to crowd haying operations. We make Rake Bar Loaders, Cylinder Loaders, Side Delivery Rakes, Tedders and Sulky Rakes. Write to

STERLING MANUFACTURING CO., STERLING, ILLINOIS.



Heider Eveners
 Handiest thing on the farm. Saves horses, lightens labor. 2, 3, 4, 5 and 6-horse eveners. The HEIDER 4-horse Eveners works 4-horses abreast on gang, sulky or disc plow, one horse in furrow, three on land. Works free, no side draft, coupled short all horses pull equal and easy to attach. We make Clevises to attach our eveners to all plows. HEIDER 3-horse Wagon Eveners for wagon, manure spreader, grain drill, or any other implement with pole. HEIDER Eveners have many advantages over other kinds. ASK YOUR DEALER FOR HEIDER Eveners. If he has none in stock accept no other. Write us for catalog and we will tell you where and how to get the best, strongest, most satisfactory Eveners made. We also make Wagon Doubletrees, Single-trees, Neck Yokes, etc.



THE CLIPPER
 will cut tall grass, short grass and weeds, and do all the trimming along the fence, walks and drives.
 If your dealers do not keep them, let us know and we will send circulars and prices.
Clipper Lawn Mower Co.
 Dixon, Ill.

Their eggs are small and largely infertile and the goslings that do hatch are weak, hence old geese are preferable.
 C. E. Matteson.
 Waukesha county, Wis.

HELPING CHICKS OUT OF THE SHELL.

To the Editor of The Homestead:

We see again and again in the poultry papers the assertion that a chick that has to be helped out of the shell is not worth saving. This has been proved untrue in many cases. Some time ago "Commercial Poultry" gave an instance of chicks helped from the shell that seems to me to be full of practical suggestion. A lady, writing for that journal of her experiences along this line, gave her method, which was as follows:

When she sees that a chick is not going to be able to get out of the shell, she takes it to the house, and fills a deep dish with water as hot as she can hold her hand in. She takes off what shell and skin she can, so that the head is at least free, then puts it in the basin of water, holding it in her hand and keeping the head out of the water with her thumb and forefinger. She takes sweet cream heated in a teaspoon, adds a little cayenne pepper, or, if the sweet cream is lacking, she uses warm water in conjunction with the pepper. She opens the bill and gives a few drops, and as soon as it runs down the throat, she gives it more. As the skin and shell loosen, she removes them, being careful not to pull the cord that feeds the chick. This she cuts near the shell.

She gives the cream, a little at a time, till the teaspoonful is all used up. The bath water is carefully kept at the proper temperature. As soon as the chick peeps strong, she wraps it in a warm woolen cloth, fills a hot water bag half full, puts the chick on it, and tucks it away in a warm place. In one day she puts it with the other chicks, and it is soon impossible to distinguish it from the rest. She claims to have lost but one chick since trying this method, and that one she neglected to treat, and it died in the shell. She says it has saved many chicks for them.

In one of our prominent poultry journals, a query from a California subscriber in regard to chicks being unable to get out of the shell on account of the tough, white membrane and the unyielding shell, the advice was given to dip the eggs in lukewarm water, (104 degrees) and remove at once to the nest. Dip daily after the tenth day. Making the sitting hen's nest on moist earth or on damp sod covered with soft hay or chaff, will serve the same purpose and do away with dipping.

Referring to the latter part of the advice quoted, I know it is good. Last year I tried the plan of filling the nest boxes with the fine, soft sand from the bottom of the irrigating ditches. Fill the box nearly half full of the sand, hollow it for the nest, and moisten thoroughly. Put soft hay or straw over the sand and set your hen. The sand will need wetting but seldom, and the results are very satisfactory.

As perhaps everybody knows, the "Philo system" has a plan for saving chicks stuck in the shell. All these methods, you will perceive, hinge on softening the shell and membrane, by judicious application of moisture. Any method that will disintegrate the shell as the process of incubation goes on, will solve one of the great problems, and assure a much greater degree of success than is now obtained by haphazard proceedings.

Subscriber.

FOUND AT LAST.

Dear Editor:—Knowing that bowel troubles among little chicks is one of the worst diseases we have to contend with, you may print the following, if it will benefit others:

"I have been in the poultry business for fifteen years, and have lost thousands of the little downy fellows with this most awful disease. I saw where a lady recommended Walker's Roup and Cholera Remedy, so I sent 50c for a box, to the Walker Remedy Co., Dept. U. 10, Lamoni, Iowa, and am thankful to have at last found a preventive. It is the first medicine I have found that would prevent, also

stop, bowel trouble among little chicks.

Miss A. Sargent,
 Sarcoxie, Mo.

POINTERS.

—Mr. E. A. Smith, of Decorah, Iowa, advertises White Wyandotte eggs for sale on page 24.

—Mr. O. J. Early, of Bristow, Iowa, advertises Single Comb Buff Orpington eggs for sale on page 24.

—For Barred Plymouth Rock eggs from large-boned, good layers, read the advertisement of Adella Smith, of Creston, Iowa, that appears on page 25.

—Mrs. Hattie J. Jennings, of Beaconsfield, Iowa, announces in her advertisement on page 25 that she can furnish Barred Plymouth Rock eggs from good laying stock.

—Buff Wyandotte eggs from winners at the Iowa State Fair and state show can be secured from Mr. A. E. Goodman, of Indianola, Iowa, as per advertisement on page 24.

—Mr. W. W. Neely, of Greenfield, Iowa, sells Partridge Wyandotte eggs for hatching. These are of prize-winning stock, as will be noted in the advertisement on page 24.

—A splendid White Orpington cockerel from the Kellerstrass strain is offered for sale by Messrs. Aye Bros., of Blair, Neb. This is a good bird and can be bought at a bargain.

—Dr. F. D. Miner, of Hazleton, Iowa, can furnish readers of The Homestead with Single Comb Rhode Island Red eggs from two selected pens. His advertisement appears on page 25.

—In the advertisement of Mr. F. S. Thompson, of Algona, Iowa, appearing on page 24 of this issue, Homestead readers will find quotations on Black Langshan eggs. Mr. Thompson breeds this variety exclusively.

—Mrs. S. C. Darling, of Lytton, Iowa, advertises on this page that she has Rouen duck eggs for sale. She states that her ducks are very choice ones, fit for shows and that the eggs will undoubtedly hatch stock capable of taking premiums.

—Mr. I. E. Miner, of Bussey, Iowa, is making a big reduction in the price of his Single Comb Buff Orpington, Light Brahma and Buff Plymouth Rock eggs for hatching. This is certainly a chance to get good eggs cheap. His advertisement appears on page 25.

—Mr. C. K. Loveland, of Janesville, Iowa, in furnishing copy for his Single Comb Rhode Island Red egg advertisement that appears on page 24, writes that by careful selection he has built up a flock of good layers with good, even color and up to standard in every way. He can furnish eggs on short notice.

—Mr. Johnson Allen, of Earlville, Iowa, is offering White Wyandotte eggs for sale in his advertisement on page 24. In furnishing copy he writes: "My birds are in good shape and having unlimited range the eggs should be exceptionally fertile. I think I am in a position to give customers as good satisfaction as I have for the last fifteen years. I can truthfully say that in that time I have had but one complaint."

—Mr. J. D. Smith, of Montezuma, Iowa, has been a breeder of Silver Laced Wyandottes, Bronze turkeys, Pekin ducks and Embden geese for the past twelve years and each year endeavors to have them better. His highest ambition is size and egg production. He has satisfied customers all over the United States and parties wishing testimonials and catalog should write him at once. They are free for everybody interested. Men-

tion The Homestead. See advertisement on page 25.

—Mrs. John Glebe, of Beaver City, Neb., is offering White Plymouth Rock eggs for sale in her advertisement on page 25.

—Mr. Grant Gallaher, of Spencer, Iowa, is offering Mammoth Bronze turkey eggs for sale in his advertisement that appears on page 25. He also announces to Homestead readers that he has six grand yards of Barred Plymouth Rocks of the Iowa King and Giant strains. He has eggs and show stock for sale at reasonable prices. His flocks are headed by first, second, third and fifth-prize cockerels at the Northern Iowa Fanciers' Show.

—Miss Margaret C. Daly, of Anamosa, Iowa, whose advertisement of Black Langshans will be found on page 24 of this paper, writes under date of April 8th, saying: "I am getting good returns from my advertisement in The Homestead. I am also making many sales to old customers who have in previous years bought either stock or eggs and were well enough satisfied to come back. While we are supposed to give only fifteen eggs for a sitting, we always put in an extra egg and in this way, as well as others, show our intent to do a little more than we say we will."

—Mr. M. V. Leeper, of Redfield, Iowa, advertises Barred Plymouth Rock eggs on this page. Mr. Leeper writes concerning his stock as follows: "My Barred Plymouth Rock eggs are proving from 80 to 86 per cent fertile. I can furnish them in 100-egg lots on short notice. My turkeys are laying well now and I can furnish eggs at the rate of one sitting per day. The Poland China male hogs I am offering for sale are sired by Pease's Perfection and Deitrich's Darkness. They will weigh from 550 to 600 pounds in thin flesh and are fit to head almost any breeder's herd."

White Wyandotte Eggs.

On page 24 of this week's issue will be found the advertisement of Mr. A. J. Podendorf, of Logan, Iowa, who is offering strictly choice White Wyandotte eggs for sale at \$1.50 per fifteen. In his letter of recent date he says: "We have by far the best flock of chickens that we have ever owned. They are of the stay-white kind and are absolutely free from brass." Read the advertisement and then send Mr. Podendorf your order.

Barred Rocks—Toulouse Geese.

We desire to call attention to the advertisement of Mrs. James Cockerton, of Whiting, Iowa, on page 25. She has one of the best flocks of Barred Plymouth Rocks in the West and one of the best flocks of Toulouse geese in the United States. That is saying a good deal, but that is strictly right. Her Barred Rocks are of the Baldwin, Russell, Easton and McClain strains and she is offering eggs at \$1 per sitting or \$5 per 100. She is selling geese eggs at twenty-five cents apiece and you can't beat them anywhere. Send Mrs. Cockerton an order and you will be well pleased.

Ask your neighbor to subscribe for The Homestead.

TOO LATE TO CLASSIFY.

EGGS—BARRED ROCKS—

BRONZE turkey eggs; Barred Rocks, special mating, 16 eggs, \$1; \$5.50 per 100. Farm range, 30 eggs, \$1; \$3.25 per 100. Bronze turkey eggs, 30c per egg, 11 eggs, \$3. Also 2-year-old registered Poland China male hogs. M. V. Leeper, Redfield, Iowa.

Rouen Duck Eggs from Choice Stock
 12 for \$1. Address Mrs. C. S. Darling, Lytton, Iowa.

PROTECTION from LIGHTNING is what this TRADE MARK represents



In the last sixty years, more property—live stock, grain and buildings—and more human lives have been saved by COLE BROS. FRANKLIN LIGHTNING ROD than by any other Rod ever made. That is because it is a perfect and scientific Lightning Rod, and the *only* Rod whose efficiency has never been sacrificed or cheapened.

COLE BROS. FRANKLIN LIGHTNING ROD

is the world standard of protection; not the cheapest but the best. Its patent couplings, bronze and platinum points and ground connections form a *continuous* channel, by which electricity passes off to the earth as harmlessly as water from your roof. Every foot *guaranteed*.

BEWARE of cheap imitations and flimsy wire substitutes offered by the unscrupulous. Look for the initials CBFR on every section and for the full trade mark as above on all packages. Don't take anyone's word for CBFR it, see that they are there for yourself. These letters are CBFR YOUR Protection as well as OURS. When it comes to protecting life and property remember that Cole Bros. Franklin Lightning Rod has *never failed* in sixty years.

COLE BROS. LIGHTNING ROD COMPANY

310 to 320 South Seventh St., St. Louis, Mo.

OLDEST LARGEST BEST

A MILLION Incubator Chicks DIE EVERY DAY

We have a HOME remedy that will positively prevent or cure any kind of bowel trouble in young chicks at any age. Send us the names of 5 to 8 of your friends that use incubators, and we will send you this information free, and allow you 25c for sending us the names. This will be worth \$100 to you this summer. Send the names today; the information is free.

Rulsall Remedy Co., Blackwell, Okla.

DOGS.

SCOTCH Collie pups, sable, black and white, over four months old, from trained parents; eligible males, \$8; females, \$7. F. Bollman, Wall Lake, Ia.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

SCOTCH Collie pups by imported sires at \$10 to \$25 each. Send for sale list of brood bitches, open and bred. P. L. Savage, St. Charles, Illinois.

FOR SALE Pedigreed, rough-coated Scotch Collie pups, \$5 and \$7. Mrs. A. N. Bonnett, Birmingham, Iowa.

LANGSHANS.

BLACK LANGSHAN EGGS FOR SALE

FROM high-scoring birds, 15 for \$1; 100 for \$4.50. Safe delivery and satisfaction guaranteed. MRS. JAS. H. ALLEN, New Sharon, Ia.

BLACK LANGSHANS

BRED exclusively for 16 years. There is none better and I guarantee satisfaction. Eggs for hatching \$1 for 15 or 30 for \$1.50. Remember that the best are the cheapest. O. H. Stillson, Corwith, Ia.

My Black Langshans Have won 59 regular and special premiums, including three silver cups during the past show season, and have laid during the coldest weather. Eggs, \$1, 15; \$5, 100. Margaret C. Daly, R. 4, Anamosa, Iowa.

McDUFF'S Black Langshans bred exclusively. Won at best shows. Prices, \$2 per 15, \$3 per 15, \$5 per 15. If you want size and color, write me. R. G. McDuff, Monroe, Iowa.

BLACK LANGSHAN Eggs for sale: \$1 for fifteen eggs; \$2.50 for 45 eggs. Incubator lots, \$3 per 100 eggs. H. M. McKeen, Sac City, Iowa.

BLACK LANGSHAN cockerels—A few more to sell at \$1 each from high-scoring stock. Eggs in season. Address Mrs. Sarah F. McKeen, Sac City, Ia.

BLACK LANGSHAN Eggs for sale from large thrifty birds, farm range, \$1.00 per 15; \$1.00 per 100. Address, J. H. Rayl, Afton, Iowa.

Black Langshan eggs, 20, \$1; \$4.50, 100. Large birds; hens 10 lbs., eels, 12, many scoring 95. Mrs. Geo. Tutt, Marathon, Ia.

Prize-Winning B. Langshans exclusively, scoring to 94% at Dubuque by Lambert, Eggs, 13, \$5c.; 26, \$1.50; 100, \$4.50. W. W. Baskerville, Earlville, Ia.

Black Langshans Bred exclusively; farm range; prize winners. Eggs, \$1 per 15; \$4 per 100. F. S. Thompson, Algona, Iowa.

BEST Farm-raised Black Langshans; high-scoring stock; good size, shape, color. Eggs, 100, \$4; 15, \$1. Frank Townsend, Ashton, Ia.

ORPINGTONS.

S. C. BUFF ORPINGTONS Cook strain direct. Eggs, \$2 per 15; \$10 per hundred. B. S. Long, Little Sioux, Iowa.

ORPINGTONS, S. C. Buff. A fine stock. Farm raised. Eggs 15, \$1.50; 30, \$2.00; 50, \$3.00; 100, \$5. Address, Dan McCarthy, Winthrop, Iowa.

Buff Orpington Eggs from prize-winning birds, \$1.50 to \$3 per 15; also orders booked for baby chicks. Mrs. O. A. Mae, Bedford, Ia.

Buff Orpington Eggs from scored pens. Eggs from a fine pen of Houdans. Write me. Mrs. Chas. Gatches, Floyd, Iowa.

ORPINGTONS (Buff). Greatest winter-laying hens in the world. Eggs for sale. Free catalog. Prewitt, R. 5, Onawa, Iowa.

S. C. Buff Orpingtons Eggs for hatching; \$1.50, 15; \$7, 100. Fertile eggs guaranteed. Frank Ruffoth, Earlville, Iowa.

S. C. Buff Orpingtons Cook strain; eggs for hatching, 15, \$1.50; 30, \$2.50. Address Mrs. Geo. Haas, Shelby, Iowa.

S. C. Buff, Black, White and R. C. White scored eels. Won hundreds of prizes. Eggs, \$1.50 up. Hens with baby chicks. Mating list. Dr. Evans, Legrand, Ia.

S. C. BUFF ORPINGTONS Good shape, size or color; free range eggs, \$4 per 100; 75c. per 15. Address O. J. Early, Bristow, Ia.

BRAHMAS.

Ottumwa POULTRY YARDS: Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

LIGHT BRAHMA Eggs for hatching; 30 for \$1.25; 50 for \$2; 100 for \$3.25. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

LIGHT BRAHMAS Eggs, \$1 per 15; all unfertile eggs replaced at half price. Stock for sale. H. F. Moffitt, Afton, Iowa.

BABY CHICKS.

BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

Baby Chicks S. C. W. Leghorns a specialty. In shipments, 25 or more. Orders filled in rotation. Highland Poultry Farm, Hazleton, Ia.

LEGHORNS.

LEGHORNS

DAY old chicks, \$1.50 per dozen. Rose Comb Brown Leghorn eggs from high-scoring pens, \$1.50 per 15. Fertility guaranteed.

Mrs. W. E. Newell, Route 2, Altoona, Iowa.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$5; 200 for \$9.

T. A. DAVENPORT, BELMOND, IOWA.

"MONEY IN EGGS"

S. C. Brown Leghorns—My method and farm range has developed layers with vigor. My eggs produce layers. One-third fancier's price and better layers, \$1.50 per 30; \$3 per 60; \$4 per 100; \$6 per 200. Prompt shipment. J. K. McCarthy, Enfield, Ill.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY, 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1; 50, \$3; 100, \$6; 200, \$9.

R. R. STEWART, R. 2, Charles City, Iowa.

S. C. Brown Leghorns Iowa State Show farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

Selected Fertile Eggs From special egg strains; farm raised, thoroughbred R. & S. C. W. Leghorn hens. Mated for egg production and vigorous chicks. \$2.50 per 30; \$6 per 100. Chas. G. Jackson, Prescott, Iowa.

Single Comb White Leghorns

BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketcham, Box 300, Booneville, Ind.

Rose Comb Brown Leghorns

EXCLUSIVELY; farm range, prize winning stock; eggs, 18, \$1; \$3.50 per 100. Chas. Applegate, Afton, Iowa.

Rose Comb Brown Leghorns

Bred 17 years for quality and eggs. None better regardless of price. 20 eggs \$1; 50, \$2.50; 100, \$4; 200, \$7. Address ELLA THARP, MT. STERLING, IOWA.

ROSE COMB Brown Leghorns exclusively. High-scoring and high-class utility stock. Eggs for hatching, \$1 for 15; \$1 for 100. Address, E. G. Roberts, Route 2, Afton, Iowa.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5, 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. Sunny Slope Poultry Yards, Oskaloosa, Iowa.

Rose Comb Brown Leghorns exclusively. Eggs for hatching, \$3.50, 100. Also Rounen duck eggs. Write F. Bowman, R. 6, Eldora, Ia.

S. C. Brown Leghorn Eggs Two sittings, \$2; express prepaid. Address Nellie Cahow, Greenfield, Iowa.

S. C. B. Leghorn eggs for hatching, 75c. per 15; at reduced rates on incubator lots. FRED D. FOUSER, Beaconsfield, Ia.

S. C. W. LEGHORNS The bred-to-lay strain. Pen scoring 94, 15 eggs \$1. Farm flock \$3.50, 100. Geo. Gaul, Tipton, Ia.

Rose Comb White Leghorn eggs for hatching; 15 for \$1; 30 for \$1.75; or 100 at \$4. Address F. A. HAM, Saronville, Nebraska.

Single Comb Brown Leghorn eggs from birds scoring 90 to 95; 75c. per 15; \$3 per 100. Mrs. Wm. Hudson, Lake City, Iowa.

S. C. W. Leghorn eggs; first pen headed by chl. direct from Young. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

Single Comb White Leghorns Eggs, \$1 per 20. M. E. Page, Madrid, Iowa.

SINGLE COMB BROWN Leghorn eggs, \$1 for 15; \$4 for 100. Mrs. F. O. Racine, Route 5, Shenandoah, Iowa.

R. C. B. Leghorn eggs, Kulp's strain; bred for quality; egg production; standard shape; color; eggs, 50, \$2.50; 100, \$4. Mrs. L. W. Renaud, Bondurant, Ia.

Rose Comb Brown Leghorn Eggs at 75c. per 15 for \$3.50 per 100. Mrs. John Roskamp, Kanawha, Iowa.

SINGLE COMB WHITE LEGHORNS. Eggs, 15 for \$1.25, \$5 per 100. S. C. Rhode Island Red eggs, 15 for \$1.50. Star Poultry Farm, Eddyville, Ia.

Single Comb White Leghorns. Eggs from choice matings, \$1.50 for 15, express prepaid. Address, ARLIE TOOM, Pella, Iowa.

Rose Comb White Leghorn 219 egg strain, snow white. Many will score 96. \$1.50, 15. \$2.50, 30. Mrs. Geo. Tutt, Marathon, Iowa.

ROSE COMB BROWN LEGHORN EGGS At 50c per 15; or \$3 per 100. PLOWMAN BROS., Donds Leandro, Iowa.

S. C. B. LEGHORNS Eggs pure blood farm range at \$1 per 100 or \$1 per sitting. Mrs. H. C. LAMBERT, ANTHON, IOWA.

S. C. BROWN Leghorn eggs from prize-winners. S. C. W. Won on every entry at the Iowa State Show January, 1909. Mrs. Clyde Nelson, Birmingham, Ia.

Very Choice Eggs for hatching; Rose Comb B. Leghorns; farm range; 50 eggs, \$2.50; 100, \$4. Mrs. Nelson Hyde, Manson, Iowa.

Eggs for Sale From my pure-bred Rose Comb Brown Leghorns, \$3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

EGGS From high-scoring S. C. W. Leghorns; choice exhibition matings; also W. Cochlin bantams. Circular free. C. H. Drake, Hazleton, Ia.

S. C. W. Leghorn Wyckoff strain of eggs, \$1 and \$2 per 15. Day old chicks. Send for circular. Mrs. Wilson McIntyre, Red Oak, Iowa. Route 6.

S. C. Brown Leghorns Pure stock; eggs, \$1 per 15; \$1.50 per 30; \$1 per 100. Address Mrs. A. Goode, Russell, Iowa.

GEESSE.

TOULOUSE GEESSE EGGS For sale, \$1.50 per seven eggs. W. A. Brown, Route 2, Box 76, Monroe, Iowa.

RHODE ISLAND REDS.

S. C. Rhode Island Reds

TOMPKINS' strain. America's finest. Large, long-bodied, vigorous birds. Red to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$3 per 100. Circular free.

R. H. DE VAULT, BLOOMFIELD, IOWA.

REDS—BOTH COMBS—GREAT EGG RECORD

10 CENTS for color lesson, illustrated by feathers. How to mate for best results. Who are fake advertisers. Egg catalog free. Foundation stock from the best eastern and southern strains.

Mrs. F. W. McIntyre, R. 5, Red Oak, Iowa.

Reds—Single and Rose Comb

CHARLES City, 1910; Shanklin, Judge. S. C. won first, second pullet, second cockerel, second pen; 4 premiums on 6 entries. Scored range stock eggs, \$5 per 100. Choice matings, \$2, \$3 and \$5 per 15. Guaranteed good hatch. F. O. Martin, Floyd, Iowa.

S. C. Rhode Island Reds

TOMPKINS STRAIN

Write for egg circular.

P. H. Thiel, Renwick, Humboldt Co., Iowa.

Rose Comb Cherry Reds 20th Century birds, selected eggs (fertility guaranteed), from high-scoring, good-laying strains. Farm range, 17 eggs, \$2; 50, \$5; 100, \$8. This ad. mailed with order brings 5 additional eggs. My birds better than ever. Orders filled promptly. Write for circular. W. W. Forbes, Box 710, Jefferson, Iowa.

R. C. Rhode Island Reds

EXCLUSIVELY. Eggs for hatching from stock scoring 90 to 94%. Write for prices and show record. H. S. Pain, Emmetsburg, Iowa.

S. C. RHODE ISLAND REDS

EGGS for hatching from choice pen, \$1 per 15. Exhibition pens, \$2 and \$3, birds scoring to 94%. Deep red, not buff or smutty. Start with the best. Satis. guaranteed. L. G. Johnson, Steamboat Rock, Ia.

S. C. RHODE ISLAND REDS

THAT are real Reds, the stay-red kind, with a smooth, even, glossy color. Eggs; pens, \$3 per 15; utility or run of pens, \$1 per 15; \$5 per 100.

F. L. REINHARD & SON, Ottumwa, Iowa.

S. C. R. I. REDS

BRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. M. Finkenhausen, Ellsworth, Ia.

THOROUGHbred Rose Comb Rhode Island Red eggs. Strong, vigorous flock. Pen No. 1, headed by high-scored cockerel, 15 eggs, \$1.25; 30 eggs, \$2.25. Pen No. 2, 100 eggs, \$4.50; 50 eggs, \$2.40. Miss E. C. Powers, Osage, Iowa.

"BIRDS THAT LAY AND PAY" R. C. R. I. Reds exclusively; pen 1, trapped, 15 eggs, \$2; pen 2, 15 eggs, \$1.50; incubator lots, \$6 per 100. Bourbon Red turkey eggs, \$5 per 12. MRS. CLIFF SAID, EMERSON, IOWA.

Eggs for Hatching From S. C. R. I. Reds. Special attention given to the laying as well as exhibition qualities. Also three grand matings of B. P. Rocks. C. H. Drake, Hazleton, Ia.

S. C. R. I. RED EGGS 15 for \$1.50; 30 for \$2.50; 108 for \$6.00. J. T. NICHOLSON, Bellevue, Iowa.

S. C. R. I. Red cockerels for sale; scored and unscored. Eggs for sale. Write for prices. Mrs. H. L. Alsop, Sylvia, Iowa.

R. C. R. I. Reds, Cherry Red strain. Eggs from 5 pens; also utility yard, scored cockerels for sale. Harry C. Blake, Maquoketa, Ia.

SINGLE COMB RHODE ISLAND REDS Pen, \$3; range, \$1 per 15 eggs.

S. T. BUSSARD, BOX 143, ESSEX, IOWA.

S. C. R. I. Red eggs from three special mated pens. Write for egg circular. Incubator eggs, \$3 per 50; \$5 per 100. Frank Chalupa, R. 2, Pleasant Plain, Ia.

ROSE and Single Comb R. I. Reds; fine bred; high scoring eggs, 15 for \$1, 50 for \$3, 100 for \$5. Good laying strains. Mrs. T. A. Gough, Bristow, Iowa.

R. C. Rhode Island Reds; winners; score 91 to 93%; red to skin; eggs, \$2 for 15; \$5 for 45. John Hettich, Poultry Judge, Bowling Green, Mo.

ROSE COMB Reds. Trap-nested for great egg production. Beautifully illus. instructive, descriptive catalog free. Iowa Poultry Farm, Gilmore City, Ia.

S. C. R. I. Red eggs from high scoring stock, that are proven winter layers; perfect type and color; \$1.25 per 15; \$5 per 100. C. W. Kellogg, Kintner, Iowa.

EGGS FOR SALE S. C. R. I. Reds; first pen, \$2 for 15; second pen, \$1 for 15 eggs. E. Radebaugh, Rippey, Iowa.

S. C. R. I. Red Eggs \$1 for 15; \$5 for 100; fine bred; good laying strain. Address Mrs. Sophia Rader, Laurel, Iowa.

ROSE COMB Rhode Island Reds. Eggs from selected layers, \$1.25 for 15; \$3 for 45; \$5 for 100. D. Rich, Mt. Pleasant, Iowa.

S. C. R. I. REDS Eggs from fine matings, at \$1 per 15; \$5 per 100. Address I. C. WELCH, Bedford, Iowa.

Rose Comb R. I. Red eggs for hatching. Special matings, \$1.50 for 15; general flock, 75c. for 15. A. A. Worthington, Media, Illinois.

S. C. R. I. Reds Exclusively. Stock for sale; scored or unscored. Eggs in season. J. T. Nicholson, Bellevue, Iowa.

Rose Comb Rhode Island Red eggs from pen scoring 90 to 93; 15, \$1.25; 50, \$3; 100, \$5. Address WM. GRAHAM, KIRKMAN, IOWA.

S. C. R. I. Red Eggs Pure stock; No. 1, \$1; range, 75c. per 15; cheaper at home. Mrs. E. Sauerberg, Stanton, Iowa.

EGGS S. C. R. I. Reds, Tompkins strain. Two pens, \$2 and \$1.25 per 15; \$5, 100. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

R. C. R. I. R. Eggs from high scoring stock, \$1.25 per 15, \$3.00 per 50, \$5.00 per 100. D. E. Wimer, Polk, Iowa.

S. C. Rhode Island Reds exclusively; free range, good layers; eggs, \$5 for 100, \$1 per sitting. Write me. Address C. K. Loveland, Janesville, Iowa.

R. C. R. I. RED EGGS

\$1.50 for 30. Edith Replinger, What Cheer, Iowa.

WYANDOTTES.

50 WHITE WYANDOTTES

of my great laying strain for sale. They are beauties. Write me about them. Cockerels, cocks, hens and pullets, show birds, fancy breeders, and a few good birds at farmers' price. If you want a single bird, a pair, a trio, or a pen, I can please you. Write me at once stating just what you want. Eggs from my great laying strain at \$1.50 per 15, \$7.50 per 105. I have been with this breed for years and I can please you if quality is desired.

S. Harr, Riverside, Iowa.

WHITE WYANDOTTE EGGS

FROM stock scoring 93 to 96 by Russell; many of them first-prize winners. From best pens, \$3 for 15; \$5 for 30. Range, \$1.50 for 15; \$5 for 105. Guarantee fertility and safe delivery.

GEO. W. LIVINGSTON, MONROE, IOWA.

WHITE WYANDOTTE EGGS

FROM stay-white kind. Our birds are absolutely free from brass; good eyes and comb; very large, good shape; best of laying strain; eggs, \$1.50 per 15; \$2.25 per 30; \$6 per 100. Guarantee 75% to hatch or will replace at ½ price. A. J. Podendorf, Logan, Ia.

CHALKY WYANDOTTES

We pay express. Circular free. CEDAR LAWN POULTRY AND STOCK FARM, Fairfield, Neb.

WHITE Wyandottes of quality. This proves it. Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank. J. M. Erichson, Slater, Ia.

SILVER WYANDOTTES

Eggs, 15 for \$1; 45 for \$2.50; 100 for \$5. Twenty-three years a breeder. O. M. Henly, Bedford, Iowa.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3, 15. Special prices on larger lots. Mrs. W. F. Prater, R. 6, Atlantic, Ia.

White Wyandottes Fine large vigorous bloody birds. Farm range eggs for hatching, 15 for \$1.25, 30 for \$2.25, 50 for \$3.50, 100 for \$6.00. Mrs. C. A. Robinson, Griswold, Iowa.

White Wyandottes Exclusively. Eggs from two pens scoring from 92 to 94% by Todd. Pen 1, \$2 per 15; pen 2, \$1.50 per 15; Flock, \$1.25 per 15. I. J. HAY, MINGO, IOWA.

Partridge Wyandottes A pen of selected females, grand penning, rich mahogany, headed by 1st chl. at Ia. State Fair. Eggs, \$1.50, 15. W. W. Neely, Greenfield, Iowa.

WYANDOTTES

White, Buff, Golden, S. Laced eggs, 15, \$1.50; 30, \$2.50; 50, \$3.50; 100, \$6. A. L. Anderson, Indianola, Iowa.

Silver Laced Wyandottes Utility flocks of choice young birds at bargain prices. Send for list of offerings. Eggs for hatching, \$1 for 15. W. B. Lloyd, Kimmund, Ill.

WHITE WYANDOTTE EGGS

PLYMOUTH ROCKS.

BARRED PLYMOUTH ROCKS

COCKEREL pens headed by first-prize winner at Des Moines Poultry Show, 1908, and birds of equal merit. Females consist of pullets sired by the State Fair first-prize cockerel and the hens that produced them. Pullet pens are Blue Belle strain, and contain first-prize hen, State Fair, 1908; second-prize hen and pullet, Des Moines Poultry Show, 1908. Eggs, special pens, \$5 for 15; others, \$2.25 for 15. **E. M. CATHART, CHARTER OAK, IA.**

219 Egg Strain Barred P. Rocks

THEY win and lay and pay their own way. They have for Hartman and can for you. Eggs for hatching from all pens \$1.50 for 15, \$2.50 for 30, \$3.50 for 50 and \$6.00 per 100. Special mating \$3.00 for 15, \$5.00 for 30, and \$8.00 for 50. **W. A. HARTMAN, Box 242, Winterset, Iowa.**

**Strater Bros., Monroe, Ia.**

BREEDERS of exhibition Barred Plymouth Rocks 31 years. They are good layers, with large size, and have that deep, blue, straight barring. Eggs, \$1.50 per 15; \$2.50 per 30. Special exhibition mating, \$3 per 15; \$5 per 30; guaranteed fresh and fertile.

Barred Plymouth Rock Eggs

FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weigh 10 to 12 lbs.; Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guarantee good hatch and safe delivery. Catalog free. **S. V. LATCHAM, MONTEZUMA, IOWA.**

BARRED ROCK EGGS

FROM extra fine hens mated with the males I had in my pens last season. Scored from 91% to 92% by Russell and Southard. Send for a true-to-life photo. Eggs \$1, 15. Eggs from pens \$5 per 15. Address **J. W. HOPSON, BEDFORD, IOWA.**

WILKINSON'S WHITE ROCKS

LARGE boned, typical shape, snow white, 93% to 95 points. Eggs for hatching, \$2 per 15. If you want winter layers, I can please you. **W. T. WILKINSON, Rosedale Farm, E. Des Moines, Ia.**

Barred Plymouth Rock Eggs

OUR yards represent Hawkins, Bradley and Thompson strains, and descendants of leading prize winners. 18 eggs, \$1; 40, \$2; 100, \$4.50. A fair hatch and safe delivery guaranteed. **H. C. SAUNDERS & SON, Montezuma, Iowa.**

BARRED PLYMOUTH ROCK EGGS

THOMPSON & Bradley strains from high scoring males and females. Pen A—pullet mating. Pen B—cockerel mating. The very choicest. Address **MRS. L. C. REESE, PRESCOTT, IOWA.**

Barred Rocks of Quality

THE kind that win; heavy boned, snappy barred, with the style and finish that has made our Rocks famous. Pens, \$3 per 15; run of pens, \$5 per 100. **F. L. Reinhard & Son, Ottumwa, Iowa.**

Barred Rock EGGS

FROM high-scoring, farm-range stock, with heavy bone, small comb and clear, narrow barring. Twelve years' experience; satisfaction guaranteed; pens, \$1.50 per 15; range flock, \$1. Mrs. Chas. Murphy, Dexter, Ia.

Barred P. Rock Eggs

from Blake's Improved egg-laying strain. Write for prices and my secret for raising better layers. **GEO. F. BLAKE, MAQUOKETA, IOWA.**

CRAY'S

Barred Plymouth Rock Eggs for sale from 50c to \$5.00 per sitting of 15 eggs. Incubator eggs \$3.00 per 100. Write for my free egg circular. **J. H. Cray, Wellman, Iowa.**

White Plymouth Rock Eggs

Large, high-scoring birds; pen 1, \$1.50, 15; pen 2, \$1.15; \$2.50, 45; \$5.00, 100. **Hennessy Bros., Strawberry Point, Ia.**

WHITE ROCKS

Trapnested, large, snow white, prize winners, heavy layers. Cockerels \$2.50 up. 15 eggs \$3, \$2 and \$1. Address **Rev. James A. Slack - Yorktown, Iowa.**

Barred Plymouth Rocks

exclusively. Eggs from high scoring birds. Largest type, best breeding and marking. Bradley strain \$2.00 per 15. **Mrs. S. M. Thompson, Birmingham, Iowa.**

BUFF ROCK EGGS

From a strain of fine winter layers, \$1.50 per 15; \$4.50 per 50; \$3 per 100. **L. L. Woods, Grinnell, Iowa.**

White P. Rock Eggs

15 for \$1.50; 30 for \$2; 100 for \$5; from prize-winners and scored stock; Fishel strain. **Mrs. E. C. Turner, R. 1, Griswold, Ia.**

BUFF Rock Eggs

for sale; \$1 per 15; \$4.00 per 100. My birds are large with good shape and color, farm raised. **Mrs. J. C. Anderson, Oskaloosa, Iowa.**

White Rock

Eggs, Fishel strain, pure white \$1.00 for 15; \$5.00 per 100. **Mrs. Melvin Baird, Red Oak, Iowa, R. 8.**

BARRED P. Rocks

exclusively, large bones, good barring. Farm range eggs for hatching 15, \$1; 30, \$1.50; 100, \$4.00. **Mrs. I. S. Battles, Mitchellville, Iowa.**

Barred Rock Eggs

\$1.50 to \$3 for 15. Blood for farmer and breeder. Pure Bradley stock, 10 lb. pullets. **Earl Bloom, Bridgewater, Ia.**

BARRED ROCK EGGS

\$1 per 15; \$4 per 100. **Mrs. J. A. Campbell, Manning, Iowa.**

BRADLEY STRAIN BARRED ROCKS

Eggs from pens \$1.50 per 15; from flock \$1. **Mrs. Geo. Dawdy, Abingdon, Ill.**

18 B. P. Rock

cockerels; strong, vigorous birds, with great size and quality, and narrow, deep barring. Some show birds. **C. G. Good, Ogden, Ia.**

Barred P. Rocks

Eggs for hatching, "Shella- barger strain," both matings. Eggs, \$1 per 15; **R. I. Hawthorne, West Liberty, Ia.**

Barred Plymouth Rock Eggs

At \$1 for 15; \$2.25 per 100. **Mrs. Sidney Hunt, R. 3, Earlville, Ia.**

PURE bred W. P. Rock

eggs for sale from scored birds. Special price, \$1 per 13 eggs. Also a few fine ecks. **White Rock Poultry Farm, Earlville, Ia.**

EXCLUSIVELY—Barred Plymouth Rock

eggs from healthy, large stock \$1 per 15, \$2.50 per 50, \$4 per 100. Address **S. S. Krebill, Donnellson, Ia.**

Barred Rock

Eggs for hatching from extra heavy stock; \$1 per 15; \$5 per 100. **MRS. W. S. KERN, IOWA CITY, IOWA.**

PLYMOUTH ROCKS.

Hawkins', Felch's and Thompson's

LINE BRED Barred Plymouth Rocks; 1st premium won wherever shown. Yards headed by high scoring exhibition cockerels. Every male bird used in 1909, and for past ten years we bought from A. C. Hawkins' and E. B. Thompson's Madison Square Garden prize-winning pen and L. K. Felch's reserved pens, and sell 18 eggs for \$1; 40 for \$2; 100 for \$4.50. This year we paid Thompson \$11.75 for one cockerel. They are an unbroken line of prize winners, weight standard and above. I mate them by standard rules. Fertility guaranteed. I am an expert caponizer. Catalog free.

REUBEN E. SANDERS, MONTEZUMA, IA.

EVERGREENLAWN FARM

M. Hummel, Prop. Monroe, Iowa.

EGGS—EGGS—EGGS—FOR HATCHING

BREEDER of Barred P. Rocks exclusively for 27 years. Yards headed by cocks and cockerels scoring 92 points; first prize winners weighing 11 to 13 lbs.; hens and pullets weighing 8 to 11 lbs., with that deep strain blue barring. Eggs, \$1.50 per 15; \$2.50 per 30. Prompt shipment; eggs guaranteed fertile.

B. P. ROCK

Eggs for sale from extra large-boned, nicely-marked stock; yards headed by cocks and cockerels scoring 90 to 92%; weighing 11 to 13 lbs. In five showings, including Central Iowa Show, 1909, Russell, judge, we won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths. 15 eggs, \$1.50; 30, \$2.50; guaranteed fertile. **J. W. Wagner, Monroe, Ia.**

BARRED ROCK EGGS

From winners, Heavy layers and payers, \$1.25 to \$4 for 15. Bright, Bradley and Latham strains, line bred. Satisfaction in hatch, quality, and results assured. Send for my free, handsome new catalog. Don't delay; write today. **J. H. Chandler, R. 1, Des Moines, Ia.**

For Sale—Barred Plymouth Rock Eggs

FROM high-scoring females, mated to pure Bradley cockerels. Also a special cockerel mating, all pure Bradley birds. The very choicest stock. Address **Mrs. E. H. Pullman, Box 755, Lenox, Iowa.**

Barred Rock Eggs

Three yards of specially mated large hens and pullets; males rangy, evenly colored, line bred, large boned, deeply marked, double matings. Eggs, \$1.50, 15; \$2.50, 30. **J. O. Becker, Chariton, Ia.**

Fancy Bred Barred Plymouth Rocks

EXCLUSIVELY.

Eggs, \$1 for 15; \$1.75 for 30; \$5 for 100. **A. O. Lokken, Alta, Ia.**

Barred Plymouth Rocks

Farm range eggs, \$2.50 per 50; \$4 per 100. **Anthony O'Connell, Lost Nation, Iowa.**

Buff Rocks

The ideal farmer's fowl—winners highest awards Iowa State and other leading shows this season. Stock and eggs for sale. **C. & C. T. VAN LINT, Pella, Iowa.**

Eggs B. Rock, \$1 per 15; \$5 per 100.

Geese eggs 25c. etc. Also some geese yet or sale, both sexes. Letters from satisfied customers, not one complaint. **MRS. J. COCKERTON, Whiting, Iowa.**

Eckert White Rocks

were winners at Manning and Sioux City shows, scoring to 96. Eggs from grand pens, \$3 per 15. **F. H. ECKERT, Charter Oak, Iowa.**

Eggs From our famous laying strain of White Plymouth Rocks

are plentiful and at right prices. Address **T. F. Martin, - - Maxwell, Iowa.**

BARRED P. ROCK EGGS

\$1 for 15; \$5 for 100; farm range. **Mrs. J. L. Myers, Roslyn Farm, Almont, Iowa.**

White P. Rock

Eggs from snow white birds; excellent layers; \$1.25 per 15; \$5 per 100. **Frank Nordstrum, Aurelia, Iowa.**

WHITE Plymouth Rock eggs

\$1 per 15; \$2.50 per 50; \$4 per 100. Will sell a few hens at \$1 each. Address **Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.**

B. P. ROCKS only.

Large boned, well bar., good layers, high scoring, prize win., thrifty birds, fair deal. Eggs, \$1.25; 100, \$3. **J. M. Reeder, Earlville, Ia.**

Buff Plymouth Rock Eggs

For hatching, from high- scoring pens, \$1.50 per 15; \$6 per hundred. **E. C. RICE, GRAY, IOWA.**

BARRED ROCKS

Large, heavy-boned cks. Eggs in season from prize-winning strain. **Frank Santee, What Cheer, Ia.**

SMITH'S Buff Rocks.

Eggs for hatching from my choice flock of Buff Rocks; fine layers; 15 eggs, \$1; 100 eggs, \$6. **C. F. Smith, Route 5, Griswold, Iowa.**

Buff Plymouth Rocks

and eggs at reasonable prices. Farm raised, of choice quality. Address **Mrs. M. C. Thompson, Route 2, Atlantic, Ia.**

White Plymouth Rock

eggs from scored stock of Fishel strain, \$1 for 15; \$5 for 105. **J. B. TRACY, Greene, Iowa.**

EGGS From Barred Plymouth Rocks.

Heavyweight fowls a specialty. Write for prices. **L. D. Wells, Morrisville, Ill.**

Buff Plymouth Rock

Eggs for hatching, at \$1 per sitting or \$5 per 100. Address **O. N. WOODY, Route 3, NEWTON, IOWA.**

Wright's Famous "bred-to-lay" strain

Barred Plymouth Rocks. A few good cockerels for sale. **Lafe D. Wright, Knoxville, Iowa.**

BARRED P. Rocks

exclusively. Eggs from large- boned, good-shaped, well-barred birds, \$1.25, 15; \$2.25, 30; \$3, 50; \$5, 100. **Arthur T. White, Emerson, Ia.**

READ this if you want Barred or White Rock eggs,

order at once. Either variety, 15 eggs, \$1.50; 30, \$2.50; 45, \$3; 100, \$6.50. **Theo. Martin, Bellevue, Iowa.**

Barred Rocks

Large boned, good layers, farm raised; \$4 per hundred; \$1 per fifteen. **Adella Smith, Route 4, Creston, Iowa.**

Barred P. Rock Eggs

From good laying stock; 75c per 15; 45, \$2; 4, 100. Address **Mrs. Hattie J. Jennings, Beaconsfield, Iowa.**

White Plymouth Rock Eggs

One dollar per 15; \$2.50 for 50. **Mrs. John Glebe, Beaver City, Nebraska.**

MINORCAS.

S. C. BLACK MINORCAS

EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. **Nick Loewen, Lawler Poultry Yards, Lawler, Ia.**

S. C. B. Minorca

eggs for hatching, from first-class stock; \$1.25 for 15 eggs; \$5 for 100 eggs. Incubator lots a specialty. **H. A. Wohlsdorf, Lawler, Iowa.**

DUCKS.

Indian Runner Duck Eggs for Sale

9, \$1; 100, \$7. Write **T. P. OVERTON, Tracy, Ia.**

INDIAN

Runner ducks; imported stock. Orders booked for eggs at \$2 per 15. Pure fawn and white. **F. L. Reinhard & Son, Ottumwa, Iowa.**

CORNISH INDIAN GAMES.

PURE CORNISH INDIANS

CORNISH Indians exclusively. Eggs for hatching from best of matings. Prices right. Address **Mrs. John E. Griffith, R. 9, Washington, Ia.**

MISCELLANEOUS.

S. C. BROWN LEGHORN EGGS

I am offering eggs from very large stock and the best of laying strains at 75 cents per sitting of 15. I can also furnish incubator hatches on short notice at \$4 per 100. **Barred Plymouth Rock** eggs from Ringlet strains, raised on separate farm, at \$1 per 15, or \$4.50 per 100. Address

H. FESSENMEYER, CLARINDA, IOWA.

Eggs For Hatching

FROM farm range stock; Barred Plymouth Rock, Buff Plymouth Rock and Single Comb Brown Leghorn. Prices reasonable. Circular free. **C. E. MATTESON, Pewaukee, Wisconsin.**

Eggs from High-Scoring, Prize-Winning

B. and W. P. Rocks, W. and S. Laced Wyandottes, S. C. W. and Brown Leghorns and Golden Sebright Bantams at \$1.50 per 15. Extra fine M. B. turkey and Toulouse geese eggs at 30 cents per egg. Circular free. **Frank Koeneu, Route 4, Mankato, Minnesota.**

S. C. BUFF

Leghorns; pure Tecktonite strain; eggs, \$2 per 15; utility Buifs, \$1.50 per 15; Golden Sebright bantam eggs, \$2 per 15. **S. C. Brown Leghorns, pure Cook strain, pullet** mating; eggs, \$2 per 15. **S. C. White Leghorns, pure W. D. Young strain;** eggs, \$2 per 15. Address **JOHN KEARVILLE, CENTERVILLE, IA.**

MAMMOTH BRONZE TURKEY EGGS

IOWA King and Giant strain eggs from six grand yards of B. P. Rocks. Show stock at reasonable price. Our flocks are headed by first, second, third and fifth prize cks. at Northern Iowa Fancier Show. Send for mating list. **Grant Gallaher, Spencer, Ia.**

Free To Everybody

INTERESTED in S. L. Wyandottes, Pekin ducks, Bronze turkeys and Embden geese, my 1910 catalog and mating list. Drop me a card. Ready now. **J. D. Smith, Route 3, Montezuma, Iowa.**

WANTED TO BUY—Thoroughbred poultry

and eggs for hatching. Want Mammoth Bronze and White Holland turkey eggs, Indian Runner and Pekin duck eggs; also Golden Wyandotte eggs. We also want to buy many varieties of pure-bred poultry. **Dean Swift Poultry Co., Des Moines, Ia.**

White Plymouth Rocks

and S. C. W. Leg- horn eggs at 75c. a sitting. Prize-winning stock. You cannot get anything better for five times the money. Address, **Charles L. Berry, Route 6, Iowa City, Iowa.**

White Holland Turkeys

B. P. Rocks, Pekin ducks; extra large, high-scoring prize winners. Ten turkey eggs, \$3; fifteen Barred Rock, \$1.50, from laying strain; ten duck, \$1.50. Address **Fred Post, Moulton, Iowa.**

S. C. R. I. REDS

EGGS from two selected pens, S. C. R. I. Reds. Eggs for exhibition quality, and heavy winter layers. Eggs from flock on free range. Have some extra quality W. Orpingtons and S. C. W. Leghorn eggs. Mating list free. **Dr. F. D. Miner, Hazleton, Ia.**

S. C. R. I. REDS BARRED ROCKS

15 eggs \$1; 100, \$5.

E. E. HEALY

— BEDFORD, IOWA.

EGGS

S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility results and highest fancy attainment. Also baby chicks. Address **M. E. Birchard, Hazleton, Iowa.**

WHITE Wyandottes and Buff Orpingtons;

extra good birds, true to type farm range, bred from birds scoring 92 to 95%; satisfaction guaranteed. Eggs, \$1 per 15; \$2.50 for 50. **Carl J. Hedberg, Boxholm, Ia.**

S. C. B. Leghorns

\$3.50 per 100; Light Brahmans, 75c. for 15; B. P. Rock, 75c. for 15; Pekin duck, \$1 for 11; Toulouse geese, \$1 for 6. **J. M. CRAIG, Route 1, DANBURY, IOWA.**

EGGS

R. I. Red, W. Orpington, S. L. Wy- andotte, all Rose C. Pekin and Indian Runner ducks, all bred for size and egg production. Send for circular. **P. F. Smith, Montezuma, Ia.**

BLACK LANGSHANS AND RHODE ISLAND REDS

Eggs, \$1 for 13; \$5 per 100.

MRS. H. A. SEXSMITH, Greenfield, Iowa.**S. & R. C. Brown Leghorn.**

S. L. Wyandotte Eggs, 1st and 2nd prize State Fair winners in pens. 15, \$1.25; 30, \$2.00; 50, \$3.00. S. C. eggs from flock \$4.00, 100. **Mrs. Will Michael, Selma, Ia.**

EGGS

Mammoth Pekin, W. Wyandotte; also Wyandotte cks.; scored stock; sure to please. **E. S. Dyas, Bellevue, Iowa.**

B. P. Rock Eggs

26, \$1; 100, \$3. M. B. turkey eggs, \$2.50 for 11. A few good cockerels for sale. **Robert Hunt, Earlville, Iowa.**

FOR SALE—R. I. Red, Embden geese and Pekin

BAD ROADS COST IOWA \$6,000,000 EACH YEAR.

Bad roads in Iowa cost the farmers of this state about \$6,000,000 in 1909, says the Des Moines Capital. This year it is estimated the loss will be \$7,000,000 because of increase in the price of farm products and increased production and even greater next year unless they are improved. Although the farmer did not have to draw on his check book for this \$6,000,000 he was the loser because of:

Inability to deliver his products to the market at the time when the highest prices prevailed.

Inability to haul as heavy loads as would have been possible on good, improved roads.

Waste and misuse of the county road funds.

These three conditions eat up the biggest part of his profit on his produce. They caused a clear loss of what would have been a clear profit. So isn't it time to wake up to these conditions and this year put the estimated loss of \$7,000,000 on the credit instead of the debit side of the ledger?

As the farm production increases and the prices on the market increase the farmers' loss increases if bad roads prevent him from marketing his product at the opportune time. Good roads are the railroad of the farmer; they are the highways by which he reaches the market which consumes his product. It is as necessary that they be kept in good condition as it is that the road bed of any railroad be perfect. An approved railroad system brings in bigger profits than an unimproved one—good roads will yield a bigger profit to the farmer than poor roads.

Statistics show that the highest prices for farm products and live stock are paid when the country roads are the worst. The more impassable the country roads, thus preventing the farmer from getting his product to the market, the higher the prices. The result is he must sit at home and watch the profits on his products slipping through his fingers—merely because he cannot reach the market.

Other statistics show that it costs thirty times as much to haul farm products over an Iowa dirt road as it does by rail. Senator John H. Bankhead, of Alabama, compiled statistics showing that it cost only sixteen cents to haul by rail 100 pounds of corn from St. Louis to New Orleans and that the expense for hauling the same corn 8.8 miles over an Iowa dirt road from the farm for the market was ten cents. To haul 100 pounds of wheat by rail from Chicago to Buffalo it cost twenty-two cents. To haul the same wheat from Ankeny to Des Moines, about six miles, the cost to the farmer is seven cents. What more could illustrate more forcibly the need of better roads?

The estimate of the loss to Iowa farmers because of the bad roads is obtained from that made by B. F. Yoakum, chairman of the board of directors of the Rock Island railroad. He says that bad roads cause a loss in profits to the farmers of this country of \$250,000,000 a year.

Mind you, that is loss in profits, not in sales. Iowa farmers by that estimate would lose \$5,000,000 annually if the loss were apportioned evenly. But the loss to Iowa farmers must be greater than any other state—many times greater than most states—for Iowa is the greatest agricultural state in the country and more farm products go over the country roads to the markets consuming them. That is why Iowa farmers are among the heaviest losers.

If Iowa is to continue as the greatest producing state in the world it must improve its roads. The light haul traffic is estimated at 55,000,000 tons a year—covering 350,000,000 miles. And most of that over bad roads. Iowa might continue to carry on this enormous traffic over poor roads, but the fact must be realized that the social advantages alone of good roads will outweigh the cost of making and maintenance.

England spends \$400 a mile every year to maintain the roads of that empire. Iowa spends an amount equivalent to \$50 a mile or about \$100 to \$300 a mile on such roads as need attention. Still the wealth of the taxpayers of Iowa doubles that of England—

LANDS AND HOMES FOR SALE

Homes in the Rosebud Country

CROPS sure; good water; delightful climate. We have a few more good relinquishments in Trip County. They will not last long. Improved farms, raw land and stock ranches. Write for land lists, or any information desired. **F. W. RATHMAN LAND CO., DALLAS, SOUTH DAKOTA.**

South Dakota Farms for Sale

A GOOD $\frac{1}{2}$ section 4 miles from Carthage, in Kingsbury County; all fenced; all tillable; except 5 acres watered by running stream. Price, \$47.50 per acre. Write for our complete list. Lands in corn belt region of South Dakota. **WESTERN LAND SECURITY CO., SIOUX FALLS, SOUTH DAKOTA.**

MONTANA LANDS

Write today for our beautifully illustrated folder about the famous wheat and alfalfa lands in fertile Cascade county, Northern Montana. We can sell you land that will produce 30 to 50 bu. of wheat to the acre at \$15 to \$25 per acre. Improved farms \$20 to \$40 per acre. Best soil; plenty of rainfall; perfect climate the whole year round.

ASK FOR OUR FREE FARE COUPON AND LIST OF DEEDED LANDS.

M. A. STRANG LAND CO. GREAT FALLS, MONT.

"Montana's Leading Land Firm."

READ THIS!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

A REAL BARGAIN

160 ACRES of choice heavy black land, with clay sub-soil. This land produces all kinds of crops, such as wheat, oats, rye, speltz, corn, alfalfa, potatoes, etc. The average rainfall for the past ten years is twenty-nine inches. Two years' crops pays for the land. \$3,000 buys the 160 acres; \$1,000 cash, balance on time. Address: **L. W. Hagg, 340 New York Life Building, Kansas City, Mo.**

KANSAS LAND FOR SALE

ONE of the best sections of land in Hamilton county, Kansas, at \$10 per acre, $\frac{1}{2}$ cash, balance at 6%. Also a few good quarters at the same price. **J. B. Pratt, County Treasurer, Syracuse, Kansas.**

MARYLAND—\$10 acre up. Stock, hay, wheat, corn, buckwheat, clover, potatoes, sweet potatoes, melons, strawberries, poultry; great proposition for farmer, homeseeker; two crops year; mild, healthful climate; level land. **R. C. Drew, Salisbury, Md.**

the difference being that England has good roads, Iowa has poor roads.

The "mud tax" is the heaviest made on Iowa people. The difference between it and other taxation is that they don't have to march up to the county treasurer every March. That makes it seem like a saving, but was it, considering that in 1909 Iowa farmers let \$6,000,000 in profits slip through their fingers?

Most of this mud tax doubtless comes from the inability of the producer to market his produce when the prices are good—when the competition is least. That is what makes \$11 hogs—more so than the decrease in production. The demand was greater when the roads were impassable. The result is the hog raiser who had to feed his hogs all winter, being unable to get them to market, is the loser.

Another expense is the inability to haul as big a load as could be hauled over good roads. That doesn't seem large, but say that 300,000 farmers can haul only thirty bushels of corn because of the roads when on good roads they could haul from sixty to 100 bushels with ease. See the great difference?

Then comes the waste of road money. An estimate has been made that the state every year wastes \$3,500,000 of the road funds. It wasn't distributed along the roadside, but was spent in a manner from which no permanent good resulted.

So the farmer has been paying out every year his money for road improvement to see it sunk in highways which became more impassable every spring and put into bridges that broke under the weight of traction engines.

The result is that something must be done. Some means must be devised for the spending of this money so that permanent improvements will be made. If it means new laws, new laws are needed. Meanwhile the farmer must pay the bill. In 1908 the road tax amounted to \$5,100,000, of which \$2,200,000 went into bridges.

The farmer is not the only victim of the state's antiquated policy of

IRRIGATED LAND

\$20 TO \$50 PER ACRE

In the Bear River Valley located in the northeast part of Utah. This is not desert, but ranch land that has been under cultivation and irrigation for years. Fences, buildings and other improvements go with the land; 5,000 acres to be sold in any amount desired. Large amount seeded to alfalfa. The water supply is assured. The irrigation system complete, fully paid for and in successful operation for years. The soil is rich, producing good crops of alfalfa, timothy, wheat, oats, barley, rye, potatoes, etc. Local markets and close to Salt Lake City, Ogden and Denver. The climate is perfect. At \$20 to \$50 per acre this is a land bargain you cannot afford to overlook. Write for full particulars.

QUINLAN & TYSON, 106 Dearborn St., Chicago, Ill.

A Home For You

IN the famous Arkansas Valley of Colorado, with perpetual water right. The soil is rich and deep, producing all kinds of crops. Alfalfa, wheat, oats, barley, sugar beets, potatoes, cantaloupes, fruits and berries, grown here. Big demand for poultry and honey. A few tracts offered at \$30 per acre (water included) on terms without interest. This land will double in value after the first year; railroads and good markets. Your fare paid if you buy 80 acres or up. Write for illustrated maps and booklet. Farmers wanted not speculators.

Monson & Malcom Realty Co., 300 Kittredge Bldg., Denver, Colorado.

A FARM BARGAIN

IT'S mighty hard to buy a farm in Western Iowa. Without buildings, for less than \$75 an acre. I own a good stock and grain farm in Sac County, Ia., 5 miles from Sac City, 4 miles from Nemaha; 30 acres timbered; some fine hay and pasture. Buildings consist of frame house 5 rooms, barn 42x56. Loan \$10,000, 5% can remain. Get busy if you want to buy this farm at a bargain. A bargain in Iowa dirt—210 acres joins a good town of 800, near Catholic school and church; also M. E. church and public high school, fairly well improved; part the farm lies inside city limits. Original purchase was 240 acres, the balance having been sold for town dwelling purposes. This farm is a bargain at \$80 an acre; \$7,500 can remain at 5%. Get busy on this. **S. R. Lucas, ANTHON, IOWA.**

... BUY ... South Dakota Land

KADOKA, STANLEY COUNTY.

RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gilt-edge farm mortgages for sale. For description, write **F. E. Reidinger Land Agency, Kadoka, S. D.**

MONTANA FARMS

In the Big Basin Country The greatest agricultural country in the world that grows wheat, oats, alfalfa and garden stuff without irrigation, and has won more prizes at the different expositions than any country in the world. Farms at \$15 to \$30 per acre, and one crop pays for your farm. Send for our free booklet and descriptions of wheat farms. **Great Falls Land & Livestock Co., P. O. Box 330, Great Falls, Montana.**

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address **BERT I. WELD, SLAYTON, MINNESOTA.**

FINE Iowa farm for sale. Half section highly improved; six miles from Sioux City; house, fine barn; good system of water works; good orchard; fine grove; near school, and everything to make it a fine farm. Owner, **J. A. Whitaker, Sioux City, Ia.**

For Sale, S. Dak. and Minn. Farm Land

IN the corn and tame grass belt from \$20 to \$75 per acre. Write for information and literature. The Farmers' Land & Loan Co., Sioux Falls, S. Dakota.

Buy Corn Belt Lands In the Famous Montevideo black loam prairie district of S. W. Minnesota. \$30 per acre and up. Free pictorial and descriptive price list. Address **E. H. Crandall, The Land Man, Montevideo, Minn.**

Iowa Lands For Sale in Howard county, \$50 to \$90 per acre. Large list on request. Address: **SPAULDING & O'DONELL, Elma, Iowa.**

SUMNER COUNTY, KANSAS, FARMS

H. H. Stewart & Son, Wellington, Kansas.

WESTERN CANADA

What Governor Deneen, of Illinois, Says About It:

Governor Deneen, of Illinois, owns a section of land in Saskatchewan, Canada. He has said in an interview: "As an American I am delighted to see the remarkable progress of Western Canada. Our people are flocking across the boundary in thousands, and I have not yet met one who admitted he had made a mistake. They are all doing well. There is scarcely a community in the Middle or Western States that has not a representative in Manitoba, Saskatchewan or Alberta."

125 Million Bushels of Wheat in 1909

Western Canada field crops for 1909 will easily bring \$170,000,000.00 in cash.

Free Homesteads of 160 acres, and pre-emption of 160 acres at \$3.00 an acre. Railway and Land Companies have land for sale at reasonable prices. Many farmers have paid for their land out of the proceeds of one crop. Splendid climate, good schools, excellent railway accommodation, low freight rates, wood, water and lumber easily obtainable. For pamphlet "Last Best West," particulars as to suitable location and low settlers' rate, apply to Sup't of Immigration, Ottawa, Can., or to the Canadian Government Agent. (5) **W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.**

SELL YOUR FARM

And buy a new one FIVE TIMES AS BIG in the Tramping Lake and Houghton Lake Districts

SASKATCHEWAN, CANADA

WHY? Because you can make more than five times the profits. Send for our free booklets. Our first excursion of this season leaves St. Paul, Minn., Wednesday, April 20th. GO WITH US. Low fare—Berths and Meals \$1.50 per day. **240 Germania Life Bldg., ST. PAUL, MINN. LUSE LAND & DEVELOPMENT CO., Ltd.**

YOU Can make more money in the Real Estate business, with less capital than anything else. We teach you The Real Estate Business through our instruction department and then appoint you our agent in your territory and work with you. Live men make

\$3,000 to \$10,000 a Year If you are ambitious and want to get into a good business for yourself, write us today and we will send you our FREE booklet telling you HOW we teach you "The Real Estate Business."

Instruction Department, **MORDEN LAND AND LOAN CO., 535 Palace Bldg., Minneapolis, Minn.**

Buy British Columbia Fruit Land At \$5 An Acre

WILD land, \$2 per acre; improved farms \$5 per acre in Province Alberta and Saskatchewan. Your last chance for cheap land. I have hundreds of parties wishing to sell homesteads and wild land, send \$1 and I will send you a list of ten names of parties that have land for sale, and if you fail to make purchase, I will send you another list of ten names free. I know all of this country and will give you all the information as to location and soil. Be sure and write your name and address plain. **Kamloop Information Bureau, Kamloop, B. C.**

Come to Williston, N. D.

FINE soil; good water; wheat yields 25 bushels; other grains and vegetables in proportion. Land \$15 to \$25 per acre. One crop pays for the land. Write me today. Can prove this statement. Williston has 5,000 population and growing rapidly. Write me for information and list of lands. Better buy now. Land will never be any cheaper. Two new railroads building into Williston. Homeseekers' tickets all good for stop over at Williston. **H. V. SMITH, WILLISTON, N. DAKOTA.**

IOWA CORN AND ALFALFA FARMS

No better corn farms in the corn belt. No better alfalfa land anywhere. No better winter wheat land anywhere. No waste land; no wet land. No sand; no gravel. Just rich, deep, black soil. The only section in Iowa where corn and alfalfa are both extensively and successfully produced. For sale by **H. L. CRAVEN & CO., OMAHA, IOWA.** Ask for new free list.

CROP PAYMENT PLAN

I OWN forty quarter sections of land in Minnesota and North Dakota that I will sell in 160 acre farms on the crop payment plan to experienced farmers who can furnish good recommendation. **D. J. McMahon, Endicott Bldg., St. Paul, Minn.**

HOMESEEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address **The Allen Co. Investment Co., Longton, Kan.**

A BARGAIN; for sale by owner, 80 acres all under fence; 36 in cultivation; balance pasture; timber, orchard oranges, figs, pears. Five-room house with hall; cistern; good well; implements, stock. Reason I am selling, I am a tool-maker; no farmer. Address **Frank Schramm, Aldine, Harris Co., Tex.**

treating the road question. Although it may not press upon him so heavily and directly the city dweller must share a portion of the burden. It reaches him in the shape of higher prices if he is a consumer and in a loss of trade if he be a merchant.

Country merchants throughout the state estimate their loss of trade last fall and winter owing to the bad condition of the roads at from 12 to 20 per cent. Wishing to obtain some definite information along this line Secretary Thomas H. MacDonald, of the highway commission, recently wrote to a large number of merchants in country towns throughout the state inquiring what effect the bad roads have had on their business this winter. The replies are unanimous in declaring that there has been a falling off in trade due to the bad conditions of the roads and the estimates of the exact amount range from 15 to 20 per cent.

In Cuyahoga county, in which the city of Cleveland, Ohio, is located, they have advanced beyond the stage of wondering whether it pays to improve the roads. They are now hurrying as fast as they can to pave every important rural highway in the county.

Meat eating is on the increase in Japan and for some time past the Japanese government, under direct encouragement from the emperor, has been devoting attention to the improvement of Japanese cattle. The head of the cattle breeding department of the Japanese government, Mr. Hashimoto, is at present visiting England to make purchases of stock. According to Mr. Hashimoto "the Japanese peasant does not eat much rice; it is too dear. Barley, vegetables and fish are his staple foods. The upper and middle classes, however, who have hitherto eaten large quantities of rice, are now slowly beginning to add meat to their dietary. Beef is the favorite dish. It is cut up small, boiled with a native bean sauce and vegetables, and eaten with the hashi or chopsticks. The wholesale price of beef in Japan is about twelve cents a pound."

A conductor on an extra train, heard a rooster crowing repeatedly one night last week. The way bills did not show that chickens were part of his freight that night and when the Gap was reached he investigated and found that a game cock was bumming a ride on the brakeroads of the caboose. The conductor captured the bird and has him on exhibition, claiming that he is the only hobo rooster in the world.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending April 10, 1910:

After a winter of unusually heavy snowfall and steady cold weather, the crop season of 1910 opens under very favorable conditions, and from four to five weeks earlier than last year. The larger part of the state was covered with ice and snow from December 5, 1909, to the end of February, which afforded good protection to grasses and winter grains, and prevented the soil from freezing except on the surface. Although the snow melted rapidly during the last two or three days of February and the first week of March, most of the water was absorbed by the soil. The last month was the warmest and probably the driest March in the history of the state. The temperature was continuously and, most of the time, abnormally high; and as there was no snow and only a little rain, farm operations began much earlier than usual. The remaining 20 per cent of last year's corn crop was gathered, most of the spring wheat and fully 50 per cent of the oats were sown; plum trees were coming in bloom, many of the forest trees, pastures and meadows were green; much of the corn ground had been plowed; gardens made and some vegetables up by the end of the month.

Since the first of April the weather has continued favorable for farm work. The seeding of small grain is nearly completed and rapid progress has been made in preparing the ground for corn. During the last week the temperature was above the normal, although light frosts occurred on the 6th and 7th. Copious showers occurred over the southern and eastern counties, but fair weather continued over the northwestern districts, and in the latter sections the surface soil is becoming dry. Spring wheat and oats show a good stand except in western and northwestern counties where oats, sown broadcast and not well covered are germinating unevenly. Winter grains, pastures and meadows are generally in

good condition, but reports indicate some winter killing, especially in western and southern counties. The indications are favorable for an increased acreage of oats. Many potatoes have been planted. Good seed corn is scarce.

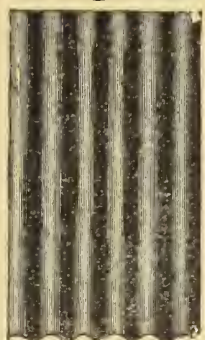
The following is a summary of the reports received by the secretary of the state horticultural society showing the average condition of fruit trees on April 1st:

Apples, 85 per cent; pears, 80; American plums, 89; Domestic plums, 70; Japanese plums, 69; cherries, 83; peaches, 3; grapes, 80; red raspberries, 52; black raspberries 53; blackberries, 65; strawberries, 86 per cent. Peach trees are badly injured in many places; raspberry canes are killed to the ground in some localities; climbing roses are also damaged. The injury to trees and plants is attributed to the freeze in October which caused the leaves to fall before the wood was mature, followed by warm, wet weather which pushed bud development on the defoliated plants too far in the fall to withstand the winter.

Bloom on plum and cherry trees is two weeks in advance of 1871, the earliest record we have since the society was organized.

Geo. M. Chappel,
Station Director.

ROOFING



**GALVANIZED,
CORRUGATED,
STANDING
SEAM, Etc.**

Cheaper Than Shingles.
Will Last 30 to 40 Years.

Lightning proof, fire proof, hail proof. Anyone can put it on, over old shingles or on skeleton frame. Just the thing for barns and all kinds of farm buildings. No painting. No other roofing of like cost has all these merits. Write for prices, catalog and samples. This ad. will not appear next week.

**STEEL ROOFING AND STAMPING WORKS
DES MOINES, IOWA.**

BANDMEN

Earn GOOD MONEY Everywhere

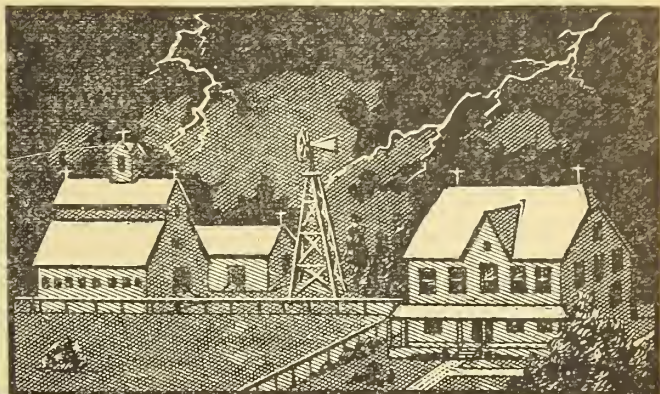
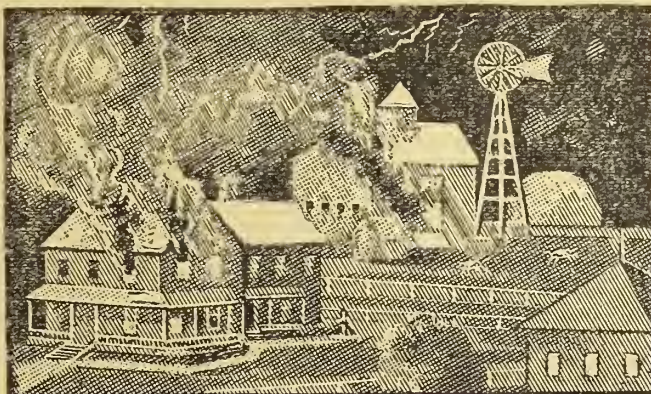
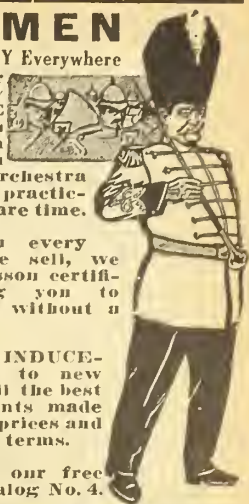
Learn to be a musician by our FREE METHOD. You can become an expert with any band or orchestra instrument by practicing in your spare time.

FREE—With every instrument we sell, we give a fifty-lesson certificate enabling you to learn to play without a teacher.

SPECIAL INDUCEMENTS made to new bands. We sell the best band instruments made at the lowest prices and on the easiest terms.

WRITE for our free illustrated catalog No. 4.

J. W. JENKINS SONS' MUSIC COMPANY,
1013-15 Walnut Street, KANSAS CITY, MISSOURI.



Lightning Got There First

111 fire insurance companies report 2960 fire losses in one state in one year—2165 were caused by lightning—only 795 from all other causes combined. Think of it, 75% of all losses—lightning.

D. & S. Got There First

365 days every year D. & S. Woven Copper Cable Lightning Rod and D. & S. System of Installation afford the only safe and reliable protection against loss by lightning. Think of it, 100% safety.



PROF. WEST DODD,
President of Dodd & Struthers, is the scientist who has taught the world how to control lightning.



BENJAMIN FRANKLIN,
the scientist who taught the world what lightning really is by a simple experiment of kite flying.

Not since the days of Franklin has any scientist done as much to protect life and property from the destructive consequences of lightning as has

PROF. WEST DODD

the inventor of the D. & S. System of lightning rod construction. The basis of this great claim is due to his very important inventions for making woven copper cable lightning rod and equipment for lightning rod construction.

EVERY TIME

LIGHTNING STRIKES

This is What D. & S. Means to You

Absolute protection for your home and the farm buildings. Perfect safety for yourself, your family, your stock and your harvested crops and other property.

IT PAYS FOR ITSELF.—Leading fire insurance companies of the world (list of them sent on request) will allow 10 to 33% per cent off your insurance bills when your buildings are rodded with D. & S. Woven Copper Cable Lightning Rods. Thus the D. & S. Rod pays for itself and then begins to save you money when your next insurance bills come due.

It is the only rod endorsed by the Mutual Insurance Companies of the United States and Canada—this absolutely regardless of all claims made by agents other than our own. "Beware of frauds."

PROTECTION AGAINST FRAUDS.—For your own safety insist on and accept nothing but the only genuine lightning rod ever invented—

THE ROD TRADE MARKED D. & S.—A product of the highest and finest grade materials and workmanship obtainable; 30 pure soft copper wires so scientifically and ingeniously arranged that the entire surface of each wire has its full independent power for work.

THE D. & S. SYSTEM OF INSTALLATION is acknowledged by leading fire insurance companies of the world to be the best ever invented. The best rod made may prove worthless unless it is properly installed. Our representatives and dealers are installation experts. We can afford no others.

Numerous unscrupulous persons advertise and endeavor to sell imitation lightning rods and system of installation which they take pride in craftily claiming are like the D. & S. Woven Copper Cable Lightning Rod and System of Installation.

WE APPRECIATE COMPLIMENTS—but—if you want reliable protection and profitable returns for your money buy the cable trade-marked D. & S. It is fully guaranteed forever. A guarantee we make legally binding. To you it means protection from loss. (Fully explained in catalogue. Send for it, without fail.)

HONESTY—RELIABILITY—INTEGRITY.—When you buy D. & S. rods you deal with a reliable and long established business concern—the originators of the lightning rod in its perfection as it is known and best appreciated by those who understand its great value. For convincing references address the People's Saving Bank, Des Moines, Ia., or consult your own banker.

"Thousands of satisfied customers are our best advertisements—they know they are safely protected." More D. & S. Rods sold than any other three makes combined.

Make yourself, your family and your property safe.

To-day—without fail—fill out this coupon and mail to
Dodd & Struthers, 417 Sixth Avenue, Des Moines, Iowa

Please mail without cost to me Prof. West Dodd's Book, "The Laws and Nature of Lightning." Also tell me how to save money on insurance.

Name.....

Town.....

State.....

R. F. D.

NEWTON'S HEAVE COUGH, DISTEMPER AND INDIGESTION CURE



The Standard Veterinary Remedy.
20 years sale. Send for booklet.

Makes the horse sound, stay sound

DEATH TO HEAVES

The first or second \$1.00 can cures. The third can is guaranteed to cure or money refunded.
\$1.00 per can at dealers, or express prepaid.

THE NEWTON REMEDY CO., Toledo, Ohio

You Are Feeding WORMS

Get **MORRIS' ENGLISH WORM POWDER**
and losing dollars. Night and day they eat, RAT, EAT your profits. They cause disease and often death to stock, also seriously retard growth—all at your expense. Get rid of them completely, quickly with Morris' English Worm Powder, the old reliable worm remedy. Tones the system, puts vim in the blood—makes horses, sheep and hogs look better—thrive better and keep healthier. No drenching—simply add to feed. Try it. 50c at druggists or sent prepaid.

WELLS MEDICINE COMPANY,
18 Third Street, LaFayette, Ind.

MILK FEVER OUTFITS Dehorners, Teat Siphons, Sitters, Dilators, etc. Received only Award World's Fairs, Chicago, St. Louis. Write for illustrated catalog. Haussmann & Dunn Co., 392 South Clark St., Chicago, Ill.

A. S. ALEXANDER, V. S.
MADISON, WIS.,
Veterinary Editor The Homestead.
CONSULTING VETERINARIAN. Advice and prescription by mail, \$1.00.

When writing mention this paper.



PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

LACK OF APPETITE.
I have a six-year-old black standard-bred horse that will eat but very little. His bowels are in good shape and hair looks good and sleek, but he is thin in flesh. He feels good and I have had his teeth examined by a competent veterinarian. He is driven for exercise, but eats only a very little shelled corn, which is the only thing he will eat. Please inform me what to do.

Have him clipped if coat is long and coarse. See that stable is perfectly ventilated. Give half a dram of fluid extract of nuxvomica, two drams of fluid extract of gentian root and half an ounce of pure alcohol in half a pint of water as a drench half an hour before meals until he regains appetite. If worms are present give treatment such as we have so often prescribed here.

LEUCORRHEA.
I would like to know through your veterinary columns what treatment a person should use on a mare that has the whites. I should like to have her bred and get in foal. The mare is about twelve years old.

Once daily by means of a clean hose and funnel or fountain syringe flush out the vagina with two gallons of lukewarm 1 per cent solution of permanganate of potash and in a week change to a similar solution of coal-tar disinfectant and then to one of hyposulphite of soda half ounce, warm

water two gallons. Alternate these remedies at intervals of a week or ten days and keep on until abnormal discharge subsides.

INJURED HOCK.

I have a bay horse coming six years old, weighing about 1,250 pounds, that hurt himself about sixty days ago. I had him shod with sharp toe and calks and he hit himself with his own shoe while rolling in the stable, striking his right hoof between the wart and cap. It did not amount to anything at first, but in the last few weeks it has become quite sore and painful. I had a graduate veterinarian look at the horse some time ago, but he did not do much; said he would be a good while getting well. The inside, where the calk penetrated is swollen as large as a pint cup. The opening is small, about the size of a rye straw, and I can't get to the matter; have blistered quite often. The veterinarian used iodine on tape pushed in opening with probe and thought that might cause matter, but with no success. I have bathed with arnica and used oil meal poultice. While standing, he stands on this leg about half the time and when he tries to walk, goes on his toe most of the time. Occasionally he places his foot right, but limps badly. I keep him quiet as much as possible. There is no proud flesh nor offensive smell. The horse looks well and feels good. If you can advise me a remedy to use for a speedy cure, I would appreciate it very much.

Employ another graduate veterinarian, as there seems to be an abscess present and if that is so it will have to be opened. Meanwhile clip off the hair and rub in citrine ointment once a week. Such cases are serious and need expert attention.

DISTEMPER.

I have a sorrel mare, four years old, that has a lump at the back end of her jaw, a little higher than her throat. She had a sort of distemper just before this and I thought she was just about over it, but tonight I first noticed the swelling. She never ran at the nose, but had trouble while drinking, as the water came out of her nose. Please let me know what I can do for her. She eats well. I had her running on wheat pasture the last few days, but decided, on seeing the swelling tonight, to keep her in the barn. Is green wheat pasture good for her? She was bred last Monday. I thought she was all right or I would not have bred her. What can I do to keep the other horses from getting distemper? They all had it last spring. The sorrel mare is a very valuable animal. I have only had her a month.

One attack of distemper usually renders the horse immune to further attacks. The only possible way to prevent susceptible horses from contracting the disease is to immunize with anti-streptococcal serum. Any graduate veterinarian can use this preventive for you. Poultice the forming abscess with hot flaxseed meal until it softens; then open it for evacuation of pus and afterward inject a 2 per cent solution of coal-tar disinfectant twice a day until the pus ceases to flow.

ABNORMAL URINE.

(1) I have a horse that is losing flesh and has symptoms of kidney trouble. He urinates freely enough, although his urine is as red as blood. He has been this way for about six months and today he had a sick spell lasting about two hours. He lay down and rolled and seemed to be very hot, and breathed very fast. He eats and drinks heartily, has run on pasture all winter and has eaten corn and hay. He is about fourteen years old and weighs about 1,100 pounds. He has always been in good flesh and has never had anything the matter with him before. I should like some advice as to treatment if there is a remedy. (2) We also have a cow that had a queer spell about two weeks ago. She would draw her head down to her foot, sometimes to her right and sometimes to her left, and would bat her eyes as though she were being tapped over the head with a stick. She would keep this up and then shut her eyes and step backwards and when she straightened her head up she would throw her head up as though scenting something. She would act this way for half a day. She seemed to be weak in her neck and shoulders, and her head does not seem steady at times yet. She would eat between these spells, and has run on the pasture and eaten hay all winter. She is five years old and will come in fresh in about a month.

(1) The bladder should be examined for stone or gravel which can be removed by operation. More likely

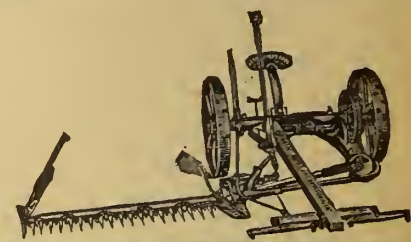
it is disease of the kidneys and that does not respond well to treatment when chronic. Avoid moldy hay. Give half an ounce of saw palmetto compound and ten drops of fluid extract of belladonna leaves twice daily in a little water and increase to three doses daily if found necessary. Feed oats, bran and hay. Do not allow horse to stand a single day in stable. (2) Cow had indigestion. If she has another sick spell give her a full dose of physic to clear the bowels and then feed more carefully.

SOFT HOOFS.

I have a sorrel mare weighing 1,000 pounds. Will you please tell me what I can do for her hoofs? I have used rubber shoes and changed her shoes in every way known for soft hoofs. Have used neat's-foot oil and other oils for them.

Mix together two parts oil of tar and one part oil of balsam of fir and paint on hoof at juncture of horn and hair, once daily for six weeks or longer as found necessary.

How to prevent Hog Cholera, Bots, Worms, Colic, etc. Make your own Stock Tonic. Free! RoC. Chemical Concern, Lincoln, Nebraska.



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Many a man has been driven to drink by trying to teach a calf to drink. It is easier to teach a calf to stop drinking than it is to teach a man to stop.

A new married couple took a honeymoon trip to Scotland. The lady said she "so longed to go to the banks of the Ayr to visit that storied spot and get the sweet Scotch air." That was last year. Word comes from there now that she has the Scotch heir and that it is just as sweet as it can be.

The Story of Cleopatra.

Mr. Shakespeare tells us about Cleopatra, a girl who lived down in Egypt quite a spell ago, in a way that shows us that William knew a whole lot about human nature. William married an old maid when he was a boy and was the father of twins before he ever voted. The knowledge gained by early education and experience helped him greatly in his writings all through life, and the way he describes Cleopatra and tells how she looked and acted would almost make your head swim.

She had a whole lot of money and all the liberty she needed; the old man doesn't seem to figure in her case to any extent whatever, and if she had a mother she kept well in the background. She used to ride up and down the Nile in great style, and one day when she shot a lightning glance she hit a mark. It was Mark Antony, and he was a tony mark.

Mark and Cleo made a whole team and a brindle dog under the wagon. Mark was her affinity, spelled with two capital "f's." He had a wife at home who was raising the children in the way they should go and getting the pig fattened for Thanksgiving, and Mark was supposed to be attending to matters of state for the king, but Cleo was patronizing Mark to such an extent that he was not sure whether he was on foot or horseback half of the time.

One day a messenger came to tell Mark that his wife was dead and he felt so bad that he went to sea immediately, and then Cleo pattered over that way to see also. Mr. Caesar, the king, had a sister who stood on the upper octavia of society clear up in "G" and he wanted Mark to seize her and see, sir, whether or no it would break up his funny business in Egypt.

Octavia was clear up in "G," as we said, and one day she dropped some notes and Cleo got on them, then she got up on the high sea herself and took Mark with her for a boat ride, and then Cleo patted him some more and then she declared war against Mr. Caesar and prepared to wipe him off the map. They all fought on the high C until they strained their vocal chords. Mark fell on his sword and was stuck on himself worse than ever and Cleo let an asp sting her on the arm, so she was marked in death, as well as in life. Mr. Shakespeare told all about this in his usual terse and ambiguous manner.

Taking the Stove Down.

Trouble is sometimes experienced in setting up a stove where proper care has not been taken in taking it down in the spring. Before taking down you should mark each joint of pipe plainly with red chalk first and then make any little notation considered necessary with a lead pencil, or if that doesn't show plain enough do it with a cold chisel.

Now put a chair on the center table and have your wife stand on the chair with the broom to hold the top pipe up when you take the bottom one down. Unhitch it from the stove first. This can be done with a spade by prying it loose, then pull gently; it will come apart just where you don't expect it to, so have your wife hold her apron to catch the soot and have the hired girl hold hers also, as the pipe will come apart lower down than you think it will.

If it doesn't move readily, jerk it—

this will always work. Catch what pipe you can and let the rest roll across the floor. You can tell where it rolls by the two little strings of soot that run out of each end of it. It is never any trouble to trail a joint of pipe that has rolled across the carpet.

By the time you have done this, the rest of it will slip down through the chamber floor and will hit your wife on the head, knocking her off the table. Never mind the pipe; catch your wife and help her to limp to the lounge, for she has sprained her ankle, of course. The rest is easy, for the most of it is upstairs on the floor.

Now begin to dismantle the hard-coal burner. Modern invention has perfected this so that there are only 300 pounds of stove and 900 pounds of trimmings. Begin by taking the top off and place it on the whatnot. Now lift the doors off and put them on the lounge; then take the ashes up in a basket. Put a paper in the basket so that the coarsest of the ashes will not sift out. Then remove the grates. This can be done best with a crowbar, as it has warped so during the winter that there is really enough grate for two stoves if it were in any shape. This will break a hole through the front of the stove, so the rest will come out easy. Now take the legs out. You should do this one at a time, until you have taken out two, then the stove will tip over and you can take both the others out at once. Be careful and not get soot on the carpet, as it is not time to take it up until next week. Have a dray back up at the door and put what is left in and have it hauled away. You will have to get a new one next year, anyhow.

Of course, you want to put up a small stove so you can have just a little fire if it should come a cold day, so gather up the pipe and put it together again, being careful to get no soot on the carpet. Set the little stove up and put the pipe on. It will be too short, and come apart again, but get another joint of pipe and cut it off the right length. This can be done best with an axe. Take it out on the lawn, mark it carefully, and hit it with the axe. The first blow will flatten it so you can get at it and then you will have no trouble in cutting it off. If it isn't straight on the bottom cut it off again. A little care will soon master this art and then it will be too short, but you can get a short joint at the hardware store that will just fit.

If you have got the piece with the damper in it up next to the ceiling, don't try to change it, as the stove will have to be moved again next week when you begin to clean house, anyway, and it can be changed then.

After getting it all together down stairs go up stairs and begin where the pipe left off when it was coming up. Begin by pushing down hard on the top pipe and if it doesn't go raise it a little. This will pull it off the stove down below and let it all come apart again, but keep your temper and don't get soot on the carpet. Commence at the top this time and put the piece in the chimney first, then put the others on along until you have this all up and by this time your wife and the hired girl will have got it all together down stairs, but it is upside down. Turn it, but don't get soot on the carpet. Now send the hired girl to hold the pipe while you get it together. If you can't do this, have the hardware man come over and help. When it is all back again as it was, you can have a bright fire with the old table legs that fell out last winter, and the remains of the whatnot and the chairs that you have broken in taking the first stove down.

Stoves can be changed in this way eight times per year by taking each one down twice and putting it up twice and there is always ample time to do this between spring and fall housecleaning and have several days left in which to recoup and recover, but care should be taken to not get any soot on the carpet, or at least as little as possible.

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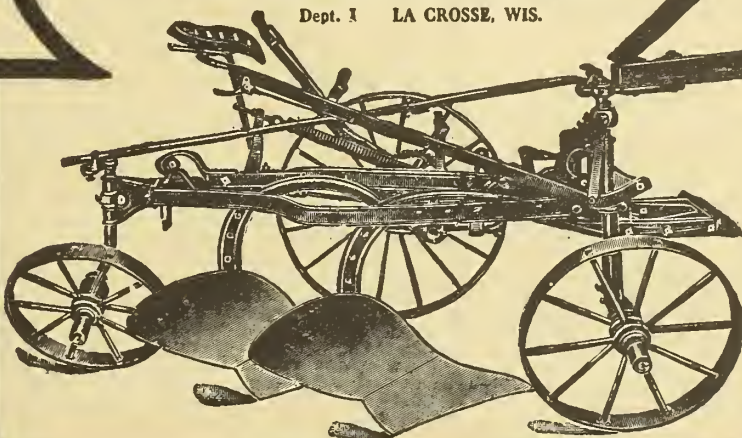
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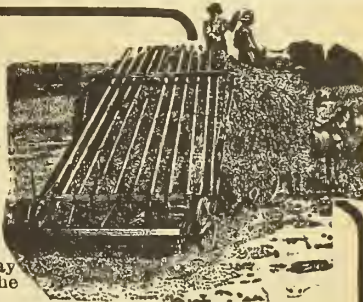


"[SOFTLY and QUIETLY the hay]"
[is being elevated and loaded]"

He is using with great satisfaction

The NEW DEERE CYLINDER LOADER

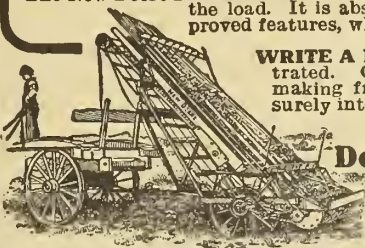
It's worth any farmer's time to investigate a hay loader that gathers up all the hay, but leaves the bottom trash—
That will load anything from the lightest swath to the heaviest windrow—
That will pick up large separate bunches of hay, or separate sheaves of any crop, whether bound or unbound.
That works just as well on rough as on level ground, and that handles hay in a soft, persuasive way under all conditions—
That is at home in any field and can follow the mowing machine in every kind of crop which can reasonably be called hay.
If there is any comparison between the "rake bar" type of hay loader and the New Deere Loader it is all in favor of the New Deere.
Mechanically considered, our two-cylinder loader is absolutely right in principle. Its gathering fingers are not "hook formed," consequently they pick up hay and nothing but hay.
Once started up the elevator, the strongest wind cannot dislodge it, and as it nears the operator, it is gradually compressed into a narrow stream making it easy to handle. The New Deere Loader is of durable construction, light of weight and draft—altogether the best loader on the market.



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The New Deere hitches automatically, as show in small cut below, and unhitches from the load. It is absolutely the only loader having both of these improved features, which are labor and time savers.

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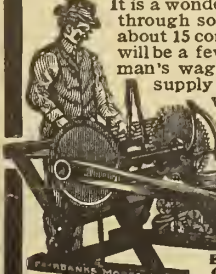


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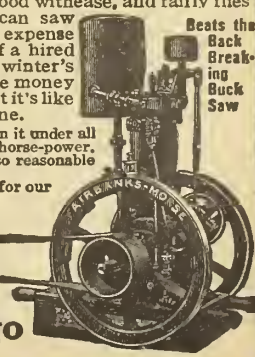


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WITH THE EDITOR.

Is it not time that the governments should find a way of replacing suspicion and force by reason and law; so that the world's wealth can be used for productive, humane and enlightened purposes instead of being squandered on ruinous and provocative preparations for war?

The above sounds the keynote of a communication being sent to the newspapers of the United States by the Peace Society of the city of New York. In a note addressed to the editors accompanying a circular to which this editorial draws attention, the executive secretary says:

It is believed that the time has come when the proposed appropriations for army and navy should be scrutinized with great care not only in the interest of economy, but of humanity.

A glance over facts and figures submitted in the circular bears out the position taken by the Peace Society. The circular devotes considerable space to the cost of "armed peace" and in so doing quotes figures which demand consideration from the people who foot the bills. Let us look at them for a few moments:—

Average annual cost of army and navy for the eight years preceding the Spanish war (1890-1898), \$51,500,000.

Average annual cost of army and navy for the eight years since the Spanish war (1902-1910), \$185,400,000.

Average yearly increase in the latter period as compared with the former, \$134,000,000, making a total increase in eight years of \$1,072,000,000, or 360 per cent.

Before we try to grasp these figures and consider what the money they represent really means let us give a moment to a remark made by Hon. J. A. Tawney, chairman of the committee on appropriations, in a speech last May. Referring to the increase quoted Mr. Tawney said:

The expenditures for this purpose the coming fiscal year (1909-1910) will be greater than they are this year. They have been increasing rapidly and enormously year by year. None of the advocates of armed peace are willing to suggest a limit beyond which this increase shall not go.

And now for some facts and figures by means of which we may better understand what the cost of "armed peace" is to America.

This eight-year increase exceeds the national debt by \$158,000,000.

It exceeds the entire budget of the United States for 1910.

It is twice as much as the highest estimate of carrying out the deep waterways project.

It is nearly three times the estimated cost of replanting the fifty-six million acres of denuded forest land in the United States.

It is three times the estimated cost of the Panama Canal, including purchase price from the French Company.

It is three times the cost of carrying out the whole irrigation program contemplated within a generation.

It is probably enough to banish tuberculosis from the United States within a reasonable time, if efficiently used to arouse and assist the people in their fight against this dread disease. More than 160,000 are dying yearly from this cause.

It is \$60 for every family in the United States.

It lays a yearly tax of 1 1/4 per cent on the total wages paid in the United States, on the supposition that wages average \$600 to the family; and we pay it in the higher price of our goods.

Another way to consider the cost of "armed peace" is to look abroad and remember that what America is doing other nations are doing. There is hardly a country in Europe which is not burdened with taxes, the very life is being crushed out of some nations, and every time one country decides on more soldiers or new battle-ships some other country is goaded to do the same.

Another thought is that much of the money spent in preparation for war is absolutely wasted because of the rapidity with which modern invention renders old warships and munitions of war useless. The battle-ships of today will, in all probability, be useless within five years.

Still another thought is that to be prepared for war means to be eager for war. When a woman gets new furniture or new dishes or a new cos-

tume she is never satisfied until she has a chance to use them. When a man buys a new piece of machinery or a new animal he wants to test its value. And so it is with war preparation. It would seem to be time that the people turned their attention to this matter of army and navy appropriation and expressed their convictions in such a way as to impress their representatives.

This country has a number of positive, present needs. The money that is being spent for "armed peace" could be invested in them with immense profit.

To consider it in but one direction: Fifty manual training schools could be built and equipped with necessary tools and appliances for the cost of one battleship—that is, the rudiments of a trade would be taught to 7,500 young people.

Then again, one of the country's great needs is good roads. Think of the increase in our expenditure for "armed peace" in eight years—\$1,072,000,000—invested in roads!

Or think of it invested in irrigation projects, or in the fight against tuberculosis, or in the reclamation and conservation projects which mean so much to the future of this country.

There is but one way to bring about a decrease in the amount being spent annually for war preparation. It is in the cultivation of public sentiment which shall demand that since we have spent so much, since our defenses are already adequate, that we let well enough alone—and invest the national income where it will bring better returns.

HOME AND HOMEMAKING.

LITTLE HELPS BY THE WAY.

Just a little happiness, just a little pain,
Just a little sunshine, just a little rain,
Just a little poverty, just a little gold,
And the great eventful tale of life is told.

The manners of the family in the home and their conduct toward one another may seem of small importance, but are in reality one of the largest factors in the development of character and have an important part in determining the future of the boys and girls. This plain maxim of a careful mother is a good one to follow: "When we are alone be what you want to seem when we have company."—Braymer Bee.

A VIOLET ROSE JAR.

Snip off the heads of your roses and dry them. Mix with fine salt and place in a pretty china jar. Add to the dried leaves one orris root, one package violet sachet, one-half teaspoonful cloves, the same amount of nutmeg and fifty cents' worth of oil of rose. Mix thoroughly and add a tablespoonful of ammonia. Keep well covered. When the jar is opened it will fill the room with a delightful odor.

I SHALL NOT PASS AGAIN THIS WAY.

The bread that bringeth strength I want to give,
The water pure that bids the thirsty live;
I want to help the fainting day by day;
I'm sure I shall not pass again this way.

I want to give the oil of joy for tears,
The faith to conquer crowding doubts and fears,
Beauty for ashes may I give away;
I'm sure I shall not pass again this way.

I want to give good measure running o'er,
And into angry hearts I want to pour.
The answer soft that turneth wrath away;
I'm sure I shall not pass again this way.

I want to give to others hope and faith;
I want to do all that the Master saith;
I want to live aright from day to day;
I'm sure I shall not pass again this way.

—Household.

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Make your rural home beautiful. Lay out spacious grounds around the farm house, plant shade trees, lay gravel roads and plant flowers. Don't lay up all your net earnings for the benefit of your heirs and lawyers, but spend some of it in beautifying your home. The farmer who always shuts his eyes to the esthetic features of his life and

Farmers should eat more oatmeal.

Although the farmer of today is able to buy almost anything he wants to wear or to eat he isn't paying enough attention to food values when it comes to his own table.

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screws himself down to the task of making money, loses a large portion, and the biggest portion, too, of his existence. His home should be an attraction to himself, to his wife, and above all to his children.

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Oatmeal is a valuable food because of the oil it contains (about 6 per cent) which supplies heat and energy to the system.

Vegetable oils and fats produce heat and build up the nerves.

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Potatoes consist principally of starch and water, and will in themselves sustain life for an indefinite period.

Lentils are almost identical in composition as white haricots, which are far richer in protein than lean meat.

Macaroni has a high dietetic value as a flesh-forming food; it contains starch and a large amount of the gluten of wheat.

CAKE FROSTING.

Ordinary Frosting—Roll and sift a pound of pulverized sugar, beat the whites of two eggs and gradually sift and stir in the sugar and the juice of half a lemon; a little powdered starch may be added if hard frosting is desired. To color frosting pink use cochineal or some liquid coloring; add this with a little rosewater in sufficient quantity to color and flavor the frosting. Break into a bowl the whites of two eggs and half a pound of sifted sugar with a little orange or lemon juice; beat all together until thoroughly blended.

German Frosting—To the juice of one lemon add a little grated lemon peel add powdered sugar until of the consistency of whipped cream. Spread this on the cake and strew over it while it is still soft half a cup of walnuts cut fine, which should be gently pressed into the frosting. To give the frosting a glace finish set it in the oven for a minute.

AMONG OURSELVES.

The message "Sincerity" brings us seems a fitting keynote for a good meeting, so we shall have it first. It is a poem by J. A. Edgerton, supplemented by a terse bit of advice once given by Dwight L. Moody:

Why become a slave to chance?
Why be crushed by circumstance?
Rise above it and advance
Over all adversity.
You're a king and can create
For yourself your own estate;
You are master of your fate;
You are free.

All of this is ancient lore,
Often has been said before,
But I'll tell it o'er and o'er,
Sing it to the heart of youth.
Howsoever long 'tis told,
'Tis a lesson never old,
For it bears a thread of gold—
It is truth.

Rise above the petty things
That would bind your spirit wings;
Hear the inner voice that sings
Songs of beauty all the while.
Drive the demon of despair
From your heart; and, free and fair,
Meet the broods of grief and care
With a smile.

Circumstances make us not;
Life is substance to be wrought
In the workshop of our thought;
We can mold it as we will.
All the hardships that affright
If we brave them take their flight.
They are test to try our might
And our skill.

Be not buffeted about
By the things that be without;
Be not ruled by fear and doubt;
Dare to worship toward the dawn.
Dare believe in truth and right,
Dare to seek the higher light;
And the wisdom infinite,
Follow on.

Spite of calumny and threat,
Dare to have a purpose set.
Keep it; and do not forget
You are monarch of your own.
Dare pursue against the stream,
Your ideal and your dream,
Keep your soul a king supreme,
On his throne.

Trust in yourself and you are doomed to disappointment; trust in your friends and they will die and leave you; trust in money and you may have it taken from you. Trust in reputation and some slanderous tongue may blast it, but trust in God and you will not be confounded in time nor eternally.

That bit of verse is worthy of being put in the scrapbook where it can be read again and again. It is worthy of being memorized, verse by verse, and repeated every time the temptation to discouragement lifts its insidious voice. Let us, every one of us, make the verse our own in the way best suited to us—and send thank waves to "Sincerity."

Peggy D. comes with a question which I have often asked myself:

I am a young mother and should like, some time when there is room on

the home page, to ask a question. When talking to older mothers, I often tell of my anticipations of the comfort and joy my three small girls will be to me when they get older. And almost invariably these other mothers say, "Enjoy your babies now, but don't plan on the future, for with every added year you'll find that your girls are more worry, and care, and trouble, and they'll never be the companions you expect." Why do these women, whose children are grown, discourage the young mothers who look forward to the young womanhood of their daughters?

Answers to this question should prove interesting reading. I hope we shall have a big batch of them. Right here let me say to the friends that I do hope they will not permit housecleaning and gardening and chickens to interfere with contributions to Among Ourselves. We have been having fine meetings and we should keep up the quality of the programs. This can only be by the friends sending in good letters. I would like especially to impress this thought upon those who have never written, or those who plan writing, but keep putting it off.

A. M. W. brings us something quite different, news of "A Farmer's Wife Who Struck":

On March 1, 1910, I, a farmer's wife, residing on Empire Prairie in Andrew county, Missouri, struck! For many years I have felt a wife and mother owes to her family some time during the day a period of rest and I always fancied that when my rush was over I'd put my theory into practice. Days came and days went until they grew into years and still the "rush" was on till finally I looked myself square in the face (not by standing before the mirror, however,) and resolved the time had come for action. Not wanting to be hasty I made this vow, to put on one month's trial: Every afternoon when the clock strikes five, I am going to shut up shop as it were for one-half hour. If I am darning a pair of socks and that hour creeps on when the second one is half finished, it is placed back in the basket; or if making a dress for one of my girls and five o'clock finds me perplexed about any part of it, back it goes on the shelf to wait for another day. By claiming this particular time it gives me yet an hour to prepare supper, for readers of these lines know a farmer's wife cannot well have supper before 6:30. (And say, I wish my husband would strike, too, and resolve to come to that meal on time.) If I see this reaches the Home Department columns I will write again in a month and report how my plan works.

Of course, we want to hear how the "strike" has worked. Mrs. A. M. W. will come and tell us, I hope, because the good work done by way of suggestion will be strengthened by a faithful report of how the plan has worked.

"A Subscriber" brings us thoughts suggested by the discussion of recent meetings:

I have been a reader of this paper for several years. I always read the letters and find them quite interesting. I haven't written anything to this department before, but I am somewhat impressed by a few of the letters in regard to matrimony. So I will write my sentiments. It has been said "marriage is a lottery." So it is, but I think there is a remedy for that—a careful study of each other's disposition before deciding. Home is what you make it; neither wife nor husband can make it alone. Each must work for the other's benefit and comfort. Talk your affairs over quietly together. Never do anything that the other disapproves of—which is not hard when each one has the other's welfare in view. If every one would do this a happy home would be theirs. I think mothers are, in a way, responsible for a great many unhappy homes, by not teaching their daughters how to cook and sew. That is something which every girl should learn, no matter how wealthy her parents are, for love does not always stay within the bounds of wealth. There isn't anything that pleases a man more, when coming in from a hard day's work, than to find a smiling wife and a well-cooked meal. So I think there is a work for both.

"A Subscriber" is right. Girls should be trained to make capable housekeepers. A man who marries should be able to support a wife; a woman who marries should be able to keep house—and mothers who neglect the training of their daughters in the art of housekeeping sin against them.

Mrs. E. C. R. has something to say of happiness and unhappiness in married life. Suppose we hear her:

I have been very much interested in the letters "Among Ourselves" for some time, and if I may be permitted to speak I would like to say a few words with regard to the experience of an unhappy man. I suppose if the truth were known there are as many unhappy husbands as there are unhappy wives in the world, because as much or more depends upon the wife

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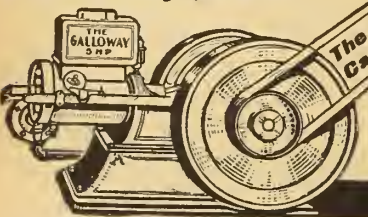
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than the husband for home comfort and happiness. There is such a thing as being too lenient. It stands one in hand to protect and defend his own home. I am not prepared to say just what per cent of the marriages are happy or unhappy, but I believe there are more happy marriages than one would at first suppose because it is the unhappy marriages we hear the most about. Marriage is too sacred to be treated lightly. It is a serious thing to break up a home and wreck the life of the one you have sworn to love, cherish and defend until death divides you, besides depriving children of their natural father or mother. After marriage the contracting parties must consider the opinions, wishes and feelings of each other if they expect to live happily together, yet keep their dignity and individuality. My married life has been very happy, generally speaking. Of course, we have had little misunderstandings and differences of opinions when the atmosphere would be a little cool for a while, but it would soon blow over and be clear and pleasant again. One can afford to withhold one's opinions sometimes for the sake of keeping peace in the family, and I have found by experience that the very thing one most desires will work itself out sometimes better than one could have managed it. In my pessimistic moments I think I have cause for complaint along some lines, but as soon as they wear off and I think of so many people who are worse off than I am, I am really ashamed of myself, and set about to make the best of what I have. I have been married nearly eighteen years and have five bright, sweet little girls and a baby boy; we lost a little son four years ago which broke our hearts and cast a gloom over our home that has never quite disappeared. But "what can't be cured must be endured," and the best way is "in time of trouble take to work and not to woods," and always do the best we can with what we have, leaving the rest with God.

So often, on looking back, a trouble which seemed overwhelming at the time looks a small thing. It is wise not to take anything too seriously and always to allow for frailty, to bear with the faults of others even as we ourselves need to be borne with. This is especially true in the marriage relation where the process of adjust-

ment frequently causes friction even where two love each other devotedly.

A bit of practical kitchen lore comes to us from a Nebraska friend, H. B. S.:

Contributions on cornbread making are asked for and also for mush, from those whom "everybody praises" for their viands. Being a lone ranchman cooking only for himself, I've never become surfeited on praise, but cornbread made as follows I pronounce good ("and as you say") in place of meat is the best substitute I know of. First, procure fresh granulated white cornmeal from the great corn regions where corn reaches its highest and best condition, then take one cup sour cream, one cup sour milk, three-fourths cup of sugar, a pinch of salt, one level teaspoonful of soda. Then add flour one part and meal four parts till you obtain a batter that will pour readily and still not so stiff but what it will level itself in your baking pan. If your sugar, salt or soda is the least lumpy use a wooden potato masher on all three (thoroughly blending them) before you add the sour milk and cream, and after adding the liquid heat and blend completely before adding the flour and meal, and then beat again before putting in the baking pan. The pan in which you bake should be of such size that the bread when done is not less than one inch thick and not over one and one-fourth inches in thickness. This is very important if you want good bread, as is also the thorough aeration of the batter by beating. You should have a declining fire (hottest at first), about good biscuit heat at first. If you have an oven thermometer it should be about 9 at first and 6 at last of baking. No eggs are needed—they would spoil this bread (if made according to directions). Try this and report later "Among Ourselves."

Our good ranch friend adds, "Don't guess at your soda—press level in the spoon with a knife. Nothing on earth is worse than too much or too little soda."

It is very kind of a man to help us with cookery. As a thank offering for his courtesy I propose that everybody try his recipe and that those who report bring one of theirs which might be of service to him.

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair Tennyson.

The International Sunday School Lesson

SECOND QUARTER.

Lesson 111.—Matt. 11, 1-19.

April 17, 1910.

THE QUESTION OF JOHN THE BAPTIST.

The Bible pictures its heroes just as they are. It never veneers. We see Noah drunk, Abraham lying, Moses angry, Elijah flying, David with blood on his hands, Solomon as a Mormon. If the Bible were a man-made book, it would have given us a series of ideally perfect characters. On the contrary, it deals with heroic fidelity with its principal heroes.

Even the dauntless forerunner of Christ faltered in his faith. The unyielding despotism of Herod; the sudden and complete change of his environment, from the unconstrained and wholesome atmosphere of the wilderness to the narrow miasmatic cell of Machaerus, whose only outlook was toward the sulphurous Sea of Death; from tireless activity to enforced idleness; from sunlight to shade,—together, it was enough to rive a heart of oak.

So we find the voice that has so unhesitatingly cried, "Behold the Lamb of God!" now sending to Jesus to know whether he was that Lamb or not. So far from treating the captive prophet's embassy with harshness or indignity, Jesus welcomed it. He attached the messengers to his person, and made them observers of his miracles.

When they had seen enough to convince them, Jesus dismissed them with the simple injunction that they should tell the imprisoned prophet what they had observed, knowing that the oppressed heart would flame up once more before these indubitable marks of the Messiah.

Jesus thoughtfully forestalls any unfavorable impression which John's inquiring embassy was likely to make. He hastens to shelter his kinsman and herald from adverse criticism. He said: "You all were of that mighty throng that went out to John's preaching and baptism. Did you find a character as pliable as the reeds on Jordan's bank? No! no! rather a giant oak unaffected by veering gales. Or was it to see a dilettante and obse-

quious courtier caring only for luxurious garments of the king's wardrobe, or the dainty viands of his butler? If that was what you sought, you had better gone to the king's court than to the wilderness. The leathern girdle, the locusts and wild honey, are evidence of the self-denying character of John Baptist. Had he been a cringing, currying time-server, Machaerus' walls would never have closed upon him.

"You went to see a prophet. You saw that and more—even Jehovah's messenger—the last of the line; the only prophet to whom prophets themselves had borne witness. The character was fitted to the office, and the office to the character. Like every dauntless enunciator of truth, he was a wedge splitting society asunder. People and publicans heeded him, justified God, and were baptized into repentance; but Pharisees and doctors of law, wedded as they were to the old regime, heeded not the inward divine monitions which chorded exactly with the prophet's spoken word.

"This illustrates well the untoward character of the present generation. They are like children at charades, one party of whom, with obstinate pettishness, refuses to respond alike to the lively notes of the wedding-march or the lugubrious cadences of funeral procession. So my forerunner came, a prince of ascetics, wearing the grating sackcloth, woven of the hardest kind of camel's hair, eating abstemiously of the fare of the abjectly poor. At John you shook your heads knowingly, and parried his flagellantal blows by affirming him possessed. I came and mingled in the sweet amenities of your social life, and you pronounced me libidinous. But in the final analysis this wisdom, which is from above, is triumphantly vindicated in the lives and characters of those who really possess it."

The Teacher's Lantern.

Many a noble martyr has weakened before death. In the throes of torture,

or by the subtle enervation of prison life, the lips have retracted what the heart still believed. Savonarola, Huss, the English bishops, all did so. But they failed not to withdraw the confessions made in the delirium of pain. Let any who would criticise listen to Thomas Fuller, as he cries, "O there is more required to make one valiant than to call Cranmer and Jewel cowards; as if the fire in Smithgeld had been no hotter than what is painted in the Book of Martyrs!"

Even Jesus himself, though he was anxious to be baptized with his baptism of death, shrank from it in the terror and agony of Gethsemane. Every holy martyr has had a priest who could be touched with a feeling of his infirmities. And John Baptist had.

Christianity does not so much need defense as propagation. Its effects are its defenses. Its best arguments are in boots—not in books, at desk and bench and counter, in parlor, mart and thoroughfare—not on library shelves. The guileless tongue, chaste eye, sympathetic ear, helpful hand, pure heart—these are the seals to the divinity of the religion of Jesus. To every inquiring embassy we can say, "Go tell what you see."

John Baptist is the sublimest example of self-abnegation the world contains. His humility was unexampled. He felt himself unworthy to unloose the Messiah's sandal-thong. He recognized the limitations of his comparatively humble sphere, and kept within them. This was the fulfilling of his joy. The moral grandeur of his lofty soul well expresses itself in the words, "He must increase, but I must decrease."

Belfrage has eloquently said: "John was not the evening star, sinking into the darkness of night; but like the morning star, lost to our view in the brightness of day. And he chose wisely for himself; for thus retiring he has secured a fame brighter than the applause of multitudes could have given, and he is now in possession of an honor which can never be diminished."

Why did not Jesus miraculously open the dungeon of Machaerus, and set John at liberty? Had he not come to proclaim liberty to the captives, and the opening of the prison to the bound? If this question gives us difficulty, how much more it must have given John. Peter and Paul both had miraculous deliverances from prison. But it will be remembered they were in the very midst of their careers, while John had finished his work. The greatest thing that remained for John to do was to die. This he did with magnificent heroism.

But even the less and inferior ones, who are completely inducted into the kingdom of grace so as to apprehend and partake of its spiritual nature, have the advantage over even the chiefest of the prophets. Such a one will not fall into the palpable error of John, and imagine that the heavenly kingdom can be gotten or advanced by force. (Matt. xi, 11, 12.)

DRESSMAKING—No. 72.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Linen frocks that are made collarless and with elbow sleeves are to be much used this season and this one is semi-princess in style, and chic as possible, yet perfectly simple. The blouse and skirt are joined by means of the belt and the closing is made at the left of the front, so that it includes all the new features. If liked the neck can be made high with regulation stock collar and the sleeves long, as indicated in the back view. The under sleeves are made in sections and are distinctly novel as well as attractive, but in whichever way the dress is treated it is smart in the extreme. Pongee would be pretty so made, foulard can be utilized for the design, linens and poplins are admirably well suited to it and the dress also would be both attractive and practical made from the thinner and simpler washable materials. There are a great many of the pretty, inexpensive printed wash sort that would be appropriate and for immediate wear the model made with the collar and the long sleeves would be suitable for light-weight serge, shepherd's check,

cashmere and materials of the sort. Made from either serge or shepherd's check with stitched edges that are simply piped with contrasting material, it would make a simple, useful and smart school frock for the early season. Small women who find youthful models becoming will like it also, as



[6613 Semi-Princess Dress for Misses and Small Women.]

it is especially well suited to their needs.

For the sixteen-year size will be required 11½ yards of material 24 or 27, 7 yards 32 or 5 yards 44 inches wide with ¾ yards of banding. The pattern, No. 6613, sizes 14, 16 and 18 years, will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

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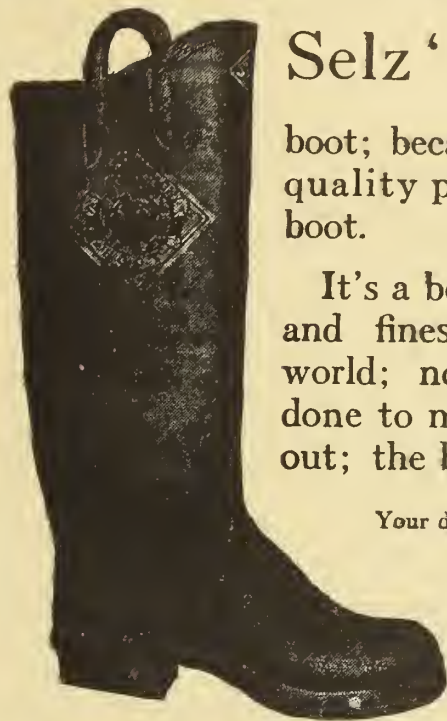
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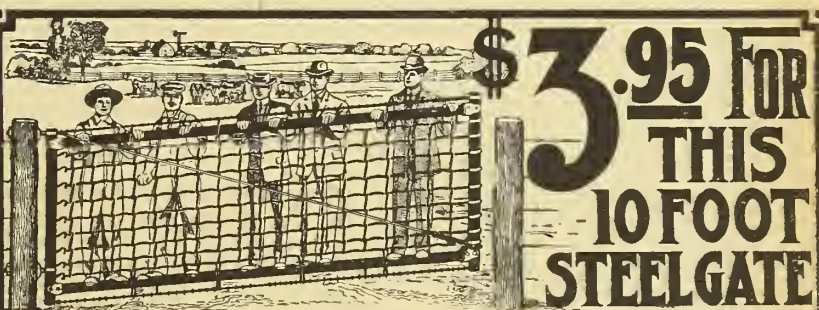
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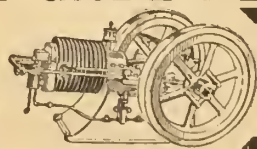
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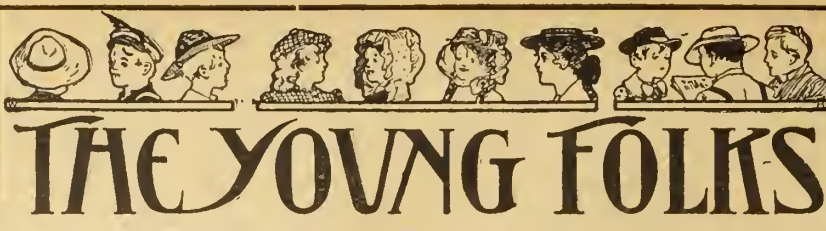


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THE YOUNG FOLKS

HE FED THE HUNGRY BOY.

As Edward was coming home from school one day he met a little ragged boy who was crying.

"What are you crying for?" asked Edward.

"I am hungry," he said, "and I can't get anything to eat."

"Why doesn't your mother give you something to eat?"

"She is sick," said the boy, "and has nothing for herself."

"Where is your father?"

"I have no father; he was killed in a war."

"Where do you live?"

"Down by the bridge, near the foot of York street."

"Come with me and I will give you some bread." Edward turned back and the boy went with him. They soon came to a baker's shop. They went in and Edward found that he had just money enough to buy one loaf of bread. He bought it and gave it to the boy.

Nettie Wendler.

Plowing is the Best.

I am twelve years old and live on the farm. I think it is more fun on the farm than in the city. In the summer I milk three cows and go to the creamery with the cream. Of all the farm work I like best to plow, plant corn, mow and rake hay. Last summer papa said I could go to the city and visit my cousins for a week and I thought it would be such fun to play all the time, but when I got home I was glad to get to work again.

Sewell Stinson.

How "Taffy" Got His Nickname.

It was in the pioneer days and in the backwoods when the first "dead-endings" and clearings were made and these were the first indications of a habitation. Ben Hall was a lively lad of thirteen, quick as a cat, always full of fun, also of mischief and frequently of trouble. Ben's father had built the regulation log house in the clearing, large, roomy and primitive. A summer kitchen was attached to one end of the house, its roof reaching up to the chamber window of the upright or main part. This was used as a summer kitchen and as a woodshed in the winter. The main part had only one big, square room, which was sitting room, dining room, kitchen and parlor, with a bedroom, pantry and stairway in one end of it. The upper story was divided into two rooms, one for the boys and the other for the girls. Nearly all the old-time log houses were built in this same style.

One evening in the winter Ben's big brother and sister gave a taffy party and, of course, all the young people from miles around went to Uncle Joe Hall's "clearing" to the party. In those days boys of thirteen were "trundle-bed trash" and were supposed to be seen and not heard, and Ben in obedience to a finger pointed towards the stairway was sent to bed when the young people began to arrive. They came with laughter, noise and general merriment which was to Ben the cause for bawling the fate that kept him cooped up away from the frolic and general good time going on down stairs. The maple sirup was put in a kettle and hung on the crane in the old fireplace. Stoves were just coming into use, the old "elevated oven" variety prevailing, but no house was perfect without the old fireplace with its monstrous chimney taking up almost one entire end of the building and forming a conspicuous part of the gable. This made a splendid place to cook the taffy, and while some were cooking it, others were playing their parlor games, and fun was fast and furious.

Ben was uneasy. Old "Hi," the man of all work, occupied the room with Ben and at all times and all seasons was Ben's companion, and as Ben continued to mourn over his enforced absence from the party, Hi suggested that he go down in the stairway and peep over the top of the door through

a crack. No sooner said than done, and carefully creeping down the dark stairway, Ben was in position to see the whole hilarious crowd and hear all that was going on.

They had finished the taffy until it would "blow off a stick in bubbles." And tin plates, saucers and any dish that would hold the sticky mixture were filled and taken out to be cooled in the snow. The most of them had gone out by the side of the woodshed with their taffy, when Ben in shifting his position in some way lost his balance, and the stair door being held by a slight wooden latch, gave way and down went Ben heels over head into the room.

The door struck a chair which in turn struck the table, knocking the candles off, extinguishing them and leaving the room in darkness except for the smoldering light from the fireplace. Several ancient maidens screamed at the appearance of the apparition from above, and Ben, bewildered and scared, and dressed in too few clothes to attend church, and a little too many to go in swimming with, made a spring for the stair door, but in the darkness he made a mistake and dashed out into the woodshed.

The night was cold and so was the snow, and there stood Ben dancing and shivering, and wondering how he could ever get up into that chamber without going through that crowd again minus several important articles of wearing apparel, when he spied the ladder leaning against the house on the back side of the woodshed. The merry-makers were on the other side of the woodshed, so Ben sprang into the snow, whirled the ladder around against the shed, and flew up it like a cat, or a ship scudding under "bare poles."

Rapping on the window to attract old Hi's attention, both began tugging on the window sash trying to raise it, but it was frozen down and a dozen good wrenches were necessary before it gave way, and then it came all at once. Ben lost his footing again and down he went over the icy roof right into the middle of that crowd of "taffy coolers," alighting fairly on his back right in those plates and saucers of hot taffy.

The girls screamed, the boys did, too, but Ben was not idle, for with a yell like a Comanche Indian, with that taffy all over him and burning into his skin, he again sprang into the woodshed, out of the back door, and up that ladder again with tin plates, saucers and what not hanging to his shirt, and rattling like castanets.

This time he went through the window head first onto the floor, the taffy burning in spots and the skin peeled off where he came in contact with the sharp ice in his "slide for life," and with all the rest he was nearly frozen.

Paterfamilias now came on the scene and Ben thought he was in for another seance, but one look at the boy made the old gentleman laugh in spite of himself, but melted his heart to pity.

Ben was covered with taffy from the crown of his head to the soles of his feet, and enough blood mixed with it to give it a good, rich color. A big tub of hot water, a lot of sticking plaster, and a lot of soaking and scraping by pa and old Hi, put Ben in a better plight, but what with the scratches and blisters he was too sore to appreciate things as the rest did.

When the situation was understood by the guests all felt sorry for poor Ben, and although they cooked another batch of taffy, the merriment was tempered with pity. Of course, Ben was all right in a week—no healthy country boy could get anything the matter with him in those days that would not get well itself in a week's time, but when he began to go to school he found himself called "Taffy" Ben, which finally simmered down to just "Taffy," and to the day of his death good-natured, laughing Ben Hall went by that nickname.

E. N. Bailey.

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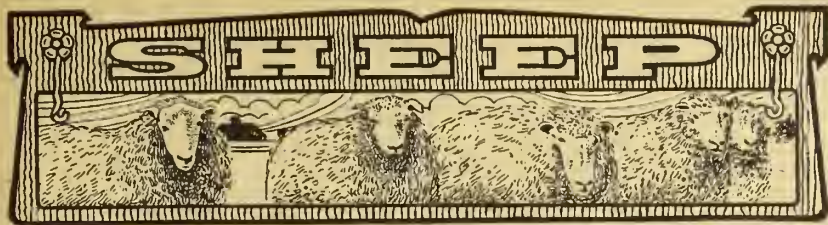
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When writing mention this paper.



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

LIP-AND-LEG ULCERATION OF SHEEP.

The disease known as lip-and-leg ulceration of sheep, which has prevailed in Wyoming and other western states to such an extent as to cause the secretary of agriculture to place a federal quarantine on sheep from certain counties in Wyoming, is the subject of a publication just issued by the department of agriculture. In this publication Dr. A. D. Melvin, chief of the bureau of animal industry, describes the work of his bureau for the suppression of this disease, and Dr. John R. Mohler, chief of the pathological division of the bureau, describes the nature and cause of the disease and prescribes treatment.

The investigations of the bureau of animal industry as well as those made by other authorities in this and other countries show that lip-and-leg ulceration is contagious and is one of the various manifestations of a disease which has been given the general designation of necrobacillosis and which affects various species of animals. The disease in sheep as found in the western states varies all the way from a mild sore mouth, which often heals without treatment, to a serious and virulent ulceration of the lips and legs and other parts of the body, which in aggravated cases is sometimes practically incurable. All the various forms of the disease, however, are due to the same germ, which is known as bacillus necrophorus.

Many sheepmen have been inclined to doubt the contagious character of the affection known as sore mouth in lambs, claiming that the lesions were simply the result of injuries caused by eating frosted grass, coarse forage, etc. But even in cases of this kind Dr. Mohler has shown by his investigations that the wounds readily become infected with the germs in regions where the infection exists, and that mild cases are liable to develop into a more serious form.

The disease may not only spread among sheep and go from the mild to the virulent form, but is also easily communicable to pigs, calves, and other animals. Cases are cited where calves have become infected by being placed in a corral where sheep with lip-and-leg ulceration have been, and also where sheep have contracted the disease by being placed on a farm where necrotic stomatitis had occurred in hogs.

The department considers it important for the welfare of the livestock industry that the disease should be suppressed, and believes that the place to suppress it is on the range. It is recommended that all diseased or recently exposed sheep, including even the so-called sore mouth lambs, be held back, and that only those animals which are unquestionably healthy be shipped to market.

The Bureau of Animal Industry, Department of Agriculture, Washington, D. C., would like to be informed of the occurrence of lip-and-leg ulceration among sheep, and will send to any applicant free on request a copy of the publication referred to (Circular 160) prescribing in detail methods of treatment.

CARE OF THE SHEEP.

To the Editor of The Homestead:

As spring comes on and the ground gets soft from frequent rains, the sheep ought to be watched very closely. They are weak from the lack of exercise, and their heavy coats of wool weight them down, consequently they are liable to get into the mire and not be able to extricate themselves. If they get into the soft mud and bedabble their wool it will be almost impossible for them to get out without the aid of their owner.

Then, too, a sheep that is weak may lie down with his back down hill or in a slight depression in the earth and not be able to rise again. He will also need a helping hand.

The farmer should not put his sheep on grass until it has sufficient growth to maintain the flock. After the sheep get a taste of green grass, they will turn away from their hay. Unless the grass supplies sufficient nourishment the sheep soon grow weak, so they will need a liberal grain ration. There is no animal that loses flesh faster than sheep when not liberally fed. The springtime seems to be the hardest season of the year on the flock of sheep, and the farmer should see to it that they have plenty of good, wholesome food, especially the ewes that are to raise the lambs. I believe it is best even when the ewes have plenty of grass to feed them some grain twice each day. This will give them strength to suckle their lambs and make the lambs stronger.

After shearing the sheep it is a good plan to dip them in a dip strong enough to kill all ticks and other parasites that may have fastened themselves to their flesh. The farmers of a neighborhood may purchase a galvanized vat into which a good dip can be poured, and a general sheep dipping take place.

Subscriber.

SHEEP ON THE FARM.

To the Editor of The Homestead:

Taking stock for stock, and the amount of money invested in sheep compared with other classes of farm animals, sheep without doubt give equally as good a return, while many are of the opinion that the percentage of profit is higher than for cattle.

Sheep on the land are golden hoofed. Where they tread, as a rule they improve the soil. On the lighter soils, chalks, gravels and sands, treading is literally an improvement, for it assists in the consolidation of the soil, while at the same time the animals are dropping liquid or solid manure, not one particle of which is lost. On the heavier soils the treading of sheep may at some time damage the condition of the soil, speaking mechanically; no man, however, would fold his sheep on heavy clay to cause it to poach. Sheep, then, have two values—first, that of improving the soil, either by manuring it or by treading and manuring combined, and next by providing mutton and wool. How, then, can we increase the profits which they return?

Every agriculturist is aware of the fact that the better the quality of the parent stock, whether it be animal or seed, the better the result in the produce. A great majority of farmers own flocks which are practically mongrel in blood. They may be of the type of the pure breed of the district, or they may not be; they are annually mated with rams which are selected at liberal prices from good flocks of pure-bred stock, and in this way the character of the flock is to some extent maintained, especially where the best ewes are selected for breeding, and the inferior rejected. It happens, however, that nearly every healthy ewe is retained, however imperfect she may be in form, breeding capacity and mutton-making character. The only way to level up to a high standard is to reject every animal from the breeding stock which fails to pass a standard of excellence, and that standard should be rigidly adhered to. The first thing to note, then, is the prime importance of blood, which imparts character, size, quality, prolificacy, rapid fattening and the power to produce the best meat in larger quantity on the best parts.

The quality of the wool produced

by sheep is very materially affected by the feeding which the animals receive when the wool is being grown. Whenever sheep are allowed to run down in condition, a distinct weakness of the fiber of the wool will at once manifest itself in that portion which is at that particular time in course of active formation. When wool goes on the looms its inferiority at once becomes evident by the fiber breaking up and damaging the quality of the fiber into which it is being manufactured. In the production of wool it has been found that food rich in albuminoids is the best.

W. H. Underwood.

SHADE IN THE PIG PASTURE.

To the Editor of The Homestead:

Shade is needed for pigs as much as feed and drink in warm weather. Nothing will lessen the stamina of a drove of pigs more than lack of shade in hot, sultry weather. I find where one has to set out trees for shade, that some of the hardy varieties of apples are as cheap as anything. They can be set just outside the fence on the south side of the pasture. They will thus be protected and still cast their shade where it will be helpful to the pigs. If apples are abundant, let the pigs harvest the fruit as it falls. It will do the pigs a world of good, or if the apples can be used in the family, all well and good. Good, thrifty apple trees can be bought for about twenty-five cents each and the expense of setting a row along the south and west sides of the pig pasture is not very great and you will be proud of this row of trees in a few years. At any rate, give the pigs plenty of shade. It means comfort and comfort means thrift, which in turn means money.

Forest Henry.

Olmsted county, Minn.

Ask your neighbor to subscribe for The Homestead.



Kill the Ticks

Ticks are not only distressing to the animal but injure the fleece, and can be speedily destroyed with one part of

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to 80 parts of water. This preparation not only kills the ticks, but destroys the poisonous germs of disease. Dr. Hess Dip and Disinfectant is also excellent for disinfecting barns, cow stables, hog pens, chicken yards, sinks, drains, cellars, cess-pools, etc.

It also kills lice, mites, sheep ticks, fleas and all parasitic skin diseases, such as sheep scab, mange, eczema, etc.

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send today for interesting illustrated matter showing what Goodrich Tires have done for others and explaining why they are best for farmers and stockmen. **FREE** for your name and address. Post yourself now and get the most out of your car.

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and get at least 20 cents worth more wool from each one. Take the fleece off in one unbroken blanket and do not cut or injure your sheep as with the old hand shears. Do away, too, with tired, swollen wrists. You can do all of these things and do them easy by using this

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This enclosed gear Stewart Shearing Machine has had the largest sale of any shearing machine ever made. The gears are all cut (not cast), from the solid steel bar, all file hard and run in an oil bath. The shear is the famous Stewart pattern, as used in all the large sheep countries of the world.

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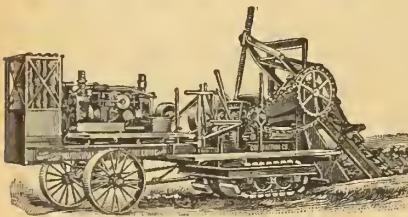
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Conserve the Farm Boys

By Geo. F. Howard, of the Minnesota School of Agriculture

WHEN Charles Sumner entered the United States senate in 1834 he was approached by Senator Benton, of Missouri, who bewailed the barrenness of the political future for the young man. "You have come upon the stage of action too late," exclaimed the old man. "All the great questions growing out of the establishment of the Constitution have been settled. The Missouri compromise has been passed. There remains for you nothing but the commonplace matters of ordinary legislation." We know the rest, that Charles Sumner lived to take an active part in the most stirring times of our national history.

It has been ever thus. The old man full of years and experience, deems the great questions settled, the world of which he is a part established on a firm foundation and nothing left in the future to be gained or accomplished. Today we are facing problems as great as any that have confronted us in all our history. The negro problem, the problem of foreign immigration, of territorial expansion, not to mention a dozen others. Indeed there is danger of our being too problematical. We have been considering many great questions concerning the welfare of our loved state, the conservation of our wealth of forest, farm and mine, but I have the pleasure and the honor of bringing to your attention the greatest problem of all, the boys on the farms of this country.

What Minnesota is to be fifty years hence, what our great nation is to be in the misty future, does not depend upon the mature men of today. Fifty years from today, every one of us will be dust and ashes, and our places will have been taken by those whose lives and character are now in the molding in the schools of this country. If these boys shall go out into life, stronger in body, keener in mind and intellect, firmer in moral tone and purpose than were their fathers, then shall our loved land have a new lease of life and a new birth of freedom, but if the reverse happens, then God help Minnesota. Hence I maintain that the greatest problem before us is the boy, for if he is right, he will solve all the rest.

How are we preparing the boy for his life's work? By educating him in one of the best school systems in the United States at a cost that is never questioned. The amount of money that is paid out annually by district, city and state for the training and development of the future citizen is almost fabulous, and it is given gladly, willingly.

Today there is going over this land a great wave in the form of a demand for industrial education and education in agriculture. We are coming to see

that our present form of education is all of one kind, a training of the head, and we are beginning to see that there is another, more practical and helpful, the training of the hand. If 90 per cent of the 30,000,000 of school children of our land are to go out and earn their living with their hands, isn't it about time that we gave more attention to these wonderful members of the body which are as susceptible of as high development as any part of it? More than that, the activity of the hands always leads to increased mental activity.

Again, there is a great and growing demand for education in agriculture, not only for the boy, but for the man as well. This demand is from all quarters and has many causes. The high prices of food products lead us to believe that consumption is fast overtaking production, and we shall soon become an importing nation. The farmer, roused by high prices he receives, is anxious to increase the fertility of his acres and the output of his farms.

The business man, alarmed at the high cost of living is anxious for increased production on the farms. He also realizes the chances for failure in commercial enterprises, and is doing all in his power to check the drift from the farm to the city, though many times he receives little credit for his good intentions or his efforts. Our present-day system of education is a training of the head, and if it tends anywhere, it tends away from the farm and the shop and toward the high school, the university and a professional life. Parents upon the farm are anxious to spare the child the toil and privation which they endured, and they are making every effort to give him a better education than they had themselves, which is all right, yet at the same time this better education is leading him out of harmony with his life on the farm until he takes to the city as naturally as a duck takes to water.

What can be done for the boys and girls in the country schools along the lines of instruction in agriculture?

A movement is being carried on in our state which is doing much along these lines, and which is gathering headway every year, being carried on in a more or less organized way in over forty counties of the state. I refer to the industrial contests fostered by the school of agriculture, organized in the county by the county superintendent, and worked out in the school and the community by the teacher and the parents.

In conclusion let me say that education in agriculture must be elementary at first, and must be along the line of the practical rather than the



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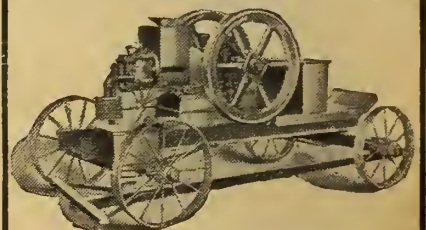


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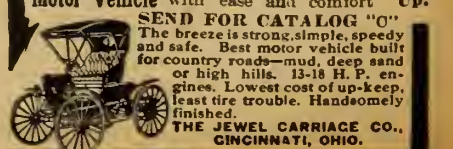
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scientific and the technical. It must be such as will appeal to the farmer and meet his approval, and lastly, it must arouse the interest of the boy, which is the prime thing to be attained. The course of study must be vitalized. The work in reading, language, arithmetic and written work must be correlated along lines in harmony with farm life. In short, teaching agriculture must be a spirit, an environment.

We must have more of a desire on the part of parents that the boy should make farming life his work. The boy must be taken into partnership and given an opportunity to work out some ideas of his own, and have

no more of the "boy's calf," but the "father's cow" contracts, which has driven more boys from the farm than any other one agency.

Some day, perhaps just before the millennial dawn, we shall get wise. We will consolidate the little one-room schools into strong central schools, where manual training, domestic science and agriculture will be taught by skilled instructors, the hand will be educated as well as the head, the boy will be reared in an environment in harmony with farm life, and the "little red schoolhouse" will be relegated to the shades of oblivion along with the sickle, the flail and the old log house. May God speed the day.

Legend of the Birds

NOW that woods are vocal again with songs of returning birds, old stories repeat themselves to the loiterer under the branches. Some of these singers, like proverbial happy women, "have no histories;" others, usually those whose brothers are familiar denizens of European woods, are the subjects of unnumbered legends, fairy tales and ballads. Foremost of these is the robin, beloved hero of the nursery, who piously covered the babes of the woods with leaves. We are not all familiar with the fact that this superstition extended beyond the story of the babes, and that from ages past it has been believed that the robin would cover with leaves and moss the face of any dead man he found in the woods, if not the whole body. It is to this belief that Drayton refers:

Covering with moss the dead's unclosed eye,
The little redbreast teacheth charity.
And even earlier, in a play of 1611, we read:

Robin in his red liverie, who sits as a crowner on the murdered man, and, seeing his body naked, plays the sorrie tallow to make a mossie raiment.

Shakespeare, too, in Cymbeline, refers to the story

The ruddock would
With charitable bill (O, bill sore shav-
ing
Those rich-left heirs that let their
fathers lie
Without a monument!) bring thee all
this;
Yea, and furred moss beside, when
flowers are rare,
To winter ground thy corse.

Many of us now living have heard our grandmothers say that it was most unlucky to kill a robin, and I suppose that we usually connected the idea with the thought of robin's kindness to the babes in the woods; but it goes much deeper than that. In grandmother's time it was merely unlucky to kill a robin. In the days of their grandmothers it meant that the destroyer courted death; and in the days of their grandmother's grandmothers' grandmothers' grandmothers he who killed a robin was himself to be killed by lightning. Here is the seed of the feeling that the robin is sacred: He was one of the birds of Thor, the lightning god; one of the birds that carried in his beak the writhing worm which typified lightning, and which, when it fell, could split the rocks like paper. Who would think it of him, to see him hopping cockily about the sod, tugging out his long and squirming breakfast?

There were other birds in those days who shared Robin's immunity from harm. The swallow must not be injured, for he builded in our eaves, and to touch his nest would be a breach of hospitality, almost as wicked as to rob a guest at our hearth. This fancy, too, is a relic of Paganism, for the swallow was sacred to the Penates, or household gods, of the ancients, and his preservation was a matter of religious concern. His return in the spring was greeted with solemn song, and to him the great Anacreon wrote an ode.

The swallows had a great reputation as weather prophets, too; flying low and touching the water often they are believed to foretell rain even now; but in former times they were soothsayers of greater parts. "By swallows lighting upon Pirrhuss's tents, and lighting upon the masts of Marcus Antonius's ship sailing after Cleopatra to Egypt, the soothsay-

ers did prognosticate that Pirrhuss should be slain at Argos in Greece and Marcus Antonius in Egypt." "Swallows also followed King Cyrus, going with his army from Persia to Scythia, and so it was told, and truly, that he should die there."

The number of stories about the saucy little wren are in inverse ratio to its size. The wren has many names in other languages that sound strange in our ears. He is the little king—Regulus in Latin, Roytelet in French, Konig Vogel in German; but though we do not use these names, the story which accounts for them is not wholly unknown, even to English ears.

The birds determined to have a king, and after much deliberation it was determined that he who flew the highest should be proclaimed the ruler of the rest. Upward they soared, and it seemed that the great and tireless eagle must be the victor in the contest, but the little wren, determined to make up in stratagem what it lacked in strength, had hopped upon the eagle's back, and sat there, concealed among the feathers, his tiny weight unperceived by his mighty rival. When all the other birds were exhausted and the eagle himself, wearied with flight, began to descend, the wren sprang upward and, with a mighty effort, reached a still greater height than any other bird had attained. The flocks below, watching, saw him there above, and although they could not explain the marvel, they had to live up to their agreement; so the wren was duly proclaimed, with all solemnity, the king of birds.

Like both the sparrow and the robin, the wren, in some places, and in some ages, was a bird of Thor, and in parts of France the superstition still lingers among the peasants that to rob a wren's nest makes the thief liable to be struck by lightning. Along with this protecting fear of the little harmless bird, however, there goes an equally unreasonable hatred of it, which showed itself, even a century ago, in a yearly massacre of the birds at Christmas, in the Southern lands, where they were all the year residents. On Christmas Day, of all unrighteous times, the peasants used to make great parties to hunt and kill wrens. This is explained on the ground that the wren, being a bird especially revered by the Druids, the early missionaries opposed this reverence by instituting a wholesale slaughter.

According to Pliny, who was about as reliable, though interesting, a nature student as Baron Munchausen was a traveler, it is the wren which hovers about the crocodile as he suns himself on the banks of the Nile, and when the great reptile yawns, ventures fearlessly into the open jaws, and proceeds to clean the teeth and jaws for his patient.

At different places, and in different ages, the office of the lightning bird has been given to the cuckoo, the stork, the raven, the woodpecker. They appear in these myths magnified into something gigantic, akin to the Roc of the Arabian Nights tales (which was, indeed, a storm cloud also), and by dropping from their beaks writhing worms or serpents they split the great rocks or mountains where lie the treasures of the world. Theserpents are the flashes of lightning, the mountains are the dark clouds, and the treasures are

the brightness that glows for a moment in the flash.

All these birds were sacred once, and as the old beliefs died they were still spared and guarded through a lingering, half affectionate reverence, reminiscent of the former faith. But there was another class, sometimes also spared, through deep dread of their occult powers, but more often hated and hunted as birds of ill omen. Foremost of these is the screech owl, which Spenser called "The whistler shrill, that whoso hears doth die."

Spenser wisely does not say within what limit of time he dies, and as we are all mortal no doubt the omen comes true even now if you give it time. The eagle owl, though its evil influence was less specific, was even more dreaded. The belief that it portended some great public calamity was once strong enough to cause all Rome to undergo lustration because an owl appeared within the capitol—an event which Butler commemorates in Hudibras.

The Roman Senate, when within The city walls an owl was seen, Did cause their clergy with lustrations (Our Synod call humiliations), The round-faced prodigy to avert From doing town and country hurt.

Virgil avers that it was an owl that foretold the death of the unhappy Queen of Carthage; and the same prophet warned the Emperors Valentinian, Commodian and Augustus when death was near Shakespeare knew the strength of this superstition in Rome when he wrote, in "Julius Caesar,"

The bird of night did sit
Even at noonday in the market place,
Hooting and shrieking.

Scarcely second to the owl in ill repute is the raven, that

"Prophet—thing of evil."

as Poe named it. Says Othello:

Oh! it comes o'er my memory
As doth the raven o'er the infected
house,
Boding to all.

To be sure, ravens fed Elijah, but that event has had little influence against the black superstition that has made them the prophet of death, whether to an individual or to whole companies and nations. Many are the stories of the great flocks of ravens and crows that fight over the field of battle before the engagement, or that follow the army, one for each man that is to die.

Foresight is imputed to the crow probably because he was once sacred to Apollo, the great patron of Augurs; but where their foresight got its sinister cast seems a mystery, unless it was simply because they were eaters of carrion, and haunTERS of the

gallows, when the gibbet fruit hung for weeks in the wind, and Francois Villon could write:

The rain has scoured and washed us,
The sun has dried and blackened us,
Magpies and crows have pecked out
our eyes,
And plucked our beards and eyebrows.

Perhaps the phrase, "I have a crow to pick with you," came from the ill-repute of that bird. At any rate, it dates back to 1630, and possibly earlier.

The farmer of today, rather more practical in the direction of his superstition, makes the birds who once were oracles into weather prophets. They seem almost as reliable and satisfactory as the human variety, too. The farmer will tell you that the owl hooting in the night foretells a fair day to follow; that the mournful "Cuh! Cuh!" of the blackbilled cuckoo, or rain crow, means rain; that the Bob White, when he whistles two notes only, is calling, "More—wet!" but when he adds a third note he prophesies "No—more wet!" Ravens, crows, woodpeckers, all have calls which mean rain to the farmer; the trouble being that two farmers will not always agree as to the particular call that means wet weather. Buzzards and kites flying high foretell hot weather; and even the barnyard goose, though "no witch or astrologer, yet hath a shrewd guess of raine weather, being as good as an almanac to some that believe in her." And half the hunters will swear that her wild sister not only tells of colder or warmer weather, but of rain and sun as well. Indeed, though many of our native birds have not yet acquired accredited legends which root themselves in ancient history, there are few of them that are not honored as weather prophets in some section of the country.—Floy Campbell, in Kansas City Times.

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DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

April 30, L. E. Berkheimer, Malvern, Iowa, and Geo. H. White, Emerson, Iowa, sale at Wayne, Neb.
 May 20, W. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 2, J. G. Biller, Hartington, Neb., at Crofton, Neb.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 18, H. D. Parsons, Newton, Iowa.
 June 21, Jesse Binford & Sons, Liscomb, Iowa.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
 Dec. 21, Ed Morgan, Kanarangi, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

May 3, Marvin & Durrett, Chicago, Ill., M. A. Judy, Mgr.
 May 31, H. J. Iless, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 6, James Williams, Marcus, Iowa.
 June 7, Stanley R. Pierce, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 18, Christian-Lang Co., Omaha, Neb.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.

Hereford Cattle.

Apr. 19, A. E. Cook, Sioux City, Iowa.
 Oct. 20, H. D. Clore and Z. T. Kinsell, Chariton, Iowa.

Holstein-Friesian Cattle.

June 21, 22 and 23, Robt. E. Haeger, Algonquin, Ill.

Clydesdale Horses.

June 1, R. O. Miller, Lucas, Iowa.

Poland China Swine.

Feb. 9, C. C. Polly, Whiting, Iowa.
 Feb. 10, James Cockerton, Whiting, Ia.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Lincoln Hotel, Lincoln, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Mr. J. A. Whitaker, of Sioux City, Iowa, is offering a half section of highly-improved farm land for sale in his advertisement on page 26 of this issue.

Mr. J. Aug. Carlson, of Ogden, Iowa, has a French draft stallion, coming three years old, which he is offering for sale worth the money. The advertisement will be found on page 41.

The Gabel Mfg. Co., of Hawkeye, Iowa, are offering their So Ez pig forcep for sale in an advertisement that appears on page 2 of this issue. These forceps are made of tempered spring wire and the castings heavily nickel plated.

We call the attention of Homestead readers to the advertisement of Mr. S. R. Lucas, of Anthon, Iowa, on page 21 of this issue. Mr. Lucas is offering an Iowa farm for sale at a bargain. He has other good bargains in Iowa lands which he will sell to the first comer.

Messrs. C. E. Luther & Sons, breeders of Duroc Jersey hogs, of Grand Junction, Iowa, write under recent date as follows: "Our Top Notcher sow, bred to Golden Model, has a litter of seven extra fine March pigs. There are four males and three gilts. We will be ready for business on these and others in the fall."

The Homestead is advised that the noted Poland China hog, Columbia Chief 2d, recently sold at the Wheeler dispersion sale and purchased by Mr. Gillett, of Hampton, Iowa, died a short time ago. As this was one of the representative Tecumseh hogs in the West the loss will be one which will be severely felt by the entire breeding fraternity.

Mr. R. M. Young, of Cook, Neb., breeder of Short-horn cattle, Poland China and Duroc Jersey hogs, writes under date of March 29th, saying: "I have a nice crop of spring and summer calves, all nice reds, sired by Baron Minerva 262632, a very smooth, beefy, pure Scotch-bull, son of Baron Pride 169827. This bull has proven an excellent breeder. His calves are a very fine, uniform, deep-bodied, low-flanked, straight-backed bunch. Having used him two years, I may offer him for sale this fall. I have a fine lot of early Duroc Jersey pigs sired by our big Blue Ribbon Chief boar, the best son of Ohio Chief in the West. I have also some by Capital L, a good young son of Lincoln Top. These are from a big-boned, large-type, excellent-bred lot of sows. I have also recently purchased from Mr. R. F. Miner his one-fourth in-

terest in Lincoln Top, the first-prize and sweepstakes boar at the Nebraska State Fair of 1907, and expect to use him in my herd during the coming season."

Some very high-class Cruickshank bulls are being advertised by Mr. C. C. Norton, of Corning, Iowa, on page 45. If you are wanting a herd bull go and see the bulls that he is offering for sale.

Mr. John H. Fitch, of Lake City, Iowa, has a splendid lot of young Aberdeen Angus bulls for sale of the Blackbird, Trojan Erica and Pride strains and they are certainly good ones and the prices are right. If you want a bargain go and see them.

Hereford breeders of the Northwest will consult their own interests by keeping in mind the fact that on next Tuesday, April 19th, the noted Brookmont Farm will dispose of seventy-five head of its best cattle in the sale ring at Sioux City, Iowa. Note the advertisement on page 44.

The Christian-Lang Company, of York, Neb., claim October 18th as the date on which they will make a public sale of Aberdeen Angus cattle at South Omaha, Neb. This herd has become noted because of the fact that purchases of the best of leading herds have been made for it. No doubt a splendid consignment will be driven into this sale ring.

Any of our readers wanting a high-class Duroc boar of the King of Cols. strain should see the pair Messrs. Chapin & Nordstrum, of Green, Kan., are offering. Both are by King of Cols. II. These gentlemen also offer ten good sows bred. All are Col.-bred hogs and are right. See page 42 and when writing Messrs. Chapin & Nordstrum kindly mention this paper.

Mr. A. Latimer Wilson, importer and breeder of draft and coach horses, of Creston, Iowa, writes under recent date, saying: "I will have one more importation of stallions this season. It will arrive on April 20th. On the 2d of April, Mr. J. R. Nicholson, of Nora, Neb., bought one of our best black imported three-year-old Percheron stallions." Mr. Wilson has a good supply of high-class horses open to inspection by buyers at all times. See his advertisement on page 45.

As will be noted in the advertisement on page 41, Messrs. A. H. Brett and G. O. Gould, of Mason City, Iowa, have for sale two imported Percheron stallions. One of these is a coal black, weighing close to a ton, although only in fair flesh. He has plenty of bone, size, style and action, and is sound in every respect. The other is a dapple gray with light mane and tail, perfect in make up, excellent disposition, with style, action and other good qualities. For prices or additional descriptions write to Mr. A. H. Brett, 426 West Fourth St., or Mr. G. O. Gould, 722 North Michigan St., Mason City, Iowa.

We wish to call attention to the advertisement of Col. Jay Casteel, of Cambridge, Ill., in this issue. He is advertising choice fall boars of choice breeding ready for service at once. The price will be in keeping with the quality. The spring crop of pigs are coming on in fine shape and are by several prominent sires. Colonel Casteel also has an extra fine yearling gilt by Col. King by King of Cols., dam by Commodore. This gilt is a show prospect, but will be priced worth the money. Colonel Casteel is one of our coming Duroc auctioneers and has open dates he would be glad to fill. He will go anywhere and his charges are reasonable and he always aims to make good. If he doesn't he will make it right. Look up the advertisement on page 41 and write him, mentioning The Homestead.

Mr. C. W. Huff, breeder of Duroc Jersey hogs and Red Polled cattle, of Mondamin, Iowa, makes a change in his Duroc Jersey advertisement, and also a new announcement concerning Red Polled cattle. In the letter ordering these advertisements, Mr. Huff writes as follows: "The spring crop of pigs is arriving daily and in fine shape. They are almost invariably good, strong pigs. The weather has certainly been all that could be desired for the pig business. The fall boars I am selling at present are sired by Huff's Advance and Buddy's Improver, and have been selected from about thirty head of the 'always better' kind that we raise. In the bull line, we have two good yearlings and some younger fellows. We also offer for sale the herd bull, Advancer by Protector. He is an excellent individual and a first-class breeder. We sell him simply because we have so many of his heifers in the herd." Mr. Huff's advertisement of these bulls will be found on page 43.

A Homestead representative recently called on Messrs. Buck & Miller, of Sunny Hill and Coal Valley, Ill. He found the herd in fine condition and the young Durocs arriving in large numbers. They are by such sires as the herd boars, Prince Wonder Again and Educator's Advance, as well as nice litters by King Wonder, Golden Model II, The Professor, Kelly's Pilot Wonder, Crimson Wonder III, Proud Col. Chief's Col., Defender and others. Mr. Miller, of this firm, has a choice lot of fall males which he is advertising on page 41 of The Homestead. These males are by Manley Orion's Son by Manley Orion, dam by Keep On II. The dams of these fall males are by Educator, Champion Paul and others. This is a strictly first-class lot of stuff and the writer would advise our readers to write at once in regard to them and prices. They will be sold worth the money to move them at once, as the room is needed for spring pigs. They would book orders for spring males from any of the above litters. Look

up their advertisement and write them, kindly mentioning The Homestead.

Mr. Theo. Martin, of Bellevue, Iowa, the well-known live stock auctioneer, is also a breeder of Short-horn cattle and Poland China hogs. In a recent letter ordering a continuance of his advertisement, he says: "As long as I have anything to sell I can use The Homestead to advantage. I have a fine lot of Poland Chinas coming on and contemplate a brood sow sale for February 2d, next."

Moore's High-Testing Seed Corn.

An exceptional opportunity is offered seed corn buyers by Messrs. C. Moore & Son, the well-known corn specialists, of Kellerton, Iowa, whose advertisement will be found on page 40. Messrs. Moore have some high-testing seed of 1908 crop that is good in every way, and they claim for their seed that the work they have done in breeding for high yields means an increased yield on every acre planted to their seed. Their prices are reasonable. Look up the advertisement if you need some good seed corn.

High-Class Seed Corn.

Messrs. Petty Bros., of Liberty, Mo., are offering as high a class of seed corn as can be found. The three varieties are absolutely pure, as each has been kept pure for years. These gentlemen own three large farms, so that each variety is grown on a separate farm and as extra precaution to prevent mixing, each neighbor is furnished seed of the variety Messrs. Petty Bros. plant, so there can be no danger of mixing from other fields. Furthermore, Messrs. Petty Bros. are corn specialists who are making corn growing their leading business and they send out only such corn as they know will please the purchaser. They select this corn in the fall, house it carefully and when cured it is again gone over, tested and graded. See their advertisement on page 18 and get your order in now if you want corn for this year's planting.

More of Trumans' Shires.

Mr. J. G. Truman, of Bushnell, Ill., writing under date of April 8th, says: "I am pleased to announce that our trade for first-class Shire stallions has never been better than this spring. We are also selling quite a number of Percheron, Belgian and Hackney stallions. We still have on hand a large number of the very choicest specimens of the four breeds that we import. These are from two to six years old. We are preparing to make close prices in order to move these horses this spring. We do not hope to be entirely sold out, as we never allow our stock to get that low. We have an importation on the road that will reach here on the 13th, and still another that will leave England within a few days. We enjoy an unusual advantage through the residence of Mr. J. H. Truman in England, in that he is able to pick up on short notice the best things to be found on that side of the water. He is always in the market for good ones and succeeds in getting them. The forty mares that we are selling at public sale, April 20th, are a grand lot and will not disappoint our friends when they come to see them. Catalogs of this sale will be mailed on application." The advertisement of Trumans' Pioneer Stud Farm will be found on page 47 of this paper.

The Barr Short-horns.

Breeders who are looking for strictly first-class Scotch strains of Short-horn cattle with which to improve their herds, or farmers who want to supply themselves with the better sort of Short-horn females, should bear in mind the fact that there are but few public sales scheduled for the coming season. There are in fact a lesser number of sales of Short-horn cattle announced for the next six months than has been the case for a good many years. The situation supports the belief that breeders have come to a realization that better times are already in view and that by holding the good cattle they will secure much better prices in the not distant future. This brings us to the statement that Mr. H. M. Barr, of Edgewood, Iowa, whose big advertisement will be found on page 45, has for sale a number of splendidly-bred Duchess of Gloster females, and that owing to ill health he will make bargain prices on them in order to get them off his hands on or before the first day of May, next. The prices which he has quoted are even below the range that has ruled at public sales. They are real bargains. The cattle have been inspected by a representative of The Homestead, who is willing to assure our readers that they are strictly high class, without a single one of them that shows serious fault or is subject to serious criticism. In our last issue we gave some of the facts concerning the establishment of this herd. The two foundation cows came from the Davidson herd, which is perhaps one of the best commendations that could be given. They were bought because their breeder considered them real foundation stuff and because the buyer was satisfied that they were just the sort he wanted. Their lines of breeding were superior. Their general formation was of the true beef type. In addition to those mentioned last week, we take pleasure in referring to the four-year-old cow, Madge, dam Duchess of Gloster 37th, sire Lord Prince of Maine Valley. This cow is one of the seven calves dropped by the old cow since she was brought to Mr. Barr's farm. He has a very fine red heifer calf and is as good a prospect for a good Scotch breeding cow as we know of. Marie is by Diamond of Maine Valley, he by the noted bull, Imp. Golden Fame. Her dam is Duchess of Gloster 36th. She is three years old, has raised a calf and is a good milker,

as well as being otherwise strictly first class. There are about twenty of the females in Mr. Barr's herd and nearly all of them are of breeding age. It is one of the best and most promising lots of producing cattle that we know of. We therefore urge breeders to give the matter attention and go at once to see these cattle. They must be sold. Those who are not able to make the trip should write without delay to Mr. H. M. Barr, Edgewood, Iowa.

Last Call for the McMaster Short-horn Sale.

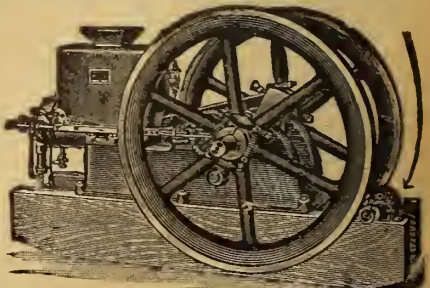
Wednesday, April 20th, at his farm near Bedford, Iowa, is the day set by Mr. Geo. McMaster for his Short-horn sale when he will sell twenty-five head of the best that he has in the herd. There are ten head of splendid young bulls in this sale that are of the desirable kind and some of these will grow into good herd bulls. They are sired by Crownwing Goods, a most excellent son of Mr. Geo. Bellows' show and breeding bull, Good Choice, and the man who is on the market for a good bull will do well to attend this sale. These bulls will be found in good shape and cannot help but do good service. Among the lot is a splendid white bull that ought to go into good hands. He is also selling some good cows and heifers in this sale. Write him for a copy of his catalog and then make it a point to be at his sale. Kindly mention The Homestead when writing him.

Allen's Short-horn Sale.

On April 5th, in the sale pavilion at South Omaha, Neb., Mr. Geo. Allen, of Lexington, Neb., held his fourth annual sale. Cols. F. M. Woods, Geo. F. Bellows and T. C. Callahan did the selling. Forty head were sold for \$9,410, an average of \$235.25. Twenty-nine cows averaged \$261 and eleven bulls averaged \$167.25. The bidding on the females was liberal from the start, but owing to the greater part of the bull offering being only in fair breeding condition, the average on this end of the sale was materially lessened. All things considered this was one of the good sales of the season. Buyers were present from Illinois, Iowa, Minnesota, South Dakota, Wyoming and Nebraska. The top of the sale, \$690, was paid for the splendid young cow, Dale's Duchess of Gloster 2d, going at that figure to Mr. Ed Morgan, of Kanarangi, Minn. Mr. Morgan also secured several other of the good ones. Messrs. Lee & Prentiss, of Vermilion, S. D., secured the good roan bull, Clipper King, at the low price of \$400. Other buyers were Thos. Stanton, Aurora, Ill.; N. A. Lind, Rolfe, Iowa; John Rasmussen, Lake City, Iowa; E. R. Silliman, Colo., Iowa; H. F. Brown, Minneapolis, Minn.; Frank Patton, Surprise, Neb.; I. Spinner, West-point, Neb.; L. R. Wright, Lexington, Neb.; A. Bruner, Lexington, Neb.; F. W. Harding, Waukesha, Wis.; Wm. Harrison, Beemer, Neb.; Geo. Ayers, Chicago, Ill.; Frank Ball, Big Piney, Wyo.; L. C. Laughlin, Clarks, Neb.; C. McCarthy, Henderson, Neb.; Geo. White and C. E. Ballin, Emerson, Iowa; Geo. Mellor, Harlan, Iowa; A. L. Klopping, Underwood, Iowa; J. B. Lyons, Wood River, Neb.; Dan Howard, Ulysses, Neb., and Jos. Bragonier & Sons, South Omaha.

Something New in Farm Engines.

The time is here when one is not warranted in saying that anything is impossible. Implements that have been considered as complete and simple as science can make them, are now and then transformed by some small patented device that makes us think how simple it all is, and wonder why someone had not thought of the idea before. This experience is illustrated by the "Simple Simon" gas engine. The members of the Armstrong-Quam Mfg. Co., of Waterloo, Iowa, who manufacture this engine, are mechanics in every sense of the word. They have finally perfected the "Simple Simon" engine which alone possesses one improvement, the movement produced by their patented roller valve gears. It is amazingly simple, yet does away



with twenty to thirty-five parts, and all usually puzzling, complicated arrangement of gears and cams. It is also equipped with the celebrated Mot-singer ignition device which does away with all batteries that cause the farmer so much trouble with his engine. This alone saves fuel and battery expense enough to pay for the engine. In other ways the "Simple Simon" is different from other engines, chief among which is its automatic suction mixer that vaporizes naphtha or distillate as well as gasoline. Its flywheels are twice as heavy as those of many engines. In other words, the "Simple Simon" is scientifically built, not simply to sell, but built to serve the farmer a life time and to serve him in such a way that he will never regret having purchased it. In all probability you will be able to see and examine one of these engines by calling on your local dealer. Whether he has one or not, it will surely pay you well to write the Armstrong-Quam Mfg. Co., 14 Chestnut St., Waterloo, Iowa, for their free engine book. It contains facts regarding gasoline engines that

you have never dreamed of. It fully describes the roller valve gears, the Molsinger ignition devices and all the other special features possessed only by the "Simple Simon" engine. Write today sure. See the advertisement on page 20 of this issue. A full-page advertisement of this unique engine appeared in our issue of March 31st.

Dakota Land Bargains.

The advertisement of the Western Land Security Company, on page 26, is worth reading by those who want to make land investments. The Western Land Security Company handle lands in the southeastern part of South Dakota, in the corn-belt region, and have an extensive list of the very best farms in that section. They buy and sell their own lands and are therefore able to make most reasonable terms to customers. Any additional particulars, descriptions or prices may be had by writing the Western Land Security Company, Sioux Falls, S. D.

Aye Bros.' Seed Corn.

Those of our readers who want seed corn should send their order to Messrs. Aye Bros., of Blair, Neb., who are now offering tested Reid's Yellow Dent corn at \$2.75 for ten bushels and \$2.50 for twenty bushels. This firm have been one of the most successful winners at the national and state corn shows in recent years. Their strain of corn won nine-tenths of all the premiums at the national and state shows, including sweepstakes ear in 1909. They are reliable seed corn breeders and growers and they will treat you right. Mention this paper when you write them.

Pritchard's Short-horns.

One of the coming Short-horn herds in western Iowa is owned by Messrs. H. Pritchard & Son, of Walnut. This firm have been most liberal buyers of Scotch cattle the past few years and they now have a good Scotch bull for sale, just turned a year old. He is a roan in color and was sired by the well-known bull, Victor's Roan Duke (the sire of the best steer ever shown in Canada). His dam is Pink Cup by Imp. Gold Cup, a bull that was sold by the well-known Mr. Platt of Canada for \$2,000. This bull can be bought right if taken soon. Write or go and see Messrs. Pritchard and kindly mention The Homestead.

Raising Calves Right.

The above is the title of a book recently published by the North West Mills Company, whose advertisement on page 15 of this paper. The book contains a great deal of valuable information on the many and difficult problems of raising calves without sacrificing new milk for the purpose. Of course, its object is to show the value of Sugarota as an assistant in this work. It proves its case, however, so well that it is important that a copy of the book be in the hands of every farmer or stock raiser. The book may be obtained free by sending a postal card request to the North West Mills Company, 519 West Third St., Winona, Minn., providing, however, that the name of your feed dealer be given.

Split Hickory Vehicles.

Now that the good roads of the season are practically here, nearly everyone will be interested in the subject of buggies, and for this reason we are glad to refer our readers to the advertisement on page 34 of the Ohio Carriage Mfg. Co. This concern have been a foremost one in the manufacture of buggies and carriages. At the present time their catalog shows 135 of the latest styles of vehicles. They have been many years in the business and their more recent styles represent the most highly-perfected buggy or carriage that can be made. They are well made, from materials carefully selected and without regard to cost, and are finished in the highest style. Every endeavor has been made to produce not only strength, but elegance of appearance. These buggies are all described in a handsomely-illustrated catalog, for which send a postal card addressed to Mr. H. C. Phelps, president, Ohio Carriage Mfg. Co., Sta. 31, Columbus, Ohio.

Hanks & Bishop Offer Fall Boars.

A Homestead representative called recently on this noted firm of Duroc breeders, and as usual found a very select lot of stuff on hand. They have not such a great number, but they have the quality. The fall males offered by them on page 41 are by the great sire, Model Wonder, and out of dams by Ohio Chief, Proud Advance, Top Notcher Again and others. One that should go into a good herd as a herd header is out of the 1909 champion sow, Chief's Jewel by Ohio Chief. He is what the writer calls a herd header in both quality and individual merit. He is the Crimson Wonder type and true to his ancestors in both type and finish. If you want a Crimson Wonder boar you better write at once. They also have a few choice fall gilts of same breeding they would breed to Proud Ohio Chief for fall litters and offer for sale. The spring crop of pigs are arriving in herds and droves. They have seventy-five head to date and ten sows yet to farrow. These pigs are by their herd boars, Model Wonder, Proud Ohio Chief and Proud Col. by Chief's Col. dam Proud Fancy by Proud Advance. Besides these good litters they have litters by B. & C's Col., champion Iowa and Illinois State Fairs, 1909; Glad Col., Crimson Wonder Again, High Col., Golden Model H., Col. S., The Professor and Defender, first at Iowa and Illinois State Fairs and grand champion International Exposition, Chicago, 1909. It goes without saying these gentlemen will have the goods, as they always do, and their show record backs them up, as they have been good winners at the Iowa State Fair for several years past. If you need a boar write them at once, as boars are

scarce. Kindly mention The Homestead.

Proud Tecumseh For Sale.

On page 41 of this week's Homestead, Mr. Herman Baltz, of Fremont, Neb., advertises his splendid three-year-old herd boar, Proud Tecumseh, for sale. He is a son of Big Tecumseh, he by Blain's Tecumseh. He also offers eighteen head of fall boars and gilts for sale at special prices if taken soon. Mention The Homestead when writing him.

A Car Load of Short-horn Bulls.

Anyone in need of a strictly select bunch of Short-horn bulls would do no better than to investigate the car load for sale by Mr. S. S. Spangler, of Milan, Mo., who advertises them on page 41. Mr. Spangler has for sale one of the best lots of bulls, all of one line of breeding, that has been offered for some time. These bulls are all sired by Marshall Anoka, he by the Great Whitehall Marshall. The lot are uniform in color and type, and this alone is a distinct advantage to parties who wish to improve the uniformity of their herd. A car of bulls such as these will do more to attain that end than anything that you can get. Marshall Anoka is generally known to be one of the best sires, as well as one of the best-bred bulls in the state. Mr. Spangler has priced these bulls to sell and if you are in the market for this class of cattle you should write Mr. Spangler at once and arrange your affairs to go and see them.

A Hereford Herd Header.

Mr. G. E. Stryker, of Rising City, Neb., is offering one of the best herd-heading propositions that is to be had this spring. He made a very good showing at the Nebraska State Fair in 1909 without any fitting. His sire, Tommy B., by Royalty Tom, and he by the great Wild Tom, is the sire of some of the best cattle that Mr. Stryker has on the farm. His dam, Imp. English Lady, is one of the best specimens of the breed, a great, massive cow, weighing a ton in good breeding condition, and one of the best producers Mr. Stryker ever owned. This bull is well grown, in splendid condition, and has been cared for in a manner to insure his future usefulness. The other bull offered by Mr. Stryker has just turned two years and is a good, useful bull, nicely proportioned, good disposition, nice drooping horns make him very desirable. For prices and full particulars write to the above address,

so Mr. Marvin made a trip to Great Britain to inspect the herds of Aberdeen Angus cattle there and to buy the best that money could secure. He bought twenty head of Trojan Ericas, Pride of Aberdeens and Jilts. The advertisement of this great sale will be found on page 42. Catalogs may be had by addressing a request to Mr. M. A. Judy, sale manager, West Lebanon, Ind.

The Carter Windmill.

The advertisement of the Enterprise Windmill Company, on page 36 of this paper, sets forth some of the more important facts with respect to the Carter Windmill. One of the strongest features of this mill is the fact that the tower is a galvanized, heavy steel affair, made extra strong in all parts, well braced and a mill which stands the hardest strains. It is stated as a fact by the manufacturers, that in all the hard storms of the year 1909, not a single Carter mill was blown down. The Carter is an old mill which has been long in favor, and which has been perfected to the highest degree. It is an easy runner that oftentimes runs when other makes are standing still. For prices, call on dealers or write to the Enterprise Windmill Company, Sandwich, Ill.

The Lang Importations.

Messrs. W. A. Lang & Co., horse importers at Greeley, Iowa, write under date of April 5th, as follows: "Our last importation of Belgian and Percheron stallions and mares arrived March 16th in the very best condition and health. There was not a sick horse nor a cough or cold in the forty head. We sold several out of this lot the next day after their arrival. The remaining number, taken together with those left from our last fall importation, enable our customers to find a first-class lot of horses from which to make their selections. Our horses are all in good flesh and sound, and prospective buyers need have no fear of finding culis or undesirable ones in our stables. Our trade for the past winter and spring has far exceeded our expectations and has compelled us to make this last importation in order to accommodate the trade. To those desiring first-class stallions or mares, we can say that they can do no better than to come here and find what they want. Our sales for the year have been to a high class of trade and have extended over several states, including Iowa, Illinois, Wisconsin, Minnesota, Nebraska, Kansas, Missouri, North Dakota, South Da-

made. The illustration which appears herewith shows the strong construction of the Advance fence. You don't need to buy a pig in a poke when you buy Advance fence. It is shipped to you on thirty days' trial, so that you may see it and know just what it is before you accept it. If you want further particulars, send a postal card request to the Advance Fence Company, Box 107, Elgin, Ill.

Col. N. G. Kraschel Locates at Harlan, Iowa.

In this issue of The Homestead appears a change in Col. N. G. Kraschel's advertisement. Colonel Kraschel has moved to Harlan, Iowa. He has moved from his former home at Macon, Ill., owing to the large number of sales he has booked in the West for the coming fall and winter. Colonel Kraschel is a well-informed young gentleman who has spent the greater portion of his life in the pure-bred breeding business. Three years ago he started in the auction business and has made a marked success. This has been because of his experience as a breeder and his ability as an auctioneer. He has made sales in seven different states and has pleased everyone that he has sold for. His terms are reasonable and he makes good as an auctioneer. Anyone in need of an auctioneer will do well to correspond with Colonel Kraschel, as he has a few good dates open. He has the ability to sell your stock for its full value. Kindly mention The Homestead when writing. See advertisement on page 41.

Four and Five-Horse Eveners.

The present conditions of labor which require the use of as many horses as one man can well manage, have created a demand for an evenor or equalizer which will distribute the work among each of the animals hitched. The Heider eveners are the product of careful experiment in this line. They



are made to suit two, three, four, five and six-horse hitches. That these eveners are a practical success is proven by the fact that thousands of them are in use. The firm make a three-horse wagon evenor for wagon, manure spreader, grain drill or implement with pole. They also make wagon doubletrees, singletrees, etc. These goods are sold by dealers generally, but if your dealer should not happen to have them on hand, write for prices and particulars to the Heider Mfg. Co., Dept. 16, Carroll, Iowa. See their advertisement on page 23.

A Splendid Nebraska Short-horn Sale.

We desire to call attention of western readers of The Homestead, and especially those who reside in Nebraska, to the Short-horn sale of Mr. L. E. Berkheimer, of Malvern, Iowa, and Mr. Geo. H. White, of Emerson, Iowa, the same to be held at Wayne, Neb., on April 30th. These well-known breeders are selling fifty head—twenty bulls and thirty cows and heifers, many of which will have calves at foot, and it is an offering that should meet with favor on the part of those who are wanting to buy Short-horn cattle. There will be some splendid cattle in this sale and the bull offering is especially strong. There will be both Scotch and Scotch-topped bulls in this sale, several of which have been leading winners in some of the strongest shows in the West. In all frankness we will say that there will be some of the best bulls in this sale that have been offered at public sale in Nebraska this year, and the man who is looking for a herd bull can most certainly find what he wants in this offering. Mr. Berkheimer is selling about thirty-five head in the sale, and among these are some good Scotch cattle. He is offering a number of good young bulls, as well as his present herd bull, Tillman. Last year he sold cattle at Wayne and the people thereabouts were well pleased with his offering. Many of his younger bulls and heifers will be sired by Bob Lee, his former herd bull, and many of the cows are sired by Lad's Heir and Gloster's King. He is selling his splendid cow, Princess of Parkdale 3d, with a bull calf at foot, also Meadow Lawn Duchess 10th, besides a lot of other good things. Mr. George H. White is selling a high-class lot of bulls, among which is Victor Marshall, a straight Scotch Missie and a bull that was a winner at all of the shows last fall. He is a red in color and is a son of Straight Marshall, which in turn was a son of the noted show bull, Whitehall Marshall. Another good bull is Ringleader, a pure white yearling bull, sired by the well-known show bull, The Dreamer. He is a splendid young bull and deserves a good place at the head of some good herd. Proud Lad is a three-year-old bull and is a son of Good Choice out of a dam by Victor Allen. He stood second at Lincoln to the noted Ruberta's Goods, and therefore is good enough to head a herd. Red Archer, a yearling son of Victor Archer and out of Lavina by Gallant Knight, is one of the good young bulls in the sale. He is a straight Lavender and his dam was one of the best show heifers in the Tomson herd. These are but a few of the best-bred bulls that will be offered. Besides these there are some splendid Scotch-topped bulls in this offering that are going to be appreciated on sale day. There are also a lot of good cows and heifers in this sale and many of these will have calves at foot. It is going to be a splendid place to buy Short-horn cattle and those who want catalogs should write either of the above parties and kindly mention The

NEXT WEEK'S SALE PROGRAM

Tuesday, April 19 { Herefords, A. E. Cook, Odebolt, Iowa.

Wednesday, April 20 { Shire Mare Sale, Trumans' Pioneer Stud Farm, Bushnell, Ill.

mentioning The Homestead. Mr. Stryker's advertisement will be found on page 41.

Montana's Leading Land Firm.

The M. A. Strang Land Company advertise Cascade county lands in northern Montana in the real estate section of this issue. This well-known concern have a record of thirty-two farms sold during the month of March, this year. Those desiring to learn more about the wheat and alfalfa lands in northern Montana should write this concern for their folders which are illustrated with half-tone engravings of farm scenes in Cascade county and containing considerable valuable information for land seekers who are interested in Montana. See page 26.

An Aberdeen Angus Dispersion.

The dispersion sale of the Audubon herd of Aberdeen Angus cattle at Chicago, on May 3d, will no doubt create a widespread interest among breeders. The cattle which comprise this sale include the herd of Messrs. Marvin & Durrett, of Payne's Depot, Ky. The dispersion is made for the reason that Colonel Durrett's interests are many and large, and compel him to retire from active business in connection with cattle raising. Mr. C. E. Marvin, the other member of the firm, is president of the American Aberdeen Angus Breeders' Association, and expects to remain in the business as a breeder. He is a born cattle man, an expert judge, and is otherwise well fitted for the business. He founded this herd in 1899, having in mind the four most fashionable families of the breed as foundation material. These were Blackbirds, Trojan Ericas, Pride of Aberdeens and Jilts. His first purchase was the bull, Zaire 15th, that headed the herd for so many years and established a reputation as one of the foremost bulls of the breed. He was purchased from the well-known Goodwin and Judy herd; his sire was Blackcap King and his dam Zara 4th. At the same time the Blackbird cow, Blackwood of Heatherton, was purchased for a start of the Blackbird family. One of the first of the produce of this pair was the bull, Beau Blackbird, that was many times a show-ring champion and is now at the head of the Boyd & King herd. The Blackbird females in the sale are daughters, granddaughters and great-granddaughters of this same Blackbird cow. Some years later the firm decided that they would have the best cattle to be found on either con-

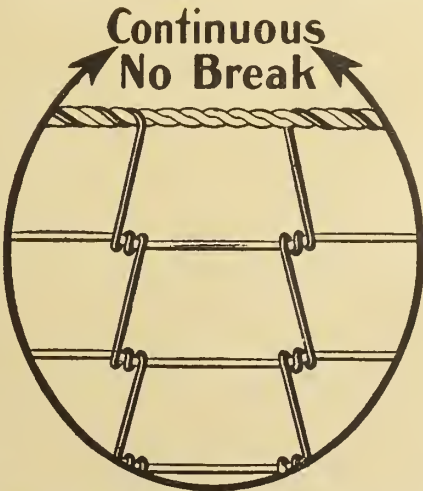
kota, Montana and Canada. We expect to sell every horse we have, and will start again in June to look up our fall importation." Advertisement of this firm will be found on page 46.

A Free Baler's Account Book.

The American Thrashermen's Association have recently made official endorsement of the new hay baler's account book, as published by the Ypsilanti Hay Press Company, whose advertisement will be found on page 17 of this paper. This book is of particular value to hay balers, providing a quick method of keeping all accounts incident to the hay baler's business. The book will be sent free to every reader of this paper who writes for it to the Ypsilanti Hay Press Company, 207 Forest St., Ypsilanti, Mich.

A Fence Maker's Friend.

The advertisement of the Advance Fence Company will be found on page 19 of this paper. The Advance fence is made of the best materials obtainable. It is made by machines constructed especially for the purpose, and operated by men of known experience and ability. The basis of the value of



the Advance fence is the fact that it is made entirely from open-hearth steel, galvanized with a heavy coat of 99 per cent pure spelter, rendering it as nearly rust proof as a fence can be

Homestead. Read advertisement on page 41.

Seed Corn of 1908 Growth.

On page 18 of this paper Mr. J. J. O'Laughlin advertises that he has for sale a large quantity of Reid's Yellow Dent corn. Mr. O'Laughlin raised in the year 1908, on his own farms, more than 12,500 bushels of corn of this variety. From this he has closely culled and selected until the quantity is reduced to 4,000 bushels. It was shelled, run through a grader and has tested out 95 per cent of growing corn. This means that practically every grain of corn can be planted and will grow. It means that there will be no loss whatever. Mr. O'Laughlin is not speculating, but is a grower who uses the same kind of corn for his own seed and is glad to sell what he has to spare at a reasonable price. Note that he quotes \$3 a bushel for this excellent corn. As the circumstances of the present season make good seed corn in demand, our readers who have not yet supplied themselves will do well to at once forward their orders to Mr. J. J. O'Laughlin, Rome, Iowa.

Bryan's Choice Duroc Boars.

Mr. L. H. Bryan, of Neponset, Ill., is offering five select fall boars for sale on page 41 of this issue of The Homestead. There are two show prospects in this pen of males that will be priced cheap compared with quality. Mr. Bryan hasn't many of these, as he picked five from twenty head, putting the balance on the market. Owing to the shortage on males these should not last long and you better write Mr. Bryan at once. They are by the sire of show stuff, Pilot Lad, he by Pilot Wonder, Pilot Lad being a litter mate to the sire of Red Wonder and Wonder Boy. The dams of these pigs are by Proud Advance and Buddy K. IV. The breeding is excellent and the quality in keeping with the breeding. Mr. Bryan has twelve select gilts of the same breeding that he would sell open or bred to Orion Chief II. These will be sold right to make room for the spring pigs which are arriving in nice, even litters. Mr. Bryan has been breeding Durocs for a long time and always has good stuff, showing that he knows his business. He is a breeder and not a man who raises them haphazard. Write him today. You will be treated right.

H. K. Ray's Choice Fall Boars.

If in need of a fall male large enough for immediate service, write to Mr. H. K. Ray, of Kewanee, Ill., as per his advertisement on page 41. Mr. Ray has these good boars and wishes to dispose of them at once, and to do so he informs a representative of The Homestead that he will price them cheap to move them at once. They are nice, growthy fellows that should be in use, and as few fall males are to be found the country over we advise Homestead readers to take advantage of Mr. Ray's offer and write him at once in regard to them. They are by Hard Advance by Harding's Proud Advance; dams are by Pilot Lad II, one of the well-bred boars of the day, being by Checkmate, second-prize pig at World's Fair, St. Louis; the second dam by Pilot Lad by Pilot Wonder. Mr. Ray has some nice spring litters and fourteen sows yet to farrow. Most of the spring pigs are by I. X. L. by Crimson Chief by Crimson Wonder, dam by Tom Watson by Top Notcher. I. X. L. is quite a good boar and we predict he will do his part in making Crimson Wonder blood popular east of the Mississippi river. Mr. Ray purchased a Defender gilt to be bred to Chief's Col. and one to be bred to Crimson Wonder III. Nothing but the best suits Mr. Ray.

Short-horn Bull Bargains.

As will be noted in the advertisement on page 43, Messrs. W. M. Smith & Son, of West Branch, Iowa, are offering for sale a number of Short-horn bulls. The Smith herd was visited by a representative of The Homestead last week. The bulls in question are unquestionably away above the average. As a foundation fact, it may be stated that they are bred as nicely as any herd in the country. They are mostly of the Rosemary family and are all the get of Count Commodore. He is a grandson of Young Commodore and his dam was Narcissus Lady, second dam Pro Narcissus by Imp. Pro Consul, third dam Imp. Narcissus by Barmpton. Back of that the line of dams traces through six generations of Cruickshank Floras and the line of sires for an equal number of generations were bred by Amos Cruickshank. One of these bulls is a November yearling, a solid red, low, blocky fellow with a mellow hide, excellent lines, broad back and splendid head and front. He is of the show-yard make-up. Another dark red bull of the same age, and bred almost exactly the same, is a trifle rangier, but with perhaps a little more refined appearance. He will suit those who want a little more style, with perhaps a little less beefiness. Another is a good red January yearling by the same sire. His dam is the Rosemary cow by Victor Mysie 2d. This fellow has promise of great size, which he inherits from his dam which weighed 1,800 pounds, and she in turn from a heavy-weight family. This is a splendid young bull. There is also an August calf that is a real show calf. Individual description would not say more than that if he were fitted he would certainly come within the money in the strongest classes. Messrs. Smith, however, decline to show him for the reason that, being an August calf, he would be obliged to get into competition with those almost double his age, and would be at a serious disadvantage. The herd is founded on cows of strong milking strains. It is a herd of quality from start to finish, with not

a poor individual in the bunch. Messrs. Smith want to sell these bulls. The animals are good enough for any breeder, and their breeding is unquestionably right in the front rank. For prices or further descriptions write to Messrs. W. M. Smith & Son, West Branch, Iowa.

Three Million Pairs of Shoes.

One of the older manufacturing concerns of the West is the F. Mayer Boot & Shoe Co., of Milwaukee, Wis. They make boots and shoes and have a capacity for the production of more than 3,250,000 pairs a year. These figures would indicate that they go a long way toward shoeing the world. The company have factories at Milwaukee, Wis., and Seattle, Wash. A factory was originally started at Milwaukee in 1852 by Mr. Frederick Mayer. Mr. Mayer was a German and having served an apprenticeship as a maker of boots and shoes, he well knew how to make good ones. This he did, and the outcome was a gradual extension of his business to its wonderful proportions of today. The Mayer shoes are advertised on page 32 of this paper. The brands which they offer for sale are "Honorbilt" for men, "Leading Lady" shoes, "Martha Washington Comfort" shoes, "Yerma Comfort" shoes and "Special Merit School" shoes. These shoes are for sale everywhere. Their high quality makes it worth while to ask for them and buy them.

Short-horns and Poland Chinas.

Herd boars and herd bulls are being offered by Mr. O. E. Wade, of Rising City, Neb. Of the five bulls, three are by the good sire, Victor's Roan Duke, he by Victor's Favorite. This bull is demonstrating that he is worthy the place on so good a herd as the one maintained by Mr. Wade. He is a dark roan, four years old and will weigh a ton. Of the other two, one is a roan, sired by Lavender King, he by the great sire, Godwin. His dam is a granddaughter of Merry Hampton. The last one is a red, sired by Pride of Bluff View, and his dam is also a granddaughter of Merry Hampton. These bulls are all well grown and are in good breeding condition. Among the boars are three of September farrow and just right to use for fall litters. Two of these boars are sired by Wade's Jumbo and out of an Orphan Boy sow. They are the big type, and are big, standing on good feet and have all the qualifications of great boars. They are worth much. Another young boar of the same age is sired by Allerton Chief and out of a half sister to old Jumbo. These animals are all in good condition and parties in need of anything in this line should get prices and full particulars at once, which may be had by addressing Mr. Wade as above. Please mention The Homestead when writing. See advertisement on page 41.

Baxter & Comer's Durocs.

A representative of this paper recently inspected the herd of Messrs. Baxter & Comer, of Pawnee and Carlinville, Ill. It will be remembered that this firm made a great show at the Iowa, Nebraska and Illinois State Fairs this year. It is not necessary to enumerate any of the prizes won at these shows, as they are fresh in the minds of everyone. B. & C.'s Col. looks like a winner again this year if fitted. His pigs in their herds are an exceedingly promising lot. The young herds these gentlemen are fitting are the best that they have ever owned. One of them is by the 1908 Nebraska champion, Crimson Wonder III. These are an exceptionally fine lot. Some of them are out of a King of Col. sow and show that the Colonel and Crimson Wonder cross produces show stuff. The other young herd is by the great champion boar, B. & C.'s Col. and are extra good. They have plenty of bone, extra feet and legs and lots of quality. These gentlemen will surely have a strong young herd for this fall's shows. At the present time they have some choice fall boars and gilts for sale at attractive prices. They are of the best of breeding and in nice condition. Anyone needing a fall boar should write Mr. Ed A. Baxter, Pawnee, Ill., or Mr. R. L. Comer, Carlinville, Ill., for price and description. Kindly mention this paper. See announcement on page 42.

Brookmont's Last Call.

The big advertisement on page 44 announces the principal facts of the great sale of Brookmont Hereford cattle, which will take place at the stock yards sale pavilion at Sioux City, Iowa, on Tuesday, April 19th. There will be no later opportunity to call attention to this sale, so we request our readers to give it careful consideration and prepare to attend the sale. There is no denying the statement that the Brookmont herd, at Odebolt, Iowa, contains the fountain head of the very best and most popular Hereford cattle of the United States. That grand old herd bull, March On, that stands at the head of the herd, is, as stated in the advertisement, the father of all the wonderful March Ons that have made so much Hereford history in show rings and breeding circles. The sale will include a very strong proportion of March On blood. There will also be other animals of popular breeding, the get of Imp. Chesterfield, Dale and tracing to Lord Wilton, Anxiety and other strains on which the very popularity of the breed has depended. There will be seventy-five head in this sale. Forty-five of these are females, ranging from fifteen months to four years of age. Practically all of them will be due to calve early in the season. The bulls are of good ages, in prime condition and desirable in every respect. The most important fact, however, connected with this consignment is that every animal has been recently tested and found to be absolutely free from any possible trace of tuberculosis. This

GET MY PRICE The Lowest Ever Made

Buy direct from the biggest

spreader factory in the world.

—My price has made it. No such

price as I make on this high

grade spreader has ever been

made before in all manure

spreader history. I save you

\$50. Here's the secret and reason:

You pay me only for the actual

material and labor at cost and one

small profit based on my enormous

factory capacity of 30,000 spreaders a

year. And I pay the freight right through

to your station. Any farmer can afford

to have a spreader when he can get in on

a wholesale deal like this on a

Only Successful Wagon Box

Spreader Ever Built

Eleven

Distinct

Patents



Fits Your Own Wagon

Freight Prepaid

5 Sizes

GALLOWAY

position! You know I didn't have the best spreader, I wouldn't dare to make such an offer. 40,000 farmers of America have stamped their O. K. on it. They all tried it thirty days free just like I ask you to try it. Get out your pencil. Drop me a postcard saying, "Galloway, send your new proposition and big spreader book free." Ask about the new, complete steel gear 70 bushel spreader.

H. Gutherson, Gladbrook, Iowa, "Works fine. Spreads T. F. Stice, Oswego, Kans. "Once pull it with my all kinds of manure better than any spreader I ever saw. Does good work. Have always used the — before. Galloway much the best. If going to buy a dozen more they would all be Galloways."

So simple, nothing to get out of repair as compared with other spreaders."

The William Galloway Company, 109 Galloway Station, Waterloo, Iowa

SEND TODAY FOR THIS GREAT BOOK

FREE

GREATEST BOOK EVER PUBLISHED ON FARMING. AN INSPIRATION ON THE SUBJECT OF AGRICULTURE.

Mr. Rankin's own story of his life—from start when 11 years old without a cent, and how he made more than a million dollars growing corn, feeding stock, etc.—just farming.

It's a thrilling book of the greatest farmer in the whole world.

Send 50 cents for 6 months subscription to Farm & Stock, the great corn and stock paper, and I will send you a Rankin Book Absolutely Free, postpaid. Just fold coins or stamps in your letter. Be sure and write TODAY!

F. J. WRIGHT, EDITOR, BOX C ST. JOSEPH, MISSOURI

Petrosote

Poultry Houses. Kills odors, germs, lice and barnyard vermin. Superior paint for barns and sheds. Five gal. can, \$1.00; fifty gal. barrel, \$5.00. f.o.b. Lincoln. SEND FOR BOOKLET telling about Petrosote.

LINCOLN GAS COMPANY, Dept. E Lincoln, Neb.

A Money Saver for the Farm

The best preparation for dipping and preserving Posts, Poles, Shingles, etc. A disinfectant for Live Stock, Sheds and barnyard vermin. Superior paint for barns and sheds. Five gal. can, \$1.00; fifty gal. barrel, \$5.00. f.o.b. Lincoln. SEND FOR BOOKLET telling about Petrosote.

LINCOLN GAS COMPANY, Dept. E Lincoln, Neb.

ALMOST SOLD OUT OF MOORE'S HIGH-YIELDING REID'S YELLOW DENT

But we have a splendid supply of 1908 crop Silver Mine (white) that tests 95%, and we ship it subject to inspection and test—your money back if it doesn't suit you. Prices for select ear seed, testing 94%, or we take it back; \$4 per bu.; 5 bu. or more at \$3 per bu.; 10 bu. or more at \$2.75 per bu. Shelled seed, same test guaranteed, \$2 per bu. This is fine seed and will not last long. Rush an order. We also offer Bloody Butcher (early) at \$2.50 for ear seed, \$2 for shelled, test 94%. C. Moore & Son, Kellerton, Iowa.

REMINGTON—\$23

FIRST \$23 buys this beautiful machine with year's guarantee. Other bargains. Write today. Standard Typewriter Exchange, 22 Park Row, N. Y.

THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago, Union Stock Yards, April 11.—The cattle trade presents somewhat of an anomaly these days. It looked as though there was to be a continuous rise in values, when suddenly the props seemed to give way under the beef trade and, despite moderate supplies at the markets, a decline of 25 to 50 cents was recorded at the market centers week before last. This decline came after, and not before or during, the Lenten season. It was due to a combination of unseasonably warm weather and a practical revulsion against the high prices ruling. However, the decline was not unexpected, for prices had advanced steadily for six weeks to the amount of \$2 to \$2.50, and besides eastern dealers were unable to find outlet for beef when they endeavored to mark up the prices of same proportionately. Last week we had light supplies and prices are very nearly back to high point of the year. The market, however, has not the outside support it should have and were we to see any material increase in supplies we doubt if the advance would long remain. However, so far as the immediate future is concerned, it would appear as though supplies were to continue moderate, but we are inclined to anticipate a pretty free movement of cattle to the market before June 1st. Feeders have confidence in the future and are not inclined to sacrifice immatured cattle, which is most excellent judgment. We cannot but believe that good quality, well-matured cattle are going to command very satisfactory prices. Meantime fat, heavy kinds, that is to say, cattle weighing from 1,450 pounds upward, should be shipped, as with warm weather buyers are showing a marked preference for the lighter and handier weights. A study of the receipts at the six leading markets the past three months shows that we have gained 23,000 cattle over the same period last year. This in view of the constant cry of shortage in the country is hard to reconcile, but the figures remain nevertheless.

KEEP BROOD SOWS, PIGS AND SHOATS.
Statistically the outlook for hogs is

Ask your neighbor to subscribe for The Homestead.

50 Head of High-Class 50SHORT-HORNS....

SCOTCH AND SCOTCH-TOPPED. To Be Sold At
Wayne, Neb., Saturday, April 30, 1910

20 BULLS--30 Cows and Heifers

INCLUDED in the offering will be some State Fair winners, some of which are grandsons of Imp. Choice Goods, Whitehall Marshall, Hampton's Best and other noted sires. The best lot of bulls that have been sold in a Nebraska sale in recent years will be offered at this time. There are some strictly high-class herd propositions in this sale. Also some good cows and heifers. Every animal has passed the tuberculin test. Write either one of us for catalog.

L. E. BERKHEIMER, MALVERN, IOWA
GEORGE H. WHITE, EMERSON, IOWA
Col. Geo. P. Bellows, Auctioneer.

bullish. Heavily diminished supplies at all markets for the entire "regular" packing season now closed and consequent depleted stocks of pork products the world over are not ordinarily encouraging to other than the hope of a "strong" market. Just now, too, there is high beef and high mutton; in fact, most all foodstuffs are "high." It is this condition that must be taken into account. There is and has been so much agitation over the high cost of living that consumers everywhere are taking into account depleted bank accounts and seeking means of greater economy in victualing the family table. Hotels, cafes and all manner of eating houses have been forced to preparation of bills of fare involving reduced outlay, the only alternative being advanced rates to patrons or bankruptcy. Conceding that supply and demand rule market prices, it were ill advised to give all consideration to one to the entire exclusion of the other. From a "supply" standpoint there is now, as for months past, much to warrant faith in the hog market. But demand, as represented by the consumer, the court of last resort, must not be overlooked. Prices are too high to warrant investment in pork products. The packer, the jobber, the retailer and the consumer are buying only for daily needs. If ever there was a hand-to-mouth market for swine we have it now. Except prices fall, the daily consumption of pork products cannot be expected to broaden. The season of reduced meat consumption is upon us, the great American hen is now getting in her best licks and fruits and vegetables will be offered more and more freely at gradually falling prices for weeks to arrive. There is nothing to discourage hog production, however, in this situation. Conceding that prices for swine have possibly seen the high point, there is yet ample room for a reduction in market values and a liberal profit to the hog raiser. Considering corn prices and general cost of bringing swine to marketable age and condition, producers well know that they can accept much lower prices and take home a good profit. The manner in which the consumer followed the advancing price of pork products the past two years is the best evidence of the popularity and the broad outlet for such foodstuffs. Again we advise marketing of swine as fast as ready, but take good care of the brood sows, the pigs and shoats. Keep them on the farm. There's money in it.

BIG TUMBLE IN SHEEP PRICES.
Prices for sheep and lambs have taken quite a tumble from the recent high point, or when the market was on a record-breaking plane. The decline was generally 50 cents to \$1. The break is attributed to various reasons, namely: a deplorable condition of the eastern dressed meat trade, hot weather, cheap eggs and plentiful supplies of fresh vegetables. Then also the filling to overflowing of the big feeding stations adjacent to the Chicago market with offerings was a big club in the hands of the packers.

This is certainly no time to get panicky. Instead owners should think twice before shipping and also be determined to not make bad matters worse by feeding a sinking market liberally. By all means do not send in anything that lacks excellent finish. Conditions certainly warrant lighter supplies and very cautious marketing during the next two weeks at least. We do not believe that packers will be able to dominate the trade if offerings are judiciously and conservatively sent to market.

SHARP ADVANCE FOR CATTLE.
A high and bounding trade in cattle last week. Reduced supplies and broader demand from all sources enabled the selling interests to have better control of the situation. Beef steers sold 35 to 50 cents higher than the finish of the previous week. The top for the week was \$8.65, being obtained by Clay, Robinson & Co. for thirty-three head of 1,568 pounds average and

TOO LATE TO CLASSIFY.

FOR SALE 2 Percheron Stallions

And several choice driving horses. One of the stallions is an imported horse and the other is American bred. They are good individuals with plenty of bone, size and style. Are sound and good breeders. Will be priced to sell at figures that will suit anyone wanting a stallion. Now is the opportunity to buy right. Address.

A. H. Brett, 426 W. 4th St., Mason City, Ia.
A. H. Brett and G. O. Gould, 723 N. Mich St.
Phone No. 1213. Mason City, Iowa.

2 HEREFORD BULLS 2

One a herd header, by Tommy B., a grandson of Wild Tom, and out of Imp. English Lady, a ton cow and one of the best of the breed. The other a Wild Tom-bred bull, a good, useful steer getter. These bulls will be priced so you will buy.

G. E. STRYKER, RISING CITY, NEB.

Bulls Bulls Bulls

Anybody's bulls may look good on paper. We have nineteen big, lusty, roan Short-horn yearlings by Marshall Anoka, that look good in the pasture and are priced to sell. Write at once, or better come.

S. S. SPANGLER, MILAN, MISSOURI.

SHORT-HORNS AND POLAND CHINAS

Five Scotch and Scotch-topped Short-horn bulls. Three extra Poland China fall boars. Bulls are sired by Victor's Roan Duke, Lavender King and Ury Chief. Boars by Wade's Jumbo and Allerton Chief. Best of individuals and are priced worth the money. Address

O. E. WADE, Rising City, Nebraska.

PROUD TECUMSEH 101353 FOR SALE

I AM offering the above 3-year-old herd boar for sale; also 18 fall boars and gilts at bargain prices. Address Herman Baltz, Fremont, Neb.

Stallion French Draft, coming 3 years old, for sale; worth the money. This is a good one. Address J. Aug. Carlson, Route 1, Ogden, Ia.

LIVE STOCK AUCTIONEERS.

H. S. and W. B. DUNCAN
CLEARFIELD, IOWA,
LIVE STOCK AUCTIONEERS
Thoroughly posted in pedigrees and sales cried anywhere. Write us for dates.

W. D. STOLLER, Auctioneer
Live Stock a specialty. Address R. 6, Vinton, Ia.

bulk of sales were at \$6.65 to \$8.00. Cows and heifers advanced 40 to 50 cents for the week, with trading in main at \$4.75 to \$6.10 for butcher grades and \$3.15 to \$3.90 for canners and cutters. Bulls sold largely at \$4.60 to \$5.65. Stockers and feeders showed 15 to 25 cents advance for the week with most trading at \$5.60 to \$6.15 for feeders and \$4.85 to \$5.35 for stockers.

BIG BREAK IN HOGS.
The market for hogs last week had quite a toboggan slide. At the close of the week prices showed mostly 25 to 30 cents decline from the previous week's finish. Top was \$10.60 and bulk of sales at \$10.25 to \$10.50. For the week the summit was \$11, paid Monday, while bulk of the week's business was done at \$10.25 to \$10.85.

LIVE STOCK AUCTIONEERS.

The National Auctioneering School of America

ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

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FRED REPERT,
DECATUR, IND.
Live Stock Auctioneer.

Cattle Sales a
Specialty

Write for Dates and Terms.

H. L. Igleheart

Glendale, Kentucky,

Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

ELWOOD J. PITTMAN

STERLING, ILLINOIS.

Fifteen years' experience
selling live stock.

Write for Terms and Dates.



LEARN AUCTIONEERING

And make from \$10 to \$50 per day. We teach by mail or here in school. 121 students attended January term 1910. The largest school of the kind in the world. Free catalog for either course, Which do you want?

MISSOURI AUCTION SCHOOL,
W. B. Carpenter, Pres., Trenton, Mo.



N. G. Kraschel
HARLAN, IOWA.

Live Stock Auctioneer

I have a wide acquaintance
among pure-bred breeders and
am thoroughly posted in my
vocation.

J. L. McILRATH
GRINNELL, IOWA.

Fine Stock Auctioneer

Duroc Jersey and Poland China hogs and
Short-horn cattle my specialty. My custom-
ers my references. Ask them. Write me.

G. C. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere.
Reasonable terms. Have
pleased others; can please you.

Write for Dates.



GEO. B. BUCK
SUNNY HILL, ILL.

LIVE STOCK AUCTIONEER

I AM thoroughly posted on all breeds of live stock.
Breeder of Red Polled cattle and Duroc Jersey
hogs. Write for terms and dates.



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WEST LIBERTY, IOWA.

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SALES made anywhere. Reason-
able terms. I also breed Poland
Chinas and Short-horns.

LIVE STOCK AUCTIONEER
SEVENTEEN years' experience in the business.
My customers are my best references. Write for
dates. Terms right and satisfaction guaranteed.

W. P. STRATTON, CAMBRIDGE, IOWA,
Breeder Short-horn cattle and Duroc Jersey swine.

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Geo. P. Bellows Auctioneer
Pedigreed Live Stock
Murryville, Mo

A. C. Manifold Auctioneer
Tarkio, Mo.
Pure bred sales specialty

SILAS ICO, Indianola, Iowa
Live Stock Auctioneer. Write me for date.

R. W. Mitchell, Albany, Mo.

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Real Estate AUCTIONEER

EIGHTEEN years' experience. Write me for
dates. Copies of my live stock poems free when
stamp is enclosed. Am booking fall, winter and
spring dates.

CAREY M. JONES,
Live Stock and Real Estate
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2856 Washington Blvd., Chicago, Illinois.

Phone West 1228.

If you want to buy or sell a Farm, City Prop-
erty or Subdivision, no matter where located,
write for terms and dates.

W. K. HENS, WAYLAND, IA.
LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock
for noted breeders. Terms reasonable. Write
for dates. Catalogs compiled.

O. L. MOSSMAN, MASON CITY, IA.
LIVE STOCK AUCTIONEER

Thoroughly posted as to pedigrees and values.
Write for dates. Terms reasonable.

DUROC JERSEY SWINE.

MODEL WONDER Fall Boars For Sale

We have a few very choice fall
boars for sale. One herd header of
much quality out of Chief's Jewel,
champion sow Iowa State Fair, 1909.
Others out of Proud Advance and
Top Notcher Again dams. For prices
and description address

HANKS & BISHOP,
NEW LONDON . . . IOWA.

MODEL TOP

HEADS herd, assisted by King Wonder. Both o
these boars are State Fair champions and pro-
ducers of show animals.

Bardwell & Barnard, McHenry, Ky.

BUY A BOAR NOW FOR SALE

FIVE fall boars. Choice, growthy fellows by Hard
Advance by Harding's Proud Advance; dams
by Pilot Lad II. by Checkmate, second in class,
World's Fair, St. Louis. These are big enough for
immediate service. In writing, mention this paper.

H. K. RAY, KEWANEE, ILLINOIS.

For Sale--12 Extra Choice Fall Boars

If you need an extra good Duroc boar
we have them by Manley Orion's Son
by Manley Orion, dam by Keep On II.
These pigs are out of dams by Edu-
cator, Champion Paul and others. Will
be priced worth the money and are fit
for immediate service. Address

GEO. L. MILLER, COAL VALLEY, ILL.
Care of Buck & Miller.

COL. J. CASTEEL Offers Fall Boars

Ten fall males ready for service, by
Champion Paul II. Dams of choice
breeding. Will price them worth the
money if ordered at once.

COL. JAY CASTEEL, Cambridge, Ill.

Do You Need a Choice Fall Boar?

I HAVE 5, the pick of 20 head, among which are
herd headers of the choicest breeding. They are
by Pilot Lad by Pilot Wonder; dams are by Proud
Advance and Buddy K. IV. I also have 12 choice
gilts, same breeding that I would sell open or
would breed them to Orion Chief II, if you so
desire.
L. H. Brynn, Neponset, Illinois.

25 DUROC JERSEY BRED SOWS FOR SALE

Sired by King Solomon II. Advancer's Choice;
Sire of equal note. Bred for March, April and
May farrow. Prices reasonable. Write us at once.
Address **A. Lentz & Son, Pierson, Iowa.**

MIDLAND Herd Duroc Jerseys. Bred sows all
sold. Yearling boar for sale. Orders booked for
spring pigs, July delivery. **S. J. Butts, Mason City, Ia.**

DISPERSION SALE OF THE AUDUBON HERD

IMPORTED AND HOME-BRED HIGH-CLASS

60 ABERDEEN ANGUS CATTLE

Union Stock Yards
SALE PAVILION Chicago, Ill., Tues., May 3, '10

THE PROPERTY OF MARVIN & DURRETT, PANES DEPOT, KY.

TEN BULLS AND FIFTY COWS

OF the four most fashionable families—Blackbirds, Trojan Ericas, Pride of Aberdeen and Jilts. This is the first time in the history of the breed where so noted a herd has been dispersed that have only four of the most fashionable families to sell. From some one of these families there has been produced and developed into supremacy, many noted animals, and if cared for will do the same for their new owners. Many herd headers and many of the great prize-winners have come from this herd. It has taken brains and lots of hard labor to build this herd to its high standard of excellence. The Blackbirds are of the Blackbird 2d branch and are closely related to some of the champions of the breed. The Trojan Ericas are the closest to the Ballindalloch Ericas that have ever been sold in America. The Pride of Aberdeen are of the most aristocratic families of the noted breed. Kimona was bred by the late Sir George M. Grant and she has eight descendants in the sale. The Jilt family has been lately revived and now it is impossible to buy one in Scotland at any price. Many of the cows will have calves at foot and rebred again. All the heifers that are old enough to breed will have been bred. This is a golden opportunity to buy the best that can be had. Buy now and do not wait to get them cheaper as all kinds of beef cattle will be selling for double the price before twelve months. The beginner who buys cattle in this sale will never regret it, for he will never have to start over. The bulls are most all last year's crop and they are a very promising lot. Heatherman 2d has been used in the herd for the past two years and he has not only proved himself a great sire but he has developed into a high-class individual, he is a herd header of the first water. We have cattle to please the most fastidious breeder, the old breeder, the new beginner and the farmer and I cordially invite all to attend this sale. Auctioneers—Cols. Igo, Binnie and Reppert. Send for a catalog and kindly mention The Homestead.

MARVIN & DURRETT, PAYNES DEPOT, KY.
M. A. JUDY, SALE MANAGER, WEST LEBANON, INDIANA.

DUROC JERSEY SWINE.

WE HAVE HAD A VERY GOOD BOAR TRADE

AND still have a few good Col. males left, and they have plenty of quality. One sired by King Solomon II., one sired by Tientsin 2d, the State Fair winner; one spring and one fall yearling sired by old Tientsin 17261. I could spare Tokio 79013, one of the best sons of Tientsin, a blue bred Tolstoy boar, and has proven himself a splendid breeder, but owing to having so much stuff related to him, will spare him at a reasonable price; in fact, all the boar stuff we have will go at a very moderate price. We have quite a number of August and September Col. pigs. We will sell cheap, so come on and let us fit you out with a Col. boar; prices right. **A. L. MOSSMAN & SON, RADCLIFFE, IOWA.**

10 GOOD DUROC SOWS BRED TO

ALSO 2 CHOICE BOARS BY KING OF COLS. II

ALL are of our choice breeding. Sows bred to G. C.'s Kan. Col. by G. C.'s Col. and Col. C. by Kan. Col. II. and out of Red Princess. Write or come and see them. **Chapin & Nordstrum, Green, Kan.**

Duroc Jersey

Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

ARTHUR L. PARKS, LELAND, ILL.

20 Duroc Gilts Bred 20

AT PRIVATE TREATY

Sired by King of Cols. 2d and G. C.'s Col. Bred to Elder's Wonder and F. B.'s Col. Also choice summer boars by same sires.

FRANK ELDER, GREEN, KAN.

The Sugar Loaf

Duroc Jersey Herd

Col. S. and Ohio Chief's Banner

HEAD HERD

A few gilts bred to the above boars for sale. Address

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We have thirty head of well-bred Duroc Jersey sows, to farrow in March, April and May for sale, at \$35 to \$50. **White Bros., Perry, Iowa.**

Duroc Jersey Bred Sows

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Helen's Chief

High Notcher

and Glad Col. head my herd of Durocs. Write for what you want.

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HIGH CLASS

DUROC JERSEY BOARS

I have five September boars sired by the sweepstakes boar, Crimson Wonder Again, and out of H. A.'s Queen for sale that are sensational herd boar propositions. Also a number of other good boars. Write or come and see me. **W. M. SELLS, INDIANOLA, IOWA.**

EDWIN HUMMER

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B. & C.'S COL. Grand champion, Illinois and Iowa, 1909. Crimson Wonder, Ill., grand champion, Nebraska, 1908, and McNeil's Model, champion under year, Ohio, Indiana and Illinois, 1907. Sows all sold. A few good boar pigs. Address **Ed. A. Baxter, Pawnee, Illinois.** **R. L. Comer, Carlinville, Illinois.**

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HUFF'S Advance, Brighton Wonder, Buddy's Improver. A few choice September boars for sale. The "Always Better Kind." **C. W. HUFF - MONDAMIN, IOWA.**

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE



My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires

We bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**



WAYSIDE HAMPSHIRE

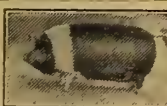
We bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.

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STONE STOCK FARM HAMPSHIRE

My herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, **E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.**



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I WON champion on pen of Hampshire barrows; also champion on single barrow at the 1909 International Stock Show. 30 sows bred for March, April and May farrow, for sale. Also breeder of Short-horn and Double Standard Polled Durham cattle, Bourbon Red turkeys, Pekin ducks, and Barred P. Rock chickens. Write me. **John Goodwine, Potomac, Illinois.** When writing mention this paper.



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We have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

25 Head of Spring Boars

5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable. **H. D. DeKALB - DeKALB, IOWA.**

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CHOICE FALL BOARS FOR SALE

THEY are of the same prize-winning blood as those with which I won 141 prizes at five big state fairs of 1909. Low prices to quick buyers, as I must make room for the spring crop. **D. H. LEWIS, GENESEO, ILL.**



CHESTER WHITE FALL BOARS

I HAVE a few choice fall boars, old enough for service, and will quote low prices on them. Sows and gilts are all sold.

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A FEW more tried brood sows and fall yearlings, and 25 spring gilts, bred to farrow in April and May. They are extra good ones. Also spring and fall boars. Blood of Hadley, P. W. Giant, Jumbo and Victor. Reasonable prices. Address **F. W. McINTYRE, Route 5, RED OAK, IOWA.**

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TRUE type of these great type Poland Chinas from the most prominent and popular herds of the breed. Sows selected from the breeding of John Blain, Fred L. Rood, W. W. Wheeler, John Matler, H. Dorr, J. O. James, Peter Mouw, Cox & Hollis, rake and others. For sale—I will book orders for pigs at weaning time at reasonable prices for the high quality and famous big-type breeding. Come or write and I will price them right to you. **ROY E. STIDUM, R. 5, CARTHAGE, ILL.**

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Large Yorkshires

Champion Herd of U. S.

Special offering now 128 gilts, 9 to 12 months, guaranteed safe, due last of March to June, now ready for shipment; weight 200 to 375 lbs., prices 1. o. b. \$40 to \$75 each, depending on size, quality, age and date of breeding. Also 20 sows of fall litters at \$25 each. Order early, as demand was never so strong.

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ABNEY'S Prize-Winning Galloways.

HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otter and other cows equally well known. Write your wants; we can suit you. **A. G. Abney, North Loup, Valley Co., Neb.**

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HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address **John C. Gahring, R. 1, Box 29, Marengo, Ia.**

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Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. **Wm. Barrans, Leuox, Iowa.**

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EMANCIPATOR 5TH 821235.

We Are Offering Herefords
MALE OR FEMALE

of the choicest breeding and individuality. We meet anyone in price who will furnish the same quality of goods. Write us your wants.
CARROTHERS BROS., RYAN, IOWA.

HEREFORD BULLS

All by Fulfiller 2d, son of the champion, Fulfiller, and chiefly out of dams by Columbus 6th and Imp. Templeton. They are choice, low, thick and beefy, and are ready for service. All of my own breeding. Come and see them or write.
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WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.
Warren Gannon & Son, Des Moines, Iowa.
Originators of Polled Herefords.

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A FINE lot of cows and heifers, sired by or bred to Brigadier 10th 217618 (a grandson of Lamplighter). All are of good lines of breeding, and of excellent individual merit. I have too many, and will sell some of them at bargain prices to reduce the number. You will buy if you see them.
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I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address
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THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.
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Z. T. KINSELL - - MT. AYR, IOWA.

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FROM 12 to 24 months old, sired for the most part by FAST FREIGHT. Good individuals, prices right. **G. G. CLEMENTS, ORD, NEBRASKA.**

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GOOD young cattle, bulls or heifers, for sale. Herd headed by Improver's Hesiod 107727. Blood lines of popular strains.
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SEAMAN'S Red Polled Cattle. 50 h'd, the equal of any ever sold in Ia. 7 yr. old and 2-yr. old bulls, 46 to 50 cows and heifers of the greatest milking families known to the breed. Part of the old W. H. Seaman herd, Davenport, Ia. Visitors can be shown 125 head of good Red Polleds as can be found in U.S. G. Seaman, R. 5, Davenport, Ia. Telephone to farm.

RED POLLED BULLS

TWO yearlings and some younger ones. Also offer our herd bull, Advancer, by Profector. Write for description, breeding and prices.
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MAPLE Grove Red Polleds. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

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Ayrshire Cattle

YOUNG stock for sale. Bulls heading our herd are from advanced registry stock. Prices reasonable. Fred Tschudy & Sons, Monroe, Wis.
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ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Donohoe, of Holbrook, Iowa, and C. Leahy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42083 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

CARLOAD

Angus Bulls

SURED by Scottish Hero 52494 and Glen's Prilenos 91606. In ages from 10 to 20 months, in good, useful condition for the buyer. If you want bargain prices on bulls write me.

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HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfoi Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfoi Thicket, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Herdsman.

INVERNESS
ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address,
ED. T. DAVIS, - IOWA CITY, IOWA

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by Imported Ideal of Stranden 28158 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. R. Wilkinson & Sons, Mitchellville, Ia.

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I HAVE a splendid 2-year-old Trojan Erica, a 2-year-old Blackbird and Pride bull. Also Queen Mothers and several younger bulls at bed rock prices. John H. Fitch, Lake City, Iowa.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Lquestor; also a few choice cows and heifers. Prices reasonable.
WILL L. COLEMAN, CORNING, IOWA.

ANGUS BULLS, COWS and HEIFERS

THREE bulls for sale; also three bull calves, dropped last August and Sept. They are sired by ten bulls and out of one of the beefiest cow herds in the state. My cattle have size, breeding, quality. Call on or address A. G. Messer, Grundy Center, Ia.

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WE are offering a splendid 2-year-old, double-bred Blackbird bull for sale; one excellent Gilt bull; 3 Prides and several others. These are good bulls, and our prices are bed rock.
Iscubarger Bros., Battle Creek, Iowa.

ALFALFA HERD ABERDEEN ANGUS

Ericas, Blackbirds, Prides, Queen Mothers for sale. **Harrison & Harrison, Indianola, Neb.**
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HOLSTEIN-FRIESIAN CATTLE.

Rock Brook HOLSTEINS

I have a few choice young bulls for sale that are fit to head good herds. Also a few choice cows and beifers for sale.
HENRY C. GLISSMAN, Station B, OMAHA, NEBRASKA.

HOLSTEIN BULLS

TWO to twelve months old; our own breeding. Dams give from eight to twelve thousand lbs. milk per year under ordinary farm conditions. Sire, Sir Netherland Cornucopia, whose two nearest dams averaged thirty lbs. butter and 6 nearest dams averaged twenty-five in seven days. Why buy picked up culls from a dealer when you can buy fashionable, high-class stock from a breeder? Let us send you our price list. We price them right.
WOODLAWN FARM, STERLING, ILL.

LARGEST HOLSTEIN AUCTION

EVER held, June 21, 22, 23, 1910. Over 300 head Peaches and Cream, bred direct from the world's champions. For information, watch The Homestead or write R. E. Haeger, Algonquin, Ill.

Registered HOLSTEINS

10 Bulls fit for service. Cows and heifers any age.
W. R. Gates, Fort Atkinson, Wisconsin.

ELLIOTT'S Holstein-Friesians

YOUNG bulls from A. R. O. dams, for sale. They are our own breeding and will prove money makers for you. Buy the best and succeed.
JESSE R. ELLIOTT, WOODWARD, IOWA

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MALES and females for sale. Herd numbers eighty head. Tuberculin tested. We guarantee our stock. **T. J. BARMORE, Monroe, Wis.**
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Brook Hill Farm
Pure Bred Guernseys For Sale

A FEW bull calves under six months of age. No females. Send for sale list.
David W. Williams, Supt. GENESEE DEPOT, - - WISCONSIN.

SUNNY VALLEY
GUERNSEYS

Males and Females for Sale
WRITE TODAY.
W. M. JONES, WAUKESHA, WIS.

GUERNSEYS

FOR SALE—I am overstocked and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.
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WAUKESHA
GUERNSEYS

THE herd numbers about 90 head. We are breeding for production and at this time are offering a few males and females at reasonable prices. If you are interested in Guernseys write or call upon
A. W. and F. E. Fox, Waukesha, Wis.

BONNY BOY
GUERNSEYS

I have a few young bulls for sale at this time. They are from some of my best milking dams. Address,
RALPH TRATT, WHITEWATER, WIS.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 9386, a son of Stranford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinhurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale.
Ben Clark & Son, R. 1, Whitewater, Wis.

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Three Pure Scotch Bulls
FOR SALE

FOURTEEN to 18 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Khellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight.
T. A. DAVENPORT, BELMOND, IOWA.

REGISTERED BULLS
WANTED

We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd head-ers. Write us immediately. Address
Bragonier & Son, South Omaha, Neb.

WHITE BROS.
CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

SCOTCH
BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address
S. A. BIXLER, CORNING, IOWA.

SHORT-HORNS and
PERCHERONS

We have a nice lot of Scotch Short-horn bulls for sale at reasonable prices. 20 head Percheron stallions and mares. Write for prices.
SMITH & BARNHART, South English, Iowa.

PUBLIC SALE

Cedar Hill Short-horns
Bedford, Iowa, April 20, 1910.

25 HEAD 15 cows and heifers—10 Bulls. There will be a splendid lot of young bulls in the sale, sired by **Crowning Goods**, a son of Good Choice. Write me at once for catalog.
GEO. McMASTER, BEDFORD, IOWA.

Plain View Stock Farm

6 GOOD, all red, Scotch Top Short-horn bulls for sale, 18 to 22 months old; they will suit you when you see them. Parties met who notify me. Address
GEO. A. HANS, - NEWTON, IOWA.

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns. HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address
GEO. H. WHITE, EMERSON, IOWA.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch.
Wm. M. Smith & Sons, West Branch, Iowa.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by **Royal Goods**, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address **Riley Bros., Albion, Neb.**

MILKING SHORT-HORNS

YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk, or weigh in the milk for the herd. **BLACKMER & NELSON, Albert Lea, Minn.** Farms 1 and 2 miles from town.

SUMMIT HERD OF SHORT-HORNS

20 Short-horn bulls for sale, of serviceable age; all good colors and choice breeding, and well grown. Prices right. **Lee & Prentiss, Vermilion, S. D.**

Six Short-horn Bulls for Sale

WE are offering six head of good young Short-horn bulls for sale, five reds and one roan. Good ones and at reasonable prices. Write us at once. **H. Pritchard & Son, Walnut, Iowa.**

Good Scotch Bulls for Sale

I AM offering a splendid lot of young Scotch bulls for sale, sired by **American Goods**, a son of Imp. Choice Goods and **Baron Kear 3d**. Strictly all right and prices reasonable.
W. H. McLAUGHLIN, SHELBY, IOWA

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, **JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.**

A FEW CHOICE SCOTCH
SHORT-HORN BULLS For Sale
I Barr & Son, Davenport, Ia.

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NOTICE

30 Holstein Bulls for Sale

10 HEAD are from A. R. O. dams and balance are from dams not tested. These bulls are in age from five to fourteen months; well-grown and first-class individuals, from dams that are kept for profit. These bulls are sired by two sons of Homestead Jr. DeKol, the sire of Grace Fayne 2d's Homestead, world's champion cow. Balance by Jobanna Rue, Sarcastic Lad, 12 A. R. O. daughters and close up in breeding of Colantha 4th Johanna. Prices low according to stock. Mention this paper when inquiring. For information, address
L. G. LEGLER, JUDA, WISCONSIN.

Holstein Cows

ARE in the lead in the Wisconsin Dairy Cow Competition. Look up the record recently made by Daisy Queen Netherland 2d Plebe and then write her owner and breeder for some similarly and equally well-bred bulls.

JOHN ERICKSON, WAUPACA, WIS.

MONONA FARM HERD

OF pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.
P. W. ALLIS, MADISON, WISCONSIN.

SIoux CITY APRIL 19



**Imp. March On 76035, Father of all March Ons
NOW IN BROOKMONT HERD**

BROOKMONT

THE 75 cows, heifers and bulls which we will put through the sale ring in the stock yards pavilion at Sioux City, Iowa, Tuesday, April 19, are selected for the express purpose of making this the greatest Hereford sale of the season. They are strongly representative of the blood of Imp. March On, Anxiety, Lord Wilton, Imp. Albany, Imp. Southington, Dale, etc., and make foundation material that cannot be improved upon. They are in breeding form suited to ordinary farm keep, and have been raised that way. They are healthy and thrifty and guaranteed free from tuberculosis. 30 bulls of serviceable age; 45 females, nearly all with calf. This will be a rare chance to buy true Hereford type and splendid individuality. Get a catalog at once. Auctioneers---Cols. F. M. Woods, Fred Reppert and A. S. Teaquist.

A. E. COOK, ODEBOLT, IOWA.

Scotch SHORT-HORNS

FOR SALE AT
EDGEWOOD, IA., BEFORE MAY 1

Ill health compels me to part with my herd of Short-horn cattle within the next thirty days. They are mostly straight Scotch

DUGHESS OF GLOSTER COWS

Good ones, of choicest breeding, that have been reserved because of their quality, scale and true Short-horn type. You cannot appreciate how low my prices are until you come and see them. But come quick. :- :- :- :-

H. M. BARR, EDGEWOOD, IA.

SHORT-HORN CATTLE.

CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and Bred to Narcissus King, singly or by carload. You will buy if you see them.

R. J. COX GRINNELL, IOWA

S. H. THOMPSON'S SONS

IOWA CITY, IOWA.

A SPLENDID lot of Scotch bulls of fashionable families, at prices to move them. Write for descriptions or visit herd. We can please discriminating buyers.

The "STAY THERE"
Aluminum Ear Markers
are the best. Being made of aluminum they are brighter, lighter, stronger and more durable than any other. Fit any part of the ear. Nothing to catch on feed trough or other obstacle. Your name, address and any series of numbers on each tag. Sample tag, catalogue and prices mailed free. Ask for them. Address: **WILCOX & HARVEY MFG. CO., Dept. A, 325 Dearborn St., Chicago, Ill.**

Wildwood Scotch and Scotch-Topped SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Brawlt Lad. For description and prices, address **W. W. VAUGHN - MARION, IOWA.**

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big type Poland Chinas. Write your wants. **W. J. HATHER, ORD, NEBRASKA.**

BATES BULLS

SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address **O. M. HEALY, BEDFORD, IOWA.**

HORSES.

Horse Breeders



Artificial MARE IMPREGNATORS
We GUARANTEE you can get from 2 to 6 mares in foal from one service of stallion or jack. Increase the profits from your breeding stables by using these Impregnators. No experience necessary to use them successfully. Prices, \$3.00 to \$5.00 each prepaid. Popular SAFETY IMPREGNATING OUTFIT, especially recommended for impregnating so-called barren and irregular breeding mares, \$7.50 prepaid. Write for CATALOGUE which illustrates and describes our Impregnating Devices, Breeding Hobbles, Stallion Bridles, Shields, Supports, Service Books, Etc. **CRITTENDEN & CO., Dept. 48, Cleveland, Ohio.**

Increase Your Profits

MARES FOR SALE

The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an International winner, and one imported Hackney mare, both with foal. Address **DIVISION OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.**

FOR SALE CHEAP—Percheron, Clyde and Shire stallions, 1,800 to 2,200 lbs.; easy terms. 1/2 ton type; Poland China sows. **J. J. BURRIER, Cedar, Iowa.**

HORSES.

JOHN MORAN

NEVADA, IOWA.

IMPORTER AND BREEDER OF

PERCHERON Stallions and Mares

At the present time I am offering twelve head of grand imported mares and three imported stallions at prices that will look attractive to buyers. If you are intending to buy come and see these stallions and mares. The mares are from yearlings up to four years of age, both blacks and grays, and matched pairs can be selected. For good goods at the right kind of prices I can satisfy your wants. Come and see me.

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$500 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.



HART BROS., OSCEOLA, IA.

Clydesdale Headquarters

McLay Bros., Janesville, Wis. NEW IMPORTATION—18 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine International than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

Percheron Stallions Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. Will F. Hooker, Northboro, Page Co., Ia.

CLYDESDALES AND PERCHERONS—Imported and home-bred. A select lot of stallions and some extra choice mares. Prices right. Address **R. O. MILLET, Route 1, LUCAS, IOWA.**

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. **A. Latimer Wilson, Creston, Ia.**

HORSES AND JACKS.

FRANK IAMS'

"Selling Clothes" will fit all buyers, prices reduced for 60 days. He has all his Prize Winners and largest horses on hand. His 1910 Imported Stallions have all competitors "skinned to a frazzle." They are "Rosy Ripe and in the 'Pink of Condition.'" All imported September, 1909, and "fully acclimated." They are "Live wire business propositions" that "knock the persimmons" on a "wide-awake horse buyer's Easter hat." Iams' "Peaches and Cream" imported stallions are "Eye-openers," "Big Diamonds" (compared with others). His barns are full of "Top Notchers" and at "big bargains," and all must "positively be sold" within the next sixty days. Iams' **FORTY PRIZE MEDAL WINNERS** at Paris and Brussels and leading European "Horse Shows" are still in Iams' "Big Barns." "Ikey Boys," get into Iams' "money-saving" game. Buy a stallion and save \$300. Iams "tickles" buyers with "Rippers" at "Let-Live Prices." Owing to bad crops, panic—Iams' cash, his 28 years' successful business. He bought and sells horses cheaper than ever. Mamma, Iams is a "hot advertiser," but "he has the goods," and sells horses at his barns only. Buyers get the "middleman's profit at Iams". Iams has

100 --- PERCHERONS AND BELGIANS --- 100

Two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions, all registered and branded. He sells "Toppers" at \$1,000 and \$1,400 (few higher), so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000--SAVED AT IAMS--\$1,000

Ikey, "What a graft" these "stallion" salesmen are working on the honest farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams yourself. Take no salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His 1,200 stallions are very much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the language, buys direct from the breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by a half million dollars.

Write for MILLION DOLLAR HORSE CATALOG

Greatest on Earth. References—First National Bank, Omaha, Neb.; Omaha National Bank, Omaha, Neb.; St. Paul State Bank and Citizens' National Bank, St. Paul, Neb.

ST. PAUL, NEBRASKA.

NOW IS YOUR OPPORTUNITY
TO OBTAIN A FIRST-CLASS, IMPORTED
PERCHERON, ENGLISH SHIRE OR BELGIAN STALLION
AT prices never before duplicated by any importing establishment in the United States, breeding and quality considered. 60 head on hand to select from, including a new importation just received March 10th. We give you a straight 60% breeding warranty without any ifs or ands attached to same. Visit our establishment, inspect our stallions, and we feel assured you will purchase one of our horses. If you have not received our new catalog, drop us a line for one. It is free for the asking. Our office is located in the Lincoln Hotel Building.
Watson, Woods Bros. & Kelly Co., Lincoln, Neb.

Percheron, Belgian and Shire STALLIONS AND MARES
WE are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old and third Belgian mare three years old.
PETER HOPLEY & SON - LEWIS, IOWA.

Percheron, Belgian and Shire STALLIONS AND MARES

FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$500.

CLYDESDALE STALLIONS

FOR SALE from 1 to 3 years old. Also some Clydesdale mares. Prices reasonable, easy terms. **J. C. SAVAGE - FORT DODGE, IOWA.**

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14 to 16 hands. Everything guaranteed as represented. Est. 1892.

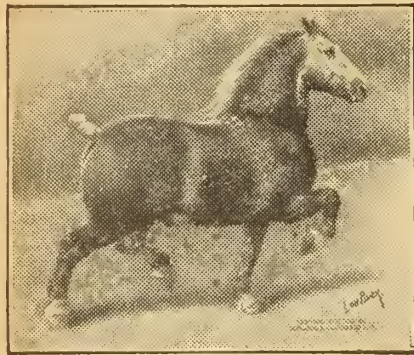
J. C. HUCKSTEP, Prop., BOLIA, MO. Pike Co.

Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales.
L. A. MATERN, - WESLEY, IOWA.

HORSES AND JACKS.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

Stallions and Mares

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.



HENRY LEFEBURE, FAIRFAX, IOWA.

GEO. W. SOUERS & SONS, HUNTINGTON, IND.
IMPORTERS OF
PERCHERON AND BELGIAN
...HORSES...

If you want to see the best bunch of Belgian stallions to be found anywhere in the West, come to our Sioux City branch barn. Our guarantee is iron clad and there is no importer in the United States who can beat our terms and prices. A visit will convince you. Write for our 1910 catalog. Barns at the Sioux City Stock Yards.

Herbert E. Bray, Manager, Sioux City, Iowa

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.

MAMMOTH JACKS

WE make a specialty of fine young jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON,
BATAVIA, IOWA.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.



HORSES

PERCHERONS,
Belgians, German Coachers
AND AT LOW PRICES.

A. R. IVES, DELAVAN, WISCONSIN.

PRIZE BELGIAN
IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$800 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

HORSES.

PERCHERONS

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS AND MARES FOR SALE AT KEOTA.

FIFTY stallions and thirty-five mares. We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold



COME AND SEE KEISER'S PERCHERONS AT KEOTA.
C. O. Keiser, Keota, Iowa

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C. & B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

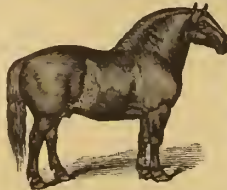
Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

Imported Percherons, Shires, French Coachers
STALLIONS AND MARES

\$1,000 IS THE PRICE ON STALLIONS FOR NEXT THIRTY DAYS \$1,000

Mares bred to the Champion, CARNOT 66666. Come and see them.

S. J. MILLER, KIRKSVILLE, MISSOURI.

Percherons and Belgians

THE NEW WAY "ONE PRICE." THE ONLY WAY "THE SQUARE WAY." Compare my horses and prices with my competitors; then buy where you can do the best. Thirty head of mares and stallions just landed.

W. J. BUTLER, OTTAWA, ILLINOIS.
Long Distance Phone.

Percheron Stallions and Mares

SHIRE, Clyde and French Draft stallions. Standard-bred stallions and mares. Registered Draft mares. (Decatur County). E. P. Hamilton & Sons, Garden Grove, Ia.

Percheron Horses for sale; stallions and mares any age, good boned ones. Will sell cheap. Ben Bohlander, R. 2, El Paso, Ill.

Stallions and Mares
...For Sale...

THE Iowa State College is offering for sale two choice Clydesdale stallions, coming two years old; one Clydesdale mare, five years old, and one imported Shire stallion, five years old. Address

DEPARTMENT OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address GEORGE W. BILBO, CRESTON, IOWA.

Pony for Sale Spotted Shetland, 4 years old; in foal; safe for children. Address LOCK BOX 61 - EARLVILLE, IOWA.

HORSES.

TRUMANS' SHIRE MARE AUCTION

WE WILL SELL AT PUBLIC AUCTION ON THE
PIONEER STUD FARM, BUSHNELL, ILLINOIS, WEDNESDAY, APRIL 20, 1910
 (RAIN OR SHINE)

40≡IMPORTED SHIRE MARES≡40

OWING to the many inquiries for imported Shire mares, we have concluded to offer this consignment direct from the **London Shire Horse Show**, and from some of the leading breeders of England. That veteran Shire horse judge, J. H. Truman, has purchased them regardless of cost, being determined to present to the **American public** as heretofore the **best possible to procure in England**. Remember, at our sales **you buy them at your own price**. Be sure and arrange to attend this great sale of mares. We have upwards of **100 Shire, Percheron, Belgian and Hackney stallions** for private sale.

Write for catalog and other information. Mention this paper.

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

**W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM,
 CEDAR RAPIDS, IOWA.**

Special Announcement of Our Second Annual 30-Day Sale

STALLIONS and MARES

A MERICAN-BRED Percheron mares from \$350 to \$600; imported Percheron mares from \$600 to \$700, ages from 2 to 4 years, weighing from 1,700 to 2,000 pounds. All registered in P. S. of America. We have some extra good imported Shire mares with size, bone and quality—International winners—at very low prices. The above mares are guaranteed sound and satisfactory brood mares, most of them being heavy in foal. A choice selection of American-bred Percheron stallions, 2 and 3 years old, from \$500 to \$800. Our imported Percheron, Belgian and Shire stallions are the large, ton, drafty kind, with plenty of bone and quality. All of them will be priced so as to move them quickly. All stallions guaranteed sound and 60 per cent breeders. We are making these extremely low prices for the next thirty days to make room for our new importation of 60 head of Percheron stallions and mares that will land here April 20th. Therefore, if you want a real bargain in a first-class animal of either sex come at once and get your choice. Our motto:—honest treatment, square dealings, best terms and best guarantee. Write our Home Banks for reference. Homewood is on the main line of Big Four and I. C. railroads, 23 miles south of Chicago; Suburban trains hourly; Bell phone, Homewood 204.

S. METZ & SONS, Homewood, Ill., or Abilene, Kan.

REGISTERED STALLIONS AND MARES PERCHERONS—BELGIANS—SHIRES



WE have a large stock of both Imported and Home-bred registered. Come and see them. We will sell them very reasonable. Send for catalog.

**NORTH & ROBINSON
 GRAND ISLAND - - NEBRASKA.**

100 RHEA BROS.' 100 ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to
ARLINGTON, NEB., on main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

New Importation of Percheron, Shire and Belgian Stallions

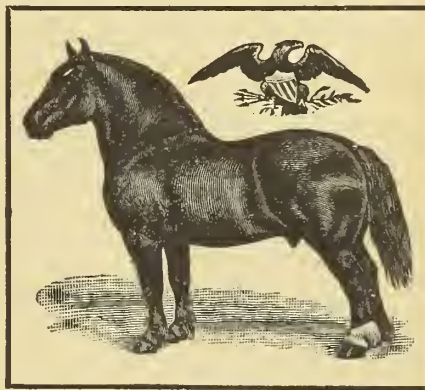
EXTRA weights, bone and quality; solid colors. Prices always moderate. Large assortment at each barn. Come make your selection. **PERCHERON IMPORTING COMPANY, CHAS. R. KIRK, MANAGER, CHARITON, IOWA, AND SOUTH ST. JOE, MISSOURI.**

When Writing to Advertisers Please Mention This Paper

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

**Percherons,
 Belgians,
 Shires,
 German and French
 Coachers,
 Hackneys.**



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

A. B. HOLBERT, Greeley, Ia.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra toppy stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



PERCHERONS AND PERCHERONS ONLY

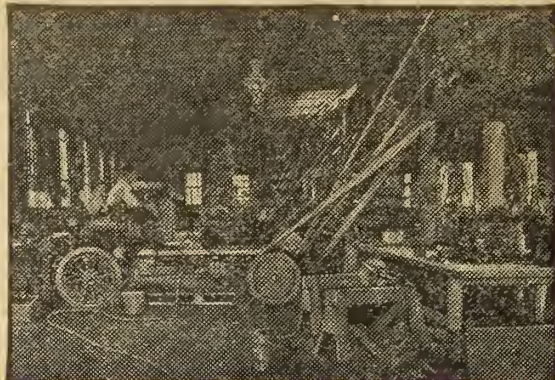
ERNEST L. HUMBERT & SON, CORNING, IOWA,

ARRIVED home with their twenty-ninth annual importation of *Percheron stallions* this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see *OUR Percherons* before buying. Telephone service. Their 1909 importation arrived November 18th. **Ernest L. Humbert & Son, Corning, Ia.**

When Writing to Advertisers Please Mention This Paper



The "MAYTAG" is the only car of any price or power that has been able to climb this grade. It goes up, backs down to the middle and on up again. Expensive cars have failed with no load but the chauffeur. It is so steep you cannot walk up without wearing rubbers.



This shows partial view of machine shop in our old factory. The wonderful "MAYTAG" engine furnished power for the operation of all machinery for two days while our steam power plant was out of order. A "MAYTAG" engine is equal to all emergencies.



This shows a "MAYTAG" climbing a rough, sandy hill of over 50% grade at Big Springs, Texas. No other car could ever do it, so it is now called "Mason Hill" (our car was then called the Mason.) This proved so definitely the superiority of our cars that 75 were sold almost immediately in that locality.

The Record of the "Maytag" Formerly the Mason Proves It the Wonder of All Cars for Country Use

IT IS the wonder of all cars for every use that an automobile can be put to, for that matter. But we lay stress on its value for country use because no other car, regardless of price, can approach it in climbing hills, going through mud, snow and sand, and on high speed, too, if you wish.

Not because we say so. All manufacturers claim big things for their cars. But the facts prove it. The history of the tests relate the victories of the "MAYTAG." Let us send you the facts. Let us prove to you that in the most trying events of the motor world, like a Glidden Tour, a Hill Climbing Contest, an Endurance Run or an Economy Test the wonderful "MAYTAG" has been victorious over cars costing two, three and even four times as much.

For four years there has been no car in the field that dared to challenge the "MAYTAG'S" title of the

Greatest Hill Climber

Note the photographs above. These show the "MAYTAG" "doing things"—things that other cars cannot do. There may be ugly hills about your locality, or you may choose to take a long trip some day and you'll want to get there, regardless of the roads. Surely some time you'll want to push through mud, snow, sand. Why take chances on being stalled? And yet a "MAYTAG" is an inexpensive car—low in first cost, much the lowest when value is considered and by far the most economical to maintain. No other car will travel further or deliver as much power on every gallon of gasoline as the "MAYTAG." The following reports from users prove it

A Marvel of Economy

Mr. Calvin Antrim, Cumberland, Iowa, bought his "MAYTAG" (formerly the Mason), in 1907. He writes that he has driven his car about 4,000 miles, that it has cost him just 40 cents for repairs, that it is in good condition now and we could do nothing to make it more satisfactory.

Mr. Peter Brown, Huxley, Iowa, bought in 1907, has driven 4,000 miles, has paid only \$10.25 in all this time for repairs, is recommending the "MAYTAG" highly, says his is in fine shape now, entirely satisfactory.

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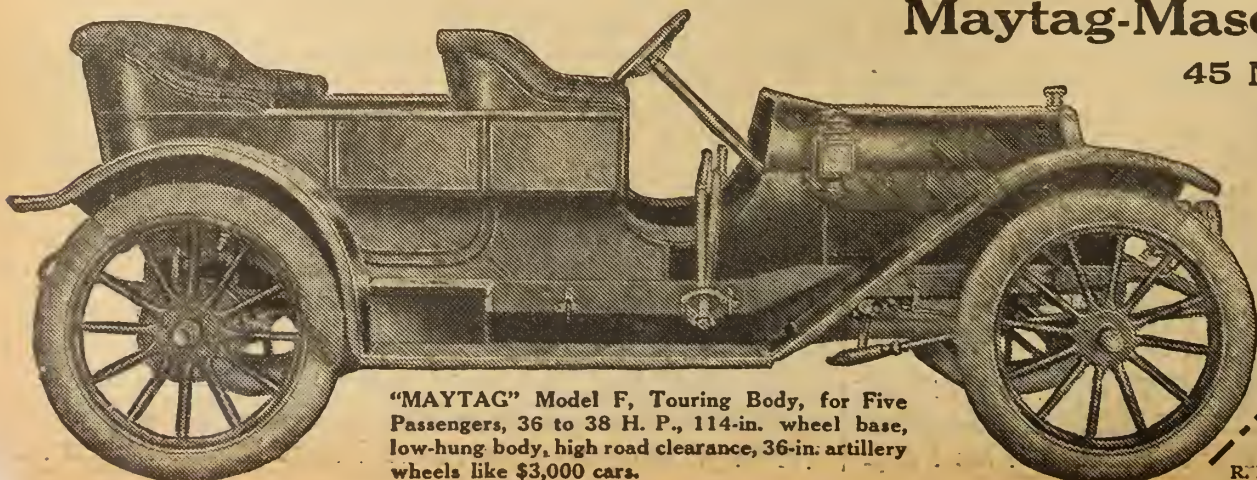
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VOL. LV. NO. 16

DES MOINES, IOWA, APRIL 21, 1910

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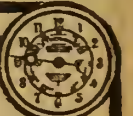
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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, APRIL 21, 1910.

Feeding Cows for Advanced Records

By E. W. Strawbridge

I WANT to begin this subject with raising the calf. I feel so many good calves are lost, and many more perhaps injured, because their owners don't realize the necessity for keeping down the ever-present "germ." We have for many years raised calves with a very good degree of success in the same pens and on an earth floor. We aimed to clean out these stalls about once a week, and to disinfect the floor with formalin or air-slaked lime. I had been talking of putting in cement floors, but had neglected doing so, and this last spring our Nemesis overtook us—the calves were sick, first one, then another, and then nearly all sick, then better, and almost none of them doing well. They did not look like our nice, thrifty calves. At last two fine heifers went the way of all flesh. (They would have paid for the cement floor over and over.) I got a good, sensible veterinarian to come and look at the calves. He observed the little wretches, heard them cough, and promptly pronounced it "verminous bronchitis," or worms in their throats, from overcrowding and being too long in one place. Also he said the very dry, dusty spring helped make it worse. Being a sensible man he gave no medicine, but told me to put them in fresh pasture, to feed them grain in new, loose boxes, and as the rain had come to lay the dust, he thought all would come out well.

We put them in a meadow with running water, and he was right, for now we have a bunch of calves that would do any dairyman's heart good to see. We have put in the cement floors, laid to drain out back, and now with cleaning the stalls each week, and disinfecting them, I don't expect these serious diarrheal troubles. I mention this because I know many farmers have periodic attacks of scours among their calves, losing them in quantities. Then, perhaps for years losing almost none, and then the germs arise again in their midst from the old, foul soil and decimate the herd. Given clean stables, warm, sweet separator milk, sweet grain and good hay, a calf ought to be a thing of beauty, and it should be a joy to watch it grow. We have made in our herd more than forty A. R. records, averaging about 465 pounds of butter fat from the two-year-old heifer up to the mature cow. In these days hearing of the feats of "Missy of the Glen" and "Dolly Dimple," this may seem quite a modest achievement, but it is my proud boast that these records have been made by plain farm men, nearly all under plain farm conditions, and with no other superintendent than myself. That we have the cows in the herd to almost or quite equal some of the biggest records if they were pushed and cared for as these cows have been, I have reason to believe. This, however, I never expect to do. It is my feeling that I am doing the dairymen of the United States more real good by making good records with such care as a farmer ought to give, and which he can duplicate, and by selling the bull calves at such prices as he can afford to pay, than I would by pushing my cows for phenomenal records, and asking almost prohibitive prices for their offspring.

We have many difficulties to contend with that the western farmer knows nothing about. In the first place, our soil is comparatively light. It is also in need of much fertilization, and it is so much of it natural grass land. A cousin of mine in Pennsylvania told me if they let their orchards alone, they would come in in blue grass, but my orchard left to itself would grow up in weeds of as many varieties as Jacob's coat had colors. Consequently we have to fight for all we get in records from our dairy cows. For us there is no easy road, and I know my cows are capable of far more than they have ever done, given the best conditions.

Now, to begin with, the cow that is to make the record. I like to have her dry at least six weeks before the commencement of the record. I am sorry to say we do not always accomplish this feat. Selma of Pinehurst, a cow that has three A. R. records, the last one of 644 pounds of butter fat, does not usually like to cease giving milk, and a diet of water and timothy hay has been resorted to, to induce her to cease her lacteal functions. This I do not like to do, as for best results I want a fat cow, almost like a beef, and then when she freshens, one can almost see

the fat fall off into the pail. Auricula Second, a cow whose average fat test is not high, about 4.57, has under these conditions tested 5 per cent her first month in lactation, when ordinarily she would test about 4.2 at that time. I do not think we can feed fat into milk by any change in grain rations, but we can put it in for a time, at least, out of the cow's own body. I am now speaking of the best way to make records, as I have found it, but we do not always get our cows in this fine condition. We will now suppose we have our cow fresh, in good condition, and ready to begin her year's record.

I have found good, sweet bran, ground in the home mill, and Buffalo gluten mixed in the proportion of about two of the former to one of the latter, to be very good foundation. We have fed bran and gluten in varying proportions to make almost all our records. This winter we are feeding about seventy-five pounds of crushed oats, 100 pounds of gluten, 200 pounds of bran and a little cottonseed as our grain ration. After freshening, we think a warm bran mash a suitable meal to begin with, and when the udder is much caked, ensilage has to be fed very sparingly for some time. We begin with a small amount of grain, hay, and add some ensilage as the cow seems able to bear it. Gradually increasing the grain, watching the cow's appetite, in three weeks she should normally be on full feed, which seldom means with us as much as ten pounds per day. Oftener it is eight pounds, and Betty K. made 509 pounds of butter fat in a year, often eating only four pounds per day, and always in good flesh. We have alfalfa, mixed clover hay and ensilage for roughage. We usually raised the large beets to give the test cows a lunch at noon, but last winter we tried beet pulp for the purpose, moistened and allowed to swell, and a small portion of grain added. This we find very satisfactory, both to the cows and ourselves. As the spring comes on and April opens, the birds begin to sing, the grass to start, and the cows grow restless. I have seen them looking longingly through the gates toward the open fields, lowing, and showing plainly the desire for a change from the winter diet. We can't allow our small area of precious pasture land to be invaded much before May 10th, and unless green food is furnished now, there is a big shrinkage in milk. To meet this need we have fields of rye, sown the fall previous, and about mid-April the cows are wading in green rye up to their knees, eating their fill. The increase in milk is most gratifying, as well as its beautiful golden color. I love this farm picture best of all, the beautiful, sleek, contented cows from the warm stables, no flies to torment them, apple blossoms overhead, and the glorious spring days full of the promise of new life. When the rye is gone, we have some pasture, but our acreage is small, and our drouths of late years have been severe. Soon we are soiling with our faithful friend, alfalfa, to be followed by Canada peas and oats, then cow peas, alfalfa again, fodder corn, and even sowing last year millet and rye for fall pasture. Cabbage serves both for market and feed. The damaged heads and leaves fed after milking are a very valuable fall asset. We are heterodox as to pasture our alfalfa fields a little before winter comes on (though never on empty stomachs), and then in October we begin on our mainstay, ensilage, again.

We try not to let the cows feel the transition from one season to another more than can be helped. You see there is both work and expense in this way of feeding that those who have plenty of natural grass land know nothing about. I greatly prefer blue grass and clover to almost anything else as milk makers, if one can only get enough of them. Our drouth last year was very severe, almost no good rain from May until October, and our pasture fields were indeed brown and dry. We managed our soiling crops so well that the cows came into winter in fine shape, while many dairies were almost starved. Our records were quite creditable, too, though, of course, not near what they should have been in a favorable year. To sum up, I would say, if we want our cows to do good work, first

have a cow in fine flesh and good condition. Second, give her a good rest from producing milk. Third, when fresh, bring her gradually to full feed, taking near three weeks to do it. Fourth, feed an ample, easily-digested grain ration. Fifth, always have an abundance of succulent, palatable food, both winter and summer, so that the cow will have not only enough to maintain herself, but plenty over to put into the pail, and with water always within reach. Sixth, make her happy and comfortable, treat her kindly, and always milk her clean.—(Address before Wisconsin Dairymen's Association.)

BOWMAN REPORTS ON CORN.

Only one-fourth of the seed corn intended for planting in Iowa this spring is fit for use. This is the opinion of Prof. M. L. Bowman, formerly head of the farm crops department of the Iowa State College, as the result of three weeks spent on special seed corn trains run through various parts of the state. Professor Bowman finds the situation serious in the extreme and is of the opinion that unless Iowa farmers test their corn and plant only that seed which tests six kernels perfect to each ear, that the crop this year will fall to the 250,000,000 bushel mark. Professor Bowman writes the following resume of conditions as he finds them in the state:

"I never so fully appreciated the quantity of poor seed corn that was in the hands of the farmers this spring until I had such a splendid opportunity to investigate the matter the past three weeks while in charge of the Seed Corn Special Train running on the C., B. & Q. and the Rock Island lines. I would say that not to exceed one-fourth of the seed corn represented by the tests along these lines is fit for planting.

"Now, I am sure that the seed corn which was secured for these tests was not the poorest in their respective localities. I would be more inclined to believe that it represented some of the very best seed that the farmers had to offer. Of course, you know that we sent men out in advance to secure this seed corn at the different places at which we were to stop, taking six kernels from each ear and getting many different farmers' samples, putting the corn thus secured in germination boxes and leaving them right there for demonstration purposes when the seed corn train arrived.

"In many places the corn went as low as 10, 15 and 20 per cent strong. The best seed that I found along the whole line was that of a young boy by the name of Patton, at Albia, who said that he picked 1,500 ears of corn for his father before the frost came. He made a germination box, holding seventy ears, and had six kernels from each ear represented in that box. What a contrast it was to what we had been finding all along the line. There were only four ears out of the seventy on which the sprouts did not come strong and vigorous, while all the other corn from that locality, but corn picked after the frost, germinated less than 20 per cent strong.

"There never was a time in the history of this state when the seed corn was in such a serious condition as it is this spring. Every farmer should ask himself this question, 'Do I know beyond a question of a doubt that the corn I have for seed is all of strong, vigorous germinating quality?' and in that connection I might say that if it were picked after the frost he can be very sure that not more than one-fourth of it is fit to plant at the very most.

"I firmly believe that if farmers would see to it that they got out into their fields the latter part of September, picked their corn before the frost, hung it up where it would thoroughly dry out before the cold, freezing weather came on, that we would grow half again as much corn in the state of Iowa, even though we did not test our seed. The great trouble is, too many times the corn is thoroughly frozen before it is picked for seed, and then, instead of testing it before planting it in the ground, eighty and 100-acre fields are used for germination boxes.

"Any farmer who picked his corn after a frost this year should ask himself this question, 'What sort of a germination box am I going to use this year?' and when he stops for a minute to consider what a serious propo-

(Continued on page 6.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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THE HOMESTEAD COMPANY,
Des Moines, Iowa.

MANAGING STOCK ON CLOVER PASTURES.

Every man understands the superior feeding value of clover, either in the form of pasture or hay, to the ordinary members of the grass family. Clover is rich in protein and in itself forms practically a balanced ration. Because of this fact alone, we ought to have a great deal more clover in our pastures than we have at the present time. Nine farmers out of ten make a mistake when they sow timothy and clover together, by using too much timothy seed. The common practice is to sow two quarts of clover seed and four quarts of timothy seed, while as a matter of fact the order ought to be reversed and at least four quarts of clover seed should be used per acre. The land needs the mixture rich in clover and our live stock need it. It is true there is a little danger sometimes connected with pasturing clover, but it is very slight if sensibly handled.

We are in receipt of a communication from one of our subscribers, Mr. W. H. Underwood, who has this to say concerning a sensible way to pasture clover:

Making temporary pasture of a clover field, particularly of the common red or medium variety, is often a difficult procedure. The primal object of growing clover is restoration of soil fertility, and anything that retards or weakens those plants must affect beneficial results in our farming operations. During the first stages of the plants' growth, or when the ground is wet and spongy, undue trampling of the meadow by stock should always be avoided. No kind of live stock should be allowed upon the meadow during the first year of the clover's growth. Injury to the young plants, even by swine and sheep, is serious.

The meadow should be at least fifteen months old before rating it as available pasture. This means that the ground must be firm and well settled from spring freezes and thaws. Then just enough live stock should be admitted to keep the meadow grazed up to a certain point that will prevent that kind of plant waste, when growth to maturity, and even beyond, progresses more rapidly than does animal consumption. Clover is more nutritious if grazed to the point of constant removal of the succulent upper growth, just at the period of maturity, thus inducing a thrifty start of newer and more numerous stems and leaves. But beware of that kind of grazing where so much of the stem has been eaten away as to take most of the leaves with it, thus impairing the plants' power to breathe.

If the herd is not large enough to check this vigorous growth of clover, run a temporary fence through the meadow, thus restricting the grazing ground to desired proportions, and reserve the remainder of the meadow for the mower. Such a fence is easy of construction. Cut stakes three by four inches in size and five feet long. Put these stakes twelve feet apart across the meadow, well driven in with a sledge hammer, just where the division is to be, being careful that the portion for grazing shall be in convenient lead to the permanent pasture, or wherever the indispensable water supply is located. To these stakes staple twenty-six-inch woven wire fencing material, with two strands of barbed wire at top. Such a fence will keep any kind of stock within bounds. When the time comes to cultivate the entire meadow, the fence can be easily taken up and stored for future use.

The value of clover pasture ranks high. Perhaps best results are obtained in swine and sheep grazing, and for steer feeding it offers more than half the ration during the summer season. For swine, fed in connection with corn, the ration may be pronounced fully balanced. A portion of the pas-

ture should be reserved for the exclusive use of the pigs and young shoats, as it is a most excellent bone builder.

Of course, the season has passed when there is danger from tramping this year. From the standpoint of yield of clover, it is not advisable to pasture closely as suggested by Mr. Underwood, but on the other hand, where valuable stock is pastured, we rather take to the idea of keeping it pretty well down. This is particularly true if the meadow is almost pure clover. We have in mind the owner of a herd of pure-bred cattle who grows a great deal of clover, and yet has the record of never having lost an animal from bloating. His practice is to turn his cattle out first thing in the spring, and he keeps them right on the clover ground without ever taking them off.

In the case of a crop that had been seeded the year before, there is always the fall growth which makes satisfactory roughage, and which the cattle eat to a considerable extent when the plants are small. Where there is a mixture of clover and timothy, there is practically no danger of bloating only when animals are first turned in, and in that case, a larger amount of feed will be obtained from a given area by allowing it to make considerable growth before using it for pasture.

WHAT WILL THE STAND OF CORN BE?

The last word has almost been said on the subject of seed corn for the present season. Testers are no doubt still in operation, but the problem for this year is almost solved one way or the other and it only remains now to see what the stand will be. The various methods used to solve the problem have been dwelt on time and again by this paper and a few of these are now discussed by a Nebraska subscriber, Mr. U. S. Cornwell, who says:

The 1909 corn crop will long be remembered by the farmers in the corn belt, principally on account of its low germinating test, as well as the unfavorable conditions under which the crop was gathered. But has it ever occurred to us what the 1910 crop will be in regard to stand and quality? That the 1910 crop will be a poor stand there is no doubt, not alone on account of the poor seed from the 1909 crop, but because farmers are sending in almost all directions for their seed. Some are going to plant 1909 corn, some 1908 corn, and some are going to send to seed houses for their supply. I know of some 1908 corn which was bought for seed, that has failed to germinate up to expectations. And you don't always get good seed from the seed houses. Of these three methods of getting seed, we would rather risk the 1909 corn, for our experience has taught us that corn taken any great distance in the corn belt does not do as well until it gets acclimated. What we consider the worst method of the three is to go to a farmer who has 1908 corn, and scoop it up regardless of the fact that the rodents and the weather have made it worse than the 1909 corn raised from this seed. Do you think this corn as good for seed as it was last spring? We think not; we have been testing 1909 corn since February and we know now that we can get about a 90 per cent stand. Others could do the same, but there was so much in the papers, and bankers and elevator owners became so interested in the subject of testing seed corn that farmers were fairly taken by storm and many of them, instead of looking for good seed among their own supply, looked to outside sources and I think they will regret it later on.

We are frank to admit that a great mistake can be made in sending away too far for seed, but supposing there isn't any good seed in one's own community, what then? Surely the seed houses must be looked to. Then, taking the matter one step farther, supposing the seed companies are not able to find good corn in their community, what must they do? They must get it from whatever source it is obtainable, and this, of course, means that there will be more unacclimated corn in the central West this year than has been the case in the past quarter century. To those who have been obliged to send south for seed, early planting should be adopted. If it is possible to gain a week or ten days in the fore part of the season, let this be taken advantage of if possible, otherwise we will have soft corn next fall.

We know from our own experience that corn out of the crib that looks to be in the very best of condition is in some instances wholly unfit for seed, and because of this fact there are a great many farmers who are going to

be given the lesson of their lives this year. We refer to those who believe that they can tell whether corn is vital or not by its appearance. Many a man has picked out his seed in that way this year, and some, we apprehend, have a bitter experience ahead of them. We have purposely selected out a few ears that were found by testing to be absolutely worthless, and have had them commented on by dozens of farmers who pronounced them vital, and yet as a result of accurate tests, we knew absolutely that this seed had no vitality whatever. A year like this makes it necessary to do what is expedient, and we criticize no man for the measures he adopts in his effort to get good corn. The one great error of all, which amounts to a stupendous blunder, is to plant seed this year that has not been tested.

THE FARMER'S ADVANTAGE.

If any further proof were necessary that the average farmer is better off from a financial and economic standpoint than the average city man it is to be found in the report just issued by the New York Committee on Congestion of Population. According to this report, 450,000 wage earners in the city of New York are receiving wages below the minimum on which it is possible to support their families in decency. This minimum of decency is set at \$800 a year, which is an increase of about \$100 over the minimum set by the statistics a year ago, the excessive cost of actual living necessities being responsible for the limit being raised.

The committee finds that the average of 340,000 workers in Manhattan and the Bronx is \$543 a year and of 103,000 in Brooklyn is only \$519. It will thus be seen that almost a half million people in this one city alone are receiving between \$200 and \$300 a year less than the committee, after careful investigation, finds is absolutely necessary to maintain body and soul. This finding verifies the declaration of a financial and economic authority that only thirty days stand between the average city man and the bread-line. That is were the average city worker in the city to be thrown out of employment and were no other employment to be secured, he would within one month's time be dependent upon charity for sustenance.

OIL MEAL FOR THE WORK HORSE.

As the result of investigations extending over a period of two years, the Iowa Experiment Station has found that with corn at fifty cents and oats at forty cents a bushel, the cost of the work horse's ration may be lowered by cutting out the oats and substituting oil meal. By feeding a ration composed of one pound of oil meal to fifteen pounds of corn, it lessened the cost of a horse's ration practically one and one-half cents per day, as compared with feeding a ration composed of half corn and half oats, the former being worth fifty cents and the latter forty cents a bushel.

That station found that horses fed corn and oil meal maintained just as high a state of perfect health as those fed corn and oats, while no difference was observed in their spirit or their endurance. An attempt was made to enrich the ration in oil meal by increasing the proportion to one part in ten, but this was found to be an impracticable ration, being too laxative in its effect.

It is rather to be regretted that this experiment did not include a straight corn ration, because the Ohio Experiment Station in a bulletin published some time ago gave results which indicated that a straight corn ration makes just as good a food for the work horse as one composed entirely of oats. So far we have taken the result of that experiment with some allowance, for the simple reason that ordinary experiment station work is by no means as strenuous as the labor that horses are put to on the average farm. We admit that at moderate work it might be possible to hold horses at a given weight on corn and hay, but to say that the horse that

leads the strenuous life will endure as much on a pure corn ration as he will on one composed of oats and corn or pure oats is to contradict what common sense has been teaching us for a century.

THE SAFE SIDE OF THE HOG BUSINESS.

There is only one way to raise hogs and to make money at the business, and that is by staying in it year in and year out. The man who raises just about the same number every year and who never gets discouraged no matter how high in price feeds may be or how low pork may be, is the individual who usually stands well financially in his community. This subject is brought up at this time by an Illinois subscriber, who has been in the hog business for a period of twenty-six years without having had any loss from cholera during that time. He says:

No investment connected with the farm pays a higher dividend than hogs. Usually the small farmer feels that he cannot afford to raise hogs, when really he cannot afford to not raise them.

A great deal depends on the management. One can grow into this business with very little capital if he is on the alert to make good use of his opportunities. First, and most important of all, is good foundation stock. Two or three well-selected, pure-bred sows is all he needs. Then breed these to a pure-bred boar. If the sows are given judicious care and attention the results will be remarkably pleasing.

What items I offer here are garnered from experience, hence they are practical. My success in hog raising has been very gratifying. In working with hogs for more than twenty-six years I have never lost one from cholera and very few from any cause. In the first place, to follow this business successfully, we find an opportunity to verify the adage, "An ounce of prevention is better than a pound of cure." Keep off disease rather than try to cure it. If this is done there is very little danger of loss. I begin to ward off disease when the pigs are little. Never allow the sows to become lousy; keep them thrifty and healthy and the pigs will be strong and vigorous, not so susceptible to disease.

In addition to their regular feed of corn, peas or whatever they get at the barn, I give my hogs swill twice each day. I keep a barrel in the back yard (a coal oil barrel is best) into which I throw a handful of copperas twice a month, also put a gallon of salt and three or four buckets of wheat bran in to start it; into this throw all the vegetable waste, fruit peelings, milk and slop from the kitchen. Very soon the barrel is full of rich food, all clean and healthy, although made up of almost every conceivable thing a hog could eat.

At morning and evening I give them from six to eight buckets of this mixture, according to the number of hogs in the drove, always stirring well before giving. By night the barrel will be full again and always ready. I clean out the barrel each time before being filled, and never allow the mixture to stand long before being fed. Cleanliness at all times and in all things is a feature that cannot be too strongly emphasized.

Now and then I gather the old bones and discarded scraps of meat from the smokehouse and fill a large wash kettle with pork stalks and leaves, chopped fine, and cook with bones. Keep the kettle as full as it will boil. When thoroughly soft and done, dip all into the barrel, throw in more bran and feed as usual. This I know to be a preventive of cholera, and even should there be symptoms already manifest, it will relieve it.

Never allow hogs to run at large where they will be subjected to danger, but keep them in pasture, and no matter how fine the pasture may be, don't fail to call them up each evening for their swill; they will always relish it. Use a good deal of pitch about the troughs, smear it on the bottom, and let them eat and drink it off; they soon grow to like it. For a can for the purpose, in which to mix a mixture of tar, sulphur, lard and coal oil. While they are drinking at the trough, smear them on the hips, back and around the ears with this mixture; it will keep vermin away. Burn all the beds occasionally and place new straw in, and each time sprinkle a good coat of lime under the straw. All these precautions take time and make work, but it takes less time and is less expensive than to try to treat sick hogs.

If the animals are fed and cared for as above indicated they will bring a very large per cent of profit on the investment of time and money. In times like these the farmer without hogs is a back number.

After all, the little things are the important things in raising hogs. The man who will not pay attention to the smallest details is the one who is going to be caught off his guard and first thing he knows, he has a contagious disease on his hands and after that the end of the chapter is soon reached for that year. The advice given by this subscriber is sound in every way, and we commend it to our readers.

CROP RANK OF STATES.

The statement is frequently made that Iowa corn fields are far more profitable than Alaska gold fields, and now the additional statement is made that the adjoining states of Iowa and Illinois have live stock which is worth more than the total annual iron output of the entire United States or the total combined annual output of both hard and soft coal. According to estimates made by the department of agriculture, Iowa leads the nation as a live-stock state, with Illinois a close second. Iowa has \$392,381,000 worth of horses, milk cows, cattle, swine, sheep and mules; Illinois has \$375,421,000; Texas is third with a total of \$338,780,000. These three states are the only ones whose totals pass the \$300,000,000 mark. A summary of the estimates of the department is of considerable interest and is given herewith, as follows:

Illinois farm crop of 1909 amounted to \$337,086,000, and, added to its live stock, the total is \$712,507,000. Iowa, the second crop state, raised \$244,856,000 worth in 1909, which, added to its live stock, makes a total of \$637,237,000.

Iowa is first in swine, second in horses, cattle and milk cows, and is seventeenth in sheep, and eighteenth in mules. Illinois is first in horses, without any near competitor; fifth in cattle, fourth in milk cows, a poor second to Iowa in swine, twelfth in mules, and fourteenth in sheep.

Texas is first in cattle, first in mules, ninth in milk cows, seventh in swine and eleventh in sheep.

The total value of all the live stock in the country is \$5,138,486,000, of which these three states have more than one-fifth. Iowa has more swine than all of Canada, Great Britain, Ireland and Cuba combined. Texas has almost as many cattle as Canada. Illinois has as many horses as all Australia. The 21,040,000 horses in the country are valued at \$2,276,363,000 and Illinois has nearly 10 per cent of this amount. The total value of the 47,279,000 cattle in the country is \$917,453,000, of which Texas has about 11 per cent. The total value of all the 47,782,000 hogs in the country is \$436,603,000, of which Iowa has nearly 17 per cent. The 4,123,000 mules are worth \$494,095,000, of which Texas has about 15 per cent.

New York has more milk cows than any other state, with \$69,954,000 worth. Iowa is second, but Wisconsin is close to Iowa, having \$55,120,000.

Wyoming is the first sheep state, having \$32,190,000 worth. Montana is second with \$24,137,000 and Idaho is third with \$19,966,000. Ohio is fourth with \$15,374,000.

The 21,040,000 horses in the country have an average value of \$108.19, an increase since 1909 of 1,000,000 head and \$12 in value. The highest-priced horses are in New Jersey, where the average is \$134, while the cheapest horses are in New Mexico, where they are valued at \$47 each.

There are 47,279,000 head of cattle of an average value of \$19.41 each, a decrease in number since 1909 of 2,100,000 head and an increase in price of \$0.92. Cattle are most valuable in Montana, where they average \$27.40, and cheapest in Mississippi at \$8.40 each.

The milk cows number 21,801,000 of an average value of \$35.79, an increase since 1909 of 81,000 head and of \$3.43 in value. Cows cost the most in New Jersey, where they average \$47.50, and the least in Arkansas, where they are \$22 a head.

The 47,782,000 swine in the country are 6,365,000 fewer than in 1909, but they are worth \$2.59 a head more—the aggregate increase being more than \$80,000,000. Hogs are most valuable in New Jersey and Connecticut, where they average \$12.50 a head, and least valuable in Arkansas at \$4.80.

Our 57,216,000 sheep average \$4.08 each; this is an increase since last year of 1,132,000 in number and 65 cents a head. Iowa and Illinois have the most valuable sheep, where they average \$5.30, while the cheapest are in Mississippi and Louisiana at \$1.90.

The 4,123,000 mules are worth \$119.84 each, or \$12 more than last year, when there were 70,000 fewer head. Mules cost the most in South Carolina, where they are valued at \$157 each, while in Nevada and New Mexico they are worth only \$79 each.

Eighteen states have live-stock interests that exceed \$100,000,000 in value, and another state (Tennessee) nearly approaches that mark. These nineteen states have 75 per cent of the total live stock of the country. The leading live-stock states are as follows: Iowa, \$392,381,000; Illinois, \$375,421,000; Texas, \$338,780,000; Missouri, \$271,222,000; Kansas, \$270,057,000; Nebraska, \$255,709,000; Ohio, \$232,797,000; Indiana, \$200,495,000; New York, \$189,716,000; Wisconsin, \$178,507,000; Michigan, \$171,464,000; Pennsylvania, \$164,191,000; Minnesota, \$154,300,000; Oklahoma, \$138,172,000; South Dakota, \$128,200,000; North Dakota, \$107,959,000; California, \$106,356,000; Kentucky, \$104,244,000; Tennessee, \$97,950,000.

One-third of all the hogs in the world are in the United States and

more than half the mules. This country has about one-tenth of the world's supply of sheep, being passed in total number by Australia with 88,000,000 head and Argentina with 67,000,000. We have one-sixth of the world's supply of all kinds of milk, beef and work cattle, with a total of about 70,000,000. British India has 91,000,000, in which are counted some 15,000,000 buffaloes. Russia is the third cattle country, with 36,000,000 head; Argentina and Brazil are fourth and fifth with about 30,000,000 each.

WOMAN'S LIFE ON THE FARM.

Speaking before the recent Minnesota Conservation Congress, Mrs. Agnes Whitney Savage discussing "The Advantages of Farm Life to a Woman" raised the interesting point that life on the farm more satisfactorily and more fully rounds out a woman's life and character than does life in the city. There is a completeness and a variety about farm life which brings out the better and higher qualities and allows a woman to diversify her interests and talents and which is lacking in city life. The city housewife is, in the majority of cases, simply a housekeeper with few interests aside from her social pleasures, which are all too often of a routine and conventional nature. The farm wife, on the other hand, finds herself a co-partner with her husband, not only in the big and little details of everyday life, but in the business management.

Mrs. Savage cites her own experience as an example. She was reared a city girl but married a man who owned a farm and moved out to her new home, resolved to be a real helper. She followed her husband into the fields and drove the sulky plow. "I assure you it was not a fad with me," said Mrs. Savage. "I did it to help him and to make a living. I grew to love the work, loved to watch the plow as it turned up the earth and prepared it for the rich harvest. One feels like a creator to be instrumental in bringing about such a result."

Mrs. Savage did not intend, however, to argue that farm women should go out into the fields and perform actual manual labor. She argued that there are enough interests in the house to utilize the various talents of the woman and to keep herself from becoming too narrow and restricted in mental vision. She not only believes in women helping the men, but in the men helping the women. It was not long before she discovered that her husband was an excellent cook. She immediately gave him every opportunity to display his talents in this line. Speaking of the advantages of the farm over any other kind of a home, Mrs. Savage said in her address:

It is a little world in which you do all sorts of things in an infinite variety of ways, calling for the exercise of every faculty, and so rounds out and develops the character. For instance, I always made my own dresses and all the clothes for my children. This calls into requisition the creative or inventive faculty to plan the garment, next the executive ability necessary to its construction, involving the training of the eye and hand, and the artistic sense for color and outline. Women on the farm find it more necessary to do their own work than those in the city, who have every opportunity to hire someone else to do it for them, and as a result, the farmer's wife has to depend upon her own resources to a great extent and learns to be ingenious of necessity.

Then there is the buttermaking. I thoroughly enjoyed this feature of my work. Although I am a progressive woman in most respects, I never have and never will make butter except in the good old way. I love the simple, old-fashioned methods of doing the work. Their very simplicity is beautiful.

There is a dignity and sense of power which comes from ownership of a farm which in itself compensates for much in the loss of any amusements of the city. Women on a farm are not hampered by conventionality as are their sisters in the city. We do not need to fear "what the social world will say" if we do this or that.

The address makes interesting reading offsetting the frequent magazine articles published of late dealing with the so-called plight of the farmer's wife. There is a considerable class of magazine writers grinding out copy by the ream who are spilling considerable ink in setting forth what they are pleased to call

the hardships of life in the farm home. Mrs. Savage knows whereof she speaks and her testimony is directly opposite to that of the magazine writers who probably have had little or no experience on the subject.

WHEN TO FINISH FALL PIGS.

A subscriber from Jamesport, Mo., sends the following communication:

I have fall pigs that now weigh about 100 pounds each, and I would like to know whether you would consider it advisable to force these shoats and get them ready for market, say in June, or would it be better to let them run over the pasture and finish them up in August or September? Corn is worth from sixty to sixty-five cents a bushel. There is plenty of blue-grass pasture and after oat harvest my hogs could have a run of the oat fields that have been seeded down to clover.

With these hogs weighing 100 pounds now, they cannot possibly be properly finished up for the June market. If an attempt were made to do so it would necessitate finishing them entirely on grain, while the adoption of the other method, namely, finishing them in August or September, a great deal of the increase could be made on blue grass and clover. From the standpoint of a pound of gain, we have no hesitation in saying that a given weight can be put on much more cheaply when blue grass and clover are freely used.

THE CORN-ROOT APHIS.

The Iowa Experiment Station considers the corn-root aphis a serious pest; so serious indeed, that a bulletin has recently been published giving in detail the habits of this insect, and outlining practical measures for lessening its injurious effect. The corn-root aphis is nothing more nor less than a louse which lives on the juice of the corn plant. It is found in fields where corn has been planted on the same ground for more than two years in succession, and it seldom gives any trouble where crops are properly rotated. The lice live in a sort of co-operative way with the little brown ant. In the fall the ants take the eggs of the root aphis down into their nests and keep them there throughout the winter. The next spring, when the eggs hatch, the ants place the young root lice on the roots of the common smartweed, or some other common weed, where the lice begin to feed. Later on, if the ground be planted to corn, the ants transfer the root lice from the weeds to the corn roots.

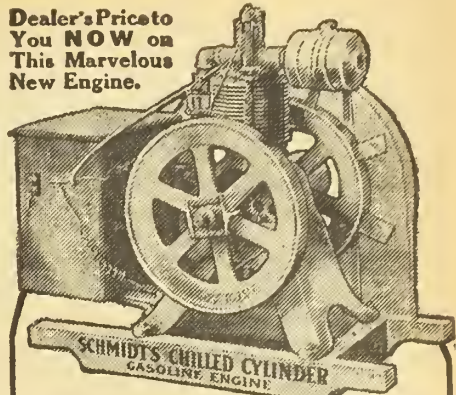
So the ants care for the root aphis, and in order to fight the root aphis the farmer must fight the little brown ant.

While the corn-root aphis feeds, to some extent, on other plants than corn, yet a change to any other crop is about the most effectual measure that one can take against this insect. Where a system of crop rotation is carried out, involving but one or two consecutive crops of corn, little injury ever occurs. What other crop is grown on infested land makes little difference; corn is by far the favorite food of the root aphis. This same treatment is also effective against the corn-root worm, which is even a more serious pest than the root aphis.

While rotation is by far the best treatment for the corn-root louse it is sometimes not practicable to rotate. In that case much may be done by cultivation. If it is possible, however, rotation should be practiced.

Experimenters in Illinois, made under the direction of Dr. S. A. Forbes, state entomologist, have shown that a deep, thorough stirring of the soil on old corn ground will tend to reduce injury caused by the root aphis. This stirring of the soil breaks up the nests and scatters the ants. Consequently the ants cannot give the root lice the proper care. According to Dr. Forbes the burrows of these ants do not often reach to a depth of more than six inches, and if plowing to this depth is followed by a deep stirring of the ground with a disk harrow, the attempts of the ants to recover their property and to reconstruct their nests are greatly disturbed and rendered largely fruitless. The more thoroughly, frequently, and deeply the ground is stirred in the interval between the first plowing and the corn planting, the fewer will be the root

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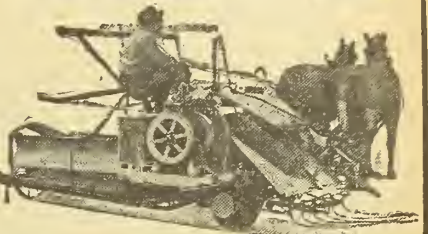


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lice in the field—the beginning of the season. Fortunately the labor of this treatment of the field will usually be more than repaid by an improvement of the corn crop independent of all protection against aphis injury, this being practically the preparation for corn especially recommended by our best teachers of high-grade agriculture and practiced by some of our most successful farmers.

It is proposed in Missouri to teach convicts farming. Some of them are already pretty well qualified, as the Jacksonville Courier thus points out: "They have had experiences with fences, while others are rakes and still others have had harrowing experiences with corn products which at the time they regarded as good as old wheat. And as regards sowing wild oats they can't be beat. They know lots about bulls and bum steers and lots of things pertaining to successful and unsuccessful agriculture."

FARM FURROWS

Turned By a Practical Farmer

The harder some men work the less they make. This is usually because the harder they work the less they plan.

Out where the grasshoppers cleaned up everything in the '70's, and then never came back, they tell me the banks have so much money that a man coming in to borrow looks better to the banker than the man who comes in to deposit a few hundred. It does beat all how common money is getting.

Something is wrong when anything, brute or human, is overworked about the farm. On some farms it is the good wife who carries the big load. Cooking and washing for hired men and caring for a good-sized brood of children is a greater task than many of the men folks are called upon to negotiate.

I shoot every robber of a crow I can get sight of. Every few days some of the black rascals make an attempt at chicken stealing, and sometimes they get lead instead. No need of trying to convince a man that crows do more good than harm, who has seen the robbers pick up and carry off newly hatched chickens.

An easy way to get rid of some men is to tell them you don't want to buy anything. They're friendly to you only for the purpose of selling you something.

I have a neighbor who is so anxious to get so much done during the week that he leaves a dozen and one jobs to do on Sunday. The range of these is from hauling feed to taking home borrowed tools. Putting off chores until Sunday is a bad habit to get into, but a natural one during the busy season. However, Sunday is for another purpose.

In dry weather it looks like rain every day, but when it does rain, it comes when least expected. That is also the way with financial storms.

Never stopping the team on a sultry afternoon is a quick way of subtracting the sum of \$25 from the price of a \$200 horse. A few such mistakes cut down horse value fearfully.

There is no question but what a great deal of land will grow poor corn this year, when it should grow good clover. Then, next year, it would grow good corn.

A neighbor of mine calls anything that can be sold at the elevator money crops. I have been watching his farming for some years, and when I rode by his farm the other evening, I was sure the fact could be noticed that it has been his farm as much as his crops that he has been selling at the elevators. And he has been selling his farm at too low a figure, too.

It will soon be time for the new and rejuvenated lightning-rod agent. Lightning rods, with the swindle left off, are all right.

No more "sudden saw logs" for me, a term which has been applied to the cottonwood tree. Land is too valuable to use growing the cottonwood, a tree which draws moisture from a dozen rows of corn, if a row of them happen to be growing in the line fence. The catalpa is almost as "sudden," and much more valuable.

A man doesn't really become expert with an auto until he can kick three things in just the right direction with two feet, doing it all at once, at the same time handling two levers and the steering wheel with his hands. This "auto" makes a politician out of a man, since many politicians are capable of shifting gears as often as it seems necessary to secure another bunch of votes.

There should be two open ditches along every highway, and they should be as straight as possible. They should be a reasonable distance either

side of a high place in the center, which should be of sufficient width for public travel. This is a simple thing we often find it very difficult to obtain.

After a man has served two terms in a county office, he is seldom any good for the farm again. Why some men will work harder to get away from a paying farm into a profitless office, than the work on the farm amounts to, is more than I can understand.

"I have my corn planted." That is a statement that stirs one to a feeling of certain pride, but it can be followed up with true pride if that corn is planted on well-prepared land. In the fall, it is with a feeling of real relief that a person says, "My corn is all cribbed."

The farmer is more of a practical co-operator than he used to be. The Farmers' Alliance, before it grew into politics, was a co-operative movement, but politics knocked out all that spirit in double-quick time. However, before it failed in our school district, considerable stuff had been bought in co-operation. I think it pays to buy in quantities. There is a great deal of difference, for instance, in ten cents each or three for a quarter.

It would seem that someone is anxious to change the nationality of oleo by having it hereafter called margarine. Most of the oleo with which we have been acquainted did not need to be called; it came anyway.

A week ago I rode about four miles with a man. We soon fell into conversation and I believe that he swore every rod of the way and never once repeated himself.

The United States Postal Department has issued circulars asking all patrons of the rural delivery to paint their mail boxes and the post supporting them a pure white color. This will give all boxes a uniform color and serve to fix their identity in all parts of the country.

Of a certain list of 1,000 successful men chosen without respect to their origin, 300 were found to have been farmers' sons, 200 messenger boys. 200 more had been newsboys, 100 were printers' apprentices, 100 were factory apprentices, fifty began at the bottom of railway work, and but fifty had wealthy parents to give them a start.

A preparation made from skimmed milk, according to its originator, is going to revolutionize many industries. Here are just a few of the things claimed for the new milk product: Railroad ties treated with it become imperishable, eggs dipped in it keep perfectly, evaporated and compressed, it becomes an artificial ivory which simply defies detection.

There will be a very small percentage of farmers this spring who will plant seed corn that will germinate 100 per cent. I know a number of men who have adopted this plan: They have tested out their corn, using six kernels from each ear. All the corn that shows perfect germination test is to be planted early in the season, while those ears where only four or five kernels grow out of the six, are to be used for seed later on. The idea is to wait until ground is warm for the weaker seed.

If there is one thing that should be prized more than another in a home where boys and girls are growing up, it is good music. I think money spent for instruction along musical lines is a real investment.

A pure-bred Short-horn recently sold for the handsome sum of \$10,000. This seems an enormous sum and yet one can imagine the buyer making a profit on his investment when you consider

the improvement that such an animal can make in a herd that is already high class.

It seems that the groundhog had some advance information about an early spring, after all.

The March winds were with us, but the first half of April did not bring many April showers. The rainy seasons of the past few years have made the farmers a little slow about wishing for rain, but as it is now a little shower now and then would be relished by the best of men.

A month of dry weather has made our roads very hard and dry, but they are rough in places where no King drag has been used. A very good time to use a King drag on the roads is when they are beginning to dry, but the very best time is "now."

Seeding, in this vicinity, will be finished this year by the time a poor start could be made last year, and the fields have been in almost perfect condition for getting good work done. Just what the winds and weather will do to the crops later is, of course, impossible to say, but no one but the very worst growler can make any complaint yet.

A great deal has been said and written about seed corn since last fall, and now one of the newspapers relieves itself in this way: "If the stand of corn is poor this spring, the farmer will have no one to blame but himself." This is really too bad. We had intended to lay the blame on the editors again.

No reasonable person will doubt that printers' ink and talk have aroused an interest in corn culture that will lead to increased yields of corn in the future, but other grains should also receive more attention. Imperfect seed and a poorly-prepared seed bed will cut down the yield in other grains, as well as in corn, but it is not as easily noticed in growing grain.

At present the grain gamblers are betting good money. The weather, a continued dry spell in certain sections, takes the pot for one set, while a good rain makes four aces in the hands of the others. It must be an interesting game to those who have money to burn.

Why is it that many of those who complain about the high cost of living never say a word about the cost of high living?

An automobile owner told me that it costs as much per hour to run at the rate of ten miles an hour as it does to run at the rate of thirty miles an hour. This may be true, but it is a poor excuse for reckless driving.

GROUND OATS AND BARLEY FOR SOWS.

The following communication has been received from a subscriber at Red Oak, Iowa:

I have been raising barley and oats mixed, and grinding them for slop for my sows and later for pigs. I have also used shorts at times and am not satisfied with the way the sows or pigs take to the barley and oats. They will not eat as much of it as they ought to. Do you think it is the hulls on the barley, or is it the flavor of the barley which they do not like?

Sows that have been accustomed to corn do not always take kindly to ground barley or ground oats or a mixture of the two. Neither of these grains is so palatable as corn, and because of this fact, where they are used a little ingenuity may be required in order to get the sows to consume enough. We would suggest that the oats and barley be mixed with a small quantity of oil meal, say one part of oil meal to twelve or fifteen of the mixture, then soak for a period of twelve hours, and we venture to say that there will be no holding back at mealtime. There is something about oil meal that adds immensely to the palatability of any ration with which it is mixed, especially if allowed to soak for a few hours. Some men use a little oil meal because of its effect in making the slop a little easier to handle. A small amount of it will almost make feeding utensils, such as buckets and pails, "scour," whereas shorts and other meals are often a little hard to han-

dle unless they are mixed with enough water so that the slop is actually too thin. Until little pigs are eight or ten weeks old it will always pay to exercise the greatest pains in order to make all foods that are used for the sows as palatable as possible, and a little increase in the cost of the ration will be more than met in the greater gains made by the little pigs when a palatable ration is fed to the sows.

BOWMAN REPORTS ON CORN.

(Continued from page 3.)

sition it is to plant poor seed, how twelve ears of corn plant an acre, how every poor seed ear of corn he uses costs him from \$2 to \$2.50, it seems to me that the farmer should fairly shudder at the thought of using an eighty to 100-acre field for a germination box.

The railroads have certainly done a great deal of good by calling this matter to the attention of the farmers, for it has helped many to fully appreciate the very serious condition of our seed corn.

I wish that this matter could be thoroughly impressed upon every farmer in the state, for surely only by the use of strong, vigorous seed corn can we hope to produce anything like the yield per acre that this good Iowa soil is capable of yielding.

As Professor Bowman states, the railroads are entitled to much credit for taking the initiative and furnishing special trains free of charge, from which Professor Bowman and his assistants preached the gospel of seed corn testing. The railroads will profit indirectly in the fall. An increased crop will mean larger stock shipments and larger grain shipments. It is a considerable investment, however, and it is to be hoped that the farmers who have heard the seed corn lectures and who have read the advice given will meet the railroads and the college professors at least half way and practice what they have heard preached. The situation is more serious, not only in Iowa, but throughout the entire corn belt this spring, than it has been for years. The work required is small compared with the money and crop at stake.

A Kansas man died of heart failure while loading a car of hogs for market. The prospect of getting a million dollars would affect almost anyone's heart action.

MISCHIEF MAKER. A Surprise in Brooklyn.

An adult's food that can save a baby, proves itself to be nourishing and easily digested and good for big and little folks. A Brooklyn man says:

"When baby was about eleven months old he began to grow thin and pale. This was, at first, attributed to the heat and the fact that his teeth were coming, but, in reality, the poor little thing was starving, his mother's milk not being sufficient nourishment.

"One day after he had cried bitterly for an hour, I suggested that my wife try him on Grape-Nuts. She soaked two teaspoonfuls in a saucer with a little sugar and warm milk. This baby ate so ravenously that she fixed a second which he likewise finished.

"It was not many days before he forgot all about being nursed, and has since lived almost exclusively on Grape-Nuts. Today the boy is strong and robust, and as cute a mischief-maker as a thirteen-months-old baby is expected to be.

"We have put before him other foods, but he will have none of them, evidently preferring to stick to that which did him so much good—his old friend, Grape-Nuts.

"Use this letter any way you wish, for my wife and I can never praise Grape-Nuts enough after the brightness it has brought to our household."

Grape-Nuts is not made for a baby food, but experience with thousands of babies shows it to be among the best, if not entirely the best in use. Being a scientific preparation of Nature's grains, it is equally effective as a body and brain builder for grown-ups.

Read the little book, "The Road to Wellville," in packages. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

CURRENT EVENTS

THAT Doctor Cook not only failed to reach the north pole, but also failed to ascend Mt. McKinley is now practically an assured fact. A party of ten experienced Alaska miners and guides, which left Fairbanks in December, has returned and announces that it made the ascent of Mt. McKinley and failed to find the slightest vestige of Cook's camps or data which he claims that any subsequent exploring party would find. The Alaska party also reports that it attempted to make the ascent following the alleged route of Doctor Cook, only to find this route utterly impassable. It will be recalled that Doctor Cook claims to have ascended Mt. McKinley, the highest mountain peak in North America, and which prior to his alleged ascent had never been conquered by man. He published an extensive and expensive work dealing with the journey. It was the reputation based on this alleged ascent which made his north pole story more generally accepted by the rank and file of the people. Following the verdict of the University of Copenhagen that his north pole records were absolutely valueless, doubt arose as to his McKinley ascent. The Alaska party seems to have conclusively proved that the faker in one man was the faker in the other. The Alaska party claims to have planted a flag at the summit of Mt. McKinley, 20,500 feet above the level of the sea, and to have left permanent records which subsequent parties may discover.

THE Jefferson Day exercises at Washington, D. C., were the occasion for plans being laid for warring factions of the democratic party to come together with the Independence League, headed by William R. Hearst. John Temple Graves, former candidate for vice-president on the Independence League ticket, offered to the democratic party in the coming campaign the support of the Independence League and its organizer, William R. Hearst, provided the party would recognize the protestant principle of the league. "We are here to say," said Mr. Graves, "that at this time for democratic success (that is, the success of real Jeffersonian democracy), if the democratic party is ready for the principles that our league has fought for, we should unite in this forthcoming struggle. The Independence League is against the democratic party of the caucus, but for the democratic party of responsibility, the party of principle. We see an opportunity for united action. It depends upon you. We are ready to accept the democratic party back—the party that is not half Bryan, half Belmont, half Hearst, half Ryan. If these terms are not acceptable the Independence League must stand outside and await a better day." A letter was read from William J. Bryan, in which he declared that the time was proper for an expression of opinion on the income tax amendments to the federal constitution. Only one man out of the hundreds who were present opposed the proposed amendment. His action was based on the ground that the tax was unnecessary. The meeting resolved into a democratic love feast, with prospects of a reunited party in the coming campaign.

THE socialists have won a decided and unexpected victory in Milwaukee, electing one of their party to the mayoralty by an almost unprecedented plurality. The event is giving politicians of the republican and democratic party considerable perturbation. One of the most prominent representatives from Wisconsin in Washington makes the prediction that this means the election of two socialist congressmen from Wisconsin this fall. It is an undoubted fact that a feeling of unrest prevails over the greater part of the state and

it is feared by the leaders of the old parties that the socialists will not stop with their present municipal victory. Socialists are gaining strength rapidly, not only in Milwaukee, but throughout most of Wisconsin and considerable of the grain belt. Just why this should be so in view of the existing and widespread prosperity it would be hard to say. Notwithstanding the existing high prices, it is doubtful if better times were ever experienced in larger measure or with fewer exceptions than at present.

ANOTHER aeroplane record was broken during the past week by Glen H. Curtiss, the "man-bird" of New York, who succeeded in getting a running start from the ground in five and three-fourths seconds. Curtiss had held the record prior to this at six and two-fifths seconds. A number of aviation meets are being held in various parts of the country and public interest is being awakened in remarkable degree in the new flying machines. The Wright brothers and Mr. Curtiss continue to dominate the situation, the Wrights having secured so many patents that foreign inventors have been well-nigh crowded clear off the field. It is another triumph of American genius over the world.

THE unusual scene was presented in congress the other day of one brother presenting another brother to the house to be sworn in as a fellow member. Representative Eugene Foss, of Massachusetts, democrat, was escorted to the speaker's desk by his brother, Representative Foss, of Illinois, republican, in order that the oath of office might be administered to him. In no other case do brothers occupy seats on the floor of the house of congress, and never before have brothers of opposite political faith been members at the same time. Interest was added to the Foss incident by the fact that on the front row of the speaker's gallery a sweet-faced old lady joined in the applause. She was the mother of the two brothers who were the center of attraction. Her two daughters-in-law sat on either side of her and joined in the demonstration.

THE farmhouse in which Mrs. Mary Baker Eddy was born in Bow, N. Y., on July 16, 1821, was destroyed by fire during the week. Mrs. Eddy was the founder and remains the head of the Christian Science Church, which has grown to wonderful proportions during the past few years. The Christian Scientists are extremely loyal to Mrs. Eddy and it is probable that her birthplace would long have remained a shrine and mecca, had it not been destroyed. Mrs. Eddy is in many respects one of the most remarkable women of the last half of the nineteenth century and anything in any way connected with her career is of interest not only to her church followers, but to the general public as well.

AN INTERESTING example of a stricken conscience is reported from Kansas, where a farmer acknowledges that twenty-three years ago he cheated Governor Stubbs out of eighteen bushels of corn and is now preparing to make restitution by paying the full value of the corn, together with the accrued interest. The man figures that corn being worth fifty cents a bushel the ordinary market value of the eighteen bushels involved would be \$9, but he adds 10 per cent interest from the date of the original transaction and has sent the governor a note of \$28.10. He says he would meet the obligation in cash, but two crop failures have made it impossible to do so and his conscience will not longer allow him to defer restitution. Incidents are frequently reported in the newspapers of men sending money to railroads which they have beaten out of the price of a ticket, but this is the first case re-

ported in the papers for some time in which a simple transaction between two individuals has resulted in such long-deferred restitution.

ATTORNEY-GENERAL WICKERSHAM championed President Taft and the Payne-Adrich tariff law in a speech delivered in Chicago the other evening. The attorney-general is looked on as the official mouth-piece of the administration and delivered the most earnest and convincing defense of the Taft policies which has yet been delivered. Before leaving for Washington the following day, Attorney-General Wickersham declared that he had good news for the president. He said, "I base my opinion on inquiries I have made here concerning the extent of what is described as the insurgent movement. Misunderstandings are still present and as they clear up I may say that the insurgent movement will subside. Some people do not appreciate how much has been accomplished by the present administration. Much more is to be done before this administration expires. The desirability of another term for Mr. Taft will arise then." President Taft has been in office a little over a year and while his administration is generally com-

mended, critics have arisen in this case as in all others and opposition to a second term has already sprung up. Attorney-General Wickersham believes that this opposition will die a natural death long before the nominating convention meets.

THOMAS F. WALSH, the millionaire mine owner of Colorado, died at his home during the week, as a result of an injury received many years ago when he was a miner in the West. Mr. Walsh had come up from the ranks until he had become practically the silver king of Colorado. His beginnings were extremely humble and he had prospected many weary years, being compelled to be grubstaked by others and to eke out a precarious livelihood before he finally struck it rich. He removed from Colorado to Washington some time ago and became quite a social and political factor in the life of the national capital. He was keenly interested in aviation and was a leading worker in the organization of several aviation clubs. On receipt of the news of his death, Governor Shafroth, of Colorado, sent the following telegram to the widow: "All Colorado

(Concluded on page 9.)

**"Good Morning!
I've had my
Toasted Corn
Flakes.—
Have You?"**

Crispy — wholesome —
— deliciously flavored
and generously satisfying
Kellogg's (the genuine)
Toasted Corn Flakes sus-
tain the body — clarify the
brain — start the day with
"good morning" — and
make it "good" day all day
But you must get the
genuine, made from
the best white corn.

None Genuine Without
This Signature

W. K. Kellogg



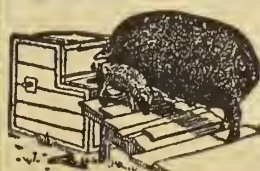
Farmers and Merchants
Insurance Company

LINCOLN, NEBRASKA.

CASH CAPITAL, \$200,000. Fully paid. Oldest Nebraska insurance company. Fire, Lightning and Windstorm Insurance. Farm policy most liberal issued. Prompt adjustments and cash paid as soon as adjusted. For full particulars and name of nearest agent, address

Farmers & Merchants Ins. Co., Lincoln, Nebraska.

Pure Water for Your Stock All the Year Round
Richards' Anti-Freezing Stock Waterer



Always ready. Works automatically. Water cool and fresh in summer; never freezes in winter. Thirty days' FREE TRIAL. Money back with 6% interest within one year if our Anti-Freezer doesn't do just as represented. Send for our catalog.



RICHARDS MFG. CO., Dept. C, Arapahoe, Neb.

AGRICULTURE IN PANAMA



E. N. Bailey Tells How the People Till the Land in the Tropics, Where Nature is Lavishly Prodigious and Where the Fruits Which Fill the American Market are Raised with Little Effort



[Editor's Note.—Mr. E. N. Bailey, editor of the Farm Fun and Philosophy Department of The Homestead, is making a trip through the Isthmus of Panama, where he is inspecting agricultural conditions in general and the progress of the Panama canal in particular. We print herewith some notes made by Mr. Bailey dealing with Panama agriculture and people. Mr. Bailey's findings as to the Panama canal will be printed at a later date and will doubtless attract widespread attention. We are indebted to Mr. Felix J. Koch for the accompanying photographs.]

THEY used to raise "cain" here the year around, but since the Americans got here they raise "cane," which the natives peel and chew in the place of sugar.

Full dress for a Panama black boy is a nice wool hat with a bright ribbon wound around it. Nothing else. A blonde kid of the same age requires a pair of suspenders and a cigarette additional.

Cassava is a root that looks like a small, red cedar stump. When boiled, mashed and then baked, it makes a bread that looks and tastes like rice, graham and potatoes. It is sweet, nourishing and pleasant to the taste.

Plantain is like the banana, but larger with a yellow meat. Boiled, fried or baked it takes the place of the potato with the negro, and the yam is its first cousin. The yam grows in the ground and requires some exertion to dig it, therefore the plantain has the preference in the Panamanian economy.

Cattle are raised here quick. A lugger ran in with the tide, shoving her nose in the sand, a cow was led out and tied to the boat—this was low "tied." When the tide came in and reached the middle of the cow a negro waded out and tied a rope securely around her horns, fastened a tackle to it, and a dozen others hoisted her into the air with her eyes bulging out like turnips, and her tongue sticking out a foot or more. They hoisted her up twenty feet high—this was high "tied," and then they let her down into the hold of the vessel unharmed. It was merely a question of whether or not her head would stay on. Short method of raising cattle.

Papua is a delicacy that is used on the tables of white and black. It has no flavor or taste; it is used as a "filler" at the hotels. It does neither good nor harm. By putting plenty of salt and pepper on it, it becomes quite warm and has a saline flavor.

The iguana is a species of lizard from two to three feet long that is esteemed a delicacy by the Spanish, but not eaten by the Barbadoan or the Jamaican. A Spanish cook walking up the street with three or four iguanas, with their fore feet tied over their backs to prevent their escape, wriggling, squirming, their tails wound around the cook's hand, can be looked on with satisfaction from the veranda in the second story of a hotel where they do not cook iguanas. That is close enough.

A visit in early morning to a market in Panama will give you some information, some consternation, and a lot of trepidation. Turtles, iguanas, and animals known and unknown, are sold for food, and lambs, fighting cocks, pullets and, once in a while, a wild pig, are noticed. It is a novelty to see the way the things are dressed, or, if alive, the way they are confined. Chickens are all "staked out," tied by the leg. There are 218 different smells that have not been classified that go with each purchase.

The machete is a sword, a hoe, an axe, a scythe, a spade, a butcher knife, a pruning knife, and a hatchet in the hands of a Panamanian, as the case may be. He can also use it as a saw, a plane, a draw shave, a hammer, a nail puller, a garden trowel, a potato digger, a trowel, and a lawn mower.

A wild hog is more dangerous than a black tiger. He has two pounds of head-cheese to one of ham, and his tenderloin is so tough that you have to cut it with tin shears. It is a queer country. The birds and the snakes have the most gorgeous colorings, the flowers are simply dazzling without perfume, while the human race is of somber tint and perfume to burn. Cocoanuts abound



TYPICAL FARM HOUSE AND COUNTRY ROAD IN PANAMA.



A PANAMA FARMER BOY AND AN IGUANA.



WHERE PANAMA CATTLE GRAZE. NOTE THE ANTS' NEST ON THE TREE.

wherever anything like a clearing has been made, and there are millions of them in the woods. Along the streets there are bushels of them in all stages of ripeness. It is about 80

degrees in the shade now, and not more than 2 or 3 degrees warmer than that in the summer. The wind blows cool every night, but the sun gets its work in after ten o'clock in a manner that compels notice.

Everything grown in a grain-belt garden will grow here to its greatest perfection, if cultivated, and ripen every week in the year. Peas, beans, radishes, onions, tomatoes, celery, cabbage, cauliflower, spinach, sweet corn, beets, carrots, asparagus, each and every day in the year, and yet I have seen only one good garden that is tended as it should be, and that a private garden kept by a gentleman for his own table and because he loves to "see things grow." The natives don't know how to raise anything but an umbrella or a disturbance.

A sea voyage widens and broadens one's views. Everything is so elevating. It tends to make one reminiscent. The rise and fall of the boat itself brings up things that you have long since forgotten. When things arise that are unpleasant but little is said—things show for themselves. It makes people very generous. Some

of them appeared to be perfectly willing to give up all they had, freely and gladly. It is a great place for openness and frankness—some let everything out, keeping nothing whatever back. The uprising at one time was quite formidable, but was finally quelled short of a riot. Everything was frightfully high going down and coming up all the time, but coming up things were down that were the highest when going down. It looks singular—when we went down everything was coming up, and when we came up everything was going down.

From an agricultural viewpoint 17,000 acres of bananas in one patch could be said to be quite an enterprise. An American company employs 3,000 men and runs a railroad thirty-two miles long, all built with northern capital. It crosses a steel bridge built in Pittsburg, that is 1,200 feet long. It crosses a swamp and into another plantation of 10,000 acres of bearing bananas, a total acreage of 27,000 acres that bear an average of 200 bunches per acre, a total of four to six million bunches per year on this and other farms, all in full bearing now. The banana being an important article of food, it is interesting to know that 167 carloads were piled into the refrigerated hold of our vessel by 250 negroes in twenty-six hours, at the rate of four bunches per second when at full speed, and neither sleep nor rest for them except time enough to swallow their victuals, a few of them eating at a time. There is work done by the negroes down there when you get them congregated and get them once at it. One such

boatload is shipped three times per week during the entire year. Bananas ripen all the time and the crop is perennial and almost perpetual, as they do not need planting oftener than once in ten or fifteen years. Man cannot live by "bananas alone," but some of them come near to it. Panama can raise bananas enough to feed the whole world and not use a one-hundredth part of its banana land. The entire banana tree is cut down when the one bunch that it raises is removed, and ten months thereafter another bunch is ready for the market. The trees grow twenty-five feet high, on an average, where cultivated, and the bunches are from ten to fifteen feet above the ground. Hundreds of bunches are rejected after being put on the boat for being too ripe or just a few defective "fingers," as a banana is called down there. These are thrown overboard as soon as the vessel is at sea and looks to be very wasteful. They are worth at the wharf twenty-eight cents per bunch. The same company ships from Jamaica 20,000,000 bunches per year and from Costa Rica 6,000,000, but a large number of these go to England and other European countries.

Agriculturally speaking, bananas and cocoanuts are about all the eatables exported from Panama, but there is much wealth represented in these crops, the former of which is regarded now as a necessity by northern people.

CURRENT EVENTS AND COMMENTS.

(Continued from page 7.)

mourns with you. Your loss is a personal loss to the entire West. Our hearts go out to you in deepest sympathy."

THE house of representatives has authorized the construction of two new battleships at a cost of \$6,000,000 each. Representative Hobson, the famous hero of the Merrimac, made an earnest effort to secure three additions to the navy, but by an almost unanimous vote the house reduced the number to two. It will be recalled that considerable opposition arose recently to the plan of building any battleships at all, one man suggesting that the money be expended in spreading agricultural knowledge throughout the land instead of building battleships which may never be called on either for offense or defense. There were many suggestions for the use of the millions involved, but the majority of the congressmen proceeded on the theory that so long as other nations are keeping up their naval equipment, the United States should do likewise. A large navy is looked on by many as one of the surest means of preserving international peace.

GRADUATE SCHOOL OF AGRICULTURE.

The fourth session of the Graduate School of Agriculture under the auspices of Association of American Agricultural Colleges and Experiment Stations will be held at the Iowa State College, Ames, Iowa, July 4-29, 1910. The new hall of agriculture, erected and equipped at a cost of \$375,000, will be the seat of activity during the session, but the other buildings and laboratories of the departments will be available for instruction.

The purpose of the Graduate School of Agriculture is to give advanced instruction in the science of agriculture with special reference to the methods of investigating agricultural problems and teaching agricultural subjects.

Instruction will be given in eight main lines,—agronomy, plant pathology and physiology, animal husbandry, poultry, horticulture, dairying, rural engineering, rural economics and sociology. The faculty secured is especially strong, consisting of many of the most eminent specialists of this and foreign countries.

The work of extension departments, such as organization and function, agricultural journalism and conservation of our natural resources will be discussed at sessions particularly arranged for such.

At the opening exercises to be held July 6th, addresses will be given by Hon. James Wilson, secretary of agriculture; Dr. A. B. Storms, president of Iowa State College; Dr. J. O. Thompson, president of Ohio State University; Dr. C. F. Curtiss, dean of agriculture, Iowa State College; Dr. H. P. Armsby, chairman of the committee on graduate study, Association of American Agricultural Colleges and Experiment Stations, and Dr. A. C. True, director of office of experiment stations and dean of the Graduate School of Agriculture.

Attendance at the sessions of this school is limited to persons who have completed a college course and have taken a bachelor's degree, except to non-graduates who are recommended by the faculty of the college with which they are associated as properly qualified to take advanced work in agriculture.

The prospectus of the fourth session is now ready for distribution. This takes up the detail of the courses offered and instructors secured for each course.

All correspondence relating to membership in this school should be addressed to Prof. W. H. Pew, registrar, Graduate School of Agriculture, Ames, Iowa.

The rotation of crops is not a theoretical proposition advanced by scientists as a panacea for all ailments of soils and crops, but a systematic and regular method of handling the farm crops practiced in certain forms 2,000 or more years ago by the Romans and advocated in America a century and

a quarter ago by George Washington in the management of his Virginia estate. The object of crop rotation is to increase the yield per acre of our farm crops without a corresponding increase in the cost of production. That rotation does increase the yields per acre is shown by experimental

data secured at various experiment stations where many careful tests have been made and by the increased production and revenue from farms on which systematic rotations are followed.

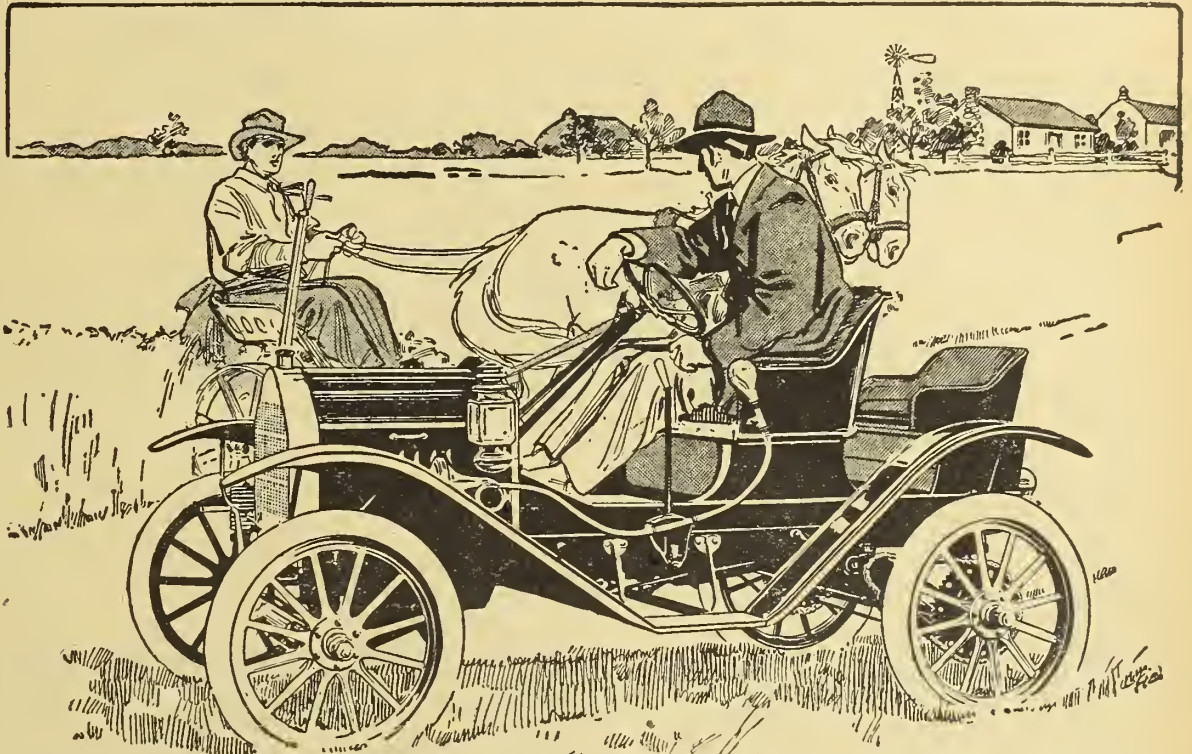
A Barton county, Missouri, farmer

recently bought an automobile and a telephone attachment. "When I'm out looking after my hay," he said, "and want to talk to some local town all I have to do is to connect with a passing wire. If I break down I can phone in to have someone come out and haul me in."

Everyman's Car

The Brush Runabout

\$485



Utility—Economy—Looks

These are the three things we wish to emphasize about the **Brush**. Keep these three things in mind when examining and when buying an automobile.

Utility

The BRUSH is the handiest car built. All you have to do to prove this statement is to drive it yourself, or to ride in it, and see how simple it is to start and stop, how fast or slow it will run, in what a short space it will turn around.

It is always ready to go. A child of twelve can crank it easily. The "little troubles" which are bound to bob up in the ordinary car never appear in the BRUSH. That's because there is nothing about it to get out of order—nothing about it that everyone cannot understand.

A critical examination of the BRUSH will show how the BRUSH owner has practically no repair bills. While the BRUSH is a marvelous utility car, its simplicity is the reason for our being able to put so much value in the car and still sell it at the amazing price of \$485.

We are not going to talk technical terms and try to confuse you. The best way to prove everything we say about the BRUSH is to arrange to see it. Notice how quietly the motor runs, how free from vibration it is, how easy the car rides, how simple and strong it is throughout—and you will then see for yourself why it has such a record with thousands of users.

Economy

Simplicity is also responsible for the wonderful economy of operation of the BRUSH. It has the simplest motor ever put in a motor car; and we believe it is the smallest consumer of gasoline per mile of any automobile built.

While we call the **Brush** "Everyman's Car," the farmer is one man that should look at the **Brush** as an investment—not a luxury. He can prove to himself that it is an investment. As a luxury, no car at anywhere near the price, offers as much. Write for literature Today.

Brush Runabout Co., 473 Baltimore Avenue, **Detroit, Mich.**

Licensed under Selden patent.

One owner (name on request) has gotten as high as 41.2 miles on one gallon. From all the testimony and evidence at hand, we are safe in saying 25 miles per gallon is a fair average of the amount consumed by any BRUSH RUNABOUT. When you buy gasoline by the barrel, as every sensible owner does, it will cost you about 11 cents a gallon. As for oil, the BRUSH uses so little that it is hardly worth considering.

The BRUSH is easy on tires, because of its light weight and simple, practical spiral springs. We have yet to hear a single complaint from a BRUSH owner about tire expenses.

You need not worry about up-keep with the BRUSH. The low cost of maintaining one will surprise and delight you.

Looks

There is nothing freakish about the car, nothing cheap looking. True, it is not as big as a \$6,000 car, but it has as good lines as any car built. Thousands of BRUSH cars are being sold in the large cities to people who could afford to pay a much higher price if necessary. But the higher price will not buy as much handiness, as much economy, or any more in looks.

The farmer using several horses should seriously consider the BRUSH from the standpoint of an investment. It is a dollars and cents proposition. A little figuring as to the cost of keeping an extra horse compared with the dozens and dozens of things you can do with a BRUSH that you could not do with a horse will astonish you.

HINTS-SUGGESTIONS-DEVICES

We extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

AN UP-TO-DATE HOG WALLOW.

Hogs are non-sweating animals and as such they must adopt unusual means to keep cool. A horse does not get down and wallow in the mud in order to cool himself, for the simple reason that the pores of his skin are designed by nature to assist in the cooling process. If he gets warm, he perspires, but when hogs get warm they instinctively act as if they knew the evaporation of water from the skin to be a cooling process. The hog prefers to wallow in water if he can find it, but very often soil and water is the best mixture that he has access to, which in everyday parlance means mud. We will, therefore, have the hog wallow with us as long as we have hogs, but there are two kinds of wallow—the right kind, and the wrong kind.

Prof. J. H. Shepard, of the state agricultural college, is an advocate of the right kind. It is made of concrete and no great amount of special skill is required to construct it.

The wallow should, of course, be located near a well or other source of water supply. Select a place in the

of planks and they may be used if for any reason cement is not accessible or suitable.

The cost depends upon the size of wallow to be made, but for the 6x8 tank it need not exceed three or four dollars for cement or lumber. Other materials needed can almost always be found upon the farm. Two men can easily do the most of the work in one day, leaving the finishing touches,



LEVELING OFF.

such as washing interior with pure cement, until the following day when it will require only about an hour's time.

For a cement wallow make a frame

of 2x4 pieces of the following outside dimensions: Length, ten feet eight inches; width, seven feet. This allows four inches for each side wall, four inches for one end wall and two feet for a sloping end. This incline enables pigs to get in and out of the



THE CLEAN WALLOW AS A FEEDING FLOOR.

wallow easily and is also a convenience in cleaning out.

Place this frame upon the exact position the wallow is to occupy and level it. Use a carpenter's level to do this; don't guess at it. Drive stakes at each corner outside and nail frame to them to hold it in place. Now proceed to dig a pit inside the frame. Make this pit at least eighteen inches deep. If the soil is loose it will be better to make the depth twenty inches so that a thick bed or foundation may be used. The temporary outside frame of 2x4s is a convenient marker and at the same time serves to make the outside cement wall smooth and true.

After the pit above described has been completed and all loose dirt thrown out, cover the bottom with a

layer of cinders or gravel. If the pit was made eighteen inches deep, make the bed four inches deep, but as already stated, it will be better to have this six inches if the soil is not firm, which means that the pit should be twenty inches deep. Pack this bed well as it is laid and thus avoid trouble later on from settling and cracking of the cement.

You are now ready for the first cement work. In a shallow mortar-box, mix good Portland cement with clean sand, one part cement to five parts of sand, and wet down to proper consistency. Do not use too much water as it only delays "setting." Cut three strips of inch board four inches wide and six feet eight inches long. Place one of these on edge, crosswise in the middle of the wallow and one at each end. These strips serve to indicate

(Concluded on page 12.)



"MORE POTATOES"

From ground planted secured by use of the KEYSTONE POTATO PLANTER than by any other method of planting. Work perfectly accurate. A simple, strong, durable machine. Write for catalog, price and full description. A. J. PLATT, Mfr. Sterling, Ill.



The Dumb Brute's Friend

The guaranteed remedy for the most stubborn cases of Cracked Heels, Speed Cracks, Scratches, Rope Burns, Grease Heel, Cracked Tests on Milk Cows. It has no equal for Scabs and Burns. At your dealer's in 25c, 50c, \$1 boxes, or write; we will ship direct. C. C. Ganz & Co., Aurora, Ill.

When writing mention this paper.



DIGGING THE PIT.

hog yard where the ground is level or as nearly level as possible. Avoid places where surface water will drain in and fill it with mud. A supply pipe from pump or windmill to the wallow is a great convenience, though if the distance is short, a rubber hose or a wooden trough may be made to serve the purpose.

It is not absolutely necessary to place the wallow in the hog yards. When the yards are adjoining or near the orchard a good arrangement is to place it in a corner of the latter where the pigs are kept during the spring and early summer.

Later on, if it is desired to use the wallow and yet keep the herd out of the orchard, it is an easy matter to draw a temporary fence around it. The important thing is to place it where it will always be available to the pigs during midsummer when it is most needed.

Much depends upon the extent to which you are engaged in hog raising as to how large a wallow you will need. Six feet wide and eight feet long makes a fair size for the average



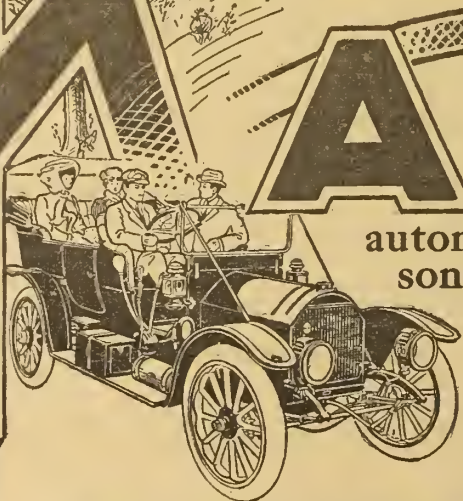
READY FOR THE CEMENT.

farm. This is the size shown in the accompanying illustrations. Eight feet square or ten feet square is better where large numbers of hogs are kept.

Cement is by all means the best material for constructing a wallow. It is so durable, easily worked and inexpensive that we would scarcely consider any other. However, the one constructed by Professor Shepard is

KISSEL

Every Inch A Car



Standard, high quality automobile in every detail—reasonably priced—reliable for all roads—easy to control—not expensive to maintain.

A Kissel Kar will enable your family to enjoy the privileges of city and town life, bring you close to high schools, doctors and churches. It will make life on the farm a hundred times more enjoyable.

Model L. D. 10, the \$1500 Kissel Kar, is as fine a machine as any one can desire who wants a four and five passenger car for general automobiling. It is roomy, reliable, a strong hill climber and equal to sandy, heavy, rough or muddy roads. The Kissel Kar has won some very famous hill and road contests.

Kissel Kars are built complete in our own factory. We do not buy any parts. This saves the profits usually paid to manufacturers of parts, and enables us to put the best quality into this \$1500 car. We test all steel and iron, and know exactly what goes into every part, and are responsible for it. This quality, with the strong, simple construction, makes this the cheapest car to run and keep.

The Kissel Kar is the sensible machine for country roads, dependable, comfortable riding, and so easy to control that any member of the family can drive it; so simple in construction that it rarely gets out of order, and requires little attention or mechanical skill to keep it in shape.

Write for the Kissel Automobile Book, showing 30-50-60 H. P. Kissel Kars, \$1500 to \$3000. It is beautifully illustrated and shows all the Kissel Kars and tells what you ought to know about automobiles. If thinking of buying a car, don't fail to write

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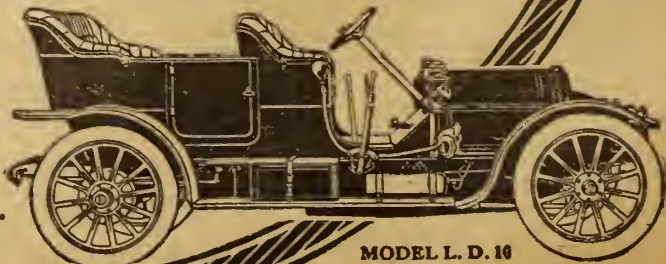
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Horse Power

4-5-7 Passenger

\$1500 \$2500

2000 3000



MODEL L. D. 10 \$1500

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should have them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LOSS OF ANIMALS—CARRIER'S LIABILITY.

As a general rule, a railroad company, or other common carrier, is responsible for goods and chattels which it undertakes to carry, unless the loss or damage is the result of inevitable accident, such as may be brought about by lightning, tempests, unusual floods and the like, which are deemed by law to be the acts of God, or is occasioned by the public enemies. This rule, however, must be understood with certain qualifications. For instance, the liability of a transportation company would not cover losses arising from the ordinary deterioration of goods in quantity or quality during transportation, or from their inherent tendency to decay.

A common carrier is held to assume the duty of furnishing safe and suitable vehicles, adequate means of transportation, and to exercise due care and foresight to guard against loss or injury to the goods from external sources, and if the property carried be inanimate, to insure its safe arrival at the point of destination, barring losses or injuries caused by inevitable accident, or public enemies, or by the nature and inherent character of the property—such as the ordinary and natural decay of fruit, vegetables and other perishable articles, and the fermentation, evaporation or unavoidable leakage of liquids.

In the transportation of live animals, another qualification of the general rule should be observed, namely, a common carrier is not liable for losses or injuries arising from the defective nature or vicious propensities of live stock carried by it. If during transportation, animals die of disease or inherent weakness, or become sick without fault on the part of the carrier, or receive injuries by reason of their own nature or vicious propensities, the loss will fall upon the owner and not upon the carrier. Where a suit is brought against a common carrier for damages on account of animals being killed or injured during transportation, the carrier will be held liable for the loss, unless it can prove that such loss was occasioned by one or more of the following causes, namely, inevitable accident, or the public enemies, or the inherent defects, weakness or vicious propensities of the animals themselves, or the fault of the shipper. When the evidence of the shipper shows that the animals were delivered to the carrier in good condition, and were killed or injured while in the carrier's custody, during transportation, these facts establish a prima facie case against the carrier, and raise the presumption of negligence on its part, and the burden then rests upon it to free itself from the implication of negligence by proof of one or more of the causes above set forth, before it can avoid liability for damages.

Any other rule would place the shipper in a position where he would have no remedy in case of loss or damage occasioned by the negligence of the carrier.

LAW QUESTIONS CONSIDERED.

RAILROAD—CATTLE CHUTE.

A Subscriber, Emmetsburg, Iowa.—I own eighty acres of land in Iowa. The railroad runs across it, cutting off thirty-two acres, part of which is good only for pasture land, as it is too wet for cultivation, being river bottom land. There is a right of way across the railroad track, but it is too far away to drive cattle across, and there is no water there for them. There is nearer and more convenient, a grade of twenty feet or more where there is ample room for a cattle chute. Can I compel the railroad company to put in a cattle chute, and if so how shall I proceed to do so?

Answer.—The law provides that when any person owns land on both sides of any railway, the corporation owning the same shall when re-

quested so to do, make and keep in good repair one cattle guard and one causeway or other adequate means of crossing the same, at such reasonable place as may be designated by the owner. The supreme court has construed this rule to mean, one causeway of crossing on grade, and where such is provided, the railroad company will not be required to make an underground chute, or overhead crossing unless such grade crossing is wholly inadequate, even if it be somewhat inconvenient for the land owner. We are therefore of opinion that you cannot compel the company in your case to put a chute through the grade.

CHANGING A PUBLIC ROAD.

A Subscriber, Oskaloosa, Iowa.—What course must be taken to change a public road in Iowa?

Answer.—The same proceedings are required to change a public road, that are necessary to open a new road. Any person wishing to change a road, must file in the office of the auditor of the proper county, a petition in substance as follows: "To the board of supervisors of—county. The undersigned asks that a road commencing at—and running thence—and terminating at—be altered as follows;—" (setting forth the change desired.) The petitioner must then give bond with sureties approved by the auditor, to pay all expenses in case the road should not be altered. Commissioners are then appointed to examine and report. A survey is made, parties interested may file objections and claims for damages in the auditor's office. Appraisers are appointed. Notices having been given to persons whose lands are affected, and finally the whole matter is heard and determined by the board of supervisors.

POWERS OF CITY COUNCIL.

Mr. Wm. McLuen, Perry, Iowa.—(1) What is the prerogative of a city council of a city of 5,000, more or less, in putting in a certain kind of street paving, although a large majority of citizens who have to pay for this paving petitioned the council in the regular way and at the time appointed, to put in a different kind of paving which they believed to be much less expensive and equally good and desirable? (2) Can the city council compel adjacent property owners to pay for paving street intersections?

Answer.—(1) However many petitions may be presented to a city council about such a matter, the city council always has the last guess—the last word—the power to decide upon the matter. It acts contrary to public sentiment; the remedy is political, and not legal. The sovereign people can turn the rascals out, and turn a new set of—that is, faithful patriots in. (2) The cost of paving street intersections, can be lawfully assessed against the property abutting or adjacent thereto.

TRESPASS ON LAND.

A Subscriber, Gillespie, Ill.—Mr. B owns eighty acres of land adjoining mine on the east. The natural course of drainage is through my land, but the land is nearly flat and the ditch is gradually filling up. Recently while I was away attending a funeral, Mr. B's renter went into my field and opened the ditch there, about three feet from the division line. What course should I pursue about the matter?

Answer.—The renter had no legal right to go upon your land, and is, therefore, a trespasser. You could sue him for damages and recover—say a dollar or so—more nominal damages. The better way is to avoid all litigation about it. It is not worth while. The natural course of drainage being through your land, you cannot prevent the surface water of B's land from flowing upon your land, but neither B nor his renter can lawfully dig ditches upon your land, without regular legal proceedings.

TEST FOR TUBERCULOSIS.

Mr. W. E. Murdock, Kress, Texas.—A three-year-old heifer was shipped from Iowa to Texas in an emigrant car. She was on the car a week and was within three weeks of calving. Upon arrival of the car at its destination in Texas, the heifer was driven direct from the train and immediately given a test for tuberculosis. The heifer was killed. (1) Can an accurate test for tuberculosis be made under such circumstances? (2) If said test was not accurate, can the owner recover damages for the killing of the heifer?

Answer.—(1) We do not know. This question is not a legal question, but one for a good veterinary surgeon to answer. (2) If the test was in fact inaccurate, and the heifer was wrongfully killed, the owner can recover damages.

The Overland The King of Cars

No other car has so large a sale—none has made such amazing records. Price, \$1,000 up.

It requires four factories, employing 4,000 men—turning out 140 Overlands daily—to meet the flood-like demand for these cars. Yet two years ago a hundred rivals had a larger sale.

The reason lies largely in the car's utter simplicity. Its able designer made it almost trouble-proof.

He created an engine which, for endurance, is the marvel of engineering.

He designed the pedal control. One goes forward or backward, slow or fast, by merely pushing pedals. The hands have nothing to do but steer.

A child can master the car in ten minutes. A novice can drive it a thousand miles without any thought of trouble.

The Overland always keeps going, and almost cares for itself. All the usual complexities have been eliminated.

That is why each car sells others, and our orders for this year's Overlands amount to \$24,000,000.

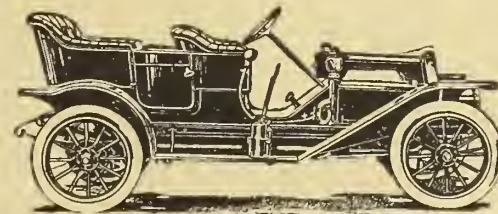
Another fact is that no other car gives nearly so much for the money. This is due to our enormous output, and the fortunes invested in our automatic machinery. It would bankrupt a smaller maker to try to compete with us.

You can get a 25-horsepower Overland, with a 102-inch wheel base, for \$1,000. You can get a 40-horsepower Overland, with a 112-inch wheel base, for \$1,250. The prices include lamps and magneto.

This car, which has captured the country, is the car you will want when you know it.

Two Free Books

Nothing is published about automobiles so interesting as the facts about Overlands. They are told in two books which we want to send you. Every motor car lover should have them. Cut out this coupon as a reminder to write for the books today.



\$1,000 to \$1,500.—According to size, style and power.

The Willys-Overland Co.
Toledo, Ohio.

Licensed Under Selden Patent

Please send me the two books free.

STOP PAYING HOLD-UP PRICES

Our prices, quality and service will prove that you can do better here than anywhere else. We sell highest grade lumber, millwork, builders' hardware, roofing, paint, cement, etc., direct to consumer at wholesale prices. Quality has been the making of our immense business and our prices are right.

LET US FIGURE YOUR LUMBER BILL

We are independent of all combinations and make our own prices. We pay your expenses to Council Bluffs and also pay freight on carload shipments. Our delivered prices on local shipments will save you money. Send us this coupon.

C. HAFFER LUMBER CO.,
COUNCIL BLUFFS, IOWA.

I am a reader of Iowa Homestead and want to know more about your plan. Please send catalog.

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BINDER TWINE, 7½c PER LB.

F. O. B. Melrose, O., or Kansas City, Mo. Farmer agents wanted. For samples, catalog, write Theo. Burt & Sons, Melrose, O.

CANE SEED

The best forage crop producer on record. Have a limited quantity new crop, thoroughly cleaned seed on hand. SAMPLES and PRICES on application. Address JOHN J. BLOMMERS, PELLA, IOWA.

HINTS, SUGGESTIONS AND DEVICES.

(Continued from page 10.)

thickness floor is to be built up and also make a convenient base for leveling. Lay the sloping end and one-half of the floor first by placing a four-inch layer of cement directly upon the bed, working it on with a trowel and leveling as above directed. Use a straight-edge board to make a series of grooves in the sloping end so that bogs may have a foothold when going in and coming out of the wallow. The cross strip at this end should be taken out at the last moment and its place filled with cement. The other end may now be laid and leveled in the same way, the two remaining cross strips removed and the floor is completed.

While laying floor it is well to bury in it a strip of woven wire fence or a half dozen strands of barbed wire which will serve to bind the entire mass together.

Cut two ten-inch planks, nine feet eight inches long and slope the ends, also two cross pieces five feet eight inches of the same material. You will also need two or three lighter cross pieces for the top. Fasten these together. Now place this frame upon the cement floor with the outside edges exactly four inches from inside edges of the temporary frame. Lay two or three strands of wire in these four-inch spaces and fill them with cement tamping it in to insure a compact wall. Make the top smooth and round the inside edge so that it will not injure animals that come in contact with it.

Cover the entire wallow with loose boards or canvas to protect it until the cement is thoroughly "set." After this it only remains to remove the timbers and whitewash the walls and bottom with pure cement as a safeguard against leaks. The "Piggies' Bath Tub" is now ready for use as soon as this last coat is hard.

FOOD FROM "LOCO" WEED.

That the "loco" weed, the plague of stock raisers west of the Mississippi river for the last quarter of a century, cannot only be rendered harmless, but may be made a valuable food product, was the substance of an address delivered by Prof. L. E. Sayre, dean of the Kansas University Pharmacy School, before the Kansas Stock Breeders' Association in Topeka.

The "loco" weed is a native of thirteen states west of the Mississippi river, and has caused the loss of thousands of dollars to stock raisers in the death of stock poisoned by grazing over the deadly weed. There are two varieties, the "white loco" and the "red loco." Both are found in great quantities in the western part of Kansas. It is no uncommon sight to see hundreds of acres in the semi-arid regions covered with the weed and practically useless. The food value of the plant has been proved in the Kansas University laboratories by repeated analysis, and if the poisonous property is removed, it has been found to be as good as alfalfa or white clover.

"It is very similar to alfalfa," says Dr. Sayre, "and it compares very well with it but for the poisonous principle. It contains more proteid than alfalfa, and nearly as much as white clover or bran, and more nitrogen than either clover or alfalfa."

Dr. Sayre says that by curing the plant for hay and sprinkling it with sodium sulphate or common "horse salts" in the stack, the poisonous effects are destroyed. The poisonous element in the loco weed is now known to be barium, small quantities of which are absorbed from some soils. This explains the fact that in some localities the weed is not poisonous. Barium is soluble in the digestive juices of the domestic animals and when dissolved is taken into the blood, causing paralysis of the brain, with the common symptom of "bloat."

"Sodium sulphate will make the barium insoluble absolutely and therefore it would be harmless in the stomach of animals feeding on loco hay so treated, if our experiments prove a fair indication," Dr. Sayre says.

Dr. Sayre started the investigation of the loco weed twenty years ago.

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

RARE BARGAINS in dairy and stock farms. 540 acres; level; running water; buildings; 80 acres cleared, balance easy clearing. Price \$18.50. 415 acres level, lake shore, two sets of new buildings cost \$6,000. Price \$22.50. 200 acres, lake shore, 70 under cultivation, balance timber, buildings. Price \$28.00. These farms are best of soil, in settled community in best dairy country on earth, handy to schools, creamery, etc. Have smaller farms. Write me your wants. These three are special snaps for quick sale. Perkins, Balsam Lake, Wisconsin.

KANSAS FARMS for sale. 240 acres 6 miles from Salina; 100 acres cultivated, fenced; new 5 room house; good soft water; barn; granary; orchard; telephone; rural route; close to school; price, \$35 per acre. 360 acres, 5 miles from Salina; 100 acres cultivated, balance pasture; 5 room house, stable, orchard; price, \$35 per acre. 320 acres, 7 miles from town; 100 acres cultivated, 14 acres alfalfa, balance pasture; 4 room house; barn for 11 horses; well, cistern, rural route, telephone; price, \$30 per acre. Write for list. V. E. Niquette, Salina, Kansas.

COLORADO FARMS. If you want western land, may I explain opportunities in northeast Colorado, to invest in either irrigated or non-irrigated wild land, or improved farms. Upon the ground, experienced expert in every detail of the land trade, I am in position to aid a buyer by acting (if so required) exclusively in his interest to secure for him a bargain in land. I refer by special permission to First National Bank, Sterling, Colorado. For information address, H. A. Clapp, Sterling, Colorado.

WHEAT! WHEAT! Come, help us feed the hungry world. Here, in North Dakota's richest section, a few great crops will make you independent. Send for descriptions, illustrated folders showing what we offer you. See how easy it will be to make a start. Honest information. Rich soil, low prices, competing markets, every social advantage. But, don't wait. Lands are going fast. Write today. Agents wanted everywhere. Shipley Investment Co., Box 303, Hampden, Ramsey county, N. D.

SOUTH DAKOTA lands. Lyman county is in corn and alfalfa belt of South Dakota. We raise all kinds of crops; corn and alfalfa are our specialties. Some good bargains in lands here that will make you rich. I make a specialty of large stock and grain farms and ranches. Have a snap in 1,200 acre farm, all tillable, good improvements; have from 160 to 4,000 acres in single tract. Write if interested. I. N. Auld, Oacoma, South Dakota.

TO CLOSE PARTNERSHIP—For immediate sale—2,065 acres Lyman county, South Dakota, half bottom, half upland, wood and water plenty, ideal for breeding stock farm, in heart of best territory for selling blooded stock—horses, cattle, or hogs. The bottom finest corn and alfalfa land in state. Three cuttings, two tons each. \$20,000 cash, balance annual payments 6%. If able to buy this, write one of owners, G. W. Pitts, Alton, Iowa.

CHOICE LANDS in north Nebraska. I have any kind of land you want, from good grazing land to choice hay lands, and the very best kind of farming lands. Can quote you prices from \$10 to \$75 per acre. I make a specialty of handling large tracts of good lands. You can buy these lands from me first hand as I own most of the property I handle. F. J. Disner, O'Neill, Nebraska.

LOOK! A GREAT SNAP: Only \$6 an acre, easy terms; 116 acres in Polk county, Wisconsin, 25 acres clay, balance sandy, practically all tillable; 32,000 feet hard-wood saw-timber, beside lots of fuel and fencing. Crossed by fine trout stream and small river. Owner, H. D. B., Lock Box A, St. Croix Falls, Wisconsin.

FINE IOWA farm for sale. Half section highly improved; six miles from Sioux City; house, fine barn; good system of water works; good orchard; fine grove; near school, and everything to make it a fine farm. Owner, J. A. Whitaker, Sioux City, Ia.

WANTED—Good live agents to help us sell Lyman, Stanley and Brule county lands. We have our own teams and automobiles and best of facilities to show our lands. Address, The Scheffer-Grasenger Land Co., Vivian, South Dakota.

BRITISH COLUMBIA farm lands. 100,000 acres near Fort George, on Grand Trunk Pacific. Rich soil, ideal climate, small or large blocks, on easy terms. The Mercantile Trust Co. Ltd., Vancouver, British Columbia.

25 ACRES—9 room house, barn 28x38. Water piped to yard. One mile to railroad village. Main road. Price, \$1,600, 1/2 cash. Hall's Farm Agency; Owego, Tioga county, New York.

ONE HUNDRED quarter sections of choice farm land in the corn belt of South Dakota at from \$15 to \$25 per acre. Good agents wanted. Wm. Uptegrove, Chamberlain, South Dakota.

LYMAN COUNTY SNAPS—15,000 acres of choice lands for sale at \$15 per acre up. Write for particulars. A. T. Cretney, Vivian, South Dakota.

IMPROVED FARM of 320 acres, fine land, will bear inspection, \$45 per acre. Barton county, Missouri. Chas. R. Glenn, Lamar, Missouri.

SNAPS, South Dakota improved farms and raw lands. Write S. Tobiasen, Kimball, South Dakota.

He was the first chemist to demonstrate that the poison in the loco weed was not similar to opium or larkspur. Fifteen years ago a recognized chemist told him: "You are wasting time." Dr. Sayre went on experimenting and proved that they were all wrong. He tried to get appropriations to carry on the study, but no one listened. The farmers scoffed at the idea of making the weed harmless.

Then it was that the government chemists began to take notice and their work confirmed Dr. Sayre's theory. The discovery of barium proved his theory that the soil which grew the plant was responsible. Now Dr. Sayre is offering a probable method of neutralizing the poison.

"I cannot state positively at this time that sodium sulphate will absolutely do the work," he says, "but all the experiments are favorable. It will be a cheap way of making a world of food products out of a worse than useless weed if it stands the test."

REAL ESTATE.

FOR SALE—Marquette county, Wisconsin, improved dairy farms at great bargains, ready for immediate possession. 120 acres, 2 miles from court house of Marquette, Wis. Fine buildings; price \$10,000. 131 acres adjoining Porterfield, Wis., 60 acres cleared; good buildings; price \$6,500. 160 acres 1/2 mile from Porterfield, Wis.; 90 acres under cultivation; splendid land; fair buildings, price \$6,500. 300 acres good land adjoining town of Ellis Junction, Wis., 120 acres cleared, in high state of cultivation, balance fine woods pasture; woven wire fence; fine buildings; price \$15,000. We also own 100,000 acres of choice hardwood lands which we will sell in tracts to suit, prices ranging from \$7.50 to \$20 per acre. Write for descriptive booklet and map. We want a few good, live agents—good proposition for the right men. Write for particulars. Skidmore Land Company, "Good Farm Lands," Box 56-C, Marquette, Wisconsin.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription, Farm and Real Estate Journal, Trial Iowa.

MONTANA—If you want a farm of any kind, little or big, for hay, grain, stock or fruit, irrigated or unirrigated, in a land of sunshine and good water, write us. We raise 30 to 50 bushels wheat without irrigation, and everything else in proportion. Write, stating your wants. Montana Land Co., Bozeman, Montana.

FOR SALE—640 acres all tillable land in Dunn County, North Dakota, 12 miles from Taylor; 160 acres partially improved, three miles from Somerset, Manitoba; 190 acres six miles from Superior, Wisconsin; also high-class properties in South Dakota. A. G. Hahn, owner, Sioux Falls, S. D.

GOVERNMENT farms free. Official 112-page book, "Vacant Government Lands," describes every acre in every county in U. S. How secured free. 1910 diagrams and tables. All about irrigated farms. Price 25c postpaid. Webb Publishing Company, Station H, St. Paul, Minnesota.

SOUTH DAKOTA corn and alfalfa lands. The rush is on for Stanley County. Buy lands near the new railroad and double your money in the next year; 20,000 acres to select from; \$10 to \$18 per acre. Call or write Felland Realty Company, 531 Palace Bldg., Minneapolis, Minnesota.

FLORIDA—Fortunes are being made raising vegetables in Florida. Don't put a dollar into anything until you write for our valuable book of facts, showing what others are doing. We merely ask you to read the facts—that's all. Address Florida Land Co., Chipley, Florida.

FOR SALE by owner; one of the best improved 1/2 sections in the state. School house on place. Located 1 1/2 miles south of Webster, South Dakota. If interested, write for particulars. Price \$75 per acre. W. F. Steffen, Webster, South Dakota.

COLORADO—Irrigated lands, 25 dollars and upward per acre. We can quote you prices that will make you some money. A letter of inquiry costs you nothing. Get in touch with us. The Boyle Realty Co., Durango, Colorado.

BRITISH COLUMBIA—Fort George lands; 50,000 acres fertile wheat and mixed farming lands; send for photographs and surveyors' reports. The Wright Investment Co., Dominion Trust building, Vancouver, B. C., Canada.

FOR SALE—An ideal farm; 467 acres in Morton County, North Dakota, near to new town. Hay bottom, some timber and plenty of good farm land. \$20 an acre, one-half cash. H. R. Bitzing, Mandan, North Dakota.

COME TO GLASGOW, Montana. Will locate you on 1/2 section, Valley County. Relinquishments for sale. Also deeded land. Settlers coming fast. Write us your wants. Miller & Christiansen, Glasgow, Montana.

CHEAPEST FARM in Kansas. 480 acres, 2 miles Humboldt, Allen County. Black soil, level, no rock. Free natural gas; improved. Write for description and photos. Iola Land Company, Iola, Kansas.

SOUTHERN MINNESOTA lands. If you want a good farm, a good home, a profitable investment, come to Alden, Minnesota, and see our bargains, or write your wants. Ralph O. Olson, Alden, Minn.

FOR SALE—62 acre fruit farm; an ideal home; 40 acres of choice fruits; good 6 room house; good outbuildings; fine spring; 1 1/4 miles town 3,500 population. Price, \$6,200. Box 51, Bentonville, Ark.

WE HAVE for sale about a dozen choice farms in the very best part of Southern Minnesota at prices ranging from \$55 to \$70 per acre. Write for particulars to Mapleton State Bank, Mapleton, Minn.

NORTH DAKOTA lands on ten years' time, crop payments at 6 per cent interest. Stutsman Co. Rich soil. Map and particulars on request. Address Frank L. Kellogg, Cleveland, North Dakota.

IOWA FARMS raise big corn crops. Come to Mason City, Iowa, and see some of the finest land in the world, at prices from \$55 to \$100 per acre. Frank Land & Investment Co., Mason City, Iowa.

HEART RIVER Valley lands, Morton County, North Dakota, on the new Northern Pacific extension. Write for free booklet and map. North Star Investment Co., Winthrop, Minnesota.

FOR SALE—Good, choice farm lands in Hand and Stanley counties, South Dakota, by owner. Low prices; easy terms. Jay P. Morrill, Palace Bldg., Minneapolis, Minnesota.

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NOTICE TO FARMERS and investors: We are selling the select 160 and 320 acre tracts of farm land within 15 miles of Presho, Lyman county, South Dakota. Only prime land handled. Write or call at office in Presho. Fenton & Gannon.

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MATINGS, headed by blue ribbon birds: Rhode Island Reds, both combs; Columbian, White and Partridge Wyandottes, Toulouse geese, Pekin and Rouen ducks. Eggs, 75c, to \$1.25 per sitting; \$5 to \$6 per 100. Catalog. G. A. Mitchell, Ridott, Illinois.

SINGLE COMB Brown Leghorns, Houdans and BUCKEYES. Eggs from selected stock, 15, \$1.50; range flock Leghorns, 30, \$1; 100, \$3. Indian Runner duck eggs, 13, \$1; 100, \$5. E. A. Kauffman, Lockridge, Ia.

SINGLE COMB White Leghorns. Standard bred; extra good layers. Eggs—fine pen headed by cockerel direct from Eastling, \$2 per 30; farm range flock, \$4.50 per 100. L. Z. Craig, Charleston, Illinois.

BARRED Plymouth Rocks exclusively. Large boned, good layers; 15 eggs, 75c; 30, \$1.40; 100, \$4. Satisfaction guaranteed. Mrs. Geo. W. Saunders, Mrs. May Stith, Marceline, Missouri.

WATTS' BARRED Plymouth Rocks. Eggs from stock scoring up to 92 1/2 points, and winners at Des Moines Poultry Show, 1908. Eggs, \$1.50 per 15; \$2.50 per 30. J. C. Watts, Berwick, Iowa.

EGGS from select pens of Partridge and Columbian Wyandottes, Buff Rocks, Houdans, S. S. Hamburgs, Blue Andalusians, \$1.50 per 15. A. Arends, Blairsburg, Iowa.

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EGGS from high-scoring Barred White and Buff Plymouth Rocks; 15 eggs, one dollar; 45 eggs, two dollars. A. Mathews, Mt. Union, Iowa.

SINGLE COMB Buff Leghorns; Kansas City prize winners; excellent layers; eggs reasonable; guaranteed. John Poir, Cowgill, Missouri.

ROSE COMB Brown Leghorns exclusively; farm range, prize winning stock. Eggs, 18, \$1; \$3.50 per 100. Chas. Applegate, Arton, Iowa.

WHITE WYANDOTTES, prize winners, scored 94 and 95. Eggs, 15, \$1.50. Guaranteed bargain. Mrs. L. F. Fulk, Winfield, Kansas.

ROUEN and PEKIN duck eggs, \$2.00 per 15. Chicago and Milwaukee winners. Address, W. B. Summers, Burlington, Wisconsin.

SINGLE COMB White Leghorns exclusively. Eggs, 15, 75c; 30, \$2; 100, \$3.50. Mrs. E. T. Raucher, Lockridge, Iowa.

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BARRED PLYMOUTH rock eggs, \$1.50 per 15 or \$3.00 per 100. Aye Bros., Blair, Nebraska.

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ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

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PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

PATENT secured or attorney's fee returned. Inventors handbook free. S. H. Evans, Washington, D. C.

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AGENTS WANTED in every community to sell "Vigor Tonic"—guaranteed best all around stock powder on market. Liberal commission. Farmers' Co-operative Remedy Co., Peoria, Illinois.

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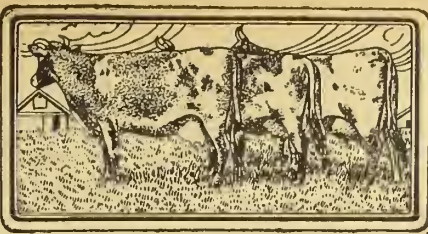
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MISCELLANEOUS.

PLANS DRAWN for modern dairy and farm buildings. Personal supervision in construction. Our monthly journal free. Buff Jersey, Monmouth, Ill.



All communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE VENTILATION OF THE BARN.

It is quite generally admitted today that some effective system of barn ventilation is necessary if cattle and other stabled live stock are to be kept in healthy condition. The germs of tuberculosis and other diseases thrive best in barns which are not well ventilated and lighted. Fresh air and sunlight are easily the best germ destroyers known to man. Both may be obtained at a nominal cost and with but very little difficulty.

There are, of course, several systems of ventilation, but none are meeting with more general acceptance than the one planned by Prof. F. H. King, of Madison, Wis. This plan follows the theory that foul air containing gases and other impurities is heavier than pure air and consequently will collect at or near the floor. The King system admits the fresh air at the ceiling and expels the foul air through a flue which extends from a point several feet above the highest part of the barn roof down through the barn to within a foot or so of the floor. This flue acts just as does a chimney and through it the heavy air is removed from the barn.

A great many men have supposed any system of ventilation would be expensive and difficult to install. This, however, is a serious mistake. Some of the very best ventilation schemes in existence have cost comparatively little either in expense of materials or in labor to construct them. In fact, the more simple and the plainer the ventilating flues are made the better.

If any of our readers who are expecting to put in ventilating systems during the present summer and who are having difficulty in planning their intake and outlet flues, will write this office giving full description of the size and arrangements of their barns, the size of their herds, etc., we will gladly supply them with suggested plans for ventilation. It will be well for all such inquiries to be accompanied with a rough drawing of the barn.

THE 1910 DAIRY SHOW.

The directors of the National Dairy Show Association here finally and definitely decided to hold the fifth National Dairy Show in Milwaukee, Wis., on October 14th to 23d, inclusive. For a time the board was seriously considering Toledo, Ohio, as the location of the next dairy exposition. The citizens of Ohio were more than anxious to have the show moved into that state and were preparing to give the association a most hearty welcome. An organization of Toledo business men submitted a very attractive proposition to the consideration of the board, and even went so far as to offer to provide a permanent home for the exposition if the association would but decide to become a part of the Toledo family. However, after carefully considering all of the factors bearing upon the case, the board of managers voted to remain in Wisconsin for at least one more year. They realized that the most successful show in the history of the National Dairy Show Association was that held at Milwaukee last year and they were therefore reluctant to leave this territory.

Prof. H. E. Van Norman, of the Pennsylvania State College, who is secretary and manager of the dairy show board, makes the following announcement at this time which will certainly be of interest to every dairyman in the corn belt:

The Milwaukee auditorium management has agreed to improve the ventilation of the cattle quarters by the installation of large motor-driven fans and three, approximately, six by eight feet ventilation flues. They have also agreed to make certain minor improvements asked for by the dairy show directors.

The interest shown in all branches of the industry suggests that the time

is not far distant when this great dairy exposition will require the construction of buildings particularly adapted to its needs. With the recognition of this fact, the management has refrained from committing itself further than the next show.

The display of the latest developments in the machinery required in the industry, recognition of the breeders' work and the making of yearly performance records, together with the educational features of this year's exposition will be the purpose of the management.

As inferred by Mr. Van Norman the dairy show is growing rapidly and is or soon will be entitled to full recognition as a country wide exposition. It represents one of the most important industries in this country and to exert its rightful influence upon American dairying it must assume proportions and dignity commensurate with its importance.

It is and will continue to be an institution of which the middle West should be proud, and which, every dairyman in the corn belt should encourage by every legitimate means.

LONG-TIME RECORDS.

The American Guernsey Cattle Club, we are told, was the first to establish an advance register upon the basis of yearly production. In arranging for the recognition of long-time milk and butter records these men planned thereby to encourage the development of the most practicable qualities or characteristics of a dairy cow, namely, the consistent production of high testing milk throughout a natural milking period. They believed that a cow might be stimulated to do so well for a week, two weeks or a month that her system would be broken down for the remainder of the year and her total milk and butter yield would be quite out of proportion with the record established during that short test period.

Sec. W. H. Caldwell has supplied us with a few figures which tend to prove the wisdom of the association in establishing the advanced register upon the yearly basis. There are now 1,021 records, the average of which is 7,820.52 pounds of milk, 5.09 per cent butter fat; 407.82 pounds of butter fat which is equivalent to 475.79 pounds of butter. The highest record is 18,458.8 pounds of milk and 954.76 pounds of butter fat equivalent to 1,114 pounds of butter.

One of the main things to be sought for in the business of dairying is economy of production. We want to breed and develop cows, no matter of what breed, which will produce milk economically. The margin between cost of feed and the receipts for the sale of milk, cream or butter is what necessarily determines the usefulness of a cow.

FEEDING THE DAIRY CALF.

To the Editor of The Homestead:

The dairy calf that is to be raised should be fed differently from the calf that is to be made into veal at the end of a few weeks or the calf of beef cattle percentage that is to be made into a beef-breed cow. From the very first the fact that the calf is to be raised for a dairy cow must be kept in mind. The feeding must be carefully planned, as reckless feeding in the outset does great damage. Thus, a dairy cow developed from a recklessly fed dairy calf will often have a digestion that is not up to requirements. The calf that is overfed on cold milk will develop scours and though it may be cured, it is a question if a weakness is not created that will show itself later in the life of the cow. The digestive powers of the calf are weak and are easily thrown out of order. The same would not be possible with a mature cow that had always been so fed that no case of indigestion had developed. The greatest trouble in the feeding of dairy

IMPORTANT TO CREAM SEPARATOR BUYERS



Don't make the mistake of assuming that the inexperienced buyer can't see and appreciate the difference between cream separators.

You can't see the difference in results, in quantity and quality of product, ease of operation, cleaning and durability, of course, without comparative use of different machines.

But there is not a sensible man anywhere who in comparing the DE LAVAL and any other cream separator side by side—the design, construction, finish, assembling and unassembling of parts, simplicity, manifest ease of cleaning and all around practicability—cannot readily appreciate the superiority of the DE LAVAL to the other.

And when it comes to practical test, every responsible person who wishes it may have the free trial of a DE LAVAL machine at his own home without advance payment or any obligation whatever.

Then WHY think of buying any other make of separator without at least first seeing if not trying a 1910 IMPROVED DE LAVAL machine? WHY make so important an investment as a cream separator without being SURE that you are right about it when it need cost you absolutely nothing to be sure of it?

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"I'll Treat You Square"



Friends—

SEND me your name—just tell me how many cows you milk, and I will write you my personal advice so you can try for 30 days free the best Galloway Bath-In-Oil Cream Separator to do your work—over 200 to 950 pounds capacity per hour, according to your needs.

Spend a cent now, this way, for a postal and you can just as easily save from \$25 to \$50 as not. Why pay more when for only \$33.50 and upward, I prepay the freight to you on 30 days' free trial—90 days' approval test, if you say so, and give you my 30 years' guarantee? You cannot get a better offer—to make you more money or save you more money on any separator made—and I will send you the best separator in the world today and you can prove it without any salesmen there to talk you over. Why not send Galloway your name today and let me write you personally and send you my splendid, big, color-illustrated separator book right away.

Let Me Send You My GALLOWAY Bath-In-Oil SEPARATOR On My Real 30 Days' Free Trial

YOU can test the Galloway alongside of the highest priced \$85 to \$110 separators sold by anybody today—to prove that my new Bath-In-Oil principle is the greatest invention in separators in history. Gears run in oil like a \$5,000.00 automobile. Dust-proof—no oil-hole. Impossible to heat or wear or put out of commission the splendid mechanism which gets you the biggest profits—all the cream—all the butter fat. All gears enclosed—handsomest machine made (as you can tell below by the illustration), milk and cream spouts high for cans; lowest revolving milk tank, only 33 inches high; so no high lifting. The Galloway is the easiest to clean, with few parts, which come out easy and cannot get back out of place; easiest to run; high crank; low tank; no high lifting and no "back breaking" cranking. Gets the finest cream qualities—and all of it. No lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down. Skims closest, in any climate or season, no matter whether your milk

is warm or cold. This handsome machine, compact and substantial, with beautiful finish, cannot be beaten at any price. And you cannot get my new Bath-In-Oil principle on any other separator. Remember, that this is most important. It proves to you why I can afford to give you a 30 years' guarantee because I know that the parts cannot wear this out—get hot—clog—or clash and put the separator out of commission like others do where you have to be remembering to oil them all the time. The Galloway is the only separator into which you can pour oil at the top once a month from your oil jug, or can, and have it oil itself without danger of running dry or ruining it like others. This costs you nothing extra—is worth \$50.00 more than separators built the other way. Remember, that I am an actual manufacturer—not a supply house, catalog house, dealer or jobber. You get the lowest direct factory price from me every time. Write me today for my big separator catalog and let me quote you prices that will astonish you.

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Oxford Hay Loader AND HAY RAKE COMBINED

Is a one-man machine; pulls one-third easier than any rake bar loader on the market; has direct gear drive—no chains to wear out or break; double crank shaft, insuring no vibration; spring joint on rake bars, enabling rake to be raised while passing obstruction. No shoes to pull behind. Works same on rough, stony or uneven ground, up hill or down. Best material used in construction. Wherever used it supersedes all others. Twenty years' satisfactory service. Julius Adrian, Elwood, Iowa, says: "Can safely recommend it to anyone wanting light-running, durable loader." Send for descriptive catalog, free for asking. Lasack Bros. & Co., Oxford Junc. Ia.



**1-3 Easier to Pull
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Blacklegoids

Simplest, Safest, Surest Vaccination for the prevention of

BLACKLEG IN CATTLE

NO DOSE TO MEASURE. NO LIQUID TO SPILL. NO STRING TO ROT.

Just a little pill to be placed under the skin of the animal by a single thrust of the instrument. You cannot afford to let your cattle die of blackleg when a few dollars spent on Blacklegoids will save them. Write for circular.

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NOTICE.—For a limited time we will give to any stockman an injector free with his first purchase of 100 vaccinations.



calves reared by hand is this same tendency to overfeed. The stomach of the calf is adapted to receiving warm milk and then only in small quantities at one time. Two rules in feeding the dairy calf should be kept in mind, namely, never feed milk cold and do not feed it in large quantities. A common error is to imagine that because the butter fat has been taken out of the milk a larger amount should be fed. The reason should operate just the other way. Dairy calves should not be allowed to become "pot-bellied." This is a sign that they have had large quantities of milk at each feeding and as a general thing it may be taken as a sign that the calf has been often scoured as a result of this overfeeding. If the feeding is right the calf will grow up with a good shape. On the other hand, the calf must not be fed so little that it will be stunted in growth. It should be kept growing steadily from the time of its birth.

The calf that is allowed to develop scours from overfeeding or being given too cold milk is likely to suffer a setback, for during this period the food is not digesting and the result is that the frame of the calf is not being nourished. So a calf can be stunted by overfeeding and underfeeding. It is impossible to give any stated rule as to the amount of milk that should be given, for calves are of different sizes and of several breeds and are brought up under all kinds of conditions. The amount that would be just right for one calf would be too much for another calf and too little for a third calf. The man who closely observes his calves and feeds them with the object of finding out just how much is best will quickly arrive at conclusion on the matter. About 95 to 98 degrees will be the right temperature of the milk when fed and the calf must not be expected to consume more skim milk than it would of whole milk. The amount, of course, should be gradually increased as the calf becomes older. The regulation of the feeding hours is of prime importance and should be adhered to as nearly as possible. At two weeks of age the calf will begin to nibble at hay and good clover or alfalfa hay should be kept before it, giving a new wisp every day. About the same time it will also begin to nibble at oats or bran and a box of either should be placed where it is easily accessible. It is well to encourage the eating of grain and hay as much as possible, as the calf does not begin to ruminate until it has solid food in its stomach. Corn meal or timothy hay should not be fed, as both are fattening foods and heifer calves designed for the dairy must not be allowed to become fat and beefy.

Illinois. O. F. Taylor.

MAKING GOOD BUTTER.

To the Editor of The Homestead:

"Some folks don't know good butter when they see it."

That is what I heard a farmer's wife say recently, and I am inclined to think this is so. This opinion was strengthened by hearing a farmer say that he had seen oleomargarine that you could not tell from good dairy butter. Now that seems to me an absolute impossibility if one be possessed of a fair degree of perception. Butter that is butter always has a little grain in it. Oleomargarine is smooth and salve. But that is not all. There is a taste about butter that never can be imparted to any imitation.

But for a moment let's ask a question or two about the process of making good butter. How is it done?

First, begin down at the barn. Good butter comes from good cows. You cannot make first-class butter without good cows. Why is it that some butter "stands up," as we say, through hot weather and keeps its good qualities? Is it in the process of making? Not entirely. The milk came from good butter cows.

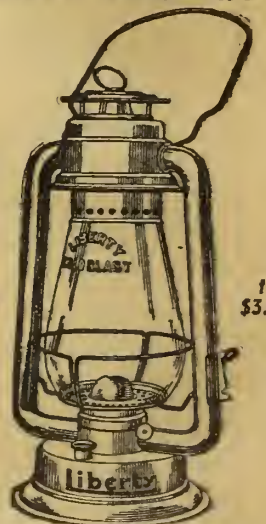
And then, we must not overlook care in milking, setting and storing cream. One bad milker may spoil a whole tub of butter just by being careless in letting stuff get into his pail. I have known men who always began milking by letting a stream or two fall on the palms of their hands. That is a most abominable practice. The man that does that is not fit to milk a cow. For more or less foul matter finds

its way from the hands of a man who thus besmears himself to the pail. It is not always easy to get good milkers, but I would insist on cleanliness, above all things.

Ripening cream is another art that not all understand. It cannot be learned altogether from books. To know just when the cream has the right "tang" is not a thing easily described. But may I say that cream should always be slightly acid before churning? If too sour it will not make as good butter as if it is just right. So sour and sweet cream never ought to be churned at the same time. Have it all uniform as nearly as possible.

In churning, watch the hole in the cover with the glass over it. You can tell something by the sound of the contents as they revolve. But as soon as the glass begins to clear, be especially careful to stop before you have destroyed the kernels and made

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Note—We are distributors in the Northwest for the celebrated **Climax Ensilage Cutter.**

your butter too smooth. We want well-defined grains when we take out the butter milk. And the same thing may be said about working butter. If worked too much, it loses the nice grains and becomes a smooth, salvey substance.

Details worth while are good water, clean salt and hands that are as free from stain or other defilement as the dew of the morning. E. L. Vincent.

DAIRY TROUBLES.

To the Editor of The Homestead:

The advent of the creamery in dairy affairs a few years ago was hailed by farmers with delight, as it afforded them a means of escape from an endless round of work and the occasional vexations that will present themselves to all butter makers. Churns, butter bowls, crocks and pans were dismissed without a formal good-bye. There was nothing to do now but to milk the cows and take care of the monthly milk check. Dairying was now divested of its worst features, and the paths of dairy farmers would henceforth be paths of peace.

But, as is often the case in an exchange from the old to the new, there were troubles ahead; troubles just as great as before, only of a different kind, and their very newness made them all the harder to bear. The first, most persistent and all-prevailing pest was a very small one, yet it has been the source of mountains of work and trouble to the farmer or to his better-half.

I refer to the germ that likes milk and works hardest in warm weather. And why is it so busy? Just to keep humanity busy. The milk cans have not been thoroughly cleaned from day to day, and Mr. and Mrs. Germ knowing it, resolve to have a feast, and in the meantime to raise a family or several generations of families of little germs. The can is filled with clean milk (at least it ought to be clean) fresh from the cow, but before it reaches the creamery it is alive with germs, millions to the cubic inch, and it is sent back to the farm scarcely fit for any kind of self-respecting stock. Day after tomorrow the same luck, with several repetitions through the summer and occasionally through the winter, and there is quite a slice taken from the year's profits. Still, we find people who do not believe in germs and very likely they never will believe in them until they become as large as Norway rats, and can be killed with a club. Hot water and resolution in sufficient abundance will conquer this trouble.

Another fruitful source of trouble is the test. There are two sides to this problem, as there are in all cases involving a buyer and seller. There are, no doubt, some careless or dishonest men in the creamery business, and also very many unreasonable patrons of the creamery. The buyer, if inclined to be dishonest, can report a low test, as he knows that there are very few of his patrons that have a milk-testing apparatus. Even if he is honest he may cheat either the patron or himself by taking samples of milk only at irregular intervals. The patron may be dealt with justly and still not be satisfied when he learns that his test is lower than that of his next neighbor. He may be inclined to think that cows are cows, regardless of breed or feed, and he is too prone to lay the blame upon the wrong party.

A part of the patron's dissatisfaction arises from ignorance of the plan of paying for his products. He thinks that he is being paid for the amount of butter that can be made from his milk. He therefore churns a quantity of milk and finds that it makes, say six pounds of butter to the 100 pounds of milk, and he concludes that his test should have been six instead of five, and he is ready to cry "Thief." But this is all wrong, as the creameries are not buying butter or paying for milk on a butter basis. They are paying for fat only, while butter consists of fat, water, casein and salt. The creamery men are largely to blame for this misunderstanding, because many of them want their patrons to think that there is no advantage in making butter. Therefore, they keep them in ignorance of the overrun or the difference in weight of the fat and

the butter that can be made from it. It is up to them to make an honest explanation to complaining patrons.

Closely related to this lack of information is the inability of some to understand the figuring of the amount of money due the patron. A farmer teacher recently requested me to see if his check were figured correctly. If teachers fail, then it could be expected that many more need some instruction on what many would consider a very simple problem. Suppose there are 2,446 pounds of milk testing 3.8 per cent and the price is twenty-seven cents. Without going into a discussion of decimals, 2,446, multiplied by 3.8 gives 9,294.9, and this multiplied by twenty-seven gives 250,962.3 which means \$25.09.

There are various conditions that affect the test. A cow will give milk richer in fat for a short time after calving and for a longer time before going dry. Her milk will test low if she is below normal in condition. There is no known kind of feed or method of feeding that will permanently raise the test of a cow that is in normal condition. By normal condition is meant in good health for dairy work, something above the average. This test trouble, then, if the fault of the patron, can be overcome by a little better feeding, or if the fault of the cows, by casting his lot with better cows, "for better or for worse." W. H. Underwood.

The importance of Iowa as a dairy state is reflected in some figures just made public by Commissioner Wright in his annual report. During 1909 the farmers of Iowa and the creameries made 101,905,313 pounds of butter, using in making it 413,797,149 pounds of milk and 279,436,149 pounds of cream. Of this amount 3,513,644 pounds were sold to patrons and 6,866,853 pounds were sold in Iowa. In number of cows reported by dairies Dubuque county leads, reports from there showing a total of 58,181. Polk county is second with 53,000 and Woodbury third with 48,900. In butter shipped out of the state Woodbury leads with 5,771,198 pounds. Jones county is second with 4,637,289 pounds and Polk is third with 4,183,870 pounds.

According to the decision of Prof. L. E. Taft of Michigan Agricultural College, William Strong of Kalamazoo has raised the most nearly perfect ear of corn ever grown, the ear scoring 97 points. The highest score previously recorded was that made at the Omaha Corn Show two years ago, when an ear of corn produced by an Indiana farmer scored 94 points.

J. E. Line, a farmer at Cereal, Canadian county, Oklahoma, feels that his alfalfa patch has grown so valuable that he is afraid to leave it out nights. He sold fifty-three and a half bushels of alfalfa seed to F. A. Waldo of El Reno for \$535 cash.

*Fairview, Ia., 3/10/10
Any Separator Mfg.
Anywhere.
Dear Sir: Will you make me the same proposition in regard to your separator that the Iowa Separator Co. offer on theirs? A prompt reply will be appreciated. Yours truly,
A. Wise,
Dairy Farmer.*

Here is the way Anybody can tell about a Cream Separator

Here is Something Every Farmer Should Know

If you can find any other separator that under the same conditions will skim to its rated capacity as closely as the double cored IOWA, we will make you a present of one of our machines.

Doesn't that tell you something? Doesn't it mean that if you can get some other separator manufacturer to put his machine up against the

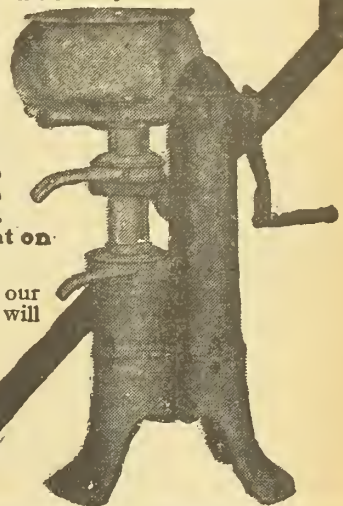
IOWA DAIRY SEPARATOR

on the same proposition, that you get a separator, either his or ours, for nothing? Try to get some or all of the other manufacturers to make you the offer that we do. If they won't do it, you know positively what separator is considered the best by the makers of separators—men who ought to know. Their answer to you will be your guide in buying a separator if you want the best. We are the largest separator manufacturers in the World and are the only factory that makes all the parts that go into the separator.

The IOWA skims closest, turns easiest, cleans easiest and wears longest, and we can prove it to you. Give us a chance to show you right on your own farm.

Ask our dealer and write us to-day for our free book of inside information. It will surprise you.

Iowa Dairy Separator Co.
113 Bridge St., Waterloo, Iowa



Increases Milk Values



Government tests prove that the sooner milk is cooled, the longer it will stay pure and sweet. Milk cooled to the temperature of cold water with a "Chilly King" Cooler is cleaner, stands a longer haul, brings a better price AND MAKES READIER SALES than when cooled with any other cooler. The cooling water, entering the coil at the bottom and leaving at the top, the milk, entering at the top and flowing in a film over the outside, must, before entering the cans, take the temperature of the cold incoming water. Built of heavy copper, tinned throughout with 97% pure tin, and without seams or corners, it is easily cleaned and absolutely sanitary. Occupies floor space but 24 inches square and Protective Hood completely incases entire coil. Made in capacities to suit any dairy. Write today for free trial offer.

The Chas. Skidd Mfg. Co.,
1010 Milwaukee Ave., Kenosha, Wis.



An Empire Cream Separator Pays Big Dividends For a Lifetime

THAT is why the demand for Empires is increasing more rapidly than for any other make of separators. Years of service have proved their worth. Almost any separator may give fair service for a little while—but only Empire construction, Empire materials and Empire workmanship can stand the strain twice a day, year after year. Empires are easy to turn, easy to clean and do perfect skimming, not for a month or year only but for many years. The first Empires sold, nearly 20 years ago are doing fine work, giving satisfaction today. That's why all Empires are backed by the liberal Empire Guarantee—as good as a Government Bond.

Note The Simple Empire Construction—study the cross-section view shown here of the Empire Disc. The same general design is used in the Frictionless Empire also. You don't need to be much of a mechanic to find right here the reasons for Empire ease of turning and long service.

On the spindle at the lower end is cut a worm screw which meshes with the worm wheel. This worm wheel is on a pinion shaft which is turned by a cog. The cog meshes with a large drive wheel which the operator turns by a crank. Immediately below the bowl around the spindle is the upper bearing and at the lower end or point of the spindle is the lower bearing.

That's all there is to the driving part of an Empire. That's why it seems like play to turn an Empire after using any other separator. If the wife, boy or girl is to do the separating that should mean much to you.

Ease of Cleaning Means First Grade Cream

All Empire users get highest price for cream or butter because Empire bowls are sanitary—no corners, slots or crevices in which old cream will stick in spite of washing and taint the next skimming, as in ordinary separators. The bowl of the Frictionless Empire and of the Empire Disc has few parts, all parts smooth and cleaned as easily and thoroughly as saucers.

Different Styles—Widest Choice

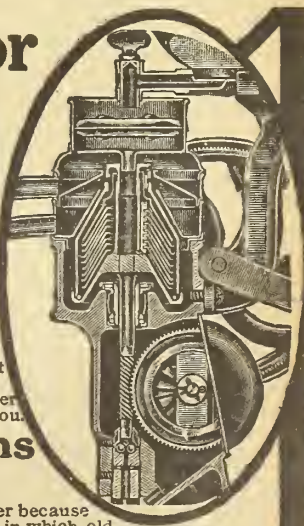
Other manufacturers have but one style to offer you. Come to headquarters where the different standard styles are made, and where each style is made better than anywhere else. And we manufacture a full range of sizes in each style, giving you double the choice that others offer.

Dairy Book Free Write today for the Empire Book, the fairest, most impartial cream separator book ever published. As it describes different kinds without prejudice, it will enable you to select the style that will make the most money for you. No cow owner should miss this book. Send postal now.


EMPIRE CREAM SEPARATOR CO.

Dept. G, 1225 Wabash Ave., Chicago, Ill.

Factory, Bloomfield, N. J.



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RELIABLE FARM PUMPS

will insure a generous supply of water when and where you want it, no matter where the well or spring may be located. They are durably made, moderately priced and cost little to keep in order. Built to meet every condition and service. Write for our free book.

"Water Supply for the Home"

It will tell you how best to solve water supply problems—pumps \$3.00 to \$300.

When you buy a pump see that it bears the name "GOULDS." It is a guarantee of satisfaction.

THE GOULDS MFG. COMPANY
No. 96 West Fall St., Seneca Falls, N.Y.

SEED CORN



We have over 1,000 bu. of the best Yellow Dent Seed Corn ever offered the intelligent farmer. Every ear is carefully selected before shipment. All our corn is grown under our own supervision and will test better than 98%.

We guarantee a 95% germination test. Our corn at \$3 per bushel (shipped in new sacks) is the best value in seed corn offered. Send today for a sample shipment. Address

STOECKER SEED COMPANY
PEORIA, ILLINOIS.

Established 1863.
We operate our own seed farm.

ONE MILLION GENUINE SPECIOSA CATALPA GIVEN FREE

TO ADVERTISE THE GENUINE SPECIOSA CATALPA.

WRITE for this offer and enclose 2c. stamp for our new 34-page illustrated booklet on Speciosa Catalpa growing.

THE WINFIELD NURSERY COMPANY
J. Moncrief, Pres. Winfield, Kansas.

SWEDISH SELECT OATS

Pure, Re-cleaned Northern Seed. The great Oats of the Corn Belt. \$1.00 per bushel in twenty-five-bushel lots; \$1.25 per bushel in ten-bushel lots.

THE SUMMERS SEED HOUSE, Malvern, Ia.

EAR SEED CORN

PRIDE of South Dakota Early Yellow Dent, Early Snow Flake White Dent, both good yielders; was fully matured and dry before any freeze. Will germinate stronger and better than the 1908 crop. Every bushel guaranteed or money and freight refunded; \$2.50 per bushel. 10-cent stamp gets sample ear.

C. S. BOVEE, ELK POINT, SO. DAKOTA.

I SHOW YOU MISSOURI SEED CORN

I OFFER 300 bushels Silver Mine, 40 bushels Early Iowa Silver Mine, 80 bushels St. Charles White, at \$2 per bushel. Corn sold in the ear in sacks free. Guaranteed to be extra strong in vitality. Joseph R. Miller, Rock Port, Atchison County, Mo.

250 STRAWBERRY PLANTS \$1

CHOICE of Senator Dunlap, Warfield, Crescent or Excelsior. Send for my Free Illustrated Strawberry Book. THE WILDHAGEN STRAWBERRY BEDS, WATERLOO, IA.

\$3 A BUSHEL---REID'S YELLOW DENT

Grown in 1908. Selected, graded, tested, ready to plant and guaranteed to grow. Raised on my own farm. Tests 95 per cent. Send orders to J. J. O'LAUGHLIN, ROME, IOWA.

PRIZE-WINNING SEED CORN

Tests 90 and 100 per cent.

PURE KIERSON OATS
and Field Seeds. Write for catalog and prices.

AYE BROS., Second Street, BLAIR, NEB.

Horticulture

THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

GROWING GARDEN CARROTS.

Carrots thrive best in warm, sandy loam, which has been heavily manured the previous season, but they may also be grown successfully on any fairly mellow soil. Fresh manure should always be avoided, as it causes the roots to branch, or be forked, as it is commonly called.

For an early crop the seed may be sown quite early in the spring in drills fifteen inches apart and one-half inch deep. Sow the seed quite thick and firm the soil well over the seed, as the seed is quite slow to germinate, and if the soil is dry it may fail to come up so often a second sowing must be made.

For fall and winter use the seed need not be sown until the end of May, for if the seed is sown early the roots will be overgrown and poor in quality. As soon as the plants are well up commence to stir the soil, and when well started thin out to stand three inches apart in the rows. If you wish smooth and well-formed roots they must be sown on mellow soil and receive frequent cultivations during the growing season. Never allow the weeds to get a start, as that would mean only a part crop. Before severe fall frosts take up all the roots and store them in the cellar.

For table use such varieties as Oxheart, Danvers or Chantenay give the best satisfaction. These are half-long or stump-rooted varieties. They are easy to dig and are fully as good in quality as the long varieties. The practice of growing carrots for horses and stock should be encouraged, as they make an excellent addition to the usual ration of dry feed. They are especially valuable for horses, as they act as a sort of tonic and will usually give horses a good appearance.

For this purpose use the field carrots. Enormous crops can be grown, 600 to 700 bushels per acre being nothing unusual. The seed should be sown in rows about thirty inches apart, to permit horse cultivation, and the plants should be thinned out to stand from five to seven inches apart. For field culture two pounds of seed per acre is sufficient.

SETTING STRAWBERRY PLANTS

"How far apart shall I put strawberry rows?" This question comes from one of the very large class of new fruit growers, who have not studied the several systems of culture.

The common method is the one he will naturally adopt. Put the rows four feet apart and the plants sixteen inches in the row. This plan contemplates the formation of a matted row two feet wide, which will leave a picking path of the same width between the rows. This is the system by which the bulk of the strawberry crop is grown. The hill system differs from this in putting the rows closer and cutting off all runners. The aim of this is rather for quality than quantity. It is adopted by those who have special markets or those who prefer fine fruit, even if the growing of it cannot be made profitable financially.

In the matted-row system much depends upon getting a good start. That is, the plants should be good, the soil in proper shape and the weather conditions favorable, so that an even stand may be secured. It is very discouraging work, when half the plants fail to grow, and you have to cultivate a lot of dead space. It is not profitable to do that, and it is better to plow up the patch and plant corn and start fresh the next year. But when you get a good start, with four-fifths to nine-tenths of the plants growing, the battle is half won. There is much to do yet, but you have made the main point, without which no other work can win.

The culture must be attended to and the important item of spacing the plants after the runners begin to

grow. Let the new plants set about three inches apart. And after you get a bed two feet wide remove all extra plants and runners. This you must do, for unaided, nature will produce so many plants in her blind zeal, that they cannot possibly bear fruit.

WOOD ASHES ON FRUIT.

A subscriber comes with this question: "I have, during the winter, piled wood ashes from my heating and kitchen stoves along a row of choice grapevines. Is there any danger of injuring the vines?"

There is danger without doubt. If you have been using hard wood, there is more danger than if the fuel has been soft wood. Hardwood ashes are very strong and with the coming of spring rains, the roots of your grapes will get a dose of lye, unnatural and unhealthy. We would remove the ashes, and scatter them thinly in the garden, or an adjoining field, where they may be plowed under and thoroughly mixed with the soil. Ashes upon fruit, should be used sparingly and with consideration of the needs of the special soil. And it is never well to apply heavily close about the roots of fruit trees or plants. Ashes are useful upon light soils, and are best mixed with stable manure and well incorporated with the soil before crops are sown or fruits planted.

By the injudicious application of



Do You Spray?

Tens of thousands of trees sprayed with Swift's Arsenate of Lead produced last year *not one* wormy apple. Innumerable farmers have greatly increased both quantity and quality of yield from vegetables and fruits by spraying with Swift's. You are standing in your own light if you don't take advantage of this wonderful insecticide. One spraying with Swift's outlasts two to four sprayings with other materials because it takes a torrential rain to wash it off. It can't burn or scorch. It doesn't clog the pump. It mixes readily with water and stays in suspension. It is fatal to every leaf-eating pest.

Send for valuable book on leaf-eating insects. Give your dealer's name.

Merrimac Chemical Co., 41 Broad Street, Boston, Mass.

CRILL THE SEED CORN MAN

ELK POINT, S. DAKOTA

HAS GOOD NEWS FOR IOWA FARMERS

NORTHERN KINDS.					CENTRAL KINDS.				
Dakota Gold Mine	100	Days	Test	85%	Iowa Gold Mine	110	Days	Test	80%
Dakota Silver Mine	100	"	"	90%	Dakota Leaming	110	"	"	90%
Minnesota 13	90	"	"	85%	Reid's Yellow Dent	120	"	"	85%
Early Murdock	100	"	"	85%	Clark's Mastodon	120	"	"	80%
Strawberry	90	"	"	80%	L'fellow Whitecap	100	"	"	85%
All Dakota-grown, carefully-selected seed corn.					Quick shipment. Shelled seed				
\$2.50 per bu. Ear seed \$3.00 per bu.					L. N. Crill Seed Co., Elk Point, S. Dak.				

All Dakota-grown, carefully-selected seed corn. Quick shipment. Shelled seed \$2.50 per bu. Ear seed \$3.00 per bu.

L. N. Crill Seed Co., Elk Point, S. Dak.

SEED CORN

Guaranteed first-class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. **J. B. Armstrong & Son, Shenandoah, Ia.**

SEED CORN

seed flax, garden seeds, etc. Catalog free.

We are the exclusive agents for H. J. Goddard's "SILVER KING White Dent," grown, selected and tested by Mr. Goddard, who originated this wonderful variety. Endorsed by state authorities everywhere. Try our hardy northern-grown seed corn. Clovers, timothy, alsike, mixed timothy and alsike, "primost" wilt-proof.

THE ADAMS SEED CO., Box 1, Decorah, Iowa.

ALMOST SOLD OUT OF MOORE'S HIGH-YIELDING REID'S YELLOW DENT
BUT we have a splendid supply of 1908 crop Silver Mine (white) that tests 95%, and we ship it subject to inspection and test—your money back if it doesn't suit you. Prices for select ear seed, testing 94%, or we take it back; \$4 per bu.; 5 bu. or more at \$3 per bu.; 10 bu. or more at \$2.75 per bu. Shelled seed, same test guaranteed, \$2 per bu. This is fine seed and will not last long. Rush an order. We also offer Hoady Butcher (early) at \$2.50 for ear seed, \$2 for shelled, test 94%.

C. Moore & Son, Kellerton, Iowa.



SLIDING CORD IN THE BACK WHICH EQUALIZES STRAIN

The whiffletree on your buggy works on a pivot to equalize the strain on the breast collar.

SHIRLEY PRESIDENT SUSPENDERS

have a sliding cord in the back to equalize the strain on your shoulders and trouser buttons.

"Shirley Presidents" give comfort and longer wear because no one part has to stand all the strain.

Made in Extra Heavy for hard work; Medium and Light Weights for dress; Extra Lengths for tall men.

50c from your dealer or from us.

Guarantee ticket on every pair—Get them today.

THE C. A. EDGARTON MFG. CO.
804 Main Street Shirley, Mass.

Guaranteed Ensilage Cutter BLIZZARD

Sold on merit backed by 33 years' success. Proved strongest, most durable, smoothest running. Cuts green or dry feed and elevates any height. Knives adjustable at any time. Perfect construction throughout. Mounted or unmounted. Ask for free book, "Why Silage Pays."

Write for New Catalogue Free

Jos. Dick Mfg. Co.
1439 W. Tuscarawas St. Canton, Ohio

strong ashes, we have seen strawberries and vegetables ruined. Upon rich, well-maintained soils, ashes are not needed. Used upon cold, sour land they help to give it tone. Coal ashes, as a rule, have no fertilizing elements, but they are often used as a mulch about currant and gooseberry bushes with good effect.

SPRAYING FOR CODLING MOTH.

To the Editor of The Homestead:

The codling moth and its control in the apple orchard is a matter of paramount, economic importance since this is the most serious pest of the apple crop. The moth in its larval stage is a chewing insect and hence must be controlled by a poison. The eggs of the first brood are generally laid on the leaves surrounding the apple crop. The moth in its larval worms hatch—just at the time the apples are setting, they immediately seek a hiding place. This is in almost every case the calyx cup at the blossom end of the apple, which has not yet closed. From this point the worms attempt to eat their way into the apple. If the poison is placed there first the life of the worm will be short, and for this reason prompt and thorough spraying is essential.

The calyx cup on the young apple is a small hollow space, which, in the early stages of development, is surrounded by a circle of thick fleshy stamens. As the apple grows the cup will be almost completely roofed over by the five small, green calyx leaves. It is important, therefore, that the spray poison be introduced at an early stage, just after the petals fall from the flowers. It is also necessary that this poison be applied with considerable force and directed straight down into the blossoms so as to reach the very bottom of the cup beneath the thick protecting roof of stamens.

It is generally advisable to spray the orchard twice within ten days after the petals first start to fall to insure reaching every blossom. It is necessary that a driving mist spray be delivered with the nozzle held a foot or two from the blossoms. A second larval brood appears late in July or early in August and another spraying should be made at that time to fully control the pest.

The essential spraying apparatus to control codling moths, includes a pump strong enough to furnish 125 to 200 pounds pressure. With whatever type pump is employed a ten-foot bamboo pole, bent at the upper end, and supplied with a cut-off at the bottom, is needed. Also provide at least twenty-five feet of hose. The nozzle should be large and of the double-faced type. Good work cannot be done without a tower or platform on the spray wagon high enough to allow the operator to spray down from a level with the top of the tree. From this raised position he can direct the spray in all directions and reach all parts of the tree.

Either Paris green or arsenate of lead poison may be used as the spray material. Paris green is prepared by adding one pound to 100 to 150 gallons of water depending on the purity of the chemical, with two pounds of lime to act as a neutralizer. Arsenate of lead may be used at the rate of four to six pounds in 100 gallons of water, according to the strength of the compound.

Arsenate of lead is fast taking the place of Paris green in many places. Its chief advantage over Paris green lies in the fact that being finer it remains in suspension in the liquid longer and does not settle so rapidly. The initial cost of 100 gallons of arsenate of lead is greater than the same amount of Paris green but this is made up in the long run due to fewer necessary applications.

H. D. White.

MULCHING LATE POTATOES.

To the Editor of The Homestead:

Several readers of this paper have lately asked us to tell them what we know about raising potatoes under mulch. The writer of this has been raising potatoes by that plan for the last dozen years, and what we have to say will be from an experience covering that length of time.

Mulching potatoes is an art in itself

—that is putting the mulching on. Whether or not to mulch a certain patch, and when to mulch it, is a matter of judgment. If the land is low or poorly drained if otherwise, we would not use mulching at all. Much good seed has been wasted in the past learning this much about mulching potatoes, and a great many good stands secured under a mulch during a dry time have been ruined later on in the season because the land was poorly drained and the mulch served to make matters worse.

We always select an unusually well-drained piece of land on which to raise mulched potatoes, if possible a hillside or a good slope. One is sure the surplus water will get away. The object of mulching is to hold the moisture, and if it is put on with the ground moist, you may be sure it will do it, even if the soil is of a very dry order to start with, unless you get your mulching too thin.

It is never a good idea to plant potatoes to be mulched very deep. Two-thirds of the usual depth of planting for cultivation, is about right. Don't imagine, too, that mulching will help out a poor job of preparing the ground

and covering the seed. Do that just as thoroughly as if expecting to cultivate the crop; if anything, a little more thoroughly. If the patch is harrowed as fine as a garden after planting the seed, and before putting the mulch on, all the better.

The art of mulching comes in getting it on the ground even and in getting it on just the right thickness. As hay is unloaded from a rack on the ground, it naturally comes in forks. These must be well shook up and spread out or there will be thick and thin places. Probably four out of five make the mistake of getting their mulching on too thin. It may look like a load covers a small space, if the mulch is put eight or ten inches deep, but that is thin enough. Remember that it soon settles, and during the heat of July and August, it is none too deep. If a person has enough old hay to cover two-thirds of the patch right, or cover it all to a depth that may be considered sufficient, it is much better to cover only two-thirds of the patch and cultivate what remains uncovered. The greatest mistake we ever made was to cover a large patch thin—making what old hay we had go a long


ways. Thin mulching soon dries through, and then the potatoes are worse off for being mulched, since they cannot be cultivated.

Coarse straw makes fairly good mulching, but old prairie hay is the best of all. Most small grain straw is broken up too fine and has too much seed of grain and weeds in it that will grow in the patch, sometimes forming a sod cover over the mulching. Coarse wheat straw is the best of all straw, with flax straw second best. The very best mulch of all is prairie hay.

In a dry season one is not liable to fail to grow good potatoes under mulch. Wet weather has always hurt our mulched potatoes more than the drouth, but since learning to select a dry, well-drained piece of land, wet weather has not bothered us. Any reader of this paper who has a few piles of tops and bottoms in their hay meadow, or old hay anywhere, will get good returns from it by using it as a cover for their potato patch. The time to put it on is as soon after planting as possible, never so long after that a few of the plants are beginning to show through the ground.

Henry Hatch.

DAYS MEAN DOLLARS



WHEN YOUR GRAIN IS RIPE

WHAT of the harvest time? Will you be ready? The Spring rush is on. Each day, for several months to come, will find you more and more pressed for time.

Look over your harvesting facilities now. Nothing else is so important. Make sure that harvest time will find you prepared to crowd every hour full of rapid work, well done.

It is very important to have your fields properly fertilized; and it is important that the seed bed be properly prepared before seeding time. It is also important that the best quality of seed be selected and drilled into the ground evenly and at a uniform depth; in other words, all the preparatory work involved in growing wheat and other grain crops is important and, therefore, should be carefully done—but no matter how carefully you may do the preparatory work, if the rush of harvest takes you unawares and you plunge into your fields with inadequate equipment, more or less loss is inevitable, for delays in the harvest fields are costly. Therefore, it behooves you to make sure that your harvesting machines are ready to go into the field. If repairs are needed, now is the time to secure them—if a new machine is needed, now is the time to decide which one to purchase.

Remember what a vital part the harvesting machine will play in your returns on the year's business. There is too much at stake for you to take the slightest risk. It isn't necessary. You can insure yourself against loss. Choose your equipment from the I H C line of machines.

Thousands of farmers are secure in the prospect of reaping all the profit that their grain will represent in the fields because they have chosen machines from one of these six lines—

**Deering McCormick Osborne
Champion Milwaukee Plano**

Take your choice from these and be sure of getting the most work done in the shortest time at lowest cost.

You cannot get a machine under any other name that will pay you such big dividends on the investment.

Bear in mind that if you attempt to pull through another harvest with machines that are old and worn

there will be heavy loss of time and grain. Perhaps a breakage will occur on the most critical day, and unless it is an I H C machine you may have to wait long for repairs.

To put your money into a machine of unknown worth or doubtful character would be equally shortsighted.

The test of time, the successful experience of thousands of farmers, shows you the way to sure results—an I H C.

Among the six styles you are certain of finding one that will just meet your requirements in every particular. And whether the conditions for harvest be favorable or unfavorable, whether you have a fine, uniform stand or a beaten down, tangled crop to reap, the work will go forward smoothly, rapidly, uninterruptedly, netting you the maximum profit. In case an accident should happen I H C interchangeable parts are always quickly at hand through the nearby I H C dealer.

Every I H C dealer carries a stock of repairs that fit when repairs are needed.

Repairs having the I H C standard of excellence can be secured at almost every cross roads or village. This availability is not only a great convenience, but also saves valuable time which means money to the busy farmer in case of accident in the harvest field.

And don't experiment on binder twine. Some low grade fibre has been used in the manufacture of binder twine for the harvest of 1910, and it is unnecessary to state that those who attempt to use twine made from low grade Manila fibre will have trouble.

It is to the farmer's interest always to keep a weather eye on the future, and in this particular instance to secure his twine supply, whether it be Sisal or Manila, at as early a date as possible. Get one of the seven perfectly dependable brands of twine and be sure. Choose Deering, Champion, McCormick, Milwaukee, Osborne, Plano or International—in Sisal, Standard, Manila and Pure Manila brands.

If it is not convenient to see an International dealer promptly, write for full information and the catalogues you want.

INTERNATIONAL HARVESTER COMPANY OF AMERICA
(Incorporated)
CHICAGO U S A



LOOK FOR THE I. H. C. TRADE MARK. IT IS A SEAL OF EXCELLENCE AND A GUARANTEE OF QUALITY

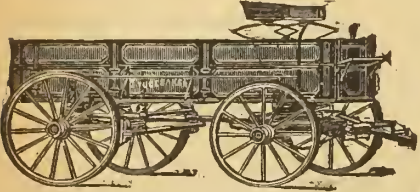
DON'T BUY GASOLINE ENGINES

UNTIL YOU INVESTIGATE "THE MASTER WORKMAN," a two-cylinder gasoline, corrosion proof engine, with greater durability. Costly engine. SEND FOR CATALOGUE. THE TEMPLE ENGINE MFG. CO., 436 West 15th St., Chicago. THIS IS OUR FIFTY SIXTH YEAR.

You can rely on a Studebaker Wagon or Buggy

FOR 58 years the name Studebaker has stood for honest, reliable work. You can have no better guarantee of good, sound value and satisfactory service than the simple assurance that "Studebaker Made It."

More than one million Studebakers are in actual use today, many of them from 25 to 35 years in service with little or no repairs.



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Largest Wagon and Buggy Builders in the World

When in Need of a Wagon or Buggy
See the Studebaker Dealer

THE PRODUCT OF EXPERIENCE AND HONOR

20 YEARS EXPERIENCE has taught me what is best in Gasoline Engine Construction. The result of that knowledge is

THE CALDWELL SPECIAL

I will ship you an engine and let you set it alongside of any high priced engine on the market and if it doesn't do as good work as any engine built you don't need to keep it—send it back at my expense.

My engines are fully guaranteed for five years, sent on sixty days free trial if you wish. Write for catalog.

CALDWELL-HALLOWELL MFG. CO.
507 Commercial St.
Waterloo, Iowa.

Vitaline

FOR STOCK

This great remedy will cure the worst cases of Fistula of the Withers, Poll Evil, Distemper, Mange, Grease Heel, Big Leg, Big Head, etc., and will act as a preventive for cholera and all contagious diseases. We have hundreds of the biggest stock men in the country who say it is the greatest remedy ever discovered.

Write today for our free trial offer and a copy of our booklet.

INCREASING PROFITS FROM RAISING STOCK

Sent Free to Stock Raisers

Vitaline is the greatest upbuilder of the animal system that has ever been discovered. It fits the animal to combat disease—its use has saved thousands of dollars for stock raisers and will do the same for you. Write

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Marquardt Bldg., Des Moines, Iowa.

POTATO DIGGER

The Hoover

Does perfect work. Fully guaranteed. Write for illustrated catalogue of Diggers, Pickers and Sorters.

THE HOOVER MFG. CO., Box No. 41, Avery, Ohio.

Transfer points—Buffalo, N. Y.; Detroit, Mich.; St. Paul, Minn.; Marshalltown, Ia.; Idaho Falls, Id.; Portland, Ore.; Spokane, Wash.; Winnipeg, Man.; Hamilton, Ont.; Fond du Lac, Wis.

When writing mention this paper.

DAY BY DAY

AGRICOLA

Not how late is it safe to plant corn, but how early, is what puzzled farmers here this spring. The ground was ready, the farmers were ready, the weather was fine, but the almanac was as backward as if the weather were bad. Should a cold, wet spell come after planting gloom would drive away delight. But it is the first season that we have had to hold back—generally it is a rush to keep up with our work.

To tell a man that he does not know beans is considered uncomplimentary, but the town chap who decided that he would plant and tend a garden for his health's sake found he did not understand beanology completely. The beans all came up wrong end up, he said, and he had the trouble to pull them up and plant them bean side down, and still they did not grow after that.

I sent an order to a noted seed house for some corn of an early variety, enclosing check to pay for same as per catalog quotation. A prompt reply informed me that the price was advanced from \$2.50 to \$4 per bushel, and asked whether I would send more money or take the value of the remittance at the new price. But I found that the check was cashed without waiting for me to reply. I am inclined to think that some other seedsmen will receive my future orders.

Women like a little pin money of their own without the formality of asking the man of the house for it and telling every time for what purpose it is needed. Mrs. Agricola finds the egg money nice for that purpose this spring, as the hens find their own living and give her more than a dollar's worth of eggs daily. I have enough faults, but never yet used the wife's egg money for the purchase of "spitting tobacco."

Pieplant sauce and pie go well early in the spring and I am glad to read that here and there a doctor says that pie is good. It is the great American dessert. Asparagus is another delicacy which is greatly enjoyed by our family.

It is quite common here for farmers to have a force-head windmill pump, but few of them seem to make use of it for washing buggies. All that is needed is a hose attached to the pump and a good nozzle at the end. Let the winds of heaven help you keep things clean.

One small thing will make a man unhappy, but he demands several to make him happy. That hardly seems like a square deal.

It is not only latitude, but altitude that affects the ripening of corn. Southern corn grown at a high elevation will ripen earlier when taken north than that grown in the same latitude in the lowlands. Corn grown in valley land seems to acquire a habit of lingering.

There are cheerful liars and there are gloomy truth-tellers. What the world needs is cheerful tellers of good tidings.

One of the long-range weather prophets who has some way a large list of credulous believers in his forecasts admits that March was not the wet month which he predicted, but it was warm if it were not wet, and the warmth he ascribes to the approaching comet. No better proof of his ignorance could possibly be furnished. When this same comet made its visit in 1456 the Turks had recently taken Constantinople and all Europe was in such superstitious terror that to their prayers they added, "Lord save us from the devil, the Turk and the comet."

No farmer can have a feeling of self-respect whose fences are allowed to remain out of repair. He may have the big head and make his voice heard among the street corner reformers, but his farm cheapens his reputation

and shows his vanity is greater than his merit.

Did you sow timothy and clover seed this spring? It was a good genius which prompted you to do so, but it now looks as if the dry weather would be fatal to small seeds.

Two of the White Holland turkeys have made nests 100 rods from home "as the crow flies." This applies too literally to be acceptable, for the crows fly to the spot and watch for the chance to steal the eggs, while the owner of the turkeys, not having any flying machine, has to go around by the road and is sometimes too late.

One great secret of success in cement work is the thorough mixing of the sand and cement before wetting it. Another is to use reinforcement when it is needed.

I notice that an agricultural professor in Illinois has convinced himself that he is wiser and more reliable than Secretary Wilson.

The cry of "back to the land" comes most frequently from city men who object to paying high prices for food, but do not know whether a bushel of corn would plant seven acres or an acre needs seven bushels of seed.

Some of the farmers in this county plant their corn three feet and eight inches apart each way, and others three feet and six inches. If the experiments at the Illinois station are reliable it is better to plant close, even as close as three feet each way, if yield alone is considered. About three feet and six inches is the best distance with the kind of cultivators used here.

Don't select a gasoline engine with very many rods and pipes and pumps and gimcracks. The fewer the parts the fewer the things to wear and get out of order.

I ground some chick feed the other day—barley, oats and sunflower seed—and ground it coarse. The boss of the poultry department thinks it is all right.

I find that barb wire sold this spring is a softer and more flexible wire than any I have before bought. Which is better I do not know. I have some old painted wire that a boy helped me string and he is now a grandfather, so I know it was a lasting wire, for it is still doing good service.

THE NEED OF GOOD ROADS.

The exultation with which the local press received the news that Lexington, Mo., recently, with the aid of the "embattled farmers" of the neighborhood, voted \$120,000 in bonds for the purpose of building roads in a road district eight miles square, will recall to those who can look back that distance to the time when the counties and towns in the same territory were enthusiastically voting bonds to aid in the construction of railroads. The railroads have contributed their share to the development of the West. The reaction in sentiment which has resulted from the local loss of control of those bond-aided railroads has not affected the proposition that every dollar invested in them has been repaid many times over.

One of the lessons learned in recent years in Missouri, as well as other states, however, is that the railroads alone do not meet the demands created by increased population and new industrial conditions. It has been found that good road communication between the farm and the railroad is only secondary to good communication between the local market and the centers of consumption. The vote of Lexington marks the beginning of a movement that promises important results not only for the Missouri farmer, but for all those who are in any degree dependent upon his products. Good roads mean cheaper hauls to market and must mean eventually a considerable lessening of the tax that now falls heavily upon the produce of the farm between the time when it is taken from the soil and the time when it reaches the ultimate consumer.—(Boston Newspaper.)

Ask your neighbor to subscribe for The Homestead.

GALVANITE TRIPLE ASPHALT COATED MICA PLATED ROOFING

A Healthy Roof

When your stomach is right, you don't know you've got one.

That's just the way with a Gal-Va-Nite Roof—you don't know it's there, because it never bothers you.

It doesn't require any medicine in the way of paint or patches, or you won't have any doctor bills for leaks or rotten places.

Gal-Va-Nite is made to stay right; the oils in it are kept there by a coating of mica on each side. Mica resists the weather better than other minerals, and is much lighter than gravel or crushed stone.

No roofing is easier to put on. Every roll contains cement, nails and careful instructions. Get your hammer and jackknife and you quickly do the job.

Use Gal-Va-Nite—do the job right.

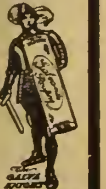
Ask for free samples and booklet.

Union Roofing & Mfg. Co.

Main Offices and Factory:

1115 to 1157 E. 7th St.,

ST. PAUL, MINNESOTA.



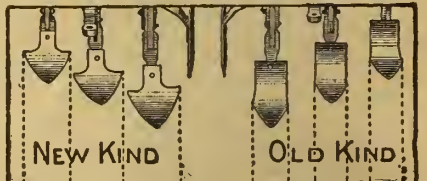
Satisfaction Guaranteed



Bale 3 Tons An Hour

easily and safely with an Auto-Fedan Hay Press. Only two men required to run it, thus saving one-third the cost of labor. There's nothing complicated to break and get out of order. Three-stroke, self-feed. Easy draft. Smooth, neat bales. Shipped on trial to responsible parties. Send for free catalog No. 62.

THE AUTO-FEDAN HAY PRESS CO.,
1562 W. Twelfth St., Kansas City, Mo.



Save the Corn Roots

BROTHER Farmer, if you'll let me, I will help you make money by using my surface and deep cultivator shovel. Will fit any round shank, cut all weeds, scour in any ground, save the corn roots and handle easy for boys and horses. Send for circular.

Chas. Burmeister, Sutherland, Ia.

WANTED AGENTS

In Every Township in Iowa and South Dakota to Write

Hail Insurance

ADDRESS
GERMAN INSURANCE CO.,
LEMARS, IOWA.

ALUNDUM GRINDER

STEEL FRAME—FOOT POWER Fully Guaranteed Pat'd
With Emery Dresser, Wrench, Mower Wheel Clamp, Alundum Wheels for sharpening Mower Knives, Tools, Saws, Disks, Shears, Skates, Etc. Alundum—the most wonderful sharpening substance known. So hard it cuts glass like a diamond, grinds ten times faster than emery without drawing temper. Price complete... \$9.50
WESTERN IMPLEMENT CO.
295 Park Street Port Washington, Wis.

Every Medicine Shell

Should have the famous
Kendall's Spavin Cure
The great emergency remedy. Cures Spavins, Ringbones, Curbs, Splints, Sprains, Lamenesses. All druggists sell it at \$1 a Bottle; 6 for \$5.
Book, "Diseases of the Horse," free
DR. E. J. KENDALL CO.,
Enosburg Falls, Vt.

The New Royal Pitless Scale
Sold on 30 days free trial. Our price the lowest. Catalogue and discounts. Address:
ZIMMERMAN STEEL CO.,
Dept. 31 Lone Tree, Iowa.

When writing mention this paper.

Cream Separators Rebuilt!

You are losing real money every day, if your cream separator isn't in perfect condition. A slight displacement of the bowl or a worn bushing may lose double the amount a new separator would cost you.

But you don't need a new separator. Although some running parts of a separator wear out easily, the frame and other main parts never wear. So why not use those that are all right, and merely replace the others. Your old separator can be made as good as new and you can pocket the big difference in cost.

\$40 to \$60 Saved!

We can save you fully that amount even though you could trade in your old separator on a new one.

You can send in your old separator, no matter what make it is, and we'll make it as good as new.

Don't Pay Us a Cent

You don't pay for repairs until you get the separator back. Then if you are not well satisfied with the work and the charge, don't pay the bill.

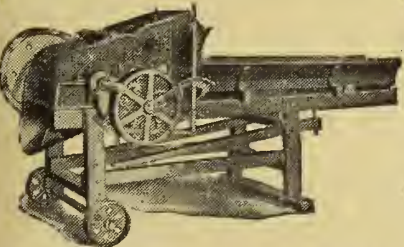
You can't lose on such an offer, so why hesitate? Every day's delay means more money lost. So write today for free information telling how to find out just how much cream your separator is losing and what parts cause the trouble.

Rebuilt Separators. We have a large line of rebuilt separators in all the standard makes. They're as good as new and cost far less. If you need another separator, write for price list. Our low prices will surprise you.

Chamberlain Machine Works
Dept. 103 WATERLOO, IOWA

The New GLOBE Silo Cutter

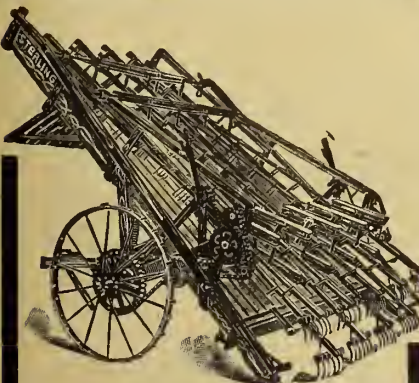
AFTER many years of experience in the manufacture of Feed Cutters, we have finally succeeded in getting up a machine which is absolutely safe and our machine is constructed so it does not require a man to feed, as other machines do. It has a double apron arrangement. The top apron is made up of two rollers with a chain apron running over same which draws the fodder into the press roller. The bottom apron also runs over the roller. This makes a strictly self-feeder and there is no danger of getting caught in the feed rollers.



The Globe Safety Self-Feed Ensilage and Silo Cutter.

The knives are 16 inches long, and the machine can be reversed while in motion by a lever. The machine is strong and durable and without doubt is the best safety self-feed machine on the market. Our catalog fully describes and illustrates our full line of ensilage and silo cutters; also our Globe stationary and portable gas engines, sawing machines, horse powers, etc. May we send you a copy? It's free.

Globe Foundry & Machine Co.,
Sheboygan, Wisconsin.



You will need help to take care of the 1910 Hay Crop which promises to be heavy and is certain to be valuable. You will have reliable help if you employ

Sterling Hay Tools

They are dependable and will enable you to crowd haying operations. We make Rake Bar Loaders, Cylinder Loaders, Side Delivery Rakes, Tedders and Sulky Rakes. Write to

STERLING MANUFACTURING CO., STERLING, ILLINOIS.

When writing mention this paper.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

CONSTITUTIONAL AND ACQUIRED CHARACTERISTICS.

To the Editor of The Homestead:

In the matter of breeding this question becomes of importance, and as it is not always clearly understood, a brief discussion may be of value. In the first place, it should be set down as one of nature's axioms, that characteristics born with the individual may be transmitted to its offspring. Later developments, such as changes or deformities arising from accident or otherwise, will have no effect on coming generations. This is true in the poultry world as well as in the entire animal kingdom. For example, a bird with a naturally lop-sided or side-sprigged comb, or disqualified in any way, is quite unfit to use as a breeder, because such constitutional faults are directly transmissible, and not easily bred out of a flock. But a cock or cockerel with an originally correct comb, may by fighting or frostbite, or other outside causes have this once admirable comb ruined in appearance, and yet, other things being equal, be just as fit for a breeder as before the marring accidents occurred.

A good example of this general law is found in the foolish and cruel fad which prevailed not so very long ago, of docking horses' tails. This became quite common in the fashionable world. Do we find short tails in the next generation of colts? Not an instance, so far as I know has been reported.

In the show room we often meet with the reverse of this proposition. "Faking" is the correction or hiding of constitutional defects. Feather-pulling; doctored combs; painted and bleached plumage are among the common practices of none too scrupulous exhibitors. These "doctored" birds, posing, perhaps, as prize winners, beguile innocent purchasers into paying high prices for what is seemingly choice stock, only to find themselves, later on, with flocks of disqualified chickens, the hidden defects revealing themselves with ugly unmistakableness in the next generation.

One instance of this comes to mind. A young married man, ambitious to achieve a competency for the support of his growing family, determined to take up poultry raising as a side line. He had good judgment, and resolved to go into the business in a right way, buying the best stock his means would permit, and increasing by slow and careful degrees. By dint of great economy he saved enough to buy a good start. At the state fair, a beautiful pen of White Wyandottes adorned with a blue ribbon caught his eye. This was the breed he had decided upon, and it seemed to him that he could not fail of success with such birds as a beginning. The price asked was more than he had laid aside for the venture, but at last he decided to take the pen, believing that the quality of the increase the second year would justify the expenditure. But alas for his hopes! The chicks were so thickly sprinkled with black feathers and flecked plumage as to be absolutely worthless as fancy stock. The owner had done a most thorough job of pulling out black feathers before the state fair, and his dishonesty stood revealed in all its nakedness. But the purchaser could obtain no redress. Discouraged, he sold his entire flock to the huckster, and I doubt whether he ever tried again.

The question arises whether sickness in the parent is transmissible. It is very generally believed, and with reason, that a severe attack of roup, for example, renders the bird open to objection as a breeder, because of the tendency to this disease that is liable to be transmitted. The disease itself cannot be transmitted, unless it is something constitutional, which few

diseases are. The sickness of the parent may be communicated to the chick, but it is just as possible to cure the chick as the parent. We are not arguing for the use of sick birds as breeders, only showing that the general law is not abrogated in such cases. It is the almost universal testimony of experienced breeders that the more rous they cured in their flocks the more rous they had to cure, and this not by inheritance, but from weakened vigor and thus a predisposition to disease. We quote:

Inasmuch as a prime requisite in our breeding stock is a natural inherent vigor, we should make a test of our breeding stock while young for this innate vigor. Now the only possible way to make this test is to subject the chicks so intended to some reasonable hardships, in order to weed out the weaklings. If in so testing we somewhat dwarf or stunt them in size, the matter is not of great importance, as this defect will be only accidental and acquired, and by the laws of nature will in no way affect their offspring—the offspring inheriting not their accidental and acquired qualities, but their pre-natal ones. But of course in the final selection of the breeders it is best to use those of fair size which have undergone hardships, for such will naturally be more vigorous and desirable, than those which have been dwarfed by the hardships.

Now, on the other hand, those chicks intended for the table or for market cannot be too carefully reared. They are not to be coddled, but everything should be done to husband their vigor for the sole application of it to digestion and the laying on of weight.

Mrs. S. B. Titterton.

—Mr. M. E. Birchard, of Hazleton, Iowa, advertises Single Comb White Leghorns on page 20. His particular offering is a breeding pen of four pullets and one cockerel. He has four separate lots each headed by a cockerel of show-winning record. Note the special prices quoted on these pens and if interested forward orders without delay. They cannot remain long unsold.

A MILLION Incubator Chicks DIE EVERY DAY

We have a HOME remedy that will positively prevent or cure any kind of bowel trouble in young chicks at any age. Send us the names of 5 to 8 of your friends that use incubators, and we will send you this information free, and allow you 25c for sending us the names. This will be worth \$100 to you this summer. Send the names today; the information is free.

Raisall Remedy Co., Blackwell, Okla.

Lightning Strikes the Unprotected Building

DON'T remain unprotected. You simply cannot afford to take chances any longer. Think of your family, and think of your property. You would never forgive yourself if the next storm picked your home or barn for destruction. Save on insurance premium too. Our system is endorsed by all who know. See our book for reports. We save you dealer's and agent's profits by selling

Direct From Factory

We'll save you from \$20.00 to \$50.00 and Guarantee perfect satisfaction. Following our complete directions any man puts it up easily.



Free Book

Tells just the things you ought to know about lightning and sure protection. Our liberal offer, guarantee and low prices will surprise you. We deal with no agents.

THE J. A. SCOTT COMPANY
Mrs. Pure Copper Cable Lightning Rods
Dept. P, Detroit, Mich.

WHITMAN'S HAY PRESS



40 Years Standard of the World
FINEST IN AMERICA
Yet costs no more than the ordinary kind
Let us prove that our New Model is the Strongest, Most Durable, Most Economical and Simplest Hay Press in the World—does the best work—has greatest capacity—saves time, labor and trouble—contains exclusive feature found in no other press—with or without self-feed, pull back and hopper condenser—fully guaranteed—we also make largest line of Ballers in the world—write for illustrated catalog
THE WHITMAN AGRICULTURAL COMPANY, 6911 S. Broadway, St. Louis, Mo.



PROF. WEST DODD

This man and that trade mark have revolutionized the meaning of the word lightning rod and made

Lightning Harmless

Prof. West Dodd's wonderful inventions, The D. & S. Woven Copper Cable Lightning Rod and D. & S. System of Installation, are acknowledged by leading fire insurance companies of the world to be the only safe and reliable protection against the terrible ravages of lightning.

Cuts your insurance bills

Spring and Summer storms are coming. Protect your home and the farm buildings. Make yourself, your family, your stock and your property safe.

D. & S. stands for that which is sound and reliable in lightning rod business. Send for catalogue and book, "The Laws and Nature of Lightning." Don't lock the door after the horse is stolen. Write to-day. A postal will bring both books free.

DODD & STRUTHERS,
417 Sixth Avenue, Des Moines, Iowa

A GOOD BROODER AT ACTUAL HALF PRICE

During this month we will send every purchaser of a **SURE HATCH BONDED INCUBATOR** one of our Brooders at actual Half Price. Every Sure Hatch Incubator is positively guaranteed to give satisfaction, and the guarantee is backed by a \$1,000,000 Surety Bond issued by the Bankers Surety Company of Cleveland, O. One of these bonds is actually placed in the hands of every purchaser of a Sure Hatch Incubator. 60 days free trial. If you want a good brooder for only Half Price, get in your order at once for this offer holds good only a short time.



\$7.55 Buys Best 140-Egg Incubator
Double case all over; best copper tank; nursery self-regulator. Best 140-chick brooder. \$45.00. Both ordered together \$11.50. Freight Prepaid. No machines at any price are better. Write for book today and save price and save waiting. Satisfaction guaranteed.
BELLE CITY INCUBATOR CO., Box 52 Racine, Wis

POINTERS.

—Mr. E. O. Dyvig, of Stanhope, Iowa, has an advertisement on this page, offering Silver Laced Wyandotte eggs at \$1 per fifteen, or \$4 per 100.

—Mrs. E. C. McCarthy, of Elliott, Iowa, is offering eggs from scored Rose Comb Rhode Island Reds at \$8 per 100. For prices on smaller lots see her advertisement on this page.

—Mr. G. A. Holland, of Rockford, Iowa, is offering in his advertisement on page 21, Buff Rock eggs at \$1 per fifteen, or \$5 per 100. Kindly mention this paper when sending in your order.

—On this page will be found the advertisement of Mr. W. B. Lloyd, of Kinmundy, Ill., announcing that he has for sale utility flocks of choice young birds at bargain prices. By "utility flocks," Mr. Lloyd means from six to twelve pullets with yearling cockerels. These he advises us are excellent birds well suited to farmers who want the best of this highly-popular breed.

—Mrs. J. E. Baxter, of Walnut Grove, Minn., breeds White Holland turkeys, Pekin ducks, Buff Cochins and Barred Plymouth Rock chickens. She is now prepared to ship eggs in large or small quantities. She does an immense poultry business and as the demand is very great, buyers will do well to send in their egg orders immediately. The prices are right and she gives good measure.

—The Alfalfadell Poultry Company advertise Buff Orpington eggs for sale on page 21 of this issue. The birds in the flocks of this company are from prize-winning stock at the greatest poultry shows not only of the United States, but of England as well. The company offer \$52 in cash prices to their patrons who buy eggs for hatching. Full particulars may be had from their catalog, for which write to the Alfalfadell Poultry Company, Box 429, Farnham, Neb.

—Mrs. C. A. Robinson, of Griswold, Iowa, breeder of White Wyandottes, whose advertisement will be found on this page, writes under recent date, saying: "I am offering eggs at reduced prices for the remainder of the season. I have an extra good pure-bred range flock headed by fine Dustin and White Quill males. Eggs are testing 90 per cent fertile. Parties wishing eggs of good quality that will hatch will do well to send their orders at once. Numbers for incubators can be furnished on short notice and strictly fresh eggs guaranteed."

—Mrs. W. I. Mouser, of Red Oak, Iowa, in sending in copy for her advertisement on this page, writes: "Since advertising in February, I have added a Tompkins pen, headed by one of the reddest Reds I ever saw, from a championship pen of 1909, of Lester Tompkins, mated to a pullet from his first-prize pen of 1909, and seven other Tompkins strain pullets. All of my birds have been selected for size, shape and color, as well as vigor and great egg production. Eggs tested 95 per cent fertile in March, and 98 per cent in April. I am placing orders every day and guarantee a hatch of nine chicks to a sitting. I make a specialty of the Single Comb Reds, so there is no danger of them being mixed." In writing, kindly mention The Homestead.

—Mr. W. A. Hartman, of Winterset, Iowa, breeds Barred Plymouth Rock poultry as advertised on page 21. The illustration which appears herewith is that of a first-prize cock at the Iowa State Poultry Show held at Des Moines in January, 1910. Mr. Hartman breeds the celebrated 219-egg strain of Barred



Plymouth Rocks. These birds win ribbons, as well as fill the egg basket. Mr. Hartman has been breeding Barred Plymouth Rocks for the past five years and from a flock of twelve females he has 250 special mated birds that he sells all eggs from. Mr. Hartman advises us that although he advertises in five other journals, two-thirds of his business is secured from his announcement in The Homestead.

DOGS.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

SCOTCH Collie pups by imported sires at \$10 to \$25 each. Send for sale list of brood bitches, open and bred. P. L. Savage, St. Charles, Illinois.

FOR SALE Pedigreed, rough-coated Scotch Collie pups, \$5 and \$7. Mrs. A. N. Bonnett, Birmingham, Iowa.

WYANDOTTES.

WHITE WYANDOTTE EGGS

FROM stock scoring 93 to 96 by Russell; many of them first-prize winners. From best pens, \$3 for 15; \$5 for 30. Range, \$1.50 for 15; \$5 for 105. Guaranteed fertility and safe delivery.

GEO. W. LIVINGSTON, MONROE, IOWA.

WHITE WYANDOTTE EGGS

FROM stay-white kind. Our birds are absolutely free from brass; good eyes and comb; very large, good shape; best of laying strain; eggs, \$1.50 per 15; \$2.25 per 30; \$6 per 100. Guarantee 75% to hatch or will replace at 1/2 price. A. J. Podendorf, Logan, Ia.

CHALKY WYANDOTTES WHITE

We pay express. Circular free. CEDAR LAWN POULTRY AND STOCK FARM, Fairfield, Neb.

WHITE Wyandottes of quality. This proves it. Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank. J. M. Erichson, Slater, Ia.

SILVER WYANDOTTES

Eggs, 15 for \$1; 45 for \$2.50; 100 for \$5. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3.15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

White Wyandottes Exclusively. Eggs from two pens scoring from 92 to 94 1/2 by Todd. Pen 1, \$2 per 15; pen 2, \$1.50 per 15; Flock, \$1.25 per 15. J. J. HAY, MINGO, IOWA.

Partridge Wyandottes A pen of selected females, grand penciling, rich mahogany, headed by 1st ekl. at Ia. State Fair. Eggs, \$1.50, 15. W. W. Neely, Greenfield, Iowa.

WYANDOTTES

White, Buff, Golden, S. Laced Eggs, 15, \$1.50; 30, \$2.50; 50, \$3.50; 100, \$6. A. L. Anderson, Indianola, Iowa.

Silver Laced Wyandottes Utility flocks of choice young birds at bargain prices. Send for list of offerings. Eggs for hatching, \$1 for 15. W. B. Lloyd, Kinmundy, Ill.

White Wyandottes Extra good range flock; best of layers; eggs balance of season, 100, \$4; 50, \$2.50. Incubator sittings a specialty. Mrs. C. A. Robinson, Griswold, Iowa.

White Wyandottes Extra good birds, true to type farm range, bred from birds scoring 92 to 95 1/2; satisfaction guaranteed. Eggs, \$1 per 15; \$2.50 for 50. Carl J. Hedberg, Boxholm, Ia.

WHITE WYANDOTTE EGGS

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MAPLE Lawn Poultry Farm. White Wyandottes. Eggs for hatching. Excellent winter layers. Farm range \$5, 100. Mrs. C. W. Bryant, Orchard, Ia.

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WHITE WYANDOTTE, standard bred, good in size, color and shape. Eggs \$1 for 15, \$1.75 for 30. Address Johnson Allen, Earlville, Iowa.

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BRED exclusively for 16 years. There is none better and I guarantee satisfaction. Eggs for hatching \$1 for 15 or 30 for \$1.50. Remember that the best are the cheapest. O. H. Stilson, Corwith, Ia.

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Prize-Winning B. Langshans exclusively, scoring to 94 1/2 at Dubuque by Lambert. Eggs, 13, 85c; 26, \$1.50; 100, \$4.50. W. W. Baskerville, Earlville, Ia.

Black Langshans Bred exclusively; farm range; prize winners. Eggs, \$1 per 15; \$4 per 100. F. S. Thompson, Algona, Iowa.

LANGSHANS.

BLACK LANGSHAN EGGS FOR SALE

FROM high-scoring birds, 15 for \$1; 100 for \$4.50. Safe delivery and satisfaction guaranteed.

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My Black Langshans Have won 59 regular and special premiums, including three silver cups during the past show season, and have laid during the coldest weather. Eggs, \$1, 15; \$5, 100. Margaret C. Daly, R. 4, Anamosa, Iowa.

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LECHORNS

DAY old chicks, \$1.50 per dozen. Rose Comb Brown Leghorn eggs from high-scoring pens, \$1.50 per 15. Fertility guaranteed.

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EXCLUSIVELY. Eggs for hatching, single sitting of 15 eggs, \$1.25; two or more sittings, \$1 each. 100 eggs for \$5; 200 for \$9.

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S. C. Brown Leghorns—My method and farm S. range has developed layers with vigor. My eggs produce layers. One-third fancier's price and better layers, \$1.50 per 30; \$3 per 60; \$4 per 100; \$6 per 200. Prompt shipment. J. E. McCarthy, Enfield, Ill.

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EXCLUSIVELY. 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1; 50, \$3; 100, \$5; 200, \$9.

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FOUR breeding pens each consisting of four pullets, one cockerel; S. C. W. Leghorns. Each cockerel has show winning record; breeding, pedigree and Leghorn characteristics the best. I cut the price in two at \$25. Sold on approval and satisfaction guaranteed. M. E. Birchard, Hazleton, Iowa.

S. C. Brown Leghorns Iowa State Show winners, 1909. Selected farm range flock. Eggs, \$1.50 per 30; \$4 per 100; yards, \$1.50 to \$4 per 15. Circular and mating list free. Orlando Jacobs, Mediapolis, Iowa.

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BREEDER of "bred to lay," a strain of unsurpassed winter layers. Eggs, \$1 sitting, \$5, 100. No order too large. R. S. Ketcham, Box 300, Boonville, Ind.

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WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50; 15 eggs, incubator, \$5, 100. Also Bennett's strain S. C. R. I. Reds, \$1.50, 15. Sunny Slope Poultry Yards, Oskaloosa, Iowa.

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S. C. B. LEGHORNS Eggs pure blood farm range at \$4 per 100 or \$1 per sitting. MRS. H. C. LAMBERT, ANTHON, IOWA.

S. C. BROWN Leghorn eggs from prize-winners. Won on every entry at the Iowa State Show January, 1909. Mrs. Clyde Nelson, Birmingham, Ia.

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Eggs for Sale From my pure-bred Rose Comb Brown Leghorns, \$3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

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Rose Comb B. Leghorns Pure-bred eggs, 20, \$1. Prices on lots. Address Mrs. L. Mather, Clarksville, Iowa.

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TOMPKINS' strain. America's finest. Large, long-bodied, vigorous birds. Red to the skin. Bred for egg production. Eggs, \$1.50, \$3 and \$5 per 15; \$3 per 100. Circular free.

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S. C. Rhode Island Reds

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Rose Comb Cherry Reds 20th Century birds, selected eggs (fertility guaranteed), from high-scoring, good-laying strains. Farm range, 17 eggs, \$2; 50, \$5; 100, \$8. This ad. mailed with order brings 5 additional eggs. My birds better than ever. Orders filled promptly. Write for circular. W. W. Forbes, Box 710, Jefferson, Iowa.

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EGGS for hatching from choice pen, \$1 per 15. Exhibition pens, \$2 and \$3, birds scoring to 94 1/2. Deep red, not buff or smutty. Start with the best. Satis. guaranteed. L. G. Johnson, Steamboat Rock, Ia.

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BRED from leading strains, such as Sheldahl, Tompkins and Rountree. Eggs for this season at \$1, \$2, \$3 per 15. M. Finkenhagen, Ellsworth, Ia.

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Rose Comb Rhode Island Red eggs. Strong, vigorous flock. Pen No. 1, headed by high-scored cockerel, 15 eggs, \$1.25; 30 eggs, \$2.25. Pen No. 2, 100 eggs, \$4.50; 50 eggs, \$2.40. Miss E. C. Powers, Osage, Iowa.

"BIRDS THAT LAY AND PAY" R. C. R. I. Reds exclusively; pen 1, trap-nested, 15 eggs, \$2; pen 2, 15 eggs, \$1.50; incubator lots, \$6 per 100. Address MRS. CLIFF SAID, EMERSON, IOWA.

Eggs for Hatching From S. C. R. I. Reds. Special attention given to the laying as well as exhibition qualities. Also three grand matings of B. P. Rocks. C. H. Drake, Hazleton, Iowa.

EGGS FROM SCORED R. C. R. I. REDS

\$1.50 per 15; \$5 per 50 or \$8 per 100. MRS. E. C. MCCARTHY, ELLIOTT, IOWA.

FOUR pens Standard S. C. R. I. Reds. Eggs from \$1.25 to \$5 per 15 and \$6 to \$20 per 100. Guarantee a hatch of 9 chicks to a sitting. Egg catalog free. Few females for sale. W. I. Mouser, R. 5, Red Oak, Ia.

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R. C. R. I. Reds. Cherry Red strain. Eggs from 5 pens; also utility yard. Scored cockerels for sale. Harry C. Blake, Maquoketa, Ia.

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ROSE and Single Comb R. I. Reds; fine bred; high-scoring eggs, 15 for \$1, 50 for \$3, 100 for \$5. Good laying strains. Mrs. T. A. Gough, Bristow, Iowa.

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S. C. R. I. Red Eggs Pure stock; No. 1, \$1; range, 75c. per 15; cheaper at home. Mrs. E. Sunberg, Stanton, Iowa.

EGGS S. C. R. I. Reds, Tompkins strain. Two pens, \$2 and \$1.25 per 15; \$5, 100. Mrs. Francis Culver, Culverdale Farm, Red Oak, Ia.

S. C. Rhode Island Reds exclusively; free range, good layers; eggs, \$5 for 100, \$1 per sitting. Write me. Address C. K. Loveland, Janesville, Iowa.

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Indian Runner Duck Eggs for Sale 9, \$1; 100, \$7. Write T. P. OVERTON, Tracy, Ia.

INDIAN Runner ducks; imported stock. Orders booked for eggs at \$2 per 15. Pure fawn and white. F. L. Reinhard & Son, Ottumwa, Iowa.

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COCKEREL pens headed by first-prize winner at Des Moines Poultry Show, 1908, and birds of equal merit. Females consist of pullets sired by the State Fair first-prize cockerel and the hens that produced them. Pullet pens are Blue Belle strain, and contain first-prize hen, State Fair, 1908; second-prize hen and pullet, Des Moines Poultry Show, 1908. Eggs, special pens, \$3 for 15; others, \$2.25 for 15. E. M. CATHCART, CHARTER OAK, IA.

219 Egg Strain Barred P. Rocks

THEY win and lay and pay their town way. They have for Hartman and can for you. Eggs for hatching from all pens \$1.50 for 15, \$2.50 for 30, \$3.50 for 50 and \$6.00 per 100. Special mating \$3.00 for 15, \$5.00 for 30, and \$8.00 for 50. W. A. HARTMAN, Box 242, Winterset, Iowa.



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BREEDERS of exhibition Barred Plymouth Rocks 31 years. They are good layers, with large size, and have that deep, blue, straight barring. Eggs, \$1.50 per 15; \$2.50 per 30. Special exhibition mating, \$3 per 15; \$5 per 30; guaranteed fresh and fertile.

Barred Plymouth Rock Eggs

FIFTEEN for \$1; 30 for \$1.75; 100 for \$5. Stock scoring to 93%. Grand in size; males weigh 10 to 12 lbs.; Blue Ribbon winners. My customers are not disappointed when chicks are grown. Hawkins, Thompson, Bright and Bradley strains. Guarantee good hatch and safe delivery. Catalog free. S. V. LATCHAM, MONTEZUMA, IOWA.

BARRED ROCK EGGS

FROM extra fine hens mated with the males I had in my pens last season. Scored from 91% to 92% by Russell and Southard. Send for a true-to-life photo. Eggs \$1.15. Eggs from pens \$5 per 15. Address J. W. HOPSON, BEDFORD, IOWA.

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LARGE boned, typical shape, snow white, 93% to 95 points. Eggs for hatching, \$2 per 15. If you want winter layers, I can please you. W. T. Wilkinson, Rosedale Farm, E. Des Moines, Ia.

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OUR yards represent Hawkins, Bradley and Thompson strains, and descendants of leading prize winners. 18 eggs, \$1; 40, \$2; 100, \$4.50. A fair hatch and safe delivery guaranteed. H. C. Saunders & Son, Montezuma, Iowa.

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THOMPSON & Bradley strains from high scoring males and females. Pen A—pullet mating. Pen B—cockerel mating. The very choicest. Address MRS. L. C. REESE, PRESCOTT, IOWA.

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BRONZE turkey eggs; Barred Rocks, special mating, 16 eggs, \$1; \$5.50 per 100. Farm range, 30 eggs, \$1; \$3.25 per 100. Bronze turkey eggs, 30c per egg, 11 eggs, \$3. Also 2 year-old registered Poland China male hogs. M. V. Leeper, Redfield, Iowa.

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If you want Barred or White Rock eggs, order at once. Either variety, 15 eggs, \$1.50; 30, \$2.50; 45, \$3; 100, \$6.50. Theo. Martin, Bellevue, Iowa.

Barred Rock EGGS from high-scoring, farm-range stock, with heavy bone, small comb and clear, narrow barring. Twelve years' experience; satisfaction guaranteed; pens, \$1.50 per 15; range flock, \$1. Mrs. Chas. Murphy, Dexter, Ia.

Barred P. Rock Eggs from Blake's improved egg-laying strain. Write for prices and my secret for raising better layers. GEO. F. BLAKE, MAQUOKETA, IOWA.

CRAY'S Barred Plymouth Rock Eggs for sale from 50c to \$5.00 per sitting of 15 eggs. Incubator eggs \$3.00 per 100. Write for my free egg circular. J. H. Cray, Wellman, Iowa.

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Large, high-scoring birds; pen 1, \$1.50; 15 pen 2, \$1.15; \$2.50; 45, \$10.00. Hens, \$1.50; 15 pen 2, \$1.15; \$2.50; 45, \$10.00. Hens, \$1.50; 15 pen 2, \$1.15; \$2.50; 45, \$10.00. Hens, \$1.50; 15 pen 2, \$1.15; \$2.50; 45, \$10.00.

Barred Plymouth Rocks exclusively. Eggs from high scoring birds. Largest type, best breeding and marking. Bradley strain \$2.00 per 15. Mrs. S. M. Thompson, Birmingham, Iowa.

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From a strain of fine winter layers, \$1.50 per 15; \$4.50 per 50; \$3 per 100. L. L. Woods, Grinnell, Iowa.

White P. Rock Eggs, 15 for \$1.50; 30 for \$2; 100 for \$5; from prize-winners and scored stock; Fishel strain. Mrs. E. C. Turner, R. 1, Griswold, Ia.

White Rock Eggs, Fishel strain, pure white \$1.00 for 15; \$5.00 per 100. Mrs. Melvin Baird, Red Oak, Iowa. R. S.

BARRED ROCK EGGS

Barred P. Rocks exclusively, large bones, good barring. Farm range eggs for hatching 15, \$1; 30, \$1.50; 100, \$4.00. Mrs. I. S. Battles, Mitchellville, Iowa.

BARRED ROCK EGGS

Bradley Strain Barred Rocks Eggs from pens \$1.50 per 15; from flock \$1. Mrs. Geo. Dawdy, Abingdon, Ill.

Barred P. Rocks Eggs for hatching, "Shell-barger strain," both matings. Eggs, \$1 per 15; R. I. Hawthorne, West Liberty, Ia.

Barred Plymouth Rock Eggs At \$1 for 26, or \$3.25 per 100. Mrs. Sidney Hunt, R. 3, Earlville, Ia.

PURE bred W. P. Rock eggs for sale from reared birds. Special price, \$1 per 13 eggs. Also a few fine cks. White Rock Poultry Farm, Earlville, Ia.

EXCLUSIVELY—Barred Plymouth Rock eggs from healthy, large stock. \$1 per 15, \$2.50 per 30, \$4 per 100. Address S. S. Krebill, Donnellson, Ia.

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WRIGHT'S Famous "bred to lay" Barred Plymouth Rocks. Eggs, \$1.50 for 15; \$2.50 for 30. Lufe D. Wright, Knoxville, Ia.

Eggs From our famous laying strain of White Plymouth Rocks are plentiful and at right prices. Address T. F. Martin, - - Maxwell, Iowa.

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Hawkins', Felch's and Thompson's
LINE BRED Barred Plymouth Rocks; 1st premium won wherever shown. Yards headed by high scoring exhibition cockerels. Every male bird used in 1909, and for past ten years we bought from A. C. Hawkins' and E. B. Thompson's Madison Square Garden prize-winning pen and I. K. Felch's reserved pens, and sell 18 eggs for \$1; 40 for \$2; 100 for \$4.50. This year we paid Thompson \$11.75 for one cockerel. They are an unbroken line of prize winners, weight standard and above. I mate them by standard rules. Fertility guaranteed. I am an expert caponizer. Catalog free.

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EVERGREENLAWN FARM M. Hummel, Prop. Monroe, Iowa.

EGGS—EGGS—EGGS—FOR HATCHING

BREEDER of Barred P. Rocks exclusively for 27 years. Yards headed by cocks and cockerels scoring 92 points; first prize winners weighing 11 to 13 lbs.; hens and pullets weighing 8 to 11 lbs., with that deep strain blue barring. Eggs, \$1.50 per 15; \$2.50 per 30. Prompt shipment; eggs guaranteed fertile.

B. P. ROCK Eggs for sale from extra large-boned, nicely-marked stock; yards headed by cocks and cockerels scoring 90 to 92%; weighing 11 to 13 lbs. In five showings including Central Iowa Show, 1909, Russell, judge, we won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths, 15 eggs, \$1.50; 30, \$2.50; guaranteed fertile. J. W. Wagner, Monroe, Ia.

BARRED ROCK EGGS

From winners. Heavy layers and payers, \$1.25 to \$4 for 15. Bright, Bradley and Latham strains, line bred. Satisfaction in hatch, quality, and results assured. Send for my free, handsome new catalog. Don't delay; write today. J. H. Chandler, R. 1, Des Moines, Ia.

For Sale—Barred Plymouth Rock Eggs

FROM high-scoring females, mated to pure Bradley cockerels. Also a special cockerel mating, all pure Bradley birds. The very choicest stock. Address Mrs. E. H. Pullman, Box 755, Lenox, Iowa.

Barred Rock Eggs

Three yards of specially mated large hens and pullets; males rangy, evenly colored, line bred, large boned, deeply m'kd, double matings. Eggs, \$1.50, 15; \$2.50, 30. J. O. Becker, Chariton, Ia.

Fancy Bred Barred Plymouth Rocks EXCLUSIVELY.

Eggs, \$1 for 15; \$1.75 for 30; \$5 for 100. A. O. Lokken, Alta, Ia.

Barred Plymouth Rocks

Farm range eggs, \$2.50 per 50; \$4 per 100. Anthony O'Connell, Lost Nation, Iowa.

Buff Rocks

The ideal farmer's fowl—winners highest awards Iowa State and other leading shows this season. Stock and eggs for sale. C. & C. T. VAN LINT, Pella, Iowa.

Eggs B. Rock, \$1 per 15; \$5 per 100. Geese eggs 25c, etc. Also some geese yet or sale, both sexes. Letters from satisfied customers, not one complaint. MRS. J. COCKERTON, Whiting, Iowa.

BARRED P. ROCK EGGS \$1 for 15; \$5 for 100; farm range. Mrs. J. L. Myers, Roslyn Farm, Almont, Iowa.

White P. Rock Eggs from snow white birds; excellent layers; \$1.25 per 15; \$5 per 100. Frank Nordstrom, Aurelia, Iowa.

WHITE Plymouth Rock eggs, \$1 per 15; \$2.50 per 50; \$4 per 100. Will sell a few hens at \$1 each. Address Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

B. P. ROCKS only. Large boned, well bar., good layers, high scoring, prize won, thrifty birds, fair deal. Eggs, 30, \$1.25; 100, \$3. J. M. Reeder, Earlville, Ia.

Buff Plymouth Rock Eggs For hatching, from high-scoring pens, \$1.50 per 15; \$6 per hundred. E. C. RICE, GRAY, IOWA.

BARRED ROCKS Large, heavy-boned cks. Eggs in season from prize-winning strain. Frank Santee, Whit Cheer, Ia.

SMITH'S Buff Rocks. Eggs for hatching from my choice flock of Buff Rocks; fine layers; 15 eggs, \$1; 100 eggs, \$6. C. F. Smith, Route 5, Griswold, Iowa.

Buff Plymouth Rocks and eggs at reasonable prices. Farm raised, of fine quality. Address Mrs. M. C. Thompson, Route 2, Atlantic, Ia.

White Plymouth Rock eggs from scored stock of Fishel strain, \$1 for 15; \$5 for 105. J. B. TRACY, Greene, Iowa.

EGGS From Barred Plymouth Rocks. Heavy weight fowls a specialty. Write for prices. L. D. Wells, Morrisville, Ill.

Buff Plymouth Rock Eggs for hatching, at \$1 per sitting or \$5 per 100. Address O. N. WOODY, Route 3, NEWTON, IOWA.

BARRED P. Rocks exclusively. Eggs from large-boned, good-shaped, well-bared birds, \$1.25, 15; \$2.25, 30; \$3, 50; \$5, 100. Arthur T. White, Emerson, Ia.

Barred Rocks Large boned, good layers, farm raised; \$4 per hundred; \$1 per fifteen. Adella Smith, Route 4, Creston, Iowa.

Barred P. Rock Eggs From good laying stock; 75c per 15; 45, \$2; \$4, 100. Address Mrs. Hattie J. Jennings, Beaconsfield, Iowa.

BUFF ROCK EGGS For hatching, \$1 per 15; \$5 per 100. G. A. Holland, Rockford, Iowa.

BRAHMAS.

Ottumwa POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

LIGHT BRAHMA Eggs for hatching; 30 for \$1.25; 50 for \$2; 100 for \$3.25. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

LIGHT BRAHMAS Eggs, \$1 per 15; all unfertile eggs replaced at half price. Stock for sale. H. F. Moffet, Afton, Iowa.

MINORCAS.

S. C. BLACK MINORCAS EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

S. C. B. Minorcas eggs for hatching, from first-class stock; \$1.25 for 15 eggs; \$5 for 100 eggs. Incubator lots a specialty. H. A. Wohlsdorf, Lawler, Iowa.

ORPINGTONS.

S. C. BUFF ORPINGTONS Cook strain direct. Eggs, \$2 per 15; \$10 per hundred. B. S. Long, Little Sioux, Iowa.

ORPINGTONS, S. C. Buff. A fine stock. Farm raised. Eggs 15, \$1.50; 30, \$2.00; 50, \$3.00; 100 \$5. Address, Dan McCarty, Winthrop, Iowa.

Buff Orpington Eggs from prize-winning birds, \$1.50 to \$3 per 15; also o-ders booked for baby chicks. Mrs. O. A. Mace, Bedford, Ia.

Buff Orpington Eggs from scored pens. Eggs from a fine pen of Houdans, Write me. Mrs. Chas. Gutches, Floyd, Iowa.

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S. C. Buff Orpingtons Cook strain; eggs for hatching, 15, \$1.50; 30, \$2.50. Address Mrs. Geo. Haas, Shelby, Iowa.

S. C. Buff, Black, White and R. C. White scored cks. Won hundreds of prizes. Eggs, \$1.50 up. Hens with baby chicks. Mating list. Dr. Evans, LeGrand, Ia.

S. C. BUFF ORPINGTONS Good shape, size or color; free range eggs, \$4 per 100; 75c. per 15. Address O. J. Early, Bristow, Ia.

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BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

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Homer Pigeons mated birds and breeders from \$1 to \$1.50 per pair. Photo free. Address J. W. HOPSON, BEDFORD, IOWA.

MISCELLANEOUS.

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I am offering eggs from very large stock and the best of laying strains at 75 cents per sitting of 15. I can also furnish incubator hatches on short notice at \$4 per 100. Barred Plymouth Rock eggs from Ringlet strains, raised on separate farm, at \$1 per 15, or \$4.50 per 100. Address H. FESSENMEYER, CLARINDA, IOWA.

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FROM farm range stock; Barred Plymouth Rock, Buff Plymouth Rock and Single Comb Brown Leghorn. Prices reasonable. Circular free. C. E. MATTESON, Pewaukee, Wisconsin.

Eggs from High-Scoring, Prize-Winning

B. and W. P. Rocks, W. and S. Laced Wyandottes, S. C. W. and Brown Leghorns and Golden Sebright Bantams at \$1.50 per 15. Extra fine M. B. turkey and Toulouse geese eggs at 30 cents per egg. Circular free. Frank Koenen, Route 4, Mankato, Minnesota.

White Plymouth Rocks and S. C. W. Leghorn eggs at 75c. a sitting. Prize-winning stock. You cannot get anything better for five times the money. Address, Charles L. Berry, Route 6, Iowa City, Iowa.

White Holland Turkeys B. P. Rocks, Pekin ducks; extra large, high-scoring prize winners. Ten turkey eggs, \$3; fifteen Barred Rock, \$1.50, from laying strain; ten duck, \$1.50. Address Fred Post, Moulton, Iowa.

S. C. R. I. Reds. Eggs from two selected pens. S. mated for exhibition quality, and heavy winter layers. Eggs from flock on free range. Have some extra quality W. Orpingtons and S. C. W. Leghorn eggs. Mating list free. Dr. F. D. Miner, Hazleton, Ia.

S. C. R. I. REDS BARRED ROCKS 15 eggs \$1; 100, \$5. E. E. HEALY - - BEDFORD, IOWA.

EGGS S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility; suits and highest fancy attainment. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

S. C. B. Leghorn eggs, \$3.50 per 100; Light for 15; Pekin duck, \$1 for 11; Toulouse geese, \$1 for 6. J. M. CRAIG, Route 1, DANBURY, IOWA.

EGGS R. I. Red, W. Orpington, S. L. Wyandotte, all Rose C. Pekin and Indian Runner ducks, all bred for size and egg production. Send for circular. P. F. Smith, Montezuma, Ia.

BLACK LANGSHANS AND RHODE ISLAND REDS Eggs, \$1 for 13; \$5 per 100. MRS. H. A. SEXSMITH, Greenfield, Iowa.

EGGS Mammoth Pekin, W. Wyandotte; also Wyandotte cks.; scored stock; sure to please. E. S. Dyas, Bellevue, Iowa.

B. P. Rock Eggs 26, \$1; 100, \$3. M. B. turkey eggs, \$3.50 for 11. A few good cockerels for sale. Robert Hunt, Earlville, Iowa.

FOR SALE—R. I. Red, Embden geese and Pekin duck eggs. Also baby chicks. Maple Lane Poultry Farm, Mrs. J. C. Kessler, R. 3, Oskaloosa, Iowa.

White Wyandotte And S. C. Buff Orpington eggs for hatching; \$1 sitting or \$5 per 100. Mrs. J. E. Le Gassick, R. 2, Earlville, Ia.

Barred P. Rocks and Single Comb Brown Leghorn eggs, 15, \$1.25; 30 \$2; 50, \$2.50; 100, \$4.50. J. A. PENN, Alta, Iowa.

White P. Rock and B. Langshan eggs, \$1 per 15; \$5 per 100. Also Bourbon Red turkey eggs, \$2.50 per 10. Mrs. Vick Willis, Saine, Missouri.

WHITE Faced Black Spanish and Single Combed Black Minorcas. Eggs for hatching. \$1.25 per 13. Peter H. Kurtz, Pleasant Plain, Iowa.

MARTIN'S Snow W. Rocks, scoring 93% to 95%, \$1.15 eggs; utility flock, \$3.50, 100. Indian Runner duck eggs, \$1.25, 15. Clarence Martin, Clarksville, Ia.

MISCELLANEOUS.

B. P. ROCKS. M. B. TURKEYS
ROCKS, best utility. Good winter layers. Eggs \$1.00 per 15; \$5.00 per 100. M. B. Turkeys, prize winning stock. Eggs, \$1.00 per 10. Address, P. J. Conney, Box 513, New Hampton, Iowa.

B. P. ROCK, M. B. TURKEY AND PEKIN DUCK EGGS

From Prize-Winning Stock for Sale. George M. Grinstead, Mitchellville, Iowa.

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FIFTEEN for \$1; 45 for \$2.50; 100 for \$5. I guarantee a fair hatch or send another order at half price. I also breed Shetland ponies. Some young colts for sale. Frank P. Healy, Bedford, Iowa.

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EGGS for hatching. Eggs from pens 1 and 2, each breed, \$2 per 15; pens 3 and 4, \$1.50 per 15. All grand layers, from high-scoring, carefully-selected stock. Write for circular. Mrs. Jennie P. Irvin, Montezuma, Iowa.

MAMMOTH BRONZE TURKEY EGGS

IOWA King and Giant strain eggs from six grand yards of B. P. Rocks. Show stock at reasonable price. Our flocks are headed by first, second, third and fifth prize cks. at Northern Iowa Fancier Show. Send for mating list. Grant Gallaher, Spencer, Ia.

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INTERESTED in S. L. Wyandottes, Pekin ducks, Bronze turkeys and Embden geese, my 1910 catalog and mating list. Drop me a card. Ready now. J. D. Smith, Route 3, Montezuma, Iowa.

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TURKEYS scoring 96 to 97 at New Hampton, 1909. Eggs, \$4 per 10. Barred Rock eggs, \$2 per 13. Ckl. heading this pen won first at New Hampton, 1910. W. J. DAVID, NEW HAMPTON, IOWA.

EGGS From S. C. B. and W. Leghorns, Silver Laced and Partridge Wyandottes, Barred Rocks, White Orpingtons, Rhode Island Reds, Buff Cochins, Light Brahmas. Winners at big mid-west shows, Leghorn and Wyandotte cks. for sale. Catalog free. F. W. Johnson, Luther, Iowa.

ROCKS Barred and white. Also S. C. W. Leghorns, W. Holland turkeys, Toulouse geese, Pekin and I. R. ducks. Eggs for sale at right prices. We won 10 prizes and four silver cups the last year. Address, W. M. Shaw & Co., Box 16, Monroe, Iowa.

WANTED TO BUY—Thoroughbred poultry and eggs for hatching. Want Mammoth Bronze and White Holland turkey eggs, Indian Runner and Pekin duck eggs; also Golden Wyandotte eggs. We also want to buy many varieties of pure-bred poultry. Dean Swift Poultry Co., Des Moines, Ia.

S. C. BUFF ORPINGTON and Buff Rocks, also Light Brahmas, scoring 92 to 94, best of matings, all birds are high-scoring. Eggs \$2 for 15, half price after June 1st. Prices quoted on 100 lots. I. E. MINER, BUSSEY, IOWA.

COLUMBIAN Wyandottes, R. and S. C. R. I. Reds, Barred P. Rocks, Blue Andalusians. Blue ribbon winners. Stock and eggs for sale. Write for winning mating and prize booklet. N. Buffalo Poultry Yards, J. A. Arends, Prop., Buffalo Center, Iowa.

EGGS FOR HATCHING from the best of matings of Buff Cochins and B. P. Rock chickens. White Holland Turkeys and Pekin Ducks. Prices right. Address, Mrs. J. E. Baxter, Walnut Grove, Minn.

Eggs! Eggs! Polish Wyandotte, B. Rock, Houdan, Rouen, Pekin, Muscovy duck eggs, 15, \$1.50. Toulouse and Embden geese, 15 cents each. L. C. Coleman, R. 2, Box 91, Mt. Pleasant, Ia.

R. C. B. Leghorns. Eggs for hatching from farm range. Won 9 ribbons and 1 silver cup at Ames show. Eggs \$1 per 15, \$4 per 100. Embden geese eggs 20c each. E. A. Taylor,

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VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

AILING HORSE.

I have a dark brown horse, six years old, which has cold sweats while standing in the barn. I feed him corn in the morning, oats at night, and oats and shorts at noon, with good timothy hay and rye straw. I keep him in the barn at night and out during the day. He gets plenty of exercise. I give no medicine. I would be glad to get advice.

Clip the horse and see that the stable is kept well ventilated. Feed oats and hay with some wheat bran, but no straw or corn or shorts. Allow free access to rock salt.

STERILITY.

I have a mare that I am unable to get in foal. She has been bred to different horses. She is now five years old and is an imported mare. I had the last stallion examine her and he told me she was no breeder, that the end of the womb was lacking and there was a smooth surface instead. Is there any way of getting her in foal? Would an impregnator be better than a capsule? How large should the capsule be? Would this operation have to be performed by a veterinarian?

Neither capsule (half ounce) nor impregnator syringe will avail if the os uteri cannot be found. In such cases it may be suspected that there is an unbroken hymen which a qualified veterinarian can operate upon to allow of successful impregnation. It is a case for the expert to handle.

LAMENESS.

I had a mare foal her colt in September, 1908. About three weeks before she foaled she hurt her foot on a sickle guard, running it in about half an inch just where the hair and the tender part of the flesh meet on the back part of the foot. From the day she got the foot hurt she was lame, in fact, not using the foot scarcely at all until she had her colt. Immediately after having the colt she got over her lameness. Last spring I bred her again and she got in foal. As soon as she got in foal she went lame again and is lame yet. She will foal about May 9th. Now, what I wish to ask you is this: Will she in all probability go lame each time she is bred, or, rather, each time she gets in foal? I have examined her and had others examine her and there is absolutely no apparent cause for her lameness. She is so lame that she is unfit for work.

We cannot answer the question. A careful examination surely should disclose some cause for lameness; or it may be founder associated with pregnancy. We have heard of a case such as we have suggested and would most suspect some abnormal condition of the foot due to the accident mentioned. Better employ a qualified veterinarian to make the needed examination.

PIG-EATING SOW.

(1) Can you tell me a remedy to stop sows from eating their pigs, and what causes it? (2) I have lost a number of horses with swamp fever. What causes it and is there a cure for it? (3) I have a colt a year old that was perfect when it was born, but at about four months its two front legs became crooked or bowlegged, and is getting worse all the time. Is there anything I can do for it?

(1) Sows are apt to eat their pigs when made soft, sluggish and constipated by lack of exercise and overfeeding corn or other rich foods. Give sows ample exercise every day, feed to keep the bowels open and let the sows become accustomed to handling and they will be less apt to eat pigs at birth. Feed nitrogenous foods. A new plan of treatment of the sow was recently proposed to us by a reader of the Rural New Yorker. He said that when a sow shows signs of crossness and therefore will be likely to eat her pigs he puts each pig as it is born in a cotton-batting-lined basket and sets the basket back of the stove. Then he makes up a slop of one pint rum, two quarts molasses, three quarts shorts and warm water to make a pailful. This he gives to the sow at one dose in trough. Soon she becomes intoxicated and at once he puts the pigs to nurse one by one until all are nursing. When she gets over her stupor she is perfectly kind to the pigs. We do not advocate use of strong liquor and even a sow should not get drunk—although the

habit is common to some kinds of hogs (human) but the plan suggested seems sensible, but possibly one might soothe the sow to sleep with chloral hydrate in place of rum. (2) The disease is due to germ infection on wild pastures and from contaminated or alkali water. No cure has been found. Affected places have to be avoided for horse pasture. (3) Rickets from lack of lime and other mineral matters in food and water explain this condition to which the tendency is hereditary. Feed limewater freely with milk, oats and bran. Possibly this may help, but likely the case has gone too far to be curable.

CRIBBING.

I should like to ask advice about my horse. He is a five-year-old black horse and started to crib this fall. Please let me know how to cure him. He is a valuable horse and in good flesh and spirits.

Cribbing and wind sucking are incurable, but the habit may be checked by stabling the horse in a box stall from which everything has been removed upon which the teeth or chin could be set to practice the habit, and also by tying a five-eighth cord to one ring of halter or bridle then passing the free end under the upper lip over front incisor teeth pulling fairly tight and tying other end to opposite ring.



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An indispensable compound for aiding cows to the afterbirth in the natural way, thus preventing catarrhal discharge and the after effects, which are apt to result in Contagious Abortion and Barrenness.

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HORSES

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It costs about ONE CENT AN HOUR to pump water with this engine. If your time is worth more than a cent an hour you cannot afford to pump by hand: It will raise 32 barrels of water per hour to an elevation of 25 feet, 10 barrels to an elevation of 100 feet, or proportionate quantities to other heights.

This engine can be connected to "any old pump" in 30 minutes. After you have watched it pump water for five minutes you will wonder how you ever got along without it. The longer you have it, the better you will like it. It is right on the job all the time. A turn of the fly-wheel and it is off. A child can operate it. The ladies often start it to pump a pail of water. They rest while it works.

It is shipped complete with walking beam, supporting frame and everything ready to set it up in complete working order, except three stakes for driving in ground.

Next to a windmill, this is the most economical outfit for pumping. We are selling many thousands of them every year, but our sale of Aeromotors is still increasing.

A PULLEY for running cream separator, churn, washing machine, ice cream freezer, grindstone or other light machinery is furnished with this engine for \$1.50 extra.

If you need an engine for pumping large quantities of water for irrigating, watering large herds of stock, or for other purposes, our Heavy Back-Geared Pumping Engine for \$100.00 is just the thing you have been looking for. It will raise 125 barrels of water an hour to an elevation of 50 feet, or proportionate quantities to any height.

Our \$75.00 2 H. P. General Purpose Power Engine with Fluted Cooler is the best thing going. Larger sizes at proportionately low prices.

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Clip Your Horses In the Spring



In the spring when your horses are soft and you put them at the hard spring work they sweat a great deal. Their heavy winter coat holds this sweat and it dries out slowly. If left to stand they take cold easily and at night they chill and are liable to all kinds of complaints. If you clip them they dry off fast and there is no question but they stand much less chance of taking cold when dry than if wet. You would not like to

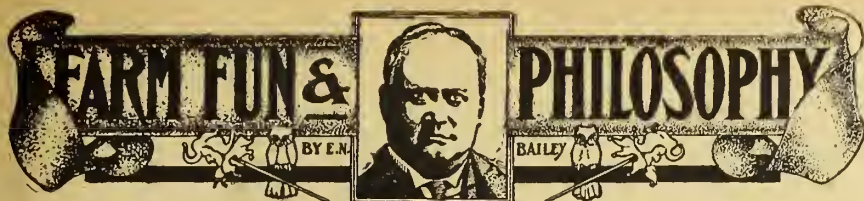
stand on a raw spring day or on a chilly spring night with a heavy wet suit on. Neither do your horses. It pays to clip them and blanket, if necessary on cold nights. Your horses dry off much faster, they feel better, rest better, get more good out of their food and do better work. They are better all around. Is it the humane and profitable thing to do. The quickest, least expensive and most satisfactory way to clip is with

The Great Stewart Ball Bearing Clipping Machine

The price, all complete, ready for work is only \$7.50. This machine turns easy, clips fast and will last a lifetime. We guarantee it for 25 years because the gears are all cut from the solid steel bar. They are made file hard. They are enclosed and protected safe from dust and dirt and they run in an oil bath.

Friction and wear are practically done away with. It is the only ball-bearing clipping machine. It has 6 feet of high grade flexible shaft and the famous Stewart one nut tension clipping knife. This is the noted knife that will stay sharp longer and clip more horses than any other clipping knife ever made. Price of the complete machine already to use is only \$7.50. Get one from your dealer or send \$2 and we will ship you a machine C. O. D. for the balance.

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PROGRESS.

What strides we of the twentieth century are making and how we lord it over our ancestors of the podauger period; it fairly makes our head swim to think of it. A black cat seen in the dark of the moon over the left shoulder was a sure sign of twins in the family in those days. Today we prognosticate the approach of a piebald comet with its tail high over the dashboard with accuracy, and let old Mother Nature take care of the twin business. We let the antediluvian, played-out, nine-spot of a defunct, reminiscent, dead-past, wooden-clock, flint-lock, rope-tug, stage-coach, canal-boat, wooden-plow, bow-and-arrow, stone-axe, blunderbuss age bury its own dead, while we kick up our heels at chautauquas, wear white vests and eat pie made by machinery.

How the twentieth century dazes us! No togas or sandals, knee-breeches or powdered wigs—just plain directorate gowns, swallow-tailed coats, plug hats, curled mustaches, with Merry Widows, wire rats and other distortions to beautify and adorn.

Those old fellows made excellent mummies and were fixed up so they wouldn't mildew or sour, but they all look tired and show the effects of worry. No one worries now. Everybody gets all he can, keeps all he gets, and lets the other fellow worry. When Mark Antony's jig was up the stone ram's head on the cornices of the temples wagged with satisfaction, but today the man who has an affinity and doesn't talk about it too much is sent to congress and his wife plays bridge whist with the ministers plenipotentiary and envoys extraordinary of imperial Rome.

They burned witches a hundred years ago. Today the witch travels with a tent show and tells fortunes for coin of the realm. They used to bleed a man to kill warts. Today they bleed him for a contribution to the campaign fund. They used to split a cow's tail to cure hollow horn. Today the farmer feeds the cow and splits the difference on her price at the butcher shop between a high price and a higher one. They used to have the colic in those days and roll them on a barrel, rubbing gently with a hot brick. Today it is appendicitis and they cut them open; choice cuts \$500 to \$1,000 per cut.

Progress, mighty progress! And the police captain of today, with his gold braid and brass buttons, feels his oats and kicks higher than Julius Caesar did when he pranced over the seven hills of Rome.

Those old-timers knew nothing of gold bricks or shell games. Their main recreation seemed to be to whip their neighbors and confiscate their wives. Foreign trade in those days was in peacocks, apes, concubines, mules, and other household necessities in exchange for knocks on the head and prods from a toad spear. Today we have reciprocity and take edible bird nests in exchange for wooden nutmegs and whetstones.

The world has been getting better for 4,000 years, and the next generation will fly like wood pigeons and every umbrella will be a parachute.

"Bill" Jenkins' Cats.

Bill was a farmer boy and always a great hand to be training domestic animals. He had broken all the steers to yoke, broken the colts to be ridden and had the two house dogs and a pair of goats broken to pull him on a sled, but Bill yearned for more worlds to conquer and conceived the plan of breaking four large tomcats to harness, for he argued that a cat can always outrun a dog and can run at least twice as fast on the ice as a dog can and when the lake is frozen over it will be great sport to hitch four of them to a hand sled and take a lightning ride across. He had a very light and strong sled made and set at work breaking his cats. It was slow work

at first, but he had a natural genius for getting the good will of his pets and soon had them "working" two on each side of a pole that he used as much for steering them as he did his reins. Just before Christmas a heavy rain fell, flooding the ground. Turning suddenly cold the whole landscape was a sheet of ice. Bill's plan was to put the cats in sacks, take them across the lake where he would hitch them, then take his "lightning" ride. Getting a neighbor boy to help him they buckled on their skates and proceeded across the lake to a sandbar where the hitching was done.

The cats clawed and scratched, but with a lot of coaxing he finally got them hitched, and mounting the sled he yelled "scat!" Well, they did "scat." When they got under headway the lightning express or a carrier pigeon was their only rival. They crossed the lake, started up through the pasture lot on ice a little rougher, which enabled them to get a better "toe hold" and increased their speed if anything. They were going at a terrific gait when all at once a couple of hounds that were nosing around, spied them and then there was something doing not on the bill of fare, nor on Bill's program, either. There was a log fence at the edge of the pasture and the remains of an old log barn at the end of the fence, and for this the cats made at a hurricane gait, the bounds following bay-ing, and gaining on them at every jump. Bill seeing that something was liable to occur pretty suddenly, crouched down and rolled off the sled on the ice. He rolled over and whirled around something less than a hundred times, tearing the most of his clothing off, but was not badly hurt and after getting up and getting his bearings he saw his cats on the top log of the old barn, the sled still hanging to them, and their tails swelled up about the size of a rolling pin, while the dogs were capering and dancing around like mad at the foot of the building.

Bill limped over to the barn, and first giving the dogs a few thumps with a club, drove them away and catching his cats proceeded to unharness them. After much scratching and yowling he got them loose and went home hauling his sled and looking as though he had been run through a hay tedder.

Bill was always a lover of animals, and always had a lot of pets around, but that was the last time he ever attempted to drive cats to harness. He said it was a success so long as it lasted, but the time it took to get anywhere was too brief to allow anyone to enjoy pleasure riding. This was before the day of "joy" rides, but Bill's cats would have given an automobile the merry "ha ha" about the time they were getting up that old log barn ahead of those dogs.

"A New York man," says the Platte City (Mo.) Landmark, "has been sentenced to the penitentiary for ten years for stealing a ham. Had he been a trust magnate and stolen a million, etc." But this kind of writing won't go much longer. The attention of the Landmark is called to the fact that the difference between a ham and a million dollars is becoming slight.

The farmers of the country are opposed to unrestricted immigration into this country, says a Washington, D. C., dispatch. None of the immigrants reach the farms where they might be utilized, and the farmer consequently sees no reason for their coming. Also they are opposed for patriotic reasons to the great tide of immigration of the lower classes of Europe and Asia. These were the statements of a committee representing the Farmers' Educational Co-operative Union, which appeared before the house committee on immigration. The spokesman said they represented 3,000,000 farmers.

Paint's Part in Home-making



PAINT is the first thing you notice about a house. If you doubt it, take the paint off your house and see if it looks like home.

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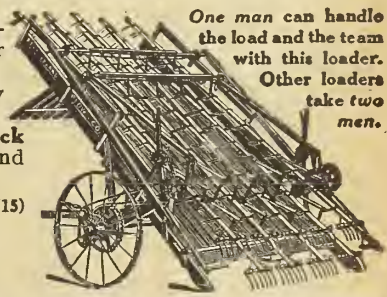
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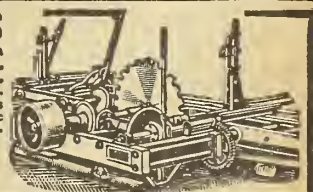
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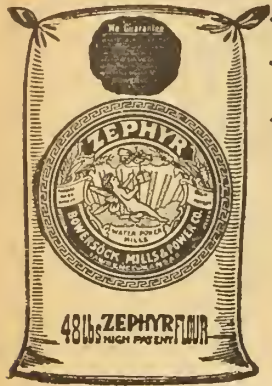
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WITH THE EDITOR.

One of the most illuminating things I have read in some time is an editorial in the Independent on "The Farm a Laboratory." The keynote of the article is sounded in the following extract:

Not only young people, but their parents, overlook the fact that the boy while doing chores in the morning is just as much at school as he is after the 9 o'clock bell rings and he sits before a book or stands before a blackboard. In fact, he may be learning more at home than in the schoolhouse of that truly useful information which will make him a practical worker and a useful citizen.

Our attention is drawn to the fact that knowledge which is not usable is a very useless possession—like a furniture store locked up. The contention is that "boys who leave the farm to learn Latin must be told that they are going from a school as well as to a school."

An incident is related of two fine young fellows, pupils in a high school, who came asking advice as to further study, ambitious for "education." They were very much surprised indeed to learn that the friend whom they consulted valued their knowledge of botany, ornithology, entomology, dairying, etc.—gained doing chores at home on the farm—as fully equal in value to what Latin and history they had picked up at school.

Here, says the writer, are two facts to be recognized and enforced: First, that our school boys, and school girls, also, should not float through school without definite determination, but should choose an occupation and fit themselves for it. The second is that every farm should be a school, for the most part open to pupils, that a great farm apprenticeship system should grow up in the United States.

As showing that the tendency of education is to become more practical, attention is drawn to the fact that here and there school teachers and superintendents are vitalizing school work after the fashion of Hannibal, Mo., where the superintendent encourages work with samples of textile materials. These he collects from the great manufacturing concerns, and with them teaches "the relative advantage of different kinds, pattern cutting, garment making, sewing, the passion for styles, the evils of extravagance, the benefits of economy and other twentieth century problems."

He proposes to take up foodstuff in the same manner, working along the line of human instincts, and not the mere mental possession of facts. He proposes to arouse constructive impulses and awaken thought. His method of teaching geography is to begin at the factory, then show its bearings upon the great cities, the route of transportation by which raw material is brought to mills, and then reaches the markets as a finished product. Higher geography involves with him the problems of transportation, freight rates and passenger rates—arousing social impulses of the right sort as well as furnishing information. He organizes a producers' club among the school children, for vacation work. He reaches out to the children's homes, where considerable schooling is going on in the way of gardening, lawn dressing and orcharding. The children are taught to have their own bank accounts, and the daily vital energy of a boy or girl is wisely directed along industrial lines.

This school superintendent, like other thoughtful educators, is distressed by the non-utilitarian tendency in education. He says he has seen too much time wasted "on useless study and uninteresting instruction." He holds that the education of a child should be derived, as far as possible, from the actual and normal experiences of life, and that school instruction should not be entirely divorced from practical industry. He

does not consider it right to call a child educated who has the habit of leaving tools about the lots, or wasting natural products of value, simply from ignorance of their worth.

This last thought brings the writer back to the idea or position that "the farm is a school where every known science is practiced, or ought to be."

The great increase in the price of living is turning the thoughts of many to the land. It is well that this should be so. And instead of encouraging city people who have neither knowledge nor skill in the art of farming to take up land, the sensible thing would seem to be to stir in the bosom of those already on the land a legitimate pride in their calling and a larger consciousness of the dignity and possibilities of farm life.

This latter is especially wise where there are young people in the family. They should be given opportunity to study new methods and the improved ways of doing things. It is long past time to sneer at the "book farmer." The men who are making the greatest success in grain, stock, dairying and fruit are those who are studying the failures and successes of others and the scientific way of doing things. The father who wants his boy to stay on the farm should send him to an agricultural college for a while and when he comes home encourage him to work out the principles there expounded.

When farms are recognized as laboratories where the most fascinating experiments may be worked out with profit ambitious young men will no longer find it necessary to go to college to secure a liberal education, and farm life will hold the flower of its young life.

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY.

"Lead us not into temptation."—From the Lord's Prayer. Temptations are easier evaded than resisted.

WAVE YOUR HAND TO CARE.

Get out into the morning
And breathe the blessed air.
Light up your soul with sunshine
And wave your hand to care!

Go where the streams are singing,
Stand where the skies are fair.
God's bells of joy are ringing—
So wave your hand to care.

LAUGHTER AIDS DIGESTION.

Where nourishment and health are concerned laughter and good will are vigorous promoters of the digestive functions. The court jester was a valuable piece of dining room furniture in olden times, and a good-natured and cheerful guest who keeps up a lively and entertaining conversation at the table does more to aid digestion than all the nostrums ever invented.

GETTING A RENEWAL.

Little Dorothy was playing "house" with her small friend, Elizabeth, when suddenly she said, "I guess I'll haf to go home."

"What for?" asked Betty with a good deal of concern.

"To ast my mama if I can tum back again," answered Dorothy.

GOOD LANGUAGE.

A very valuable habit for a family to acquire is that of using pure and precise language. As a matter of art such an acquisition is desirable. There are beauty and grace in the very form of language correctly and concisely spoken. There is a charm in the speaker who is careful of his manner of speech.

But far more important than the beauty of correct speech is the intellectual vigor which it stimulates and promotes. The use of good language encourages the habit of clear thinking. Speaking well and thinking well naturally go together. The intellectual process largely controls the manner of expression.

THE PANSY BED.

Build a mound around a big yard tree by piling rich garden soil one foot high against the trunk and grading it to the ground. In this bed plant several varieties of pansies and a border of dwarf alyssum at the extreme edge. These flowers bloom until frost nips them and they need very little attention. Cut the white alyssum

bloom once every two weeks and pick blooms of pansies frequently.

USE IRONING WAX.

Save your temper and clothing by a generous use of ironing wax on ironing day. Keep a large, soft rag to rub the iron with after waxing. This keeps the iron clean and bright, also indicates the temperature.

A teaspoonful of melted paraffin in your starch will lighten labor and make the clothes whiter.

The refined starch, that usually used by housekeepers for cold starch, is much better and more economical for general starching or with boiled starch. When irons are too hot set in kitchen sink and turn the faucet on for a moment. A plunge into basin often results in painful scalds to the hands.

Hang sheets by selvage edge and you will not have those awful crinkly wrinkles to iron out.

When washing flannels wash in a good hot suds made of castile or green olive soap, rinse in a clean suds of same temperature. They will not shrink. Never allow flannels to freeze; it is as bad as boiling.

HINTS FOR THE COOK.

Jellied Eggs.—Drop eggs into sufficient boiling water to cover them. Let them stand until the water begins to boil again. Remove the dish and let stand for nearly seven minutes where the water will remain just below the boiling point. These are especially nice for invalids, being of easy digestion.

Cabbage with Milk Sauce.—Cut a nice head of cabbage as for cold slaw; pour over it one pint of boiling water and stew for ten minutes. Pour off the water and pour over the cabbage a half pint of rich milk. When the milk boils add a heaping teaspoonful of flour, moistened with a little milk; season with salt and black pepper to taste and add a small lump of butter. Serve hot.

A Minced Roast of Beef.—Mince two pounds of sirloin or round steak with one pound of fresh pork from the shoulder, or put them through the meat grinder. Add one egg, one cup of cracker crumbs and plenty of salt and pepper. Form into a loaf and sear on all sides in a very hot dripping pan, using just enough butter to prevent its sticking to the pan. Season one can of tomatoes with pepper and salt and a bit of mace and pour this over the meat. Bake, basting often in a moderately hot oven about half an hour, then take out loaf of meat and thicken the gravy in the pan with a little flour, adding boiling water, if it be necessary, and strain this over the meat. Onion and parsley may be added to the sauce if liked better than mace.

AMONG OURSELVES.

"Hawkeye" brings a bit of verse for our opening number. It was published anonymously, she says—one of those estrays which have found abiding place in many a heart:

IF WE ONLY KNEW.

Could we but draw back the curtains
That surround each other's lives,
See the naked heart and spirit,
Know what spur the action gives,
Often we should find it better,
Purer than we judge we should;
We would love each other better
If we only understood.

Could we judge all deeds by motives,
See the good and bad within,
Often we should love the sinner
All the while we loathe the sin.
Could we know the powers working
To overthrow integrity,
We should judge each other's errors
With more patient charity.

If we knew the cares and trials,
Knew the effort all in vain,
And the bitter disappointment,
Understood the loss and gain—
Would the grim, external roughness
Seem, I wonder, just the same?
Should we help where now we hinder?
Should we pity where we blame?

Ah! we judge each other harshly,
Knowing not life's hidden force;
Knowing not the fount of action
Is less turbid at its source.
Seeing not amid the evil
All the golden grains of good;
Oh! we'd love each other better
If we only understood.

Since "we'd love each other better
if we only understood," why not try to understand? And failing to understand, why not make allowance for each other?

At this season of the year when all the beautiful things which were in hiding during the days of frost and snow are creeping up to bask in the sunshine one wishes that every ugly thing could be banished from off the face of the earth. That may not be, of course, but there are many ugly things lying about most homes which might be banished and others which might be screened, and nearly every home might be further improved by the planting of trees and shrubs and vines—so let us hear our friend, Mrs. Vanderhoef, talk about farm homes:

A long ride over the vast rolling prairies of the Northwest, then a dip down into the valley which borders Lake Traverse, and one finds plenty to see and to learn. We passed many beautiful homes, and many more just as inviting looking, but far less pre-

tentious, with such a comfortable, homelike look one longed to sit in the cool, shady porch and look out over the well-tilled fields and the pastures with the sleek, contented cows and the waters of the lake creeping up almost to the very door. And then one comes to one of those homes (of which I am sorry to admit there are altogether too many) which lack the beauty, the homelike surroundings and the home look which is so attractive. It makes one draw a long sigh and think, "Well, this is a place where people stay, where they work and eat and sleep." It is not, in the true sense, a home. They have no lawns, no flowers, no beautiful surroundings; no shade inviting one to rest. And in a country place more than anywhere else in the world, it takes so little effort to give such pleasing and lasting effects. The farmer and his family are truly blessed, surrounded as they are by the beauties of nature. But many of them seem never to see or enjoy them. One farm home I have in mind now. They took it as a homestead over twenty years ago and had a large family of boys and girls grow up there. The buildings are rickety and without paint, doors hanging by one hinge and loose boards rattling in the wind. Not a tree nor flower; nothing to cheer, no shady lawn where they can rest and while away an hour at noon with the daily paper. Instead, right in front of the door are piles of old worn-out machinery, old wagons minus wheels, and battered buggies, and round about all grow and flourish great, rank weeds. Is it any wonder that the father has grown cross and fretful and the mother morose and discouraged, both old before their time? They call farm life tiresome and dreary and drudgery. They growl and complain because their boys left home and their girls while yet girls were away doing for themselves, deeming it pleasanter to fight life's battles alone than to live at home where there was nothing homelike or attractive. Yet I think they would be astonished if one even hinted that they were to blame. They never realized that it was their duty to make home as agreeable and pleasant for the family as possible. Tidiness, thrift and order, both on the farm and in the house, would have worked wonders in making life more happy, bright and cheerful for all. And one has so much help here in the country. The pure, fresh air and gleaming sunlight, the singing of the birds, the fields of waving grain—surely Dame Nature is rich and generous with her gifts to us. I wonder why people will persist in calling farm work drudgery all the time. It is just the way we get in the habit of looking at things. One woman will sit at the dinner table, cross and tired looking, her hair uncombed, her apron dirty, her whole attire crying out, "slouch." She complains to the family of her hard work and no time for rest or pleasure. Another will do just the same work, but in such a different way. While getting her fruit or vegetables for dinner she also brings a beautiful bouquet for the table and a flower for her hair or belt. She slips on a clean apron, rolls down her sleeves and sits down to her dinner with a pleasant word for the rest of the family. Oh, the quiet and peace and beauty of the right kind of farm home. Slowly, perhaps, for they have worked hard, American farmers have built up a fine, prosperous rural civilization. Starting often with small means they have nevertheless by dint of economy and perseverance succeeded. They worked (they did not drudge) and the spirit of hope lightened their labors, and they are now beginning to enjoy the fruits of their labors.

Mrs. Vanderhoef is an optimist and so even when she finds fault she is not discouraging. Her little preachment should stir us all up to try to put our homes in the class of those which inspire by their thrift and cheer.

It is late for planting in some places, but still early enough for transplanting in many others, so perhaps this little garden talk will spread beauty in the cool shadow of the north side of many homes:

Have any of the readers of this paper tried raising sultanias in a bed on the north side of the house? Let me tell you about mine last summer. We have no trees on the north side of the house to shade the spot. I had tried to raise pansies in this bed the year before, but they grew so thin and weak on account of so little sunlight that I thought I would try some other freely-blooming plant. After preparing the ground by digging out the old soil and replacing it with rich soil brought from the north side of a long cattle shed where leaves and straw had lain and decayed, I planted my little sultania plants about May 1st, or after all danger of frost was past. Many of the plants were only slips, having no roots, pulled off of the larger plants I had kept over winter in the window in soil or water. I watered the little plants quite freely until well rooted and occasionally during the dry weather. They grew three feet high and were a blaze of beauty all summer and fall until frost killed them. One great advantage in raising sultanias to the busy housewife is that the old flowers need not be picked off to keep them in constant bloom, as is the case with so many other summer-blooming plants. They certainly repay one for the time spent upon them, I can assure anyone who will make the effort.

Speaking of flowers, I wish each one of this circle who grows them would



Painting About the House

THIS big 116 page book is free. It tells not only all about painting everything around the house, giving full information on the particular paint for every special purpose, such as enameling your kitchen cupboard, painting or varnishing your floors, finishing wood-work, screens and porches, but it also covers the entire subject of painting about the farm, giving exact information as to just what paint to use on what and why.)

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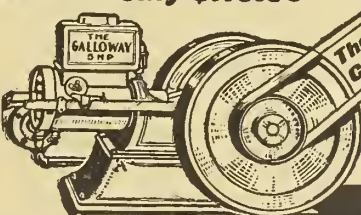
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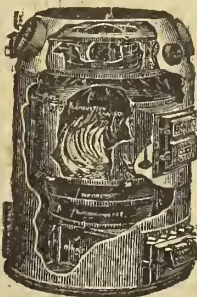
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excursion tickets are sold at especially low rates to Oklahoma and Texas with privileges of stop-overs. Such a ticket enables you to visit a large section of country—seeing for yourself what the Southwest offers. Will you go now, or wait longer until land prices advance to the top notch and the opportunities are all snapped up? Probably I can help you decide—at any rate write me for some literature and further information about the Southwest. 62

W. S. ST. GEORGE, G. P. A., St. Louis



When writing mention this paper.

take time for a little letter, telling which kind raised gives the most satisfactory returns for the sum invested. A little experience meeting of this kind would be interesting to flower lovers and might stimulate desire in others.

L. B. S., who lives on a 105-acre farm, comes with a word for us:

I live on what is called Evergreen Farm, situated in southern Iowa. We have taken this paper for a number of years, but think it better now than ever before. We like its new covers and are going to save them for passe-partout work, and the children's or young people's department which has just been added we think a grand feature. We like to read descriptions of different ones' homes and what they raise principally in their part of the country. We raise all kinds of fruit and grain here. We have a nice home—a house with eight rooms and closet; windmill just outside the kitchen door that pumps water for our own use, also for the stock at the barn, as we have a pipe laid to the barn which empties into a big tank. In the tank we have a heater which makes the water nice and warm for horses and cattle. We have a good, warm barn with cow shed and separator house attached, both with cement floors in. Also have lovely yard around the house with shrubs and roses in it, also cement walks out the front and back door. There are many beautiful evergreen trees around our home, thus its name, Evergreen Farm.

Did you ever know of a farm which had a name being run down and neglected? I never have, unless it changed hands and was let run to seed by the new owner. When a man gives a name to his farm it is because he takes pride in his place. It would be well were the fashion of naming homes more general than it is in this country. There are quantities of names to choose from. I wish our circle might discuss the matter a bit and get up some sentiment. Who that has named their farm will write and tell how it came about?

DRESSMAKING—No. 73.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

The skirt that tends to give a slender effect to the figure is a favorite one. This model includes one plait at each seam, and these tucks provide just becoming fullness and also mean long lines. It is seven gored and the seven-gored model is always a well-fitting, satisfactory one. It will be found appropriate for gowns, coat suits and for separate skirts and for almost every fashionable material, for in these days we make thinner and lighter fabrics simply, as well as the heavier ones. The tucks are stitched flat well below the hips so that the skirt fits with perfect smoothness, but they are pressed to position only below the



[6596 Seven-Gored Skirt, 22 to 32 Waist.]

stitchings so that they flare prettily and comfortably at the lower edge. Inverted plaits and the habit back are equally in vogue and the skirt allows a choice. As it can be made either in round or walking length it is adapted both to the street and the indoor gown. The skirt is cut in seven gores. There is a plait in each gore at the back edge, which is lapped over onto the succeeding gore, so concealing all

seams. When habit back is desired the back gores are cut off on indicated lines.

The quantity of material required for the medium size is 9½ yards 24 or 27, 5¼ yards 44 or 52 inches wide when material has figure or nap; 8 yards 24, 7½ yards 27, 4 yards 44, 3½ yards 52 inches wide when material has neither figure nor nap. The width of the skirt at the lower edge is 3¼ yards.

The pattern 6596 is cut in sizes for a 22, 24, 26, 28, 30 and 32 inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

The simple little frock that is made full and joined to a yoke is always the prettiest for the tiny children. This one includes a panel at the front that allows effective use of embroidery or other trimming and is exceptionally dainty and charming. As illustrated it is made of white lawn with trimming of embroidered edging and banding, but all materials that are used for little folks' dresses are appropriate. The frill can be of the material either hemmed or hemstitched or it can be omitted and the dress finished with a hem only. If the embroidery on the panel means too great labor it can be cut from all-over material or trimmed with bandings or medallions. The neck



[6597 Child's Dress, 1, 2 and 4 Years. 374 Embroidery Pattern.]

can be finished with a little frill as illustrated or with a straight standing collar, or it can be cut out as shown in the back view and the sleeves made short, so rendering the frock somewhat more dressy and also better adapted to the warmer weather.

The dress is made with front and back portions and with a panel that is cut in one with the front of the yoke. The dress is tucked and joined to this panel and to the back portion of the yoke and is closed at the back. Whatever the length of the sleeves they are gathered into bands.

The quantity of material required for the medium size (2 years) is 3 yards 24 or 27, 2¼ yards 32, 2¼ yards 44 inches wide, with 2¼ yards of embroidery 4 inches wide, 4¼ yards of banding to trim as illustrated.

The pattern 6597 is cut in sizes for children of 1, 2 and 4 years of age. The embroidery pattern 374, in one size only, and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents for each. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

An Atchison clergyman, in the course of a missionary sermon, was explaining why it was necessary to beg for funds, and told a story of a child of the slums who, for the first time, saw a cow. When he came home he said to his mother, "Mama, that isn't true what they said about the cow." "What isn't true," asked his mother. "The teacher," the boy replied, "said the cow gives milk. The cow doesn't give milk; they have to take it from her."

Lightning makes trees explode like overcharged boilers. The flame of the lightning does not burn them up, nor does the electric flash split them like an ax. The bolt flows through into all the damp interstices of the trunk and into the hollows under its bark. All the moisture at once is turned into steam, which by its immediate explosion rips open the tree. For centuries this simple theory puzzled scientists, but they have got it right at last.

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SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

SECOND QUARTER.

Lesson IV.—Matt. 11, 20-30.

April 24, 1910.

WARNING AND INVITATION.

Three times toward the close of Jesus' life he audibly and in the presence of others addressed his Father. Once at Lazarus' tomb; again after the "triumphal entrance;" finally from the cross. So when, in his early ministry, he broke out in the lofty exclamation, "I thank thee, O Father, Lord of heaven and earth!" we may judge that in this instance also the circumstances were solemn, the emotions strong, and the thoughts expressed of unusual importance. It is said that exposition cannot exhaust, dogmatic speculation can not fathom these sayings of Jesus.

Jesus' doctrine was on trial. A timorous faith on the one hand was inquiring, "Art thou really the Messiah?" On the other hand, a carping Pharisaical skepticism was saying, "He is a glutton and wine-bibber."

Jesus' only answer to both timid faith and unreasonable fault-finding was the axiom, "Wisdom is justified by her children." So in effect Jesus says, "My doctrine and myself are justified against all cavil, dissent, and distrust." "How justified?" "By my children." In this, to us uncommon saying, Jesus uses an everyday phrase to those who heard him, for a master's disciples were commonly called his children. Christians are the best argument for Christianity. The changed life is the best evidence of the divinity of the doctrine of Christ.

Jesus cites in this connection one effect which his "wisdom" produces. It is expressed in the golden word "rest." He lays a foundation for his summons to the sin-laden of earth by the affirmation of his oneness with his Father—exhaustive, exclusive, and reciprocal. By this means he could send his blissful invitation wide as the world and down all the ages, "Come unto me." He gives his peace not as the world gives its peace in a superficial and temporary manner; not by changing external conditions; not by administering opiates; not by exempting from trouble.

The rest which Jesus gives results from the taking of a new yoke—the bearing of a new burden. This is a figurative description of submission to him. Jesus is himself an example of the obedience, meekness, and holiness which he enjoins on others, so he could well say, "Learn of me."

The Teacher's Lantern.

Any one who imagines Christianity a superficial or unphilosophical system is commended to the eleventh chapter of Matthew. Here are depths like the deep-sea sounder finds in the Atlantic. Yet there is no cold scholasticism, no use of words to hide meaning. All is practical and helpful. As earth always has a dark side, so in the orb of Jesus' teaching there is always a dark hemisphere—against the "beatitude" there stands the "woe." He upbraids those who persist in unbelief in spite of irrefutable evidence. He affirms a day of judgment and wrath; an irreversible separation of good and evil; degrees of punishment proportionate to light against which sin has been perished in; a flat denial of fatalism—events might turn out differently; Sodom might have remained. When Jesus says the things of the kingdom are recognized by babes, he puts a premium not on ignorance, but upon teachableness. Rejected by the sanhedrim of scholars he made a sanhedrim of fishermen. In the circle of every one's acquaintance is some humble, unschooled person, who, unconsciously to himself, interprets in conduct the deepest teaching of Jesus. It is said that there are a half million of Americans suffering nervous prostration. Their trouble is more moral than physical. They have lost the equilibrium of life. Jesus restores it when he gives rest. It is not the repose of the rocking-chair, not immunity from toil, not the oblivion of stolidism. It is poise, that greatest of possessions—self-possession. Even Jesus

cannot mechanically lift moral burdens. Those who have them must put themselves in the way of relief. When the disciple takes Jesus' yoke he is hooking himself up with his Master. Henceforth they are yoke-fellows. They tug at the same load. Paul Laurence Dunbar expresses the thought that the noblest character is not developed by exemption from struggle in his fine hymn, "The Warrior's Prayer:"

Long since, in sore distress, I heard one pray,
"Lord, who prevailest with resistless might,
Ever from war and strife keep me away,
My battles fight!"

I know not if I play the Pharisee,
And if my brother after all be right;
But mine shall be the warrior's plea to thee—
Strength for the fight.

THE COUNTY ROAD SUPERINTENDENT.

To the Editor of The Homestead:

I read an editorial in your paper recently in regard to the need of a county superintendent of highways, with considerable interest, but can't say that I wholly agree with you as to the need of that official, especially as a permanent fixture. I think it has been fully demonstrated that the roads of the county should be under the control of the county board of supervisors, instead of the township trustees, as the township is too small a unit to provide that uniformity in road construction which makes for the greatest good to the traveling public. That can only come by putting the roads under some central authority for their location and construction. But while the township is too small to secure the best results in the construction and location of roads, it is too large to utilize the individual interest each man feels in the roads of his own neighborhood. That could best be served by delegating the task of maintaining them to the school districts, as part of the duties of the school board. A man with a four-horse team and a light grader could go over all the roads in the average school district in a couple of days in the spring, when the roads need the ruts filled up, and that once done, their maintenance by the drag for the rest of the year would be an easy matter. In case of the construction of new roads, or extensive repairs of existing ones, it would probably be necessary for the county board to employ some competent engineer to superintend the work, but I see no reason why his need be a permanent job. I believe the county board and the boards of the various school districts working together can get more results out of the road tax than is possible under the present system.

William Williams.

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Self Adjusting To Rolling Ground

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This is the patent Swinging Joint.

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LOUDEN FEED AND LITTER CARRIERS

LOUDEN FEED CARRIERS run on solid steel track and raise and lower by our special worm gear. A pull of one pound lifts 40 pounds.

LOUDEN LITTER CARRIERS are made with the same truck and raising device as the Feed Carriers. The box is made of heavy galvanized sheet steel reinforced at top and ends with angle iron. We also furnish a carrier for wire track. See Louden Carriers, Hay Tools, Door Hangers, Stalls, Stanchions and other barn equipment at your dealers, and write us for our Free Catalogue.

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in any community is the last resting place of loved ones, and if only as a mark of respect it should be fittingly kept and made proof against desecration.

Cyclone Cemetery Fence and Gates

are designed to harmonize with and beautify the old burying grounds. They last for years, are stock proof and much cheaper than wooden fences. Write for our fine, free illustrated catalogue. Address

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THE YOUNG FOLKS

LIKES THE PRETTY FLOWERS.

I enjoy raising chickens better than any other farm work I can do. I enjoy living on the farm because in the summer time I can wander about the fields gathering the beautiful flowers and listen to the birds singing in the beautiful, shady woods. The nicest work I have is planting pretty flowers and vines in the springtime. I always like flowers in the yard. Hoeing in the garden is the hardest work I have to do, but I don't mind doing it. I have two brothers and one sister. My brothers' names are Charlie and Joubert and my sister's name is Margaret. I am a girl of fourteen years of age and am very large for my age. We live on a farm of sixty acres close to a large town called Benton, in the state of Illinois. Kate Webb.

A Good School Record.

I live in the country and go to a country school. I am in the sixth grade and like to go to school very well. I go to a lady teacher and like her pretty well. I have gone to school three years without being absent or tardy once. We only have eight months' school in a year. We had two weeks' vacation this Christmas. I go to school in the winter while there is school, because my father and mother want me to have an education. When school is out in the spring I have to help my father farm and in the evening and morning I have to help my mother. The things in farming that I like best are cultivating, listing corn in, and husking corn. I have for pets a dog, cat and three squirrels and a few other pets. My dog is a very smart little dog, and is yellow and white. His name is Jack. We have taught him to sit up and speak when he wants anything. Ray Remley.

When Mother Is Sick.

I am thirteen years old. I like to live on the farm better than in town. I do the housework, but I do not tend to the chickens. My mother is sick and my sister is staying with me. I like to keep house very well and we have lots of work to do. I wash dishes, scrub the floors, make up the beds and help do the cooking. I like to do fancy work. I have one brother and two sisters. I have a married sister living in Independence, Kan. She has been down helping me keep house for the last week, but she has now returned home. My sister from Elk City, Kan., our home town, is helping me now. I like to work in the house better than outdoors. This is the first time I ever tried keeping house alone. I have broken a crock, jar and a cream pitcher. We have our washing done; therefore, I do not have to do. We burn gas in the cook stove. It is much nicer than wood. I think washing is the hardest of the housework, because we have to do it ourselves when mother is well. Grace Pinkston.

Plenty of Good Exercise.

I am a farmer's daughter and we live on a forty-acre farm. I am fourteen years old. What I like to do best on a farm is milk the cows and take care of the horses. I like outdoor work better than indoor work. When anybody lives on a farm they have plenty of good exercise. I like living on a farm better than living in town. When anybody lives on a farm they can have nice pets. I have a cow and calf and a cat and a horse. My favorite pet is the horse. I like to see animals treated kindly. My pet horse will eat corn and lick salt off my hand. His name is Dick. I can do anything in the house, such as making beds, and mixing and baking bread. We have lots of chickens and several geese. I like to gather the eggs and feed little chicks and goslings. They are so cunning. How many of you country cousins like to hear little birds sing? Here is one

who does. When I get lonesome I can go out to the grove and listen to the songs of the happy little birds and I soon forget I am lonesome. It makes me happy as well as the little birds to hear them sing so sweetly. I have two sisters and two brothers. I go to school and am in the seventh grade. I like to go to school. I have seven studies. My teacher's name is Della Miller, and I like her very much because she is so kind. Opal M. Rogers.

Doesn't Like Dish Washing.

I am a girl of fifteen years of age. I live on a farm of 320 acres. My father has twelve head of horses, three cows and a lot of hogs. I have five sisters and three brothers, two of whom are married. I like to work in the house very much, but do not like to wash dishes at all; would rather wash and iron clothes. I think the work in the house is the best because it isn't so cold as it is outdoors in the winter time, where the boys have to work. I would not mind being a boy in the summer time, but when winter comes I would rather be a girl. Blanche Harrold.

A Little Mother.

I like to wash dishes and sweep and dust, but I do not like to wipe dishes because that is my part of the work. My mama died four years ago and we have to do the work. I have three sisters and two brothers. I like to tend the chickens best of all. I used to go out in the fields and drive the horses while they put the hay on the wagon. I stand up in front on the front boards of the hay rack and drive. I like that, too. My brother wants me to help him get in the wood at night, but before he was big enough to get it in my sister and I used to do it, so I don't like to very well. I like to give the horses their feed and hay, and curry them. But best of all, I like to ride our pony. She is a pacer and is chestnut brown. We milk five cows, but I cannot milk because my wrists give out. But my brother has gone to Nebraska, so my smaller brother and papa have to milk now. We have lived on the farm where we are now living, for seven years. Don't you think that's a long time? Two of our hens have gone to setting, but we haven't set them yet. Mattie Foreman.

Going After the Cows.

I am a girl, thirteen years old. I live on the farm. My papa owns a big farm of 240 acres. Our land joins on the Wolf river. I love the farm much better than the city. I was in the city seven weeks last spring and was glad when I could get back on the farm, where I could run and play in the green grass as much as I liked. I live four miles from a village called Embarrass, Wis. I go to a country school called the Wolf River School. I am in the seventh grade. I like school very much and study very hard trying to get through next year. It takes up most of my time studying, but I try to help about the farm as much as I can, feeding the chickens and gathering the eggs and helping about the house. We have four horses, twenty head of cattle and twenty hogs. I have five brothers who take care of the stock. One of our horses is nineteen years old, but some people think he is a colt. He is such a nice, gentle horse that we would never sell him. My papa said he was going to stay with us as long as he lived. Our pigs are very tame. I often go in the barn and rub their backs, and they like it very much. I love to go after the cows in the summer time. We have a large dog that always goes with us after the cattle. He also likes to play with us. He is a very big dog and is a light brown color. Bernice Hill.

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Find out how we supply you with your Telephone Lightning Arrester Free.

Send your name direct to our factory. Just be sure to say whether you now have any kind of lightning rods, and we will send you our Free Book—all facts—statistics, and tell you how to get this Arrester Free. Use a postal, a letter or the coupon below. Write today.

SHRAUGER, JOHNSON, NELSON CO.
101 Shrauger Street, Atlantic, Iowa

THERE'S never so good a time as now to investigate our new, liberal, safe and guaranteed plan of protecting your life, your family and your property against the great dangers of lightning. We have something new to tell you.

No other manufacturers, or anybody except credited Shrauger factory representatives, can protect you as we do against unreliable materials. The day of the old-time fraudulent methods of discredited "lightning-rod agents" is over.

Write direct to our factory and investigate our "Shrauger" Products and Plan. If you write us whether your buildings are now equipped with lightning rods, we will tell you how to get one of our Telephone Lightning Arresters (worth \$2.50) Free.

This illustration below shows our Free Telephone Lightning Arresters, which will absolutely protect you against lightning entering your house by your telephone—to destroy life or property.

Free



\$2.50 Lightning Arrester

FREE

To get this free offer, just say whether you now have lightning rods or not—

Yes?.....
No?.....

BOOK FREE ALSO

SHRAUGER, JOHNSON, NELSON CO.
101 Shrauger Street, Atlantic, Iowa.

Send me your Free Book—all facts—and tell me how you supply me with your Telephone Lightning Arrester Free.

Name.....

Town.....

State.....



WILL YOU TRY MY LITTER CARRIER STANCHION OR COW STALL — AT MY RISK

J. D. James
SANITARY BARN
EQUIPMENT MAN

I guarantee your perfect satisfaction in every respect. The trial will not cost you one cent. Are you thinking of putting in a Litter or Feed Carrier, Stanchions, or Cow Stalls? Are you building or remodeling your barn?

Write to me and I will show you how I can save you money and tell you all about JAMES Litter Carriers—Stanchions—Cow Stalls and other Barn Equipment.

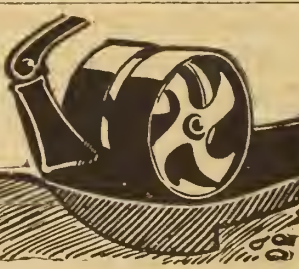
They are the standard among dairymen and stock raisers. Approved by experts, and representatives of the United States Bureau of Animal Industry.

Write for large colored folder fully describing and illustrating "James" New Improved Alignment Stanchions and Sanitary Cow Stalls. Also latest catalog and prices on "James" Feed and Litter Carriers. A postcard will do. Write today.

KENT MFG. CO., W. D. JAMES, Mgr.
164 Cane Street, Ft. Atkinson, Wisconsin



It's Easy to Grow



100 BUSHEL CORN with Keller's Rotary Corn Planter Gauge

ALL your seed corn is bound to come up because every kernel gets planted the right depth. Our gauges fit any make of corn planter, and make the seed cut just so deep, no matter what the speed or how uneven the ground. No clogging; no sticking; the wheels roll down the trash and make planting easy for you and your team. You harvest ALL the corn you plant, instead of only part of it, and get 100 bu. per acre where you've been getting 60 or 80. Our No. 1 Gauge has wheels 2 1/2 x 7 in., and single clamp. Price \$5 per set, complete with scrapers. No. 2 has wheels 3 1/2 x 10 in., and a powerful double grip clamp. Price \$6 per set, complete with scrapers. No. 3 is an improved Slide Gauge, made for those who still prefer this style. Long, wide blades, 3 1/2 x 20 inches. Price \$5 per set. All prices include free delivery to your nearest railroad station. Get our special money-making proposition, also our FREE BOOKLET. Don't risk forgetting it; write TO-DAY to

P. O. KELLER MFG. CO., Waterloo, Iowa

When Writing to Advertisers Please Mention This Paper

Live Stock Sales

The Jefferson City, Mo., Horse Sale.

The sale of saddle and speed horses, held at Houchin's driving park, by Mr. Jas. Houchin, of Jefferson City, Mo., on April 11th and 12th, could scarcely encounter a more disagreeable day than on the first day. The rain came in sheets and as horsemen want to see horses shown, the first day's program was given up. On the second day Mr. Houchin showed that his heart was in the right place by giving way to those who had consigned horses to the sale. A goodly number of horsemen had come to Jefferson City for the two days' sale and all but a few stayed for the second day, even though the weather man gave no promise of any better conditions. Lot 30, Chief, a five-year-old bay gelding saddle and harness horse, of Messrs. Houchin and Anderson's consignment, sold to Mr. Clem Ware, of Jefferson City, Mo., at \$500. Lot 4, Ah Marie, six-year-old bay pacing mare, consigned by Mr. W. B. Taylor, of Sedalia, Mo., sold to Mr. Wm. Wingate, of Maysville, Mo., at \$500. Lot 52, Queen of Denmark 6686, a chestnut saddle mare consigned by Messrs. J. S. Harrison & Son, of Auxvasse, Mo., also sold at \$500 to Mr. E. B. Moore, of Mexico, Mo. These were the highest-selling horses. Lot 9, a five-year-old standard-bred trotting horse, consigned by Mr. R. E. Spurgeon, of Olathe, Kan., went to Mr. E. T. Cox, of Pearl, Mo., at \$455. Countess Lee, a bay mare of Mr. W. B. Taylor's consignment, sold to Mr. F. E. Moore, of Cole Camp, Mo., at \$315. Lot 43, Imogene, consigned by Mr. W. H. Muller, of Jefferson City, sold to Mr. D. D. Dudley, of Mexico, Mo., for \$360. Miss Nalo, of Houchin and Anderson's consignment, sold to Mr. J. C. Holland, of Auxvasse, Mo., at \$310. Lot 65, Mayla, a seven-year-old seal brown saddle mare, consigned by Mr. A. B. Maddox, of Fulton, Mo., sold to Mr. Robt. M. Brown, of Louisiana, Mo., at \$340. Dr. Piper, a pacer, consigned by Mr. W. O. Mullins, of Junction City, Kan., went to Mr. W. E. Taylor, of Sedalia, Mo., at \$340. Togo, a six-year-old bay saddle horse, consigned by Mr. Doug Turner, of Jefferson City, Mo., went to Dr. M. W. Stinner, of St. Joe, Mo., at \$365. Miss Nicolson, a three-year-old steel gray saddle mare, consigned by Mr. W. E. Nicholson, of Fulton, Mo., went to Mr. Jno. E. Swanger, of Jefferson City, Mo., at \$380. On the forty-nine head sold a general average of \$233.82 was made. Other buyers were Kelse Smith, Albany; Frank Harris, California; Wright Clark, Jefferson City; C. E. Davis, Jacksonville, Ill.; Geo. Lee, Mexico; Walter Kemp, Sedalia; Lee Carpenter, Sedalia; Fred Whiteside, Columbia; T. J. Ong, Fulton; Dr. C. D. Osborn, High Point; Jake Buchter, Lohannon; J. D. Garrett, Enon; Jno. Arnold, Williamsburg; J. R. Hutchinson, California; Frank Dallmeyer, Jefferson City; H. J. Bergeaman, Newton, Iowa; T. E. Stephenson, Gonzales, Tex.; T. E. Gorman, Centalla; E. M. Greenway, New Bloomfield; Homer Marshall, Jefferson City; Homer Markham, Jefferson City; Ed. White, Ft. Scott, Kan.; C. E. Dunlap, Fulton; Kemp Hieronymus, Sedalia; Frank Schnuders, Wardsville. Col. Bob Harriman, the veteran horse salesman, led in the selling and was assisted by Colonel Mitchell, of Albany, Mo., and Hieronymus Bros. and others.

The Andrews-Robinson & Co. Sale of Aberdeen Angus.

The sale of Aberdeen Angus cattle held at Maryville, Mo., on Tuesday, April 12th, by Messrs. W. W. Andrews and J. B. Robinson & Co., of Maryville, Mo., was a success. These gentlemen offered some of their best productions and that their cattle were appreciated is shown by the general average of \$220.42. The bulls sold did not bring the prices expected and several decided bargains were to be had. Lots 25 and 34 of the bull consignment sold at \$180 each. Lot 25, a yearling son of Messrs. Robinson & Co.'s former herd bull, Black Pedro, went to Mr. Robt. McCuen, of Byron, Ontario. Lot 34, Even Erica, a fashionably-bred Trojan Erica that Messrs. Robinson & Co. had used for two seasons, was taken by Mr. W. A. Holt, of Savannah, Mo. Mr. Holt secured in this bull a good breeding bull. Mr. McCuen was also a liberal bidder on females and purchased several. Mr. C. H. Maize, of Pattonburg, Mo., secured a great bargain in the under yearling Trojan Erica bull, Erica's Black Lad, a son of Black Lad 2d. This bull was consigned to the sale by Messrs. Caldwell & Son, of Burlington Junction, Mo., and is a worthy representative of their herd bull. Mr. Stanley R. Pierce, of Creston, Ill., topped the sale, paying \$670 for Lot 30, Elenora, by Black Pedro, with cow calf at foot. Mr. Pierce was the heaviest purchaser at the sale. Mr. P. J. Donohoe, of Holbrook, Iowa, took Blackbird's Beauty 2d, a daughter of Black Monarch of Emerson, at \$505, the next highest price paid. Rosegay Blackbird, with cow calf at foot, also went to Mr. Donohoe at \$470 and was a decided bargain. Mr. Wm. Cash, of Williamsburg, Iowa, secured a bargain in the yearling Blackbird heifer, Blackbird Lady 10th, at \$400. Mr. Cash was a liberal supporter on the better sorts. One of the decided bargains of the sale was Blackbird of Cross Keys with a carking good bull calf at foot. She went to Mr. G. W. Sweltzer, of Harrisonville, Mo., at \$355. Messrs. Chas. Escher & Son, of Botna, Iowa; Jas.

LANDS AND HOMES FOR SALE

WESTERN CANADA

Prof. Shaw, Well-Known Agriculturist, Says:

"I would sooner raise cattle in Western Canada than in the corn belt of the United States. Food is cheaper and climate better for the purpose. Your market will improve faster than your farmers will produce the supplies. Wheat can be grown up to the 60th parallel (800 miles north of the international boundary). Your vacant land will be taken at a rate beyond present conception. We have enough people in the United States alone who want homes to take up this land." Nearly

70,000 Americans will enter and make their homes in Western Canada this year. 1909 produced another large crop of wheat, oats and barley, in addition to which the cattle exports was an immense item.

Cattle raising, dairying, mixed farming and grain growing in the provinces of Manitoba, Saskatchewan and Alberta. Adaptable soil, healthful climate, splendid schools and churches, and good railroads. For settlers' rates, descriptive literature "Last Best West," how to reach the country and other particulars, write to Sup't of Immigration, Ottawa, Can., or to the Canadian Government Agent.

W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn. (Use address nearest you.) (6)

MONEY IN MEXICO

Enormous profits are being made in the Pan-American district—along the line of the Pan-American Railway. Seaboard and Panama Canal connections. Step off the Pullman car on to the richest agricultural land in the world. Fortunes being made in staple crops and fruits. Western farmers pouring into this district. Best land now selling very cheap and on long terms. An unusual opportunity to make money whether you want to cultivate land or re-sell at big profit. Write quick for free book "The Richest Land in the World" and full details how to get some of this land.

Mexican Republic Colonization Co., 351 Midland Bldg., Kansas City, Mo.

WANT a good farm? Then come to Lyman Co. I am the man for you—J. C. RUSSELL, Draper, Lyman County, South Dakota. Why? Because I can sell you a good farm one and one-half mile from Draper; eighty-five acres under plow; all fenced; good well; nice little house. Price, \$25 per acre; terms to suit. THIS IS A SNAP.

COLORADO LANDS

SEND for our lists; get on ground fast; will take good automobile in trade; Western Kit Carson Co. Address G. A. Gibson, Manager, Sheldon, Iowa, or Flagler Loan & Investment Co., Flagler, Colorado.

Lyman Co. Lands

A SNAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. HAGLER LAND CO., PRESHO, S. DAK.

Reliable Information Absolutely reliable, unbiased information concerning any project, town, section or industrial condition in the Northwest for \$1. We have nothing to sell but information; anything you want to know. Write today. Northwest Information Bureau, Dept. A 3, Box 551, Spokane, Wash.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address BERT I. WELD, SLAYTON, MINNESOTA.

FINE Iowa farm for sale. Half section highly improved; six miles from Sioux City; house, fine barn; good system of water works; good orchard; fine grove; near school, and everything to make it a fine farm. Owner, J. A. Whitaker, Sioux City, Ia.

FOR SALE to a discerning buyer, 230 acres best land in Howard County, Iowa, at \$75. Improvements cost \$25 per acre. Box 305, Waterloo, Iowa.

SUMNER COUNTY, KANSAS, FARMS

H. H. Stewart & Son, Wellington, Kansas.

Williams, Marcus, Iowa; A. C. Binnie, Alta, Iowa; Caldwell & Son, Burlington Junction; H. L. Cantine, Quimby, Iowa; J. Auracher, Shenandoah, Iowa; J. C. Fryar, Ravenwood; F. E. Wakeman, Bedford, Iowa; M. McClees, Hopkins; A. Lawson, King City; White Bros., Perry, Iowa; R. S. Williams, Liberty; J. W. Butts, Bedford, Iowa; J. F. Longley, Maryville; W. A. Berg, Parnell; F. E. Wakeman and Joe Cox, of Boone, Iowa, were also buyers and supporters. Thirty-nine females sold for \$9,405, average \$241.10; eight bulls sold for \$955, average \$119.25; forty-seven head sold for \$10,360, average \$220.42. Colonels Igo, Binnie and Judy were the auctioneers.

Dr. Logan's Hereford Sale.

The sale of Herefords held by Dr. Jas. E. Logan, of Kansas City, Mo., at Kansas City, on April 16th, did not meet with the doctor's expectations. Breeders from a wide territory were present, but a large part of those present felt that they had about all the cattle they could well handle, and as a result when thirty-eight head had been disposed of Dr. Logan announced that rather than bore his guests he would bring in any lot number desired or price privately any cattle anyone present might desire of those remaining unsold. Prices ruled low considering the breeding and quality of the offering. Lot 5, Perfection, and Lot 8, Saint

"California Now or Never"

"The Kuhn California Project" will irrigate 250,000 acres in the famous Sacramento Valley. The land is ready! The water is ready! Are you ready? The sale of these rich valley lands has just begun in tracts of 10 to 80 acres. Small payment down, then ten annual payments.

The valley is garden soil, 50 feet deep, yielding immense crops of fruit, alfalfa, sugar beets and all the famous products of California. Mature orange groves on these lands have yielded as high as \$1,000 per acre. If you are going to have a farm, why not have the best? The Kubus are always looking for the best, and their experts tell them in this enterprise they have found it. They are putting millions of dollars into improvements to make it still better. The land is close to big markets and will pay for itself.

You take no chance in buying land under the Kuhn projects. The Kuhn interests are irrigating 400,000 acres in the Twin Falls Country, Idaho. Their great Sacramento Valley project offers an almost frostless winter and a still wider range of crops. Organize a California Colony in your own city or town. Take your neighbors with you.

Just published a very choice book of 48 pages, "California—Now or Never." It is by far the handsomest California book ever issued and will show you at a glance whether you want a home ranch in California. To insure a select distribution, it is priced at ten cents. All other publications which are fully descriptive are free. Fill out the coupon below and mail. If you want the new book, enclose ten cents for each copy.

H. L. HOLLISTER, Dept. I, 205 LaSalle Street, CHICAGO, ILL.

Please send free information about Sacramento Valley Irrigated Lands to the following address:

SOUTH DAKOTA CORN LAND

Alfalfa and stock. We have a large lot of improved and raw land from \$20 to \$35 an acre on easy terms. Address TOWNSEND LAND & LOAN CO., MURDO, SOUTH DAKOTA.

SOUTH DAKOTA LAND in LYMAN COUNTY

The choicest of land; all kinds of grain raised; plenty of water. Prices range from \$15 to \$35 per acre. Write for Free Love-Carter Land & Loan Co.'s (Inc.) free price list, Kennebec, South Dakota.

BUY A HOME IN SUNNY SOUTH DAKOTA

We have choice bargains in farms and ranches. Write us for further information. THE O'RIELLY LAND COMPANY, DRAPER, LYMAN COUNTY, SOUTH DAKOTA.

BUY LANDS IN EASTERN LYMAN COUNTY

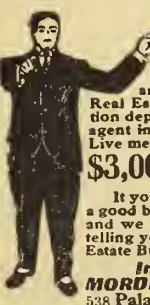
WHERE corn, alfalfa, cattle and hogs are the money makers and small grains cannot be beaten. Price, \$15 to \$35 per acre. Large list of improved and unimproved lands for sale on liberal terms. For price list or information, address THOS. F. MCGUGAN, KENNEBEC, SOUTH DAKOTA.

SOUTH DAKOTA

ARE you interested in South Dakota, the state that is leading all other states in the production of wealth per capita? If so, send for free literature on Brule County and South Dakota. No agents need apply. I sell direct to purchasers, who save from \$1 to \$5 per acre commission. J. A. Stransky, Pukwana, S. D.

FOR SALE—200 ACRES

CHOICE FARMING LAND near Rapid City, South Dakota. Will grow corn, alfalfa, and small grain and fruit. Good water, good soil and good climate. Write for price and full description. Deal direct and save agents' commission. W. F. CASEY, RAPID CITY, SOUTH DAKOTA.



YOU Can make more money in the Real Estate business, with less capital than anything else. We teach you The Real Estate Business through our instruction department and then appoint you our agent in your territory and work with you. Live men make \$3,000 to \$10,000 a Year. If you are ambitious and want to get into a good business for yourself, write us today and we will send you our FREE booklet telling you HOW we teach you "The Real Estate Business."

Instruction Department,
MORDEN LAND AND LOAN CO.,
538 Palace Bldg., Minneapolis, Minn.

TO HOME BUYERS

WHERE can you beat these farms for the money? 255 acres near Sac City and Nemaha, Sac Co., Iowa; 30 acres; some rough with timber, along Coon river, balance gently rolling to level; farming and grass land; good house five rooms; barn 42x56; other small buildings; grove; scales. Price for quick sale, \$75 per acre; carry \$10,000 loan at 5%. 210 acres adjoining town; rolling and some hilly; first-class soil; watered by small creeks fed from springs; some timber; good grove; house 6 rooms; barns and sheds; near Catholic and public high school and churches. Buy this; live in town, yet on a farm; fine for stockman. Carry \$7,500, 5%; a bargain at \$80 an acre. Iowa, South Dakota, Minnesota land bargains; we have them. S. R. LUCAS, ANTHON, IOWA.

Mr. Farmer or Stockman

WE have a number of bargains in good farm or ranch propositions in Charles Mix county, the corn belt county of South Dakota at reasonable prices and terms. If interested, write

C. VANDERBOOM, Platte, South Dakota.

... BUY ...

South Dakota Land

KADOKA, STANLEY COUNTY.

RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gift-edge farm mortgages for sale. For description, write

F. E. Reidinger Land Agency, Kadoka, S. D.

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address

The Allen Co., Investment Co., Longton, Kan.

Iowa Lands For Sale

in Howard county, \$50 to \$90 per acre. Large list on request. Address, SPAULDING & O'DONNELL, Elma, Iowa.

We Mean It!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

BUY SOUTH DAKOTA LAND

A LARGE list of improved and unimproved Lyman County farm lands for sale. Good land from \$15 to \$25 per acre. For maps and description, write the Murdo Mackenzie Land Co., Murdo, S. D.

FOR SALE—Highly improved farm of 160 acres in Howard Co., Ia. Well fenced; good buildings; German neighborhood; \$85 acre. Box 305, Waterloo, Ia.

Julian, both sons of Dr. Logan's herd bull, Young Beau Brummel, sold at \$300 each, the top price of the sale, Perfector going to Mr. A. W. Elliott, of Reynolds, Ill., and Saint Julian to Mr. J. F. Sifers, of Hutchinson, Kan. Lot 13, Prince George by Young Beau Brummel, went to Mr. Joab Mulvane, of Topeka, Kan., at \$250. He was one of the best bulls of the sale and a great bargain. Lot 6, Ardis, a show heifer, was taken by Mr. A. W. Elliott, of Illinois, at \$250, the top on females. The other show heifer, Dorothy Perkins, with young heifer calf at foot, sold to Mr. T. J. George, of Gun City, Mo., at \$230. Mr. J. Z. Hartzler, of East Lynn, Mo., took the neat yearling, Lady Desborough, at \$175, and the two-year-old, Meadow Breeze, at \$185. Mr. H. B. Cornish, of Osborn, Mo., secured a bargain in the two-year-old heifer, Crimson Rambler. Mr. Samuel Drybread, of Elk City, Kan., took a couple of good young heifers at bargain-counter prices. Messrs. W. B. & J. M. Rogers, of Beloit, Kan., were also good buyers. Other buyers were Chas. Hudson, Tascott, Kan.; J. F. Fahlstrom, Concordia, Kan.; A. R. Lawyer, Mead, Kan.; C. G. Comstock, Albany; C. Andrae, Ellinwood, Kan.; J. B. Sims, Neal, Neb.; Albert Dillon, Hope, Kan.; J. F. Richards, Kansas City; Roman Goss, Dwight, Kan.; J. W. Tollman, Paola, Kan.; J. A. Shade, Kingsley, Iowa. Colonels Edmondson, Sparks and White were the auctioneers.

IOWA WEATHER AND CROP BULLETIN.

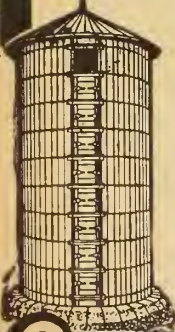
The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending April 17, 1910:

The first half of the week was warm with occasional light to moderate, but well-distributed showers. The latter part was much colder, ending with the temperature 8 to 15 degrees below the freezing point and general snow flurries. The precipitation was timely and very beneficial, especially in western sections where drouthy conditions had prevailed for seven weeks, but there was not enough of it to materially interfere with field work until Saturday. As yet it is not possible to ascertain the extent of damage caused by freezing weather to fruits, garden truck and early seeded cereals, but fruits and garden truck are undoubtedly seriously injured. The soil is in fine working condition and rapid progress was made in plowing and preparing for corn planting. Considerable corn was planted in nearly all sections of the state and some of it is up. Grass and all small grains were doing well until Saturday, but the snow and freezing temperature will check the growth of grass, and has to some extent injured the grain crops.

Geo. M. Chappel,
Station Director.

Special Offer

For the Farmer who is Ready
For a Silo



This offer is good for only 30 days. It's an offer worth while to the man ready for a Silo; it's one that will induce you to get ready if you are hesitating. You'll save money and you'll get a better Silo than you will be able to get four months from now for \$50 more money. Material and labor are advancing in cost—still we offer you the best bargain of all; one none can duplicate—one we could not hope to offer four months from now. Read on. Discover why we make this unusual offer. Then write today for full particulars.

Saginaw Silos

Are Money Savers
And Profit Makers

Last season we took advantage of low markets—bought an unusually fine lot of material—enough for 1,000 Silos. We have enough for 300 left and when these are gone we will be compelled to advance our prices. If you are now ready, or will be in a short time, don't overlook this opportunity to get the best Silo of all at the price you will later be compelled to pay for the ordinary kind. Remember, this offer is only good for 30 days; so write today; tell us what size you require; let us make you our fair, liberal proposition and prove to you that our low price special offer is the best opportunity of all for the wide-awake, prudent man who wants a Silo and wants it now.

Whirlwind Ensilage Cutters are guaranteed to do the work and do it well. Let us tell you about them.



FARMERS' CO.,
OPERATIVE PRODUCE CO.,
200 9th St., Des Moines, Iowa.

STATE MAPS of Iowa, Illinois and Wisconsin, giving location of rivers, railroads, lakes, number of inhabitants of each town. This handy map only 20c. This offer good for one month only. Money back if not satisfactory. Address NELSON MAP CO., DEERFIELD, WIS.

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.
May 20, W. E. Cutler, Corydon, Iowa.
June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
June 2, J. G. Biller, Hartington, Neb., at Crofton, Neb.
June 14, Bellows Bros., Maryville, Mo.
June 16, N. A. Lind, Roife, Iowa.
June 17, F. M. Zenor, Woolstock, Iowa.
June 21, Jesse Binford & Sons, Liscomb, Iowa.
June 23, Combination sale, Chicago, Ill., Sidney B. Smith, manager, Springfield, Ill.
Dec. 6, Will C. Meyer, Carroll, Iowa.
Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
Dec. 14, C. A. Saunders, Manilla, Iowa.
Dec. 21, Ed Morgan, Kanaranz, Minn.
Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.
May 3, Marvin & Durrett, Chicago, Ill., M. A. Judy, Mgr.
May 31, H. J. Hess, Waterloo, Iowa.
June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
June 1-2, Chas. Escher & Son, South Omaha, Neb.
June 7, James Williams, Marcus, Iowa.
June 8, Stanley R. Pierce, Creston, Ill.
June 9, J. W. Wheatley, Kempton, Ind.
June 29, Combination sale, Chicago, Ill., Sidney B. Smith, manager, Springfield, Ill.
Oct. 4, Silas Igo, Indianola, Iowa.
Oct. 5, White Bros., Perry, Iowa.
Oct. 18, Christian-Lang Co., Omaha, Neb.
Oct. 19, Chas. Escher & Son, Botna, Ia.
Oct. 20, C. M. Russell, Carroll, Iowa.
Oct. 25, R. M. Anderson & Sons, Newell, Iowa.
Oct. 26, Lakeside Farm, Storm Lake, Ia.

Guernseys.
May 18, Wisconsin State Fair Grounds, Milwaukee, Wis., Charles L. Hill, Rosendale, Wis., sales manager.
May 19, Combination sale, Appleton, Wis., Dr. O. N. Johnson, Appleton, Wis., Secy.

Hereford Cattle.
June 30, Combination sale, Chicago, Ill., Sidney B. Smith, manager, Springfield, Ill.
Oct. 20, H. D. Clore and Z. T. Kinsell, Chariton, Iowa.

Holstein-Friesian Cattle.
May 25, Consignment sale, Watertown, Wis., E. E. Randall, Hustisford, Wis., and Sidney Jones, Watertown, Wis., Mgrs.
June 21, 22 and 23, Robt. E. Haeger, Algonquin, Ill.

Clydesdale Horses.
June 1, R. O. Miller, Lucas, Iowa.
Poland China Swine.
Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
Feb. 9, C. C. Polly, Whiting, Iowa.
Feb. 10, James Cockerton, Whiting, Ia.
Percherons and Belgians.
May 12, W. L. DeClow, Cedar Rapids, Iowa.

FIELD MEN.
M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.
Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Lincoln Hotel, Lincoln, Neb.
A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.
Clydesdale stallions are offered for sale by Mr. R. O. Miller, of Lucas, Iowa, on page 37.
Good Angus bulls are advertised for sale by Mr. John H. Fitch, of Lake City, Iowa, on page 37.
Messrs. Von Seggern Bros., of Wisner, Neb., advertise Duroc Jersey brood sows for sale on page 35.
Some excellent young Scotch bulls are offered for sale by Mr. W. H. McLaughlin, of Shelby, Iowa.
Some excellent Poland China brood sows are advertised for sale by Mr. F. W. McIntyre, of Red Oak, Iowa, on page 35. These are bred for last of April and May farrow.

Write Mr. Fred Tschudy, of Monroe, Wis., for his prices on Ayrshires. His last crop of calves was a very choice one and he will quote prices upon his young stock which will convince. His advertisement appears on page 36.

Mr. W. R. Gates, of Ft. Atkinson, Wis., always has a large supply of Holstein bulls, heifers and cows on hand. He is prepared to supply the trade at any time. Get his prices. See advertisement on page 36.

One of the greatest Guernsey sires in the middle West is Lord Waukesha, owned by Mr. William M. Jones, of Waukesha, Wis. Mr. Jones has a number of young bulls and heifers sired by this bull which should interest Guernsey men who are trying to improve

their herds. See advertisement on page 36.

Holstein-Friesian cattle are advertised for sale by Mr. Henry C. Glissman, Station B, Omaha, Neb., on page 36 of this issue.

Good Angus bulls, among which are some good herd headers, are advertised for sale by Messrs. Isenbarger Bros., of Battle Creek, Iowa, on page 37.

Anyone looking for a bargain in a South Dakota farm should read the advertisement of Mr. J. C. Russell, of Draper, S. D., on page 29. He is offering for sale a farm near Draper, at \$25 per acre, with terms to suit purchaser.

Mr. Herman Baltz, of Fremont, Neb., advertises a splendid three-year-old Poland China herd boar for sale in Proud Tecumseh. He also offers eighteen fall boars for sale and a few choice gilts. Read his advertisement on page 35.

Messrs. H. S. and W. B. Duncan, of Fairfield, Iowa, announce on page 33 that they have for sale a splendid red Short-horn bull, twenty-two months old. This animal is of strictly first-class lines of breeding, an individual of rare merit, and will be sold worth the money.

Messrs. Fox Bros., of Waukesha, Wis., have one of the largest herds of Guernseys in the middle West. They have between eighty and ninety purebred animals and their herd is steadily improving in size and quality. We heartily recommend prospective buyers of Guernseys to communicate with this reliable firm. See page 36.

The Stoecker Seed Company, of Peoria, Ill., are offering Reid's Yellow Dent seed corn which they guarantee to germinate 95 per cent. They give you ten days to test it and if it does not germinate up to guarantee they will take the corn back, pay the freight and refund the money. They sell the corn at \$3 per bushel, sacks included. See advertisement on page 16 and write for particulars, kindly mentioning The Homestead.

Mr. Lyman Peck, of Fort Calhoun, Neb., reports ninety-five spring Poland China pigs so far this season, and they are doing fine. These are sired by Happy Norval, Half Ton and Thunder Cloud. Half Ton is his splendid big-type yearling boar that is all that his name implies. He is a son of Norval Chief and out of Miss Molly by Ovation by Expansion. Mr. Peck is breeding the big-type kind and he is going to be fixed right to attend to the breeders' wants this fall.

Mr. C. F. Shaffer, breeder of Poland China hogs and Short-horn cattle, at Wellman, Iowa, advises us that he now has 150 spring pigs that promise to be the best lot he ever bred. Most of these are the get of his two great herd boars, Wellman Dude and S's Meddler. Mr. Shaffer is booking orders for pigs to be shipped at weaning time. He is reliable and will make reasonable prices. During the past year he has shipped stock into thirty-five states, as well as to Canada and Old Mexico.

Col. Geo. B. Buck, of Sunny Hill, Ill., has a change of advertisement on page 34 of this issue of The Homestead. Colonel Buck is a breeder of Red Polled cattle and Duroc Jersey swine and has herds of each that are second to none. This keeps him up to date and thoroughly posted on the leading families. Colonel Buck has also bred Poland China, Chester White and Hampshire swine and is posted on pedigrees and values of these breeds also. Colonel Buck is an expert judge and has presided as official ribbon dispenser at the great Iowa and Illinois State Fairs, where he gave entire satisfaction, showing he understands his business. This makes Colonel Buck a safe man to handle bids for you in public auctions and as an auctioneer he has made good and rebooked the sales for same parties again. He is the official Red Polled auctioneer of the breed and is authority on pedigrees and history, as well as show records of this great breed. He sells many Duroc and Hampshire sales for the leading breeders of Illinois, Iowa and the East. He has a few open dates and would be pleased to hear from you. His price is \$20 and expenses to all alike. Look up the advertisement and get in communication with him.

Mr. S. E. Eakle, of Prophetstown, Ill., is offering some extra fine fall Duroc Jersey males on page 35 of this issue of The Homestead. A representative called at the Eakle farm recently and found the herd in fine condition. The fall males are extra good and are well-bred fellows. They are by S. E.'s Model by Model Chief, dam by Advancer. The dams of the gilts are by Keep On III., Proud Advance and others of equal breeding. Should our readers need a boar we believe Mr. Eakle's kind will suit. The spring crop of pigs are doing fine and over sixty have arrived to date, with more sows to hear from. The main lot of the spring pigs are by the herd boars, Golden Model VI. by Golden Model II., dam by Model Chief, and Col. Browning by Chief's Col., dam Proud Fancy by Proud Advance. Both these boars are by great sires and their litter mates are doing service in some of the best herds in the land. The dams are by Model Chief, Keep On III., Ohio by Ohio Chief, Perfect Col. and others. Other choice litters are by Defender, dam Proud Bess by Proud Advance; B. & C's Col., dam by Red Wonder; King Wonder, dam by Perfect Col.; Goddard's Col., dam by Keep On III.; Proud Col., dam Model Chief's Advancer-bred sow, and others. The herd also contains sows by Eakle's King, King of Cols., Chief's Col. and the great family of Trick, a family of sows that are unexcelled as brood sows and producers of

good stuff. See advertisement and write Mr. Eakle.

Cruickshank bulls of the very best are being offered for sale by Mr. C. C. Norton, of Corning, Iowa, on page 37.

Fifty Scotch and Scotch-topped Short-horn bulls are advertised for sale by Messrs. Riley Bros., of Albion, Neb., on page 37. They can furnish bulls in car load lots at reasonable prices.

Mr. Fred Stuble, of Black Earth, Wis., informs us that he has sold a large number of Jerseys during the past few months. He has only a very few animals for sale at this time, but will have a new supply on hand in a few months. Breeders may book their orders with him at this time. Look up the advertisement on page 36.

Mr. A. R. Ives, of Delavan, Wis., can sell Belgian, Percheron and German coach stallions or mares at very reasonable prices. He keeps all imported and home-bred horses on his farm in Walworth county and has minimum expenses to meet. When buying from him you are paying for excellence and not for expense. See page 37.

Mr. B. C. Marts, the well-known breeder of Duroc Jersey hogs, at Polk City, Iowa, has arranged to make a change in his location next spring and has purchased a farm close to Hampton, the county seat of Franklin county, to which he will remove his herd. Mr. Marts bought an excellent farm at \$170 per acre and will no doubt re-establish himself with one of the leading herds of red hogs in northern Iowa.

A recent note from Mr. C. O. Keiser, a draft horse importer of Keota, Iowa, says: "We are just completing a very satisfactory sale season. Among the purchasers who made selections from our barns are Mr. J. G. Stafford, of Morning Sun, Iowa, who took the prize-winning stallion, Hibou; Mr. A. J. Lasby, of Northfield, Minn., who bought the stallion, Handicap, that was also a prize winner; Mr. John Cocking, of Wisner, Neb., and Mr. James Winterlink, of Charles City, Iowa. We have still a few extra good stallions that will be spared to buyers who come at once."

One of the first and most important Holstein centers in the middle West was that of Lake Mills, Wis. The breeders in and about that town have won an enviable reputation for the animals purchased and bred by them. Two of the most progressive breeders in the Lake Mills region are Messrs. Frank and Garth Everson. They operate two large farms at the edge of the city of Lake Mills. Their barns are within a quarter of a mile of the depot. Lake Mills is on the Milwaukee and Madison branch of the Chicago & Northwestern railway and can be easily reached from either place.

A representative of The Homestead recently made a trip through the country adjacent to Murdo, S. D. He was agreeably surprised to note the change which has taken place in that section during the past few years. It is now covered with comfortable farm homes and large areas are being put into crop. Quite a proportion of the plowing and disking of the ground is done with traction engines. There were numerous fine fields of alfalfa two and three years old, standing six inches high on the 12th of April. Cattle have been out upon full feed for more than a month past. Settlers and farmers are enthusiastic about the outcome. The central portion of the state of South Dakota is bound to become rich and the present is an opportune time to get in on the ground floor. An advertisement of the Townsend Land & Loan Company will be found on page 29. They have a large list of farms for sale, as well as great acreage of their own. They will be glad to show prospective buyers the country or to furnish complete information by mail. Address the Townsend Land & Loan Co., Murdo, S. D.

Those who plan to buy fire, lightning and windstorm insurance should write at once to the Farmers & Merchants Insurance Co., Lincoln, Neb., for full information concerning their very liberal farm policy. This is the oldest insurance company in the state of Nebraska, having been organized in 1885, and have been enjoying a steadily-increasing business to the present time. Only a short time ago they increased their capital stock from \$100,000 to \$200,000. Some idea of the enormous business that this company are doing may be gained from the fact that their assets increased in the last year the gigantic sum of \$176,671.91. This company are one of the strongest financially in the state; this statement is emphasized by the fact that they are now doing business in fifteen states, while other Nebraska companies are limited to Nebraska for the reason that they cannot comply with the very stringent financial laws of other states. They have paid out over \$1,700,000 to policyholders in recent years and now have over \$58,000,000 insurance in force. Business is more than doubling this year, accounted for by the very liberal farm policy, and the general liberal attitude of the company in adjusting losses and looking after their policyholders. The Farmers & Merchants now have over 700 agents in the state of

WOOL DON'T SACRIFICE YOUR WOOL

Get our prices before you SELL A POUND. Our outlet is enormous. We charge no commission, grade HONESTLY and remit immediately on receipt of wool. Send for our Price-List TODAY. Note our location, close to the great consumers and our responsibility. Capital \$500,000 paid. "SAVE A MIDDLEMAN'S PROFIT. FROM GROWER TO MILL."

WEIL BROS. & CO.,
BOX C. FT. WAYNE, IND.

Nebraska alone. New agents are wanted where not represented. For further information and name of nearest agent, and full particulars, address as above, mentioning The Homestead. See advertisement on page 7.

\$1,500 Percherons at \$1,000.

Mr. S. J. Miller, of Kirksville, Mo., is making the price of \$1,000 on Percheron stallions that usually sell at \$1,500 and up. Mr. Miller's stallions are all young, are the heavy-boned, high-quality sort that please the more discriminating stallion buyers. See page 37 for Mr. Miller's advertisement and go see these stallions now.

A Good Place to Buy Mammoth Jacks.

Mr. J. C. Huckstep, of Eolia, Mo., proprietor of the Fairview Jack Farm, has always a number of high-class jacks on hand that he prices worth the money. Mr. Huckstep is a gentleman who knows the business and handles only such stock as he knows is right. He gives a guarantee that is absolutely good and will be lived up to. See page 37 for Mr. Huckstep's advertisement.

South Dakota Seed Corn.

The L. N. Crill Seed Company advertise on page 16 that they have Dakota-raised seed corn suited for northern sections or for central locations. Note that they advise in the central portions Iowa, Gold Mine, Dakota Leaming, Reid's Yellow Dent, Clark's Mastodon and Longfellow Whitecap. This corn is all Dakota grown and carefully selected. Note the liberal prices quoted. Address the L. N. Crill Seed Company, Elkpoint, S. D.

Cheap South Dakota Land.

The FreeLove-Carter Land & Loan Co., of Kennebec, S. D., advertise on page 29 that they have for sale good and cheap lands located in Lyman county on the Brule reservation. They add that there is no better grain or cattle country anywhere than this. Prices range from \$12 to \$20 an acre. Land adjoining this reservation is selling at from \$25 to \$35. For list of farms for sale, maps or other information, write to the FreeLove-Carter Land & Loan Co., Kennebec, S. D.

Some Remarkable Draft Horses.

The Homestead is just in receipt of advice of a remarkable purchase of a pair of draft horses, made by the prominent importers, Messrs. J. Crouch & Son, of Lafayette, Ind. At a recent auction sale held at St. Joseph, Mo., they paid \$2,025 for a pair of gray Percheron-bred geldings. These horses were purchased with the object of improving the six-horse hitch which was so prominent a feature of the Crouch exhibit at the great state fairs of last season. During the coming fall an endeavor will be made by this firm to show a six-horse team of draft horses that cannot be surpassed by any ring in the world.

A Chilled Cylinder Engine.

All good gasoline engines are growing in popularity, but the Schmidt Chilled Cylinder Engine is taking the public by storm. The Messrs. Schmidt Bros. Co., of Davenport, Iowa, manufacture this remarkable engine. They are selling their three-horsepower engine on trial and shipping it direct from their works. After it has been tested and found to be satisfactory, it is then sold under a five-year guarantee. This is a perfect engine for pumping, hoisting or for running any kind of farm or shop machinery. It is light and wonderfully compact. Those who are contemplating buying three-horsepower gasoline engines should write without delay to Messrs. Schmidt Bros. Co.'s Engine Works, Davenport, Iowa, and receive full information concerning the chilled cylinder engine. Please mention The Homestead when you write and you will get a promptly reply.

Perry O. Brown's Short-horns.

One of the splendid young Short-horn herds in the southern part of the state is owned by Mr. Perry O. Brown, of Lamoni, Iowa, whose advertisement appears this week on page 33. Mr. Brown has purchased some very excellent Scotch cattle and he also has some of the select of the Scotch-topped sorts. At the head of the herd stands Lord Mutineer, a son of Imp. Mutineer, a low-set, deep, blocky red bull of evident feeding quality, and a bull whose get are showing up fine in the herd. He is a richly-bred fellow, tracing to Imp. Laura by Sittytton Style. Mr. Brown has a splendid lot of calves by this bull now in the herd and they are of the low-set kind, showing that they are taking after their sire in this particular. The Scotch females in the herd belong to the Cruickshank Secret, Athene, Daybreak, Eliza, Lancaster and Gardania tribes, and he has some good Scotch-topped sorts, especially the Beauties, of which he has a number on the farm. Just now he is offering some good young bulls for sale. One of the best Scotch bulls is Royal Lancaster, a roan yearling by Lavender's Best and out of a daughter of Imp. Lavender Champion. He is one of those mellow-fleshed roans, a good color and a good handler, and he is a bull that will make a good herd header. He is a Scotch Eliza and no man will go wrong who buys this bull. He was a year old in November and weighs 1,100 pounds. The man who is looking for a young roan Scotch bull will find a bargain in this fellow. Another good yearling Scotch bull is sired by Royal Duke, a bull bred by Mr. H. F. Brown. He is a red in color and belongs to the Athene tribe. Then he also offers several young red Scotch-topped bulls by Lord Mutineer that are good in every way and can be bought right. Short-horn bulls can be bought in southern Iowa for less money than anywhere else, and these bulls are certainly great bargains at the price. It will pay any-

body to make a trip and see these bulls and we are sure they will not come away without buying a bull. If you write Mr. Brown kindly mention The Homestead.

A Few Days Among the Nebraska Cattle Breeders.

A representative of The Homestead recently spent a couple of days at Wisner, Neb., and vicinity inspecting some of the leading herds in that section of the state, and was more than impressed with the progress that the breeders have been making. It will be remembered that a number of years ago Imp. Choice Goods, Ruberta and a few other good ones were purchased by breeders in this vicinity and this gave this section of the state quite a reputation as a cattle center. This applies particularly to the many good Short-horn herds that have been built up in this vicinity in recent years. The herd of Mr. Owen Kane has become one of the best today in the state. At the head stands the well-known show and breeding bull, Gondomar (a son of old Choice Goods), and he was looking well. His calves were very numerous on the farm and there were some very promising ones among the bunch. The breeding cows in the Kane herd attract the eye of the visitor at first glance and few herds in the West can show a better lot. These are not only richly bred, but individually they are an exceptional lot. We saw here Good Lassie, the best daughter of Imp. Choice Goods that we ever looked at. He has a number of other good daughters of the same bull in the herd, as well as others that are sired by the best show and breeding bulls in this country. In fact, he has a grand lot of females and the herd is rapidly coming to the front as one of the best in this western country. Among the many good things we saw there is a splendid young bull calf by the noted bull, Avondale, and he is growing him out with the intention of using him for a herd bull later on. He is a splendid calf, is a roan in color, one of those mellow-fleshed, easy-keeping kind, and he is going to make a good bull some of these days. Avondale, it will be remembered, was the leading sire of most of the sensational winners at the International last fall and is today one of the most noted bulls of the breed. Mr. Kane will be out to the shows again this fall and he will have something good to show the boys. We stopped at the home of Mr. Howell Reese and again saw old Imp. Choice Goods, Ruberta and Ruberta's Goods. The latter bull is in good form and some of the best calves we saw here are sired by him. One particularly choice roan heifer is sired by him and is out of a Sweet Violet cow. She is one of the best things we have ever seen in the Reese herd and if nothing happens her should make a splendid show heifer. He also has a good bull calf, just dropped, that looks good at this writing, but he is too young now to make any predictions for the future. While there we looked at old Choice Goods—a semblance of his former self—and thought of his many victories in the leading show rings in this country and also in Europe. Today he is but a relic of the past, thin and emaciated, his powers of procreation are at an end, and there is but one thing left for him and that is the feed lot. The almost invincible Ruberta is here also, but like Choice Goods, her days of usefulness are over, and one of these days she will in all probability get a car ride to South Omaha. Time has made a great change in her appearance, her two horns have been knocked off, and that queenly beauty that so often brought victory to her in many a hard-fought battle is gone forever. At the home of Messrs. J. R. Mansfield & Son we saw some good young things, particularly the get of Marshall's Best, a bull that they had the misfortune to lose some time ago. The Mansfield herd is one of the oldest in this section of the state and we think the largest. It was late when we got here and did not get to see all the herd, but they have been buyers of many of the good things and have some splendid cattle. The bull referred to above, Marshall's Best, was a son of Whitehall Marshall and was out of that celebrated breeding cow, Imp. Lady in Waiting, and had he lived would have done great things for their herd. They have some splendid young heifers and young bulls by him now on the place and there is going to be a good outcome to them. They are now using a grandson of Whitehall Sultan at the head of the herd and the calves are just beginning to come along. The next day we drove over to the home of Mr. John O'Kane, at Beemer, Neb., and again took a look in at some of the splendid things that he has in his herd. Mr. O'Kane's herd is not the largest by any means, but it is one of the best today in the state. What he has bought has been the very choicest and few herds can show as many high-class breeding matrons as will be seen here. He had the misfortune to lose old Imp. Scottish Pride, but he has some of his best daughters in the herd. He is now using Choice Prince, a son of Prince of Tebo Lawn and out of Good Lassie, a daughter of Imp. Choice Goods, the cow that we think is the best that has ever sired by that noted sire. There is not a better-bred bull in the state than this fellow and he is getting him some splendid calves. While here we again saw Secret Superb, the dam of the noted bull, Superbus, and it now looks as though she is safe to the above bull. If she proves to be it ought to be a winner, as she is one of the great breeding cows in the West. Mr. O'Kane has eleven young calves now on the place and every cow on the place except one is safe in calf. He has a splendid young bull calf out of Imp. Rose Blossom (a half-sister to Choice

Live Stock Pictures for Advertising

The importance of good pictures for use in live stock sale catalogs as well as in all live stock advertising, is well known. Our Art Department is one of the most completely equipped in the United States. Our corps of Artists make first class photographs, sketches, drawings or paintings. Our Engraving Plant furnishes engravings ready for printing. Prices, or any information cheerfully given on application. Address ART DEPARTMENT.

The Pierce Farm Weeklies :: Des Moines, Iowa.

Goods) and if he does not make a winner out of him it will be because he does not know how. Another good bull calf is out of Mt. Vernon Aconite and he also has a good young roan bull calf out of Ardmore Miss Ramsden, she by Imp. Scottish Pride, and the calf is sired by a son of Imp. Merry Hampton. He has a number of good young bulls for sale and will be glad to have the breeders come and inspect his herd. While up in this vicinity we also saw Mr. George Von Seggern, the owner of one of the very best Hereford herds in the state. We very much regret to say that Mr. Von Seggern is offering his herd for sale simply because he cannot secure the kind of hired help necessary to maintain a herd of this kind, and he is not able to care for the cattle himself. In the Stewart & Hutchinson sale he bought many of the best females in that offering, and he has also added the best from many of the other leading herds. Here is a splendid proposition for some man who wants to buy a herd of Hereford cattle. Individually and collectively it is one of the best herds in the state.

Coleman Offers Angus Bulls.

In renewing his contract, Mr. Will L. Coleman, Corning, Iowa, writes as follows: "Messrs. F. W. Miller & Sons, of Chariton, Iowa, were up to see us lately and selected the thirteen-months-old bull, J. Swan 2d. Mr. John C. Blum, George, Iowa, sent a mail order last week for the eighteen-months-old calf, Justino, and he writes us that the bull has arrived at home and he is very much pleased with him. I still have three splendid young bulls to offer that are old enough for service this season. One of these is now two years old and he is an all around good bull, with straight lines and good quarters and should be able to give a good account of himself at the head of a large herd of cows this season. The other two were a year old in March. One of these is Prince Eno 3d. He is an exceptionally strong calf, growthy and large, with excellent quality and very smooth. The dam of this bull is one of the very best cows I have in my herd. The other bull is Senator of High Grove, a very good calf, and he is out of one of the largest and smoothest cows in the herd. These bulls are sired by Eric's Equestor 105883, whose get are proving him to be a stock bull of considerable merit. I am anxious to move these bulls in order to make room for the younger crop that are now coming on and will, therefore, make very attractive prices on them." When corresponding with Mr. Coleman kindly mention The Homestead.

Don't Forget the Berkhelmer-White Short-horn Sale.

At Wayne, Neb., on Saturday, April 30th, Mr. L. E. Berkhelmer and Mr. Geo. H. White will sell an excellent bunch of Scotch and Scotch-topped Short-horns. There will be fifty head in the sale and twenty of these will be young bulls. We think the bull offering is the best that has been made in Nebraska this year and the man who wants a bull to head his herd will find them in this sale. There will be show winners and others that will do to show this fall, and take them as a whole they are the best lot of young bulls that have ever gone under the hammer in northeast Nebraska. These bulls are bred right, many of them being grandsons of Imp. Choice Goods, Whitehall Marshall and Hampton's Best. Mr. Berkhelmer is selling his present herd bull, Tillman, in this sale, also a number of very choice young bulls. Then he is also selling a few good Scotch cows and heifers and quite a number of excellent Scotch-topped sorts. He sold cattle at this same point last year and his cattle were well received by the breeders and farmers in Nebraska, and his consignment this year will be even better than his last year's offering. Meadow Lawn Duchess 10th and Princess of Parkdale 3d are two of the best cows in his herd and these will be sold at this time. Mr. George White is selling some most excellent bulls in this sale. Among these is Victor Marshall, a richly-bred Scotch Missie and a first-prize winner at Huron last fall. Ringleader is a pure white April bull by The Dreamer, and a good one, while Proud Lad is a son of Mr. Geo. Bellows' famous Good Choice, and this bull stood second to Ruberta's Goods at Lincoln. Red Archer by Victor Archer, out of a Gallant Knight dam is one of the choice young Scotch bulls and there is also a splendid young Ury bull in the sale. Then there are some good cows and heifers in this offering and many of these have calves at foot. It will be a good place to buy your bull or a few females. Write Mr. L. E. Berkhelmer, Malvern, Iowa, or Mr. Geo. H. White, Emerson, Iowa, for catalog, and kindly

mention The Homestead. The advertisement appears on page 34.

Remarkable Demand for Cars.

The popularity of the Overland automobile, based upon the practical merits of the car, has become so great that sales of the 800 dealers who now handle the Overland are amounting to more than \$200,000 per day. The Overland has been the means of broadening the field for the use of the automobile. As a touring car it stands in a class by itself. Its utility for practical purposes has gained for it the patronage of the government for postal service purposes, of wholesale concerns who have adopted this means of travel for their traveling salesmen, of city merchants for delivery of goods. The wonderful demand for the Overland referred to has enabled the manufacturers to install labor-saving and automatic machinery by means of which they are able to reduce their costs at least 20 per cent. This means that they are now selling a twenty-five horsepower car at the low price of \$1,000 and other styles have been proportionately reduced in price. Four large factories are already actively engaged in the production of Overlands and others have been planned for. The popularity of the Overland has spread all over the United States. The state of Texas alone has orders in for 3,500 of them for future delivery. The Overland is made by the Willys-Overland Company, of Toledo, Ohio, whose advertisement will be found on page 11 of this paper.

Frank Iams, the Live-wire Horseman.

Mr. Frank Iams, the noted draft horseman, of St. Paul, Neb., has not yet sold out his entire offering, but they will not last long if his present rate of price-cutting continues. Concerning his offering, Mr. Iams says: "Frank Iams, the 'live-wire horseman,' is using the 'big stick'—cutting prices on his 'eighty show and business stallions.' He has opened up a 'new barn' of forty 'show stallions' (not offered or seen by the public before), all 'gold medal winners' in Europe; also forty 'business stallions,' selected for 'show horses' in 1910. They are 'peaches and cream—top notchers,' and the best bunch of Percheron and Belgian stallions in the United States. These stallions will positively be sold in 'next sixty days,' at lowest prices ever offered for real 'show stallions.' Iams has 'lifted the lid' and 'reduced prices \$200 to \$500' on 'show and business stallions.' Iams' forty prize medal winners at 'Paris and Brussels and leading European horse shows,' and all his largest and best stallions are still in 'Iams' big barns'—fully acclimated and all in the 'pink of condition' and must be sold. 'Ikey boys,' get into Iams' 'money-saving game.' Buy a stallion and save \$1,500. Iams 'tickles' buyers with 'rippers' at 'let-live prices.' Owing to bad crops, panic, Iams' cash, his twenty-eight years' successful business, he bought and sells horses cheaper than ever. Mama, Iams is a 'hot advertiser,' but he 'has the goods' and sells horses at his barns only. Buyers get the 'middleman's profits' at Iams'. Iams has eighty Percherons and Belgians, two to six years old, weighing 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent ton stallions. All registered and branded. Iams sells choice of all his 'show and business' stallions at \$1,000 and \$1,500 (bar four), so good they need not be 'peddled' or put on the 'auction block' to be sold. Iams' 'selling clothes' fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance. Buy 'show stallions' of Iams at same price others sell 'culls,' Ikey, what a 'graft' these 'stallion' salesmen are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no salesman's word. 'Iams has the goods you read about.' His establishment is worth going 2,000 miles to see. Iams 'saws wood,' 'butts in,' sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His 1,200 stallions are very much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the language, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is

backed by half a million dollars. Write for million-dollar horse catalog, greatest on earth. References: First National Bank and Omaha National Bank, Omaha, Neb.; St. Paul State Bank and Citizens' National Bank, St. Paul, Neb. See advertisements on pages 38 and 40.

Brookhill Guernseys.

Waukesha county, Wisconsin, is known throughout the West for its Guernseys and no herd in that county has a better reputation than that managed by Mr. David W. Williams, of Genesee Depot. Corn-belt breeders in search of Guernseys should visit Mr. Williams and other members of the Waukesha County Guernsey Breeders' Association. In no place in the West could so many Guernseys be seen at one time. Mr. Williams will welcome correspondence from anyone interested in the breed. Look up advertisement on page 36.

Did You Read It?

An article which recently appeared in one of the issues of The Homestead has awakened no small amount of comment. The article referred to was that written by Mr. John Clark, of Whitewater, Wis., upon the subject of breeding dairy cattle. Mr. Clark has made an exceptional success in the breeding of Guernseys and consequently was in a position to write an article which would interest his fellow breeders. The Richmond Guernsey herd was established in 1887 and has been continuously tested for tuberculosis for the last fifteen years. It has been kept free from disease and pure in breeding.

Modern Dairying Methods.

The requirements, legal and otherwise, governing the production of dairy products lead to more careful handling of milk and to better methods in the various processes. In this connection the Chilly King Cooler, advertised on page 15, is worth an investigation by those who want to get their product on the market in the best possible form and with least trouble. The advertisers claim that this cooler has the greatest cooling surface and the most scientific method of supplying the cooling water. A booklet giving full particulars and descriptions, as well as prices, will be sent free upon receipt of a request to the Charles Skidd Mfg. Co., 1010 Milwaukee Ave., Kenosha, Wis.

Buy a Good One.

Some men are born breeders and Mr. John Erickson, of Waupaca, Wis., would easily come under that classification. At one time he was raising grade Holsteins and supplying a city demand for high-class milk. He knew that to have cows which would be high producers he must either buy or breed them. He chose to do the latter and started right by buying only the very best sires—bulls which he had every reason to believe would transmit the qualities of their ancestors. Every bull used by him has been better than its predecessor. As would be expected he was soon able to build up a herd of milk producers. Eventually he turned his attentions to the building up of a pure-bred herd and he has followed the same course with his pure-bred animals that he did with his grades. The result is, he has been able to build up one of the greatest herds in the middle West, as has been abundantly demonstrated during the past winter. Cows from his herd have ranked among the best in the Wisconsin dairy cow competition. One month under adverse conditions his heifer, Daisy Queen Netherland 2d Piebe, stood at the top of the list and three others of his cows were among the first six to qualify. Breeders of Holsteins wishing to improve their herds by the introduction of high-producing blood should write Mr. Erickson for full information concerning a number of young bulls which he is offering for sale at this time. Look up the advertisement appearing on page 36.

The Report Was Wrong.

It has been reported in many sections of the corn belt that Messrs. McLay Bros., of Janesville, Wis., the leading importers and breeders of Clydesdales, were completely sold out of horses. The report, however, is unfounded. The Wisconsin firm have enjoyed a splendid demand for their mares and stallions and have recently received another importation of some of the choicest Clydesdales bred in Scotland during the last few years and are in a position to offer the trade the very best of American and foreign-bred horses. For several years Messrs. McLay Bros. have been operating with one of the greatest firms in Scotland, namely, the Montgomerys, of Glasgow. The last importation came from the Montgomery barns a few weeks ago and contains a number of very fine specimens of the breed. Messrs. McLay are the only Clydesdale specialists in the United States and their farms are therefore generally known as the American Clydesdale headquarters. They occupy much of the same position in this country that the Montgomerys occupy in Scotland. In fact, there is no better Clydesdale combination in the world than that of the Montgomerys and the McLays. Each firm stands at the very top in their respective country. Both companies have a well-established reputation for square dealing and both concerns can be depended upon to stand back of horses sold by them. Buyers in search of high-class American-bred mares or stallions should visit the McLay studs, and breeders wishing to see the cream of all importations to this country from Scotland will certainly make a mistake if they do not inspect the horses brought over by and for this noted Wisconsin firm. They recently sold a very choice Baron Pride filly to Mr. G. W. Miles, of Brooklyn, Wis., a pair of ton mares and a stallion to Mr. J. J. Ross, of northern Illinois, and

the excellent young stallion, General Davidson, to Mr. Alexander Barron, of South Dakota.

Cane Seed For Sale.

Mr. John J. Blommers, of Pella, Iowa, announces on page 11 that he has for sale cane seed thoroughly re-cleaned and in quantities to suit the purchaser. Samples and prices will be sent on application to the address named.

They are Bonny Boys.

One of the great families of the Guernsey breed is the Bonny Boy, and Mr. Ralph Tratt, of Whitewater, Wis., is making a specialty of this strain. If you are looking for the very best the breed affords do not fail to call upon or write Mr. Tratt. See his advertisement on page 36.

Good Young Scotch Halls For Sale.

On page 37 will be found the advertisement of Mr. S. A. Bixler, of Corn- ing, Iowa, who is offering some excellent young Scotch bulls for sale sired by Diamond Rex, a son of Imp. Cock Robin. These are extra good bulls and can be bought right. Write Mr. Bixler or go and see these bulls and you will surely buy a bull.

A New Fence Without a Kink.

The advertisement of the Apex fence, made by the Janesville Barb Wire Company, will be found on page 27 of this paper. The special value of the Apex lies in the fact that it has a swinging joint that permits a fence to be built up hill or down hill and yet adjust itself to the conformation of the land without any kinks or weakness as is almost universally the case with other makes of fence. The Apex costs no more than any other. It may be had from nearly all dealers, or should the dealer in your town not have it, the company would be glad to send you a serviceable little tape measure and an interesting story entitled, "How Farmer Gus Made Good," if you will write them, giving the name of your fence dealer. Address Janesville Barb Wire Company, 200 South Franklin St., Janesville, Wis.

Some Truman Bargains.

A letter from Trumans' Pioneer Stud Farm under date of April 14th, makes the following announcement: "We are now able since our mare sale is over to give our undivided time to the sale of 100 head of imported Shire, Percheron, Belgian and Hackney stallions which we have on hand at the present time. These were all imported this year, as we have made four importations since the 25th of January, last. They are strictly first-class in every particular. We have decided rather than to carry them over, that we will make some special prices for the remainder of the selling season. Our 1910 catalog will be forwarded upon request to anyone who wishes further information." The advertisement of this firm will be found on page 39. For copy of the catalog write Trumans' Pioneer Stud Farm, Bushnell, Ill.

Just What You Want.

You know and we know that seed corn that will grow and produce crops in proportion to the price asked for the seed is hard to find. Mr. L. F. Stoecker, manager of the Stoecker Seed Company, of Peoria, Ill., whose advertisement appears on page 16 of this issue, is a farmer and lives on his own farm. Here it is that a large part of the 1,000 bushels of Reid's Yellow Dent seed corn they are offering is grown. Every ear is grown under the supervision of Mr. Stoecker and will show a germination test of better than 98 per cent. He guarantees a 95 per cent test. If you are in need of good seed corn, and wish to buy where you will run no risk, you will be satisfied if you patronize this firm. They offer over 1,000 bushels at \$3 per bushel, shipped in new sacks. Send your order today to the Stoecker Seed Company, Peoria, Ill., and please mention The Homestead when you write.

Bargains in Scotch Short-horns.

We wish once more to direct the attention of Short-horn breeders to the little bunch of pure Scotch cattle offered for sale by Mr. H. M. Barr, of Edgewood, Iowa, as per advertisement on page 36. All of this lot throughout is beyond criticism. While they might not all be candidates for show-yard honors, they certainly are, better than that, breeding cattle of true form in just the right condition and with not only a good record for the past, but an excellent promise for the future. One of the best of these Duchesses of Gloster cows is a daughter of Imp. Golden Fame and her dam was by Scotland's Crown, the imported bull that headed the herd of the Iowa State College at Ames. The other cows are daughters of Lord Prince of Maine Valley, Imp. Avalanche and Diamond of Maine Valley. It will be seen that the lines of breeding are very closely allied and this in a measure accounts for the wonderful uniformity that exists throughout the entire lot. At the short course at Manchester, Diamond of Maine Valley was given first place over excellent bulls from very prominent herds. One of the cows headed the female lists and was equally prominent. There is size, quality and true Short-horn character throughout this entire lot. As has been already stated, Mr. Barr is selling these cattle on account of ill health. He wishes to dispose of them before the 1st of May, at which time he has contracted to give up his farm. Extremely low prices will be quoted on these cattle, either in a bunch or singly. The opportunity is one to secure a foundation that could not otherwise be bought for three times the money that will be required to handle these. These statements are made with an absolute knowledge of the cattle and their value. We trust that some readers of The Homestead

will at once go and see them or write immediately to Mr. H. M. Barr, Edgewood, Iowa.

Maple Lane Holsteins are Guaranteed.

The buyers assume no risk, as Mr. T. J. Barmore stands back of every animal sold by him. It is worth while to buy from such a breeder. His address is Monroe, Wis. His advertisement appears on page 36.

State Maps for Twenty Cents.

The Nelson Map Company, of Deerfield, Wis., whose advertisement will be found on page 30, are prepared to furnish maps of the state of Iowa, Illinois and Wisconsin separately. These maps are reliable and give the accurate location of all railroads, rivers, lakes, cities and towns, a list of inhabitants, etc. The maps can only be furnished to a limited number of buyers at the rate mentioned and the offer will be discontinued after one month. The money will be refunded if they do not prove satisfactory. Address orders to the Nelson Map Company, Deerfield, Wis.

South Dakota Land.

An advertisement of the O'Reilly Land Company will be found on page 29. This company offer for sale lands near Draper in Lyman county, S. D., sixty-five miles west of Chamberlain on the Black Hills extension of the C. & St. P. R. R. Draper is located in one of the finest farming sections of western South Dakota. The soil is a deep, black loam that produces excellent crops of small grain and corn right from the start. The native grasses are fine and nutritious, the equal of any grown anywhere. Prices or descriptions of desirable farms in this vicinity may be had by writing to the O'Reilly Land Company, Draper, S. D.

Lands in Lyman County.

An advertisement of the Murdo Mackenzie Land Company on page 29 calls the attention of our readers to good and cheap lands situated near Murdo in Lyman county, S. D. The town is a good one, well located and with good shipping facilities, with the probability that it will be the county seat within the coming year. As stated in the advertisement the soil is suitable for growing practically all the crops grown in Iowa and Illinois to advantage, and in addition is particularly adapted to the production of good crops of alfalfa. Further details, together with the highly attractive prices that will be quoted on these lands may be learned by writing to the Murdo Mackenzie Land Company, Murdo, S. D.

How to Get the Most Money From Your Hay Crop.

There is scarcely any need of suggesting to our readers that baling hay very greatly increases the profit to be derived from marketing the hay, or alfalfa crop and that this profit is made still larger by the use of a durable, simple, economical hay press of large capacity. It is well worth while for any farmer who is marketing his hay crop to write for the illustrated catalog describing the new model all steel hay press made by the Whitman Agricultural Company, 6911 S. Broadway, St. Louis, Mo., whose advertisement appears on page 19 of this issue. This well-known firm have built up a wonderful reputation for their "Steel Beauty" hay press as a money maker for the farmer.

A Brood Mare Sale.

Mr. W. L. De Clow, of Cedar Rapids, Iowa, whose importing barns are recognized as headquarters for good Percherons and Belgians, announces in an advertisement on page 33 that he will make a public sale on May 12th. On that occasion he will put into the ring twenty-five selected imported brood mares which he had imported for use on his own farms, but owing to unforeseen difficulty in securing pasture for the season, he has concluded to sell them at this sale. They are heavy-boned, first-class mares of extra quality and breeding. A number of them have colts at foot which will be sold with them and nearly all the others have been bred. Catalogs giving full information may be had by writing to Mr. W. L. De Clow, Cedar Rapids, Iowa.

Sells' Crimson Wonders.

A visit to Mr. W. M. Sells, of Indianola, Iowa, revealed 104 Duroc Jersey spring pigs on the place and they are looking fine. Mr. Will Sells is one of the best feeders in the state and if he don't have something good to show the boys this fall it won't be his fault. He also has about twenty fall pigs on the place and the entire crop is sired by the noted sweepstakes boar, Crimson Wonder Again, W. L. A.'s Choice Goods, Sells' Advancer, Savannah Belle's Chief I Am, Valley Chief 8th, Muncie Chief and Fancy Sensation. He has two litters by Crimson Wonder Again and out of his most noted brood sow, H. A.'s Queen. One of these is a fall litter of six—the boars of which he is now advertising for sale—and the spring litter numbers seven, three of which are boars and four sows and they certainly look good to us. We don't think the old sow ever had such a good litter, and they came on March 31st, being eight days younger than his sensational prize-winning litter last year. He has about thirty head of fall and spring pigs sired by old Crimson Wonder Again, and therefore will be right in line this summer and fall to fill orders for herd boar propositions. He has two litters by Model Chief 8th, one of which is out of the sow that raised the highest-priced boar pig in his sale last fall. He also has a fall litter of six boars and one sow by Muncie Chief and these and the fall litter by Crimson Wonder Again and out of H. A.'s Queen he is offering for sale. The man who wants a Crimson Wonder Again boar out of this famous old brood sow had better see Mr. Sells at once, as the call for

these is quite strong. He also has a few good fall boars by other leading sires. When writing him kindly mention The Homestead. See page 35.

Rebuilding Cream Separators.

The Chamberlain Machine Works, of Waterloo, Iowa, have built up a very substantial kind of business in repairing cream separators. An ordinary separator bowl runs at such a high rate of speed that there is bound to be a great deal of wear and just as soon as things get out of balance the wear becomes very rapid. It is customary when this reaches a certain stage to put the separator aside and get a new one, while as a matter of fact the Chamberlain Machine Works, of Waterloo, can make the old one just as good as ever at a small cost. Those of our readers who happen to be the owners of a "shaky" separator should communicate with the above firm and please mention this paper when you write. See advertisement on page 19.

Chicago Combination Cattle Sales.

Mr. Sidney B. Smith, of Springfield, Ill., who recently purchased the interests of Mr. W. C. McGavock in the combination sale business, has selected June 28th, 29th and 30th as the dates for the annual spring sales at Chicago, and will sell Short-horns, Aberdeen Angus and Herefords in the order named on the above dates. Mr. Smith already has some entries for these sales, but solicits consignments from breeders. He makes a charge of \$15 per head, which covers all expense except stock yards charges. These sales will be extensively advertised, competent auctioneers employed, and nothing left undone to insure their success. The spring combination sales at Chicago in the past have always been very successful, and now, with the increasing demand for all kinds of beef cattle, an abundance of grass and a broadening outlet for all classes of stock, prices should rule stronger than ever. Entry blanks and full particulars can be secured by addressing Mr. Sidney B. Smith, Springfield, Ill.

Essig's Hampshire Hogs.

Mr. Willie Essig, of Tipton, Ind., has one of the choice collections of the Hampshire breed. At the Ohio, Indiana and Illinois State Fairs, 1909, he was one of the most prominent winners. His show stuff was mostly of his own breeding. General Tipton by Legal Tender heads the herd. In 1908 Legal Tender was grand champion boar at the Iowa and Illinois State Fairs, and General Tipton won several prizes last year. Most of Mr. Essig's young stuff is by this grand young boar. At the present time Mr. Essig has a number of fall boars for sale. These are old enough for service and are a nice bunch of boars. They will please you. He has a number of fall and summer gilts that he will breed for last of August and first of September farrow. These gilts are well bred and are priced worth the money. Here is a good chance to get some well-bred Hampshire sows or boars. Don't wait, but write at once to Mr. Willie Essig, Tipton, Ind. See his advertisement on page 33. Kindly mention The Homestead when writing.

A One-Man Hay Loader.

The direct-gear drive Oxford hay loader, advertised on page 14 of this issue, fulfills all the requirements of any rake and loader. Its first point of interest is the direct-gear drive through which there is a great saving in the loss of time and repairs incident to those of other styles of drive. It is a one-man machine which handles the hay from either swath or windrow and does so as cleanly as the best spring-tooth rake. The Oxford has been in use for twenty years or more and has met with the highest success. Mr. W. J. Torpey, of Lost Nation, Iowa, used one of them and in a letter in reference to it, says: "The Oxford hay loader has given me perfect satisfaction and I believe it to be the best loader made." We might quote a hundred other testimonials much stronger than this. However, lack of space prevents this, so we must refer our readers for additional information to the manufacturers, Messrs. Lasack Bros. & Co., Oxford Junction, Iowa. Write them for special prices in territory in which they are not already represented.

Aberdeen Angus Sale.

The dispersion sale of Aberdeen Angus cattle at Chicago, May 3d, owned by Messrs. Marvin & Durrett, of Paynes Depot, Ky., should attract breeders and admirers of this ever-topping breed of beef cattle from all four corners of America. If there is any question in anyone's mind as to the rise in values for Aberdeen Angus cattle caused by the widespread demand that has set in that doubt should be dismissed by the reports of sales that have been pulled off this spring. The demand for beef cattle has not been so great for many years. It should be easily seen by every purchaser of beef cattle who will take advantage of this opportunity to buy now that they will be in a most favorable position to reap handsome profits at any time in the near future. This will be about the best opportunity that prospective buyers of this breed may see for several months, as it is the dispersion of a well-known herd and many animals will be sold that otherwise you could not have gotten at any price. Only four families are represented in this dispersion of the most fashionable tribes, viz., Blackbird, Trojan, Erica, Jilt and Pride of Aberdeen, of which nine are of the Ballindalloch K. Pride. Prospective buyers will find bulls and cows to suit in this sale. A careful study of the pedigrees of the catalogue will reveal the fact that anyone who buys any of these animals will have made a start in the breeding of Aberdeen Angus that will prove a

good investment if they do their part by the animals. Cattle are going to a much higher level. Ride from the Rockies to the Alleghenies and from Canada to the gulf and the sight of beef cattle are few, and the corn is plentiful and with the coming prospect we are to see it more plentiful and then we will see a great change come to pass and that change will be in favor of the man who has the cattle. See advertisement on page 36.

SOME GOOD NEW BOOKS.

There have recently come from the press three books that will interest a great many readers of The Homestead. The first one is entitled "The Study of Corn" by Prof. V. M. Shoemsmith, of the Kansas Experiment Station. This book describes all the popular varieties of corn, takes up the matter of judging and selecting seed, states in a clear, concise way the relative value of the ear characteristics of corn, gives instruction on the field selection of corn and takes up in detail the testing and germination process. It is an illustrated book containing 100 pages and the price is 50c. The two other works are by the same author, Charles A. Publow, of the Chicago University. One is entitled "Questions and Answers on Butter Making" and the other, "Questions and Answers on Milk and Milk Testing." These are books of practically 100 pages and the publisher's price on each is 50c. The three books are for sale by The Homestead at the price mentioned.

MERITORIOUS DODDIE FAMILIES.

To the Editor of The Homestead:

We should like to raise our voices in behalf of the Aberdeen-Angus breed as Mr. Martin and Mr. Wilkinson have been doing. We think perhaps our experience not different to many others who have had an ambition to own and exhibit the best the breed affords and for the benefit of the many allow us a little space for the discussion of this subject that we fear is working damage to the breed. To begin we wish to emphasize the fact that some of the breeders are doing much harm by trying to narrow down to three so-called leading families, viz., Trojan Erica, Pride, and Blackbirds.

The writer stood by Mr. Martin during the progress of the International Sale at Chicago in December, 1908, and as some cracking good animals of the so-called plain families were scarcely bringing beef prices with the expense of the sale added I made the remark to him, "What in the world are we going to do if only Blackbirds, Prides or Ericas can be sold for any thing like remunerative prices?" The reply was, "I don't see except sell for beef everything except these few families." My mental resolve at that time was if the old reliables that have made the breed what they are must be discarded the breed would surely suffer from it as far as improvement was concerned.

Go with me through the winners of the first three places of the western show circuit of 1908, of which year we made the entire circuit and note what the majority were. This season brought out probably the strongest lot the breed has had out for years and we should be able to draw some conclusions from it.

Our show herd was headed by Valas Rosegay, the bull that had won junior championship at the St. Louis Exposition and also the International that year, later in 1906 was grand champion at the American Royal and International Shows. He was past five years old in 1908 and won second at most of the shows. He belongs to the Vine, sired by a Westertown Rose and out of Vala. The bull giving us the most trouble was Glenfoill Thickset, a Miss Copeland, and sired by a Queen Mother bull, his dam by a Heatherbloom.

For cows we had a Miss Watson, Battles had a Queen Mother, Binnie an Abbess. These cows see-sawed from first to third under the various judges, all having at times been first. The two-year-old heifers brought out Battles with a Miss Copeland, Binnie a Queen Mother, likewise ourselves a Queen Mother. These were variously rated during the circuit but these occupied the first three generally. In the senior yearling we had a Drumin Lucy, Battles a Queen Mother and Binnie as I remember a Trojan Erica.

In the junior yearlings we had a Barbara but she did not get close to the top and I do not recall the winners. In the senior heifers we had a Baads Isla, being sired by an Antelope bull, McHenry showed a Barbara, I believe. Mr. Hess usually got in the first three places with a Blackbird. In the junior heifer class ours was a Pride calf which won first at every show. For a senior yearling bull we had a Trojan Erica which was generally rated first or second, Battles had a Queen Mother and Hess an Abbess. In junior yearlings we did not show. For senior bull calves our Queen Mother was first the entire circuit, McHenry has a Pride, Miller had a K. Pride. In junior calves Battles had a Blackbird, I think, but do not remember the others. Ours was an Isabell of Morlich critter that only got to third at Springfield and fifth at the Royal.

We could go through other show herds with which we are familiar and feel convinced that we could pick out a majority that were not of these three families.

I recall during the Chicago sale previously mentioned the old veteran, W. J. Miller, sold a young Queen Mother cow safely in calf that had been a prize winner from a calf for the low price of \$120 while members of the Ericas sold in this same sale not nearly as good individuals for around the \$400 mark.

What had brought the Aberdeen-Angus cattle to their premier position as a beef animal? I'll almost gamble mighty few of those crack show steers or car lots were sired by a Blackbird or a Trojan Erica bull. In the past the breeding herds with few exceptions that have made the world sit up and take notice, were of the good, old, reliable families that some are now trying to make us believe should be discarded. It occurs to the writer merit alone should make an animal fashionably bred.

A number of the breeders have repeatedly told me the only way to work improvement to the breed was to forget about a lot of this family craze and just breed good cattle. A Drumin Lucy should bring as many dollars per hundred at Chicago as the most aristocratic Trojan Erica that ever lived. Rosenfield & Siverly, Story county, Ia.

TWO EXTREMES IN POLANDS.

To the Editor of The Homestead:

The demand for the short, chuffy, "typical" Poland China has vanished. They have run their rather brief career with a popularity probably not known to any type of hog of any other breed. Early maturity, breed, type, and heavy-fleshing qualities brought them to a point in respect to size and prolificacy where they were unprofitable and hence unpopular with feeders. As the ultimate end of the hog is the pork barrel, we necessarily must cater to the demands of the commercial feeder, in a measure at least. The greatest trouble in the situation is the turn the fad has taken. "Thousand-pound boars" and "900-pound sows" are as common now as \$5,000 boars and champion sows were in the "boom" days of the breed.

The fact that such exaggerations are being made will eventually lead such hogs to become unpopular like their smaller brothers. Then where will we be? What type must we then adopt? Nothing but just what some of our most successful breeders have been producing all this time—a hog with quality, which the big type does not possess, plenty of size with good-fleshing qualities and with it all prolificacy. This type of hog has always been in demand by sane, sensible hogmen. While fadists have been first booming the short, dumpling hog and later the long, rough mastodons, conservative breeders have been producing a strong, medium hog that has been in demand through it all.

The average farmer, and it is he who determines the demand, has no use for a 900 to 1,000-pound hog. He would not feed them out to approach that weight, anyway. The majority of the hog raisers have never had a demand for that kind. They got a little too far in their development for quality and early maturity, while the hogs became a little too small and

did not produce enough pigs to the litter.

However, they did not kick on the quality, finish and fleshing. In order to get just what they wanted, all they would have had to do was to back up, select a type that would raise from five to eight pigs to the litter and weigh from 200 to 250 pounds at from six to eight months old. That's about all the general run of the big type do. The big type sow that farrows from ten to thirteen pigs won't save on an average over six or eight. They actually won't outweigh the strong, medium type at seven or eight months old.

You invariably find that the men who were booming the show type a few years ago are now advocates of the large type. They run to extremes and unthinking farmers are misled by their arguments and advertisements.

Even those who are the greatest advocates of the big type admit that they have the old-fashioned Poland China. They have indeed the real old-fashioned Poland with all his faults, but with none of the merits of the show type. In going into the big type we have gone back to the beginning, disregarding the improvement which has been made in Poland Chinas during the past twenty years. Would it not have been better to simply have gone backwards to the place where we could secure the size and prolificacy, without sacrificing the early maturity, quality and heavy fleshing of the show hog?

The market demands a hog weighing from 200 to 300 pounds, the weight varying with the supply of hogs. Where can our half-ton boars be of use in producing this early-maturing, smoothly-finished stuff? The champion boar at Chicago this year was a Poland China yearling weighing 575 pounds, finished like a pig. The possibilities are that he could have been finished at any age from six months to his present development. Those are the Poland Chinas we are in need of. These are the kind the average farmer wishes to feed and grow, not the small, undersized type of the long, rangy, rough 1,000-pound hog. Roy F. O'Donnell, Story county, Iowa.

ASH-TREE BORERS.

A valued subscriber writes that he has a grove of young ash trees, planted five years ago upon black, moist land. The surface is now in grass, and while a portion of the trees are thrifty, and doing well, others are held back by the borers. He wishes to know how to kill the worms, and the best treatment in general for the grove.

The ash-tree borer is a nuisance, and a serious drawback to the cultivation of that variety of timber. Its distribution seems to be very irregular, for while some farmers have endless trouble with it, others escape entirely. We advise cultivation of the grove, and letting pigs and chickens have the range. While this will not eradicate the evil, it will help in that direction.

When the worms have once obtained a lodging in the body of the tree, it means that the tree is doomed,

IMPORTED DRAFT MARE SALE

I WILL OFFER FOR SALE AT
Cedar Rapids, Iowa, Thursday, May 12th,

MY TWENTY-FIVE SELECTED IMPORTED BROOD MARES. I have selected these brood mares from the 120 head that I imported last season, intending to keep them for my own use in breeding. I am experiencing difficulty, however, in securing pasture and proper convenience for the successful handling of these mares, and have concluded to offer them all at public sale. I will not import any mares this season, owing to the high prices prevailing in Europe. This is the only sale I will have this year and it affords a splendid opportunity for you to secure large, heavy-boned, first-class mares of extra quality and breeding. Some of these mares already have colts at side, others will foal during the next few months. Colts will be sold with the mares. Remember, I still have thirty-five big-boned, ton stallions for private sale, and a lot of big, heavy-boned fine jacks, that I am very anxious to sell. Please write for catalog and sale bill.

W. L. DeCLOW, CEDAR RAPIDS, IA.

TOO LATE TO CLASSIFY.



HAMPSHIRE SWINE

For sale. A few fine fall boars. Also a number of gilts bred to farrow the last of August and first of September. All my stock of same breeding as my 1909 state fair winners. Write for prices and description, mentioning The Homestead. WILLIE ESSIG, TIPTON, INDIANA.

Clydesdale Headquarters

McLay Bros., Janesville, Wis. NEW IMPORTATION—15 STALLIONS and MARES ARRIVED MARCH 12th.

Our entries in the Stud Book exceed all others. Have aggregated more prizes at nine International than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, sired by Maplehurst Herd 3d and my double-bred Trojan Erica bull, Erica's Equester also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

SCOTCH and SCOTCH-TOPPED BULLS

I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athene. Others that are strictly choice. Also several Scotch-topped bulls by Lord Mutneer. Prices low if taken soon. PERRY O. BROWN, LAMONT, IOWA.

FOR SALE QUICK

A "REAL" herd header, red, "Cruickshank Secret," 22 months old, bred by Chas. C. Norton, son of his noted "Gloster's Favorite." You will buy if you see him. Write us now for particulars. H. S. & W. B. Duncan, Clearfield, Taylor Co., Ia.

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100 HEAD. A few grandsons of Hengerveld De Kol to offer from A. R. O. dams. High grades in carload lots that show quality and breeding. Barn a few rods from C. & N. W. Ry. WM. EVERSON & SONS.

unless efforts are made to kill the enemy. Pare away the bark with a sharp knife, until the track of the worm is found, then insert a wire and follow up the windings, until you strike the worm. This will put him out of business. This seems more laborious in the telling, than it is in practice. The worms are usually not as numerous as they seem, judging from results, for one will do much mischief. It is almost impossible to reach this enemy with poison, for he works continually under cover.

Protection of the trunk to prevent the deposition of eggs is done by veneer wrappings, or newspapers, or wire screen.

We have heard various washes advised, but have not known of anything which in practical use was strong enough to protect the tree, and at the same time not injure it. So-called tree paints must be used with caution. We know of a case where a two-year-old orchard was entirely killed the past winter by such an application.

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THE CHICAGO MARKETS.

[SPECIALLY PREPARED FOR THE HOMESTEAD BY CLAY, ROBINSON & CO.]

Chicago Union Stock Yards, April 18.—Cattle feeders and shippers made the fatal mistake of landing 25,994 cattle at Chicago at the start of last week and sending relatively liberal shipments to the western river markets on both Monday and Tuesday of last week. The Monday supply at Chicago was only 2,318 under the total marketed here the previous week. It was simply a case of filling the market hoppers to overflowing and enabling the buying interests to have things pretty much in their own way. Sharp price declines were registered at all the points and at Chicago on Wednesday sales were mostly 20 to 30 cents lower than the close of the previous week, with instances of the better kinds selling at still greater decline. Demand is considerably restricted at this time from normal volume and the price break was only logical. The Koshier strike against the high price of beef in New York is a source of worry to both the local packers and eastern shippers, as it requires a considerable amount of beef to fill this demand in ordinary times. In addition to the above adverse conditions, the hog market has been successfully attacked by buyers, the Wednesday range being generally \$1.00 under the recent high time. The general public is not taking kindly to the prevailing high cost of dressed meats and it takes only a few thousand cattle above actual trade requirements to bring about a lower price range. If feeders would only make a more equitable distribution of their offerings throughout the week there is no doubt that the selling interests could have better control of the situation than they now have.

CONDITIONS SOMEWHAT OUT OF JOINT.

In our issue of April 1st we advised prompt marketing of hogs as fast as ready. Making a constant study of conditions affecting the hog trade, and at all times closely in touch with the general situation by reason of individual investigation on the part of our own hogmen at ten great markets, this advice was promulgated because increased marketing was indicated by our study of conditions. One need but refer to hog market history for the past two weeks for evidence of how valuable this advice was to those who heeded. Throughout the hog-producing territory the season is thirty days ahead of an average. March weather was unprecedented and perhaps never before in the history of production in the middle West did hogs make as great gains in that month. It was but reasonable to expect, therefore, that the spring and early summer movement of hogs would be advanced proportionately as compared with normal years. This condition is evidenced by an increasing movement of swine marketward and by an increase in the average weight of hogs marketed the past ten days. To such an extent has the proportion of heavy hogs increased that at the close of the week ending April 9th light hogs commanded the premium, market experience in this regard being as much ahead of the average year as is the season, further evidence that the situation is somewhat out of joint. Starting two to four weeks ahead of the average season it is probable the early summer movement of swine will be checked as much earlier proportionately. Some time since we predicted the marketing of hogs March 15th to June 15th would show a shortage of around 40 per cent as compared with last year. We can see no reason to change our estimates in this particular, yet we advise the early marketing of hogs that are ready. There is much encouragement to hope for a favorable summer and early fall hog market. Considering the outlook and the present market price of corn, we feel certain those who have pigs and shoats will entertain vain regret

50 Head of High-Class 50SHORT-HORNS.... 50

SCOTCH AND SCOTCH-TOPPED. To Be Sold At Wayne, Neb., Saturday, April 30, 1910

20 BULLS--30 Cows and Heifers

INCLUDED in the offering will be some State Fair winners, some of which are grandsons of Imp. Choice Goods, Whitehall Marshall, Hampton's Best and other noted sires. The best lot of bulls that have been sold in a Nebraska sale in recent years will be offered at this time. There are some strictly high-class herd propositions in this sale. Also some good cows and heifers. Every animal has passed the tuberculin test. Write either one of us for catalog.

L. E. BERKHEIMER, MALVERN, IOWA
GEORGE H. WHITE, EMERSON, IOWA

Col. Geo. P. Bellows, Auctioneer.

if they fail to fatten them for the summer and early fall market.

LIGHT RUNS, SHARP PRICE ADVANCE.

All that the sheep and lamb market needed was a few days' light supplies and an equitable distribution of them. Result was a brisk trade and an advance in price of about 35 cents for sheep and around 75 cents for lambs from low spot of three weeks ago. The market for shorn stock stands only 25 to 50 cents under the recent record-breaking price basis, while about three weeks ago the trade was in a demoralized condition, with rates 75 cents to \$1.25 under the high time. We have given the reasons for the improved market since the recent slump. The causes for the deplorable state into which the trade was thrown were in the main crowding supplies in at a time when only very light ones were needed and the filling to overflowing of the big feed lots around Chicago, although the bad condition of the eastern dressed meat trade had a depressing effect on the market. The trend of the trade in the next few weeks is practically up to the course which the feeders will pursue. Light receipts augur well for the price range, but more liberal supplies will no doubt enable the slaughterers to cut some deep gashes in the market. Our advice is: Shear the stock in fleece, keep a close watch on the market, send in only the well-fatted lots and as far as possible avoid congesting the receipts.

RECOVERY IN CATTLE MARKET.

The week closed with beef steer prices 10 to 15 cents lower for the good to prime lots and steady for other kinds as compared with last week's finish. Heavy beefs were in disfavor, while the light and handy weights were ready sale at prevailing prices. Top beefs made \$8.65 and bulk of sales at \$6.60 to \$8.10. Cows and heifers sold 15 to 25 cents higher for the week and most of the beef grades brought \$4.85 to \$6.25, with canners and cutters largely at \$3.15 to \$4.25. Bulls went in main at \$4.75 to \$5.75. Top calves at close of the week at \$8.10, with sales largely at \$7.25 to \$8.00. Stockers and feeders advanced 10 to 15 cents, with most trading at \$5.50 to \$6.15 for feeders and \$4.85 to \$5.35 for stockers.

FURTHER SLUMP IN HOG MARKET.

Prices for hogs continued on their

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downward course last week. On Thursday the great bulk of the trading was at \$10 and down to \$9.90, showing a loss of generally \$1.50 from the recent record-breaking price range. There was some recovery from the low point later on with the top at the close of the week \$10.15 and sales largely at \$9.95 to \$10.05, being 30 to 45 cents down from the previous week's finish.

HIGH PRICES FOR SHEEP.

It was an up-and-down trade in sheep and lambs last week, but by the close sellers had made buyers do sums in addition to the extent of 10 to 15 cents over the close of the previous week. Top woolled lambs made \$10.20 and most selling of these kinds was at \$9.80 to \$10.10. The summit on shorn lambs was \$9.65, this price being obtained by Clay, Robinson & Co. for several lots and most sales were at \$9.25 to \$9.60. A fancy class of handy-weight shorn yearlings was quotable up to \$8.75. Shorn wethers reached \$8.25, Clay, Robinson & Co. obtaining this price for several loads and most trading in shorn sheep was at \$7.50 to \$8.10 for ewes and wethers.

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Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

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High Notcher

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I HAVE good ones by S. E.'s Model 80743 by Model Chief, dam by Advancer. The dams of these boars are by Keep On III., Proud Advance and others equally as good. These males have quality and some are fit to go into the best herds in the land. Will price them cheap. My spring pigs are extra good, and of the best breeding. Write me or come and see. Please mention The Homestead.

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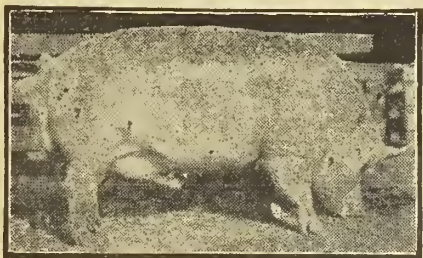
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A FINE lot of cows and heifers, sired by or bred to Brigadier 10th 217618 (a grandson of Lamplighter). All are of good lines of breeding, and of excellent individual merit. I have too many, and will sell some of them at bargain prices to reduce the number. You will buy if you see them.

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2 HEREFORD BULLS 2

One a herd header, by Tommy B., a grandson of Wild Tom, and out of Imp. English Lady, a ton cow and one of the best of the breed. The other a Wild Tom-bred bull, a good, useful steer getter. These bulls will be priced so you will buy.

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FOURTEEN to 18 months old; all red; one out of Imp. Lady Belle 7th; one out of a daughter of Imp. Lady Belle 7th; the other a Cruickshank Rosemary. All got by Imp. Kinellar Stamp 159277. Can also spare one of my herd bulls, Fairy Knight 262490; a red four-year-old, by the great March Knight. T. A. DAVENPORT, BELMOND, IOWA.

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And several choice driving horses. One of the stallions is an imported horse and the other is American bred. They are good individuals with plenty of bone, size and style. Are sound and good breeders. Will be priced to sell at figures that will suit anyone wanting a stallion. Now is the opportunity to buy right. Address. A. H. Brett, 426 W. 4th St., Mason City, Ia. A. H. Brett and G. O. Gould, 723 N. Mich St. Phone No. 1213. Mason City, Iowa.

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Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

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In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.



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ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST
 Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

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at Paris and Brussels and leading European Horse Shows just opened up. "All" his "Show Stallions" and largest stallions are yet in his barns and must be sold by June 1st. "Ikey Boys," get into Iams' "Money-saving game." Buy a stallion and save \$300. Iams "tickles" Buyers with "Rippers" at "Let-Live Prices." Owing to bad crops, panic, Iams' cash, his 28 years' successful business, he bought and sells horses cheaper than ever. "Mamma," Iams is a "Hot Advertiser," but "he has the goods" and sells horses at his barns only. Buyers get the "Middleman's profits" at Iams'. Iams has

60---PERCHERONS AND BELGIANS---60

two to six years old, weighing 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent ton stallions, all registered and branded. He sells Choice of his prize winners cheaper than others sell culls, "at \$1,000 to \$1,500 (Bar 4)" so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance. \$1,000 saved at Iams'. Ikey, "What a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000. Mr. Buyer, see Iams' stallions yourself. Take no salesman's word. Iams has the goods you read about. His establishment is worth going 2,000 miles to see. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. "Big Bill," buy a stallion of Iams. His \$1,200 stallions are very much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from the breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better

Imported Stallion at \$1,000 to \$1,500

than are sold to stock companies for \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams guarantee is backed by half a million dollars. Write for Million-Dollar Horse Catalog, Greatest on Earth. References: First National Bank, Omaha National Bank, Omaha, Neb.; First State Bank, St. Paul State Bank and Citizens' National Bank, St. Paul, Neb.

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Percherons, Belgians and Shires

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Breeders and Importers of

PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

CLYDESDALE STALLIONS

FOR SALE from 1 to 3 years old. Also some Clydesdale mares. Prices reasonable, easy terms. **J. C. SAVAGE - FORT DODGE, IOWA.**

Percheron Stallion for Sale

BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dam, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales. **L. A. MATERN, - WESLEY, IOWA.**

HORSES.

1878 TRUMANS' CHAMPION STUD 1910

100 SHIRE, PERCHERON, BELGIAN AND HACKNEY STALLIONS

SPECIAL PRICES FOR 30 DAYS. THIRD IMPORTATION FOR 1910 ARRIVED MARCH 14th.

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in THE WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.

STALLIONS AND MARES

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.

Special Announcement of Our Second Annual 30-Day Sale

ON STALLIONS and MARES

AMERICAN-BRED Percheron mares from \$350 to \$600; imported Percheron mares from \$600 to \$700. Ages from 2 to 4 years, weighing from 1,700 to 2,000 pounds. All registered in P. S. of America. We have some extra good imported Shire mares with size, bone and quality—International winners—at very low prices. The above mares are guaranteed sound and satisfactory brood mares, most of them being heavy in foal. A choice selection of American-bred Percheron stallions, 2 and 3 years old, from \$500 to \$800. Our imported Percheron, Belgian and Shire stallions are the large, ton, drafty kind, with plenty of bone and quality. All of them will be priced so as to move them quickly. All stallions guaranteed sound and 60 per cent breeders. We are making these extremely low prices for the next thirty days to make room for our new importation of 60 head of Percheron stallions and mares that will land here April 20th. Therefore, if you want a real bargain in a first-class animal of either sex come at once and get your choice. Our motto:—honest treatment, square dealings, best terms and best guarantee. Write our Home Bank for reference. Homewood is on the main line of Big Four and I. C. railroads, 23 miles south of Chicago; Suburban trains hourly; Bell phone, Homewood 204.

S. METZ & SONS, Homewood, Ill., or Abilene, Kan.

NOW IS YOUR OPPORTUNITY

TO OBTAIN A FIRST-CLASS, IMPORTED

PERCHERON, ENGLISH SHIRE OR BELGIAN STALLION



At prices never before duplicated by any importing establishment in the United States, breeding and quality considered. 60 head on hand to select from, including a new importation just received March 10th. We give you a straight 60% breeding warranty without any ifs or ands attached to same. Visit our establishment, inspect our stallions, and we feel assured you will purchase one of our horses. If you have not received our new catalog, drop us a line for one. It is free for the asking. Our office is located in the Lincoln Hotel Building.

Watson, Woods Bros. & Kelly Co., Lincoln, Neb.

Percheron, Belgian and Shire STALLIONS AND MARES

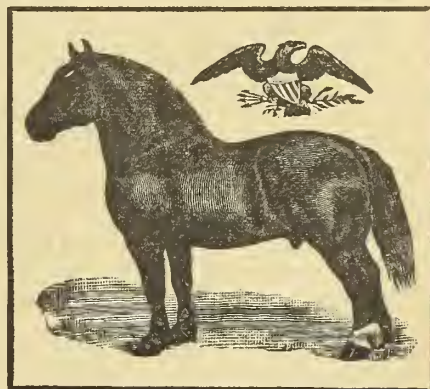
WE are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old and third Belgian mare three years old.

PETER HOPLEY & SON - LEWIS, IOWA.

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

Percherons, Belgians, Shires, German and French Coachers, Hackneys.



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

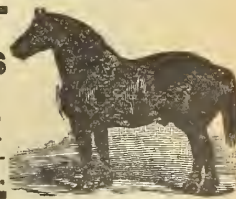
We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

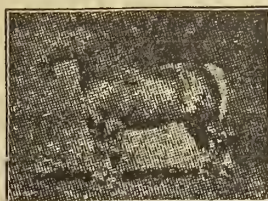
A. B. HOLBERT, Greeley, Ia.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



PERCHERONS AND PERCHERONS ONLY ERNEST L. HUMBERT & SON, CORNING, IOWA,



ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 15th. **Ernest L. Humbert & Son, Corning, Ia.**

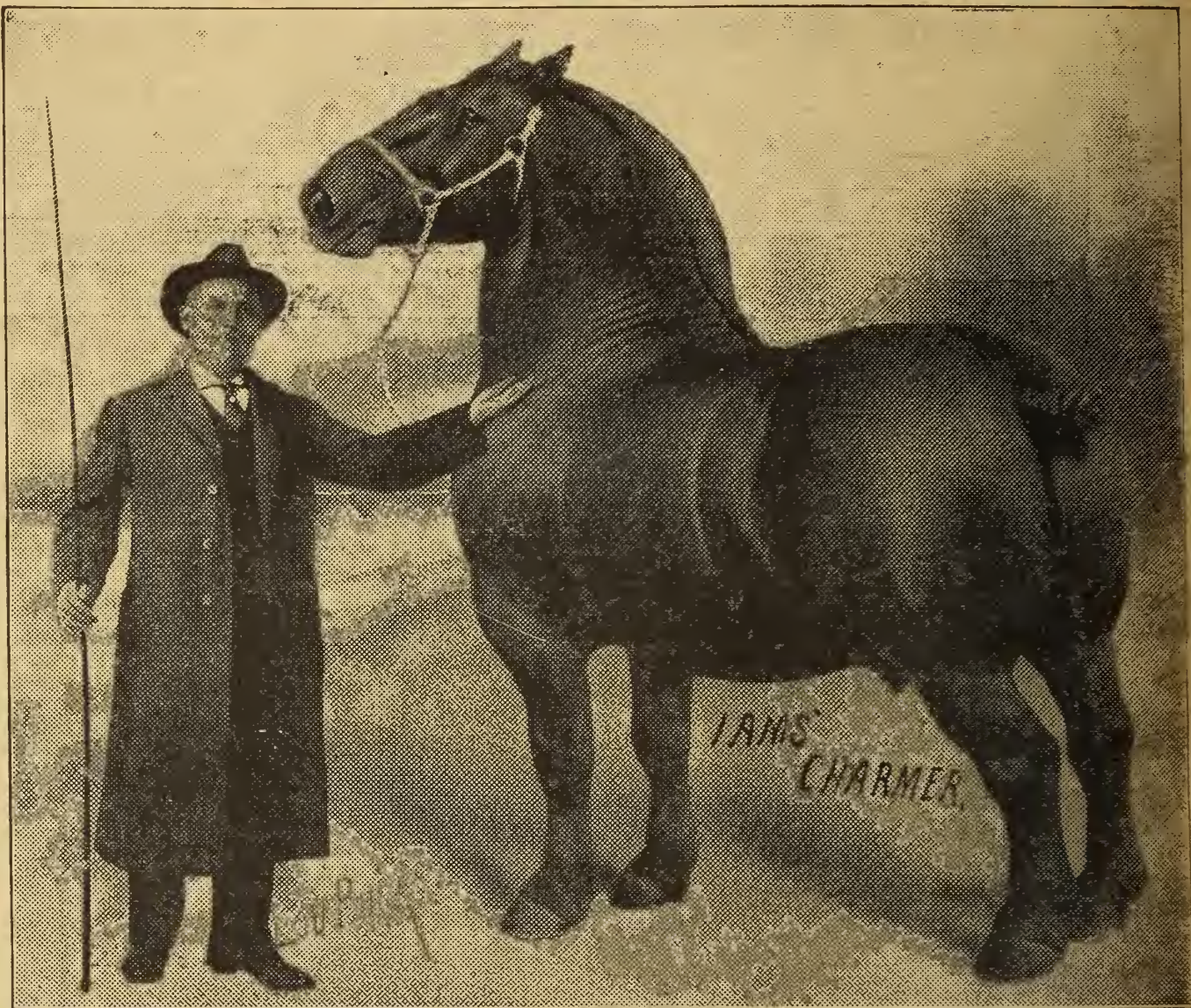
When Writing to Advertisers Please Mention This Paper

FRANK IAM'S' REDUCED PRICES

On his Imported "1909 Show Stallions" and horses bought for 1910 "Show Stallions" and "Business Stallions" and his "new suit" of "selling clothes" will sure fit all buyers. Prices on all Iams' Imported Show and Business Stallions reduced \$200 to \$500 each. Iams sells show horses at the same prices others sell culls and they "hypnotize" "car loads" of "Ikey stallion buyers" and make them "sit up and take notice" and buy Imported horses of Iams. His big "black boys" are "ripe peaches" and all must be sold. Get on to "Iams' money-saving game." Buy stallions today. Get stallions ready for "spring business." Ikey boy, be the "early bird;" they get the business and choice of Iams' "black boys" and "Top-notchers." "Leave your happy home," visit the "peaches and cream" stallion man, and save \$1,000. Every day is a "bargain day," a "horse-show day," and a day of "profit and pleasure" AT Frank Iams' "STALLION EMPORIUM," the largest in the United States, at St. Paul, Neb. You will positively see here more imported stallions, "top-notchers," "medal winners," "ribbon grabbers" and everyday business horses than at any "horse plant" in the United States, and double all others in Nebraska. Iams backs up his "ads" and catalog with a "500 bonus" (no others do this). He gives five of the best banks in Nebraska for reference. Iams'

60 KINGS AND QUEENS OF PERCHERONS AND BELGIANS

are all "top-notchers." No International "tail-ends," no "auction stuff," no "pick-ups" or "peddlers' horses," but the best bunch of big-boned, big drafters of quality and finish in the United States, and in the "pink of condition." Iams is a "big fly in the ointment" in the "horse business." He "sets the pace" for all competitors. "Ikey Boy," buy an imported stallion of Iams, the horseman "who does things." Get into Iams' "Band Wagon;" "don't be side-tracked" by "hammer knockers," "Ikey Boy," "waltz me around once again" and land me at IAMS' "four importing barns" and box office, filled to the roof with big "black boys" at bargain prices. Iams is the only horseman who really has "the goods" as advertised. Mr. Stallion Buyer, "come on down town." Iams'



by selling stallions direct to the people, saving all the middleman's profits. Iams is an expert horseman. He knows the "top-notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin-and-a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 and \$4,000. "Son Ikey!" Form your own "stallion company." Visit Iams' town of barns filled to the roof with big "black boys," the "best ever"—"Iams' kind." His seventy stallions, two to six years old, weight 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent ton horses, are a horse show better than the International.

New Barn of 40 Gold Medal Winning Percherons and Belgians is Opened up for Sale (not seen before). All of Iams' 1909 "Gold Medal Prize Winners" and 1st Prize Stallions at Paris and Brussels and leading European "Horse Shows" and forty "TOP-NOTCHERS"—bought for 1910 Horse Shows in the United States—they are all in his barns and

FOR SALE AT REDUCED PRICES---\$200 TO \$500 EACH

All in the "pink of condition" and fully acclimated. Iams has positively all his largest and best horses in his barns yet. Son Ikey, All the World Knows IAMS. He has a "money-saving" feeling for horse buyers. He sold sixty Imported stallions and mares to "Iowa boys" in 1909 and 150 "top-notchers" to the boys with brains in other states. Iams sells \$4,000 imported stallions at \$1,000 and \$1,400, (some higher). Iams sells the "wide-as-a-wagon" kind that don't need to be "peddled" or put on the "auction block" to "catch suckers." Iams is a horseman in a class by himself; he is selling more horses yearly. Ikey Boy, don't be a lobster, "be the wise guy after all." Try Iams, the "peaches and cream" stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a "warm spot" in his heart for all stallion buyers.

HE SAVED \$300,000 TO STALLION BUYERS IN 1909

by selling stallions direct to the people, saving all the middleman's profits. Iams is an expert horseman. He knows the "top-notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin-and-a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 and \$4,000. "Son Ikey!" Form your own "stallion company." Visit Iams' town of barns filled to the roof with big "black boys," the "best ever"—"Iams' kind." His seventy stallions, two to six years old, weight 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent ton horses, are a horse show better than the International.

IAMS' 1910 HORSE CATALOG IS AN "EYE OPENER"

a "bunch of gold." The "book of books" to stallion buyers. It is full of truths, facts, "business propositions," and 115 illustrations of the best and largest imported stallions and mares in the United States; "true to life," the "wide-as-a-wagon," the real "peaches and cream" stallions. It shows the "tricks" of "stallion peddlers" and "auction-block" salesmen. It is the finest and most elaborate, original, up-to-date book in the world. Iams' twenty-eight years of successful business, importing and selling stallions, makes him a safe man to do business with. He sells stallions on honor. A boy or lady can buy as cheap as a man and get a better horse of Iams, the "square-deal" horseman. If you visit him and don't find every statement in his advertisement or catalog as represented, you can get the \$500 that he hangs up. Iams guarantees to

SELL YOU THE CHOICE OF HIS GOLD MEDAL AND PRIZE STALLIONS AND A BETTER STALLION AT \$1,000 TO \$1,500

(Bar 4) than are being sold to farmers' stock companies at \$2,500 and \$4,000; with 60 per cent breeding guarantee, with freight and fare paid by IAMS. He can furnish buyers \$1,500 insurance. You say, "Why can Iams sell better stallions at half the price of others?" IAMS buys and sells every stallion himself. He buys stallions by special train loads, 200 at a time. He speaks the languages, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick" salesman \$100 to \$1,000 to sell you a fourth-rate stallion. He has no two to ten men as partners to share profits with; he pays spot cash for his stallions, owns his farms, houses, barns, stocks and stallions. Iams makes special prices at his barns for sixty days.

IAMS HAS ALL HIS LARGEST AND BEST HORSES ON HAND YET

(not seen by the public before), now on sale. He sells stallions by "Hot Advertising" and having "the goods" to make every statement good. Iams sells stallions so good that they do not need a "slick" peddler or the "auction block" to sell them. Special prices made at Iams' barns only. Iams will save you \$1,000 in commissions and middlemen's profits. "Papa, dear," buy me an imported stallion of Iams. He will make me \$1,000 in six months and be good for twenty years. Iams has the kind that lay these "golden eggs." Don't let one of these "auction men" "hand you a lemon," with one of these so-called American full-bloods with questionable breeding.

PRICES REDUCED ON ALL HIS "SHOW HORSES" (60) \$200 TO \$500 EACH

Write for Iams' million-dollar horse catalog. Iams' guarantee is backed by "half a million dollars." References: Omaha National and First National, Omaha, Neb.; Citizens National, St. Paul State Bank and First State Bank, St. Paul, Neb.

ST. PAUL, NEBRASKA.



VOL. LV. NO. 17

DES MOINES, IOWA, APRIL 28, 1910

WHOLE NO. 2742





The Gearless HAY LOADER

The Gearless is Cheapest Because

It will outlast several of other makes. It loses no time for repairs. It does more work day after day than any other. Its light draft saves the horses. Its very simple construction saves repair bills. One man (the driver) can operate it. The *Gearless* Hay Loader does not thresh out the seed, chew up the hay or tear off the leaves from clover or alfalfa. It has the long, easy stroke of the hand rake; is practically noiseless and does not pound itself to pieces as the short stroke loaders do. In every point the *Gearless* Hay Loader is superior to every loader on the market and sells at such a reasonable price that every farmer can afford one. We want to tell you more about the *Gearless* Hay Loader and would like to send you our illustrated advertising matter. Write us today.

LA CROSSE HAY TOOL COMPANY
29th Street, CHICAGO HEIGHTS, ILL.

STOP PAYING HOLD-UP PRICES

Our prices, quality and service will prove that you can do better here than anywhere else. We sell highest grade lumber, millwork, builders' hardware, roofing, paint, cement, etc., direct to consumer at wholesale prices. Quality has been the making of our immense business and our prices are right.

LET US FIGURE YOUR LUMBER BILL

We are independent of all combinations and make our own prices. We pay your expenses to Council Bluffs and also pay freight on carload shipments. Our delivered prices on local shipments will save you money. Send us this coupon.


C. HAFFER LUMBER CO.,
COUNCIL BLUFFS, IOWA.

I am a reader of Iowa Homestead and want to know more about your plan. Please send catalog.

I expect to build.....when.....

Name.....

Postoffice.....State.....



WANTED—RIDER AGENTS IN EACH TOWN and district to ride and exhibit a sample 1910 Model "Ranger" bicycle furnished by us. Our agents everywhere are making money fast. Write at once for full particulars and special offer. **NO MONEY REQUIRED** until you receive and approve of your bicycle. We ship to anyone, anywhere in the U. S. without a cent deposit in advance, freight, and allow TEN DAYS' FREE TRIAL during which time you may ride the bicycle and put it to any test you wish. If you are then not perfectly satisfied or do not wish to keep the bicycle you may ship it back to us at our expense and you will not be out one cent.

LOW FACTORY PRICES We furnish the highest grade bicycles. It is possible to make middlemen's profits by buying direct of us and have the manufacturer's guarantee behind your bicycle. **DO NOT BUY** a bicycle or a pair of tires from anyone at any price until you receive our catalogues and learn our unheard of factory prices and remarkable special offer.

YOU WILL BE ASTONISHED when you receive our beautiful catalogue and study our superb models at the wonderful low prices we can make you. We sell the highest grade bicycles at lower prices than any other factory. We are satisfied with \$1.00 profit above factory cost. **BICYCLE DEALERS**, you can sell our bicycles under your own name plate at double our prices. Orders filled the day received.

SECOND HAND BICYCLES—a limited number taken in trade by our Chicago retail stores will be closed out at once, at \$3 to \$8 each. Descriptive bargain list mailed free.

TIRES, COASTER BRAKE and everything in the bicycle line at half usual prices. Interesting matter and useful information. It only costs a postal to get everything. Write it now.

MEAD CYCLE CO. Dept. D184, CHICAGO, ILL.



Taroleum Better than Paint at 1-10 the Cost

A paint, a wood and iron preservative, a disinfectant. Its many uses make it worth many times the price. 50 gallons \$7.50. Satisfaction absolutely guaranteed. Write for FREE booklet and complete information.

OMAHA GAS CO., 1836 S. 20th St., Omaha, Neb.



There's strength, comfort and good style in a Kratzer Wagon

You will be offered spring wagons at a lower price than we sell the Kratzer spring wagon. You will probably be offered many at higher prices. But no wagon will ever give you so much service, comfort and good appearance as a Kratzer, no matter what price you pay.



bought them twenty years ago are strongest in their praise to-day.

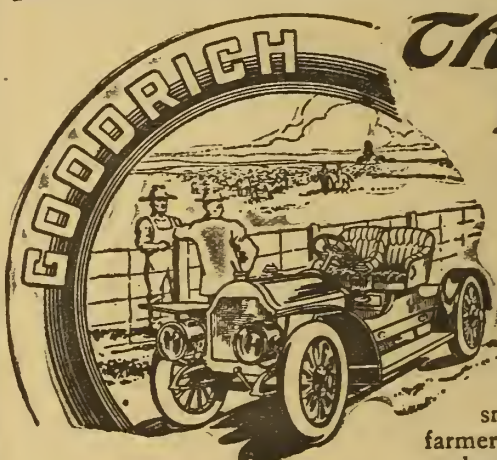
Write us for a copy of our booklet, "Some Inside Facts About Kratzer Vehicles." We'll tell you where you can see a line of Kratzer vehicles. The dealer will be glad to let you go over them and will give you all the information you want.

We're making our wagons just as good as the best material and conscientious workmanship can make them.

For twenty years they have been tested by actual use—and those who

KRATZER QUALITY CARRIAGES

KRATZER CARRIAGE COMPANY,
104 West South First Street,
Des Moines, Iowa



GOODRICH The Tire for hard Work

Touring over state and county roads in all seasons and making daily trips of inspection about the farm or ranch, will bring out the weak points of tires that might do well enough on smooth city boulevards. But the farmer requires good, every-day service—that's the kind of service he will get

if he makes Goodrich Tires his regular equipment.

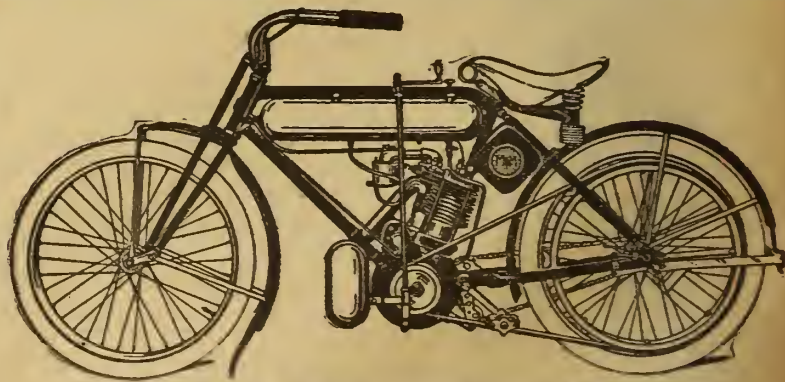
Goodrich Tires are built for hard work and have absolutely proved their strength and superiority in the big, cross-country endurance runs, the Glidden Tours and other tire-racking tests everywhere.

The Goodrich Tough White Tread and specially strengthened fabric make Goodrich Tires supreme in shock-resisting durability, yet they are truly "boulevard tires" in ease and resilience.

Goodrich Tires cost no more than inferior tires,—and when it comes to tires—the Farmer or Stockman Must have the Best.

If you are in doubt as to which are the best, send today for interesting, illustrated matter, showing what these tires have done for others and Why they are the best for you **FREE** for your name and address.

The B. F. Goodrich Company, Department C, Akron, Ohio



M. M. MOTORCYCLES

Save money and time for Police Departments, Mail Carriers, Telephone Men, Doctors and Solicitors.

Why can't it do the same for you?

Mr. Farmer, you know that horse flesh cannot compete with gasoline power.

The cost of a motorcycle is very low, and its up-keep amounts to practically nothing.

You are keenly alive to the saving made by every improved farm tool.

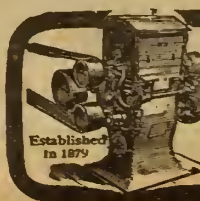
Get an M. M. Motorcycle and double the pleasure of farm life for the boys.

Get our literature today.

AMERICAN MOTOR COMPANY

801 Center Street,

Brockton, Mass.



Roller Feed Mills

20 DAYS FREE TRIAL The only scientific and up-to-date method of grinding feed. Burr and stone mills have had their day. At present cost of land and labor you can't afford to feed whole grain—one-half of it properly ground by our roller process has equal value. Our mills have great capacity—require little power—last a life-time. Built in 13 sizes to suit any power. Sold on 20 days absolutely free trial. Write for catalog F.2 R R HOWELL & CO., Minneapolis, Minn.

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, APRIL 28, 1910.

THE VALUE OF ARBOR DAY

"In conformity not only with custom grown old by observance but with the principles of conservation in which tree culture is an important and necessary factor and to encourage the growing of trees and the reforestation of the state," Arbor Day will be generally observed this year. Different dates have been selected by the different states, so that there is no uniformity of observance as might be desired. For instance, Arbor Day in Missouri was celebrated last week, April 20th. Arbor Day in Iowa will be observed tomorrow, April 29th. Arbor Day in Wisconsin will be observed Friday of next week, May 6th. Notwithstanding the difference in dates the states unite in the opinion that it is good to set apart one day of every spring to inculcating in the public mind the idea of the value not only of trees but of birds and all nature as well.

In practically all the states of the grain belt the various governors have issued proclamations, of which that of Governor Carroll of Iowa, is a fair sample. Governor Carroll urges the observance of Arbor Day "in a fitting and consistent manner by the planting of trees, shrubbery and climbing vines to make the environment of home, farm, church and school more beautiful. I especially request that the public schools stimulate the sentiment of the day by public exercises, instilling into the minds of our youth the benefit derived from the cultivation of our national flora and the retention of our forest groves, and I further recommend that the farmers and land owners of the state take advantage of this day for the planting of orchards, forests and groves and that added interests be taken in the matter of tree planting and tree culture." That Governor Carroll's advice has been followed in the past is evidenced by the fact that in Iowa, which is characteristic in all probability of the entire grain belt, there are more trees today than ever before. Thousands of trees have been planted to shade the homes and



THANKS TO ARBOR DAY MANY LAWNS ARE BEAUTIFIED AND WASTE PLACES DOTTED WITH TREES, MAKING THE DAY ONE OF PRACTICAL VALUE.

streets. The primeval forest in Iowa was generally sparse. Old settlers declare that the pioneers could drive almost anywhere with a wagon among the trees as they stood sixty years ago. The smaller trees as they are known today have sprung up in the decades since the first settlers crossed the Mississippi river. Yet with all the progress that has been made in the past, interest in reforestation is not up to the point where it should be and the annually recurring Arbor Day celebrations are relied on to awaken interest both in the young and old and to keep the forests from being depleted and to replenish the waste places with the trees of which cupidity and commerce have robbed them.

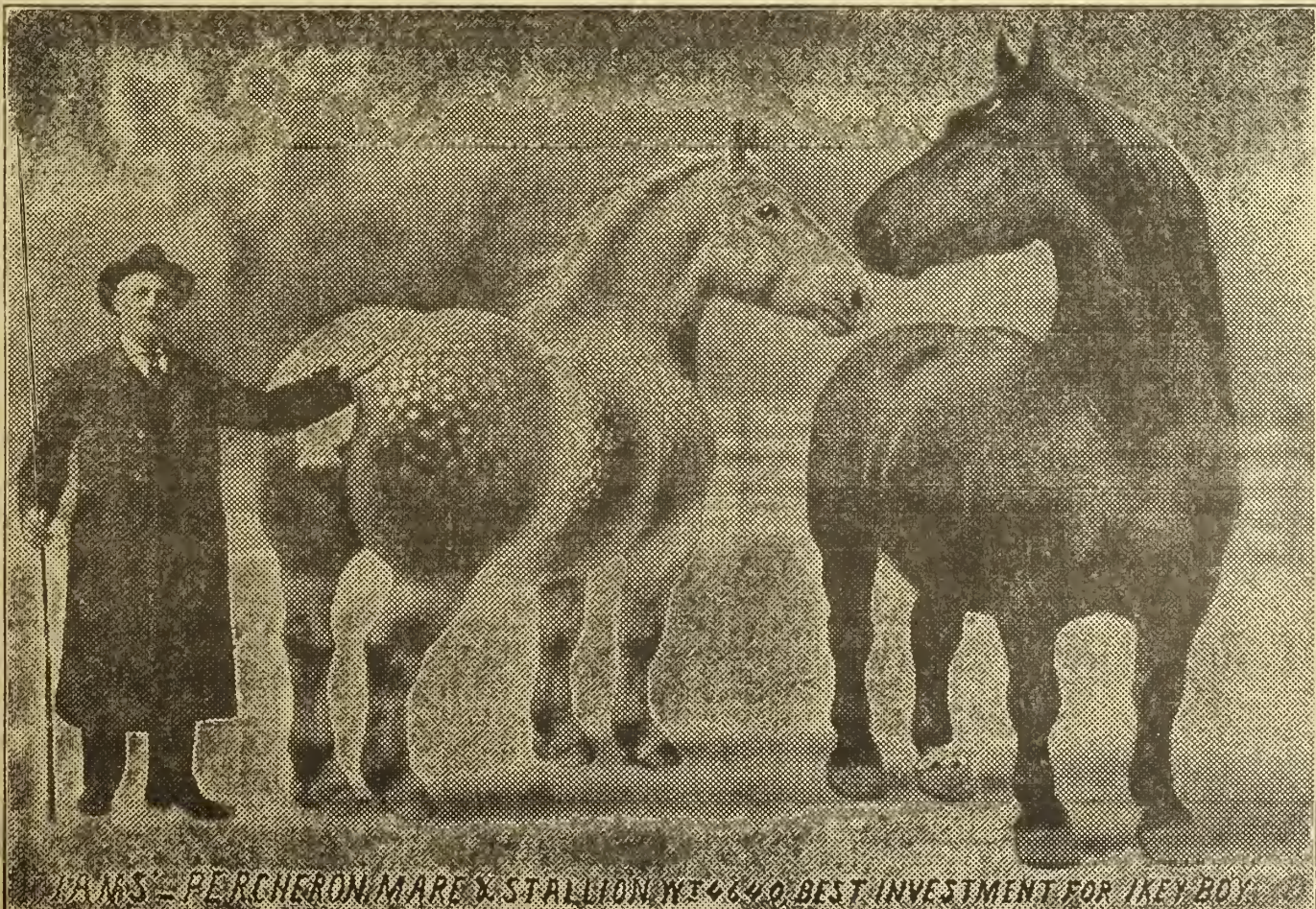
In this matter of keeping up the forests America has much to learn from Europe, where no trees are cut without the planting of others to replace them. America has gone ahead depleting its woods without thought of what the future might bring. The case of

doubtedly coming when these sections of sandy land will be found profitable for reforesting either by private capital or by the state. In this crusade the Arbor Day celebrations are undoubtedly playing an important part. How important this is is pointed out by a subscriber, Mr. F. B. Swingle, of Racine, Wis., who says in this connection:

"The observance of Arbor Day each year in so many states is significant. It is a certain indication that the American nation is awakening to the great importance of tree planting. From an economical viewpoint, this is, of course, the main object. We may state the fact in many different ways. We may write it, speak it, or sing it; but it cannot be shouted too loudly or too often. Plant trees! Men and women should not any longer demand reasons for the propagation of trees. The need is obvious. School children, however, should be taught what it means to plant a tree; that it makes the school yard or the

Wisconsin is typical. In seventeen counties of that state, comprising the district known as the Sandstone Belt, immense fortunes have been taken out in the shape of white pine timber. In place of a new growth of white pine to replace the old depleted forests, there are today whole townships of burned over tracts where the forest growth has been killed and where only a poor attempt is being made at settling the region as cheap farming lands. The day is un-

home croft more attractive and pleasant, that it helps to avoid a waste of nature's gifts; and altogether tends to make men more careful and thoughtful, and more appreciative of what they enjoy every day as a mere matter of course. This is being done, but not enough. Trees are being planted, but not enough. Perhaps the school children of Wisconsin will plant 20,000 trees this Arbor Day, but what is an average of less than 300 trees in each county of a great state? What are 300 trees in a county like Marathon? One tree to



PAIRS - PERCHERON MARE & STALLION WT 4640 BEST INVESTMENT FOR KEY BOY
A PAIR OF PEACHES AND CREAM IMPORTED STALLIONS, OWNED BY MR. FRANK IAMS, ST. PAUL, NEB. THESE AND OTHERS OF THEIR KIND MUST BE SOLD. PRICE REDUCED FROM \$200 TO \$500 PER HEAD. SEE PAGE 33.

(Continued on page 5.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second class matter

PUBLISHED EVERY THURSDAY

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SECRETARY OF AGRICULTURE CRITICISED.

In an address recently delivered before a city club of Chicago, Prof. C. G. Hopkins, of the University of Illinois, took occasion to severely criticize the present head of the National Agricultural Department, Secretary James Wilson. Although Professor Hopkins' shaft was aimed directly at Secretary Wilson, in reality it was a criticism of some of the doctrines taught in bulletins issued from the soils division of the department, relating to the possibility of ordinary soil notwithstanding the effect of cropping.

The following paragraphs were quoted by Professor Hopkins as having emanated from the department of agriculture as being particularly heretical:

That "practically all soils contain sufficient plant food for good crop yields, that this supply will be indefinitely maintained."

That "so far as the present outlook is concerned, the nation possesses ample resources in its soil for any conceivable increase in population for several centuries."

That "the soil is the one indestructible, immutable asset that the nation possesses. It is the one resource that cannot be exhausted; that cannot be used up."

That "from the modern conception of the nature and purpose of the soil it is evident that it cannot wear out, that so far as the mineral food is concerned, it will continue automatically to supply adequate quantities of the mineral plant food for crops."

That "as a national asset the soil is safe as a means of feeding mankind for untold ages to come."

In his comments on these pertinent paragraphs Professor Hopkins said:

Can you blame the farmers for continuing to wear out their lands when these are the widely promulgated teachings from the position of highest authority in this country? And this false teaching is the more to be condemned because the most common soil type on the abandoned farm lands of southern Maryland near the city of Washington is found to contain only 160 pounds of phosphorus and 1,000 pounds of calcium in the plowed soil of an acre, while the richest black prairie soil of Illinois, with a value exceeding \$200 an acre, contains in the same stratum more than 2,000 pounds of phosphorus and 40,000 of calcium.

But even in Illinois our older soils are showing unmistakable signs of depletion, and the addition of mineral plant food is producing marked and profitable improvement, not only on the university experiment fields which are being conducted in various parts of the state, but also on the fields of the more progressive farmers who are already using, not the common commercial fertilizers, but thousands of tons of bone meal, finely ground natural phosphate, and limestone, in connection with legume crops or farm manures.

Thus, as an average of the last six years, the application of phosphorus and limestone has increased the yield of corn on the Urbana field from sixty-four to eighty-seven bushels per acre, and the yield of wheat on the Odin field, in the heart of "Egypt," from fifteen to twenty-seven bushels per acre. On the Galesburg field, in western Illinois, the use of raw phosphate has more than paid its cost and left the soil 25 per cent richer in phosphorus at the end of six years. On the Antioch experiment field, in Lake county, the use of phosphorus produced five bushels more corn in 1902 and fifteen bushels in 1903; no increase in oats in 1904, but twenty-five bushels of wheat in 1905; while the increase was twenty-six bushels of corn in 1906 and four bushels in 1907. In 1908 the increase was nine bushels of oats, and in 1909 it was twelve bushels of wheat. These

are the increases in yield per acre produced by phosphorus in the commonest type of soil in Lake county, which contains in the plowed soil of an acre only 800 pounds of phosphorus, but 47,600 pounds of potassium; while fifty bushels of wheat remove from the farm twelve pounds of phosphorus and only thirteen pounds of potassium.

Professor Hopkins has possibly accumulated more data as a result of his investigations regarding the effect of adding phosphorus to a soil than any station worker in the United States. As a result of experiments extending over a large acreage in different parts of the state he has demonstrated that the cropping of soils depletes the phosphorus supply to that point where they cannot produce a maximum profit, and he has proved conclusively that under certain circumstances a given investment in some form of phosphatic fertilizer is invariably a profitable venture. It looks to the outsider as if the National Bureau of Soils would have to back down from their position that soil cannot wear out and that it will continue automatically to supply adequate quantities of the mineral plant food for crops.

SOWING RAPE IN OATS.

An Iowa subscriber asks if it is practicable to sow a few pounds of rape seed per acre in an oat field in order to use it for pasture after the crop is taken off. To this we will say that this plant is entirely practicable and all things considered we much prefer the method of sowing the rape three or four weeks after seeding the oats than we do to sowing the rape and oats together. If the rape is sown after the oats are well started there is very little danger of the rape coming on so rapidly as to smother the oats, while on rich land where the two are seeded together this is very apt to occur.

Sometimes rape does not make much headway when seeded in oats because of the fact that it is a difficult matter to cover the seed. The harrow is too heavy and a comparatively small percentage of farmers own weeders, so that as a result the seed must simply go uncovered. It is worth taking the chance, however, because in the majority of cases the spring rains will cover the seed sufficiently to germinate it. If conditions are reasonably favorable the rape will possibly be six or eight inches tall when the oat crop is ripe, and of course it comes on very rapidly after that, furnishing as it does a large amount of excellent pasture for hogs, sheep or cattle.

A BAD BATCH OF SEED CORN.

It is getting a little late in the season to talk about seed corn, but the conditions have been so unusual since the hard freeze last October, that it may not be out of place to publish one more letter, a letter which describes in a forceful way the condition of one batch of seed, though, no doubt, the description would answer in tens of thousands of cases that could be found in the central West. This Iowa subscriber says:

I think some of your readers will be interested in a little experience that I have passed through with my seed corn, and I submit it to you for what it is worth. I was fortunate enough in having had my regular supply of seed selected almost two weeks in advance of the freeze last fall. It was kept in the barn for a time and no doubt got pretty well chilled the night of the cold spell, but later on it was put into racks in my dwelling house. A careful test of that seed revealed the fact that at least 97 per cent of it germinated, though there was about 25 per cent of it that had rather a weak appearance. In some cases only four or five kernels grew, and in other cases, three, while in a few instances, only one or two out of the six germinated. I saved only the seed that produced six good, strong stems and a perfect root system, and as a result, I have practically enough good corn to plant my acreage. I thought, however, I would like to try a little of the corn from the crib, as the crop was well ripened last fall, and so I selected out 400 ears. It so happened that the day this corn was selected, two of my neighbors called on me and we all three spent considerable time in picking out this corn. A few kernels were taken from every ear and closely examined and we only saved what in our opinion was perfect. After selecting the 400 ears, six kernels were taken from each ear and these were put in a Holden tester. Now, I would like if your readers could simply make a guess at the result of that test. Possibly some would say that it would germinate 75 per cent; others might esti-

mate it as low as 50 per cent. Both of these estimates are too high, because out of the 400 ears I just got sixteen good ones, which of course, is 4 per cent.

The result of this test was a great surprise to me, because I have always been conceited enough to believe that I could tell a good ear from a poor one, and one of my neighbors in this case was absolutely sure that he could, and indeed he was so emphatic about the matter that he considered it a waste of time to test the corn. As it turned out, I think I am well paid for the labor put on it. To those who are thinking of planting corn without testing it, I would say that it will pay if you can't buy a supply of good seed, to take the time right in the planting season to do your testing. Better plant good corn at least two weeks late, than to take your chances with seed that you do not know anything about.

If the experience of the last few months in the matter of seed corn has done nothing more, it has demonstrated to the great majority of farmers that the vitality of corn may be impaired without this having any visible effect on the appearance of the seed, and the man who claims that he can tell a vital ear from one that is not vital, is treading on dangerous ground, because he is the individual who is likely to have the poor stand this year. The season is getting late, as intimated above, but there is a good deal in the advice given by this subscriber, about taking the time right in the middle of the planting season to test the seed if it has not been tested beforehand.

SMOTHERING THE MORNING-GLORIES.

The morning-glories never started stronger than they have this spring and the crop will be a heavy one unless something unforeseen happens. This pest is on the increase and a great many communications are received from subscribers asking for some easy method for destroying morning-glories. Unfortunately we are not able to present an easy method, but we do know from experience that morning-glories can be destroyed in one season by the use of smother crops.

To eradicate morning-glories by this means they should be kept in check until well on in June or possibly until the first of July, by frequently stirring the surface soil so as to keep the leaves from forming. Each time the leaves are cut off the root system is weakened and conditions are therefore made favorable for the smother crop.

There are several crops that may be used for the purpose of smothering bindweed or morning-glories and a choice should be made of the one that can be most easily handled. Where considerable stock is kept, millet answers the purpose admirably. If seeded at the rate of three or four pecks per acre and if the soil is thoroughly stirred just before sowing, the glories will never show themselves above ground. Millet is a warm-weather crop and it partakes just enough of the nature of a weed to afford the stiffest kind of opposition to all other weeds. It will only be a few weeks after sowing until the crop thoroughly shades the ground and after that no perennial plant like the morning-glory need apply for space because there will be none available. Let the millet grow until the seed is just forming, then cut and cure it just as one would cut and cure hay. It makes excellent feed for cows, horses, or indeed any kind of live stock.

Cane or sorghum is, if anything, a better smother crop than millet, but the yield is so enormous on rich soils that it may not be practicable to grow cane on a large area. Cane should be seeded at the rate of at least eighty pounds per acre and indeed there are those who advocate sowing as thickly as one hundred pounds per acre. Rape also may be used to very great advantage for this purpose, providing the seeding is done when there is plenty of moisture in the soil to rapidly germinate the seed. If the crop gets a good strong start it will head off the morning-glories.

This doctrine applies wholly to those instances where a comparatively small area is infested with morning-glories and, of course, it will not be at all practicable under ordinary conditions to clear a whole farm by these methods in a short time. It must be taken up one field at a time,

but as morning-glories are not profuse seeders there is no reason why this plan cannot be carried on until the whole farm is covered.

GROUND FOR ALFALFA.

There are at least two distinct and separate methods of preparing ground for alfalfa when it is intended to sow the crop in the fall. The first and most common one is to first grow a crop of small grain, upon the removal of which the land is plowed and the seed bed prepared by the free use of the harrow for the reception of the seed. We find that this plan is the one that is carried out in the main and it quite often succeeds. The objection to it is that the grain crop will often so dry out the soil that there is not enough moisture left to germinate the seed. Rather than give up the use of the land for a year however, it is in the majority of cases advisable to try out this plan.

It is a singular thing, however, that many experienced alfalfa growers do not first attempt to produce a crop on a soil, but adopt another method entirely. In that case the soil is plowed either the previous fall or in the spring and it is kept cultivated during the spring and summer months. This is what might be called the summer-fallow method and it is almost an absolutely sure way of getting a uniform stand as well as a strong growth the first fall. Those who are planning on the adoption of this method should keep in mind that a little farmyard manure contributes more to a thrifty growth of alfalfa than anything else. This may be applied before plowing in the spring or it even may be used as a surface dressing to be worked into the soil later on. Where a plentiful supply of manure is used it scarcely ever happens that the peculiar organisms which live on the roots of alfalfa are missing, and as a result the crop grows strongly right from the start.

In this connection much ought to be made of the fact that the preparation of an alfalfa seed bed in this way constitutes an ideal plan for destroying perennial seeds. Incidentally, of course, annual weed seeds that are near the surface will germinate and they will in turn be destroyed, but such plants as morning-glories, quack-grass and thistles can be killed outright by plowing land in the spring and keeping it thoroughly cultivated on the surface until it is time to sow alfalfa.

CORN CULTIVATION.

Dr. Cyril G. Hopkins, generally recognized as one of the most eminent authorities upon soil fertility and crop growing in this country, considers there are but six essentials in crop production. These are: Seed, a home for the plant, the food of which the plant is made, moisture, heat and light. Of these three are very much under the control of the farmer: Seed, plant food and moisture. Of course, in one sense the farmer can exercise little or no control over the moisture content of his soil. He cannot say how much or how little water will fall upon his land. On the other hand, he can force much of the surface water to drain away through land tile and he can so cultivate as to conserve much of the moisture that is in the soil. The conserving of moisture is, in fact, one of the very first purposes of cultivation.

Mr. Wilbur F. Stiles, a Jefferson county, Wisconsin, farmer, who regularly produces a good crop of corn, attributes no small portion of his success to his methods of cultivation. He describes these as follows:

The rule to generally follow in cultivating is to keep the surface loose and mellow, in order that it may act as a mulch to prevent the water in the soil from coming to the surface and being evaporated. The plants usually require this later in their growth and by proper cultivation it can be held in store for future need.

Farmers often cultivate to eradicate weeds and this is a good practice, for it certainly requires a good soil to produce good crops of corn and weeds at the same time. The destruction of weeds, however, should not be the primary reason for cultivating. The conservation of the soil moisture should be the first consideration and the killing of weeds, the second. To keep a surface mulch on the fields during the greater part of the season is really one of the secrets of successful corn growing. This mulch need not be deep—in

most cases it is better to have it shallow—but it is necessary to have it renewed when it is destroyed in any way. It is perhaps most easily destroyed by rain. Water falling upon the surface soil compacts it and unless it be loosened in some way, the capillaries in the soil below united with those at the surface and in a dry time the water is pumped to the surface at a rapid rate and is lost.

A cultivator with many small shovels is preferable to one with large blades. Never is it wise to cultivate deep or close to the corn and during the last half of the season, all the cultivation should be decidedly shallow. How late in the season it is advisable to continue the cultivation, will depend upon the season itself. In a dry season it is particularly advantageous to keep a dirt mulch on the surface.

In many more cases than are commonly supposed, lodged corn is caused by the cutting of the brace roots during cultivation. If the ground is properly worked before planting and the conditions are normal there is no necessity of deep cultivation and especially during the latter part of the growing season. Before the roots get well established little harm can be done by digging deep. It is however much better, as Mr. Stiles indicates, to use a shallow digging cultivator which is provided with a large number of shovels instead of a deep cutting attachment.

HARROWING CORN AFTER PLANTING.

If one could be sure of having just the right kind of weather during the time he is putting in and taking care of his corn crop it would not be a difficult matter to be scientifically exact in the methods adopted. When our labor, however, is punctuated by frequent rains many plans are bound to miscarry.

In a general way, however, it is practicable to do a tremendous amount of weed destruction before it is time to use the cultivators. From the standpoint of sound agricultural practice it is rank heresy to put corn in a soil where weeds have already started. If that is done no amount of skilful labor will ever head them off, particularly in the corn hills. We have preached in season and out of season about the necessity of thoroughly disking or harrowing the soil just before planting and we have no hesitation about repeating that advice.

But that is not enough, because the best opportunity under average circumstances that is afforded during the whole season to destroy weeds is after the crop is planted, but before it germinates. Two or three harrowings just as the corn is ready to shoot through the surface soil will often give the weeds such a check that they can never compete with the corn, and because of this we believe most sincerely that one can afford to plant part of his acreage somewhat late rather than to miss the opportunity of giving proper attention to what is planted early. While we appreciate as much as any man the necessity of getting the crop in in good time, yet on the other hand a few days' delay in planting does not always mean that the crop will be that many days late in ripening. Bear in mind that the soil is warming up all the time and extra tillage on the surface the more rapidly liberates fertility, so that the crop when it is planted comes more quickly and more strongly.

We are not advising men to do the things that we are unable to do on our own farm. It has paid us and paid us well to do lots of harrowing on the corn ground after planting and the practice will be just as profitable for others as it is for ourselves.

NEW IDEAS IN COLLEGE WORK.

The agricultural colleges of the various states have displayed unusual activity this spring. Not only have special seed corn testing trains been run in several states of the grain belt, but in all sections of the country this work of bringing the college home to the farmers has been prosecuted with diligence and success.

In Idaho a potato special has aroused interest. The railroads have co-operated with the state college authorities and the citizens have become interested to the extent of offering several large monetary prizes for the best acre of potatoes grown this season.

Massachusetts has introduced an in-

novation by operating an instruction train by trolley over the numerous interurban lines which network the state. So far as known this trolley farming special was the first one ever run over street railway lines. There were a dozen or more instructors and professors from the state agricultural college, the secretary of the state board of agriculture, the state forester and representatives of various boards of trade. There were four cars carrying interesting exhibits of things of value to farmers, the exhibits ranging all the way from bugs to models of good and poor cows and from apples packed right to food for fowls.

Texas has secured a place in this race for college innovation by establishing a chair of good roads in its state agricultural college. The authorities recognize that there is a growing necessity for better highways as population increases and the traffic and travel become heavier. It also realizes that good roads building is a subject upon which the great mass of the people know very little, and yet it is upon the people that rests the burden of supporting the highways. The building of good roads means progress along all lines of human endeavor and Texas proposes to take a front rank in systematizing the work.

It is a splendid thing for the farmer that such progressive, wide-awake ideas are prevailing in the state agricultural colleges. His material comforts and his profits are being looked after by experts who have been trained in practical things and to whom is due much of the credit for the revolution in farming methods which has been brought about within recent years.

LAND VALUES SECURE.

In the boom days in Kansas when everybody was crazy about real estate, a considerable portion of the state was blanketed with mortgages. A daily newspaper recalls that when the bottom fell out of the boom land values went down to zero and the mortgages could not be paid. Eastern financiers had invested heavily in these mortgages and in many instances sold them out for less than the proverbial song. The experience of one investor is thus related by a Kansas correspondent: "A Boston investor sold a mortgage to a speculator who secured the land for about five cents an acre. It is now worth \$15 an acre. He tried to secure it by foreclosure, but the court held that the mortgage was outlawed. The supreme court's decision is awaited with interest, as it affects hundreds of mortgages in the East, as well as those who have purchased land in the West by the same process. Many farms and ranches in the western part of the state are selling for \$20 to \$40 an acre that changed hands a few years ago for \$2 an acre. The rise has made the investors rich, and had the eastern mortgagees who were discouraged over their investments been content to wait they would all have made money and have received full return of all their investment and interest."

The daily newspaper referred to, commenting on the transaction, remarks that with the gradual increase in the value of good farming lands in this country it is hardly probable that any repetition of this special chapter in land history will ever be chronicled. "Kansas lands now have an abiding value that is even greater than the paper value of twenty odd years ago. The state has developed and prospered and its farmers have made money."

The day of cheap land in the grain belt is, in all probability at an end. The prediction is made that farm land in Iowa will go to \$500 an acre before many more years have passed. Land has already reached this figure in the Pacific Northwest, where acre tracts adjacent to prosperous cities are bringing from \$100 to \$1,000, with a large number of eager buyers always on the market. The Pacific Northwest may or may not duplicate the Kansas experience, but one thing is pretty certain and that is that the gradual, well-founded rise in land values in the grain belt will continue. It is not an artificial increase, but one founded on sustained and deserved prosperity.

THE VALUE OF ARBOR DAY.

(Continued from page 3.)

each five square miles or more; one tree to 3,200 acres; one tree to each forty-two families; two trees in each village. In other words, the total number of trees planted by the school children of a single state annually would just about start an ordinary farm wood lot. We must admit that one wood lot a year is not enough.

So it is not in the relatively small number of trees that are planted on this day that we find the true worth of Arbor Day. The trees which are planted, and live, do much toward brightening the spots upon which they grow. The real value of the observance of such a day lies in the special lesson that is taught to boys and girls on this occasion.

The state of Nebraska in 1872, through the efforts of Hon. J. Sterling Morton, was first to institute a system of tree planting on a given day. Minnesota is credited with next following, with Kansas and Tennessee close seconds. Then Ohio, Iowa, Illinois, Michigan and West Virginia soon followed the custom. Today every state and territory, with the exception of Delaware, has set apart a day to encourage the preservation of trees and for the purpose of tree planting, officially known as Arbor Day. So accustomed have become the people to these observances and so well posted are they as to the necessity of preserving the forests and reforesting the waste places, that injunctions as to how the work should be carried on and its necessity, both from a practical and a utilitarian standpoint, seem hardly necessary, yet one or two quotations are too appropriate to be overlooked. Washington Irving said: "He who plants an oak looks forward to future ages and plants for posterity. Nothing can be less selfish than this. He cannot expect to sit in its shade or enjoy its shelter, but he exults in the idea that the acorn which he has buried in the earth shall grow up into a lofty pile and shall keep flourishing and increasing and benefiting mankind long after he shall have ceased to tread its paternal fields."

Theodore Roosevelt once made this Arbor Day plea:

A people without children would face a hopeless future; a country without trees is almost as hopeless; forests which are so used that they cannot renew themselves will soon vanish, and with them all their benefits. A true forest is not merely a storehouse full of wood, but, as it were, a factory of wood, and at the same time a reservoir of water. When you help to preserve our forests or to plant new ones you are acting the part of good citizens. The value of forestry deserves, therefore, to be taught in the schools, which aim to make good citizens of you. If your Arbor Day exercises help you to realize what benefits each one of you receives from the forests and how, by your assistance, these benefits may continue, they will serve a good end.

As Mr. Swingle pointed out, undoubtedly the main value of Arbor Day lies in the school observances, which are even more important than the planting of individual trees. The superintendent of public instruction in many of the states issues printed matter for the use of the schools for the Arbor Day exercises. One of the most interesting of these sets forth a dialogue participated in by several children, each carrying a branch of the tree described. The recitations are as follows:

First Pupil: I speak for the elm. It is a noble tree. It has the shape of a Greek vase and such rich foliage running down the trunk to the very roots, as if a vine were wreathed about it.

Second Pupil: My favorite is the maple. What a splendid cupola of leaves it builds up into the sky. And in autumn, its crimson is so rich one might call it the blush of the woods!

Third Pupil: The birch is a tree for me. How like a shaft of ivory it gleams in the daylight woods! How the moonlight turns it into pearl!

Fourth Pupil: What a tree is the oak! First, a tiny needle, rising toward the sun, a wreath of green to endure for ages. The child gathers the violet at its foot; as a boy, he pockets the acorns; as a man, he looks at its towering heights and makes it the emblem of his ambition.

Fifth Pupil: The oak may be the king of the lowlands, but the pine is king of the hills. There he lifts his haughty head like a warrior and when he is roused to meet the storm, the battle cry he sends down the wind is heard above all the voices of the greenwood.

All: Hail to the trees! Patient and generous, mothers of mankind; Arching the hills, the minstrels of the wind,

Spring's glorious flowers and summer's balmy tents. A sharer in man's free and happier sense.

The trees bless all, and then, brown-mantled, stand, The sturdy prophets of a golden land.

Another effective recitation is the poem by Henry Abbey, without which an Arbor Day celebration is hardly complete. This poem is entitled "What Do We Plant," and is as follows:

What do we plant when we plant the tree?

We plant the ship, which will cross the sea,

We plant the masts to carry the sails; We plant the plank to withstand the gales,

The keel, the keelson, and beam and knee; We plant the ship when we plant the tree.

What do we plant when we plant the tree?

We plant the houses for you and me; We plant the rafters, the shingles, the floors;

We plant the studding, the lath, the doors, The beams and siding, all parts that be;

We plant the house when we plant the tree.

What do we plant when we plant the tree?

A thousand things that we daily see. We plant the spire that out-towers the crag;

We plant the staff for our country's flag; We plant the shade from the hot sun free—

We plant all these when we plant the tree.

The intent and purpose of all these celebrations is to make the spirit of Arbor Day at once instructive and benevolent. "Its aim is the public good in some form and it has a wide outlook. There is nothing narrow or selfish about it. If it plants trees it is not for the benefit of any individual alone, but for all who may see them and have the benefit of them, whether soon or centuries hence. It plants for those who are to come as well as for those now living. Arbor Day is the one festival or celebration which, instead of looking backward and of glorifying the heroes and achievements of the past or recounting the praises of present enterprises or actors, looks forward and seeks to make a better environment and a better inheritance for the coming generation. Its spirit is hopeful. Its motto is progress."

The Stone country (Missouri) Oracle announces that spring is here, the wood ticks having come forth thirsting for human blood. When the wood tick bites it is time to sow oats, and when the whippoorwill sings it is time to plant corn.

POSTUM FOR MOTHERS

The Drink that Nourishes and Supplies Food for Mother and Child.

"My husband has been unable to drink coffee for several years, so we were very glad to give Postum a trial and when we understood that long boiling would bring out the delicious flavour, we have been highly pleased with it.

"It is one of the finest things for nursing mothers that I have ever seen. It keeps up the mother's strength and increases the supply of nourishment for the child if partaken of freely. I drank it between meals instead of water and found it most beneficial.

"Our five-year-old boy has been very delicate since birth and has developed slowly. He was white and bloodless. I began to give him Postum freely and you would be surprised at the change. When any person remarks about the great improvement, we never fail to tell them that we attribute his gain in strength and general health, to the free use of Postum and this has led many friends to use it for themselves and children.

"I have always cautioned friends to whom I have spoken about Postum, to follow directions in making it, for unless it is boiled fifteen or twenty minutes, it is quite tasteless. On the other hand, when properly made, it is very delicious. I want to thank you for the benefits we have derived from the use of your Postum."

Read "The Road to Wellville," found in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

SUPPLEMENTARY FEED FOR HOGS.

A bulletin has recently been published by the Missouri Experiment Station giving in detail the result of swine feeding experiments conducted as long ago as 1905. These experiments were carried on during the month of April and May of that year and sixty-five hogs were used, these weighing about 120 pounds each. The hogs were divided into six lots and each lot was fed a different ration as indicated in the following:

Lot 1, corn meal; Lot 2, corn meal 18.25 per cent, wheat middlings 81.75 per cent; Lot 3, corn meal 82.21 per cent, linseed oil meal 17.79 per cent; Lot 4, corn meal 80.43 per cent, soy beans 19.57 per cent; Lot 5, corn meal 91.94 per cent, tankage 8.06 per cent; Lot 6, corn meal 60.64 per cent, germ oil meal 39.36 per cent.

Each lot was fed a full ration, this being just what they would clean up twice a day. With Lot 1 it took 471.7 pounds of corn to make 100 pounds of pork. At one cent per pound this corn would cost \$4.72. With Lot 3, receiving corn meal and linseed oil meal, there were required to produce 100 pounds of pork, 357.6 pounds of feed, of which 17.79 per cent or 63.62 pounds were oil meal, (cost $63.62 \times 15 = 95.4$ cents), and 82.21 per cent, or 293.98 pounds were corn, (cost \$2.94). Adding these two costs, \$0.95 and \$2.94, we find that 100 pounds of pork cost \$3.89.

With Lot 5, receiving corn meal and tankage, there were required 355.8 pounds of feed to make 100 pounds of pork. Of this feed, 91.94 per cent, or 327.12 pounds, were corn—cost \$3.27; while 8.06 per cent, or 28.68 pounds, were tankage—cost \$0.57. Adding these costs of corn and tankage, $\$3.27 + .57 = \3.84 , the cost of 100 pounds of pork with this ration.

In considering the replacement values of the supplements, it is necessary to bear in mind the fact that pork is not necessarily made most cheaply by the use of the supplement having the highest replacement value.

Consider, for instance, the above computation of the cost of pork. The cost is practically the same where linseed oil meal, and where tankage are used, even though tankage has a very much higher replacement value than linseed oil meal. This is due to the higher cost of tankage, and the smaller percentage of tankage used to balance the ration.

Comparing corn alone with the supplemented rations, we find that the linseed, tankage, and soy bean rations made about 85 per cent more gain in the same time. The longer the feed, the greater is the loss of possible profit by feeding corn by itself.

The wheat middlings rations were more efficient than corn alone, the gain being greater, and the feed required being less. It must be borne in mind, however, that the character of the increase was very different in these two cases. The middlings hogs grew, but did not fatten much. The corn-fed hogs were perceptibly smaller, but fatter. The middlings hogs had conspicuously heavy coats of hair.

As corn varies in price between forty and sixty cents per bushel, wheat middlings may be valued between \$19.92 and \$26.87 per ton; that is, to make it an even thing whether the middlings be used with the corn, or the corn be fed alone.

In the same way linseed oil meal varies in value, in terms of corn saved by its use, between \$37.98 and \$50.90 per ton; soy beans between \$40.56 and \$60.94 per ton; tankage between \$67.73 and \$101.82 per ton and germ oil meal between \$19.90 and \$29.00 per ton.

The linseed oil meal, soy beans and tankage rations returned very satisfactory profits, and each produced gains in weight of about 1.7 pounds per head, per day, at about the same expenditure of feed. These food-stuffs will still return a profit at considerably increased cost.

The soy bean has the advantage of being capable of successful home production. This test shows it to be particularly valuable as a hog feed. The method of this experiment furnishes a very satisfactory comparison between this feed and the others used, but for profit we would doubtless use another system. For fall feeding the beans may be "bogged off," corn being fed in addition, and the

hogs being restricted as to range over the field, by a movable fence. For winter feeding the beans may be cut a little early, cured as hay, and fed as a supplement to corn, without preparation.

The germ oil meal lots were a disappointment. This corn product seems not to be the proper thing to use as a supplement to corn; other feeds are better adapted to this purpose. The ration was neither cheap, nor efficient, nor palatable, and the gains made were not large.

The linseed oil meal, soy bean and tankage hogs were much fatter than the corn and middlings lots. The linseed oil meal hogs graded "prime" in condition and possessed that uniformly high finish which has made this feed a favorite with breeders of fine stock. The soy bean and tankage lots were graded "choice," being not quite so fat nor so uniformly fat as the linseed lot. The germ oil meal lot graded "good," was fatter than either the corn or the middlings hogs and ranked ahead of the corn lot, but much behind the middlings lot in apparent growth of frame.

FEEDING OUT PURE-BRED STEERS.

The relative number of pure-bred steers sent to the shambles annually is so small that it cuts very little figure in the total run. Their numerical importance, however, though small, is to some extent offset by the splendid account the pure-bred steer gives of himself when he is fed out for meat. It was always an agricultural event of some importance when the late L. H. Carrick landed in the market with a few loads of his pure-bred Angus steers, while the name of Charles Escher, of Iowa, has been made known from coast to coast by the wonderful pure-bred steers he has sent into Chicago. The names of scores of individuals could be mentioned who have attained both fame and riches in feeding out pure-bred cattle, and an Iowa subscriber brings the subject up in relating a little experience that he has had during the present season. Here is his letter:

Last November I put in the feed lot a car load of two-year-old steers—steers would be three years old some time this spring. They were fair cattle, all blacks, and they came from a locality where good bulls are used. Twenty out of the twenty-five would be called fairly good feeders and they weighed practically 900 pounds when put in the yard in November. At the time I bought these cattle I had a few pure-bred yearlings of the same breed and I turned them all in together. These yearlings had been run on rather poor pasture last fall and they were really thinner than the older cattle when they went into the yards and, of course, they were a year behind the grades in age. They have all run together and they have now been fed practically 150 days. I cannot give you the weights, but I believe I am safe in saying that the pure bred have gained easily one-half more than the grades. I haven't had the best of feed, being a little short on good roughage, though the steers haven't suffered. During the last three months they have had all the corn and cob meal they could eat, about two pounds of cottonseed meal daily per steer, while in addition they have had a little corn fodder each day and all the wheat straw they could eat. If they had been fed clover hay they would have made better gains all around, and this would have even been better for the young steers than the older ones, because they were growing. I believe I am safe in saying that the pure-bred steers made gains one-half larger on a given amount of food consumed and I leave you and your readers to draw your own conclusions. My own idea is that in the future we must either go one way or the other—we must either breed for beef or breed for dairy purposes, and above all other things we must not mix dairy blood and beef blood indiscriminately. The nearer we can get out cattle on a pure-bred basis the better it will be for all.

We are sorry indeed that specific weights were not given in this instance, but the illustration carries its own lesson. Why should not generation after generation of good blood tell in a meat-making machine just as much as it tells along other lines? The great dairy cows of all breeds are not accidents; they come from a dairy ancestry always. Are our noted speed horses the result of accidental breeding or are they from blue blood lineage? As a matter of fact, all our great pacers and trotters have concentrated in their veins the blood of ancestors that have been great pacers and trotters and it is

almost an unheard of thing to find a mixed-bred horse, or a so-called grade horse performing notable feats on the track.

The lesson to be learned from the illustration that comes from this Iowa subscriber is that stockmen of the central West must more and more get their breeding and feeding operations onto the pure-blood basis. They will have to more and more raise their own cattle instead of buying them as feeders, and these cattle in order to contribute to the cheapest possible gains must approach the pure bred in their breeding. Of course, we do not have enough cattle of this kind to go around and we will not have in the present generation, but we can approach the pure-bred basis by building up by the use of pure-bred sires. With a steer of the right kind of breeding, it is not a difficult task to attain a weight of 1,400 or even 1,500 pounds at twenty-four months, but it cannot be done unless steers are largely bred along beef lines. The pure-bred steer as well as the steer that is approaching well-nigh to the pure-bred standard in his breeding is the only kind of a steer to handle on \$100 land because he matures early, he puts on flesh rapidly and he puts it where it is most needed.

THERE'S ROOM IN THE COUNTRY.

The average-sized farm in Iowa (which is typical of the entire grain belt) is 158½ acres in size. On this tract of land no more than ten people live. In an area in Boston comprising only 103 acres (this being only two-thirds of the size of the average Iowa farm), 44,000 people live. Nothing which has come to light recently more conclusively shows the congested condition of the city.

The Boston report was made public this week and shows that on a piece of land which would be thought small

for a single grain-belt farm, and which is only a trifle more than twice the size of the average Iowa or Illinois cornfield, 44,000 people live in rooms 16 per cent of which are dark. The report states that more than 20,000 of these people live under conditions where they have in their bedrooms less than 400 cubic feet of air per capita; that is to say, these 20,000 people are actually living below the lowest standard fixed as the minimum by any city in the United States or Europe which has undertaken to establish a minimum. The report continues: "On the four blocks studied in the north and west ends 20 per cent, 32 per cent and 54 per cent of the families keep lodgers, and many bedrooms are occupied day and night by two sets of sleepers on each block. In one three-room apartment in Stillman street, one room was found occupied by three men, and one bed in the other bedroom by a young man during the day and by two young women at night. In the kitchen a woman sleeps during the day, and the mother and two children at night."

Such a report makes rather depressing reading to city dwellers, but should show country people how well off they are in comparison with these poor room-denied city folks. Not the least value of the census which is now being taken is that it provides statistics such as these, by which comparisons may be made showing the immense superiority of country life over city life. The movement back to the land has undoubtedly gained much headway within the past few years, but still the cities are congested and the tenement districts remain cancerous spots on the municipal body. The number of people who forsake the city for the country will have to be augmented many thousands of times before conditions such as are described in the Boston report are relieved.



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FARM FURROWS

Turned By a Practical Farmer

It is usually the case, when I get a field harrowed down fine, that night comes an old gully washer of a rain and pastes the soil down flat. This is one reason why I go slow on harrowing behind the plow early in the season.

One ear of corn that will not grow plants nearly an eighth of an acre, the same as the ear that will grow. The only way to head it off is not to plant the ear that will not grow.

The "back-to-the-land" movement has probably caught many that will be flat failures as farmers. The idea that anyone can farm, whether having the experience or not, is a back number. Some will try it who don't know a hay loader from a hog chute.

A neighbor of mine says the best dollar he ever spent was for four pounds of seed potatoes. I have since got seed of that variety from him, and after growing it two or three years, can agree that he got the worth of his money. Not all the high-priced seed lives up to the advance notice, however.

The last time I had shovels repointed the work must have been done by poor workmen, anyhow the points soon cracked loose. Since then I have bought new shovels instead of having the old ones repointed, and believe it just as cheap and more satisfactory.

If there is a seat on the tool the tendency is to rush the horses more. An hour or two added to the length of the day doesn't make much difference to the driver, but it makes the same old difference to the horses. This isn't thought of as much as it should be.

Among the first things I still remember is the sight of a horse working on a horsepower of a thrashing rig, with its shoulder raw from the point half way up. As I remember it, the lower half of the collar was red with blood. Such cruelty would not be allowed now, and I am glad the steam engine does not make it necessary.

I would not consider it a stretch of imagination to see gasoline trucks in use on the farms within the next ten years. They are taking the cities fast, and hard dirt roads will make them even more useful to the farmer than they have already become in the cities. Taking a load of hogs on a "joy ride" to market may be a possibility of the future.

At the cost of the time it took to "fell" a hackberry tree, splitting the butt cut and pinning it together, I have as good a road drag as any amount of money can buy. I have it "shod" in front with a dismantled cutter bar strip from an old mower. No need of paying fancy prices for a manufactured road drag.

Let an old sow get a taste of green in the early spring and she'll come as nearly walking through any fence as anything can. Possibly I should say under or over, but if she cannot do that, through will do just as well. I "rested" the other noon fixing up a few rods of fence that had been gently dealt with by two old sows. The old sows were also gently dealt with.

Some men would be up a stump if they didn't have a wife to do disagreeable chores for them. The other day a man drove one of his boys away from home, then took his wife in the buggy and went after him, taking the wife and mother along to brave the interior of a neighbor's house, where the boy was given a night's lodging.

A little ball playing doesn't hurt any healthy boy, and it doesn't hurt the father of the boy to spend a little time now and then watching the game. I used to "pitch" but it has been years since I have tried my hand at it, although I have been in the

"box" many times since and have done considerable pitching—of hay. It would be easier for me now to pitch a stack of hay than a game of ball.

Getting close to the row the first time has ever been a sign of good cultivating and it ever will be. Afraid of covering a little corn has been the cause of more weeds in the cornfield than any other one thing.

A lawyer friend quit his business of over half a lifetime, last year, and went to farming. He is now the happiest man on earth, and with appetite enough to eat sawdust and blue milk. When he left the town he couldn't eat porterhouse and potatoes on cream. This man, however, has the money and is not burdened with the thought that the farm must be made to pay. This makes a wonderful difference in the digestion of a man, while the change from a stuffy room to outside air does the rest.

Since calling attention to the fact that I had a horse that had developed a bad case of poll evil I have received a large number of proffered remedies. Of course, I can't use them all, but I want through the Furrows department to thank those who have made suggestions. I am going to pick out one and give it a trial, and I will report the matter later on. I know that skilled veterinarians have not been able to cure him because they have operated on him twice and he is now just as bad as ever. With me it will be either kill or cure, because I don't want him around much longer the way he is.

I am a firm believer in thoroughly disking cornstalk ground before plowing it and I notice the practice is greatly on the increase among farmers. I believe that one can increase his crop anywhere from ten to twenty-five bushels per acre by getting a good mulch on the surface before turning it under.

I know a man who is so mean and small that he couldn't find a lawyer who would take his case into court, for him, even though he was offered his fee in advance. That's a surprise to me because I always thought that some lawyers would tackle anything.

A neighbor has put in two acres of onions on land that is very weedy and judging by the rate that the weeds are coming on I imagine that somebody is going to lose some sleep over the matter before the crop is harvested. As a matter of fact, land for onions ought to be summer-fallowed the year before; otherwise the labor involved gobbles the value of the crop.

It will not be long until the farmers who do not own automobiles will be as scarce as men were twenty-five years ago who didn't have buggies.

A subscriber asks what share the owner of a dairy farm should have who furnishes the cows, the feed, separator, buildings, land and all other equipment, while the other party to the transaction does the work and delivers the cream at the creamery. This makes an interesting topic and I hope that it will be discussed by a number of subscribers.

I, for one, am very greatly interested in the cross-pollinating machine which has recently been invented. Experiments that have been conducted up to date indicate that the use of this machine will greatly increase the yield of clover seed. If it comes up to the claims that are made for it I would consider it the greatest invention of the present decade because it will have the effect of cheapening legume seed, and every man knows what a blessing that will confer upon agriculture.

A young college man, city bred and raised, says Success, answered the call for harvest hands in Kansas.

Reaching a farmhouse late at night, he was promised work and assigned to a room. It seemed to him that he had hardly fallen asleep when he was asked to get up. Disgustedly the young man dressed himself in the darkness and, picking up his grip, walked downstairs. "Say there, young feller," said the farmer, trying to be helpful, "you don't need to take your valise out to the field with you." "I know it," replied the young man tartly. "I'm going to look for a place to stay all night."

THE FARMER AND THE CENSUS.

It is highly important that the farmer should give the utmost assistance to the enumerators of the federal census which is now being taken. Not only is there a strict law providing a punishment for those who refuse to answer all questions or who withhold any material information, but the farmer will profit personally by having full and complete farm data secured by the enumerators for future publication by the census bureau.

It is an undoubted fact that city folks are lured to the country by reason of the good statistical showing made by farms and farmers. The census bureau issues a number of bulletins containing the information secured by the enumerators, so tabulated as to show the progress being made in the country. These bulletins are used by newspaper, magazine and book writers, who draw on them largely for their material in setting forth the advantages of country life over city life. The interest thus awakened, city people are induced to enter the market for farms, resulting in an increase in land values, so that the farmer profits directly by giving the census enumerators the desired information.

While the information given should be absolutely true and as accurate as though it were given under oath, there are several things which the farmer should take into consideration which he is quite likely to overlook and which make the showing for the farm better. In most computations of country incomes, for instance, the value of the house as a home is wholly overlooked. The income is apt to be based on the products of the soil and the item of house rent is lost sight of. Compared with the town man the farmer lives practically rent free. Based on taxing and real estate valuations the country home costs in rent or interest no more than \$5 to \$10 a month; that is to say, a

house appraised at \$1,000 would cost to build today from \$2,000 to \$5,000, and the difference represents so much saving in the rental outlay. To the city man this means that instead of paying \$300 to \$600 for a house or a flat, he may live in a comfortable and commodious house of ten or twelve rooms and charge no more than, say, \$100 against his income. He will need this much less cash in a year to support his family, in other words. When the farmer, therefore, makes a statement as to his annual income this house-rent detail should not be overlooked. It enters into his aggregate income fully as much as though he were to sell so many more bushels of corn or so many more head of stock at such and such a price.

Another important income detail which is likely to be overlooked is the by-product of the farm. The products for family use are seldom taken into account by the countryman. It is estimated by a current writer that for the average family of five members the total value of home-grown food products aggregates \$6.46 per week, divided as follows: \$2.62 for vegetables and fruit, \$2.24 for milk and cream, sixty cents for eggs and not less than \$1 for meats. At this rate of \$6.46 per week the total for the year would be \$335.92, but little, if any, of which is looked upon by the country family as income.

A just comparison of farm incomes with city incomes will be absolutely impossible, even by means of the most truthful information given the census enumerator, unless these matters are taken into consideration when the farmer gives his statistics. The city man who receives, say, \$1,500 a year is compelled to pay out such and such a percentage of this amount for house rent and for each and every article of diet. But the country man who receives during the year an equal amount receives in addition thereto a majority of the food-stuffs which he consumes and in many cases his house rent free of charge. It would be unfair therefore to say that a \$1,500 income in the city is the same as a \$1,500 income in the country, unless these by-products, house rents and similar factors are taken into consideration. In making economic comparisons this matter is likely to be overlooked, working an injustice to the farmer in comparison with the city man of equal direct income and standing.

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WHAT BECOMES OF THE CORN

 Distribution of the Billions of Bushels Raised in the United States Each Year---Rapidly Increasing Number and Importance of the Commercial Possibilities of Corn and Corn Products 

IN THE last ten years the United States has produced 27,500,000,000 bushels of corn. When it is learned that to transport the crop of one of the forty-six states of the Union one of the ten years would require enough freight cars to make two continuous lines from New York to Omaha some slight conception of the immensity of the ten years' crop of the nation begins to glimmer on the average human brain.

This vast amount of corn would make a mountain range rivaling the Rockies and the Selkirks.

Having raised this vast mountain range of corn, what becomes of it? The world has not taken to eating corn bread at the expense of wheat bread. Where does all the corn go?

The question is easy to answer. Four-fifths of all the billions of bushels of corn raised are used in live-stock feeding. David Rankin, of Tarkio, Mo., the largest farmer in America, raises 1,000,000 bushels of corn each year, yet never has an ear to sell. On the other hand, he is always ready to buy all his neighbors' corn. Other farmers do not go in for stock feeding on such an extensive scale, but the prodigal prosperity of the corn belt today is due to the fact that the farmers have learned to raise more corn, to feed the corn to stock and through the manure to return to the soil the elements of fertility of which it had been robbed in growing the crop. Farming has thus become a sort of "off again, on again, gone again, Finnegan" proceeding, with the bank accounts of the corn belt growing more plethoric as the success of this procedure has become generally realized. But not all the corn is fed to stock or eaten in the form of hominy, bread or cakes. Of the total crop of 2,666,000,000 bushels raised in 1908 it is computed that 241,000,000 bushels were consumed in flour and grist mill products, 8,000,000 bushels in the manufacture of starch, 9,000,000 bushels for malt liquors, 40,000,000 bushels for glucose, 190,000,000 bushels for export and 13,000,000 bushels for seed, a total of 501,000,000 or 19 per cent of the entire crop. The remaining 81 per cent, or 2,118,000,000 bushels, was used almost entirely for feeding.

The crop king provides its subjects with bread, meat and sugar, to say nothing of the "teaser" or "chaser" of whiskey. Done into pones and hoe cakes it brings "the smile that won't come off" to the face of millions of darkeys and is rapidly becoming a more popular dish on the menu of prosperous white folks.

A few years ago an exclusive corn barbecue was served in the capital city of Iowa, the occasion being known as the Feast of Puos Eziam, which is Maize Soup spelled backward. Everything on the bill of fare was a concoction of corn, and that the menu was by no means monotonous, thousands of those who were hungry, but were fed, can testify.

Fed to steers, corn supplies mankind with the best beef in the world, while annually the amount of corn converted into sugar and sugar products is rapidly increasing.

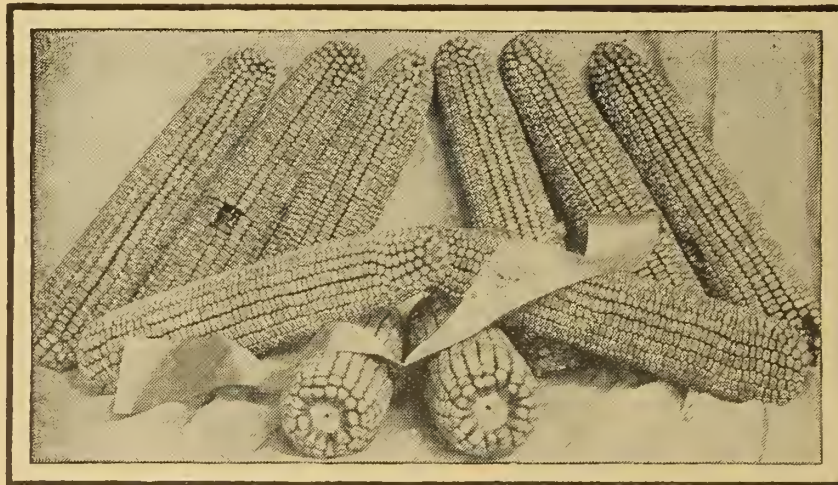
It is estimated that there is now being consumed in the manufacture of corn sirup, corn sugar and starches, about 35,000,000 bushels annually. It was not until after the civil war that experiments were started in the United States to make sirup from corn starch, the cheapest source of starch in this country. These experiments were successful and the products called "grape sugar" and "corn sirup" were made, comparing favorably with the products from potato starch. The industry grew rapidly until, in 1884, the importation of potato sirup and potato sugar, or grape sugar, fell off to a very small amount and the exportation of corn products assumed large proportions. Since that time it has grown until it is now one of the most important industries.

In 1907 there were used in the manufacture of starch and glucose 40,000,000 bushels of corn, worth more than \$20,000,000. The corn exported was 83,000,000 bushels. This means that this industry paid the farmer for about half as much corn as was exported.

The average person has little or no idea of the extent to which corn starches, sirups, sugars, oil and dextrines are used. Corn starches are used in laundries, for food (jellies and puddings), for candies (gum drops, lozenges, etc.), as sizes for stiffening and finishing warp and cop yarns and fabrics in textile industries; in paper manufacture as a filler and finisher; for cosmetics and asbestos; in brewing beer and ale and by alcohol manufacturers. Corn sirups are used for mixing with cane sirup and molasses in the preparation of mixed sirups for confec-



MORE EARS LIKE THIS AND THE CORN WOULD GO FARTHER.



PRIZE-WINNING TEN EARS AT A RECENT NATIONAL EXHIBITION.



CORN LENDS ITSELF READILY TO DECORATIVE EFFECTS.

tionery, baking, jams, jellies and preserves; for the manufacture of vinegar, brewing of beers, in the manufacturing of chewing tobacco, food sauces, canning of meats, pastes and sizes, tanning of leather, blacking, printers' rollers, shoe polishes, for finishing molds in iron foundries, in extracts, such as logwood, etc., and in silvering glass for mirrors. Corn sugars are used in the manufacture of caramel or sugar coloring and lactic acid for tanning, in the brewing of beers, ales, porters, etc., and in vinegar.

The uses of corn oil are the manufacture of soap, soft soap and soap powders, oil cloth and leather, paragon or rubber substitute, for edible purposes, shortening for bread and cake, for frying and cooking and salad oil, for cup greases and screw cutting oil, paints and varnishes and for sizing in textile industries.

Dextrines are used in the following lines of business: In the textile industry they are used in sizes for strengthening the fiber and finishing the fabric; for cloth, carpet, twine, etc., for thickening colors for calico and other printing; sizes—leather dressing, pastes, for food sauces, gums, glues and ink mucilage.

American ingenuity has made corn even more useful than the hog. There is no "squeal" loss to corn, as the thrifty farmers know how to use the cobs as fertilizers (because of the potash they contain) or as winter fuel (three tons of cobs having a fuel value equal to one ton of hard wood), the cornstalks and leaves for dairy food, the husks for mattresses and the entire plant (root, ears, stalk and all), for silage. But the commercial uses of the plant itself are many

and inventive genius is coming each year to find new corn possibilities. The more important of the present practical uses were succinctly set forth by a corn-belt farm boy, who won a prize at the National Corn Show in Omaha for the essay in which he said:

"In some localities the stalks are stripped of the leaves and ears and bound into bundles. They are then shipped to manufacturing plants. Here the pith is taken out by means of a depithing machine. The soft pith is then rolled into a fine grade of paper. From the coarser parts is made a stiff board box-board. The use of the cornstalk along this line is a promising one. The pith makes a good paper and is comparatively cheap. Manufacturing companies can make paper from corn pith two or three times as cheap as they can from wood pulp or rags.

"Someone has said that we need our corn to insure prosperity in times of peace. Uncle Sam believes

he can make good use of it in protecting his people in times of war also. The pith of the cornstalk is finding a ready use in the construction of battleships. It is used as a packing in the hulls. Pith readily absorbs water. Thus, when a shot penetrates the shell of the ship, the pith swells and closes the holes.

"After the pith has been removed, the outer shell of the stalk is ground into a meal. This meal is called 'The New Corn Product.' This is used to some extent in the preparation of stock foods.

"From the husks are made a cheap grade of hats used to a large extent in the southern states. In the northern states we make a coarse door mat out of the husks. They are also used as a packing in the manufacture of horse collars.

"The woody part of the corn plant, such as the outer shell, is composed largely of cellulose. Cellulose is used in the manufacture of explosives. It is treated with chemical compounds, such as nitric and sulphuric acids, gun-cotton the result. Nitro-glycerine, a very powerful explosive, can be very readily made from the hard, woody portions of the corn plant. From this cellulose is also made what is called pyroxylin varnish.

"After an ear of corn has been shelled, there is a soft, fuzzy coat upon the cob. This is called 'corn down.' It is used to a large extent in padding mattresses."

Daily the uses of corn become more numerous and more manifest. The popular conception of corn is that it is used almost entirely for table consumption and for feeding to stock. The fact is that no other thing raised by the farmer is so useful in such a variety of ways. Corn is not only the king of crops, it is Nature's most useful gift to man. Science is adding to these uses constantly, so that the discarded and unused portions of the plant yesterday are the commercial necessities of today. Tomorrow may see still other uses, for science has a way of experimenting and inventing, regardless of past accomplishments.

CURRENT EVENTS

WILLIAM R. HEARST, former aspirant for the democratic nomination for the presidency, has issued a statement over his own signature in which he unqualifiedly endorses President Taft. In doing so he also criticises in severest terms the administration of President Roosevelt and in so many words warns the American people against a renewal of the political domination of the former president. Mr. Hearst declares that it is hardly fair to compare Taft's one year in the white house with Roosevelt's seven "and yet I am not sure that even with that the comparison might not be to Taft's advantage. On the whole it seems to me that a quiet, earnest gentleman who came into office when the country was in the slough of adversity, and after one year in office has placed the country on the high road of prosperity is quite as valuable a president as a more showy and spectacular person, who found the country in the height of prosperity and left it in the depths of adversity." Mr. Hearst admits that he does not charge Roosevelt directly with the responsibility for the panic of 1907, nor does he undertake to give Taft the entire credit for the restoration of prosperity. He declares, however, that an administration which is producing more dividends for business men and finding work for the unemployed "should not be too carpingly criticised for certain minor faults of omission and commission." The statement is all the more remarkable in that Mr. Hearst recently made overtures to return to the democratic party from the independent party which he established and of which he is the leader. He has long been known as a political gadfly and has persistently tormented recent administrations, so that his action in coming out so strong for President Taft is one of the greatest compliments and recommendations that it would be possible for the president to have.

PRESIDENT TAFT was hissed by a number of women when he was courageous enough to confess at the convention of the National American Woman Suffrage Association that he was not altogether in favor of women having the right to vote. President Taft was welcoming the delegates to Washington, but told them frankly that he was not altogether in sympathy with the suffrage movement. He said he thought one of the dangers in granting suffrage to women is that women as a whole are not interested in it and that the power of the ballot, so far as women are concerned, would be controlled "by the least desirable citizens." When these words fell from the president's lips the walls of the convention hall echoed a chorus of feminine hisses. It was no feeble demonstration of protest. The combined hisses sounded as if a valve on a steam engine had broken, according to one correspondent. President Taft stood unmoved during the demonstration of hostilities, for the hisses lasted only a moment, and then smiling as he spoke he answered the unfavorable greeting with this retort: "Now, my dear ladies, you must show yourselves capable of suffrage by exercising that degree of restraint which is necessary in the conduct of government affairs, by not hissing." The women who had made the demonstration were duly rebuked. The suffrage cause was undoubtedly hurt by the demonstration, as the president, regardless of his personal views, is entitled to consideration and respectful attention.

LAST Sunday was observed as Tuberculosis Sunday all over the country. Preachers delivered special sermons impressing on their hearers the importance of home treatment to check and control the ravages of the dread white plague. The movement had the hearty support of President Taft, who, in a letter to

the executive secretary of the National Association for the Study and Prevention of Tuberculosis, said: "I sincerely hope that the movement to make Sunday, April 25th, Tuberculosis Sunday on which ministers are requested to call the attention of their congregations to the importance of the tuberculosis problem and to give such simple information regarding it as may be feasible, may prove to be successful. The amount that can be done in saving human life by a united effort and in respect to such a disease as tuberculosis can hardly be exaggerated." Two corn-belt states, Kansas and Iowa, employ men to travel about and enlighten the people as to tuberculosis, how to avoid it and how to cure it. Other states are watching the experiment with interest and it is highly probable that before many years have passed state lecturers will be numerous. The movement is deserving of commendation, as it is undoubtedly resulting in saving a large number of lives which would otherwise be uselessly sacrificed.

WILLIAM J. BRYAN has returned from an extensive South American trip and has taken it on himself to plead the cause of Porto Rico before the United States congress. He appeared before a committee and urged an appropriation for the extermination of the hook-worm in Porto Rico and for the establishment of a Pan-American college there. Mr. Bryan pictured Porto Rico as a place of beauty and picturesque magnificence, but an island with burdens which the United States should help to relieve. Before leaving Washington for his home in Lincoln, Mr. Bryan walked to the white house and made a social call on President Taft. The two men were closeted for about an hour and appeared to enjoy the company of each other hugely. They denied that they had discussed the tariff bill or any political issue, both asserting that the call was purely a social one.

WITH large shipments of Australian meat already in New York and agents of Argentine farms quietly making the rounds of the principal retailers of that city, relief from the present high prices of native meat products is looked for at no distant date. Choosing the agitation against prevailing prices as his opportunity, the agent of the principal exporting firm of New South Wales closed a trade with a New York retail house several months ago for 500 carcasses. Although transhipped in England the meat arrived in New York in such excellent condition and was of such high quality that the agent at once received another order for 1,500 carcasses. Delivered in New York the Australian meat not only costs the retailer an average of two cents less per pound than native meat, but on account of the manner in which

it is trimmed and treated the element of waste is said to be reduced to a minimum. In the meantime there is a prospect that Argentine exporters will enter the New York field and may even be able to undersell the Australian firms. One or two orders have already been placed, according to one newspaper dispatch. Just to what extent this foreign trade will enter into competition with American it is impossible at present to say, but already

slight relief of high prices has resulted.

THEODORE ROOSEVELT indignantly denies he has announced his candidacy for re-election to the presidency. As a result of the visit of Gifford Pinchot a few days ago an enterprising foreign newspaper correspondent sent out the report that Colonel Roosevelt had told Pinchot that he (Roosevelt) would be a candi-



Put In a Cement Cellar

before this coming fall and winter. Fruit and vegetables in damp earth cellars spoil, sprout and become moldy. The temperature is uneven—many bushels sometimes decay. Cement flooring, or an entire cement cellar (put in before fall), secures a dry condition, unfavorable to growth or decay, is damp-proof, rat-proof and fire-proof. Get a few bags of

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to make your concrete with the next time you are in town. Be sure to get the UNIVERSAL brand of Portland cement because it is the best made and because it makes the best concrete. If you are interested in the use of cement on the farm, ask us to put your name upon our list to receive free copies of the "Farm Cement News." This magazine contains instructions on how to build permanent fire-proof concrete work on the farm. The instructions will enable you to do the work yourself. Write us for this magazine and any other information you may want to know about cement on the farm. Address our nearest office.

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date to succeed Taft at the end of Taft's first term. Nothing could be further from Roosevelt's mind and the moment the canard was called to his attention he indignantly and emphatically denied it. Colonel Roosevelt has stated a number of times that he will give out no interview of any nature dealing with public questions until he returns to the United States. There are any number of politicians and political writers who would like nothing better than to make trouble between Roosevelt and Taft, but it is almost a foregone conclusion that Roosevelt, having been Taft's sponsor, will not so soon go back on the man who has done everything in his power to further the Roosevelt policies in a manner consistent with legal restrictions. The anti-administrationists will have little material to work on so far as Roosevelt is concerned when he returns to this country.

SENATOR ALDRICH, of Rhode Island, has announced that he will not be a candidate for reelection at the expiration of his term, March 4, 1911. Senator Aldrich is recognized as the leader of the senate and one of the best-posted financial authorities in the country. He has occupied a chair in the senate continuously since 1881 and as chairman of the finance committee has come to be recognized as one of the monetary experts of the past quarter century. He is a much-maligned man, due to the important part he has played in administration affairs in the last few years. Factional differences have revolved around him, but he has gone ahead impervious to newspaper criticism, doing what he could to bring about an elastic currency which would be equal to the emergency in all financial crises. Senator Aldrich retires because of ill health. He indignantly denies that he is going out under fire, saying: "Of course some fools will say that I was forced out, but I don't think anyone who knows me will believe it."

THE woman suffragists who held their national convention in Washington last week made a demonstration before congress, several hundred of the enthusiastic suffragists marching to the capitol and fairly deluging the members with petitions for votes for women. Senator La Follette was the first to introduce a batch of petitions and scored a decided hit with the women by saying: "I hope the time will come when this great body of intelligent people will not find it necessary to petition for that which ought to be accorded as a right in a country of equal opportunity." At least one congressman refused to introduce the petitions because of the demonstration the women made against President Taft in the course of which loud hissings were heard. Senator Dolliver, of Iowa, declared, however, that under the constitution it is the duty of the congressmen to present all petitions filed with them. Whether any action will ever be taken on these petitions is extremely doubtful, but they were duly presented and the suffragists were apparently satisfied with this formal action.

OPPONENTS of the Payne-Aldrich tariff bill are jubilant over the outcome of the congressional election in the thirty-second New York district. James S. Havens, a democrat running on the tariff reform platform, defeated George Aldridge, former ruler of the republican organization. The district is nominally republican by about 60,000, while the republican congressman whose death necessitated the special election carried the district at the last election by more than 10,000. Personal issue figured to some extent in the fight, but political writers are contending that the main issue was the tariff. Congressman Eugene Foss, of Massachusetts, a democrat who was recently elected in a rock-ribbed republican stronghold on a platform of opposition to the Payne-Aldrich tariff law, is quoted as saying: "This means that all the senators who voted for the Payne-Aldrich tariff bill have got to go." Whether subsequent events will prove Mr. Foss to be a good prophet remains to be seen, but there are many who contend that the New York incident is more of an exception than a sign of the times. At the same time

it has made considerable political capital during the past week and has been widely discussed.

AT THE age of seventy-five years, Mark Twain died literally of a broken heart. It was the irony of fate that the man who had made millions laugh and forget their troubles should pass away by reason of an overburden of grief. Twain's closing days were marked with many sorrows. His wife, the companion of over a third of a century, died in a foreign country. His best and truest friend, Henry H. Rogers, passed away suddenly, his death being a terrible shock to the aged humorist. His daughter was found dead in a bath tub, having been subject all her life to epileptic fits. The remaining child married a foreigner and left the parental roof to take up her home abroad. Without a blood relative in the country, Mark Twain pined away until he died as truly as it can be said of any man of a broken heart. Twain was without question the greatest humorist that American literature has ever produced and his death is a severe loss, not only to the literary fraternity, but to the millions of American people who have laughed over his books and come to feel a genuine personal love for the writer.

ARCHBISHOP'S TRIBUTE TO FARMER.

Agriculture is the paramount and lasting source of wealth; it is the foundation stone upon which other occupations, leading to wealth and social betterment, are upbuilt; it remains—and the state which relies upon it is ever strong and flourishing—while mines and industries exhaust their gifts, or shift their abodes. And so when the sons and well-wishers of this country meet to counsel as to its aggrandizement and greater prosperity, it is its agricultural interests that must be the primary theme of their discussion and the chief object of their love and care.

Stop farming and mining, and all the wheels of industry are stopped and counters of money changers are void of treasure. Stop farming and we all starve. Farmers, we all are dependent on your toil; we all measure our success and our wealth on the product of your fields. We all must consider your welfare to be our welfare, and for our own sake, for that of the whole nation we will work with you that your calling be held in honor and your toil be felicitous and remunerative.

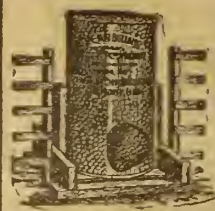
Yes, farmers of America, we look to you, in your remoteness from contagion of crime, in your daily breathing of pure air, your daily contact with the smiles of Nature, to hold strong and invulnerable the spiritual fiber of our common manhood, to guard against disintegration of the family, vitalizing cell of the whole commonwealth; we look to you to save the citizenship and the political weal of the nation from selfish intrigue, from civic debasement, from corruption and ultimate death. The republic of the United States is in the hands of its farming population.

As the farmer himself, I would have him love his farm, be proud of it; I would have him cling to it with tentacles of adamant. As farming is today in America—as it is in Minnesota—I say to the farmer in the words of the old Roman poet—Fortunate, indeed, is he, if only he had full consciousness of his good fortune! As a money-making avocation, what is safer, more remunerative than the farm? The land is continually rising in value; as a mere investment, money put into acres is the safest; land is akin to the treasures of heaven; the moth does not eat it, neither does the rust consume it, nor does the thief run away with it—except this be the mortgage holder, the one enemy of the farmer, against whom, however, a strong will is ever proof.

Ever his own master, never the servant of another, careless of strikes and shut-outs—working when he wills, resting when he wills, surveying with beaming eye his land—his feudal home, which none may stray over without permission from him—this proud independence, the attitude of truest manliness, the fount of truest personal grandeur, make up, immense-

ly so, for all the slight hardships of work and isolation that the farmer at times is tempted to complain of. And were I to speak of the children of the farmer, his chief care, the chief purpose of his toil and forethought—how he should rejoice to see them removed from the lures and pitfalls of the city, growing up around him in honorable toil, in vigor of body and soul, his helpers and co-partners, winning for themselves the assurance in later years of happy homes of their own.—(Archbishop Ireland before the Minnesota Conservation Congress.)

Have Healthy Hogs

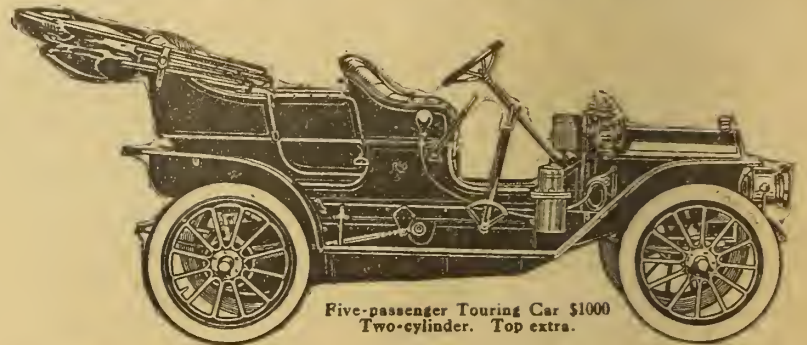


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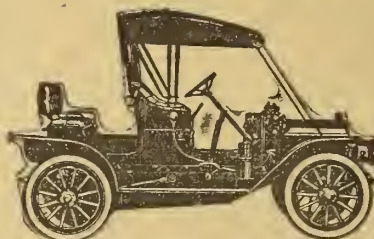
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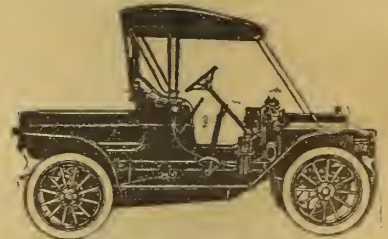
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Whether you use your car for business or pleasure, the one thing you want first of all is to be sure of getting there and back. That is what 25,000 Reos are doing to-day and every day of the year.

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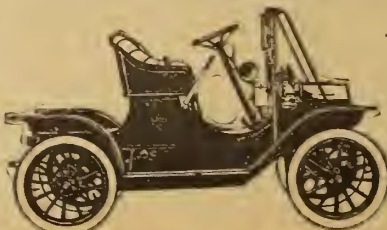
You can change your Reo from the roomy touring car that you see in the picture above to a roadster or delivery car in two or three minutes. It is the handy car for work or pleasure, or both.

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This single cylinder car is the most reliable runabout under \$1000. The ideal car for the busy man who has lots of getting-about to do and wants to keep his costs down.

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HINTS·SUGGESTIONS·DEVICES

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PRUNING THE GRAPE.

In no fruit crop does pruning play so important a part, both as regards the quantity of fruit borne and the cost of producing it, as with the grape. In fact the manner of pruning employed determines to a very large extent the cost of maintaining a vineyard. Certain styles of pruning require a large expenditure of money in the construction of supports or trellises and an equal outlay each season for tying, both early in the season and during the summer. Other systems require less expensive trellises, and little or no expenditure of time or money in spring and summer tying, thus making a very considerable difference in the cost of producing a good

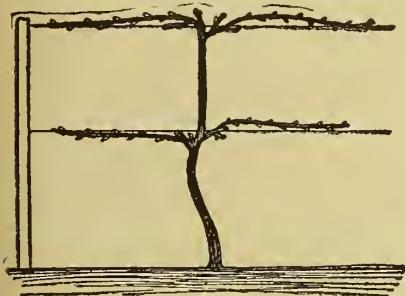


FIG. 1.

quantity of fruit and, since grapes have during the last decade become so cheap, the margin of profit left to the grower over and above the cost of production is very small, even when the most economical systems of training are employed.

In this connection two of the important systems used by eastern grape

growers will be described, namely, the Kniffen system and the high-renewal system. The first named requires no greater outlay for trellises than does the second, but permits of growing the crop with very much less summer tying than is required by the high-renewal system.

Plants pruned on the Kniffen system are shown in figures 1 and 2. It will be noted that the long trunk employed in the Kniffen system carries the fruiting branches far above the ground. This permits the annual growth to fall from the supporting wires in a natural way without the necessity of tying. This constitutes the chief advantage of this system over any other employed in the eastern grape belt. Another slight advantage which the Kniffen system has over the high-renewal or the renewal system is that the fruits are farther from the ground and, experience teaches, are less liable to injury from mildew and rot. They are also somewhat easier to spray, although there is comparatively little difference in this regard between the Kniffen and the high-removal systems.

The Kniffen system, then, consists in the carrying of either one or two main trunks to the height of three to five feet above the ground; sometimes they are carried to the height of six feet or more. If two trunks are employed, one is carried six feet or more above the ground and the other about eighteen or twenty inches lower. It is not desirable to attempt to make the two stories on a single trunk, as the laws of growth induce development at the extremity of the cane and therefore the set of branches which is low-

est upon a common trunk makes little or no development, growth being confined almost entirely to the uppermost set of branches. When two trunks are employed, however, the case is differ-

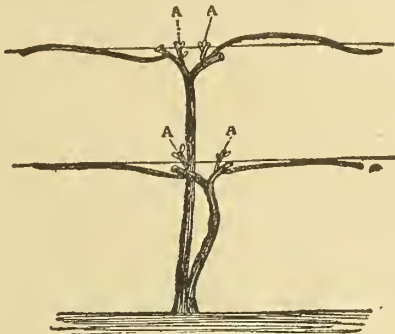


FIG. 2.

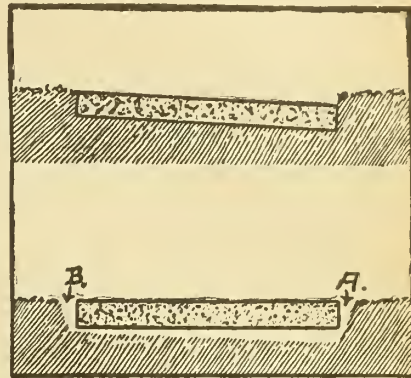
ent and each set of branches becomes, as it were, terminal branches, and a much more satisfactory growth results.

The method of renewal employed in the Kniffen system is practically the same as that in the high-renewal system; that is, the canes which are to bear the fruit during the next season are selected from wood which developed the previous year. These canes are cut back to six or eight buds and are tied to the central wire of the overhead trellis. At the close of the season the bearing cane is removed and a new shoot, one developed from near the head of the trunk, is used to replace it during the succeeding year. The same treatment is employed for the other side of the head; that is, the T-head at the top of the trunk on the Kniffen-trained vine serves the same purpose as the T-head at the top of the trunk of the high-renewal vine. The style of pruning, the construction of the trellis, and the method of renewing the wood are all illustrated in figures 1 and 2.

Repairing Walks.

The writer lately had occasion to repair a short section of stone walk that had settled unevenly as shown in the upper part of the accompanying illustration. In some places the stones were

down on one side over two inches, and in other places the corners had been raised up about the same distance. The stones were pried up with poles as shown in the lower illustration and after being blocked up in line with the poles, small pieces of stone were used for supports and the space below the stone was filled with a rather thin cement, using a mixture composed of one part cement to four parts sand. The job proved satisfactory in every way and a neighbor who had observed the work as it progressed, remarked



that his cement walk was in the same shape and wondered if it could be raised and brought to line. Investigation proved that the walk had been laid in five-foot sections which was perfectly proper, as the sections were still solid, and in only two cases had they been broken. An old saw was secured and run in the joints so as to give the sections plenty of play and the cement walk was soon in as good shape as ever; in fact it was much better, as the foundation for the walk had been made of sand about two inches thick, which caused the walk to settle as it did. The writer has observed numerous cases of bad walks, both cement and stone, and hopes the above will be of assistance to some reader.

Oats and barley are doing remarkably well. The snow and freeze did not harm them in the least.

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Before you come, however, write us, as we do not care to put two cars in any one community at this price. Personally, we would rather have purchasers of these sample machines come to our factory, see how they are made and convince themselves that this is the biggest bargain ever offered in automobiles. **WHATEVER YOU DO, ACT QUICKLY, FOR THESE FEW CARS WILL NOT GO VERY FAR TOWARDS FILLING THE DEMAND, ONCE THEY START GOING.**

Don't Make A Mistake

About the kind of car the "Norwalk" really is, and compare it with the ordinary cheaply constructed, cheap looking machines which are sold at somewhere near this special introductory price.

The "Norwalk" is a finely appointed, beautifully designed and finished, up-to-the-minute automobile; both in appearance and operation the equal and in many cases the superior of well known machines selling at several hundred dollars more than our introductory price.

The "Norwalk" has a motor, developing 25 horse power, (real, not assumed) which is simple, reliable and trouble free, and ample power to carry it over the country with its full load, up hill and down, and do it consistently and satisfactorily.

Its high wheels (36 inches), large tires (3-12 inches), long wheel base (102 inches) and very flexible spring mounting (full elliptic double end scroll in the rear, 3-4 elliptic in front) give it easy riding qualities which cannot be excelled by any car at any price and allows it to skim over rough and uneven country roads without injury to machinery and with the least possible inconvenience to occupants.

Its transmission gear is our own special design, so constructed that it is not liable to injury from improper handling. Gears are in oil and dust tight case and in continual bath of oil, insuring long life and smooth operation.

Has new type irreversible steering gear which will not go back on you and by which the car is easily controlled at high speed on rough roads. When you consider that a large majority of automobile accidents are caused by faulty steering gears, you will appreciate how important is this feature.

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The "Norwalk" is constructed throughout with a view of its meeting the demands of the man who expects good hard service and who has occasion to get away from city pavements and macadamized highways, yet its qualification for speed—45 TO 50 MILES PER HOUR, and its handsome, snappy appearance make it perfectly at home in the most select company.

Disregard the advice of the solicitous "wise ones" long enough to compare the "Norwalk" point for point with anything else you know of on the market at anywhere near our introductory price, paying particular attention to such items as Power, Wheel Base, Size of Wheels, Size of Tires, Mounting, Gear, Speed, Appearance, etc., and you cannot help but agree that here is an opportunity which you cannot afford to ignore if you are interested.

Auto-Bug Company, Norwalk, Ohio.

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

DUTY OF FENCE VIEWERS.

A Subscriber, Shelby, Iowa.—A and B own adjoining lands. A has recently built his part of the partition fence all new and hog tight. After it was completed he asked B to build his half hog tight, but B, who lives in Council Bluffs, paid no attention to the notice, and A then notified the township trustees to view the fence and have one made according to law. B's half is entirely down and all the posts have rotted off. One of the trustees without viewing the fence, asked a lawyer, the county attorney, about it, and he said he would look up the law and advise about it for \$10. The trustee then said there was no township fund for such purpose, and told A if he wanted a fence he must put up the \$10 for attorney fee. (1) Do the trustees have to advise with an attorney in such cases? (2) Has the county attorney a right to charge fees in such cases?

Answer.—(1) Some do, others do not. It is the duty of the trustees to know what to do in such cases without advice from a lawyer. It is a simple matter if they will simply look at the law on pages 811, 812, 813, 814, and 815 of the code and pages 135 and 136 of the session laws of 1909. (2) The county attorney is not required to give advice to township trustees without charge. His duty is in relation to county affairs, and not to township matters.

TREES ON DIVISION LINE.

A Subscriber, Danbury, Iowa.—My neighbor and I own adjoining lands in Woodbury county, Iowa. There is a partition fence between our farms, each one of us keeping half of it in repair. There is a row of maple trees growing on my ground along his part of the partition fence. These trees were planted before either of us bought his farm. My neighbor has started to cut these trees down without saying anything to me about it. Is he entitled to

half of the trees or am I entitled to all of them?

Answer.—In the first place your neighbor has no right to cut down the trees at all without your consent. If the trees are growing on the division line, they belong to both of you in common, each one being entitled to half of them. If they are growing on your side of the line, you are entitled to all of them.

LAND AND WATER CONTRACT.

A Subscriber, Liberal, Kan.—(1) A bought forty acres of land in Texas, from an irrigation company in April, 1905. He received a warranty deed and water right contract, paying part cash and giving two vendor lien notes payable in one year. A paid one of these notes when due, but the other was never presented for payment, as the irrigation company failed, and no water has ever been available for irrigation purposes. When will this note become outlawed in Texas? (2) What steps must A take to clear title to his land? (3) A's wife did not sign the notes, and they were residing on the land when the notes became due. Could the notes have been collected by law, if A had refused payment? (4) A new company has obtained possession of all the unsold lands of the first company through tax sales and foreclosure proceedings, and new ditches must be built for irrigation. The agent of the first company has A's unpaid vendor's lien note, and refuses to surrender it unless A will give him a promise to pay in case A should get water on his land, and it seems that A will have to get water on his land at his own expense. What course should A pursue in the matter?

Answer.—(1) The note will become outlawed in four years after it is due. (2) A will have to bring proceedings in the district court against the old irrigation company that sold him the land joining the new irrigation company as a defendant. He will need a good lawyer, as the suit will be somewhat complicated. (3) If suits had been brought against A on the notes, he could probably have defended against them successfully on the ground of failure or partial failure of consideration, but not on the ground that his wife did not sign them, or because they were living on the land. (4) A should employ a good local lawyer to bring suit against both companies in the district court, to compel a compliance with his contract for the land and

water right, as stated in the answer to the second question.

GROUND OCCUPIED BY ROADS.

A Subscriber, Burlington, Kan.—I sold a farm of 320 acres in Missouri. In the contract of sale there are two printed clauses as follows, viz.: "This farm was sold subject to \$6,000 encumbrance. Deed—Party of the first part agrees to execute and place a good and sufficient warranty deed conveying title in fee simple to the above described premises in escrow, etc. Abstract—To furnish said second party a full and complete abstract of title, brought down to date and certified by a competent abstractor, showing a good and sufficient title to said premises, clear of all incumbrances whatsoever, except as above stated, not later than the 15th day of June, 1909. Second party shall have said abstract examined within ten days after receiving same, and shall then immediately report to first party any defects affecting the title. The first party shall then have a reasonable time in which to correct such defects, and said first party shall have abstract certified by a competent abstractor at the time of final settlement, showing title to be in himself, and the same to be free from all incumbrances except as above." Said contract also contains the following clause, viz.: "Either party is to pay \$2,000 as liquidated damages for non-fulfillment of the contract," etc. The purchaser now has sued for \$640, claiming that the road

on two sides of the farm should be allowed for, and deduction made by the seller, also for the \$2,000 as liquidated damages. My lawyer says I am safe, as the ground occupied by the two roads is properly included in the 320 acres and no deduction should be made on account thereof. What is your opinion?

Answer.—Your lawyer is entirely correct. When a tract of land is sold, the ground occupied by public roads is included in the tract and the buyer is not entitled to any reduction of price on account thereof, because he becomes the owner of such ground in fee simple subject to the easement which the public has to use it for public travel.

WIFE'S SEPARATE PROPERTY.

A Subscriber, Liberal, Kan.—A and B are husband and wife, and reside on land in Kansas which is in B's name, having been purchased partly with B's own money. The proceeds of the farm are all used to improve the place, and to pay expenses. A and B have one daughter. B has a boy by a former husband who helps with the farm work. A has a family of grown children who have never lived with A and B on this land, but have been making their own living elsewhere. A has other land which will go to his heirs when he dies. In case of A's death, will his children

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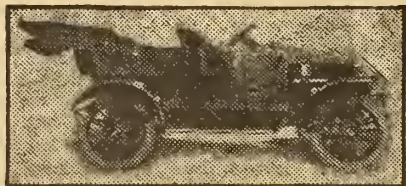
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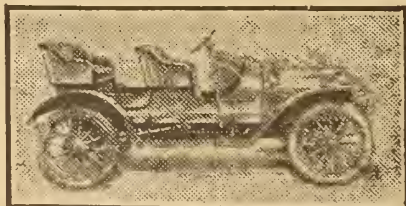
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be entitled to any share of the stock and crops on the land belonging to B, on which A and B reside?

Answer.—A's children will not inherit any property belonging to B, either real or personal when A dies. B is and will be the owner of the crops on her own land, unless she has made some arrangements with her husband by which he acquires an interest in them. The live stock on the place may belong to either A or B; if A should have no interest in it, his heirs will not be entitled to any share of it.

OUTLAWED DEBTS.

Mr. W. H. Glendenning, Mount Ayr, Iowa.—(1) How long does it take for a note to run out and be noncollectible in Iowa? (2) Can a note be renewed by process of law? (3) When does a judgment in Iowa become barred by the statute of limitations?

Answer.—(1) Ten years after it is due. (2) It cannot. After a note is outlawed it can be revived or renewed by an admission in writing signed by the maker of the note of the debt represented by the note, or by a new promise in writing to pay it. (3) Judgment of courts of record are barred by the statute of limitations in twenty years. Judgments of court not of record, are barred in ten years.

DAMAGE BY SURFACE WATER.

A Subscriber, Terrill, Iowa.—A and B own adjoining farms. B is tile draining his farm and his outlet is five rods from the division line, and the water discharged from his drain runs across the line and overflows several acres of A's grain land thirty rods from the line. A creek runs through A's land, and A has offered B \$20 to extend his tile to this creek so that the water will not bother A, but B refuses to do so. (1) Can A compel B to extend his tile to the creek? (2) Can A recover damages for the loss of his grain drowned out by the water from B's tile drain?

Answer.—(1) A cannot compel B to extend his tile drain through A's land to the creek. (2) The law provides that owners of land may drain the same in the general course of natural drainage by constructing open or covered drains, discharging the same into any natural water course, or into any natural depression whereby the water will be carried into some natural water course, and when such drainage is wholly upon the owner's land, he shall not be liable in damages therefor to any person, persons or corporation; therefore, if the place where B discharges his tile drain is a natural depression leading into the creek on A's land, A cannot recover damages, but if it is not such a depression, A can recover damages for the loss of his grain.

STANDING GRADE STALLION.

An Iowa Subscriber.—I have a black Morgan stallion which I wish to stand for service. He has no pedigree and I cannot have him registered as standard or pure bred. What are the requirements of the laws of Iowa in such a case?

Answer.—The owner of a stallion which is not pure or standard bred, and therefore not registered in any stud book, but kept for public service, must advertise the horse by having printed handbills or posters not less than five by seven inches in size, and said bills or posters must have printed thereon immediately preceding or above the name of the stallion, the words, "grade stallion," in type not smaller than one inch in height, said bills or posters to be posted in a conspicuous manner at all places where the stallion is kept for public service.

NATIVE BORN CITIZENS.

A Subscriber, Alden, Iowa.—Suppose a foreigner comes to this country and does not become naturalized, and has children born here, are such children citizens of the United States when they become of age, or do they have to be naturalized to be citizens?

Answer.—The children born in this country are citizens of the United States if they remain here, although their parents are of foreign birth and not naturalized. Native citizens include all persons born within the jurisdiction of the United States, and do not have to be naturalized.

MORTGAGE OF HOMESTEAD.

An Oklahoma Subscriber.—A year ago I loaned a man \$450, and took as security a mortgage on a farm belonging to his wife, which is her homestead. She made final proof on the land as her homestead claim before she was married. She did not go to town when my mortgage was drawn up, but her husband took the mortgage and note home, and they both signed note and mortgage there, and they were sent in to the notary public to put his certificate and seal on the mortgage. There were no wit-

nesses to her signing her name. (1) Could the husband and wife give a binding mortgage on the wife's homestead? (2) Was it necessary for witnesses to sign the mortgage? (3) Was the mortgage properly acknowledged by the notary public? (4) Can the wife hold the property and prevent a foreclosure.

Answer.—(1) The wife and husband by joining together in signing a mortgage, make the mortgage valid and binding against both of them in Oklahoma. (2) No witnesses are necessary to the signature of either one on the mortgage. (3) The mortgage was not properly acknowledged by the notary public, because it is necessary for them to appear personally before the notary to make the acknowledgment, but it is nevertheless good and binding against them, but not against third persons who have no notice. (4) She cannot.

CHANGING SCHOOL DISTRICTS.

A Subscriber, Prophetstown, Ill.—In a certain township there are two adjoining school districts numbered, for instance, 181 and 182. The latter has failed to hold school six months a year for four years, without complaint being made for that period of time. District No. 181 has seven months school. It is proposed by petition to the trustees to have a new district formed by taking all but nine families from district 182, and four sections of land, with its inhabitants, from district 181 for the new district. The school children living on said four sections of land are nearer to the schoolhouse in district 181 than they will be to the schoolhouse in the proposed new district. Can the new district be lawfully formed in such a manner?

Answer.—Generally trustees may at their regular meeting in April change school districts that lie within their townships. First, by dividing or consolidating the same; second, by organizing a new district out of two or more districts; third, by detaching territory from one district and adding it to another. But they can only do so upon a petition of the majority of legal voters of each district affected by the proposed change, or by two-thirds of the legal voters in territory detached from one district and added to another, or by two-thirds of all voters containing not less than ten families in the territory to be made into a new district. And further, if any school district shall for two consecutive years fail to maintain a public school as required by law to do, it is the duty of the trustees to attach the territory of such district to one or more adjoining districts.

THE LAW'S DELAY.

A Subscriber, Hubbard, Iowa.—A sued B about a year ago for wages, and B will not let the case come to trial. Every time it has come up for trial B has made some excuse for continuance and the case has been postponed from time to time ever since. What can A do to force B to trial?

Answer.—A should employ a good local lawyer, and he will probably force the case to trial.

LIABILITY FOR FAMILY EXPENSES.

An Iowa Subscriber.—Five years ago, while living in Illinois, I gave a judgment note for a bill of goods which a storekeeper had against me. I had no property at the time, and afterwards moved to Iowa, and I have no property in my own name now. The note has been sent here for collection. My wife has personal property in her name. Can it be taken to satisfy said note?

Answer.—By the law of Illinois, the expenses of a family are chargeable upon the property of both husband and wife, or of either of them, in favor of creditors therefor, and they may be sued jointly or severally for the same. The law is substantially the same in Iowa. It has been decid-

ed by the courts that the giving of a note by the husband for the amount of such expenses, does not relieve the wife's property from the liability created by this law. The store bill for which you gave the judgment note was doubtless made for expenses of your family, and hence, your wife's property is liable to be taken to pay the debt.

SETTLING AN ESTATE.

A Nebraska Subscriber.—A's mother died in the state of Michigan, leaving her husband and four children. One of these children died since her mother's death, leaving three children. A's mother left no will; her youngest child is eighteen years old. The oldest child wishes his share of the estate at once. The property is all real estate in Michigan. There has never been an administrator appointed for the estate. A has the matter in probate court now. After an administrator is appointed, can A force a sale of the property and get his share without delay, or must he wait until the youngest child is of age?

Answer.—An administrator should be appointed to settle the estate of A's mother without delay. Upon such settlement the estate can be divided, or if that cannot be done, the land will be sold under the order of the court, and the proceeds divided among the parties entitled thereto, no matter whether the youngest child is of age or not. The heirs who are not of age at the time of division, will have to have a guardian appointed by the court to receive their shares.

POLLENIZING APPLES.

We have often been asked if it is advisable to plant red apples and green apples together in the same orchard. Practically, yes; theoretically, no. You can make a red apple darker by having it planted with a dark red apple than by planting it with a light green or yellow apple. So, for Wine-saps, we sometimes recommend the Arkansas Black. It accelerates the dark color. This is a theory we have had under consideration for some time, and have found it is true. Generally, the Arkansas Black is a shy bearer, but in the West, in most irrigated sections, it is a good bearer. If we were planting for dark-colored apples we would prefer dark-colored ones as pollenizers.

Usually 20 degrees below zero will seriously injure the fruit, though when it is well hardened up the wood will stand from 20 to 30 degrees without serious injury. It all depends upon the ripeness of the wood. I have seen 10 below in midwinter kill the peach buds in New York, and again have

seen 20 below which did not hurt the trees at all.

We are often asked if any other fruit than peach will pollinize the peach. Some forms of plum, some varieties of apricot and some varieties of nectarines will. Cherry will not pollinize peach. Some say it will, but we have not been able to determine it experimentally. Most scientists say it will not. Others claim that pollinization takes place between pears and apples, cherries and plums, and cherries and peaches. We have serious doubts, however.—[Washington State College Horticulturist.

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Take no chances. Hundreds of homes are struck by lightning every year and just recently several people were killed by lightning striking telephone wires running into their homes. This "NO RISK" Arrester will attract the strongest bolt of lightning when attracted by miles of telephone wires to your home. Be safe, send for a "NO RISK" LIGHTNING ARRESTER AND TELEPHONE CUT OUT. Easy to install, easy to operate, simply pull the button, and your phone is safe. We have thousands of thankful customers who have installed these arresters. Cheapest insurance you can buy. Protect your family—only costs \$2.00. W. E. ASHBY TELEPHONE CUT OUT CO., Formerly of Chariton, Iowa. 448 Phillips Block, Des Moines, Iowa.

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DAY BY DAY

AGRICOLA

The coming question: "How to be happy, though a city man?"

Once there was a boy named Jack who would not eat any supper. The reason was that he had no supper to eat. This is the reason why the curculios will not eat the plums here this year. And by the way, it looks as if the codling moths would be appleless also. Jack Frost saves us the job of spraying, but he did not save us the fruit.

How about the rural school yard? Are there trees growing in good condition, and is there a nice lawn? Children have an inalienable right to pleasant and healthful surroundings, and in the country nothing but carelessness is the reason they do not have the enjoyment of this right.

Of our dooryard trees the white ash and the sugar maple are in mourning, and this is the first spring such has been the case. The foliage was green and lovely until the cold wave of April blighted it. Some of my neighbors were just ready to plant corn, taking the size of oak leaves as a guarantee that the time had come—now they are glad that they did not risk it.

Ask any farmer here what is the best thing for stunted shoats and unthrifty hogs and you will get but one reply from those who have tried it—tankage. After you have given a runt pig all the swill he wants he will come grunting up for his tankage ration.

The gardener of the Agricola household planted early vegetables April 20th this spring. This was the second planting, however, the first planting proving to be "a tempting of providence." The strawberries seem to have withstood the frost and this is all the fruit that we feel sure of at this writing. I suggested to Mrs. Agricola that we grow garden huckleberries and wonderberries, but the suggestion was received with refined scorn—not sarcastic, but the kind not amenable to argument.

I met a traveling man not long ago and he explained to me why the weather was so warm this spring. Traveling men are, of course, observant and quick to arrive at conclusions. He said it is because the comet is getting pretty close to the earth. And that same afternoon it snowed and the next morning the ground was frozen and it was colder than usual; and the comet! Where, oh, where, was it? Ask of the waves that have Casahuanca in keeping. For at present it is but a photographic or at best telescopic affair.

Some of the insurgent congressmen are certainly fearless. It is related of Dolliver that he once commingled with the most noted pickpockets running at large and never lost a dollar. That was when he hadn't a dollar to lose. I have been in a similar dollarless fix for months at a time when the country was wild and settlers were few and far between.

It is often said that it is possible to have too much of a good thing. Remembering that there are sixteen different species of cutworms that love to prey upon young corn it is easy to conclude that too much of had things is still worse. The Illinois station says cutworms can be checked by drilling a mixture of bran and arsenic in a row between the meadow and the corn field. In the Fresno raisin country they are this spring depositing little piles of this poisoned bran mash near each vine.

I saw some potatoes in the store for sale with the price of \$1 per bushel attached. At the same time potatoes are only ten to fifteen cents per bushel in the large potato-producing localities. But these were seed potatoes for town gardens, sold chiefly by the peck and delivered to the purchasers. But those farmers who refused fifty and sixty cents per bushel last fall and held for higher prices were not the best of prophets.

Plum trees were a mass of blossoms,

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

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EXCELLENT FARMS—200 acres; good buildings; fine laying land; timber; only \$3,800. 160 acres; new modern house; very large barn; tenant house; 40 acres bottom land; school and church at door; only \$4,500. Also 1,050 acres, with 4 sets of buildings, at only \$17 per acre, with timber. For particulars write Lewis Farm Agency, Candor Tioga Co., New York.

267 ACRE FARM—Buildings on same would cost at least six thousand dollars. Rich, black soil up to 3 feet deep, on yellow clay subsoil. Hard to find a more productive and better kept up farmstead. Two miles from village, and on account of owner's age is for sale at \$80 per acre. Possession given Oct. 15, 1910. Andrew Stensteth, New Richmond, Minn.

WANTED—1,000 good farmers to come to Kingsbury County, South Dakota, to buy farms, best in world, for prices we ask; one 250 acre farm, \$4,000 improvements; all under cultivation; 600 acres meandered with this fine farm at \$60 per acre; a snap. Bangs & Puls, Lake Preston, South Dakota.

BARGAIN SALE by owner; three improved farms in Illinois and Iowa. 270 acres, Fulton County, Illinois; 628 acres, Osceola County, Iowa, and 151 acres, Dickinson County, Iowa. For full descriptions and price or each, address T. J. White, Abingdon, Illinois.

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FINE IOWA farm for sale. Half section highly improved; six miles from Sioux City; house, fine barn; good system of water works; good orchard; fine grove; near school, and everything to make it a fine farm. Owner, J. A. Whitaker, Sioux City, Ia.

WANTED—Farms and businesses. Don't pay commissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties free. American Investment Association, Minneapolis, Minn.

WANTED—Good live agents to help us sell Lyman, Stanley and Brule county lands. We have our own teams and automobiles and best of facilities to show our lands. Address, The Scheffer-Grasenger Land Co., Vivian, South Dakota.

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NOTICE TO FARMERS and investors: We are selling the select 160 and 320 acre tracts of farm land within 15 miles of Presho, Lyman county, South Dakota. Only prime land handled. Write or call at office in Presho. Fenton & Gannon.

BRITISH COLUMBIA farm lands, 100,000 acres near Fort George, on Grand Trunk Pacific. Rich soil, ideal climate, small or large blocks, on easy terms. The Mercantile Trust Co., Ltd., Vancouver, British Columbia.

FOR CENTRAL South Dakota lands, write to David T. Jekyll, Highmore, South Dakota. Hyde, Hughes and Sully counties are the best fields for investment in the state today. Correspondence solicited.

FOUR well improved farms for sale, by owner; 320, 480, 640, 800 acres; no better land anywhere. Steam plow and thrashing rig. Fifty head registered Short-horns. C. Sippel, Faulkton, South Dakota.

FOR SALE by owner; 280 acre improved farm adjoining live town. Reasonable terms. Also several other good farms for sale. A. D. Kirschman, De Graff, Minnesota.

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WRITE for my list of deeded land relinquishments and homesteads. Prices reasonable. Ira L. Hazleton, New Underwood, South Dakota.

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FIRST CLASS farm mortgages for sale. Best security on earth. Stanley County Land Co., Incorporated, Cottonwood, South Dakota.

WANTED—Money to loan on South Dakota lands. Lands for sale. Write Quinn Land & Loan Co., Quinn, South Dakota.

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soms, but all our hopes are blasted with the blasting of the blossoms. Some apple blossoms may be late enough to escape, but this is still uncertain. This cold spell was not predicted by either long or short range prophets. The government bulletin said, "Fair and a little warmer." It was the reverse, being foul and much colder.

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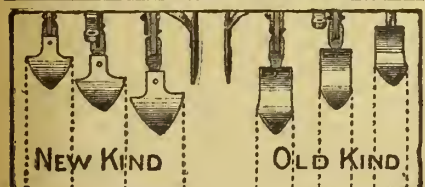


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THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

TENT CATERPILLAR ON APPLE TREES.

A constant reader says he has trouble in his apple orchard, from a worm which seems to spin a web to live in, and if left alone it soon covers the whole tree, eating all the leaves. Our friend describes the work of the tent caterpillar.

As he says, if trees are neglected, when it once gets a foothold, it will defoliate the tree, and incidentally ruin the fruit crop. The habit of this worm, living entirely upon the foliage, indicates the method of fighting him. In fact, he is easily controlled, and is not to be dreaded like the codling moth, which attends wholly to the fruit.

Any arsenical poison, Paris Green or lead arsenate, say about two pounds to forty gallons of water, carefully mixed and sprayed over the trees when the worms are first noticed will destroy them with the utmost certainty. They are hungry fellows and once the dose is well applied, every bite they take they eat death. The best plan is to use the poison in connection with the Bordeaux, for by so doing you control the fungous enemies, destroying both with one spraying—another way of killing two birds with one stone.

Something may be done to hold the tent caterpillar in check by destroying the tents and as many worms as possible when they are first noticed. But this is laborious. The only up-to-date and economical way—because wholesale—is the spraying as indicated above. Handwork will do where there are but one or two trees, or where the trees are very small.

MORE ABOUT SPRAYING.

Great interest in this subject is shown by the fact that fresh inquiries come frequently. We have one now which asks the how, when, and what of spraying for all kinds of fruit trees.

From our point of view, it seems a big undertaking to do all of that in one article. But we can give a resume of some first principles, and the ripest conclusions of experience which will be helpful to beginners. Careful examination of orchards, in fruiting time shows wormy fruit, illshaped, and undeveloped fruit, and trees partly defoliated, and unhealthy.

The object of spraying is to prevent the deposition of eggs, which hatch to worms, to kill the worms after they hatch, to destroy the fungous spores which cause scab, to kill the scale insects which destroy the trees, and to overcome the insects, or fungous germs which destroy the foliage. To do all this, it is necessary to use different materials, and to spray at different times.

And often the preparations used for one kind of fruit trees, it is found best to modify for another kind. Again while one time is best for one insect or disease, it is necessary to make an application at another time for another trouble.

This is so true, that in sure enough fruit regions, spraying is almost a year around business.

Spraying preparations are divided into two classes, fungicides, and insecticides. The common fungicide is the Bordeaux mixture, four pounds of copper sulphate, four pounds of lime, and forty gallons of water. Insecticides are made of some arsenical poison diluted in water. In common use, with the idea of killing two birds with one stone the poison is added to the Bordeaux mixture. Two pounds of Paris green or three pounds of arsenate of lead to the above forty gallons.

Practical men modify this formula, and change it in many ways according to their needs and experience. We may say that it is used stronger for apples and pears than for cherries, plums and peaches.

This covers the ground for fungous diseases, and for the caterpillar, can-

ker worm, curculio, and codling moth. There should be five sprayings per season, the first in early spring before the buds open, and continuing at intervals, until August 15th. For best results you must have expensive machinery, that is strong pressure, and good nozzles. And the materials must be carefully handled. The most important single spraying is that immediately after the bloom falls, for it is then that the codling moth and curculio beetle are most active. But the above will not do for scale insects, which require very different preparations, and different times of application.

We suggest that our inquirer, send to his state experiment station, for bulletins upon the subject. He may get there, free a condensed handbook upon spraying, containing a vast amount of information, with all the formulas, and minute directions as to times, methods, and dangers to avoid.

But it is well to notice that spraying is not an exact science, not an easy way out of our troubles. The theory is perfect, but from various limiting circumstances, results are often disappointing.

And at the same time, in the work of experienced men, spraying is a great success. Commercial orcharding cannot succeed without it, and it has come to stay.

GOOD LETTUCE.

Good, well-grown lettuce, both as a salad and a garnish, is welcomed in every family. And nothing is easier than to have a regular and lasting supply. The method is that of transplanting, for given good soil, and a good variety of lettuce, that with culture, of course, makes all the difference between a short-lived supply and an abundance for all summer. Take the Hansen, or the Grand Rapids, or any other good, loose-head variety, and sow the seed in hotbed in March. Even this is not strictly necessary, as it only secures earliness. It may be, as it usually is, sown rather thickly.

When it gets up to the third and fourth leaf, say two inches high, it is big enough to transplant. Have soil very rich. You may mix with it so much well-rotted manure, that it will be all loose and spongy. Set in rows, sixteen inches apart, so that the wheel hoe may be used. The plants should be given five or six inches in the row. Of course, a wet time is the best for transplanting, but if that fails to come, do the work in the evening, and use plenty of water, then if the sun is very hot the next day contrive some partial shade. But this will not be needed for more than three or four days. If you give good culture you will have a revelation of the possibilities of lettuce, with bunches ten inches in diameter. You may pick this, leaving the roots in the ground, and the plant will proceed at once to clothe itself with a new top, just as good in all respects as the first, and in this way a succession is

secured until fall. This method will give you lettuce such as the professional grows.

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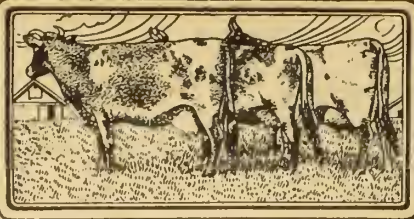
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BUT we have a splendid supply of 1908 crop Silver Mine (white) that tests 95%, and we ship it subject to inspection and test—your money back if it doesn't suit you. Prices for select ear seed, testing 94%, or we take it back; \$4 per bu.; 5 bu. or more at \$3 per bu.; 10 bu. or more at \$2.75 per bu. Shelled seed, same test guaranteed, \$2 per bu. This is fine seed and will not last long. Rush an order. We also offer Bloody Butcher (early) at \$2.50 for ear seed, \$2 for shelled, test 94%. C. Moore & Son, Kellerton, Iowa.

DAIRY



ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

THE RELATION OF THE SILO TO PROFITABLE DAIRYING.

To the Editor of The Homestead:

To the average farmer the only way to make money is to get high prices for his product and then have plenty of that product to sell. Since prices do not always rule high and since such conditions usually find him short on this product, it would seem that high prices do not benefit him much. From the standpoint of the dairyman there is another side which so far has been too little considered, and that is increasing the profits by decreasing the cost of production. This can best be done by the use of the silo.

It must seem reasonable to all readers that there is this other side. There must be some means by which money may be made even when average prices prevail, even when farm products are being sold under the disadvantage of a short, or slow-moving money market. While high prices are desirable, while better cows are necessary, while better methods are imperative, still the question of cheap feed is of paramount importance.

You ask how the silo can cheapen the cost of production and thus lay one path to profitable dairying which is not dependent upon, though aided by high prices. The answer is that through its use you can provide a cheap, succulent, nutritious ration as the basis of your feeding. You can thus lessen the cost by reducing the necessity of feeding so much of the higher priced foods, as bran, oil meal, and other protein feeds.

Further this is ready at all seasons of the year. The cold blasts of winter, whose chill breath diminishes gains in feeding, too often on account of lack of feed on hand, blow in vain. The feed is there, you do not have to go after it. The heat of summer, parching the grass until it shrinks into old mother earth, does not worry you. The milk flow may be maintained just the same. The green, succulent corn is in the silo at your service. The balmy spring which promises well in yielding rank growth of pasture breaks its promise. Why? Because the leaf, the feeder of the root, has not been able to do its part because it is pastured too soon. The silo aids spring to keep its promise by keeping stock off the grass until it has a good start. Autumn, too, can count upon the silo. This help is often needed, but not often given.

So much for words, let us look at the facts, practical facts, if you will. The writer worked on a farm where it seemed a difficult proposition to keep thirty head of stock. It was difficult to make both ends meet, particularly if there were many of the animals that we were trying to get meat on both ends. After erecting a silo, the number of stock was increased to seventy-five in two years and some of the higher-priced feeds were sold. Further, the production per cow was almost doubled. The silo lessened the cost of production or increased the stock per acre. You can put it either way you will. This is one way of making money.

Practice tells us you can double the stock you keep on your farm by the use of a silo, let us see what science says. We find by analysis that over 50 per cent of the corn crop is in the stalk and leaf. This seems to agree with practice. Practice tells us that one acre of ensilage, or corn taken from an acre, cut by a cutter and placed in a silo, will yield enough feed to supply a full-grown steer or a large milk cow forty pounds of silage daily ration for 500 days, or five cows 100 days, or four cows 125 days or four months. Science does not contradict these facts.

If you have fifty acres of corn and it is worth \$20 an acre for the ear alone, that equals \$1,000. That is so

much money made. You leave half that in the field, or, in other words, you leave \$1,000 in the field. But you say you turn the cattle out into the stalks, but even at the best you will leave 40 per cent, or \$800. Is it a simple problem in mathematics and application or is it theory? It is theory to apply it to all your corn fields, but it is not theory, but good practice to apply it to fifteen or twenty acres of your corn. It provides against the contingency of feeding too much high-priced feeds. Through the use of the silo the pail is filled with milk when prices rule high.

You ask what a silo is going to cost you. A 150-ton stave silo, with corn binder and silage cutter will cost you about \$600. If you have a corn binder it will cost you less and if you join hands with your neighbor in buying an ensilage cutter it will bring the total investment still less. Charging rent on land, cost of cultivation, planting, harvesting, interest on money invested, depreciation in silo and machinery, silage in silo will not cost you over \$2 per ton. Its feeding value as compared to average hay prices is \$5 per ton. Evidently this is over 100 per cent interest on money invested. After the first investment the feed can be put in a silo for about sixty cents per ton. According to the farmer's method of figuring, the only outlay would be about ten cents a ton to hire the engine to cut the corn.

This first outlay seems large, yet there are few farmers who are not willing to buy six acres of land at \$100, or twelve acres of land at \$50 if they can see their way to make 50 per cent interest on money invested in five years' time. The silo makes 100 per cent each year in use. An investigation in a certain farm section, of results obtained by men who were using silos and those who were not, showed that the men who were using silos got a gross return of \$52.12 per cow, while those who were not got a gross return of \$38.76. If ten cows are kept, and every farmer should have ten good cows, a difference of \$133.36 a year was made, due to the fact that winter dairying was more commonly practiced. These figures are not taken from specialized dairy districts, but are average farm results. The above gain does not show the full measure of the value of the silo, but is further evidence of the value of the silo to the average farmer.

Usually the question of labor is one that is often advanced as a convincing argument against the use of silo. It cannot be denied that it takes work, and hard work at that, to fill a silo. Three farmers could together fill three 150-ton silos in a week by using what help they have and a little extra help. If thrashing may be done, silo filling takes less help. Then when you get it filled, what have you? One man with feed in a silo can do the work of three men hauling fodder from the field. The silo is labor saving.

All of the advantages of the silo are not given in the above. Space will not permit discussing them all. Some others might be added, and these together with those given would constitute the following:

1. More feed per acre may be obtained by putting the corn in the silo than any other way.
2. This feed is palatable, nutritious, with no waste on the feeding.
3. It is available for milk production in the form of green feed at a time when butter fat or milk sells highest.
4. By supplying a cheap roughage, bulky and succulent, less alfalfa or high-priced protein need be fed. Some grain and alfalfa may thus be sold off the farm.
5. Increases the stock that may be fed on the farm. By this means, through the proper use of manure, the fertility of the soil may be maintained.
6. It is labor saving, doing away with the objectionable features of obtaining feed from the shock when frozen and weather is unfit.
7. Since crop is taken off the field,

it is especially suitable for autumn tillage or for the growing of winter wheat.

8. Corn crop is not a total loss if ear does not develop through unfavorable climatic conditions.

9. The silo may be used in saving first crop of alfalfa.

10. It is worth its own price where cornstalk disease is so fatal to cattle. They are not affected by this disease when fed ensilage.

11. Types of corn may be used which give a greater grain and stalk yield. Corn does not need to be mature, though, generally speaking, the more mature the better the silage.

12. It has practically the advantages for beef as for milk production. All stock eat it with avidity.

13. Per ton capacity the silo is the cheapest building in which to store feed.

The time has come on high-priced land when old methods must give place to new. The silo is not new, as the practice of storing green fodder applied to alfalfa was used by the Romans. It has been tried by a few and proved to be a failure; it has been tried by many and proved a success. Every day dairymen are building silos. Car loads are even now sold

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in Nebraska. The progressive dairyman, the thinking dairyman, even those who do not profess to be dairymen are taking hold of the feed problem. They have to do it. The silo is the solution.

In conclusion, the writer has not attempted to convince you to buy a silo. The facts are presented for your digestion. You have intelligence enough to see the advantage of the silo. Have you faith enough to go ahead and use what other men have proved profitable? There can be no question that the silo bears a very close relation to profitable dairy production, that through its use the checks will be larger and dairymen encouraged.

By putting the silo into use as others have done, and still more are contemplating doing, you can hear the chink of \$20 gold pieces, or the rustle of new bills, as you sell twice the dairy products from the same acreage, at the same time reducing the cost of these products by a large margin. That is what the silo is doing for others, and can do for you.

Nebraska. John Brown.

ARRANGEMENT OF DAIRY BARN.

To the Editor of The Homestead:

The primary consideration in planning a dairy barn is the handling and storing of milk; and the proper carrying-out of this is a matter of the utmost importance, though even here the facilities for storing, preparing and distributing food must by no means be lost sight of. A dairy farm must contain buildings for the dairy proper, which are quite distant and cut off from any other building. The site should be as far from the cow sheds as conveniently can be, and as far as possible from piggery and sewage receptacles.

The lighting must be complete; dark cow stables should never be permitted. Without proper lighting, in addition to its predisposing influences, it is impossible to properly inspect the cows, see that sanitation is properly carried out, or that the cows are clean, especially the udder.

Theoretically, the cow requires as much fresh air as does the horse, but where cows are packed as closely as they usually are, the number of changes of air required per hour to supply this amount of air would make the stable drafty and cold. The low temperature would affect the output of milk.

The value of increased cubic space lies in the fewer number of times the air needs to be changed per hour. In England the live stock board designates that the minimum cubic space shall be not less than 800 cubic feet, while 1,000 cubic feet as a minimum is said, of course, to be much better. The actual standing space should be not less than twenty-two square feet, measuring five and one-half feet in length, not including the manger, and four feet in width. Each cow, for its own comfort and on sanitary grounds, should have its own stall. The placing of two cows in the same stall cannot be regarded as a hygienic procedure. Further, the manger and feed box should be entirely separate from that of its neighbor. The stall fittings should be as far as possible of iron. They are not merely more sanitary, but more easily and thoroughly cleaned and disinfected if required. The floor space and stall fittings are so arranged that all the solid and liquid excreta will be deposited in a channel running at the rear of the stall. This is important in order that body soiling while the animal is in the stable will be reduced to a minimum. This channel may be so constructed that one portion of it contains the solid excreta, while the other portion conducts the liquid manure away. This may be provided by a channel with a four-inch top into a channel four inches in width, into a second channel which drains into the exterior.

The manger should be placed a little above the floor and if possible, be provided at one side with a vessel for water. Cows are frequently insufficiently watered under the impression that they do not need much water. Every drop of the fluid portion of the milk represents a loss of water to the system and requires to be replaced. If possible, water should always be kept within reach. Flooring should be impervious. If possible, cement laid on concrete, and the actual standing space should be level.

The stalls are usually so arranged as to minimize the labor of feeding. The requirements of cattle are large and bulky, and experience shows that a tramway system for the distribution of feed economizes both time and labor. It is easier to feed two rows of cattle with their heads toward a central passageway than with their heads toward the outside walls. Yet with this arrangement, it is equally as difficult to remove the manure. The arrangement of the stalls, therefore, is simply a matter of preference.

Augustus Forrest.

SHALL WE DEHORN COWS?

To the Editor of The Homestead:

Let me quote a bit from a letter that came to me a day or two ago from a young farmer and see what you think of it. He writes:

Just as I was going to put the cows in after dinner we found the yellow heifer, Juno's calf, coming three, down and they were taking turns at hooking her. When we got her up she was able to walk and I guess she will come all right. There were six cows at it all at the same time. I guess it must have been the annual spring tournament. The next morning before I turned them out, I got a neighbor and we took the horns off two of the cows that were in it. I don't know how you feel about it, but every cow in the barn ought to have her horns off.

What do you say about this? Shall we dehorn or not? If ever there was provocation, does it not seem as if it might be in a case like this? Half a dozen cows all venting their spite on one, poor, defenseless heifer! And who can tell whether that victim will ever be worth anything after this or not? She was due to begin the work of the season soon. That terrible ordeal may spoil her for the year and possibly take her life.

I know there are some who say, "If the Almighty had meant that cows should not have horns He would not have made them so." That never struck me as much of an argument against dehorning. We do not let our finger and toe nails grow to be a foot or so long. We put restrictions on men who are inclined to exercise their passions on their fellow men. Society must protect itself against all kinds of unruly actions. I do not believe in being cruel to cattle. I would be the last to advocate anything of that sort, but I believe that young man did right in doing what he did. For the future safety of the little cow, as well as for that of other members of the herd, it seemed to be necessary to take some action that would be radical, and dehorning is as much so as anything I know of.

It is a good time to do such work now before hot weather comes. There is little danger if the work be properly done. By using tar freely on the stubs and winding the head with cloths, the wounds may be healed up in a short time.

That some cows and other animals have a fiercely vindictive disposition there can be no doubt. Why those six cows should have all turned in to hurt the heifer that was the weakest and smallest of them all, unless it were through pure wickedness, I cannot understand. And I am sure that if it had been my own case I would have done just as that young man did?

What would you do?

E. L. Vincent.

"We tire, in time, of all things," said Henry F. Dixey. "I know a Utica farmer who got caught in a barbed wire, and had to stay there for six hours. He told me afterwards that he never got so tired of swearing in his life."



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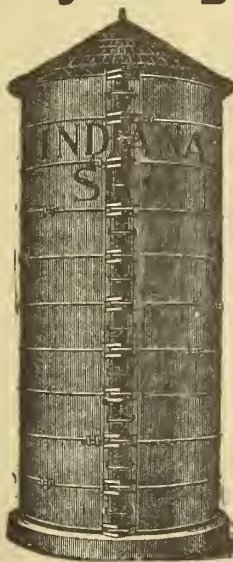
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Auction Sale of Land and Town Lots at CLARKSTON, Gallatin County, Montana, Saturday, May 14, 1910

CLARKSTON is in the extreme lower end of Gallatin Valley, in Gallatin county, Montana, on the main line of the Northern Pacific and the new coast line extension of the C. M. & St. P. Railroads, 38 miles west of Bozeman, the county seat, and 59 miles east of Helena, the capitol of the state, and 68 miles east of Butte, a city of nearly 100,000 people. This is Montana's newest town. It is located at an altitude of 3,800 feet, in the heart of a sheltered cove, and within five miles of the head of the famous and historic Missouri river. Five thousand acres of the richest irrigated land in the world immediately surround this new town. It is the center of 125,000 acres of the best located and most productive non-irrigated bench land in the world.

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FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisement to be found there.

Lyman Co. Lands

ASAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. HAGLER LAND CO., PRESNO, S. DAK.

Iowa Lands For Sale

in Howard county, \$50 to \$90 per acre. Large list on request. Address, SPAULDING & O'DONNELL, Elma, Iowa.

WESTERN CANADA

Senator Dolliver, of Iowa, says: "The stream of emigrants from the United States to Canada will continue."

Senator Dolliver recently paid a visit to Western Canada, and says: "There is a land hunger in the hearts of English speaking people; this will account for the removal of so many Iowa farmers to Canada. Our people are pleased with its government and the excellent administration of law, and they are coming to you in tens of thousands, and they are still coming."

Iowa contributed largely to the Canada their home during 1909. Field crop returns alone during year added to the wealth of the country close to \$170,000,000.00

Grain raising, mixed farming, cattle growing and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts; 160 acres pre-emption at \$5.00 per acre within certain areas. Schools and churches in every settlement, climate unexcelled, soil the richest, wood, water and building lumber plentiful.

For particulars as to location, low settlers' railway rates and descriptive illustrated pamphlet, "Last Best West," and other information, write to Sup't of Immigration, Ottawa, Can., or to Canadian Gov't Act.

W. V. Bennett, Bee Building, Omaha, Nebraska, or E. T. Holmes, 315 Jackson St., St. Paul, Minn.

GARDEN HOMES IN SUNNY COLORADO

where life is worth living and prospects for a better future are unexcelled. Ideal climate, the sun shining 320 days a year. MR. HOME-SEEKER, MR. INVESTOR—your opportunity is now. We own 16,000 acres within five miles of Pueblo (the metropolis of Southern Colorado). Perpetual water right. Land now ready for the plow. Tracts of 10 to 160 acres. For \$20, as first payment, we will hold a tract for 20 days for you to come and look it over. Best land in Colorado. If not just as represented, we will return your money. Act quick. Those who have bought of us would not dispose of their land at greatly increased figures. All kinds of grain, fruit, vegetables, poultry and honey produced here in abundance. Traversed by five railroads and best surfaced wagon roads. Good markets and shipping facilities; good schools and churches at Pueblo. Terms, one-fourth cash, balance on easy terms. Write for illustrated booklet, map and particulars relative to transportation. The TELLER RESERVOIR & IRRIGATION CO. 603 C North Santa Fe Ave., Pueblo, Colo.

IOWA CORN AND ALFALFA FARMS

No better corn farms in the corn belt. No better alfalfa land anywhere. No better winter wheat land anywhere. No waste land; no wet land. No sand; no gravel. Just rich, deep, black soil. The only section in Iowa where corn and alfalfa are both extensively and successfully produced. For sale by

H. L. CRAVEN & CO., ONAWA, IOWA. Ask for new free list.

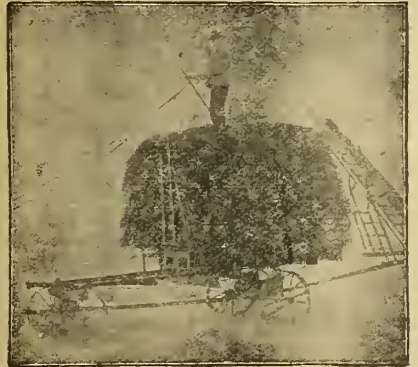
A GOOD BROODER AT ACTUAL HALF PRICE

During this month we will send every purchaser of a **SURE HATCH BONDED INCUBATOR** one of our Brooders at actual Half Price. Every Sure Hatch Incubator is positively guaranteed to give satisfaction, and the guarantee is backed by a \$1,000,000 Surety Bond issued by the Bankers Surety Company of Cleveland, O. One of these bonds is actually placed in the hands of every purchaser of a Sure Hatch Incubator. 60 days free trial. If you want a good brooder for only Half Price, get in your order at once for this offer holds good only a short time.

Sure Hatch Incubator Co.,
Box 16
FREMONT, NEBR.



SELF-LOADING HAY RACK



ONE MAN does it all. Manufacturer of Roller Harrows. Greatest machine in the world for destroying clods and preparing ideal seed bed at one operation. Barbed wire reeler and unreeeler. Steel beam last forever hay racks. Send for circular. **JAS. G. BAILEY, Delavan, Ill.**

Have You Got Johnson's Book?

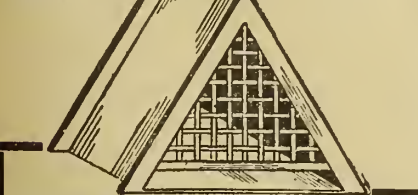
He says to tell you that he has filled it with good things this year. 350 photographs in the book. Every other page a poultry sermon. The best free poultry book ever published.

His 1910 Old Trusty Incubator is covered with asbestos and again covered with handsome sheet metal. 62,000 metal covered incubators last year. Making prices to sell 70,000 this year. **Don't pay two prices for untried incubators or the score of imitations of the Old Trusty.** Write Johnson today and get special direct prices. 40-60-90 days' free trial. A whole year if you want it.

Johnson "the incubator man" has made more incubators than any three men in America. He knows how to make them to batch for the novice or expert. His 10-year guarantee makes you safe. Address for book **M. M. JOHNSON, Clay Center, Neb.**



Rat Proof and Sanitary **No Lice or Mites**



CLUCK'S PRIDE COOP makes chicken raising profitable. Better than any wooden coop you ever saw. Made of galvanized iron, rust and vermin proof. No painting required. Never becomes damp, folds flat when not in use. Ends and bottom removable and thoroughly ventilated. Write today for full particulars and prices. Agents everywhere make \$10 a day and up. **MAURER MFG. CO., Box 22, Freeport, Ill.**

\$7.55 Buys Best 140-Egg Incubator

Double case all over; best copper tank; nursery self-regulator. Best 140-chick brooder. \$1.50. Both ordered together \$11.50. Freight Prepaid. No machines at any price are better. Write for book today or send price and save waiting. Satisfaction guaranteed.

SELLE CITY INCUBATOR CO., Box 52 Racine, Wis.

200 Plants \$1.00

100 of that choice new variety Senator Dunlap and 100 of two other choice varieties, and printed instructions with each order on how to grow them.

J. L. TODD & CO.
R. 3, Indianapolis Ave., Des Moines, Ia.

I HAVE THESE FARMS

IN Northern Iowa, that must be sold at once. 167 acres worth \$75; improved at \$67.50. 160, finely improved, worth \$90, for \$80. An unimproved 160, worth \$65, for \$57.50.

C. X. Nicolson, County Recorder, Algona, Ia.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore be inclosed with inquiries. Address all letters relating to poultry topics to this office.

WHEN HENS HELP OUT.

To the Editor of The Homestead:

Fifty-five and a half dozen of eggs from fifty hens in the month of March is a pretty good record. At current prices, about twenty-five cents a dozen, the eggs would go far toward supporting a fair-sized farmer's family, so far as the things which must be bought at the store are concerned. And this is the record of a young farmer's wife who lives near our home. The beauty of it is that two years ago she had no experience at all with poultry. It was all new to her. For a time she felt very helpless and wondered if she ever could make much of a success of it. Then she began to take courage and ask questions of everybody until she understood what was needed to keep a flock of hens in good health and make them lay.

Hens help out on the farm when they are kept as those hens were, and are, kept. I have visited that farm and know that most of the time feed is where the hens can get it. I know some take the ground that there is such a thing as overdoing that matter. That hens will eat so much, if they can get it, that they will not be healthy and soon break down. It does not seem to work that way with this young wife, and I am inclined to think that it is all right to have certain kinds of food always on hand.

It may be that this is one of the best arguments in favor of the hopper system. But to make that a success I believe a variety of feeds should be used. You watch hens that have access to a hopper and you will see that one hen will pick out, say, wheat, another corn, another perhaps oats. They look for what they like best and that is the secret of successful feeding. If only one kind of feed be in the hopper, it is Hobson's choice, and the result may not be favorable.

Another thing I like about this young woman's way of doing business, she knows what her hens are doing; no guesswork. Every day a record is made of the number of eggs gathered, the number sold and the price obtained. These are essentials. If, coupled to this we have a careful account of the price paid for food, or an estimate of the value of such as is used from home growing, we have a good, business-like method of conducting the farm poultry business.

I happen to know that on that farm good stock is kept. They are mostly White Leghorns, with a sprinkling of White Wyandottes. A couple of years ago a White Wyandotte rooster was procured and his descendants are now doing things worth while on that farm. It would pay us all to take more pains to have good stock in our houses. The reason we do not succeed many times is that we have old, commonplace stock. It is just exactly as cheap to keep only pure bred.

E. L. Vincent.

POINTERS.

—Light Brahma eggs at fifteen for \$1. Read advertisement of Mr. Frank P. Healy, Bedford, Iowa, on page 21.

—Barred Plymouth Rock eggs at \$1 per fifteen and Toulouse geese eggs at twenty-five cents each, from extra choice stock, are advertised for sale by Mrs. James Cockerton, Whiting, Ia. See page 21.

—Mr. E. A. Taylor, of Boone, Iowa, sells Rose Comb Brown Leghorn eggs from a choice flock of good layers. He writes that he has birds in his flock that have won the blue ribbons and if any of our readers would like eggs for hatching they should read his advertisement on page 21.

—The advertisement of Mrs. Henry Queckborner, of Chadwick, Ill., will be found on page 21. This lady is offering Single Comb Brown Leghorn eggs for hatching and at prices that are most reasonable. In a letter ordering a continuance of her advertisement, she says: "I can furnish a good hatch. A neighbor got eggs from me for her incubator and got a 95 per cent hatch. I set some under hens and every egg hatched a beautiful brown chick. That would be 100 per cent. People tell me I advertise them too cheap, considering the stock I have, but I know that farmers' wives have not much spending money, like myself, and I want

them to get good stuff for a little money."

—Silver Wyandotte eggs at \$1.45 for fifteen are advertised for sale by Mr. O. M. Healy, Bedford, Iowa, on page 20.

—Black Langshan and Rhode Island Red eggs at \$1 per thirteen are advertised by Mrs. H. A. Sexsmith, Greenfield, Iowa, on page 21.

—Mr. S. Harr, breeder of White Wyandotte poultry, at Riverside, Iowa, places a new advertisement of eggs for sale on page 20. In this announcement, which will appear but one time, Mr. Harr offers to give absolutely free to everyone who buys two sittings of

eggs one extra sitting from his great laying strain. Don't forget this offer.

—Messrs. Wolfe & Junger, of Tiptonka, Iowa, place an advertisement of their English Red Cap eggs on page 20. These are non-sitters and the eggs are from a pen of prize winners, headed by the highest-scoring cockerel at the Corn-Belt Poultry Show. They also offer eggs from Silver Spangled

PIGEONS.

Homer Pigeons mated birds and breeders from \$1 to \$1.50 per pair. Photo free. Address **J. W. HOPSON, BEDFORD, IOWA.**

Now Is The Time To Get Your Binder Engine

Every up-to-date farmer wants the famous Cushman Binder Engine at harvest time. But don't you wait. Last year we couldn't supply half the demand, because many farmers waited until the last minute. Now's the time to order. We have increased our facilities and greatly improved our wonderful engine. We hope to supply all, but present indications point to a record year for the

CUSHMAN

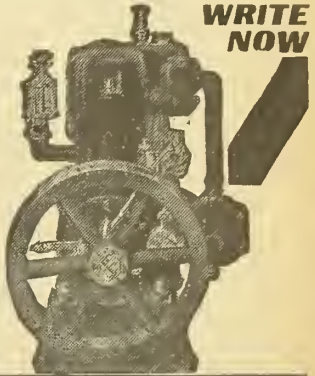
3-H. P. 160-POUND GASOLINE ENGINE

Get this smooth running 4 cycle engine now. It will pay its cost on other work before harvest. It's the lightest, simplest, strongest and most durable 3-H. P. Engine built. Starts easiest and runs smoothest, quietest and steadiest. You can't hear it ten feet away. Easily attached to any binder by the holding brackets we furnish. No blacksmith needed. Superior for all other power work.

SEND NAME FOR BOOK

And All Proved Facts of Cushman Superiority. Don't wait another day but write now. Harvest time is too late to think about your binder engine. Get the Cushman now. Address postal for complete information.

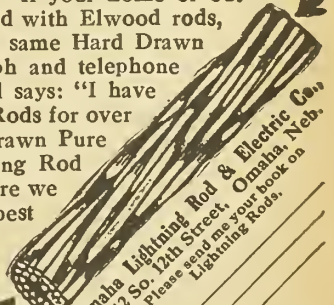
Cushman Motor Works, 2033 N. St., Lincoln, Neb.



Elwood's LIGHTNING RODS
COIL CENTER
HARD DRAWN PURE COPPER

The coil center gives greater surface therefore greater conductivity, consequently affording ample protection. If your home or out-buildings are rodged with Elwood rods, your insurance rates will be less. We use the same Hard Drawn Copper wire as used by electric light, telegraph and telephone companies. None better. Hon. S. M. Elwood says: "I have been engaged in the manufacture of Lightning Rods for over 23 years and I consider my Coil Center Hard Drawn Pure Copper Cable Lightning Rod the best Lightning Rod manufactured." We want dealers in places where we are not represented. Write today for our best dealers' proposition.

OMAHA LIGHTNING ROD & ELECTRIC CO.,
1012 So. 12th Street, OMAHA, NEBRASKA



\$10.00

TO

SOUTH DAKOTA
ROUND TRIP—GOOD 15 DAYS

From all points in Iowa, on the Minneapolis & St. Louis R. R., and from most all points in Iowa on the Iowa Central R. R.

Over 350 miles of the line of the Minneapolis & St. Louis Railroad, through the very best part of the **NEW EMPIRE**, terminating at the newly-opened Cheyenne River and Standing Rock Reservations, are subject to this

SWEEPING RATE REDUCTION

DATES OF SALE		
MAY 3 AND 17	JUNE 7 AND 21	JULY 5 AND 19
AUG. 2 AND 16	SEPT. 6 AND 20	OCT. 4 AND 18

Complete and satisfactory additional information can be obtained from

W. K. ADAMS, District Passenger Agent,
Minneapolis & St. Louis R. R. and

IOWA CENTRAL RY.
DES MOINES, IOWA.

Hamburgs. They will book orders until May 1st.

—Homer pigeons are advertised for sale by Mr. J. W. Hopson, Bedford, Iowa, on page 19.

—Mr. H. Fessenmeyer, Clarinda, Iowa, advertises Single Comb Brown Leghorn eggs at seventy-five cents per sitting of fifteen on page 21.

—Single Comb White Leghorn eggs at \$1 per sitting or \$4 per 100 are advertised for sale by Mr. John C. Miller, Harlan, Iowa, on page 21.

—Extra choice White Wyandotte eggs from one of the very best flocks in the West are advertised for sale by Mr. A. J. Podendorf, Logan, Iowa, on this page.

—Mr. E. A. Taylor, of Boone, Iowa, is advertising Embden geese eggs for sale at twenty cents each. His advertisement appears on page 21. Send him an order and mention The Homestead.

—Mrs. Thomas McManus, of Lenox, Iowa, can supply Homestead readers with Single Comb Buff Orpington eggs. Her flock is headed by a prize-winning cockerel. Her advertisement appears on this page.

—Barred Plymouth Rock eggs from both Thompson and Bradley strains are advertised for sale by Mrs. L. C. Reese, Prescott, Iowa, on page 21. Mrs. Reese owns one of the very best flocks of Barred Plymouth Rocks in the West.

—Before ordering Buff Plymouth Rock eggs for hatching read the advertisement on page 21 of Mrs. J. C. Anderson, of Oskaloosa, Iowa. She is offering good, farm-raised eggs at the rate of \$1 for fifteen, with incubator lots at quite reasonable figures.

—Mr. Edward Dooley, of Selma, Iowa, is offering Single Comb Brown Leghorn eggs from high-scoring hens for sale in his advertisement that appears on page 21 of this issue. He will guarantee satisfaction and tells us that the first order he receives for eggs he will supply one sitting free.

—Mrs. W. S. Kerr, breeder of Barred Plymouth Rocks, at Iowa City, Iowa, writes: "I have for sale two fine Barred Plymouth Rock cockerels and one dozen hens. These are in fine condition and the best of layers. They make a better proposition than buying eggs. I will be pleased to furnish further information to anyone wanting such stock."

—Mr. Geo. W. Livingston, of Monroe, Iowa, breeder of White Wyandottes, announces in his advertisement on this page that for the remainder of the season he will make special prices on eggs for hatching. He has also thirty White Wyandotte hens which he will sell at the rate of \$1 each. Better write quick if you want them, because they cannot last long at that price.

—The Sabot Kennels, of Pella, Iowa, whose advertisement appears on this page, write as follows: "We can furnish eggs from some of the very best Single Comb Rhode Island Reds in the West, at only \$2 per fifteen eggs. Our Reds score from 92 to 94½ by Judge W. S. Russell and are winners of five silver cups and thirty-four ribbons in 1909 and 1910. Parties looking for some of the best will find our stock that kind. Breeding stock is in tip-top condition and eggs are hatching exceptionally well. We also have a very fine lot of nicely-marked Fox Terrier puppies and a few grown Terriers for sale."

—The advertisement of Messrs. Hennessy Bros., of Strawberry Point, Iowa, who breed Cornish Indian Games, will be found on this page. They have eggs for sale from two different pens. The best pen contains birds which made up the first-prize cockerel and first-prize breeding pen at the Iowa State Poultry Show held at Des Moines and the first, second and fourth-prize hens at the Minnesota State Poultry Show. These are all large, typical hens that will weigh from seven to seven and one-half pounds. The prices which are quoted for eggs are very low and orders should be forwarded at once, as the supply is limited.

—Mr. W. S. Gregory, of Keota, Iowa, has White Wyandotte eggs which he is offering for sale in his advertisement on this page of this issue. He guarantees satisfaction and in furnishing copy, writes: "We have the best matings in White Wyandottes that we ever owned. Our yards are headed by male birds direct from the very best breeders in the United States. They are large in size, pure white, good shape and vigorous fellows, scoring up to 94 points. They have for their mates the cream of the pullets that we raised last season, large, white, good-shaped females. Eggs from these matings are proving very strong in fertility and we expect to get some fine stock from our this year's matings. We have decided to spare a few sittings of eggs for hatching and our prices are very reasonable indeed, considering quality. Remember we are not offering you eggs from any Cheap-John stock and we guarantee satisfaction."

How to Get Rid of Mites.

A solution made of the preparation of one part of crude carbolic acid to ten parts of kerosene oil put on with a spray pump is an effective means of getting rid of mites in the poultry house. It is reasonably cheap and a small portion of it will cover a large amount of space. The treatment should be repeated in about ten days in order to catch the second crop of mites. This information, together with a whole lot of other valuable points in the care of poultry, is extracted from the catalog of Mr. J. H. Chandler, breeder of Barred Plymouth Rocks, at Des Moines, Iowa. Mr. Chandler is now selling eggs

for hatching at the prices named in his advertisement which appears on page 21. Considering the fact that his birds descend from the very best strains of the breed, these prices are very low. Orders or requests for the catalog mentioned should be sent to Mr. J. H. Chandler, R. R. 1, Des Moines, Iowa.

Reduced Rates on Brooders.

For the remainder of the season the Sure Hatch Incubator Company, of Fremont, Neb., will sell brooders at half price. An advertisement of this offer will be found on page 19 of this paper. The brooder is a good one and exactly the same as those which have been giving such excellent service. Note the statements in the advertisements and send orders to the Sure Hatch Incubator Company, Fremont, Neb.

A MILLION Incubator Chicks DIE EVERY DAY

We have a HOME remedy that will positively prevent or cure any kind of bowel trouble in young chicks at any age. Send us the names of 5 to 8 of your friends that use incubators, and we will send you this information free, and allow you 25c for sending us the names. This will be worth \$100 to you this summer. Send the names today; the information is free.

Ralsall Remedy Co., Blackwell, Okla.

ORPINGTONS.

ORPINGTONS, S. C. Buff. A fine stock. Farm raised. Eggs 15, \$1.50; 30, \$2.00; 50, \$3.00; 100 \$5. Address, Dan McCarty, Winthrop, Iowa.

Buff Orpington Eggs from prize-winning birds. \$1.50 to \$3 per 15; also orders booked for baby chicks. Mrs. O. A. Mace, Bedford, Ia.

Buff Orpington Eggs from scored pens. Eggs from a fine pen of Houdans. Write me. Mrs. Chas. Gatches, Floyd, Iowa.

ORPINGTONS (Buff). Greatest winter-laying hens in the world. Eggs for sale. Free catalog. Prewitt, R. 5, Onawa, Iowa.

S. C. Buff Orpingtons Eggs for hatching; \$1.50, 15; \$7, 100. Fertile eggs guaranteed. Frank Rafath, Earlville, Iowa.

S. C. Buff Orpingtons Cook strain; eggs for hatching, 15, \$1.50; 30, \$2.50. Address Mrs. Geo. Haas, Shelby, Iowa.

S. C. Buff, Black, White and R. C. White scored cks. Won hundreds of prizes. Eggs, \$1.50 up. Hens with baby chicks. Mating list. Dr. Evans, LeGrand, Ia.

S. C. BUFF ORPINGTONS Good shape, size or color; free range eggs, \$4 per 100; 75c. per 15. Address O. J. Early, Bristow, Ia.

EGGS Buff Orpington, \$3 per 15; state show winners. Cook's best strain and others. Catalog free. Alfalfa Poultry Co., Box 429, Farum, Neb.

S. C. ORPINGTON Eggs for sale; \$1.25 for 15; \$6 per hundred. B. E. Mills, Laverne, Iowa.

S. C. Buff Orpington eggs for sale. Flock headed by prize-winning cockerel. \$1.25 for 15; \$5 per 100. Mrs. Thom. McManus, Lenox, Iowa.

LANGSHANS.

BLACK LANGSHAN EGGS FOR SALE FROM high-scoring birds, 15 for \$1; 100 for \$4.50. Safe delivery and satisfaction guaranteed. MRS. JAS. H. ALLEN, New Sharon, Ia.

My Black Langshans Have won 59 regular and special premiums, including three silver cups during the past show season, and have layed during the coldest weather. Eggs, \$1, 15; \$5, 100. Margaret C. Daly, R. 4, Anamosa, Iowa.

BLACK Langshan cockerels—A few more to sell at \$1 each from high-scoring stock. Eggs in season. Address Mrs. Sarah F. McKee, Sac City, Ia.

BLACK LANGSHAN Eggs for sale from large thrifty birds, farm range, \$1.00 per 15; \$4.00 per 100. Address, J. H. Rayl, Aston, Iowa.

Prize-Winning B. Langshans exclusively, scoring to 94½ at Duquque by Lambert. Eggs, 13, 85c.; 26, \$1.50; 100, \$4.50. W. W. Baskerville, Earlville, Ia.

Black Langshans Bred exclusively; farm range; prize winners. Eggs, \$1 per 15; \$4 per 100. F. S. Thompson, Algona, Iowa.

Black Langshan Eggs For sale; 26 for \$1.50 or \$4 per 100. Choice stock. Joseph Kappes, Jr., Box 42, Ashton, Iowa.

DOGS.

FOX TERRIERS I HAVE for sale a pair of fine Fox Terriers; the male pup is four months old, the female six months old. This is a great pair of Fox Terriers and will make some one happy; will make fine raters and excellent watch dogs. Will sell singly at \$15 each or \$25 for the pair. A bargain. First order here, first order served. Do not delay in ordering if you want one or both.

S. HARR, Riverside, Iowa.

FOX Terriers King of the rat terriers. Puppies and grown stock for sale. Single Comb Reds, winners 5 silver cups and 34 ribbons, 1909-10. Eggs, \$2 per 15. Sabot Kennels, Pella, Iowa.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

SCOTCH Collie pups by imported sires at \$10 to \$25 each. Send for sale list of brood bitches, open and bred. P. L. Savage, St. Charles, Illinois.

FOR SALE Pedigreed, rough-coated Scotch Collie pups, \$6 and \$7. Mrs. A. N. Bonnett, Birmingham, Iowa.

WYANDOTTES.

White Wyandotte Eggs Free FROM MY GREAT LAYING STRAIN

To all Homestead readers who will give me their order for two sets of eggs from my great laying strain White Wyandottes at the regular price \$1.50 per 15 will get one set free from my great laying strain. This offer expires May 15th; otherwise the price will be \$1.50 per 15; \$7.50 per 105. Eggs hatching good; let your orders come at once.

S. HARR, Riverside, Iowa.

White Wyandotte Eggs Balance of season, 75c. for 15; \$4 for 100.

Thirty choice White Wyandotte hens, \$1 each. GEO. W. LIVINGSTON, MONROE, IA.

WHITE WYANDOTTE EGGS FROM stay-white kind. Our birds are absolutely free from brass; good eyes and comb; very large, good shape; best of laying strain; eggs, \$1.50 per 15; \$2.25 per 30; \$6 per 100. Guarantee 75% to hatch or will replace at ½ price. A. J. Podendorf, Logan, Ia.

CHALKY WYANDOTTES WHITE We pay express. Circular free. CEDAR LAWN POULTRY AND STOCK FARM, Fairfield, Neb.

WHITE WYANDOTTE EGGS FROM best matings we ever owned, at \$1.50 per 15 and \$2.75 per 30. Satisfaction guaranteed. W. S. Gregory, Keota, Ia. "Roselawn Farm," Route 2.

WHITE Wyandottes of quality. This proves it. Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank. J. M. Erichson, Slater, Ia.

SILVER WYANDOTTES Eggs, 15 for \$1; 45 for \$2.50; 100 for \$5. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

White Wyandottes Exclusively. Eggs from two pens of high-scoring birds; barnyard flock; price \$1 to \$3, 15. Special prices on larger lots. Mrs. W. F. Prather, R. 6, Atlantic, Ia.

WYANDOTTES White, Buff, Golden, S. Laced eggs, 15, \$1.50; 30, \$2.50; 50, \$3.50; 100, \$6. A. L. Anderson, Indianola, Iowa.

White Wyandottes Exclusively. Eggs from two pens scoring from 92 to 94½ by Todd. Pen 1, \$1.25 per 15; pen 2, \$1 per 15; Flock, 75c per 15. I. J. HAY, HINGO, IOWA.

White Wyandottes Bred from stock scoring to 93½ pts.; fancy and utility combined; mated to Dustin and White Quill males. Eggs 100, \$4; 50, \$2.50. Mrs. C. A. Robinson, Griswold, Iowa.

W. Wyandottes Farm range, prize-winning stock. Eggs, \$1 for 15, \$1.75 for 30. Address E. A. Smith, Route 8, Decorah, Iowa.

White Wyandottes exclusively. Eggs from choice stock, \$4 per 100. Address, W. B. Danforth, Little Cedar, Iowa.

Buff Wyandotte Eggs from choice, selected stock. Incubator orders filled on short notice. Geo. M. Deyoe, Mason City, Iowa.

DUSTON WHITE WYANDOTTE EGGS exclusively. \$1 per 15; \$4 per 100. Blocky stay, white kind. Address, Mrs. F. O. Elbot, Kent, Iowa.

Silver Laced Wyandotte eggs, \$1 per 15; \$4 per 100. Farm range. Satisfaction guaranteed. R. Palmatier & Son, Greene, Iowa.

For Sale S. L. Wyandotte eggs for hatching, \$4 per 100, or 65 cents per 15. Write to CHAS. W. FARIS, IOWA FALLS, IOWA.

Silver Laced Wyandotte eggs for sale, from good birds. Prices reasonable. Write for circulars. S. R. Young, Greenville, Iowa.

BUFF WYANDOTTE CATALOG FREE. Illinois state winners; eggs, \$1.50 and \$3 per 15. J. S. WATSON, VAIL, IOWA.

White Wyandottes Exclusively. Eggs from choice farm range stock, \$1 per 15; \$4 per 100. Mrs. W. O. Harris, R. 6, Muscatine, Iowa.

Buff Wyandotte Eggs from winners at Des Moines, Iowa, State Fair and State Show. A. E. Goodman, Indianola, Iowa.

S. L. Wyandottes exclusively, winners at several S. shows. Eggs for hatching—26, \$1.35; 100, \$3.50. Circ. free. John A. Johnson, R. 2, Pilot Mount, Ia.

WHITE WYANDOTTE, standard bred, good in size, color and shape. Eggs \$1 for 15, \$1.75 for 30. Address Johnson Allen, Earlville, Iowa.

Buff Wyandottes Eggs \$1 per sitting; \$2.50 per 40; \$5 per 100. Address MRS. GRANT DAVIDSON, Corwith, Iowa.

Silver Laced Wyandotte eggs for sale, from choice, pure-bred stock cheap remainder of season. Mrs. J. W. Lowe, Clarksville, Ia.

Silver Laced Wyandotte Eggs from choice farm range stock, \$1 per 15; \$4 per 100. E. O. Dyvig, Stanhope, Iowa.

BUFF WYANDOTTE EGGS Fine shape and solid buff birds scoring from 92 to 94½, \$1.50 per 15. E. K. Morris, Montezuma, Ia.

BABY CHICKS.

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IOWA King and Giant strain eggs from six grand yards of B. P. Rocks. Show stock at reasonable price. Our flocks are headed by first, second, third and fifth prize cks. at Northern Iowa Fancier Show. Send for mating list. Grant Gallaher, Spencer, Ia.

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TURKEYS scoring 95 to 97 at New Hampton, 1909. Eggs, \$4 per 10. Barred Rock eggs, \$2 per 13. Ckl. heading this pen won first at New Hampton, 1910. W. J. DAVID, NEW HAMPTON, IOWA.

S. C. BUFF ORPINGTON and Buff Rocks, also Light Brahmas, scoring 92 to 94, best of matings, all birds are high-scoring. Eggs \$2 for 15, half price after June 1st. Prices quoted on 100 lots. I. E. MINER, BUSSEY, IOWA.


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VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

ABSCESS.

I have a bay horse, three years old, weight 1,100 pounds, that has the distemper very badly, and it broke once under the jaw. It is swollen again back near the throat, and he is stiff and his legs are swollen and sore. As I never saw a case of distemper where the horse's legs swell, I don't know what to do. I worked him about three hours on a plow, but was very careful not to get him warm. Do you think that could be the trouble; if so, what can I do for him?

Distemper (strangles) is due to a specific germ and not to getting hot or cold. Turn him into a box stall, bandage the legs and feed on soft food. Poutice the swollen throat with hot flaxseed meal and have the abscess opened by a veterinarian when it softens. Twice a day give him a half dram of quinine and two ounces of whiskey in water; or better still, have the veterinarian make an examination and decide just what medicine would be best for him to take.

VETERINARY LICENSE.

Can a farmer who has been castrating animals for twenty years be stopped from doing same unless he gets a veterinary license, or can he go ahead and charge for same?

The state veterinarian will on request give you full particulars relative to the veterinary practice law.

STAGGERS.

I have a mare with an ailment that puzzles me. I bought her five years ago and she seemed then to be a little bit stiff in front, but didn't seem to get worse from working or driving. Last spring, however, she took a spell while in the field, would draw her front feet together and back, and her hind feet forward, would sway from side to side, and finally lay down. She has taken these spells several times since, and this spring, more frequently than before. She never refuses to eat and is a good, free worker. She is in foal this year, but wasn't last spring when she first developed these symptoms. She is about eleven years old and her color is white. While in the barn or turned out, she lies down most of the time when not eating. She raised a colt two years ago. I haven't given her any treatment, not knowing what the trouble is.

Indigestion causing the giddiness is the common cause of the symptoms described and usually the trouble proves chronic and incurable. Sometimes the animal will work better in a breast collar. Always such horses should be clipped in spring. Feed lightly of oats, bran and hay. Do not feed corn. Work her lightly every day. Do not feed bulky food at noon.

RHEUMATISM.

I have a black mare, ten years old, that went lame two years ago last fall, first in the left front foot. I had the veterinarian examine her and he treated her for sweeney by injecting medicine in the shoulder. Just about one year later that foot got better and the other front foot got lame. Since then the lameness has changed from one foot to the other, a month or two apart. I had her shod, and a month or six weeks ago the veterinarian gave me some foot oil for her feet. They are hot and hard and have been for about a year. The oil softened them, but did not help the lameness. The doctor says now that it is laminitis and gives it up. The mare will go ahead or back up, step sideways all right, but is sore. Can anything be done to help her? I bought her for a family road mare. She is half Shetland.

Your description suggests rheumatism affecting the navicular bursa of feet. Clip the hair from hoof heads and blister twice a month with cerate of cantharides. This may help, but such cases usually do not respond well to treatment. At time of severe attack give two drams of salicylate of soda three times daily in feed.

WEAK COW—LAMENESS.

(1) We have a good young cow that is in bad shape. She is not sick, and eats heartily when we put her feed up high enough for her to get to it. She can't put her head any lower than her body and seems to be stiff in her joints and looks bad. She has a calf two months old and has had good treatment all winter. She has been in this condition two weeks, but if she has been hurt she does not show it. We

have put liniment on her back and neck, and given her good stock food. Any information will be gladly received. (2) We also have a mare that has not been able to work lately. She is fourteen years old and is a good mare. She seems to be weak in her hind parts. When she walks she has to walk sideways to get down hill. She eats very well. She drags her hind feet and spreads her hind legs apart. If you can tell me what to do for her, would be very glad.

(1) Tuberculosis is to be suspected and no time should be lost in having the cow tested with tuberculin. The disease is incurable and if this cow is found affected the others should also be tested. (2) Apparently the horse has been injured in the region of the loins. Give a dram of fluid extract of nux vomica three times daily in water, after some smaller preliminary doses. In feed twice daily mix a dram of iodid of potash for five consecutive days a week.

BOG SPAVIN.

I have a sorrel colt, two and one-half years old that is broken to drive single. He has a gathering on the back joint of his right leg. This gathering is soft and not noticeable, but it soon comes back. Some call it a bog spavin. Can you give me advice on what to do, and will the treatment keep me from driving him?

The distension of the synovial sac is practically incurable. It may be helped by rubbing three times daily by hand and two or three times a week rubbing in iodine ointment or mercurial ointment. If he is turned out to grass for the summer keep the joint daubed with pine tar. He is too young to be used on road.

RICKETS.

I have a bunch of black fall pigs that weigh from eighty to 100 pounds apiece, and which I fed on corn, wheat and oats all winter. I also gave them milk and shorts sloop and they did well all winter, but this spring they began to break down behind and slide around on their hind legs. They have good appetites and eat and drink well and grow some, but do not get fat. Can you tell me the cause and what to do for them?

Overfeeding and lack of exercise is the cause. Turn the pigs out for free range on grass. Stop feeding corn, oats and wheat and substitute sloop of milk, middlings, bran, oatmeal, (screened) and a little corn meal. Add lime water at rate of one ounce per pint once daily.

QUIDDING FOOD.

I have a sixteen-year-old horse that chews his hay up and then spits it out. He eats his corn all right. I had his teeth dressed and two pulled, about two months ago, but still he does not do much better. I have a neighbor who has a horse about like mine. Could you advise me what is the matter?

The condition of the teeth explains the trouble and it may be incurable, as two teeth have been extracted and perfect mastication is now impossible. After a time he may improve. Better feed grass and mash.

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MORE MONEY
GIVES
MORE SATISFACTION.

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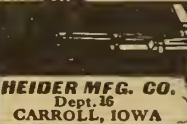
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Clip Your Horses In the Spring



In the spring when your horses are soft and you put them at the hard spring work they sweat a great deal. Their heavy winter coats hold this sweat and it dries out slowly. If left to stand they take cold easily and at night they chill and are liable to all kinds of complaints. If you clip them they dry off fast and there is no question but they stand much less chance of taking cold when dry than if wet. You would not like to stand on a raw spring day or on a chilly spring night with a heavy wet suit on. Neither do your horses. It pays to clip them and blanket, if necessary on cold nights. Your horses dry off much faster, they feel better, rest better, get more good out of their food and do better work. They are better all around. Is it the humane and profitable thing to do. The quickest, least expensive and most satisfactory way to clip is with

The Great Stewart Ball Bearing Clipping Machine

The price, all oom—\$7.50 This machine turns easy, clips fast and will last a lifetime. We guarantee it for 25 years because the gears are all cut from the solid steel bar. They are made file hard. They are enclosed and protected safe from dust and dirt and they run in an oil bath. Friction and wear are practically done away with. It is the only ball-bearing clipping machine. It has 6 feet of high grade flexible shaft and the famous Stewart oil nut tension clipping knife. This is the noted knife that will stay sharp longer and clip more horses than any other clipping knife ever made. Price of the complete machine already to sets only \$7.50. Get one from your dealer or send \$2 and we will ship you a machine C. O. D. for the balance.

Chicago Flexible Shaft Co., 234 Ontario St., Chicago



ALL OF 'EM.

When Georgia courted Ellen Noyes,
They walked through Missouri rye,
He swore to love her night and day
Until they both should die;
But soon he met Miss Rhoda Land,
Also Miss Flora Day,
And Della Ware and Mary Land,
And charming Alice Kay.

'Twas then the villain hatched a
scheme,
For there he met with Maine,
And Maine knew York and knew
Hampshire,
Knew Mexico, knew Spain.
He also knew Miss Sissie Pie,
Likewise Louisiana Anna,
And Mick Egan, the Irishman,
And lovely Allie Bama.

She wore a bran New Jersey
As she saw Colara do,
While Massa Choo sets twenty hens
In Minnie Sota's shoe.
They saw Con Nett cut Teck Zauss
dead,
They let old Ouis Kons in,
And Wau Shing Ton, the Chinaman,
Kick old O'Reagan's shin.

Could Tenny see what Arkan saw
While watching India Anna
Can "sass" there in the lo way,
She'd run off with Mont Hanna,
Virginia and Caroline
Walked out with Neva Day,
Pence Ilvan perched on old Ver Mount
And waved his New brass key.

"Oh, hie! Oh, Ida, Ho!" he cried,
"Why, O'Ming where art thou?"
"Ach! lay who may." Arise soon, eh?
Hear Porter Echo now.
The Caliph ornerly then came in
And tied the Dako tie,
While Philip Een slipped in between
And punched the Canthook eye.
Then Ellen Noyes called Georgia up
And said to him, "You taw,
You're playing fast and loose with me;
Get out! vamoose! Ha! Waugh!"

Why does a yellow hen hold up her
foot so long at a time?

Ans. To rest her leg.

Why do they call it a duck of a bon-
net when it is decorated with a roost-
er feather?

In some states they are agitating
the question of passing laws forbid-
ding the wearing of birds or bird
feathers on the ladies' hats. The next
thing they will have up the question
as to whether or no a rooster is a
bird.

A good story is told on Tom Reed.
Coming up the street one morning he
met a sailor who was about "half seas
over" or more, who inquired, "Shay,
can you tell me where I can get a
sthreet carsh?" Tom looked at him
and said: "Go up to the corner of
Pennsylvania avenue and you will see
two cars, take the first one. I am
quite sure the other one won't be
there."

There is a rumor afloat that a cer-
tain railroad has refused to accept a
corpse for shipment, as they are so
far behind their schedule that they
are afraid they cannot deliver the
goods before the angel Gabriel may
want to toot his trumpet.

Some say that the beautiful March
this year was because the earth was
passing through the tail of a comet.
If this is a fact, it is to be hoped that
the comet will be detailed and the
tail left where the earth can get
through it once or twice each year in
the years to come.

Every thing is early this year.
April flowers came in March, May
flowers are here in April, and June
bugs will be due in three weeks. The
Fourth of July can be looked for most
any time after Memorial Day.

TO MAKE A HEN SIT.

Take a box three feet long and a
foot square and stand it on end, nail
a strip three inches wide around the
upper end of it, put in some clean
straw and a dozen eggs and place the
hen carefully on the nest. Now take
a gunnysack and put a rock weighing
fifty pounds in each end of it, cut a
hole in one side of the middle, spread
it carefully over the hen, running her
head through the hole in the sack,
then let the rocks down on each side
of the box.

Hens handled in this way will re-

main perfectly quiet. They can be
turned end for end each day to
change their position and give the
eggs air and the hen will never "kick"
or break the eggs.

If you have hens that are determin-
ed to sit when you don't want them
to, turn the hen the other side up,
and if she don't lie still put more
rocks in. Hens handled in this man-
ner will lose all desire for maternity,
in a week or two and be perfectly
tame and tractable.

To Raise Wild Geese.

To raise a flock of wild geese cheap,
give some boy a half dollar to go out
to some quiet lake and find a wild
goose nest and bring you the eggs in
his hat. Now borrow a sitting hen
and put the eggs under her. In about
four or five weeks they will hatch
out according to the celerity of the
hen and then turn them into your
neighbor's garden. By fall you will
have a nice lot of wild geese that will
bring \$2 apiece. You will have no
neighbors left, but you can move and
save the rent on the house you have
been living in. I have seen this done
twice, so I know it can be done.

A Stuttering Lover.

Miranda asks: "What shall I do?
I am deeply in love with a young man
who stutters so terribly that he can-
not ask me to marry him, although
I am certain that he desires to do
so?"

This is a sad case, Miranda. I once
knew a young man by the name of
Joshua who loved a maiden by the
name of Sarah. One night he plucked
up courage to ask her, and this is
what he said: "Mis-s-s-s Sa-Sa-Sa- Sa-
a-a-rah-rah rah-ah," and then he start-
ed again and tried to speak, when she
lovingly placed her hand on his mouth
and stopped him, and attempted to
help him out, but as she stuttered
worse if anything than he did she
said: "Oh! Jaw-Jaw- Jaw-Jaw, sh-sh-
sh- shu- waw-waw-waw-waw," and
then they both burst into tears and
fainted. It was a sad and cruel sight.
Her mother found them there and af-
ter they were resuscitated the old wom-
an and the boy's father did the talk-
ing for them and neither of them
could say "No."

Your case is probably better, as
you do not say that you stutter, too,
and it looks to us as though you had
a pudding. Get up as close to him as
you can, for a stuttering man can't
talk when he is chilly. Feel of his
neck with your cheek and see if there
are goosepimples on it. If so heat a
flatiron and smooth them out.

Don't get in a hurry. There is noth-
ing like taking time with a man who
stutters. He may be swelling up, and
sucking wind preparatory to a pro-
posal, but he can't do it quick enough
to catch you unawares now, anyhow,
even if his epiglottis should let loose
at the same time with his mouth and
he will not burst, for the bands that
encompass the puckering strings of
language will stretch a foot before
they will break.

Hang on so he can't get away and
after awhile when he shouts "Mi-Mi-
Mire-Mire -and-and-and-" hang right
on. He will say "day" by the time the
sun begins to brighten the east and
you will have him hooked forever.

You had better suggest the "day"
yourself, and the incidentals of the
wedding, as you will naturally want
the ceremony performed before you
are in the sere and yellow leaf. Be
sure and see the preacher yourself
and have him ask you the usual ques-
tions first, as he can't answer them
he can bow his head and you can
speak for him.

A stuttering man makes an excel-
lent husband. He will usually have
the last word, but as you will be
asleep by that time anyhow it will
make no difference to you. He will
not swear at the cow if she kicks the
pail over as she will "go dry" anyhow
before he could speak.

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Tires on facts and advertise only
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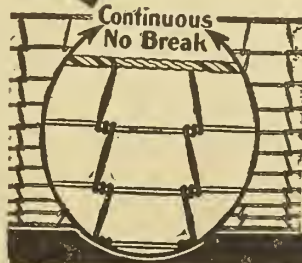
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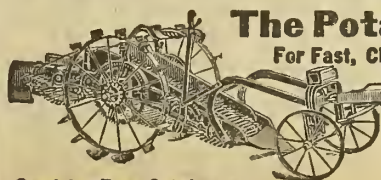
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you can make that will pay you better
in satisfaction and in dollars than to surround your
yard and garden with a neat and attractive

Cyclone Ornamental Fence

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are so strong that they will require no repairs for years.
Our special construction—cabled line wires and corrugated pickets—absolutely
prevents the fabric from becoming unsightly on account of sagging or slipping of joints.
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special high carbon tubular steel. This makes a rigid durable gate that is light on hinges. The hinges
and all fittings are of malleable iron to insure against any need of repairs. By writing to-day for our
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Instead of hastily buying soda crackers that go to waste because broken, soiled or soggy, buy

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Free Booklet Get our free booklet and learn all about it. Get busy before your wife is compelled to do any of those

acres-racking, disposition-destroying spring or summer washings. One man who bought one of our washers is bragging about his wife taking on some of her girlhood beauty and spirit again. Automatic Electric Washer Company, Newton, Iowa



LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

A short time ago a St. Louis newspaper recorded the arrival of an eighteen-year-old girl who had exactly fifty-five cents left after buying her ticket to the city. Her father, who drove her to the depot from the farm, knew the state of her finances, but had offered her neither money nor advice. The girl had no acquaintances and had never been away from home before.

An incident of this kind furnishes a text for a sermon to parents. What can a father be thinking about who permits his young and inexperienced daughter to go alone to a big city in search of employment? What can a mother be thinking of to be a party to a course of procedure which, in nine cases out of ten, means the ruin of her daughter?

It is true that, in many of our large cities, the Young Women's Christian Association frequently has a matron in waiting at the railway depots especially for the purpose of receiving and directing young women, but it is next to impossible for one woman to see everyone and it is the easiest thing in the world for a girl to slip by in the crowd without being noticed. Even supposing she be greeted and directed to the Y. W. C. A. headquarters and helped to employment, how wicked to launch a young girl on the sea of city life with less than a dollar in her pocket.

People who live in the quiet of village and country life have no conception of the pitfalls which beset a strange young girl in the city. If they did they would never permit their daughters to leave them as they do.

Nor is the battle over by any means when employment has been secured. Too often less than a living wage is offered unskilled labor, except in domestic service. And all the while the lure of fine clothes and good food and attractive amusement pulls at the young girl, fluttered by the whirl of the city and hungry for "a good time."

Often her companions live at home and have all their earnings for dress and pleasure, and feeling herself shabby beside them, she becomes covetous. Or, with other girls, homeless like herself, she sleeps in a box of a room and scrimps on food—undermining her health so that she may have more money for clothes and amusement.

If a girl desires to leave the farm and seek her fortune in the city it is the duty of her parents to take measures looking to her safety and happiness. She should not be permitted to leave home until some arrangements have been made to place her in the care of responsible persons who will take oversight of her. She should have some employment assured or have money to pay her board in a respectable place until work has been secured. And—but this provision cannot be made in a week, or a month, or a year—she should be safeguarded by high ideals and the determination to maintain her self-respect.

It is not only when their girls are going or have gone to the city that parents should exercise precautions that all may be well with them. Sometimes the country is as dangerous to a girl as any city could be. The fact is that temptation is everywhere, and that parents cannot be too careful of their daughters. It is not only evil, but the appearance of evil, which should be avoided. And they who pray, "Lead us not into temptation," may well do something toward answering their own prayers—in other words, parents should put a veto upon places and practices which have a tendency to create talk or lead to trouble.

In this connection I think I cannot do better than quote a clipping made some time ago. The writer sacrifices elegance to force, but he voices important truth in such a way that his

thought is likely to make a permanent impression:

The mother who allows a sixteen-year-old daughter to float around the township in a top buggy until 2:00 a. m. with a counterfeit sport of weak jaw and weaker morals merely opens the front door to grief and disgrace. If you don't know what company your girl keeps or what time of night she turns in, your roar when the gossips get busy will sound about as pathetic as the wheeze from a Jew's harp.

The girl who insists on spooning with everybody in the corporate limits ought to be backed into the woodshed and relieved of her overflow of affection with a No. 1 slipper laid carelessly across the hiplets. We had sooner see a girl kiss a blind shoat through a barbed wire fence than have her change partners six nights a week in the front parlor with the lights turned low. It is harder to marry off a girl who has been pawed over by every yap in the community than it is to fatten a sheep on pineapple ice.

There are lots of weak-minded parents who are going up against the judgment day with about as much show as a cross-eyed girl in a beauty show, and their children will rise up and call them blessed with the enthusiasm of a one-legged man at a club dance.

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY.

One never loses by doing good. Why not say and do the good things now?

Try these: "A kind thought, a kind word, a kind deed."

SMILE A LITTLE.

Smile a little, smile a little
As you go along.
Not alone when life is pleasant,
But when things go wrong.
Care delights to see you frowning,
Loves to hear you sigh;
Turn a smiling face upon her,
Quick the dame will fly.

Smile a little, smile a little
All along the road.
Every life must have its burden,
Every heart its load.
Why sit down in gloom and darkness
With your grief to sup?
As you drink fate's bitter tonic,
Smile across the cup.

Smile upon the troubled pilgrim
Whom you pass or meet.
Frowns are thorns and smiles are blossoms,
Oft for weary feet.
Do not make the way seem harder
By a sullen face.
Smile a little, smile a little;
Brighten up the place.

Smile upon your undone labor;
Not for one who grieves
O'er his task, waits wealth and glory;
He who smiles achieves.
Though you meet with loss and sorrow,
In the passing years,
Smile a little, smile a little,
Even through your tears.

THE FARM BOY'S OPPORTUNITY.

A boy fourteen years old, Donald L. Currie, of Tarkio, Mo., was awarded \$170 in premiums at the corn show held in Columbia, Mo. His achievement should serve as a stimulus to all the farmer boys to learn and apply the most improved methods of selecting seed corn, of planting and taking care of the crop, and of maintaining the highest fertility and condition of the soil.

There is no industry in the United States that affords larger opportunities than that of farming, for the application of intelligent and progressive methods. The demand for farm products is increasing more rapidly than the supply. Remunerative prices are assured, and the ambitious farmer boy who is willing to study the methods of improved farming and apply them is assured of a successful career, not only in money making, but also in the patriotic purpose of advancing the material progress of his country.

JUST TO SMILE.

"Ma!" "Yes, precious." "I'm a good boy these days, ain't I?" "Yes, pet—you've been a very good boy since mother talked to you so seriously." "And you trust me now, don't you, ma?" "Yes, darling—implicitly." "Then what do you keep the jam cupboard locked for, nowadays?"

Little Davey was forever asking questions. "You'd better keep still or something will happen to you," his tired mother finally told him one night. "Curiosity once killed a cat, you know." Davey was so impressed with this that he kept silent for three minutes. Then: "Say, mother, what was it the cat wanted to know?"

TO WHITEN FADED GOODS.

Soak the faded cotton goods in buttermilk and let stand for a few nights. Then hang goods on the line in the

sunshine. Do not rinse the buttermilk from goods, but let it dry on in the sunshine. Faded lawns can be made snowy white in this manner and are splendid to use for dresses for the little tots in the family.

THE DISH CLOTH.

Many a woman who is particular about washing out the dish towels, neglects the dish rag, which should be washed out each time after the dishes are done and dried in the sun.

I have seen housekeepers hang the dishpan in a dark corner, wring out the dishrag and hang it wet over the pan. This process, followed day after day, leaves a dish rag in an unsanitary condition. The rag should be boiled out occasionally in water, to which borax has been added.

VEAL POT PIE.

This is a comparatively inexpensive dish even with meat prices soaring skyward, while it is tasty and nourishing as well. Take for its making a pound and a half solid meat from the rump and two pounds from the shoulder or other cheap piece, that has but little fat. Cut in square pieces, dredge with salt, pepper and flour, then brown in the frying pan or shallow iron kettle, using butter or good pork drippings for the browning. When nicely browned, put into a Scotch kettle or saucepan, cover with boiling water, add a little onion for seasoning and, if desired, a little tomato (this is a matter to be decided by individual preference) with salt and pepper to taste, and simmer gently until nearly tender. It will take an hour and a half or two hours. When nearly done add three potatoes peeled and sliced. When the potatoes are about done, thicken the gravy with a little flour and butter rubbed together and add a teaspoonful minced parsley. Turn into a silver baker or earthen casserole, and lay over the top a crust of baking powder biscuit cut into shape and fitted together to form a perfect crust. Set in a hot oven long enough to bake the biscuit a crispy brown.

AMONG OURSELVES.

A rather remarkable thing has happened. While this Home Department aims to be really a home department, a place for men as well as women, in the very nature of things the circle programs are somewhat specially devoted to women more often than not, and though many men sit quietly in the audience from week to week, it is only occasionally that a man shows any desire to speak out in meeting. Well, this week simultaneously two men rose, deliberately but with excess of energy requesting to be heard on behalf of their sex. This delights me. Nothing bothers me more than when our meetings settle to a kind of humdrum—as they sometimes will do in spite of my efforts. I am more than pleased to give these men the floor even though one of them uses his privilege of talking back to the editor. Now you are all eager to hear these gentlemen. I take pleasure in introducing "Farmer John."

I have been an interested reader of the Home Department for years and have never written before, but after reading "Ranchman's" letter to "Undecided," in the April 7th number, I feel I cannot keep silent, as I feel that all true men are insulted. "Ranchman" says: "Quite the usual thing, as the wife begins to fade, the husband begins to cast longing eyes toward every well-groomed woman that crosses his path." I suppose this is his nature and he judges others by himself. Again, "He's built that way and if he doesn't show it he is putting on," thus saying that it is man's nature to look longingly toward every pretty woman he sees. I'll admit that not all men have true hearts, pure minds, but when the wife begins to look old a true man thinks the more of her, because of the knowledge that the care-worn look is there because of the effort to make himself and the children a home that is worthy of the name. When two hearts are united for the journey of life, after they have braved the storms, the joys and the sorrows for fifteen years, they look not so much on the outward beauty as at the beauty of the life of love and devotion that they have led together. I do not mean to say that men do not like to have wife look beautiful, but I do say that if the wife's looks are not what they were fifteen years ago, the love is stronger and she is as beautiful to her husband as of yore. Now, Mr. Ranchman, just take a half hour off and sit down and consider what you said and then see if you believe it, and if you still are of the same mind, just stop and think what manner of man you are. Think of your past life and see if you have kept your mind pure as you should. We have men of base minds and impure hearts, but take them as a whole, they are God's noblest creation and stand up for right and purity.

"Farmer John" speaks like a good man and true. He reminds me of a remark attributed to George Eliot. A friend was speaking to her once of one of her heroines, the wife of the doctor in "Middlemarch," a soulless bundle of selfishness and egotism. George Eliot said she was the most difficult of all the women she had

ever portrayed because it was so next to impossible for her to conceive of the mental make-up of such a creature. It was not that such a one did not, does not, exist, but that their point of view is sometimes difficult to get. "Ranchman" will doubtless speak for himself, but it seems to me he simply voiced one point of view impressed upon him by observation.

And now "Pedagogue," who protests as earnestly as Farmer John, but in different fashion:

The April 7th issue of Among Ourselves contained a letter from "Ranchman" in answer to "Undecided" which contains some good advice, but also some things that I cannot allow to go unchallenged. That the young lady of twenty-six is the proper person to decide the matter in hand, there is no question. Her mother has no more real right to interfere than any other outsider. God says, "Whatsoever I have joined, let not man put asunder." But we say to God, "You don't know, what is best; we want it this way." One great difficulty with many of us is that we don't realize what the above command really means. When any two people of the opposite sex really love each other, God has joined them, and for anyone to say "No" to their union before the law is to defy God. It matters not if their ages be sixteen and sixty, God knows what He is doing when He puts true love in their hearts and he never unites lives in any other way. And turning the subject the other way, those whose lives are united by law and who do not truly love each other, are not truly married at all. Then, again, as to the charge that "Ranchman" makes against men in general—one which the editress seems to concur with—I do not believe that "man is a polygamous creature," except as he has been made so by society. God made man in his image, and anyone who brings such a charge against man is making a terrible charge against God. I haven't any such God as that. God made man to love one woman (and woman to love one man) until "death do them part," and the reason so many men go seeking after other women than their own wife is not because "man is a polygamous creature," but because there never was any true love between the man and his wife. When such is the case, the woman is just as often a "polygamous creature" as the man. In fact, among the well to do and the wealthy, she is more likely to prove herself to be so. No one ever knew a case of true love between a man and his wife where the wife ever became faded and unattractive in the eyes of her lover husband. "Ranchman" says that if any man pretends he would not run after other women, he is "putting on." It seems to me he makes a pretty serious charge against himself, and if he is "built that way" it is not to be wondered at that he thinks everyone else so. Now, the facts of the case are that there are a great many men not "built that way." If "Ranchman" doesn't know it, he has something to learn. If "Undecided" loves the man of forty-five and he loves her, I say they should legalize the marriage which God has performed when he united their hearts. No one—not even they themselves—have any right to interfere. As to the difference in age, she is more likely to respect a man of forty-five than one of twenty-five, and there can be no love where there is not respect. And as for a woman marrying a man younger than she is, no love can be possible on her side in such event, for no woman ever respected a man younger than she. She can admire, but not respect.

It is a great thing to have the courage of one's convictions, but "Pedagogue" must be prepared to give us an infallible recipe by which to test love if we are to accept his theory. How shall "Undecided," or any other woman, know positively that she loves and will continue to love a certain man? How shall a man know that the girl who appeals to him in her fresh young beauty will look sweet and lovely to him when age shall have dimmed her physical charms? Every day sees young couples mating who fondly believe they "really and truly love" each other, but—alas and alas—how often within a year they have grown cold each to the other, or one has grown cold to the other. With regard to the charge that man is "a polygamous creature" it is not a matter of individual opinion at all, but of history. "Pedagogue" is respectfully directed to the study of Sir John Lubbock, an accepted authority, who traces the development of marriage and the family institution all the weary way up through polandry and polygamy to monogamy. I wonder if the circle will accept without demur the statement of our friend that a woman cannot love a man younger than herself. I fancy there will be difference of opinion upon this point and I hope that it will find expression.

I spoke of two men asking for place. There is a third; Mr. T. O.



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That's the feeling of farmers—after they install "SILVER-STRAND" Lightning Rods on their buildings. You buy lightning rods but once in a lifetime. Why not get the best. Here are the reasons:

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—and that of your buildings—is assured for a lifetime, after you install "SILVER-STRAND" rods. Don't take chances on not having this protection. Don't take chances on any other outfit. Be sure to look for

The "SILVER-STRAND"

before you pay for any rod. The silver-colored strand is placed there for your protection in buying—and it insures your protection after rods are on your buildings. "SILVER-STRAND" rods are the only ones good enough to mark so you'll know them. It keeps us responsible to you for everlasting satisfaction.

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"SILVER-STRAND" rods are composed of 32 wire strands, each guaranteed to be over 99% pure copper. You can place your faith in "SILVER-STRAND" rods. They are absolute, positive protection from the most severe lightning storms. Thousands of farmers all over the country are depending on "SILVER-STRAND"—for reasons. Years of success has proved them by far the best protection. Don't risk life and property another day. Send your name in on coupon for sample of rod showing our trade mark, the "SILVER-STRAND."

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of rod as illustrated here. Take the sample to your dealer and tell him you want the rod with the silver strand. If he won't get it for you, we'll see you are supplied. Our Free Book gives reasons why "SILVER-STRAND" is the rod that insures your absolute safety for a lifetime. Mail this coupon now. Address

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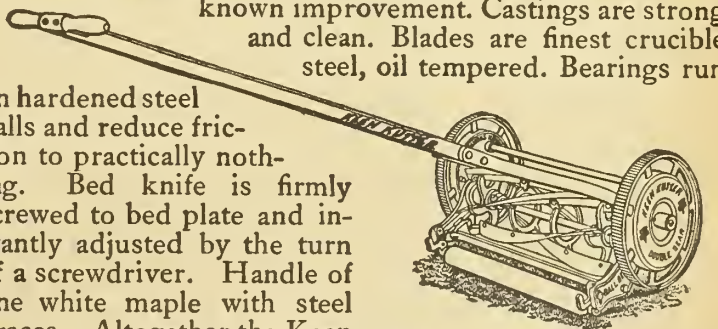
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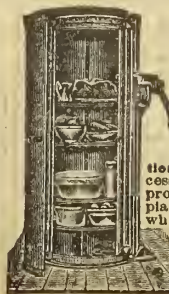
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Buy no other make if he does not handle them but write us. Fort Brand overalls and jackets fit well—are comfortable and wear better than other kinds. Made in all styles—kaki, blue denim—and in all sizes. Every garment inspected. Every garment

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Ask Your Dealer for Fort Brand Garments

They are sold in almost every city or town, but should your dealer not have them in stock, write us and we will see that you are supplied.

Mulroney Mfg. Co.
25 Central Ave., Fort Dodge, Iowa.

Andrew has a message for Miss E. E. G.:

I was much interested and impressed by the question raised by Miss E. E. G. I am also glad she so presented the issue. It is truly a question of much thought and seriousness to young people, and especially so to isolated and young Christian girls. Christianity, however, is not a burden. It is the one and only deal life. But to the question direct. There are two most excellent solutions to this problem. It is evident that a wonderful opportunity for developing Christian leadership has opened to her. Many have only longed for such a glorious opportunity to be presented to them as is now so easily within her grasp. If not in church or Christian organization, then by precept, by Christian examples, and by purity of character. These qualities are always and ever attractive and command a valued premium. Some extended acquaintanceship, of course, is necessary, very necessary, absolutely necessary, too, in order to test out its realness. In your case I would, therefore, but with considerable discretion, mingle among those of my own age, not lowering my standard, but always trying to elevate theirs. The parable of the "tares"—you know the "wheat and tares," they grew up together, but the wheat continued wheat. It would be better, however, for us to go to Heaven, halt, all crippled up, alone and blind, or most any way, rather than not at all. But, say, never allow yourself to be deceived as some seem to be, as those indicated by the "Illinois Bachelor" in the same issue in which he says he has known "Christians away from home to drink, gamble, and do lots of other things." Then he says he believes "it is all right so long as they control themselves." That, or this, is the point exactly; they failed, absolutely failed, in the controlling. They were not Christians. They were like Judas, the betrayer. John, speaking of him, said, "And Judas also stood with them." Lastly, remember that in every temptation resisted by such resistance, the strength of the temptation is gained and actual progress is likened unto one traveling in the dark with a lantern: as you advance, the light advances also.

The thought of leadership suggested by Mr. Andrew is an alluring one to virile youth. If our friend, Miss E. E. G., is capable, if she is possessed of the qualities which make leaders—magnetism, tact, purpose and energy—she may see possibilities in the situation which has heretofore discouraged her. But if not, what? Please somebody else come with some helpful words for an ordinary young girl who wants to follow the Master, but finds herself surrounded by those whose ideals and aims in life are not as hers.

About this time hundreds of chicks are being hatched by mother hens and incubators. If those who are using the latter for the first or second time would write relating their experiences I believe they would be doing a really good work. I hope this hint will have the desired effect. Every member of this circle should feel it a matter of honor to pay dues once a year at least by sending something "for the good of the order." Now and then when an idea of this kind occurs to the presiding officer she expresses it, hoping to help those who would like to write, but "don't know what to write about."

Another thought comes to me. It is that it would be new and should be interesting to have a discussion on "The Children and the Summer Holidays."

DRESSMAKING—No. 74.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Such dresses as this one that are cut with waist and skirt portions in one are much liked for the little girls and are especially in demand at this season when washable materials are being made up. This one can be made either with the square neck or high and it is equally desirable in both styles. It can be trimmed with bands of contrasting material as illustrated or with banding as liked or the edges could be scalloped and embroidered if a very dainty effect were wanted. Chambray is the material illustrated and the bands are of white linen, but little girls wear linen and percales and all sturdy materials of the sort for morning and the same dress would be pretty made from white lawn or Dresden dimity for afternoon occasions. There are accompanying bloomers which dispense with the need of petticoats and mean both comfort for the child and relief for the

washwoman, but these can be used or omitted as occasion demands.

The dress is made with front and back portions and is laid in tucks at the shoulders. It is closed to the left



[6605 Child's Dress with Bloomers, 2, 4 and 6 Years.]

of the front in the fashionable Russian style. Whether the sleeves are long or short they are gathered into bands. The bloomers are circular and fitted by means of darts over the hips so that there is no fullness at the waist band.

The quantity of material required for the medium size (4 years) is 5 yards 24 or 27, 3/4 yards 32 or 3 yards 44 inches wide with 1/4 yard 27 for trimming.

The pattern 6605 is cut in sizes for children of 2, 4 and 6 years of age and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

Such a pretty waist as this one is available at all seasons, but especially so just now when bordered materials and flouncings are to be met at every turn. The bretelles are made with straight edges and consequently are especially well adapted to such materials, but they can, of course, be trimmed in any way that may suit the fancy so that the waist is by no means to be confined to fabric of any one sort. It is, indeed, adapted to all the fashionable thin stuffs that can be tucked



[6606 Round Yoke Waist with Bretelles, 32 to 42 Bust.]

successfully and that means almost everything that would be utilized for such a design. In this instance dotted muslin makes the waist and matching border the bretelles while the yoke is of all-over embroidery and there is banding used on the sleeves, a very lovely effect being obtained with very little labor.

The waist consists of the lining, the front and back portions and the front is tucked, while the backs are plain.

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Lightning proof, fire proof, hail proof. Anyone can put it on, over old shingles or on skeleton frame. Just the thing for barns and all kinds

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This ad. will not appear next week.

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BE patriotic. Learn to play some instrument. It doesn't take long. The bigger the band the better. First write for our big free illustrated band catalog which describes all the different instruments; Cornets, Trombones, Altos, Clarinets, Flutes, Piccolos, Drums, Saxophones, etc.; tells how to form a band and gives our low prices—the lowest in America for good quality instruments. We give free lessons, free trial of any instrument; sell on monthly payments; take old instruments in exchange and guarantee satisfaction. Been selling Band Instruments for forty years. We equip entire bands or sell a single instrument. Write today for our catalog saying what instrument you are interested in.

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Music and Books for all instruments.

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Earn GOOD MONEY Everywhere

Learn to be a musician by our FREE METHOD. You can become an expert with any band or orchestra instrument by practicing in your spare time.

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will cut tall grass, short grass and weeds, and do all the trimming along the fence, walks and drives.

If your dealers do not keep them, let us know and we will send circulars and prices.

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Gives perfect ventilation in your barn. Constant up-draft gives fresh air circulation for your live stock. Rain and snow cannot beat in and spoil your hay and grain.

Birds cannot get in—Saves you money—Costs less than wooden cupola, fits any barn, easily put on; each cupola furnished with gold leaf weather vane.

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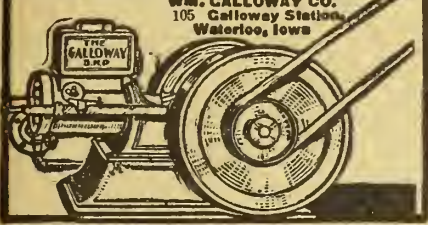
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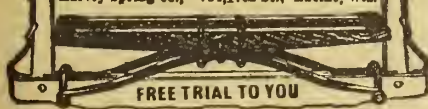
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with 2 yards of embroidery for the bretelles, 1 1/2 yard 18 inches wide for the yoke, 1 1/2 yards of banding to make as illustrated; if one material is used for waist and bretelles 3 3/4 yards 21, 3 1/4 yards 27 or 2 1/4 yards 44 inches wide will be needed.
The pattern 6606 is cut in sizes for a 32, 34, 36, 38, 40 and 42 inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery.)

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

SECOND QUARTER.

Lesson V.—Matt. XII, 1-14.

May 1, 1910.

TWO SABBATH INCIDENTS.

The Sabbath was the "bloody angle" in the contest between the Pharisees and Jesus. They had idolized the day—had converted it into a veritable Juggernaut, whose ponderous weight they were rolling over men's hearts and homes. Their micrology—attention to petty items or indifferences would have been ludicrous if it had not been exercised upon something so sacred.

With this spirit-destroying literalism, Jesus took strongest issue. Of set purpose he broke the tradition, while he yet kept the Sabbath. He wrought seven conspicuous cures upon as many Sabbaths, as if to show the merciful character and uses of the day. But he could not expect to lay his hand thus rudely upon this Pharisaic fetich without raising a din and cry, and being branded as a sacrilegious person.

On this occasion the Pharisaic espionage followed him in hopes that it would discover that he took one step more than the two thousand cubits allowed for a Sabbath-day's journey. It congratulated itself upon a still greater "find." It threw up its hands in well-feigned horror at the dreadful infraction; for were not the disciples reaping and thrashing on the Sabbath? According to the refinements of their traditions, plucking the ripe wheat ears was a kind of harvesting, and rubbing them between the hands and blowing the chaff away was a kind of winnowing. What a sin!

The reply of Jesus is a masterpiece: "David is your hero-king. It is not possible you are ignorant of what he did in an emergency: how, flying from Saul and famishing, he took, not standing corn in the field, like my disciples have, but the shewbread from the golden table before the very presence of the Lord; and that, too, when it had been freshly laid there, and there was none to replace it. David did this! How is it that you find no fault with him?" The law of mercy in this instance supplanted the law of sacrifice.

The scene shifts now from the wheat fields to the synagogue, but the issue remains the same. The cripple is used as a bait to catch Jesus with. Jesus called the unfortunate man to a conspicuous position.

The alternative which he proposed put them to confusion: Which accorded better with the spirit of the Sabbath law—to do good, as he proposed, by setting this unfortunate free from his malady, or to do evil, as they were doing when they entertained a jealous and inhuman spirit; to save life, as he soon would (making the poor man's life worth living), or to kill, as they were now (cherishing the spirit of murder in their hearts)? No wonder they were silent. Jesus was unanswerable.

The Teacher's Lantern.

On the golden thread of the Sabbath the Pharisees strung the empty, worthless beads of their traditions. Of set purpose, and in conspicuous manner, Jesus crushed the baubles, but he never harmed the really precious thread. By his course he even made it more conspicuous and added luster and value to it. By his course, instead of destroying the institution, he made men more willing to be bound by it than ever. One extreme is that of being superstitious to the degree of inhumanity; the other is that of being indulgent to the degree of impiety. Jesus seeks the true con-

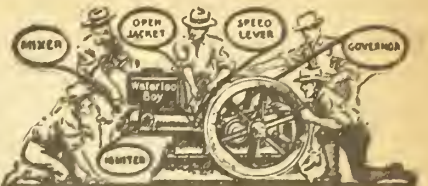
struction. Jesus gives three different replies. Each is suited to convince a different type of mind. He does not give just one categorical answer. In this he shows himself the ideal teacher. "A withered hand." "Stretch forth thy hand!" That is the whole story of human ill and its cure in a nut-shell. The hand is such an important instrument for achievement that the man himself is often called a hand. Loss of hand is almost loss of self. Restoration of the hand is restoration of one's self. The technism of piety reached its completest development under the hair-splitting genius of the Pharisees. They enumerated 365 prohibition days (in the year), 248 commands (equal to the number of bones in the body), 613 precepts (number of letters in the Decalogue). Their dialectical skill was especially busy in framing the casuistry of the Sabbath: determining whether it was right to eat an egg laid on Sabbath, etc. There was a serious side as well as ludicrous in this excessive legalism. Hebrew pilots dropped the helm on approach of Sabbath. Hebrew soldiers allowed themselves to be butchered rather than fight on the Sabbath. Jesus crushed these hollow traditions, showed how intent of the Sabbath was perverted by them. He did not abolish the Sabbath. "Lord of the Sabbath" would have been no honorable title if it were a repealed institution. He was Lord of the day in the sense of ridding it of the barnacles of tradition, elevating it and filling it with life and sanctity.

THE CURRANT WORM.

And now comes an inquiry from a subscriber as to how to handle the currant worm. This insect is widespread and when not fought resolutely it will, in a few years, make currants and gooseberries impossible, for it destroys the bushes. Its spread is nation wide, and perhaps there is no one pest that has done more to discourage small fruit growing, and this in spite of the fact that no insect enemy is more easily destroyed when we get on its trail with the right weapons.

As it lives entirely upon the leaves, any poison recommended for leaf-eating insects will do the work. Paris Green, or London Purple, or any arsenical poison, if they take it in the smallest quantities, is fatal to them. A weak preparation, say one small tablespoonful to twelve quarts of water, and put on with a sprinkling pot, will be successful if the weather is favorable, or the poison may be used dry. Simply mix the same quantity of poison with ten times its bulk of fine flour, and sift on from a cheese-cloth sack. This should be done at evening, when the leaves are damp with dew.

It cannot be advised to use these strong poisons when the fruit is grown and near using time. But if used early in spring, at the time the worm first appears, it will be harmless. But we have another insecticide which is much milder, harmless to people, and still death to the worms. This is the white powdered hellebore. This may be used early or late, and for the above reasons it is especially advised for late use. Sift it on dry with three times its bulk of flour, or use it with water and the spray pump or sprinkler. It is well to put on the poison even before the enemy appears, for if you had them last year you may expect them.



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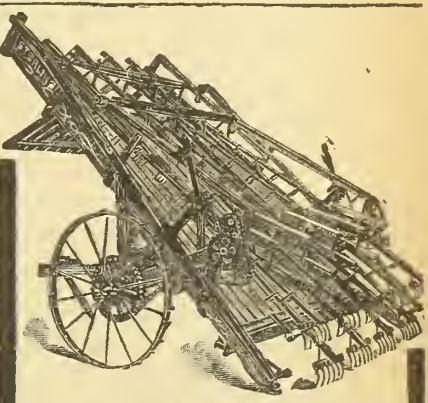
All gasoline engines have some good points, or there would be no sale for them and they would soon be taken off the market. Some engines have more good points than others, that's why some engines are better than others.

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have all the good points that go into any gasoline engine, besides many exclusive, patented features that increase their efficiency and durability; make them marvels of simplicity and wonderfully economical engines to operate. That's why we say the Waterloo Boy is the best engine for farm use. You can buy a Waterloo Boy for less money than you will be asked for engines containing half of the good points we build into our engines. Besides we will send a Waterloo Boy to any responsible farmer and let him try it for thirty days on his farm, doing whatever work he has to do. We will pay the freight both ways and return his money if after a month's use he cannot pick out the good points for himself—if he can't see that it is the one and only engine that will give him complete satisfaction. Better write us today for our catalog and free trial offer.

Waterloo Gasoline Engine Co.,
129 W. Third Ave., Waterloo, Iowa.

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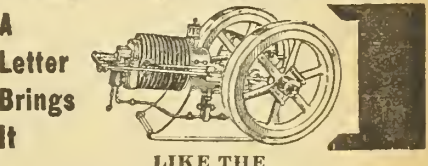
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THE YOUNG FOLKS

LIFE ON THE FARM.

I am a little boy, ten years old, and have never written to your paper before, but I like to read the letters from other children. I live on a farm near Mendon, Ill. We have pigs, chickens, cows and four horses and two mules. I help my father at the barn with the chores, night and morning, as I am the eldest of the children, and in summer I help in the field. I have three sisters and two brothers. One little sister died last month, which was very sad to us all. We live on a farm of eighty acres. We live one mile and three-quarters from school. I am in the sixth grade and have hard lessons. My teacher's name is Mattie McMeakin. Papa rents some land of the neighbors, besides what we live on. We had 1,200 bushels of corn and we got fifty acres of wheat for this season. We have no timber on this farm. We have a large tool shed and corncrib. We put up 105 loads of hay this summer. We went to our grandparents to visit last summer and stayed nearly two weeks. We have one calf about six days old, and four cats.

Aldo H. Loos.

Enjoys Riding His Pony.

I am a little boy, eight years old, living on a 240-acre farm in Webster county, Iowa. I have two sisters, one two years old, and the other ten. We have ten head of horses and three mules. I have a pony which I can ride or drive to Sunday-school, a distance of two and one-half miles. We have twenty-five head of cattle, including eleven milk cows. I enjoy riding my pony after the cows and helping papa milk. We live a mile from school. Yesterday was the last day of school for two or three weeks. I am glad to be at home to help papa. I have a goat, but don't enjoy playing with it very much. Would rather be on the pony. Conrad Boultinghouse.

Loves to Curry His Horse.

I live on a farm of 120 acres that papa bought last fall. The schoolhouse is just across the road from our house. I enjoy living on a farm and helping my father farm. I am only nine years old, but I can do a good deal. One of our horses is named George and I believe I could curry him all day, for I like to so well. He is so kind and gentle. I drive him sometimes. I water all of our horses sometimes. I also like to milk. We have a cow named Jessie and I milked her all last summer. I went down to the barn last week and found a little calf lying beside her. I went and told my papa and he thought I was joking. I am going to begin milking her in a few days.

Hartley Allen.

More Room to Play.

I am a girl, eleven years old, and I live on a farm in Iowa. I have three sisters and one brother. What I like best about farm work is doing chores. I help my brother feed the stock and I have lots of fun on the farm. Sometimes I gather the eggs for mama. I like to take music lessons and go to school better than to work on the farm. I am in the sixth grade. I study the fifth reader, physiology, geography, spelling, grammar, history and arithmetic. We have great fun picking flowers in the woods. I would rather live on a farm than in town because we can have stock and chickens and more room to play.

Lela Myers.

Has a Pet Duck.

I live in town and am in the fourth grade in school. My teacher's name is Miss May. I like her very much. I have a cow named Daisy. I have a brother who is sixteen years old. I am eight years old and will soon be nine. I have a dog named Tip and my brother has one named Cute. I go to the Franklin school. I have a duck named Daisy. I like it very much. The color of it is striped brown. I like my dog and cow, too. I help

work. I carry in wood and water and help wash and wipe the dishes. I have two Teddy bears and three dolls.

Esther Sinclair.

He Likes to Hunt.

I am a farmer's boy, eleven years old, and weigh eighty-two pounds. I am four feet, ten inches tall. I live on a farm of 168 acres. We have a telephone in our house. Our little dog chases the rabbits in our lumber pile. We have six head of horses, eleven head of cows, twenty head of hogs and father sold eight for \$148.84. We also have a timber full of opossums and squirrels, and for fun I like hunting opossums, squirrels and rabbits. We boys chop wood and feed our father's stock in winter and go to school, and in summer we help with the farm work. I like plowing and harrowing best, but I dislike cutting sprouts. I go to Sunday-school every Sunday. I would like best of all to help mama care for the chickens and turkeys if father did not need me to help with farm work.

Harley Crisler.

A Trip to the City.

On Monday morning my sister and I started to Kansas City. We arrived there at four in the afternoon and my uncle met us at the Union station.

The next day was spent in sight-seeing. We took long car rides over the city and saw the most important buildings. We saw the tallest buildings, convention hall, the postoffice, besides many wholesale houses and packing plants. On Wednesday my uncle, who is a government meat packing

plant inspector at Armour's, took me all through that establishment. There I saw the cattle from the time they were killed, through all the different stages of preparation, until the beef is ready to eat, and each part is put to some use. We went through cooling rooms, smokehouses, retaining rooms and many other departments. Later I visited the stockyards and saw pens of cattle, sheep and hogs.

This may not be interesting to city boys, but as I am a farmer I enjoyed it all very much. We came home Saturday after having a very fine time.

Floyd Van Winkle.

He Likes to Milk.

I live on a farm half a mile from town, and go to school in town. I like to play with my playmates. My teacher's name is Miss Shafer and I like her very much. I am in the fifth grade and am nine years old. I like to ride the horses into the field. We milk four cows now. I like to milk because the cows are quiet and gentle. Sometimes I do not get as much milk as my sister does, and sometimes I get more. My pets are two dogs; their names are Shep and Jack. The horse I ride is gray and his name is Dock. We have nine horses, twelve cows and seventy-five pigs. I own one pig, two calves, a cow, a horse and two dogs. My dog Shep will shake hands with you when you tell him to. Jack is only six months old and is very playful. Shep and Jack will play together all the time. Sometimes they get mad at each other and bite. The pond on which I go skating is all water now and so is the creek. The snow is all gone, too, so I cannot coast.

Edward Meneough.

Three Miles to Church.

I am a little girl, ten years old. I have one sister who is eight years old and two brothers, six and four years old. We live on an eighty-acre farm. We have four horses, three cows, two little calves and twenty-five hogs. For our pets we have a

big dog and one cat. We go three-quarters of a mile to the Washington school. Our teacher's name is Miss Thompson. We have about 150 chickens. I gather the eggs and feed the chickens. We have a four-room house. I wash the dishes and help mama all I can. I like to live on a farm. I live seven and one-half miles from Earlham, Iowa, and nine miles from Winterset. I have a grandpa and grandma in town, and I go to visit them in the summer vacation. We are three miles from the nearest church. The name of it is the Worthington church.

Mabel Henkle.

A Newsy Letter.

I am a little girl, ten years old. I go to school nearly every day, and am hardly ever tardy. I missed school yesterday on account of having the German measles. I am in the sixth reader, history, arithmetic, physiology, language, geography and spelling. I have a brother Frank, nineteen years old. I have a dog that can sit up, and a cat named Tommy. In the evening when papa starts to wind the clock Tommy will run for the door, because he knows it is time to go to bed. We have two barns, one large one and one small one. We have two houses, too, one that we live in and the other is a storehouse. The one we live in has six rooms—three bedrooms and a kitchen, dining room and parlor. We have a machine shed, two corncribs, a hog house and a granary. We had company two weeks ago from Saskatchewan, Canada. There are five children in their family. One boy is twelve years old, and three little triplet girls, nine years old, and a little boy, seven years old. The triplets' names are Henrietta, Matilda and Minnie. I had a good time when they were here. I like to read the stories the little girls and boys write. We have a telephone. Our mail is delivered to us by a mail carrier. Our mail box is half a mile from our house. We live five miles north of Glidden, Iowa.

Lottie Juergens.

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Dr. Hess Dip and Disinfectant

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Ashland, Ohio

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Devoe Arsenate of Lead is a perfect spray for all plants and trees; doesn't harm the leaves. Comes in paste form, to dissolve in water; the most satisfactory spray known.

Ask your dealer for our goods; and be sure you get them.

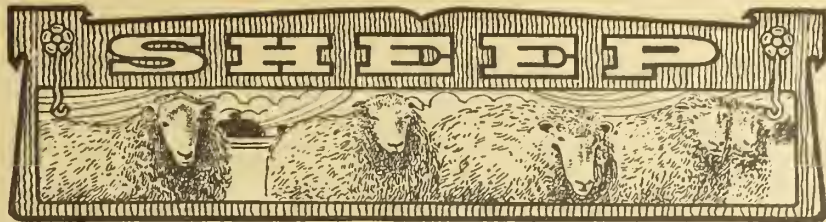
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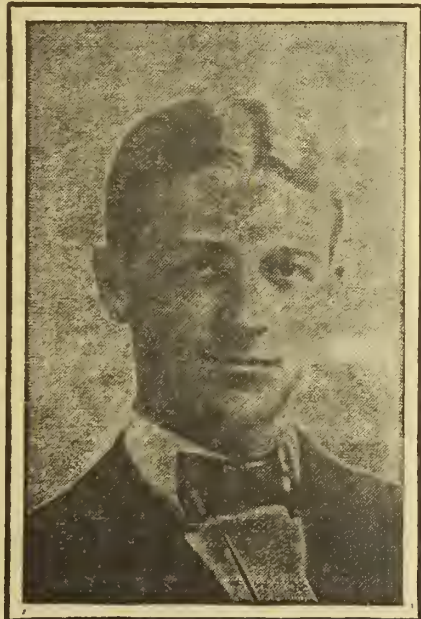
S. B. WASSON,
413 S. Washington Street,
PEORIA, ILLINOIS.



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

L. E. TROEGER, SECRETARY SHROPSHIRE ASSOCIATION.

Another example of a young man from the farm demonstrating that he has the right stuff in him has been brought to public attention in the election of Mr. L. E. Troeger to the office of secretary of the American Shropshire Registry Association, as successor to the late Mortimer Levering. Mr. Troeger was born and reared on an Iowa farm and he traces his ancestry through several generations of farmers. He attended the Iowa Agricultural College and from that institution secured an honor degree. While in college he became a marked man because of his industry and ability, and was selected by his fellow students and by the college faculty as a member of a winning stock-judging team. Upon graduation he became a member of The Homestead staff and for three years acted in the capacity of live stock solicitor and descriptive writer for this paper. A year ago the Iowa Agricultural College were in need of a competent man in the extension de-



L. E. TROEGER.

partment and Mr. Troeger was selected for special work along animal husbandry lines. He gave a year of splendid service to the college and to the farmers of Iowa, and he therefore takes up the work as secretary of the Shropshire association after having had an almost ideal preparation for it.

Mr. Troeger is not only admirably fitted in an educational way for his new work, but he is instinctively a sheep man. He has had an extensive experience in caring for and handling sheep and for a number of years has been regarded as a talented writer on sheep topics. The Homestead extends its congratulations to the Shropshire association on their "find" and it speaks for Mr. Troeger a bright career and for the great breed whose interests he will champion, a most flourishing future.

The office of the Shropshire association will be located in the Pedigree Record Building, at the Union Stock Yards, Chicago, the executive committee at their last meeting having ordered it removed from LaFayette, Ind.

ALFALFA FOR SHEEP PASTURE.

In his book on alfalfa, Mr. Joseph E. Wing deals with the question of bloating as the result of grazing alfalfa. He says there are stages in the growth of alfalfa when it is much more apt to bloat stock than at other times. When the soil is moist and the weather warm and growth rapid, when the soil is very rich also, there is induced a very rank growth that is quite apt to cause

trouble. This danger is worst when the alfalfa is young and tender; increasing safety comes with advancing maturity until, when it is thoroughly in bloom there seems little danger to animals accustomed to its use.

Perhaps there is never absolute safety in pasturing sheep on alfalfa, yet Mr. Wing has for many years pastured valuable sheep all summer on alfalfa, with a run on grass when they wished; and in some years his loss has been so trifling as to be not worth considering, while occasionally it has been necessary to take the sheep off for a time to allow the alfalfa to harden up. In several years' experience with cattle he has lost but one, and that one from permitting it to graze very immature alfalfa that had been mown about two weeks and that owing to the nature of the soil was making a very rank growth.

It is, however, an art to accustom animals to eating alfalfa in pasture. The plants should have made a considerable growth, almost having reached the blooming stage, before being turned on.

The animals, whether sheep, cattle or swine, should not be hungry when turned on. They should be allowed to fill themselves completely with bluegrass, should have a ration of their usual grain, if they are eating grain; then at about 10 o'clock when they do not care to graze longer they should be introduced to the alfalfa pasture. It is well to stay with them until they have eaten what they will of the new forage and laid down to digest it; there will not be much tendency to bloat, but should there be it is well to be on hand. Being turned on at this time of day and stage of repletion, they will not consume very much alfalfa at first, and this is what you desire. Once filled up, the subsequent treatment is charmingly simple; they must never again be taken away from the alfalfa, night or day, rain or shine! The philosophy is that treated thus they never become hungry and thus take in but a little alfalfa forage at a time.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending April 24, 1910:

The week opened and closed with abnormally cold weather; the minimum temperatures on four days were 3 to 12 degrees below the freezing point. The precipitation was decidedly below the normal and nearly all of it was in the form of snow. High winds and northwest gales prevailed on several days and there was a great deficiency of sunshine. In fact, it was one of the most unfavorable weeks, from an agricultural standpoint, we have had in many years. Fruits and garden truck were practically all killed, except possibly some of the latest varieties. Reports vary as to whether or not small grain has been injured by the freezing weather; but there is no doubt but what the vitality of the plants has been seriously taxed, and their growth has been given a setback. The high winds certainly caused a great deal of damage to small grains, especially in the northwestern counties. Corn planting has been discontinued, but fair progress has been made in preparing corn ground and 75 to 80 per cent of the plowing has been done. While pastures and meadows are in good condition, the

grass is growing very slowly and warm, soaking rains are needed at once to insure a normal hay crop.

Geo. M. Chappel,
Station Director.

Saginaw Silos at Cut Prices.

Last season the manufacturers of the Saginaw silo took advantage of low markets and bought an unusually fine lot of lumber. Because of this they are now ready to sell the famous Saginaw silos as cheap as the price asked for the ordinary kind. This offer, however, is good for only thirty days. To take advantage of it our readers must write within that time. No silo has a better reputation than the Saginaw. It is especially constructed for both the dairy and beef breed cattlemen. It is much better at any time to buy a Saginaw than the ordinary cheap silo. Now, as the Saginaw can be bought for the same price as asked for the cheap kind, there is no reason why the farmer who is considering buying one this year should hesitate a minute. The company could only put out a limited number of silos at this price, therefore the offer is good for only thirty days. Write today to the Farmers' Co-operative Produce Co., 200 9th St., Des Moines, Iowa, for their free catalog and price list.

Modern Lighting for Homes.

The question of a light for farm homes has been one of seriousness with farmers who want to be up-to-date in all their surroundings. The problem, however, has been solved by the introduction of gasoline gas lighting machines such as those manufactured by the Termaat & Monahan Company, and advertised on this page of this paper. The company advise us that these machines are sold under an absolute guarantee to be effective, that being cold-process machines there is no danger of fire, and that they are in every way satisfactory. For special prices and descriptions write to the Termaat & Monahan Co., Oshkosh, Wis.

Ask your neighbor to subscribe for The Homestead.

SEED CORN

IS scarce this year and the demand is immense, but we were well supplied and can still furnish a limited amount of the following varieties. Our seed corn is carefully grown, critically hand selected, graded for edge dropping and thoroughly tested so that we know that it will not only grow but prove satisfactory if weather conditions are favorable. The per cents stated show what it has grown in our test, but are of course without guarantee. Test it yourself on arrival and if not satisfactory in every respect return it within ten days and we will refund your money.

	Matures	Our test	Bu. 10 Bu.
Gold King.....	100 days	94%	\$3.00 \$27.50
Iowa Silver Mine.....	95 days	88%	4.00 37.50
Iowa Gold Mine.....	95 days	90%	3.50 32.50
Pride of the North.....	90 days	90%	3.50 32.50
Wisc. White Dent.....	90 days	90%	3.00 27.50
Early Yellow Dent.....	95 days	92%	3.00 27.50
Reid's Yellow Dent.....	110 days	90%	3.50 32.50
Star Leaming.....	100 days	92%	3.00 27.50

Speak quick if you want it as there is an immense demand; the supply will soon be exhausted.
IOWA SEED CO., DES MOINES, IOWA.

SEED CORN THAT WILL GROW

Write for prices. Do this at once, for **SEED CORN** that sprouts better than 90 per cent. Sells very fast this season. Address

J. J. FUNK, Fremont, Neb.

GASOLINE GAS LIGHTING

Machines for sale—less than half price. We have several in stock ready for quick shipment. Cold process—no fire required. Write for description and prices. **TERMAAT & MONAHAN COMPANY, OSHKOSH, WISCONSIN.**

Seed Potatoes

EXTRA choice Minnesota grown Early Ohio, Early Rose, Burbank and Rural New Yorkers at \$1 per bushel; ten bushels or more at 85 cents. These are not cold storage eating stock, but first-class for seed purposes. Speak quick if you want them.

IOWA SEED CO., DES MOINES, IOWA

SEED CORN

IMMEDIATE SHIPMENT. My corn has been tested and retested. Over 90% grows in dirt and is absolutely sure.
Iowa Silver Mine } Selected, \$2.50 per Bushel.
Iowa Gold Mine } Extra Select, \$3.00 per Bushel.

This corn is shelled and graded, ready to plant. I can fill your order at once.
ROME ARMSTRONG, Shenandoah, Iowa.





The New Farm Shoe

After years of costly experiment and work, we have discovered a new process of tanning that successfully withstands the destructive effects of manure and barnyard liquids.

The New Barnyard Shoe

It's the ideal shoe for your use—for any man who works about the stable or barnyard. Costs no more than others not so good; a sufficient and economical reason for wearing it. Try one pair. You'll note such a difference that no other shoe will ever satisfy you. Ammonia-impregnated liquids rot, crack and destroy the ordinary shoes. They cannot harm the Barnyard Shoe. That's why they give greater satisfaction and reduce your shoe bills. That's why they are becoming so popular among Farmers and Stockmen.

If not at your dealer's, send us \$2.75 for trial pair, standard screw fastened, or \$3.25 for Good-year Welts, Black or Tan by prepaid express. One Farmer in each new territory can get a pair of Barnyard Shoes Free. Write for catalog and free proposition.

THE HUISKAMP BROS. CO.
Dept. 10, Keokuk, Iowa.



HAY!
A 2 h.p. engine set on this frame will

pull your hay carrier or stacker. Operated by the man on the load. Takes the place of an extra team and driver. Cut shows hoist equipped with Pull-Back drum for returning empty hay carrier, etc. Furnished with or without trucks, ready to set any size engine on. More than pays for itself in one season. Write today for catalog, price and 30-day free trial offer.

VICTOR SPEER & COMPANY,
26 State Street, Cedar Falls, Iowa.

Horse Breeders

Artificial MARE IMPREGNATORS

We GUARANTEE you can get from 2 to 6 mares in foal from one service of stallion or jack. Increase the profits from your breeding stables by using these Impregnators. No experience necessary to use them successfully. Prices, \$3.00 to \$5.00 each prepaid. Popular SAFETY IMPREGNATING OUTFIT, especially recommended for impregnating so-called barren and irregular breeding mares, \$7.50 prepaid. Write for CATALOGUE which illustrates and describes our Impregnating Devices, Breeding Hobbles, Stallion Bridles, Shields, Supports, Service Books, Etc. **CRITTENDEN & CO., Dept. 48, Cleveland, Ohio.**

Increase Your Profits



PATENT YOUR IDEAS
\$9,500 for one invention. Book, "How to Obtain a Patent" and "What to Invent" sent free. Send rough sketch for free report as to patentability. Patents advertised for sale at our expense in fourteen Manufacturers' Journals. Patent Obtained or Fee Returned. **CHANDLER & CHANDLER, Patent Att'ys** Established 16 Years
949 F. Street, Washington, D. C.

10 Handsome Post Cards illustrating Patriotic Poem, "Sheridan's R. R.," and learn how to get useful School Outfit Free. M. Art Sales Agency, Box 797, Chicago. 6c

When writing to advertisers please mention this paper.

Live Stock Sales

The Rogers Combination Hereford Sale.

It was only a fair crowd that attended the W. N. Rogers combination Hereford sale held in the sale pavilion at South Omaha, Neb., April 13th and 14th, but owing to the very superior quality of the offering, a record average for combination sales was established. Sixty-three head were sold for \$9,450, an average of \$150. The Rogers consignment averaged \$180, and Mr. Curtice's offering made an average of \$150, the others falling a trifle lower. Taken as a whole, it was one of the best offerings made this season and higher prices were warranted in many instances. The top of the sale, \$385, was paid for the grand young bull, Challenger 3d, by Messrs. F. H. & W. H. Hancock, Mapleton, Iowa. These gentlemen are only buyers of the best and in this young bull they have one of much promise. Mr. B. S. Harrington, Ainsworth, Neb., secured the worthy descendant of the great Beau Donald in Beau Donald 127th at the reasonable figure of \$310. Messrs. Needley Bros., McCook, Neb., paid the top price of the females, \$370, getting Monarch's Pet 336922 at that price. Buyers were present from Iowa, Kansas, Colorado, Wyoming and Nebraska. Colonels Callahan and Zaun did the selling in a very satisfactory manner. The list of buyers follows: C. W. Carlson; W. L. Sconce, Pender; H. L. Porter, Denver, Colo.; P. E. McDonald & Son, Craig; G. G. Clements, Ord; A. Hirsch, Formosa, Kan.; F. Ronne, Weeping Water; A. W. Honer, Manley; T. M. Nelson, Craig; James Jamison, Amherst; W. A. Bichel, Glenwood, Iowa; M. I. Masterson, Audubon, Iowa; M. R. Peterson, Stratford, Iowa; R. P. Clark, Brayton, Iowa; Nels Nelson, Newman Grove; M. I. Martin, Raymond; W. W. Ward, Gracie; F. L. Boss, Benton; Peter Moir, Orange City, Iowa; Geo. P. Lewis, Plainview; F. S. King, Schuyler; C. F. Schwanger, Moneta, Iowa; Loup River Ranch, Loup City; F. B. James, Thedford; D. Gross, Avoca, Iowa; W. H. Mayne, Harlan, Iowa; C. F. Dunham, Walnut, Iowa; Fred Munsell, Bunkelman; O. E. Green, Genoa; J. A. Delfelder, Wolton, Wyo.; John Goddard, Harlan, Iowa.

Trumans' Shire Mare Sale.

The sale of imported Shire mares held by Trumans' Pioneer Stud Farm, of Bushnell, Ill., on April 20th, was very successful. It was a grand lot of mares that the veteran judge of horseflesh, Mr. J. H. Truman, selected for this sale. No high prices were paid, but the sale was even and every buyer secured value received for his money. Mr. Russell Childress, of Charleston, Ill., secured the top of the sale in the beautiful mare, Beaumont Blackbird II, at \$1,200. Mr. G. M. McCray, of Fithian, Ill., bought several of the good ones. The sale was conducted in the straightforward Truman manner of doing business which has always characterized their sales. Col. Carey M. Jones did a hard day's work and much credit is due him for the success of the sale. Thirty-two head were sold for \$20,495, an average of \$640. Following is a list of the buyers: W. A. Wiegand, Biggsville; Russell Childress, Charleston; C. C. Williams, Bushnell; W. C. Boswick, Mt. Sterling, Ohio; A. C. Wear, Plymouth; Wm. Stoggs, Avon; Benj. Chroth, Chestnut; J. C. Bates, Charleston; G. M. McCray, Fithian; D. C. Payne, Mt. Pulaski; Fred Dunham, Wapello, Iowa; William Miller, Blandinsville; Martin Swift, Washington; Henry Kepper, Sanborn; Grant Bros., Ohio; H. W. Wilson, Washington Court House, Ohio.

The Sioux City Hereford Sale.

Quite a good crowd attended the A. E. Cook Hereford sale at Sioux City, Iowa, on April 19th, and seventy-five head were disposed of at an average of \$80.68. The prices paid in this sale were considerably lower than at his former sales, due possibly to the fact that many of the cattle were quite young. The three-year-old bull, Theodore, topped the sale at \$200, going to Mr. H. C. Hefner, Bloomfield, Neb. College Militant was secured by Mr. D. F. Gibbs, Newcastle, Neb., at \$110, and both of these bulls were good bargains at those prices. Mr. Morris Dugan, of Sargent Bluffs, Iowa, was a heavy buyer in the sale, as were also Messrs. H. Codd, Westfield; C. R. Williams, Sioux City; S. A. Brightbaugh, Dakota City, Neb.; Peter S. Peterson, Osmond, Neb.; B. Filbert, Osmond, Neb.; John Twohig, Goodwin, Neb.; J. H. Allen, Allen, Neb.; and Burt Bros., Mapleton, and others. Colonels Woods and Reppert cried the sale, assisted by Tequist in the ring.

Thomas & Ellison's Dispersion Sale.

The Short-horn dispersion sale of Messrs. Thomas & Ellison, Rushville, Ind., was not what it should have been. Very few breeders were present. About fifty head of cattle were sold at an average of about \$92.50. Variety Grove Buchan topped the sale, going to Messrs. Thos. Johnson & Son, of Columbus, Ohio, who bought several of the best things in the sale. Most of the cattle remained in Indiana, some going to Ohio and Illinois. Colonels Bellows and Reppert did the selling in a very satisfactory manner.

Schmitt's Hay Rack Clamps.

The advertisement of the Schmitt New Lever Eccentric Hay Rack Clamps will be found on page 15 of this paper.

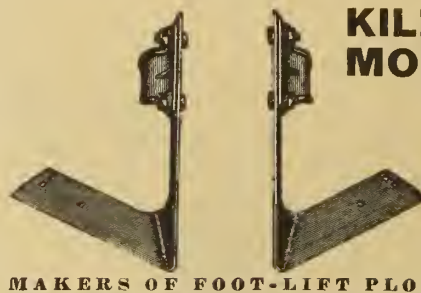
This clamp is a simple device for attaching the hay rack to the wagon. It may be operated instantly and by its use all of the old back-breaking work of lifting a hay rack on and off is avoided. No wrench is required; the change can be made in the field just as well as anywhere else. It has numerous advantages and has met with hearty recommendation from all those who have given it a trial. Mr. T. R. Marsh, who bought one, says: "The Schmitt hay rack clamps are the most convenient articles ever made for a farmer's rack. I would not have a rack without them." For prices and illustrated descriptions write to Mr. Phillip Schmitt, Parker, S. D.

Silver Strand Lightning Rods.

The Silver Strand pure copper cable lightning rods are advertised on page 25. The Silver Strand, which is merely a silver color copper wire woven into

the cable, adds no value to the capacity of the wire, but it does add to the certainty with which the buyer may get an absolutely dependable 99 per cent pure copper wire. This precaution became necessary from the fact that many inferior brands of lightning rods were being sold and it became necessary to protect the Silver Strand in this manner. The Silver Strand lightning rod is made by the Electra Lightning Rod Company, of Cresco, Iowa. Many important arguments are set forth in their advertisement and additional ones may be had in a booklet entitled "Silver Strand" which may be had free of charge by filling out the coupon in the advertisement and forwarding it to the Electra Lightning Rod Company, 300 Market St., Cresco, Iowa.

Smokers find Lewis' Single Binder 5c cigar better quality than most 10c cigars.



KILL QUACK-GRASS, MORNING-GLORIES, etc.

TWO 12½-inch cutting edges on each blade, blades reversible. Go in place of shovels on any cultivator, with either round or open sleeves—state which. Lighter draft than shovels, no shields and work closer to the plant. Pulls weeds and trash away from the row. Clean your fields quickly and easily and increase the yield by this system of surface cultivation. Price \$2.50 per pair. Ask your dealer to order for you or write.

EMERSON-BRANTINGHAM COMPANY
ROCKFORD, ILLINOIS
MAKERS OF FOOT-LIFT PLOWS, STANDARD MOWERS, ETC.

I want Agents and Fire Dealers

King Lightning Rods

Backed by \$50,000 Guarantee

They are of the most modern and approved design. Guaranteed to be 99 per cent pure copper, 30 strands to the cable; nickel tipped copper uprights; pure aluminum weather vanes of special design, with gold leaf ornaments; all connections so perfect that King Rods are approved by Insurance Companies, Electrical Experts, Building Contractors, etc.

King Lightning Rods are the best in the world, but they cost no more than the ordinary kind. Best of all they are indestructible and will give you life-long protection for your property. My Gilt Edged \$50,000 guarantee is further proof of the perfection of my rods, their high quality and efficiency. Every outfit I make has this guarantee back of it. Furthermore, 20,000 farmers, whose property is protected by King Lightning Rods, endorse them. Of the thousands of buildings, public and private, equipped with my rods, not one has been damaged in the smallest manner by lightning. Here's a record hard to equal, much less beat—one I'm proud of—one makers of lightning rods would like to have.

See your dealer today, ask him for King Rods—the best. If he has none in stock ask him to get them or write to me—I'll tell you where to get them and send my book on Lightning Facts.

I WANT 2,000 FARMER AGENTS

Perhaps you have sold or rented the farm and will have spare time this spring or summer. I want several more good agents in the counties where I have no selling arrangement for my rods. Write me and I'll make you a proposition adding from \$1,000 to \$3,000 to your income for a few months work. Many of my representatives earn more than this, though this is an average amount. Get my proposition at once before some other good man snaps it up. Address

Geo. M. King, President, Geo. M. King Mfg. Co., Des Moines, Ia.
701 E. Walnut Street

Book on Lightning Facts FREE

Homeseekers' Rates

Tickets to the West and Northwest will be sold the first and third Tuesdays of each month at very low rates, beginning February 1 and ending December 20, 1910

For full information address

Union Pacific

"The Safe Road to Travel"

Dining car meals and service "Best in the World."

E. L. Lomax, G. P. A., Union Pacific R. R. Co., Omaha, Nebraska,
and
J. W. Turtle, T. P. A., 310 W. 5th St., Des Moines, Iowa.

DATES FOR LIVE STOCK SALES.

- Short-horn Cattle.**
 May 20, W. E. Cutler, Corydon, Iowa.
 June 1, H. L. Summers, Malvern, Iowa, sale at Wayne, Neb.
 June 2, J. G. Eiller, Hartington, Neb., at Crofton, Neb.
 June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 17, F. M. Zenor, Woolstock, Iowa.
 June 21, Jesse Binford & Sons, Liscomb, Iowa.
 June 28, Combination sale, Chicago, Ill., Sidney B. Smith, manager, Springfield, Ill.
 Dec. 6, Will C. Meyer, Carroll, Iowa.
 Dec. 14, C. A. Saunders, Manilla, Iowa, at South Omaha, Neb.
 Dec. 14, C. A. Saunders, Manilla, Iowa.
 Dec. 21, Ed Morgan, Kanaranzi, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.
Aberdeen Angus Cattle.
 May 31, H. J. Hess, Waterloo, Iowa.
 June 1-2, Combination sale, M. A. Judy, Mgr., South Omaha, Neb.
 June 1-2, Chas. Escher & Son, South Omaha, Neb.
 June 7, James Williams, Marcus, Iowa.
 June 8, Stanley R. Pierce, Creston, Ill.
 June 9, J. W. Wheatley, Kempton, Ind.
 June 29, Combination sale, Chicago, Ill., Sidney B. Smith, manager, Springfield, Ill.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 18, Christian-Lang Co., Omaha, Neb.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.
 Oct. 25, R. M. Anderson & Sons, Newell, Iowa.
 Oct. 26, Lakeside Farm, Storm Lake, Ia.
Guernseys.
 May 18, Wisconsin State Fair Grounds, Milwaukee, Wis., Charles L. Hill, Rosendale, Wis., sales manager.
 May 19, Combination sale, Appleton, Wis., Dr. O. N. Johnson, Appleton, Wis., Secy.
Hereford Cattle.
 June 30, Combination sale, Chicago, Ill., Sidney B. Smith, manager, Springfield, Ill.
 Oct. 20, H. D. Clore and Z. T. Kinsell, Chariton, Iowa.
Holstein-Friesian Cattle.
 May 25, Consignment sale, Watertown, Wis., E. E. Randall, Hustisford, Wis., and Sidney Jones, Watertown, Wis., Mgrs.
 June 21, 22 and 23, Robt. E. Haeger, Algonquin, Ill.
Poland China Swine.
 Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
 Sept. 24, J. W. Pfander & Sons, Clarinda, Iowa.
 Oct. 12, W. J. Crow, Webb, Iowa.
 Feb. 8, W. J. Crow, Webb, Iowa.
 Feb. 9, C. C. Polly, Whiting, Iowa.
 Feb. 10, James Cockerton, Whiting, Ia.
 Feb. 21, J. W. Pfander & Sons, Clarinda, Iowa.
Duroc Jersey Swine.
 Oct. 28, W. M. Sells, Indianola, Iowa.
Clydesdale Horses.
 June 1, R. O. Miller, Lucas, Iowa.
Percherons and Belgians.
 May 12, W. L. DeClow, Cedar Rapids, Iowa.
Mules.
 Oct. 19, C. C. Judy, Tallula, Ill.

FIELD MEN.

- M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.
 H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.
 Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Lincoln Hotel, Lincoln, Neb.
 A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
 E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

- Short-horn bulls singly or in carload lots can be had of Messrs. Riley Bros., Albion, Neb. See their advertisement on page 35.
 Red Polled bulls are advertised for sale by Mr. C. W. Huff, Mondamin, Iowa, on page 37.
 A few yearling Polled Durham bulls are advertised for sale by Mr. Wm. Barrans, Lenox, Iowa, on page 36.
 A number of very choice young Scotch and Scotch-topped bulls are advertised for sale by Mr. Perry O. Brown, Lamoni, Iowa, on page 36.
 Some splendid Crimson Wonder Again fall boars out of that celebrated brood sow, H. A.'s Queen, are advertised for sale by Mr. W. M. Sells, Indianola, Iowa. See page 35.
 Proud Tecumseh 101353, a splendid three-year-old Poland China boar, and eighteen head of fall boars and gilts are offered for sale by Mr. Herman Baltz, Fremont, Neb., on page 34.
 Mr. W. D. Merritt, of Olin, Iowa, breeds Aberdeen Angus cattle of the choicest strains and has a most excellent herd of breeding cows. At the present time he is all sold out of surplus stock, but hopes in the fall to be

able to supply customers with something that is right.

Hereford bulls are offered for sale by Mr. A. F. Hager, Avoca, Iowa, on page 37.

Mr. P. G. Tyrrell, the old-time breeder of Short-horn cattle, at Oxford Junction, Iowa, has on hands a splendid lot of cattle, but as he contemplates a fall sale is not making any attempt to dispose of them.

The Nebraska Land Company, of Sidney, Neb., announce on page 18 that they have for sale cheap lands in western Nebraska and Colorado. Buyers who want to take the advantage of homestead relinquishments may receive important information by writing to the address named.

As will be noted in the advertisement on page 19, Mr. C. X. Nicoulin, of Algona, Iowa, has for sale a number of northern Iowa farms which he is offering at prices that make them rare bargains. Both improved and unimproved property is offered. For additional particulars write to the address named.

A splendid double-bred Blackbird bull, also a gilt and a few Pride bulls are offered for sale by Messrs. Isenbarger Bros., Battle Creek, Iowa. They own one of the very choice Aberdeen Angus herds in the state. Write them and mention The Homestead. See advertisement on page 37.

On page 18 of this issue, Mr. R. Tegler, of Edmonton, Alberta, Can., is offering large tracts of land for sale at \$10 to \$12.50 per acre. He also handles improved farms, business lots and suburban property. For specific information in regard to prices and terms, write Mr. Tegler, after reading his advertisement.

Mr. B. S. Allen, of Laurens, Iowa, advertises on page 18 that he has for sale 320 acres of good land in Pocahontas county, Iowa. This land is four and one-half miles from the county seat. It is well-improved, thoroughly tiled and desirable property in every way. Mr. Allen is only selling this farm for the reason that ill health compels him to give up farming. For full particulars write to Mr. B. S. Allen, Laurens, Iowa.

The Dowden Potato Digger is advertised on page 23 of this paper. The engraving in the advertisement shows the effective means by which the potatoes are dug, cleaned and sorted. None are missed and everything is finished up much better than could possibly be done by hand. The capacity of the machine is great, so that a large acreage is covered in a day. Prices, testimonials and other information may be had by writing for a free catalog to the Dowden Mfg. Co., 1011 Elm St., Prairie City, Iowa.

Messrs. Allen Bros., breeders of Chester White hogs at Russell, Iowa, place an advertisement on page 33 of this paper. In this they announce they have for sale O. I. C. fall boars and gilts. These, they say, are as good a lot as they have ever raised. They come from prize-winning blood on both sides. They are the get of Highland Teddy, that was a first-prize winner at Des Moines in 1908. He has since proven himself to be an extra good breeder and his pigs have fine form and scale. For special early sale prices write to Messrs. Allen Bros., Russell, Iowa.

Mr. W. J. Butler, of Ottawa, Ill., writes that this paper has been selling a number of horses for him. He still has six Percheron and Belgian stallions that he will price very low in order to close them out. These stallions are from two to five years old and are bargains at the prices asked for them. Mr. Butler says that he will pay the fare of a prospective buyer to his place if he does not show him the best stallions for the money asked that he has seen. If any of our readers need a stallion, they should write or visit Mr. Butler at once. His advertisement appears on page 37. When writing please mention this paper.

Mr. H. L. M. Bruner, of Toledo, Iowa, places an advertisement on page 37 of this paper which should interest anyone who has a strictly good Percheron stallion for sale. Mr. Bruner wants to buy a stallion two years old or over, preferably an imported one, but in any event a good one. He breeds Aberdeen Angus cattle and wants to exchange cattle for the stallion on a reasonable basis of values. Mr. Bruner's cattle are right. They belong to the Pride, Erica, Blackbird and Queen Mother families. The herd is headed by Imp. Ellock, the Trojan Erica bull previously at the head of the Pierce herd in Illinois. A representative of The Homestead saw these cattle a few days since and is pleased to say that they are right in every particular and that anyone who deals with Mr. Bruner will secure individuals of the breed that will be a credit.

Mr. James Houchin, of Jefferson City, Mo., whose recent public sale of horses attracted considerable attention, writes under late date, saying: "I expect to make these horse sales annual events and that the one scheduled for next year will be conducted along larger and greater lines than was the case this year. I expect to make preparations to sell under cover, which will prevent any interruption on account of weather. This sale demonstrated the fact that people want good horses. One flattering feature about the consignment was that only two horses were rejected and they for reasons that had not been called by the owners. I started in to make this sale fair and open and think this fact demonstrated the accomplishment of a purpose. It is not possible always to keep by-bidding out of a sale, but it was the sentiment expressed that this

sale was as free from it as any sale that had ever been conducted."

A note from Mr. W. W. Vaughn, breeder of Short-horn cattle, at Marion, Iowa, states that he has sold the splendid bull, leadlight, to Messrs. Harris & Son, of Atlantic, Iowa, for \$500. This bull is referred to somewhat in detail in an item concerning Mr. Vaughn's herd in another column of this issue. See page 36.

Although the demand for seed corn this season has been beyond all precedent, the Iowa Seed Co., Des Moines, Iowa, inform us that they still have a limited supply of several of the leading varieties and especially of the early sorts suitable for planting in northern Iowa or anywhere that quick maturity is desirable. See their advertisement on page 29. The corn is graded and grows well in their test and they can make quick shipment on receipt of order. Samples free.

Farmers who are interested in fox terrier dogs should read the advertisement of Mr. S. Harr, of Riverside, Iowa, that appears on page 20. This gentleman has for sale puppies of either sex which he will sell at \$15 each or \$25 for a pair. There is no dog on earth that can equal the fox terrier as a rat catcher. They will go a long way toward reducing the \$50,000,000 destruction by rats which our government statistics man talks so loudly about. Orders should be forwarded without delay.

A recent note from Mr. H. M. Barr, of Edgewood, Iowa, whose announcement that he wished to dispose of his herd of Scotch Short-horn cattle has appeared in our advertising columns for several weeks past, states that he has sold the entire bunch of Duchess of Glosters to Messrs. H. H. Powell & Son, of Linn Grove, Iowa. Messrs. Powell are to be congratulated on the fact of securing these cattle. They are splendid animals with high individual merit and blood lines that cannot be improved upon. They will certainly add wonderfully to the character of the Powell herd.

Mr. Leslie McCormick, of Laddonia, Mo., for whom a representative of this paper purchased the top-price Poland China sow at the Pfander sale, February 26th, writes concerning the sow as follows: "The old sow bought for me at the Pfander sale farrowed eleven pigs. She saved four sows and two boars, but they are all extra good ones. I sold one boar to a neighbor before it was farrowed, which leaves only one. He is a fine one and I had thought of keeping him for my own use. I would, however, let him go to some appreciative buyer at \$100 if taken any time within the next six months. I believe I could have sold twenty-five gilts from this litter if I had been willing to price them."

We wish to call attention to the change of advertisement of Messrs. Baxter & Comer on page 33 of this issue of The Homestead. Trade has been good and customers entirely satisfied. They have twenty choice fall yearling sows by B. & C's Colonel, Colonel S. and McNeil's Model that they will breed to B. & C's Colonel and Crimson Wonder III, the two state fair champion boars at the head of their herds. These boars have made good in both the breeding pen and show yard. The spring crop of pigs by them are great and the two champions look like they could make the boys step some again this year. The writer looked at them and their produce recently and wish to say to Homestead readers that you can make no mistake in buying a sow bred to or sired by either of these three great herd boars. The fall sows they are offering are strictly first class, both in breeding and individual merit. They are also booking orders for spring pigs and report sales satisfactory and business fine. They are not pricing this stuff out of reach, but wish to sell. See advertisement and write them.

Seed Corn That Grows.

Mr. J. J. Funk, of Fremont, Neb., announces on page 29 that he has for sale a quantity of seed corn that germinates better than 90 per cent. Those who have not yet procured seed should not fail to take advantage of the opportunity to secure this corn and particularly as it is sold at a very reasonable price. Do not wait, but get at once into correspondence with Mr. J. J. Funk, Fremont, Neb.

The Spartan Hay Loader Hay Car.

The Spartan Mfg. Co., manufacturers of the Spartan Hay Loader Hay-Car, will have an announcement in next week's issue. The Spartan is a time saver and, therefore, a money saver. It reduces by half the labor necessary to get the crop of hay in. As a fact, any up-to-date farmer cannot afford to be without it. Full information concerning it may be had by writing the Spartan Mfg. Co., Dept. 61, Pontiac, Ill.

More Good Percherons.

A recent letter from Messrs. Taylor & Jones, importers and breeders of draft horses, at Williamsville, Ill., announces that a member of the firm sailed from New York recently direct to Havre, France, from which place he will go into the Percheron country for the purpose of selecting Percherons for the June shipment. At the same time a consignment will be purchased for September shipment. The letter further states: "We are this year going earlier than most other importers, knowing that good horses are scarce in France and that in order to secure the best of them it is necessary to be on the ground early. We expect to buy the best we can find regardless of price. We have had a splendid trade this year and we thank The Homestead and our customers for our

success. We have a few very good horses remaining in our barns and will be glad to show them to customers."

Crow's Poland China Herd.

Mr. W. J. Crow, breeder of Poland China hogs, at Webb, Iowa, writes that he has 125 March pigs. Mr. Crow has been a breeder of Poland Chinas for twenty years and has a reputation of producing the largest of the breed in the Northwest. He announces that he will hold a fall sale October 12th and a brood sow sale on February 8th.

High-Class Scotch Bulls.

Short-horn breeders who are needing a good young Scotch bull should by all means go and see the bunch that Mr. S. A. Bixler, Corning, Iowa, is offering for sale. He has a number that are sired by Diamond Rex, a son of the celebrated winner, Imp. Cock Robin, and they are extra choice and will make good herd bulls. Don't overlook Mr. Bixler when you start out to look for a Scotch bull. See advertisement on page 35.

The Self-Loading Hay Rack.

Hay makers who are in search of labor-saving devices should turn to the advertisement of Mr. James G. Bailey on page 19 of this issue, which shows an illustration of Mr. Bailey's self-loading hay rack which, with only one man, does all the work of a rack and loader. Mr. Bailey also makes roller harrows, steel-beam hay racks and other devices, as noted in the advertisement. For prices and illustrated circulars write to Mr. James G. Bailey, Delavan, Ill.

The Brookmont Herefords.

The advertisement of the Brookmont herd of Hereford cattle will be found on page 34. This herd is at all times prepared to furnish choice young bulls, together with females of any age, and at prices suitable to those who want to establish new herds. The selections that can be made from the Brookmont herd may include the most popular strains of the day and in particular the blood of that great herd bull, Imp. March On, and closer than can be found at any other place on earth. For any particulars concerning this herd write to Mr. A. E. Cook, Odebolt, Iowa.

Good Angus Bulls for Sale.

If you want to buy a well-bred young Aberdeen Angus bull call or write Mr. John H. Fitch, Lake City, Iowa. He has a splendid Trojan Erica, a Blackbird and a Pride bull that are good enough to head any good herd, and he has several more of the other well-known tribes. We not only recommend these bulls because of their breeding, but we can assure our readers that they can buy them at prices that could not be thought of elsewhere. When writing Mr. Fitch about these bulls kindly mention The Homestead. See advertisement on page 37.

Norton's Cruickshank Bulls.

That veteran Cruickshank breeder, Mr. C. C. Norton, Corning, Iowa, is offering some extra choice young Scotch bulls for sale on page 36. He is offering a splendid two-year-old roan bull for sale that is good enough to head any herd in the land. He is a grandson of the celebrated Marquis of Zenda, and he is a mellow-fleshed fellow and decidedly of the beef-making type. Mr. Norton has a splendid lot of other bulls also and it will certainly pay you to visit his farm and see what he is offering for sale. His prices are right and you can buy a bull of him at a figure that is satisfactory to both. Write him and go and see his bulls.

More South Dakota Land.

The advertisement of the South Dakota Land Company will be found on page 18 of this issue. This company have for sale lands in Hyde county, South Dakota. Most of these are situated near the town of Highmore, a little city of 1,500 people which has all the advantages of the larger cities of the state. It is only fifty-seven miles east of Pierre, the capital of the state, and sixty-three miles from Huron. The land is of a quality suitable for both agriculture and grazing purposes. The company have for sale a number of special bargains which are fully described in their maps and folders, for which address the South Dakota Land Company, Highmore, S. D.

Strawberry Plant Bargains.

Messrs. J. L. Todd & Co., strawberry specialists, at Des Moines, Iowa, have an announcement on page 19 that cannot fail to interest those who want to buy strawberry plants and to buy them at half the price usually asked. Their plants are packed for shipment any distance. This demonstrated by the fact that they have shipped strawberry plants to Mexico, Washington, Montana and other distant points, where they arrived in perfect condition. Mr. Todd has a great many patrons throughout the country who are loud in their praise of his methods. Among these is Mr. M. B. Scott, of Layton, Mont., who, under date of April 18th, wrote as follows: "We purchased several hundred plants from Mr. Todd seven years ago. In the interval we had failed to note any of his announcements until recently. During the time we purchased strawberry plants from several different firms, even those of celebrated pedigree producers. We will say, however, that we never bought any plants that so nearly all grew and did well and produced fine, large berries as those bought from Mr. Todd seven years ago. Strangers visiting our grounds gave us the credit of raising the finest and largest berries they had seen west of the Mississippi. Twelve of these have filled a quart bucket heaping full. One Lovett measured over three inches

through and was on exhibition in a showcase for some time with a quart of Bubach No. 5 composed of twelve berries. These were all from the plants referred to. We have never been able to raise them as well from plants purchased elsewhere." Note that Mr. Todd offers to send 200 plants for \$1. Forward orders to J. L. Todd & Co., Route 3, Indianola Ave., Des Moines, Iowa.

Scotch Herd Bulls for Sale.

The advertisement of Messrs. Owens Bros., breeders of Short-horn cattle, will be found on page 33 of this paper. They have at the present time for sale something like a dozen good, red, well-grown Scotch and Scotch-topped bulls ranging in age from ten to twenty-four months. They advise us that these bulls are mostly of individuality and breeding good enough to head the best herds and others are of the sort best suited for ordinary farmers. The Scotch-bred bulls belong to the Victoria Queen of Beauty, Dorothy and Butterfly families. They are sired by Courtier 5th 277599 and Baron Secret 2d 289279. These bulls are of the usual high quality offered by this firm. Prices or complete details may be had by writing to Messrs. Owens Bros., Homestead, Iowa.

Do You Need a Boar or Bull?

Homestead readers in need of a choice Duroc boar or Double Standard Polled Durham bull should look up the new advertisement of Messrs. Menaugh Bros., Mazon, Ill., on page 33 of this issue of The Homestead. They are all fit for service at once and will be priced worth the money. The boars are by O. & I. 82341, he by W. & F.'s Colonel, second dam by Ed's Colonel. This boar is a hog of much quality and will be at the shows this fall. The dams are by Buddy K. IV. and Ambition. The bulls are very choice and will be priced right. Messrs. Menaugh Bros. are well fixed on young pigs this year, having over sixty to date and more sows to hear from. They bought some very choice sows the past winter and they have pigs by their herd boars, as well as B. & C.'s Colonel, Defender, Gold Bond and King's Colonel. They will hold no fall sale, so all these choice boars are for sale at private treaty and will be priced worth the money. Look up their advertisement and write them.

"Seventy-nine" Ranch to be Sold.

The day of ranching on a big scale in Montana is about over. The coming of the farmer who tills the soil is fast driving out the wealthy ranchers who have become rich grazing stock on free government land. Mr. S. O. Fletcher, of Billings, Mont., has recently placed on the market a tract in the Musselshell Valley, comprising nearly 30,000 acres. The ranch is known, and has been famous since the year 1879, as the "Seventy-nine Ranch." This large tract is located within seven miles of the Chicago & Milwaukee Railway and the Billings & Northern. Springs of running water abound on this ranch and about 75 per cent is tillable land. The soil is rich and produces large yields of wheat, oats, barley and alfalfa. Land in this vicinity has produced as high as sixty bushels of wheat per acre. The Musselshell Valley is an ideal section for stock raising and grain growing. Mr. Fletcher states that he is going to retail this body of land in quarter sections and upwards at from \$7 to \$18 per acre. Many quarter sections that can all be cultivated will be sold at from \$11 to \$15 per acre. The entire tract will be retailed on easy terms, one-fourth cash, balance three equal annual payments. Mr. S. O. Fletcher, Box 757, Billings, Mont., will be glad to send map showing location of the "Seventy-nine" ranch to all interested. See advertisement on page 18 and mention this paper when writing.

A Holstein Sale.

On May 25th a breeders' consignment sale of Holstein-Friesian cattle will be held in Watertown, Wis. The consignors to this sale will be Messrs. S. B. Jones & Son, of Watertown; E. E. Randall and Luedke Bros., of Hustisford; W. H. Jones, of Juneau; S. M. Randall, of Waupun; E. E. Ryder, of Hustisford; S. H. Bird, of South Byron; John Seefeldt, of Hustisford; W. A. Canniff, of Juneau; S. S. Cramer, of Hartland; August Knospe, of Juneau, and W. S. Rhoda, of Oconomowoc. Each one of these breeders has a herd of which he may well be proud, and in selecting consignments for the forthcoming sale has chosen only representatives which would fitly represent the character of stock bred. Several of these breeders are well known throughout the middle West and a few of them have a national reputation. Messrs. S. B. Jones & Son, who are the only breeders in the world who have produced four or more thirty-pound cows, will present a number of their choice animals. In their draft will be Wild Rose Jones 2d Piebe 59207, a cow which has recently made a record of 26.75 pounds of butter in seven days. They will also have four other cows in the sale with records between twenty and twenty-five pounds. In addition, they are selling some of their best young bulls. Among the number will be a son of Wild Rose Jones 2d Piebe and Homestead Junior De Kol, that has forty-five A. R. O. daughters up to the present time. Four of the other bulls included in the sales list will be from dams whose records run from nineteen to 29.5 pounds. It will be a great sale and every breeder of Holsteins in the middle West should endeavor to be present. Remember the date, May 25th, and write for catalog today. Messrs. E. E. Randall, of Hustisford, and Sidney Jones, of Watertown, will manage the sale. After May 22d address all mail to them as

follows: Commercial Hotel, Watertown, Wis. Please mention this paper.

Another Familiar Planet.

Just at this time, when the world is busy talking about the great comet, it is just as well to remember that there is a much more important planet so far as the welfare of the farming community is concerned. We refer to the line of Planet Jr. farm and garden implements. These have been advertised in the columns of this paper for so many years that they are generally accepted as being of immense importance. It is a fact, however, that with the great scarcity of labor and demand of intensified farming the Planet Jr. is taking added importance in value. The Planet Jr. tools are light, strong, lasting and are fully guaranteed. No gardening operations are complete without them. An illustrated catalog giving full description and prices of the Planet Jr. tools may be had by writing Messrs. S. L. Allen & Co., Box 1105D, Philadelphia, Pa.

South Dakota Farm Lands.

The advertisement of the Wasta Land & Loan Company will be found on page 18. This company just now are exploiting their special list No. 44, which includes a tract of 1,200 acres. This is located on Elm Creek, twelve miles north of the town of Wasta; 700 acres of it is nice, level, creek-bottom land now growing heavy crops of wheat, grass, hay; 160 acres of fine upland has ninety acres under cultivation and the remaining 340 acres are rolling pasture land and good pasture. There is enough hardwood timber to last a lifetime. There is an abundance of water in the creek at all times of the year and there are also good cold water springs. The tract is all fenced and cross-fenced with fifteen miles of good fence. There is a house and some corrals. The price quoted on this land is \$17 per acre and on reasonable terms. For complete details write to the Wasta Land & Loan Company, Wasta, S. D.

Knight Commander Short-horn Bulls are being offered by Mr. H. P. McCartney, York, Neb., and to the man who has kept abreast of Short-horn affairs in this territory, little further comment is necessary. Mr. McCartney has been breeding good Short-horns for many years and the long list of satisfied customers are his best references. He is offering at present two good young bulls sired by Knight Commander that he will make special prices on for a short time. Knight Commander was sired by March Knight, a pure Scotch bull at the head of Mr. N. P. Clark's Meadow Lawn herd. He is one of the best breeding bulls of the present day. Knight's Best is a young bull of much promise and has for dam Lady Hazlewood, one of the best members of the famous Imp. Netherby family. He is a low-down, sappy fellow, and must be seen to be appreciated. The other young bull is of similar breeding and equally as good. Mr. McCartney would also spare a few females of desirable ages, either bred or with calves at foot. These cattle are in good condition and will be priced so that you will buy. For further information address as above, mentioning The Homestead. See page 33 for advertisement.

The Importance of Good Roofing.

Unito Roofing is made by the United Factories Company. The Unito is a form of roofing which answers all the requirements of those who insist that roofing be water-proofed with asphalt, that the fibers be long so that it will have strength, that it will not crack in winter or run in summer and that it will be fire-proof. It sometimes happens that buyers pay high prices for roofing with the belief that high quality comes with high price. This is not always the case. The Unito Roofing to which we have referred is sold at an extraordinarily low price and is shipped direct from the factory, thus saving any middlemen's profits. It is sent out all complete with nails and cement. One roll contains 108 square feet of roofing. There are numerous other advantages of the Unito. These may be obtained in detail by sending a postal card request to the United Factories Company, Dept. A 28, Cleveland, Ohio. This card will bring a copy of their big combination catalog book of prepared roofing material, roofing metal, shingles, incubators, buggies, harness, gasoline engines and a large list of other articles that are sold direct from the factory at surprisingly low prices.

Pfander's Giant Poland Chinas.

Messrs. J. W. Pfander & Sons, breeders of Poland Chinas, Clarinda, Iowa, write under date of April 22d as follows: "The big Poland Chinas are coming along in good shape and prospects of next season are for two of the greatest sales ever made. We have about 100 head of pigs on hand now and everything seems to be moving in the right direction. Inquiries are coming in every day and we could have had orders for all our best spring pigs now had we been so inclined, but we are holding all the spring pigs for our sales. You may claim our dates, September 24th for the fall sale and February 21st for the brood sow sale. We have sold all our fall boars except two, which we are intending to keep for the fall sale. We could have sold ten or fifteen more Long King fall boars if we had had them. We just shipped a pair of fall pigs to Mr. W. S. Ivey, of Petersburg, Va., that we consider outstanding good ones, and we believe we can say without hesitation that they will weigh 2,000 pounds at maturity. We also sent a pair of pigs to Mr. T. W. Hudson, of Hillsboro, Ark., and he writes us that he is more than pleased with them. We now have for sale the best son of Long King that we know of anywhere. He was two years old March 10th and

weighed 750 pounds in but thin breeding condition. He can easily carry 150 pounds more before fall and if we do not sell him within the next thirty days we will probably hold him for the fall sale, after showing him at Des Moines and Lincoln. We think he carries more quality than any real big hog we have ever seen and there is no doubt that he will mature fully as large as his sire."

A Valuable Garden Plow.

From time to time there have appeared in our columns the advertisements of the Beats All garden plow made by the Hartley Mfg. Co., of Hartley, Iowa. This plow is an implement of unusual value in gardening or in the working of small tracts. By its use every bit of ground in a garden may be utilized. The plow is guaranteed to scour in any kind of garden soil with proper care. It is made from the finest steel, tested, and found to be absolutely all right. The picture in the advertisement shows the various attachments which go with it, and the manner of use. For prices or further particulars write to the Hartley Mfg. Co., Hartley, Iowa. See page 15.

McIntyre's Poland Chinas.

Under date of April 12th, Mr. F. W. McIntyre, the well-known breeder of Poland China hogs at Red Oak, Iowa, writes as follows: "I have had a great trade since last September and have shipped many high-class hogs to Kansas, Illinois, Missouri, Nebraska, Iowa, Texas, Oklahoma and South Dakota. Some of these hogs have gone to the very best breeders, while others have been used as foundation stock in starting many new herds. I have many testimonials which indicate that my hogs have given perfect satisfaction. The fall boars which I now offer for sale are top notchers, with heavy bone, long, well-formed bodies and smooth finish. They will weigh from 150 to 175 pounds. The Homestead is a great puller for me." See advertisement on page 35.

The Elk Creek Short-horns.

Messrs. S. A. Nelson & Sons, proprietors of the Elk Creek herd of high-class Short-horns, are offering just now some very attractive propositions in some young Scotch bulls. These bulls are sired by Jolly Hampton, Custer Butterfly and Crimson Scot. Jolly Hampton is by the great Merry Hampton and is a worthy son of the great sire. The bulls offered sired by this bull are sure to please and are in fine condition. Those sired by that exceptionally good Butterfly bull, Custer Butterfly, and Crimson Scot are of the same high class that has made the Elk Creek herd famous. This well-known firm are now using an outstanding good bull at the head of their herd, he being Duke of Wetherly, second-prize bull at the Nebraska State Fair, 1909. He was sired by Nonpareil Victor 2d and out of Burwood Sultan, sired by the famous show and breeding bull, Glenbrook Sultan, sire of many prize winners, and he by the world-renowned Whitehall Sultan. Mr. Nelson has always had the interest of the breed at heart and in his many purchases has been a discriminating buyer of the best. If in the market for anything in this line you should get his prices at once. See page 33.

A Desirable Farm Car.

The advertisement of the Norwalk "24" will be found on page 11 of this paper. The picture in the advertisement shows the Norwalk to be a handsome car and the guarantees made by the manufacturers indicate that it is strong, durable and in nearly every way the equal of cars which are selling at from \$1,500 to \$2,000 each. The Norwalk is a roomy, high-powered touring car which is sold, one in each neighborhood only, at the wonderfully low price of \$950. One of these cars may be secured by forwarding a deposit of 25 per cent of the purchase price, the remainder to be paid when the car is found to be satisfactory or, if it should not do so, the money will be refunded. If, however, it is more desirable to make a personal examination at the factory, the manufacturers agree to deduct the traveling expenses of the purchaser from the purchase price of the car or refund the same if the car should not be just as they represent it. Read carefully the statements in the advertisement; they are complete as to details of description. If anything further should be wanted in the way of information direct an inquiry immediately to the Auto-Bug Company, Norwalk, Ohio.

Vaughn's Short-horn Bulls.

Mr. W. W. Vaughn, of Marion, Iowa, as will be noted in his advertisement on page 36, has for sale a number of Short-horn bulls. A representative of The Homestead visited Mr. Vaughn's herd last week and made a careful inspection of the entire lot. These bulls are of good families. Several of them are of straight Scotch lines of breeding and others with four or five excellent top crosses. They are the get of Brawith Lad or Headlight. Brawith Lad is a bull of excellent lines of breeding, being a grandson of Joy of the Morning. Headlight is by the noted Red Knight and his dam was Imp. Strawberry 8th by Mountain Archer, the Duthie-bred sire. Headlight is one of the best formed bulls that the writer has seen and he represents a line of breeding which has won laurels at the greatest Short-horn shows of the United States. The young bulls which are offered for sale are solid reds, two of them, in particular, of good Scotch lines of breeding and individuality enough to go at the head of strictly high-class herds. Two or three other bulls are such as farmers want and will be sold at farmers' prices. Mr. Vaughn also has for sale females of various ages. For prices,

additional descriptions or other information write to Mr. W. W. Vaughn, Marion, Iowa.

Good Chester White Boars for Sale.

On page 35 of this week's issue we begin the advertisement of Mr. John F. Holst, Jr., Denison, Iowa, who is offering for sale about seventeen head of very excellent Chester White fall boars for sale and he also has about the same number of sows for sale. These are sired by Buster 19085, a son of that old and famous boar, Combination, and these are out of daughters of the noted winner, Modeller, that has stood at the head of the Hemmerling herd. These are bred in the purple and they are good. Those of our readers who are wanting a good fall boar or a few good fall sows had better send Mr. Holst an order at once and we will assure them that they will be satisfied with what he sends them. When writing him kindly mention The Homestead.

They Carry the Lightning.

On page 19 the Omaha Lightning Rod and Electric Co., 1012 South 12th St., Omaha, Neb., offer something new in lightning rods. Their rod has a coil center. By the use of this feature they are enabled to give a larger surface on the outside of the rod and a hollow surface on the inside, which naturally gives their rod a greater conductivity than is usual in lightning rods. Elwood rods (by which name the product of this company is known) are made of hard drawn copper wire, the same kind of wire as is used by the electric light, telegraph and telephone companies. They publish a book containing very valuable information with full description of their rods which will be sent upon request.

Binder Engines Scarce.

The Cushman Motor Works, manufacturers of the famous Cushman binder engine which has been so popular for so many years for use on binders, advise us that last year they could not supply half the demand because many farmers waited until the last minute. The farmers should order now to be sure of getting their engines delivered on time. This engine is said to be the only direct attached, chain drive binder engine manufactured. It is a four cycle motor, water cooled, and can be used for many other jobs besides running the mechanism of the binder. Full description of the Cushman engine can be had by addressing the Cushman Motor Works, 2033 N St., Lincoln, Neb. See advertisement on page 19.

The Maytag Car.

On page 12 of this paper our readers will find an attractive, illustrated announcement of the Maytag car, an automobile which has gained a wonderfully popular following. The manufacture of automobiles has become of so great importance that it has attracted the greater minds of the financial and mechanical world. Not the least among these is Sen. F. L. Maytag, who now heads the Maytag-Mason Motor Company, who manufacture the automobile above referred to. Senator Maytag is one of the leading business men of Iowa. His interests in the manufacturing industries of the West exceed those of any other man in the same field. His previous ventures have included the Parsons Band Cutter and Self Feeder Company and the Parsons Hawkeye Mfg. Co., both large and successful manufacturers of various sorts of farm machinery. His latest endeavors have been devoted to the Maytag-Mason Motor Company, who manufacture six Maytag models, as announced in the advertisement. The quality and general merit of the Maytag, like all other machines which have gone out from the companies under the direction of Mr. Maytag, are all that anyone could ask. They are fully described in the free book which gives all the models and prices and which may be had by writing at once to the Maytag-Mason Motor Company, Maytag Station 45, Waterloo, Iowa.

Waltmeyer's Duroc Jersey Herd.

A representative of The Homestead last week had the pleasure of visiting the herd of Duroc Jersey hogs owned by Messrs. Waltmeyer Bros., at Melbourne, Iowa. It will be recalled that this herd is the home of Golden Model 2d, a show hog that won first honors at the Nebraska State Fair and at the Interstate Live Stock Show at Sioux City last fall, as well as second at the Iowa State Fair. He also headed the first-prize aged herd at Des Moines and at Sioux City, as well as being a winner of other important prizes. Golden Model 2d is this season in splendid thrift and form, with an excellent probability of being in the money-taking class at the state fairs this fall. Perhaps more than half of the crop of pigs on the farm this season are the get of this hog and they are certainly a credit to him. While, of course, they are somewhat young on which to base predictions, there are a number of them that have that attractive and striking form which, in a pig, is a sure indication of development into a high-class mature animal. A proportion of the remainder of the season's crop of pigs are by Protection Colonel 82827. This is a double Colonel-bred hog that made his mark in the show ring last year by capturing first at the Iowa State Fair in the senior yearling class, taking the same honors at Nebraska and Sioux City. He seems to have crossed well on the Golden Model 2d stuff and has fulfilled all expectations as a herd boar. He is also coming along in a way that might indicate that he is headed for the state fairs this fall. These boys have one or two litters by outside boars in their herds. Their brood sows, aside from those by Golden Model 2d, include daughters of Crimson Wonder Again,

Ohio Chief, Glendale Critic, H. A.'s Choice Goods, Model Chief's Fashion, Savannah Belle's Chief, etc. The crop of pigs on the Waltemeyer farm is a good one and bids fair to uphold the splendid record made at last year's shows.

The Studebaker Products.

The Studebaker Bros. Mfg. Co., of South Bend, Ind., whose advertisement will be found on page 28 of this paper, have the largest buggy and wagon factory in the world. They make wagons, buggies and harness, make good ones that are dependable, up-to-date and attractive in design. The Studebaker wagon has been in the market for nearly sixty years and a million of them are now in daily use, some of which have been going for more than twenty-five or thirty-five years, and are still good. The reason for this durability is that every piece of wood in the Studebaker wagon is thoroughly air seasoned, that the selections are made by men who know exactly the best material to use and that the whole wagon is ironed and reinforced in every way that will add strength. The buggies are made along attractive lines of design, easy riding with comfortable seats and cushions, and have the style and comfort that make riding in them a matter of pride. The Studebaker harness, well, they speak for themselves. They are described in full in the thirty-six-page illustrated catalog known as the Farmer's Friend, which is sent to every reader of this paper who writes for it to the Studebaker Bros. Mfg. Co., South Bend, Ind.

Heil & Sons' Red Polls.

For twenty years the name of Heil has been one that has stood for much that meant the best in Red Polled circles in Nebraska, and it is only that the senior member of the firm of Messrs. Wendell Heil & Sons is approaching the proverbial three-score and ten and feels that he has done his share in fighting the battles of this deserving breed, that they are offering the entire herd at private sale. This great herd has only been built up through years of patient effort and liberal purchases of the best blood obtainable. Messrs. Heil & Sons have had at all times some of the very best bulls in the land at the head of their herd, and the present sire in use there will weigh in good breeding condition at least 2,300 pounds, and Messrs. Heil & Sons assure us that he is getting as good milkers as they have ever owned. This is truly a golden opportunity to secure cattle for the founding of new herds, in which event you will reap the benefits of the lifelong endeavor of one of the most ardent supporters the breed has ever known. The demand for bulls from this herd has been so strong that they are about sold out of this class of stock, but females are offered in any number to suit. For further information address Messrs. Wendell Heil & Sons, Cedar Creek, Neb. Please mention The Homestead when writing.

New Town in Montana.

Clarkston, Mont., is the newest town in the West to make its bow to the public. It is located in Gallatin county, on the main lines of the Northern Pacific and the coast extension of the Chicago, Milwaukee & St. Paul Railroads. Gallatin Valley is one of the old proven districts of the state, it having been farmed successfully since the early sixties. Clarkston is located at the extreme lower end of the valley and, according to Professor Atkinson, of the state agricultural college, at Bozeman, the land in and around Clarkston possesses great fertility. The new town boasts of many advantages besides being located on two transcontinental railroads. The irrigated land is surrounded by thousands of acres of rich grain land raising from thirty-five to sixty bushels of winter wheat. About 5,000 acres immediately adjacent to the town are irrigated, the water coming from the Missouri river, which, by the way, is formed about five miles above Clarkston at the confluence of three great rivers, the Madison, Gallatin and Jefferson. It was near Clarkston that Messrs. Lewis and Clark pitched their camp for a season 105 years ago and, after the reconnaissance for a year, pronounced it a country filled with wonderful possibilities and advised President Madison to build a great fort at the junction of these rivers. The Missouri is a great river, even at its source, and were it not for the great falls it would be navigable to its head. At Clarkston the river is clear and the water cool, being made up of mountain rivers and streams, and abounds with fish of every variety known to mountain rivers. The town lot sale which occurs on the Clarkston townsite May 14th will offer many opportunities to persons looking for business openings as well as those seeking cheap irrigated or non-irrigated land. The town will be fed and nourished by 150 square miles of farming land. The bench, or non-irrigated lands in Montana, are devoted most exclusively to raising wheat and other small grains. The yield of wheat in Montana for the year 1909 was thirty-two bushels per acre, or greater than any other state in the Union. The state produced 12,000,000 bushels of wheat last year. Winter wheat is raised almost exclusively. Montana's agricultural products sold for \$114,000,000 last year, this being \$10,000,000 more than the state of Washington or \$15,000,000 more than the state of Colorado. About 12,000 acres of land will be sold at Clarkston at public auction on the same date of the townsite opening. Terms will be made to suit the purchaser. The sale will be conducted in practically the same manner as the state land sales which have proven so popular in that state. East-

ern purchasers will have an opportunity at this sale to buy land at its actual worth, thus saving agent's commission. Persons desiring to buy land at this sale should purchase home-seekers' excursion tickets May 3d to Lombard, Mont., this being the nearest accessible town where ample hotel accommodations can be had. Lombard is only five miles distant from the new town. As the sale occurs on the 14th, persons leaving eastern points May 3d will have ample time to inspect the land before the sale. See notice of opening on page 18.

News From Trumans.

In a letter dated April 23d, Mr. J. G. Truman, manager of Trumans' Pioneer Stud Farm, at Bushnell, Ill., give some important information concerning their mare sale held on April 20th. Mr. Truman says: "Our sale was a great success; not from a financial standpoint, but because of the fact that we sold every animal that was offered and had the pleasure of selling them, with one exception, to old customers. It was certainly gratifying to us to see about the ringside our old customers with whom we have been doing business for thirty years. The mares were in our opinion the best lot of young things that have ever been offered at an auction sale in America. They will do credit to the breed. We have on hand at this time about 100 imported stallions of the Shire, Percheron, Belgian and Hackney breeds. In all the history of our firm, covering a period of thirty-two years, we have never had as large and select a lot of horses as at the present time. These are not culls nor left overs, but have all been imported since the 25th of January, 1910. They are parts of four importations made since that time. They run in ages from two to six years old and are bay, brown, black, roan and gray in color. We are making very attractive prices in order to move these horses, and shall be pleased to hear from readers of your paper who are not yet supplied. They can come to Bushnell and rest assured they can find a grand display of horses from which to make their selections." The advertisement of this firm will be found on page 39. Information may be secured by writing to Trumans' Pioneer Stud Farm, Bushnell, Ill.

"Canna Hill" Short-horns at Public Sale.

On Friday, May 20th, at his well-known "Canna Hill" Farm, Mr. W. E. Cutler, of Corydon, Iowa, will make a public sale of forty-five head of Scotch and Scotch-topped Short-horns, and it will be one of the good offerings that will be sold this spring. There will be twenty-two head of cows and heifers and thirteen bulls, and it is an excellent lot of cattle throughout. One of the principal attractions is the herd bull, Champion Commodore 287299, a son of Young Commodore, out of Imp. Scarlet Bangle, one of the greatest cows in the state. This bull was bred by Messrs. Cookson Bros., of West Branch, Iowa, and belongs to their famous Cruickshank Broadhooks tribe. Mr. Cutler bought this bull when a calf, of the Messrs. Cookson Bros., and have since used him in his herd with the best of success. Owing to the fact that he is retaining his heifers in his herd, it therefore becomes necessary to dispose of him. This bull is bred in the purple, is a bull of plenty of scale and quality, and is one of the best herd bull propositions that will be offered at public sale this summer. We will have more to say of this bull in later field notes, but in the meantime we will suggest that Short-horn breeders get Mr. Cutler's catalog and study the breeding of this bull. Another nice yearling Scotch bull is Choice Broadhooks, a son of Champion Commodore and out of Golden Lis by Golden Champion. His grandam is Imp. Fleur de Lis by Janissary, and he belongs to this good but very scarce tribe of Scotch cattle. Then there are eleven head more of young Scotch-topped bulls, and among the lot are some very creditable and meritorious youngsters. In females he is also putting up a very choice and useful lot, and there will be from fifteen to twenty calves to be sold with dam. This in itself is a demonstration that the "Canna Hill" herd is a breeding herd, and the calves to be sold with dam and the younger bulls and heifers also in sale show what kind of a breeding bull has been at the head of the herd. Among his more choicely-bred Scotch females that will be sold will be Queen Gloster, a richly-bred five-year-old Duchess of Gloster cow that will be due to calve about sale time. This cow is not only bred right, but she is a splendid individual. Her yearling heifer by Golden Banner will also be sold. Then there is a good Orange Blossom cow in the sale that sells with a good bull calf at foot by Young Commodore and a nicely-bred Victoria cow with a heifer calf by the same bull. Another very choice four-year-old cow is Bonnie Alexandria, a daughter of Bonnie Scot, and she belongs to the noted Alexandrina tribe. There is also a well-bred Rosemary heifer in the sale and several more that are bred along similar lines. Besides the Scotch cattle, there are some most excellent individuals among the Scotch-topped sorts, and the offering, as a whole, is one that we can recommend to our readers who may be on the market for some good Short-horn cattle. We know of no place where good cattle can be secured at as reasonable prices as they can in this part of the state and we therefore think the Cutler sale will be a good place to buy cattle. Mr. Cutler has made arrangements with parties from the North to come to Chariton and stop at the Bates House at his expense, and free conveyance will be provided to take them to the farm. The same accommodations will be provided for those who go to

TOO LATE TO CLASSIFY.

Fessenmeyer's Great POLAND CHINA OFFER

HERD BOARS A WONDER (47460) A107353 THE MOST NOTED BIG-TYPE BOAR LIVING.

Weight 1000 pounds in breeding condition, 1,200 pounds when fitted. The most widely advertised big-type boar in the United States.

CHIEFTAIN 51221
BIG PRICE 40065
Also two great breeding boars of the larger strains.

I AM now offering to sell spring boars and gilts sired by **BIG PRICE, CHIEFTAIN, MISS-OURI LAD** and **MODEL CHIEF**, and out of my noted **big-type** sows, to be shipped at eight to ten weeks old at \$25 each. I am also breeding eight or ten sows to **A WONDER** to farrow in September, that I will sell at private treaty. Nine sows in my herd have farrowed an average of over ten pigs to the litter so far. This is the greatest opportunity ever offered to buy big-type boars and gilts at private treaty. Send me your order at once. Address, mentioning this paper, to

A. FESSENMEYER, CLARINDA, IOWA.

Corydon. Write for the Cutler catalog at once and kindly mention this paper. See advertisement on page 34.

A Reliable Distemper Cure.

Distemper is one of the most serious afflictions of the horse at the present time. Its presence is doubly harmful for the reason that every horse is needed on the farm and an attack of distemper practically puts them out of the field through the very busiest part of the season. A cure which has proven its value through a test of more than a dozen years is Craft's Distemper Cure, as advertised on page 22. It is sold by dealers at fifty cents and \$1. It is manufactured by the Wells Medicine Company, 13 Third St., La Fayette, Ind. This firm will be glad to send three free horse books telling all about this distemper cure as well as several other valuable horse remedies.

Mehring's O. I. C's.

Mr. H. C. Mehring, of Manson, Iowa, makes a change in his advertisement on page 35 in which he announces that he has for sale some good O. I. C. boars of July farrow as well as Shropshire rams. In a letter containing the order for change of his advertisement, Mr. Mehring writes: "The spring crop of pigs is arriving daily and in fine shape. They are almost invariably strong pigs. The weather is certainly all that could be desired for the pig business. The July and fall boars I am offering for sale are sired by Worth Mathews and the spring pigs are by Alvey Whitefeather and Don Onward. I am ready to book orders for spring pigs and can ship single pigs, pairs or trios, as buyers may wish."

Frank Iams, the Live-wire Horseman.

Mr. Frank Iams, the noted draft horseman, of St. Paul, Neb., has not yet sold out his entire offering, but they will not last long if his present rate of price-cutting continues. Concerning his offering, Mr. Iams says: "Frank Iams, the 'live-wire horseman,' is using the 'big stick'—cutting prices on his 'eighty show and business stallions.' He has opened up a 'new barn' of forty 'show stallions' (not offered or seen by the public before), all 'gold medal winners' in Europe; also forty 'business stallions,' selected for 'show horses' in 1910. They are 'peaches and cream-top notchers,' and the best bunch of Percheron and Belgian stallions in the United States. These stallions will positively be sold in 'next sixty days,' at lowest prices ever offered for real 'show stallions.' Iams has 'lifted the lid' and 'reduced prices \$290 to \$500' on 'show and business stallions.' Iams' forty prize medal winners at 'Paris and Brussels and leading European horse shows,' and all his largest and best stallions are still in 'Iams' big barns'—fully acclimated and all in the 'pink of condition' and must be sold. 'Key boys,' get into Iams' 'money-saving game.' Buy a stallion and save \$1,500. Iams 'tickles' buyers with 'rippers' at 'let-live prices.' Owing to bad crops, panic, Iams' cash, his twenty-eight years' successful business, he bought and sells horses cheaper than ever. Mama, Iams is a 'hot advertiser,' but he 'has the goods' and sells horses at his barns only. Buyers get the 'middleman's profits' at Iams'. Iams has eighty Percherons and Belgians, two to six years old, weighing 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent on stallions. All registered and branded. Iams sells choice of all his 'show and business' stallions at \$1,000 and \$1,500 (bar four), so good they need not be 'peddled' or put on the 'auction block' to be sold. Iams' 'selling clothes' fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance. Buy 'show stallions' of Iams at same price others sell 'culls.' Ikey, what a 'graft' these 'stallion' salesmen are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no salesman's word. 'Iams has the goods you read about.' His establishment is worth going 2,000 miles to see. Iams 'saws wood,' 'butts in,' sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His 1,200 stallions are very much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the language, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the

FALL BOARS FOR SALE

BY O. & I. 82341, a line bred Col. and Protection boar of show yard quality; dams by Buddy K. IV. and Ambition. A few fall gilts, either open or will breed them. Also have 3 Scotch-topped Double Standard Polled Durham bulls for sale. Please mention The Homestead. Address

MENAUH BROS. - MAZON, ILLINOIS.

ELK CREEK SHORT-HORNS

Five good bulls for sale, sired by Jolly Hampton, Custer Butterfly and Crimson Scot. Good colors and good individuals. Prices right. Auto phone 1902. Address

S. A. Nelson & Sons, Malcolm, Neb.

FOR SALE—20 FALL SOWS

Bred to the champions, B. & C's Col. and Crimson Wonder III. They are sired by B. & C's Col., Col. S. and McNeil's Model. Price \$50 to \$65. First come, first served. Address {Ed. A. Baxter, Pawnee, Illinois. R. L. Comer, Carlinville, Illinois.

Good Red Short-horn Bulls

A DOZEN Scotch and Scotch-topped bulls, 10 to 24 months old, some good enough for the best herds, others suitable for farmers. Sires Courtier 5th 277599 and Baron Secret 2d 289279. Address

OWENS BROS. - HOMESTEAD, IOWA.

GOOD RED SHORT-HORN Bulls

FOR SALE. Sired by Knight Commander, he by the great March Knight; also a limited number of choice females. Get my prices before buying. HENRY P. McCARTNEY, YORK, NEB.

CHOICE RED POLLS FOR SALE

SINGLY or in car lots. Best of breeding, good individuals and splendid milkers. These cattle are priced to sell. Wendell Heil & Sons, Cedar Creek, Neb.

O. I. C. Fall boars and gilts for sale. Sired by Highland Teddy; first at Des Moines in 1908. Address Allen Bros., Russell, Iowa.

Judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by half a million dollars. Write for million-dollar horse catalog, greatest on earth. References: First National Bank and Omaha National Bank, Omaha, Neb.; St. Paul State Bank and Citizens' National Bank, St. Paul, Neb.

W. A. Fell Offers Duroc Boars.

On page 35 of this issue of The Homestead will be found the advertisement of Mr. W. A. Fell, of Cambridge, Ill. He is offering Duroc males of choice breeding ready for immediate use. These pigs are of September and October farrow and are by Rose Chief by Belle's Chief by Ohio Chief, dams of Proud Advance and Pilot Wonder breeding. Rose Chief is an extra good male and has size and quality combined. He has been shown at county fairs and won first and champion over animals that were shown at the Iowa and Illinois State Fairs. While these boars are not fat they are in good breeding condition and are large enough for service. Should our readers need a boar at once, it would pay you to write Mr. Fell at once.

Fessenmeyer's Great Poland China Offering.

On this page of this week's Homestead Mr. H. Fessenmeyer, Clarinda, Iowa, is making an interesting offer to Poland China breeders and also to farmers who are now wanting to buy big-type Polands. Inasmuch as he will not make a fall sale, he has decided to sell spring boars and gilts sired by his noted herd boars at \$25, the same to be delivered at eight to ten weeks of age. It will be remembered that at the head of the Fessenmeyer herd stands the noted big-type boar, A. Wonder 47460, unquestionably one of the greatest boars of his type now doing service in this country. This boar formerly headed the Will Wheeler herd of Mastodon Poland Chinas at Harlan, Iowa, and Mr. Fessenmeyer purchased him at the latter's closing-out sale last winter. He is the most widely advertised big-type boar today in the United States and his get are always in demand. Mr. Fessenmeyer is breeding eight or ten sows to him for September farrow and he is going to sell these at private sale. Here will be a great opportunity to buy a sow bred to this noted boar and you don't want to delay too long in sending your order to Mr. Fessenmeyer. The other boars used in the herd are Chieftain 51221, a son of Chief Tecumseh 4th, out of Giantess Again and Big Price 40065, a son of the celebrated Pawnee Lad

BROOKMONT HEREFORDS



IMP. MARCH ON 76035, Father of All March Oms. NOW IN BROOKMONT HERD.

A. E. COOK - - - ODEBOLT, IOWA.

THERE is at all times to be found at BROOKMONT a supply of HEREFORD bulls, cows and heifers suitable for foundation material. They have breeding and individual merit that can not be bettered anywhere and will be sold at very reasonable prices. They have health and thrift and are guaranteed free from tuberculosis.

and out of Matchless Giantess. The spring pigs that he is now advertising for sale are sired by these two boars and also by Missouri Lad, a son of Big Prospect, and Model Chief, a son of Blue Valley Chief. The breeder or the farmer who is now wanting a herd boar this fall of the big-type kind or a few good gilts will never have a better chance to buy them and buy them right than they will right now. In buying them now they can grow them out themselves and save paying a long price for them in the fall. Mr. Fessenmeyer has issued a private sale catalog which he will forward to every breeder and farmer who will mention The Homestead when writing for it. In it will be a large picture of the great boar, A Wonder, together with his breeding and other information regarding this great big-type herd.

Fox River Valley Guernsey Sale.

In their first annual sale, which will be held at Appleton, Wis., on May 19th, the members of the Fox River Valley Guernsey Breeders' Association will offer for sale thirty grade and sixty pure-bred Guernseys. In making this initial offering the breeders have been particularly anxious to put up a decidedly high-class representation of the breed. Not a few of the animals trace directly back to some of the greatest animals ever raised on Guernsey Island. It is anticipated that the five-year-old cow, Masherette, will prove a stumbling block for many of the breeders. She has the reputation of being a model dairy animal. As a two-year-old she produced 287 pounds of fat and since that time has been coming forward all the while. She was sired by Imp. Masher Galore and out of Imp. Caroline Cartaret. Ellalee of Paxtang 760 will also prove an attraction on sale day. As a two-and-a-half-year-old she produced 7,272 pounds of milk and 339 pounds of fat. On her sire's side she goes back one generation to Sir Fantine, the sire of Primrose of Salem, Countess Fantine, Sukine and Sir Galore. Anyone conversant with Guernsey breeding will at once recognize the excellence of this pedigree. The four members of the Fantine family mentioned have won a reputation which abundantly supports the claims of the family to prominence. Ellalee of Paxtang is, on her dam's side, a granddaughter of Glenwood Boy of Hadden. The mere mention of the name of this great sire calls to mind such animals as Dairymaid of Pinehurst, Selma of Pinehurst, Sunbeam of Paxtang, Wawa Maid and numerous other daughters of this great bull. It will be remembered that Dairymaid of Pinehurst has led and is still leading the Iowa Dairy Contest. A choice, short yearling heifer which will be found in the sale is Percy, which is quite strong in the blood of Glenwood Girl and Penwyn. Percy is a beautiful heifer and we anticipate that her appearance in the sale ring will be the signal for a spirited contest. The daughter of a full brother to Dairymaid of Pinehurst, Flora of Fritzlyn by name, presents another line of breeding which will be hard to turn down. One of the great sires of the breed was Governor of the Chene. As a show bull he was in a class by himself and as a sire of producers he has similarly demonstrated his ability, having sired a goodly number of big producers. One of his daughters, Bessie 3d of the Vanquedor, will be in the sale. Dr. O. N. Johnson, secretary of the association, will also present the noted cow, Imp. Milford Lassie 2d. She, it will be remembered, was the dam of Milford Lassie's 2d Anchor, which headed the first-prize exhibitors' herd at St. Louis in 1904 and the get of which won as young herd and get of sire at Syracuse, N. Y., and Richmond, Va. Fairs in 1908. Dr. Johnson's cow is a large, roomy specimen and will likely go to someone who is looking for a useful one. Imp. Emperor's Harvest and Golden Masher are the names of the two bulls which one of the breeders has promised to sell. The first named sire traces to show stock and Golden Masher has a pedigree too well known to Guernsey breeders the world over to require extended comment. He is a son of Imp. Masher Galore and a grandson of Imp. Masher's 2d and a great grandson of Island Champion. On his dam's side he is a grandson of the same bull and traces through three lines to the noted bull, Washer. The Masher blood is today in

LIVE STOCK AUCTIONEERS.

CAREY M. JONES, Live Stock and Real Estate Auctioneer,

2856 Washington Blvd., Chicago, Illinois.
Phone West 1228.

If you want to buy or sell a Farm, City Property or Subdivision, no matter where located, write for terms and dates.

R. W. Mitchell, Albany, Mo.

Live Stock and Real Estate AUCTIONEER

EIGHTEEN years' experience. Write me for dates. Copies of my live stock poems free when stamp is enclosed. Am booking fall, winter and spring dates.

N. G. Kraschel HARLAN, IOWA.

Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.

J. L. McILRATH GRINNELL, IOWA.

Live Stock Auctioneer

Breeder of registered Belgian horses. Ask my customers. Write me.

GEO. B. BUCK

AUCTIONEER AND EXPERT JUDGE. Have judged at Illinois and Iowa State Fairs. Have sold for the best breeders of the central West the past three years and have them rebooked. Posted on pedigrees and values. Sales made anywhere. Terms \$20 and expenses. I always deliver the goods. Write me for dates at Sunny Hill, Ill.

LEARN AUCTIONEERING

And make from \$10 to \$50 per day. We teach by mail or here in school. 121 students attended January term 1910. The largest school of the kind in the world. Free catalog for either course. Which do you want?

MISSOURI AUCTION SCHOOL,
W. B. Carpenter, Pres., Trenton, Mo.

A. C. Manifold Auctioneer

Tarkio, Mo. Pure bred sales specialty

W. D. STOLLER, Auctioneer

Live Stock a specialty. Address R. 6, Vinton, Ia.

When writing to advertisers please mention this paper.

much demand and we anticipate keen rivalry over the ownership of this bull. He is, of course, a half-sister of the cow, Masherette, mentioned earlier in these comments. Catalogs containing full information concerning the offering of the Appleton breeders will be ready for distribution within a few days. Readers may obtain these by writing Dr. O. N. Johnson, Appleton, Wis. Please mention The Homestead.

Fred H. Rankin, director of extension work in the University of Illinois, declares that in his opinion "no teacher or preacher should attempt to manage a country school or country pastorate until he has some knowledge of the affairs and problems with which the people have to deal," and believes that these teachers and preachers would do well to receive at least a part of their education at the agricultural college.

PUBLIC SALE OF CANNA HILL SHORT-HORNS

Scotch and Scotch-topped
at Canna Hill Stock Farm

Corydon, Ia., Friday, May 20, '10

45 HEAD---22 HEAD OF COWS AND HEIFERS, 15 CALVES AT FOOT, 13 BULLS, including 45 CHAMPION COMMODORE 287299

Red, little white; calved October 10, 1906. Bred by Cookson Bros., West Branch, Iowa. Owned by W. E. Cutler, Corydon, Iowa.

Got by Young Commodore 203988, Cookson & Sons
Imp. Scarlet Bangle.....Knt of Strathlogie 2d 164699, J. Wilson
Imp. Silver Bangle.....Violet Boy 157951.....Wm. Duthie
Silver Bracelet.....Mandarin 157933.....J. L. Reid
Short Tail.....Bannockburn 144885.....J. Bruce

This splendidly-bred Broadhocks bull, possibly one of the best ever bred by Cookson Bros., and used with the greatest success in my herd, will be sold in my sale. He is a great proposition for the man that is seeking a herd bull.

THIS is one of the best offerings of Short-horns to be sold in southern Iowa this year. The Scotch families represented in my sale are Cruickshank Victoria, Orange Blossom, Duchess of Gloster, Lavender, Broadhocks, Fleur de Lis and Rosemary. The Scotch-topped sorts are also well represented in this sale and most of the females will have calves at foot by Champion Commodore. I am also selling this splendid Broadhocks herd bull as well as a splendid lot of young bulls. This is one of the best places in the state to buy good cattle at your own price and I extend to you a special invitation to attend my sale. Catalog now ready. Kindly mention this paper when writing for it. Address

W. E. CUTLER, CORYDON, IOWA.

Cols. Geo. P. Bellows, Auct. Fennel Bros., Assistants. Free conveyance from Chariton or Corydon. Parties coming to Chariton should stop at Bates House at my expense or at leading hotels in Corydon.

LIVE STOCK AUCTIONEERS.

The National Auctioneering School of America

ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

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Live Stock Auctioneer.

Cattle Sales a
Specialty.....

Write for Dates and Terms.

C. G. EVANS

North English, Iowa.

Live Stock AUCTIONEER

SALES made anywhere. Reasonable terms. Have pleased others; can please you.

Write for Dates.



PLINY NICHOLS WEST LIBERTY, IOWA.

Live Stock Auctioneer

SALES made anywhere. Reasonable terms. I also breed Poland Chinas and Short-horns.

ELWOOD J. PITTMAN STERLING, ILLINOIS.

Fifteen years' experience
selling live stock.

Write for Terms and Dates.



O. L. MOSSMAN, MASON CITY, IA. LIVE STOCK AUCTIONEER

Thoroughly posted as to pedigrees and values.
Write for dates. Terms reasonable.

H. L. Igleheart

Glendale, Kentucky.

Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

LIVE STOCK AUCTIONEER

SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed. W. F. STRATTON, CAMBRIDGE, IOWA. Breeder Short-horn cattle and Duroc Jersey swine.

W. K. HENSS, WAYLAND, IA.

LIVE STOCK AUCTIONEER.

YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

Geo. W. Dykes Live Stock Auctioneer.

DANA, ILL.

SILAS IGO, Indianola, Iowa

Live Stock Auctioneer. Write me for date.

LIVE STOCK ARTISTS.

A. V. LOCK, REMINGTON, INDIANA.

Live Stock Artist. Write me.

POLAND CHINA SWINE.

PROUD TECUMSEH 101353 FOR SALE

I AM offering the above 3-year-old hard boar for sale; also 18 fall boars and gilts at bargain prices. Address Herman Baltz, Fremont, Neb.

FALL BOARS FOR SALE

I am now offering some splendid fall boars for sale; also 18 fall boars and gilts at bargain prices. Address Herman Baltz, Fremont, Neb.

POLAND CHINA SWINE.

MONDAMIN BROOD SOWS

POLAND CHINA sows that will suit buyers. We can suit you in price as well as quality. Large, stretchy gilts sired by our great herd boars, Thickset 2d and Dark Corrector. We also offer mature sows bred to those boars. Write us about Short-horns of either sex; we have them for sale. Free telephone connections with Sioux City over Auto 8-L-9. Bell telephone from Hutton. **HELD BROS., HUTTON, IOWA.**

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A FEW more tried brood sows and fall yearlings, and 25 spring gilts, bred to farrow in April and May. They are extra good ones. Also spring and fall boars. Blood of Hadley, P. W. Giant, Jumbo and Victor. Reasonable prices. Address **F. W. MCINTYRE, Route 5, RED OAK, IOWA.**

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Fall pigs sired by COL'S KING out of dams by Arthur's Choice, Proud Advance, Inventor and Tokio Paul. I will be away from home until April 1st, so do not write me until that time.

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20 Duroc Gilts Bred 20 AT PRIVATE TREATY

Sired by King of Cols. 2d and G. C.'s Col. Bred to Elder's Wonder and F. E.'s Col. Also choice summer boars by same sires.

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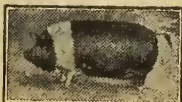
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Special offering now 128 gilts, 9 to 12 months, guaranteed safe, due last of March to June, now ready for shipment; weight 200 to 375 lbs., prices 1. c. b. \$40 to \$75 each, depending on size, quality, age and date of breeding. Also 20 sows of fall litters at \$25 each. Order early, as demand was never so strong.

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WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**



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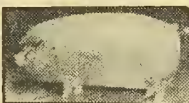
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WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

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FOR SALE—Extra good ones, sired by Buster 19085. A son of Combination out of daughters of the noted prize winner, Modeller. Prices reasonable. **John F. Holst, Jr., Denison, Iowa.**

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A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and Bred to Narcissus King, singly or by carload. You will buy if you see them.

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**A. R. O.
26.75 Lbs.**



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2 HEREFORD BULLS 2

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HEADED by the show bulls, Dictator 3d and Ned of Red Cloud. Cow herd contains such specimens as Meg Harden, Ida 3d of Otee and other cows equally well known. Write your wants; we can suit you. A. G. Abney, North Loup, Valley Co., Neb.

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HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address

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THE PROPERTY OF MARVIN & DURRETT, PANES DEPOT, KY.

TEN BULLS AND FIFTY COWS

OF the four most fashionable families—Blackbirds, Trojan Ericas, Pride of Aberdeen and Jilts. This is the first time in the history of the breed where so noted a herd has been dispersed that have only four of the most fashionable families to sell. From some one of these families there has been produced and developed into supremacy, many noted animals, and if cared for will do the same for their new owners. Many herd headers and many of the great prize-winners have come from this herd. It has taken brains and lots of hard labor to build this herd to its high standard of excellence. The Blackbirds are of the Blackbird 2d branch and are closely related to some of the champions of the breed. The Trojan Ericas are the closest to the Ballindalloch Ericas that have ever been sold in America. The Pride of Aberdeen are of the most aristocratic families of the noted breed. Kimona was bred by the late Sir George M. Grant and she has eight descendants in the sale. The Jilt family has been lately revived and now it is impossible to buy one in Scotland at any price. Many of the cows will have calves at foot and rebred again. All the heifers that are old enough to breed will have been bred. This is a golden opportunity to buy the best that can be had. Buy now and do not wait to get them cheaper as all kinds of beef cattle will be selling for double the price before twelve months. The beginner who buys cattle in this sale will never regret it, for he will never have to start over. The bulls are most all last year's crop and they are a very promising lot. Heatherman 2d has been used in the herd for the past two years and he has not only proved himself a great sire but he has developed into a high-class individual, he is a herd header of the first water. We have cattle to please the most fastidious breeder, the old breeder, the new beginner and the farmer and I cordially invite all to attend this sale. Auctioneers: Igo, Binnie and Reppert. Send for a catalog and kindly mention The Homestead.

MARVIN & DURRETT, PAYNES DEPOT, KY.

M. A. JUDY, SALE MANAGER, WEST LEBANON, INDIANA.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Donohoe, of Holbrook, Iowa, and C. Leahy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jan and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thickett Blackbird. 10 young bulls by Glenfoi Thickett, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfoi Thickett, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Herdsman.

INVERNESS ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize 33737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, - IOWA CITY, IOWA

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by Imported Ideal of Stranden 28158 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. R. Wilkinson & Sons, Mitchellville, Ia.

Aberdeen Angus Bulls for Sale

I HAVE a splendid 2-year-old Trojan Erica, a 2-year-old Blackbird and Pride bull. Also Queen Mothers and several younger bulls at bed rock prices. John H. Fitch, Lake City, Iowa.

ANGUS BULLS, COWS AND HEIFERS

THREE bulls for sale; also three bull calves, dropped last August and Sept. They are sired by ton bulls and out of one of the beefiest cow herds in the state. My cattle have size, breeding, quality. Call on or address A. G. Messer, Grundy Center, Ia.

HIGH-CLASS ANGUS BULLS FOR SALE

WE are offering a splendid 2-year-old, double-bred Blackbird bull for sale; one excellent Gilt bull; 3 Prides and several others. These are good bulls, and our prices are bed rock. Isenbarger Bros., Battle Creek, Iowa.

ALFALFA HERD ABERDEEN ANGUS

Ericas, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

CARLOAD Angus Bulls

SURED by Scottish Hero 52494 and Glen's Prileno 91606. In ages from 10 to 20 months, in good, useful condition for the buyer. If you want bargain prices on bulls write me.

JOHN E. GRIFFITH, - IOWA. WASHINGTON

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equester; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

HORSES AND JACKS.

PERCHERONS AND BELGIANS

I have six stallions that I imported myself, two to five years old, that I will sell at a very low figure to close them out. If you would buy a stallion at any price write me.

W. J. BUTLER, R. 29, OTTAWA, ILL.

MARES FOR SALE

The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an International winner, and one imported Hackney mare, both with foal. Also one first-class Short-horn bull. Address

DIVISION OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

Percheron Stallion Wanted

I WANT a good Percheron stallion, two years or over. Want to pay all or part in well-bred Aberdeen Angus cattle—good ones.

H. L. M. BRUNER, TOLEDO, IOWA.

BELGIAN, Percheron and Shire stallions. I am selling imported horses from \$500 to \$1,000; home-bred, \$300 to \$650. Frank L. Stream, Creston, Iowa.

HORSES AND JACKS.

HART BROS.

IF YOU WANT TO BUY A GOOD

STALLION OR MARE

with a good guarantee, write or visit Hart Bros., Osceola, Iowa. We have been importing for many years and we will sell you a better imported horse for \$1,000, or a better home-bred horse from \$300 to \$600, than you can buy elsewhere for the money. We buy our horses direct from the breeders in Europe, and buy the best of each breed that money and experience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.



perience can buy, with extra quality and great weight, selected by a member of the firm who knows just what the American farmer needs. We now have 100 head of imported and home-bred stallions of serviceable age. Percherons, Shires, Belgians. Also have imported and home-bred Percheron and Belgian mares for sale.

HART BROS., OSCEOLA, IA.

Horse Breeders

Artificial MARE IMPREGNATORS

WE GUARANTEE you can get from 2 to 6 mares in foal from one service of stallion or jack. Increase the profits from your breeding stables by using these Impregnators. No experience necessary to use them successfully. Prices, \$3.00 to \$5.00 each prepaid.

Popular SAFETY IMPREGNATING OUTFIT, especially recommended for impregnating so-called barren and irregular breeding mares, \$7.50 prepaid.

Write for CATALOGUE which illustrates and describes our Impregnating Devices, Breeding Hobbles, Stallion Bridges, Shields, Supports, Service Books, Etc. CRITTENDEN & CO., Dept. 48, Cleveland, Ohio.

Increase Your Profits

FOR SALE

2 Percheron Stallions

And several choice driving horses. One of the stallions is an imported horse and the other is American bred. They are good individuals with plenty of bone, size and style. Are sound and good breeders. Will be priced to sell at figures that will suit anyone wanting a stallion. Now is the opportunity to buy right. Address.

A. H. Brett, 426 W. 4th St., Mason City, Ia.

A. H. Brett and G. O. Gould, 723 N. Mich St.

Phone No. 1213. Mason City, Iowa.

AT LOW PRICES

BELGIANS PERCHERONS

GERMAN COACHERS

A. R. IVES, DELAVAN, WISCONSIN.

PRIZE BELGIAN

IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.

I HAVE THE LARGEST JACKS

IN the world, in both imported and home-bred. I have sold over seven hundred jacks from my farm here, and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy. W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia. Register your jacks in the American Jack Registry. Write for blanks.

Clydesdale Headquarters

McLay Bros., JANESVILLE, WIS.

NEW IMPORTATION—18 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine International shows than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

FRANK L. STREAM, Creston, Iowa.

SHIRES, Percherons and Belgians! Best imported horses, \$1,000 each; home-bred, \$250 to \$750; also Percheron mares. A. Latimer Wilson, Creston, Ia.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.

HORSES AND JACKS.

DRAFT HORSE HEADQUARTERS OF IOWA IS AT GREELEY



OUR NEW IMPORTATION OF 75 STALLIONS 75

Reached our barns at Greeley, August 9th. The shipment is composed chiefly of Belgians and Percherons, with a few Shires and Coachers, ranging from two to five years of age. We will make another importation in December. You are invited to visit our barns and inspect the horses.

W. A. LANG & COMPANY, GREELEY, IOWA.

BELGIAN EMPORIUM OF AMERICA

Our first importation for 1910—20 head of the cream of Belgium—arrived February 17th; our second importation of 1909, sixty head, arrived August 10th; our third importation for 1909, thirty head, arrived December 8th. So we now have by far the largest collection of high-class Belgian

Stallions and Mares

In America, we have five barns full. Our show record of previous years and hundreds of testimonials from old customers, prove the quality of the horses we have handled in the past. Those now on hand are as good, if not better than ever before. We are eight miles west of Cedar Rapids, on the C. & N. W. and C. M. & St. P. railroads. Telephone from Cedar Rapids for team to meet electric car at Lefebure crossing. Electric cars run every hour. Send for catalog.



HENRY LEFEBURE, FAIRFAX, IOWA.

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST OF THE HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.

100 RHEA BROS.' 100
ACCLIMATED PERCHERONS

You may say, "This little 'ad' looks cheap, offering so many good horses." Well, friend, it is cheaper than a larger space. That is why we use it. The buyer pays for it. Remember that. You who have seen our horses at the State Fair for years, know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited 3-year-old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France, and our horses stood first, third and fifth. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished. Write today or come to

ARLINGTON, NEB., on main line C. & N. W. R. R. 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

Imported Percherons, Shires, French Coachers
STALLIONS AND MARES

\$1,000 IS THE PRICE ON STALLIONS FOR NEXT THIRTY DAYS \$1,000

Mares bred to the Champion, CARNOT 66666. Come and see them.

S. J. MILLER, KIRKSVILLE, MISSOURI.

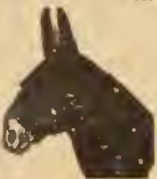
FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 Jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri Jacks—the best that grow—14½ to 16 hands.

Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop.,
KOLIA, MO. Pike Co.

Percheron Stallions Imported and home-bred that have size, bone and quality. Prices and horses to suit you. 22 years breeder. Will F. Hooker, Northboro, Page Co., Ia.



MAMMOTH JACKS

WE make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON,
BATAVIA, IOWA.



CLYDESDALES AND PERCHERONS—Imported and home-bred. A select lot of stallions and some extra choice mares. Prices right. Address R. O. MILLER, Route 1, LUCAS, IOWA.

HORSES.

FRANK IAMS'

"Selling Clothes" will fit all stallion buyers, prices reduced \$200 to \$500 on "Show Stallions." Iams has all his Prize Winners and largest horses still on hand. His 1910 "Imported Show Stallions" have all competitors "Skinned to a frazzle." They are "fully acclimated" and in the "pink of condition." All imported September, 1909. They are "Live wire business propositions" that "knock the persimmons" on a "wide-awake horse buyer's Easter hat." Iams' "Peaches and Cream" Imported stallions are "Eye-openers," "Big Diamonds" (compared with others). His barns are full of "Top notchers" and at "bargains" and all must "positively be sold" in the next 60 days.

IAM'S NEW BARN OF 40 PRIZE MEDAL WINNERS

at Paris and Brussels and leading European Horse Shows just opened up. "All" his "Show Stallions" and largest stallions are yet in his barns and must be sold by June 1st. "Ikey Boys," get into Iams' "Money-saving game." Buy a stallion and save \$300. Iams "tickles" Buyers with "Rippers" at "Let-Live Prices." Owing to bad crops, panic, Iams' cash, his 28 years' successful business, he bought and sells horses cheaper than ever. "Mamma," Iams is a "Hot Advertiser," but "he has the goods" and sells horses at his barns only. Buyers get the "Middleman's profits" at Iams'. Iams has

60---PERCHERONS AND BELGIANS---60

two to six years old, weighing 1,700 to 2,500 pounds, 90 per cent blacks, 50 per cent ton stallions, all registered and branded. He sells Choice of his prize winners cheaper than others sell culls, "at \$1,000 to \$1,500 (Bar 4)" so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance. \$1,000 saved at Iams'. Ikey, "What a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000. Mr. Buyer, see Iams' stallions yourself. Take no salesman's word. Iams has the goods you read about. His establishment is worth going 2,000 miles to see. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. "Big Bill," buy a stallion of Iams. His \$1,200 stallions are very much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from the breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better

Imported Stallion at \$1,000 to \$1,500

than are sold to stock companies for \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams guarantee is backed by half a million dollars. Write for Million-Dollar Horse Catalog, Greatest on Earth. References: First National Bank, Omaha National Bank, Omaha, Neb.; First State Bank, St. Paul State Bank and Citizens' National Bank, St. Paul, Neb.

ST. PAUL, NEBRASKA

Percherons, Belgians and Shires

DON'T be deceived by a page of advertising. Better find your glasses. Look for the medium-sized advertisement and buy your next railroad ticket to Fremont, Iowa. There is where some of the most critical buyers wind up at when looking for size and quality, (in both stallions and mares). Fremont is on the main line of the Iowa Central R. R. from Albert Lea, Minnesota, to Peoria, Illinois; and the C. B. & Q. Ry. from Burlington, Iowa, to Oskaloosa, Iowa.



E. J. Heisel, Fremont, Mahaska Co., Iowa.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

80 IMPORTED and recorded home-bred Percheron and Shire stallions and mares for sale. There are more importers and breeders of horses at or near Creston than any place in America, and I will sell you a better horse for less money than any of them. Address GEORGE W. BILBO, CRESTON, IOWA.

Percheron Stallion for Sale
BLACK, coming 3; will easily weigh a ton at maturity. Sired by 2,200-lb. Ackbar dau, one of best mares in Iowa. Also straight Scotch Short-horn bulls. Low prices for quick sales.
L. A. MATERN, - WESLEY, IOWA.

HORSES.

1878 **TRUMANS' CHAMPION STUD** 1910**100 SHIRE, PERCHERON, BELGIAN AND HACKNEY STALLIONS****SPECIAL PRICES FOR 30 DAYS. THIRD IMPORTATION FOR 1910 ARRIVED MARCH 14th.**

It has NOT BEEN NECESSARY for us to ABANDON SHIRES BECAUSE WE HAVE ALWAYS IMPORTED the RIGHT KIND and we have ONE OF THE BEST JUDGES of DRAFT HORSES in ENGLAND, J. H. TRUMAN (Founder of our Firm), as RESIDENT BUYER. HE KNOWS the BEST ARE NONE TOO GOOD for the AMERICAN FARMER, and BUYS only THOSE STALLIONS that he PERSONALLY KNOWS to be GOOD, SAFE BREEDERS (excepting colts). THIS is the REASON WE are the LARGEST IMPORTERS of SHIRE HORSES in the WORLD and have made a SUCCESS OF OUR BUSINESS. TRUMANS' SHIRES COST YOU NO MORE THAN THE CHEAP KIND.

50 IMPORTED SHIRE MARES FOR SALE. Address for 1910 catalog and other information, mentioning this paper when writing

TRUMANS' PIONEER STUD FARM, BUSHNELL, ILLINOIS.**STALLIONS AND MARES**

I HAVE on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gambrel and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I also have forty big imported mares, all in foal, for sale.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.**Special Announcement of Our Second Annual 30-Day Sale**

ON

STALLIONS and MARES

AMERICAN-BRED Percheron mares from \$350 to \$600; imported Percheron mares from \$600 to \$700, ages from 2 to 4 years, weighing from 1,700 to 2,000 pounds. All registered in P. S. of America. We have some extra good imported Shire mares with size, bone and quality—International winners—at very low prices. The above mares are guaranteed sound and satisfactory brood mares, most of them being heavy in foal. A choice selection of American-bred Percheron stallions, 2 and 3 years old, from \$500 to \$800. Our imported Percheron, Belgian and Shire stallions are the large, ton, drafty kind, with plenty of bone and quality. All of them will be priced so as to move them quickly. All stallions guaranteed sound and 60 per cent breeders. We are making these extremely low prices for the next thirty days to make room for our new importation of 60 head of Percheron stallions and mares that will land here April 20th. Therefore, if you want a real bargain in a first-class animal of either sex come at once and get your choice. Our motto:—honest treatment, square dealings, best terms and best guarantees. Write our Home Banks for reference. Homewood is on the main line of Big Four and I. C. railroads, 23 miles south of Chicago; Suburban trains hourly; Bell phone, Homewood 204.

S. METZ & SONS, Homewood, Ill., or Abilene, Kan.**NOW IS YOUR OPPORTUNITY**

TO OBTAIN A FIRST-CLASS, IMPORTED

PERCHERON, ENGLISH SHIRE OR BELGIAN STALLION

At prices never before duplicated by any importing establishment in the United States, breeding and quality considered. 60 head on hand to select from, including a new importation just received March 10th. We give you a straight 60% breeding warranty without any ifs or ands attached to same. Visit our establishment, inspect our stallions, and we feel assured you will purchase one of our horses. If you have not received our new catalog, drop us a line for one. It is free for the asking. Our office is located in the Lincoln Hotel Building.

Watson, Woods Bros. & Kelly Co., Lincoln, Neb.**Percheron, Belgian and Shire STALLIONS AND MARES**

WE are now offering a choice lot of big, sound, clean stallions, mostly two-year-olds, the low-down, heavy-boned kind. Don't buy until you have seen our horses; we can save you money. Out of eight horses shown at the International, we won seven prizes: First and reserve championship on Shire two-year-old stallion, first on Shire three-year-old mare, first on yearling Percheron stallion, first on yearling Belgian filly, second on Belgian stallion, second on Belgian mare four years old and third Belgian mare three years old.

PETER HOPLEY & SON - LEWIS, IOWA.**GREELEY HORSE IMPORTING COMPANY****WORLD'S GREATEST IMPORTING ESTABLISHMENT**

**Percherons,
Belgians,
Shires,
German and French
Coachers,
Hackneys.**

**500 STALLIONS IMPORTED IN 1909**

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

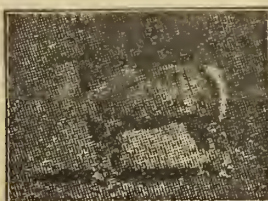
We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

A. B. HOLBERT, Greeley, Ia.**OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER**

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**

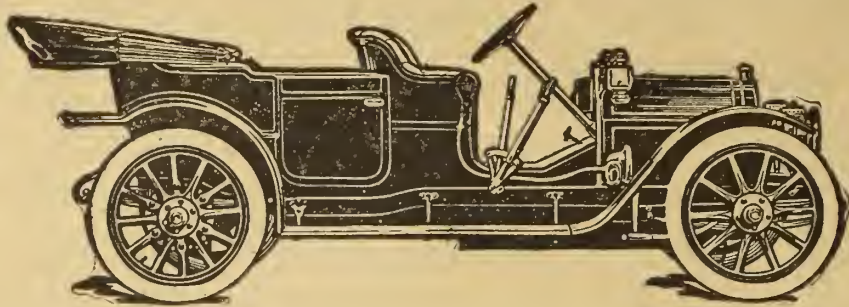
**PERCHERONS AND PERCHERONS ONLY****ERNEST L. HUMBERT & SON, CORNING, IOWA,**

ARRIVED home with their twenty-ninth annual importation of Percheron stallions this year. 80 HEAD STALLIONS and MARES now on hand. We can sell you a good horse for less money because we are natives of France and buy our own horses without the aid of an interpreter. Write, or come and see our horses. Be sure to see OUR Percherons before buying. Telephone service. Their 1909 importation arrived November 18th. Ernest L. Humbert & Son, Corning, Ia.

When Writing to Advertisers Please Mention This Paper

Chalmers "30"
\$1500

Touring Car
Roadster
Pony Tonneau (\$1600)
Inside Drive Coupe (\$2100)
Limousine (\$2750)



On the radiator

We Enter Our Cars in Races Merely to Test and Prove Them

*In two seasons of motor contests Chalmers Stock Cars
have won 89 firsts, 32 seconds and 21 thirds*

We do not make racing cars but we win most of the races we enter.

We do not make special hill-climbing cars—yet we win most of the hill-climbing contests we enter.

We *do* make all-round cars that will win races, hill-climbs or endurance tests. In other words, they are right in every particular—made right by repeated tests in all three requirements of power, speed and durability.

Chalmers-Detroit Cars

are strictly "cars for the road."

Although last year we spent many thousands of dollars in automobile contests, *one-third of this expense was charged to advertising and two-thirds to engineering expense*—because this is the best experimental work we know.

In the past two years there have been in America six—and only six—great road races for light cars. Chalmers "30's" have been entered in all six and they have won *five firsts and one second and one third*. In no race did they fail to show. Here is the full story:

First and second in Jericho Sweepstakes, Long Island Motor Parkway, October, 1908.

Third in the 200 mile International Light Car Race at Savannah, November, 1908.

First in the Indiana Trophy race, June, 1909, when Matson averaged 51.5 miles per hour for 232 miles, making better time than the winner of the Big Car race of the following day.

First in the Santa Monica (California) 202 mile race, July, 1909, where it set a world's speed record for light cars of 55.5 miles per hour.

First in National Light Stock car event at Lowell, Mass., September, 1909. Driven by William Knipper 127 miles at an average speed of 52 miles an hour.

As a climax, this greatest of light cars, driven by Matson in the last Vanderbilt race, again set a new world's light car speed record by

averaging 58.5 miles an hour, winning the Massapequa Cup. Not once during the race did this car stop, and it defeated the nearest competitor by nineteen minutes.

The "Forty" won the Detroit Trophy in the 1909 Glidden tour—the longest and hardest touring contest ever held.

In the 200-mile road race over the Fairmount Park course in Philadelphia, the "Forty" defeated one 90 h. p. car, four 70 h. p. cars, seven 60 h. p. cars, and three 50 h. p. cars. It was beaten by only one car—a 90 h. p. giant, more than twice as big and twice the price, and then only by four minutes.

The "Forty" was awarded the "Consistency Prize" because it did not stop a single time during the race.

Bert Dingley has driven a "Forty" all the past season. Of the many road races he started he failed to finish in but one. On this showing *Motor Age* awards him the title of premier American driver of the year.

But the prospective owner may ask: what does all this mean to me?

It means simply that the Chalmers Motor Company has proved, for your benefit, that its cars are everything they claim they are—the best cars in the world at the price.

Every car the Chalmers Company has entered in an automobile contest has been **strictly a stock car**.

A 200-mile road race at sustained speed of 40 to 80 miles an hour puts a car to a severer test than the average owner could put it to in a whole year's use.

If there is a weak spot in a car it is discovered under the strain of contests, and the improvement is made.

Therefore—the **private owner is the one who gains most from our automobile racing**.

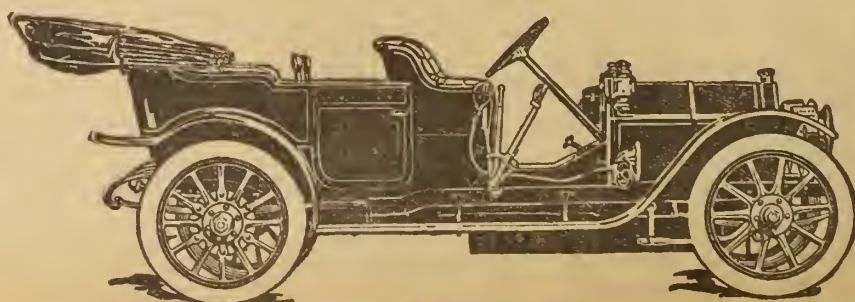
We shall be pleased to send you our handsome new catalog, showing our various models reproduced in actual colors, if you will mail the coupon.

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A Memo. to
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Please send me copy of "Flag to Flag" book, giving
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VOL. LV. NO. 22

DES MOINES, IOWA, JUNE 2, 1910

WHOLE NO. 2747



WHILE HIS CHUMS PLAY



DAIN The Lightest Draft Loader Proven by Actual Test

What's the use of pulling your horses down to skin and bones dragging a cumbersome affair that *doesn't get all the hay*. The Great Dain Hay Loader gets the hay, leaves the trash and is the lightest draft loader made. It is one thing to make claims, another to prove them—dynamometer tests have proven conclusively that the Dain Loader is the lightest draft. This has also been confirmed by thousands of farmers who have put the Dain Hay Loader to the most severe tests. More than that, it delivers the hay, without damaging, well onto the front of the wagon where it can be handled by the man that drives the team. It's the "one man" hay loader.

No return carrier to drag the hay off when it's once on—no freaky ideas—no experiments—no necessity of another man to "rake after."

How does it do it? Easy! Every stroke of the rake overlaps the one preceding, practically raking the ground twice. This is accomplished by a straight chain drive which enables the rakes to move over the ground more rapidly than the loader itself.

The Great DAIN Hay Loader

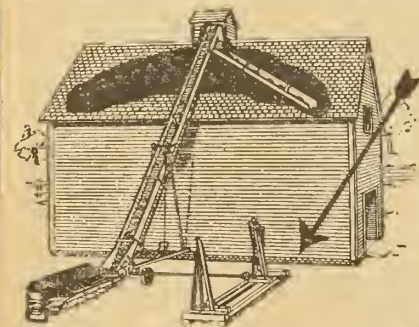
Is the standard by which all others are judged. That's because we are acknowledged specialists and build our hay tools on scientific principles that saves hay and gives it bigger market value. For instance, some loaders whip up the hay and knock off the tender leaves. The Dain picks it up gently from swath and windrow. The rake automatically adjusts itself to all grounds—skims lightly over stubble and bump, searches into every hollow. Another good thing about the Dain—the wheels are set underneath so it can go anywhere. And it's so constructed that it runs easier than any hay loader built. You can couple it up with a wagon of any height, and you can uncouple the loader without getting off the load.

Like all Dain Hay Tools—Mowers, Side Delivery Rakes, Stackers, Presses, this loader is built of best tested materials, is easiest to operate, simplest in construction, and handles hay as it ought to be handled. You should know more about it. Consult the nearest Dain dealer or tell us what hay tool you are interested in, and we will send complete information and valuable book—"All About Hay"—FREE.

DAIN MFG. CO. 806 VINE STREET OTTUMWA, IOWA



Special Features
No long crooked crank shaft; is operated by swiveling pitmans.
Patented hinged board at bottom to turn up for windrow.
Hinged tongue for coupling with any height wagon.
Geared to insure greatest hay-gathering efficiency.
Height of rakes can be regulated.
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Force delivery shoves hay well forward on load.
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Saves one man's labor every minute in use. Simple in design.
Made of the best materials by bay tool specialists.



There's the Difference

Our Hydraulic Jack

Saves all the trouble to be found in other grain elevators. No chain, ratchet or worm gear. Raises with less power; lowers without power.

The Camp Hydraulic Grain Dump and Elevator

The only portable grain elevator furnished with a HYDRAULIC JACK. We have manufactured a number of different styles of jacks during the many years we have been in business, but have finally decided to manufacture no other than the Hydraulic Jack. We guarantee it will raise a load with less power and can be handled easier than any other jack. It absolutely does away with all the disagreeable features found in other grain elevators. It can be stopped automatically, lowered in a few seconds without power, or placed at any desired position. It makes the Camp elevator the king of all portable grain elevators.

MORE MONEY AND LESS WORK FOR THE FARMER

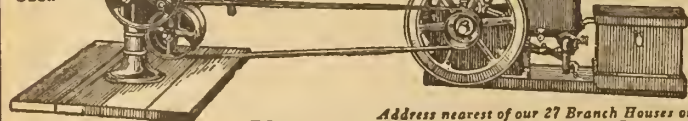
The progressive farmer of today—the one with a good head—is taking advantage of the short cuts made possible by modern inventions that save time and make farming less laborious. There is nothing cumbersome, complicated or unwieldy about a Camp elevator. It works perfectly, under all conditions and handles ear corn and shelled corn, oats, wheat, flax and all small grain. It is equipped with many different styles of elevators, spouts and conveyors which can be adapted to any building.

We have a very carefully prepared catalog, which will give you full information how to equip your barn or granaries for easily handling of your grain. This book is worth hundreds of dollars to the big corn raiser. A postal card inquiry will get it to your mail box in a few days. Can we send it?

Camp Bros. & Co., 96 Depot St., Washington, Ill.

Perfect One Horse-Power Engine At Last

It is the strongest and best small engine you ever saw. The work it will do will delight you—so easy to operate and to shift from one job to another. **The Jack Junior, a One Horse-power Marvel,** has horizontal evaporator tank which takes the place of water jacket and does away with the large water cooling tank required on other engines. Jack Junior is made of the highest grade materials with all working parts expertly machine finished. Four cycle, water cooled, make and break electric ignition. Uses gasoline or kerosene at less than 1 cent per hour. Jack Junior will pump water, run cream separator, milking machine, churn, washing machine, grindstone, small air compressor, lathe or band saw, small corn sheller or ice cream freezer—in fact, any machine not requiring over one horse-power. Jack Junior is mounted on wood base, complete with battery, all ready to run. Gas Engines from 1 to 500 H.P. Pumping Engines, Pumps, Pump Jacks, Electric Lighting outfits, Belting and Supplies.



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"Queen of Nishna," yellow, Pride of the North, each 80 to 90-day varieties, \$2 per bushel, bags included. Also Iowa Silver Mine and Pride of Nishna, 100-day sorts, \$1.60 per bushel. Recleaned Cane Seed; Golden German Millet, Kafir Corn, Clean Alfalfa, Clover, Timothy and other grass seeds; Whipper-will Cowpeas; Stowell's Evergreen Sweet Corn for fodder. In fact, all kinds of farm and garden seeds. Address **RATEKIN'S SEED HOUSE, Shenandoah, Iowa.**

SEED CORN

Guaranteed first-class quality; all the leading varieties. Extra early, medium and large. 30,000 bu. of the best. Send for free samples to test; also catalog and prices. Glad to advise you about which kind is best for your farm. 20 years' experience at your service. **J. B. Armstrong & Son, Shenandoah, Ia.**

Buy Kratzer Carriages on their merits alone—you can't go wrong on their comfort, strength and lasting service



When you buy a Kratzer Carriage all you need do is pick the style that pleases you most.

You can count on getting the utmost of carriage value as long as it bears the Kratzer name plate.

Only the best, most carefully selected materials are used in Kratzer Carriages and they are built by skilled workmen.

**KRATZER
QUALITY
CARRIAGES**

KRATZER CARRIAGE CO., 104 West South First St., Des Moines, Iowa.

There is every reason why you should see and buy a Kratzer carriage—hand-tired wheels, the special long-distance "Kratzer Kurve" axle, hand and drop forgings, and many other features that put Kratzer Carriages in a class by themselves.

Our little booklet "Some Inside Facts About Kratzer Vehicles" tells the whole story—let us send you a free copy.

There is a dealer near you who sells Kratzer Carriages—ask him to let you look them over.

We Cut the Lumber and Cut the price to YOU

Write us for prices on lumber and we will easily convince you that we can save you money and give you better quality, grade for grade, than you can get at your local yard. For 30 years we have been the largest manufacturers of lumber, mill work, shingles and other building materials in the Middle West. If you want to save 10% to 25% on your buildings and get better material, order from us. Come to Dubuque and pick out the lumber yourself. **WE WILL PAY YOUR ROUND TRIP FARE—YOUR TRIP WON'T COST YOU A CENT IF YOUR ORDER AMOUNTS TO AS MUCH AS ONE CARLOAD.** Our profits are so small that we can't afford to make this free trip offer on small orders, but we can save you money on small quantities, and we guarantee you will be satisfied with our grading when you order by mail. If you live within 300 miles of Dubuque, the saving you will make by ordering small lots of us will more than pay the freight. Send for special price list. If you want roofing, our

DUX-BAK RUBBER ROOFING

the result of 40 years experience in the manufacture of ready roofing, will give perfect satisfaction. Made of the very best material and guaranteed for five years.

1 ply, 35 lbs. to the sq.,	\$1.15 per sq.
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WEAR A Wilson Weather Coat

30 days at our expense. Every farmer and automobile owner needs one. Wonderful new material. Absolutely wind and waterproof, contains no rubber, won't crack or tear. New auto collar and wind sleeve.

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Upon receipt of \$7.00 we will send coat, charges prepaid. Wear it 30 days—if not exactly as represented and perfectly satisfactory, money back promptly. We make these coats in our own big factory; sell direct. Colors, tan, gray and brown. State size; order now. Samples; illustrated folder FREE.

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The Omaha Loan & Building Association is enabled by its system of Mutual Savings Bank Plan, to pay its depositors **SIX PER CENT** per annum. Dividends paid January and July 1st. Deposits \$1.00 to \$25.00 per month received, or lump sums not exceeding \$5,000.00. Withdrawals of entire deposit or portions thereof, paid on thirty days' notice. Twenty-nine years old. Supervised by Nebraska State Banking Board. Write for our Booklet "A," and for other information. Assets \$3,500,000. Reserve Fund \$64,000.

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Tested for over 25 years. Made in many styles, Horse Power, Bolt Power and Self-feed Attachment. Simple and Durable with Greatest Capacity. They make a Profitable Investment.

We can suit you. Write for Catalog and prices.
KANSAS CITY HAY PRESS CO. 126 Mill St., Kansas City, Mo.

When Writing to Advertisers Please Mention This Paper

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JUNE 2, 1910.

Making Over the Old Farm House

THE making over of the farm house is a popular and fertile topic of discussion these days. Already The Homestead has printed the experiences of numerous grain-belt farmers who have remodeled their old homes at a cost ranging from \$200 to \$1,000 and made them modern and sanitary in every respect, installing water-under-pressure systems, furnaces and artificial lighting plants. Beginning thus, the movement has gained headway until in hundreds of instances the old house has been entirely replaced by a new and up-to-date structure, a pride to any section.

All these things are having their effect in improving the social standards of the country and keeping the boys and girls on the farm. But equally important with remodeling the old farm house or building a new structure is the care and adornment of the interior of farm homes. Already attention has been called to the "knock-down" furniture, by means of which the average home can be furnished easily and cheaply. But there remain things which should be considered, the little details of arrangement and decoration which mark the real culture and refinement of the home's owners and dwellers.

The interior making-over of the farm house is coming in for more and more discussion. Magazines and newspapers are devoting whole pages to the subject. One of the former, of recent issue, contains some helpful suggestions which should interest the entire family and are well worth considering.

As to painting the house over—when that is done choose a color that will not grow tiresome. Yellow soon pales; white with dull green blinds is very pretty, perhaps the best of all, especially with a dull green stained roof. Gray, with invisible green blinds, window sashes and doors is an excellent choice. Browns are not as good, and give a cheap look to a house. White or gray and white with dark green never tires one.

All the windows of the house should be gone over and made to open to their full width and stay open without putting blocks of wood under the sashes. When this is done they should be screened, both for comfort and health. Flies infest a barn and come into the house in swarms, bringing disease with them. Frames of wood may easily be made by a clever man, and covered with dark green painted wire netting or cotton; this latter can be put on freshly each year if necessary. The frames should all be painted to match the woodwork of the windows. The rooms of the farm house will probably all need decided changes to bring them up to today's ideas of comfort, but luckily, when these great improvements are all finished, the others are small in comparison and cost little in money. Only in the kitchen will there be great outlay. There the work is to be considered first—what must be done?

If butter is to be made, it is best to have a small, cool, dark room built at one side of the kitchen, preferably distinct from it, to avoid heat, and here must be the best sort of a churn to run easily, and cold water and plenty of shelves and pans. If the milk is all taken to the creamery, then in place of this room there may be a laundry. For this have water piped in, get a good stove, a bench with papier-mache tubs—not heavy wooden ones—and have a drying yard at hand with convenient lines and poles.

The kitchen floor should never be of unpainted pine—it is too difficult to scrub it constantly; better have it painted gray or yellow if it is not covered with oil cloth. As to utensils, the

woman who does hard farm work needs plenty of them. The more attractive the kitchen, the less will the farmer's daughter dislike to be in it.

After emptying the living room temporarily, have the walls papered with a creamy tan paper, if it is a comparatively sunny room. If one with a north exposure, then get a creamy apricot color with a warm tone. Do not have a border, and do not get any figure in the paper, unless it is a narrow stripe of the same color which will scarcely show.

When this is on, the next question is the floor covering. If that is a hideous Brussels carpet in violent shades, have it made into one large square, almost covering the floor, and dyed in plain dull green or red. That is an excellent way out of the difficulty. Then stain the floor dull brown, using the stain that comes in cans at a dollar a gallon, and lay this down. If the carpet is a brown ingrain, and usually it is one thing or the other, put with it all the odds and ends of ingrain about the house that can be spared and have an American rug made, soft and rich and lasting forever. Or get a rag carpet woven, sewing the rags all of shades of green and white; that gives a beautiful effect. As to the chairs and the sofa, cover most of them at home with dull green corduroy, using a plain green gimp and brass-headed tacks. To help out the number of chairs, which may be few after the patent rockers are eliminated, get a perfectly plain wicker armchair, or rocker, or two. Do not put a table in the middle of the room, but stand it at one side. Do not have a "decorated" shade on the lamp, but a plain, cream-colored one. Do not hang the lamp from the

ceiling, but stand it on the table or mantel. Do not have much bric-a-brac in the room, but use any pretty old-fashioned things you have, brass candlesticks, and pretty old plates and such things. If you have vases, get those in clear glass, clear or pale green, and neither pressed nor painted. For pictures, have only a few framed brown photographs of good ones, and perhaps a few of the new colored prints which are beautiful and inexpensive; or get one or two aquarelles, those with little color in them. Put the books in a simple built-in bookcase in a corner or at the side. This is merely a few shelves, and can be made of old boxes if necessary, stained brown. Have straight curtains of plain color matching the rug at the sides.

For curtains, get cheap ones. Buy cream fishnet and run it on rods and let it fall to the window sill only; or get Swiss and make up curtains with ruffles and put those on rods, too, but tie them back with white cords.

In the bedrooms get white painted iron beds when you buy new ones, and paint all the rest of the furniture white to match. Paint also all the beds and other furniture, which is already painted in colors, with white paint, and if you have any black walnut, cherry or mahogany, rub it up and use it as it is. Try and have very comfortable mattresses and springs, and get an abundance of towels for the wash stands. You can make dressing tables of old boxes with white Swiss covers where you have no bureaus.

Paper the walls of cold-looking rooms with pink flowered paper and use blue only in sunny rooms; do not put borders on any room. In the windows put white fishnet or swiss curtains and tie them back with white cord. Use shaded lamps to light the rooms, or candles in glass sticks.

Any clever woman with plenty of paint and perseverance and just a little money can make over the least attractive bedroom into something of beauty.

These suggestions, if adopted, will result in making the farm home attractive and comfortable, a place of which every member of the household may well be proud. All are practical and their adoption will cost but little in comparison with the results obtained.

WHAT WE SELL AND BUY.

A comparison of the tables issued by the United States Department of Agriculture giving the facts with reference to the exports and imports of live stock and live-stock products for the year 1909, reveals some curious circumstances.

For instance, while the value of live cattle exported is given as \$16,274,250, the value of fresh beef sent out \$9,592,176, and that of canned, salted or otherwise cured beef \$5,152,152, the aggregate value of the other cattle products such as oils, butter, cheese, milk, oleomargarine, tallow, bones, hoofs, horns, grease, hair and hides is \$29,171,991. It will be seen that the valuation of our exported animal products used in manufacturing industries lacks but little of equaling that of the portion used for food purposes.

Our imports of live cattle for the same period amounted to \$1,317,464. A small proportion of these were recorded cattle, to be used for breeding purposes, and should therefore receive no consideration in this connection. The aggregate value of the importations of live cattle, butter, cheese, bones, horns, hides and skins was \$47,118,394. Of this amount about three-fourths was for hides and skins alone.

In the case of hogs and hog



SUPERB GOODS, A SUPERB SHORT-HORN BULL.

This young bull is one of the good ones cataloged for the Bellows Bros. sale, at Maryville, Mo., June 14th, as advertised on page 29.

(Continued on page 5.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second class matter

PUBLISHED EVERY THURSDAY

SUBSCRIPTION RATES—Single subscriptions, \$1 a year; ten copies one year, \$10, and an extra copy to getter up of club. In clubs of fifty or more, 30 cents a year; in clubs of one hundred or more, 25 cents a year. Single subscription three years in advance, \$1.50; five years in advance, \$2.25; ten years in advance, \$4. Subscription price in Canada, \$1.50 a year. Remit by draft, registered letter, postoffice or express money order. In renewing subscription, use same name and initials as address on paper, or explain why you change. In changing your postoffice address, send your old address as well as the new. Errors in address or failure to receive paper within two weeks should be promptly reported to the publisher. Address all communications and business letters to THE HOMESTEAD COMPANY, Des Moines, Iowa.

PLEASING ONE'S CUSTOMERS.

As the years go by our faith in the honesty of our fellow man increases. Just what special educative force is in operation to implant the principles of honesty we are unable to state, but we do know that dishonesty in business methods is condemned more today than ever before.

The Homestead has recently obtained some first-hand information as the result of a little episode that transpired between a subscriber and an advertiser. It was about a hog. This particular hog was purchased by mail and the purchaser in his first letter gave a detailed description of the type of hog that he wanted. The seller in his first letter pointed out that he had exactly what the other party wanted, and he gave him his price on this hog. A draft was sent and when the hog arrived he was a disappointment not only from the standpoint of scale, but in every other respect. His blood lines were correct and we presume that the seller took it for granted that these would dominate and bring the hog out all right in the end. Just the same he was an off-type individual and was little over half the weight that he ought to be for his age. The purchaser in this case endeavored to get the seller to take him back and to refund the money, but the latter would not listen to this plan of action. An appeal was then made to The Homestead, which was perfectly in order because an advertisement in this paper brought about the transaction. We immediately sent a member of our live-stock advertising staff, who is an expert swine judge, and had him inspect the hog in question. His report confirmed the opinion of the purchaser, because the hog was without doubt a mean individual. The matter was then taken up with the seller and he was mailed the written opinion of our expert, and at the same time we pointed out to him that he should receive the hog back and refund the money, a plan which he consented to carry out. In stating his case in the end he bitterly complained about the injustice that was being done him by The Homestead, and in substance said:

I will refund the money if my customer will return the hog, but I want to add that I am done with The Homestead forever. I am a poor man, while you have behind you a strong company, so that you have the advantage of me. I still maintain that the hog I sent was not nearly as poor an individual as my customer thinks or as your expert describes.

It is not a question of financial strength or weakness that is involved here, but it is an everyday problem involving only the principle of common honesty. We have no thought of attempting to grind this unfortunate breeder to powder simply because he took advantage of one buyer in sending out a hog that was a disgrace to his own herd. As the matter has been settled amicably and as this advertiser's name no longer appears in our columns we consider the matter closed, save as it may be used as an example to point out the right as well as the wrong way to conduct business. Had this man refused utterly to make the refund and take

back the hog our next step would have been to report him to the secretary of the association in which this hog was eligible to registration. We would not only have reported the case, but we would have supplemented this report by furnishing all the correspondence that had passed between all parties involved. It would have been up to the association to determine whether or not any attempt was made to perpetrate a fraud on an unsuspecting customer. The facts in the case were so clear in this instance that we believe the association would have taken from its books the name of this breeder and it would have been amply justified in doing so.

If there is one individual in all the world who can ill afford to transact business on this plane it is the man who is short of capital—in other words, the "poor" man. If by such practice one could "get ahead" there might be some sort of flimsy excuse for it, but even that end is not accomplished in the long run, and more than one breeder of pure-bred stock has gone down into poverty and disgrace and dishonor as a result of indulging in a little sharp practice with his fellow breeders.

The Homestead desires to have its advertising columns bulging with business, but it wants the advertising of no man who has not made up his mind in advance to give his customers the square deal.

RURAL POPULATION DECLINES.

A preliminary announcement of the census bureau is to the effect that not only the rural population of Iowa but the population of the entire state will show a marked decrease. Discussing this report Herbert Quick, formerly mayor of Sioux City and one of the leading magazine writers of the day, says:

Iowa is a great farm. The drift of population is from farm to city. Iowa has not advanced in population since 1900, though Iowa is the richest piece of land on the globe. The drift to the city shows up in Iowa because it is more than any other state in the Union, except North Dakota, an agricultural state. But the same tendency exists in the farming sections of all of the states, and if the population of the farms of the United States could be known as distinguished from that of the cities and villages, it would be found that except in the new and undeveloped regions, the farming population of the nation has not increased. Indeed, the situation is worse than the Iowa census estimate shows, for Iowa has some cities, most of which are growing. Many towns and villages have doubled in population since last census. If the population of the state has either gone back or remained stationary, the rural population must have actually decreased, as the urban population has increased. That this has occurred in the richest farming region of the continent is one of the most stupendous facts of our national life.

It will be found that many of the best counties of Iowa are losing population. The same thing is true of Illinois, Indiana, Ohio, and many other states. There are three reasons for this tendency which shows up in the Iowa returns. These reasons are land-lordism, improved agricultural machinery, and the existence of new and cheaper lands in the West and South and Canada. Twenty years ago all of Iowa was settled. There was no room for more farmers except by dividing the farms into smaller ones. The pressure for farms sent up the price of land, rents increased, the time came when the owner of a fair-sized Iowa farm could move to town and live on his rents, and thousands have done so.

The richness of the land made this easier in Iowa and Illinois than almost anywhere else. The increasing price of land made land a thing to be competed for by the rich. Diamonds thrown out in the street would be picked up by rich and poor, but would soon all be owned by the rich. So it is with lands when they reach from \$100 to \$250 an acre. They gravitate by their very preciousness into the hands of the rich; nobody else, on the whole, can afford to own them. So it is with the lands in Iowa. By the moving of the farmers to the city, and the buying up of farms by rich people, the lands of the state are more and more owned in the towns, and tilled by the tenants.

Mr. Quick's comment is of interest, inasmuch as his main point is that the prosperity of the farmer is the principal reason for the decrease of farming population. The fact that Iowa farm land has reached the \$200 mark has undoubtedly caused many land owners to rent their farms and to move to the city, where they can live in comparative idleness and in positive comfort on the returns of the rented land. Probably the most important factor, however, in the de-

crease of population and the influx from the country to the city is the introduction of modern machinery which dispenses with a great number of farm hands. Machines which do the work of from two to six men have been introduced in all lines of farm work, with the result that not nearly so many men are required on the farm. Naturally this has resulted in the gravitation to the city where employment necessary for actual livelihood may be had much more readily than in the country under present conditions.

Under these circumstances, to argue that a falling off in the farm population means a decreased interest or an unprofitableness in farming, is altogether wrong. It is well to have this generally understood before the final and official figures are issued by the census bureau, for there will be many to contend that the showing made by the farmer in the 1910 census is far from satisfactory, when as a matter of fact the exact opposite is the truth.

WHAT CATTLE WILL DO.

It is sometimes a matter of wonder that farmers fail in a proper appreciation of the possibilities of some departments of their business. An instance of what was done in one case came under the observation of the writer last week.

Less than a decade ago a farmer and his sons, who were actively engaged in the breeding of pure-bred cattle, became involved to such an extent that they were forced into bankruptcy. At the time they owned something over a section of good land. This, with all their cattle, was, of course, absorbed in the final settlement of the bankruptcy proceedings, and they found themselves facing a condition common to the ordinary tenant farmer whose possessions are usually larger in pluck and energy than in worldly goods.

They did have, in addition, a perfect knowledge of and confidence in cattle. After the settlement, having the confidence of the banking interests of the community, they bargained for a portion of their old farm. They buckled down to earnest work in raising big crops of corn and feeding it to good cattle. They made good and bargained for more of the old farm; then raised more corn and fed it to more cattle. They did better. Today they own all of the original farm and, according to a statement of their banker, have cattle enough on hand to clean it all up.

This is a remarkable achievement. It is such a one as is not frequently made in a lifetime of endeavor. It was made possible only because of the knowledge of what could be done with cattle and a determination to do it.

LAND AT \$500 AN ACRE.

The prediction that Iowa farm land will eventually sell for \$500 an acre is made by George E. Roberts, president of the Commercial National Bank, of Chicago, and former director of the United States Mint. Mr. Roberts believes that the adoption of the policy of intensive farming will bring about this marked increase and says:

We have been living up to the present on the natural resources of the country, but those times are past. In fifty years from now, the United States will have a population of 200,000,000, and Iowa farm lands will be worth \$500 per acre. The country will be tilled like the gardens of France. We have come to the beginning of intensive farming, and with its approach low prices must disappear. In former days, when land was worth almost nothing, a farmer could scarcely make a day's wages from the sale of his products, but now a change is coming. Future tendencies in prices will not be downward.

The increase will be gradual and will work no harmful results, as would be occasioned were the increase to be sudden. Mr. Roberts believes that intensive farming will be prosecuted on an extensive scale within the next few years, and that each year it will result in adding to the value of Iowa's farm land. Already the movement has begun, due largely to the installation of extensive interurban systems. Tracts of five acres and ten acres lying alongside these interurbans and adjacent to the larger cities in the states are being given over to fruit and vegetable rais-

ing. The agricultural department is issuing numerous bulletins showing the possibilities of intensive farming. Never before has interest been so great in this work and the reports which come back from the Pacific Northwest, where intensive farming has been carried on for some years, serve to stimulate the ambition and energy of the grain-belt farmers.

The land owners both in Iowa and in practically all other states of the grain belt who refuse to sell their farms at present prices will make no mistake, provided, of course, they see to it that the fertility of the soil is maintained so that the productiveness will not only be kept up, but will be materially increased. Mr. Roberts' prediction is not so remarkable when it is considered that already Iowa farm land has doubled in value in many instances within the past five years. Land which was on the market for \$100 an acre five to seven years ago now finds ready takers at \$200 an acre, while \$250 farm land is already known in Iowa. At this ratio of increase the \$500 mark would be reached within the next ten years, but Mr. Roberts proceeds on the theory that the advance will not be so rapid in the future as in the past, and conservatively places the time for \$500 land at a half century hence. There is every reason to believe that his prediction will be verified and very probably much sooner than he allows.

SOWING ALFALFA WHERE CORN FAILS.

The weather during the month of April and the first half of May was so cold that a great deal of the first planted corn has rotted. Instance after instance has been brought to our attention where the best of seed promptly rotted when placed in the cold ground. Already much replanting has been done, while there are thousands of cases where farmers are hesitating whether to accept a thin stand or to cultivate it out and replant.

In view of this general situation we would like to suggest to those who have been thinking about putting in an acreage of alfalfa, that a few acres of this corn land could very advantageously be used for alfalfa. Not that we advise sowing the alfalfa right away, but rather that we recommend that some of this land where corn has been a failure be summer-fallowed during the next two or three months and seeded to alfalfa in August.

One of the most successful alfalfa growers in Kansas is a staunch advocate of the plan of not producing a crop on the same land previous to preparing it for alfalfa. The theory is that the moisture that will be conserved by cultivating the surface occasionally will be needed in August for the alfalfa crop, while the weed-killing process that will go on, as a result of cultivation, will make it possible for the alfalfa to have clear sailing after it is seeded.

The thing, therefore, to do would be to select a few acres of this killed-out land and give it a good disking every two or three weeks, so as to keep the weeds in check and to conserve moisture. All the annual weeds, the seeds of which are within three or four inches of the surface, will germinate under this treatment and in turn they will be killed. Furthermore, the surface cultivation will keep the leaves and stems of perennial weeds from forming, and as a result the roots will be smothered. Morning-glory, quack-grass or thistles cannot hold out against one season's treatment of this kind, because the roots will be actually suffocated for lack of air.

Those who will not be in a position to properly care for land in the manner described might adopt the practice of sowing the alfalfa in the immediate future, being particularly careful to cut back all weeds immediately before sowing. A decade ago alfalfa was nearly always sown in the month of May or the fore part of June, but in recent times the month of August is preferred. The only risk to run in sowing early is that annual weeds will grow so strong as to offer considerable opposition to the alfalfa, but where land has been kept clean thus far this year, the risk of having alfalfa choked out with weeds is not very great.

HOW SOME ANIMALS FATTEN.

The kind of steers that are now being produced in the great central West do not in themselves compliment the stock raisers of this great region. As meat-making machines we doubt if they average as high as they did twenty-five years ago, a fact which may be attributed to the intermingling of the dairy and beef breeds. It is by no means an unheard of thing to hear dairy enthusiasts make the claim that there is fundamentally little difference between the beef and the dairy animal as meat-making machines, though of course experienced feeders know better. A dairy-bred animal may for a given period make as large gains as one bred for beef purposes, but the increased weight on the two types of animals is not at all similar in character.

This matter has been worked out at the Missouri Experiment Station under the direction of former Director H. J. Waters, who made a presentation of the subject before the thirtieth annual meeting of the Kansas State Board of Agriculture. Among other things Professor Waters said:

Scrubs and the dairy breeds have a strong tendency to store their fat inside the abdominal cavity, as around the kidneys and intestines, where it does not improve the appearance of the animal and adds very little indeed to the value of the carcass. Fat is more nearly wasted when deposited there than in any other place on the body. It is only when the fattening process has been carried to a considerable length or when these animals have been fed a long time that they store much fat under the skin and between the muscles. It is particularly late in the fattening process that they marbled the meat by storing fat inside the muscles, and then only in relatively few parts of the body. Moreover, these non-beef types do not cover their carcass evenly, but lay it on in large lumps and patches at the root of the tail, over the last rib and over the loin.

The rotund form of an animal may be due to the thick layer of muscle with which it is covered or to a thick deposit of fat, or a combination of both. The scrub animal and the dairy steer depend very largely for whatever roundness of form they may have upon fat. That is, their muscles are not thick enough and well-rounded enough to present a smooth, even type, except when very fat. The highly-developed beef animal, on the other hand, if of the proper type, will carry a good form even though not highly fattened, because of his wealth of lean meat, but in any case there is considerable change in the form due to the deposition of fat.

In certain parts of the body it is due to the deposition of fat between the muscles and inside of the muscles themselves; as, for example, in the round or twist. Here the fat is deposited between the muscles, spreading them apart, and inside of the muscles, increasing their volume and giving symmetry to this region. The marbling of this part of the body is less striking than almost any other and it is very seldom that the outside of this region is more than very thinly covered with fat. In other regions it is due to the deposition of fat over the muscles or between the muscles and

the skin; as, for example, over the ribs and loin and particularly in the region of the crops and the front flank.

It will be seen that the dairy or scrub type of animal has a tendency to deposit fat around the kidneys and intestines, while the animal bred for the specific purposes of meat production makes its gains largely by the deposition of fat in such form as to marbled the muscles or lean meat. The market recognizes the great difference between the two types of animals and there is often a spread in values of \$2 or even \$3 per hundredweight between beef and non-beef types. This matter was called to our attention during the last year, where a car load of dairy-type steers were fed 180 days and at the end of that time they were sold for \$6.50 per 100 pounds. Had they been steers of the genuine beef type they would have run to \$8 or \$8.50 per 100 on the same market—enough difference to make a very handsome profit in the one case and a very decided loss in the other.

If cattle raising is to have a permanent part in the agriculture of the central West, something will have to be done to popularize good types of beef bulls. We must, on the one hand, use dairy bulls and go in that direction for the specific purpose of producing dairy products, or we must use the good, thick, beef bulls and go into the meat-making business.

FERTILITY SUPPLY AND CROP YIELD.

A Kansas farmer, who operates rather an extensive acreage, recently told us an interesting story concerning the increasing productiveness of his land. When he purchased this farm some fifteen years ago, forty bushels of corn per acre was considered an exceedingly large yield, while fifty bushels was absolutely unheard of, the average running from twenty-five to thirty-five bushels per acre. All the grain and roughage grown on this farm for fifteen years has been fed, while alfalfa has been extensively grown, and as a result of this kind of farming one field last year yielded over ninety bushels of corn per acre. It was even claimed by the owner that conditions under which this corn was grown were by no means ideal, as the crop lodged on account of the high winds, but in spite of that the above yield was obtained.

Results of this kind, after all, constitute the best argument for advising men to stay in the stock business. It may be for a single year that stock raising will not show large profits. In fact at present prices of grain, temporarily, the man who markets his grain may seem to be ahead, but in the end it will not work out that way. The policy of handling live stock is not one that answers well a temporary need, because to get into the business and get out again in a year or two is mere speculation. To stay by it year by year and conduct the business on anything like a substantial basis means just such increased crop yields as described by this Kansas stockman.

Our attention was recently called to the fact that in some very productive sections of the corn belt, only the increase in the value of land has prevented a good many individuals from going into bankruptcy. This is indicated by the fact that their indebtedness today is greater than it was a decade ago, when they were carrying all the load the land would bear. The values have doubled, and in some instances trebled, so that the same indebtedness or even a larger indebtedness leaves the owner a larger equity than he had at first. There is only one way out of a situation of that kind, and that is that the acre must be made more productive, and the only practical way to bring this about is to feed a considerable part of the grain grown, and all the roughage, so that the soil may be enriched by the manure made in the yards as well as that produced in the pastures themselves.

WHERE STRONG SEED CORN WAS USED.

The difference between fairly good seed corn and genuinely good corn is showing up very plainly this year. Where seed was thoroughly tested by selecting four, five or six kernels

from each ear, and where everything that showed any weakness whatever was discarded and only the good corn used, there has been very little complaint made concerning the stand. On the other hand, those who thought they could tell whether corn would grow or not from its appearance, are in many cases finding it necessary to replant.

One instance was called to our attention where a forty-acre field was planted in April, it being about the only field in that particular locality that was planted so early. That seed remained in the ground for more than three weeks without a single plant showing above the surface. Examination from time to time showed that the seed was not rotting, but that the low temperature of the ground seriously retarded the development of both the roots and leaves. About three weeks after planting the plants began to appear, and the latest report is that there will almost be a perfect stand in that field. Upon inquiry we find that the seed used in this case was tested while the corn was still in the ear, and every ear that did not show strong germination test in each kernel out of the six tested was discarded. After selecting out only the very best ears in accordance with this test the seed was shelled and a supplementary test made, only to find that it germinated 100 per cent.

Taking all the facts into consideration, therefore, it will be seen that it was not accidental that corn should remain in the ground for a period of three weeks and then show up strong at the end of that time.

WHAT WE SELL AND BUY.

(Continued from page 3.)

products the figures assume an entirely different aspect: \$76,515 worth of live hogs were exported, while none were imported. The total exportations, including live hogs, canned pork, bacon, hams, salted, pickled or fresh pork, lard and oils amounted to \$105,665,954. Against this, in importations, we have the single item of \$3,076,489 for bristles. It is a peculiar feature that the largest item in all our exportations is lard, which reaches the enormous sum of \$48,770,370.

We exported \$265,356 worth of live

sheep, \$162,929 worth of mutton and \$10,030 worth of wool. Our importations of live sheep amounted to \$701,000, sheep skins \$10,632,920 and wool \$55,530,366.

Horseradish is what makes bacon taste flat in hot weather when you don't have the horseradish to eat on it.

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Bales 70 Tons of Hay, Clover or Alfalfa a Day Direct from the Windrow.

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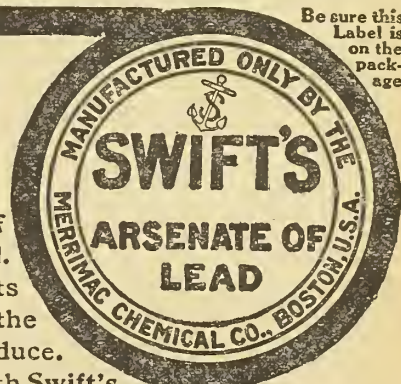
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Send for valuable book on leaf-eating insects. Give your dealer's name.

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HARD ON CHILDREN

When Teacher Has Coffee Habit.

"Best is best, and best will ever live." When a person feels this way about Postum they are glad to give testimony for the benefit of others.

A school teacher down in Miss. says: "I had been a coffee drinker since my childhood, and the last few years it had injured me seriously.

"One cup of coffee taken at breakfast would cause me to become so nervous that I could scarcely go through with the day's duties, and this nervousness was often accompanied by deep depression of spirits and heart palpitation.

"I am a teacher by profession, and when under the influence of coffee had to struggle against crossness when in the schoolroom.

"When talking this over with my physician, he suggested that I try Postum, so I purchased a package and made it carefully according to directions; found it excellent of flavor, and nourishing.

"In a short time I noticed very gratifying effects. My nervousness disappeared, I was not irritated by my pupils, life seemed full of sunshine, and my heart troubled me no longer.

"I attribute my change in health and spirits to Postum alone."

Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

Farm Homes For The Homeless



"Back to the Land" Movement Started by Governor Hadley, of Missouri, Proposes Colonies Where City Folks Will be Given Model Farms of Forty Acres and Ten Years to Pay for Them



IN ORDER to increase the production of farm crops, relieve the congestion of crowded cities and swing the pendulum of immigration from the city back to the land, Governor Herbert S. Hadley, of Missouri; John H. Curran, chief immigration commissioner of Missouri, and Prof. Frederick D. Tucker, former director of the University of Minnesota Agricultural College, have formulated a plan to colonize large tracts of land in Missouri, Texas and other states and establish Utopian clusters of farmers, giving them the benefit of a central farm and experiment station where the latest agronomic ideas will be worked out scientifically.

Called together by these three men, a convention of sociological workers was held at the Planters' Hotel at St. Louis, a few days ago. About thirty or forty men and women were in attendance and inspired by Governor Hadley and other speakers, promised their co-operation in every way possible. It is proposed to interest leading philanthropists of the country to the end that a fund may be created, ranging in the beginning from \$50,000 to \$100,000. Already it is semi-officially announced that a large sum will be forthcoming in the near future, a sum sufficient to give the plan a work-out test and to establish thirty-two farms.

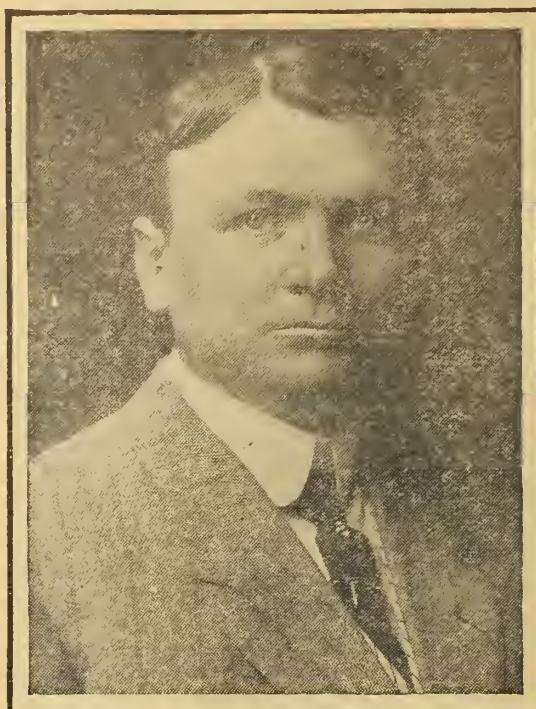
As a result of the St. Louis meeting the National Farm Homes Association was formed. It will be incorporated under the laws of Missouri. Briefly, the scheme is as follows: Men of wealth and a disposition to contribute to social welfare are to be asked to give money to the association, "upon the basis of compensatory, but not profitable, rates," to use Governor Hadley's phrase. The governor is authority for the statement that there are large tracts of land in Missouri which may be purchased for \$10 an acre. Virtually the same conditions exist in Arkansas, Alabama, Mississippi, Louisiana, Texas and other states. It is proposed to acquire farms of forty acres each, situated about a central farm of 160 acres. Thirty-two of these forty-acre tracts, with a center tract, will constitute a colony unit. The association proposes to purchase the land, improve and stock it and supply the colonists with farm implements. The colonist will differ from no other tiller of the soil except that he will owe for all the land, improvements and equipment. It is proposed to exempt him, however, from any payment the first year. Thereafter, he is to wipe out his indebtedness in ten annual instalments of 10 per cent a year. An expert agriculturist is to be in charge of the 160-acre parent farm in the capacity of instructor for the unit or colony. Canneries, sawmills, creameries and kindred interests are to be established at the unit center for the benefit of the colonists. The director or instructor is to co-operate with the individual producers or colonists in obtaining the best market prices. Educational features for the children are also proposed, while it is suggested that especial attention be paid to home comforts and social culture clubs. A concise idea of the scheme may best be given by quoting the prospectus sent out in advance of the meeting by Governor Hadley and his associates:

"The cost of each farm is estimated as follows: Land, forty acres at \$10 an acre, \$400; buildings and fences, \$400; stock and teams, \$300; implements, etc., \$100. Total, \$1,200.

"Thirty-two of these forty-acre farms will be gathered around the central farm of 160 acres. Total cost of the thirty-two farms will be \$38,400, fully equipped, and the central farm, fully equipped, is estimated to cost approximately \$11,600 additional, making the total cost of each colony unit \$50,000.

"These colonists will differ in no respect from other colonists except that they will owe for all their land, improvements and equipment, and the association outlined above has extended to them the credit so they are able to establish themselves on a farm with the purpose of ultimately owning it. This desire to own a piece of land is a factor in the situation that must not be ignored.

"There should be a large central farm, owned by the association and directed by it. On this central farm there will be employed some of the larger machinery, such as ensilage



JOHN H. CURRAN,

Chief immigration commissioner of Missouri, who is Governor Hadley's chief assistant in turning the tide of immigration landward.

and feed cutters, seed fans, manure spreaders, etc., which at intervals can be utilized for the small forty-acre tracts surrounding the larger farm. On this farm should be placed the creamery, cannery, sawmill and other equipment necessary to care for and prepare for market the products of the individual farmer. The director of this farm should be a trained agriculturist, who will assist the individual farmers to plan their farms, locate the fields and the buildings, designate prop-

er crops and adopt plans for crop rotation.

"Possibilities of a forty-acre farm when fully established, are as follows: Three acres of tomatoes, net average, \$150; one and one-half acres onions, net average, \$150; two acres potatoes, net average, \$100; four acres fruit, net average, \$400; one acre small fruits and berries, \$150; four acres corn and cowpeas, \$160; four acres ensilage and late rye, \$200; eight acres alfalfa, \$240; four acres timber, \$25; three and one-half acres miscellaneous, \$200; four acres clover, \$100; cows, pigs, chickens, ducks, etc., \$500. Total, \$2,375.

"Figuring extra cost of living, extra labor, annual payment, etc., at \$1,375, leaves a net balance of \$1,000 a year for the farmer. To this may be added his house rent, his fuel, which is on the ground, and a great deal of material, such as fence posts, etc. Thus it may be seen that since the yearly payments cannot exceed \$160, inclusive of interest, the final payments will be easily met, and that without any great hardship.

"It is properly estimated the methods of co-operation which can be inaugurated in such a colony and effectively carried out because of the financial obligations of the individual farmer will bring larger returns to the farmer than the 'go-as-you-please' methods of the average colony."

There will be no charity to the settlers; each man who takes a farm will have to pay for it at its cost price and will have to pay a commercial rate of interest on his deferred payments. But he will have his time in which to pay (in annual instalments covering ten to fifteen years) and he will have the advice and instruction of paid experts of the state or federal governments who will manage the central farm and supervise the others. In addition, this central farm will provide much community labor and will be a depot for marketing the supplies of all farms by business and equitable methods. Applicants for these farms will be subjected to examination by a board of the association and care will be taken to aid the deserving poor who want to get to the land and to differentiate between them and hopeless derelicts.

The plan differs essentially from communistic experiments. It has the promise of instructive help from the national and state departments.

"Let no one suppose," says Mr. Tucker, "that the benefits of this movement will be limited to the

comparative few who for some years we by unaided efforts can get to the land. Its greater advantage will be educative. Its example will spread. It will be a laboratory for all the great state and national propaganda for better soil cultivation, for good roads, for business methods on the farms, and for better living on farms that are not already especially favored."

That the time is ripe for such a movement is the belief of all those who attended the meeting and who are interested in the plan. These men point to the fact that east of the Alleghany mountains 60 per cent of the farming lands cultivated twenty years ago has been abandoned, while regardless of geographical boundaries the soil is deteriorating in many places through need of intensive methods of cultivation, and a surplusage of city population should be transferred to the surplusage of vacant lands throughout the West and South and North. The National Farm Homes Association hopes to solve with practical, unrevolutionary methods the problems of the unemployed, the high cost of living, the congestion of city population and the waste and isolation of the farms. Governor Hadley is particularly enthusiastic over the project. After the convention had adjourned, having perfected a temporary organization and begun the work of soliciting funds, the governor was quoted as saying:

"I was surprised at the tremendous interest shown in the movement. It shows the great need for some such organization as we have launched, and the big possibilities that are wrapped up in its successful operation.

"It is not my idea that this organization should collect a vast amount of money for carrying out its purposes. I believe, as a matter of fact, that it can more successfully serve its purpose as the machinery for carrying out the desired ends in the movement back



GOVERNOR HERBERT S. HADLEY,

Missouri's popular and efficient chief executive, whose fertile brain originated the "back to the land" movement in his state.

(Continued on page 12.)

FARM FURROWS

Turned By a Practical Farmer

The weather this spring has not been of the finest for fields and pastures, but it has been pretty fair for getting a crop of spring pigs started.

It is a nuisance to have the milk cows pastured far from the house. The barefoot boy and the old dog, Tray, are not always handy to bring the cows in at milking time. If the cows must be turned into the road and brought to the house it makes all the more trouble. I gave up a two-rod strip along one of my fields for a lane rather than turn into the road for a lane, and do not consider it a waste of valuable land, either.

The discussion still goes on as to whether or not a white horse can stand the heat better than a dark one. I really never owned a white horse, so I cannot give an expert opinion on the subject, but I do know that a roan will stand lots of hard work in all kinds of weather.

The Percheron Society of America is to be congratulated on its choice of a secretary to succeed George W. Stubblefield. The honor has fallen to Prof. Wayne Dinsmore of the Iowa Agricultural College, one of the most practical and effective workers that has ever been connected with any college in the great central West. I have no hesitation in bespeaking a great future for the Percheron Society and for the Percheron interests in this country.

I don't believe I ever remember a season when spring-plowed land was so lumpy as it is this year. We have had no rains to amount to anything to weather the clods, and it has been a very difficult matter to get a seed bed prepared in many cases. Those who used a roller to alternate with a harrow were strictly in it this year, because they have good seed beds as a reward for their foresight.

It is a hopeless task to try to raise a weak colt—a colt that isn't strong enough to suck its mother the first day. Indeed, it is just a question in my mind whether or not it is worth while to try, because the little fellow generally rewards you by dying at the end of two or three weeks.

I believe we used as much coal in our house during the months of April and May as we did any two months during the winter, and even at that some of us haven't been warm for several weeks. Not only have we kept our furnace going, but our fireplace has been running full blast day and night, and it never felt better than it has this spring.

Those who are fond of making calculations in dollars and cents are still busy figuring out our losses caused by the late frosts and our gains by the rains that gave our fields a much-needed soaking.

In transplanting evergreens it is a good plan to make the holes large and deep enough so that a little loose earth may be put back before setting the tree. Great care should be taken to keep the roots from drying while doing the work. The earth should be packed solidly around the roots, but should be left loose on top. Watering evergreens after they are planted generally does more damage than good.

There are many kinds of trees that make good windbreaks, but evergreens are usually considered the best. It costs a little more and takes some more work to grow evergreens than willows, but it should be remembered that a good article always costs more than a poor one.

A weed is a plant out of place. It is a good idea to have everything in its place.

A neighbor of mine recently had a colt and in a barbed wire fence and he had move afterwards was to get we en wire to replace the barbed wire

on his pasture fence. This was a move in the right direction, even if it was a little late.

It is reported that a member of congress recently said that it is not a crime to sell oleomargarine and call it butter. Perhaps it is not, but we notice that when a dairyman sells water and calls it milk he generally "gits his."

The dogs that can earn their board by bringing home the cows are dog-gone scarce. The dairy cow is a very sensitive animal and the dog is almost always her natural enemy. The dairyman who allows a dog to drive his cattle home will find that a large part of his profits go to the dog.

The stand of corn will probably be about what was expected. Some fields will average "from one to nothing" in a hill and others will be about as usual.

Those who were old enough to be worried about the visit of Halley's comet may be happy now because on its next visit they will be old enough to know better if they know anything.

Many a friend of mine has lost the result of three or four years' hard work by buying cattle and being caught with them on hand when the price lowered. This has not happened lately, but the way to judge the future is by the past. I have noticed that one speculating in cattle starts

others out and many become so enthused that they buy heavily of stuff rather inferior in quality, which is the stuff that drops the lowest when a depression comes. The safe way is to buy cattle so young that they grow into money, or to raise them entirely.

Dragging the corn fields kills the young weeds and keeps the fields in tip-top shape for starting the cultivators as soon as the corn is up far enough. The practice of dragging after the corn is up is not used as much as formerly, but still has a few advocates.

They say a man should always crank an automobile with his left hand; then, if there is a "back kick," his hand is out of the way. If there is any precaution that will help when harnessing the limber-legged mule, I never have heard of it.

Some machinery, of course, is better than some other, but the life of a machine is more in the hands of the operator than in the maker, if the maker does anything like his part. In years to come the farmer can be as appropriately called a machinist as a farmer.

It must be admitted that the pig often shows wisdom in his fence breaking. The criminal will usually break jail when given the chance. The pig may be no criminal, but his pen is often a jail, while all outside may be growing the food his system craves. Pity the pig in a dry lot.

Man should not long remain in a country which he knocks to every stranger. I know a man who has lived on the same farm for over thirty years, and yet he cannot say mean things enough about the country and his surroundings. Sometimes I think dissatisfaction is often assumed in

man's conversation; in other words, man often talks through his hat.

The more a man cultivates the better work he should be able to do, but I have seen many a fifteen-year-old who could beat "Dad" any day in the week.

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Every part of the Kissel Kar is made in our own factory—we test all material, securing surer quality at the same time we are cutting out profits usually paid to makers of parts, thus enabling us to sell a highest quality car for less than the price of any other car equal in quality.

The Kissel Kar is a standard, high quality automobile in every detail—reasonably priced—reliable for all roads—easy to control—not expensive to maintain.

MODEL D. 10, the \$2,000 Kissel Kar, carries 4 and 5 passengers, has 120-inch wheel base, which is liberal for this weight car, and with the dropped frame makes it extra easy riding; has selective type, ball bearing transmission, direct drive on third speed for heavy roads and hills, and is geared up on fourth speed for speed driving. Powerful double internal brakes, double ignition, ease of control, chrome vanadium steel in all forgings and numerous other mechanical features.

MODEL L. D. 10—\$1,500—is practically the same as Model D. 10 except that it is 30 H. P.—three speeds forward and reverse.

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CURRENT EVENTS

THEODORE ROOSEVELT has been spending the week quietly in and around London. He has been elected a life member of the Royal Society of Arts, of which Benjamin Franklin was the first American member. Colonel Roosevelt has had a number of notable callers, prominent among them being Rudyard Kipling, who paid his respects to a man who has lived a life as energetic and as strenuous as many of Kipling's imaginative tales. During the week Mrs. Roosevelt spent an hour with Queen Alexandra, widow of the late King Edward. The queen mother is said to have been especially interested in her visitor's description of the place occupied by women in the life of the United States. Colonel Roosevelt has not announced any plans further than that he will speak at the meeting of the National League of Republican Clubs in New York, June 24th and 25th, being on the program with President Taft and Vice-President Sherman. In August he will make a western trip as far as Cheyenne, Wyo., where he will attend the annual frontier day celebration.

SOMEWHAT of a bomb was exploded before the general assembly of the Presbyterian church in Atlantic City last week by this statement of the Rev. D. H. Sharpe, of Red Bluff, Cal.: "I know some excellent Presbyterian ministers and laymen who drink wine and they are as good as we are." There immediately followed a chorus of noes and considerable hissing, which resulted in Dr. Sharpe making this telling point: "Well, anyway they would not hiss a man who has courage enough to stand in the open and give his opinion." The temperance issue was discussed at some length, one of the speakers contending that as much danger lies in books which are sold and issued from public libraries as in the saloon. He said: "I would rather teach my boy, if I had one, to drink beer or whisky than to let him read some of the books sold." There seemed to be a quite general opinion that other matters are fully as important as the liquor problem and that the church should not confine itself to attempting to stamp out the saloon and not pay attention to other evils.

THE senate has decided to add two battleships to the United States navy, to cost to build not exceeding \$6,000,000 each and when equipped with armor and armament about \$12,500,000 each. The senate has raised the house limit by increasing the naval budget to include two freight colliers, five submarine torpedo boats and six torpedo boat destroyers. The senate bill carries an appropriation of almost \$134,000,000. During the discussion incident to the bill, Senator Depew, of New York, declared that the war with Spain had been forced on the country by popular demand and that President McKinley himself had been opposed to it. Since then the demand for an enlarged navy has been so strong that the political leaders have been forced to accede to it, regardless of their personal convictions. At practically every session of congress in the past ten years, one or two costly battleships have been added and still the United States navy does not rank first amongst the naval powers of the world.

A NEW motor-car law goes into effect in New York state the first of August which contains several features which might well be adopted in other states. Number plates must be worn both in front and in rear and they must be stationary so as not to swing and obscure their detection. At night the rear number must be so illuminated that it can be read as easily as in the daytime. No person under the age of eighteen may procure a license to run a car. A girl or boy under eighteen may drive a car, however, if a licensed chauffeur sits

alongside. Motorists must obey the signals of persons on horseback and persons driving horse-drawn vehicles, it being a misdemeanor not to stop the car when signaled to do so. The maximum speed allowed for every highway of the state is thirty miles an hour. To run away after an accident caused by an automobile is a felony punishable by a fine of \$500 or imprisonment for not more than two years or both. No intoxicated man may drive a motor car while intoxicated, a second offense being punishable by imprisonment. Several of these laws are already embodied on the statute books of various western states, but no single state has made such headway in the regulation of motor-car traffic as New York will have made when the new law goes into effect.

THE Rough Riders will be Colonel Roosevelt's guard of honor at the homecoming parade in New York on June 18th. It was expected at first that a long and elaborate procession would traverse the business section of the city with Roosevelt at the head, but the ex-president has announced that it is his desire to have as modest a procession as possible, so it will consist simply of Rough Riders, Roosevelt and the reception committee in carriages. The event will be a notable one, however, inasmuch as thousands of visitors are expected in the city, and the streets through which the procession passes will be lined with cheering people. Colonel Roosevelt has not announced his plans further than the New York homecoming reception, but it is expected that he will repair with but little delay to his home at Oyster Bay. Two or three of the magazines have started a scheme to have their subscribers fill out a printed blank, setting forth their ideas on the vital political and economic problems of the day and mail these to Roosevelt in care of the magazine in New York of which he is the associate editor. It is highly probable that the ex-president will be fairly deluged with these expressions of opinion. It is unlikely that he will be able physically to read any number of them, so that the scheme will probably have but little, if any, real value.

JOHAN D. ROCKEFELLER has begun following the Carnegie example and distributing his immense wealth. During the past week Rockefeller has given away a total of \$700,000 to about a dozen worthy but needy colleges and universities. Several grain-belt institutions have benefited by his generosity. In every case Mr. Rockefeller, like Mr. Carnegie, insists that the beneficiary shall raise an amount equal to that of his endowment. This makes the institutions work for their money and invariably results in a quickening of ambition and, as a rule, an enlargement of the scope of utility.

FOR the second time in history, the British channel has been crossed by a flying machine. It will be recalled that some weeks ago M. Bleriot flew across the strip of water which divides England from the mainland of Europe and landed on the white cliffs of Dover, to the astonishment of the natives and the ten-day wonder of the world. His feat has been duplicated by Count de Lesseps, a grandson of the famous Ferdinand de Lesseps, original promoter of the Panama canal. Count de Lesseps took a longer time than did M. Bleriot, however, and did not succeed in alighting in as favorable a spot, so that he immediately announced he would attempt to duplicate his feat in shorter time and land at the scheduled place. When the channel was originally crossed the Britishers feared that the navigation of the air might eventually work harm to them in times of war, but so quickly is the art of flying developing that the fear of aerial invasion is not so

great as it was a few years ago, for England is itself making progress in this line and special guns are being invented to be trained on the flying machines. In the meantime an American aeroplane, Glenn Curtiss, has invented a device which permits of an aeroplane settling on the water and floating, so as to minimize the danger of accidents. Flying is an art in which the element of danger is being lessened, although it is yet too hazardous for the average person.

THE claim that a college education decreases a girl's chances of getting married has frequently been denied by college authorities, yet it is generally believed to have a considerable measure of truth in it. The graduating class of the Kansas Agricultural College this year intends to do what it can to eliminate the possibility of its girls remaining single very long. Each girl in the class is working on a linen piece which is to go to make up a box of linen for the first girl in the class who is married. The box is to be left in charge of the professor of the domestic art department, and already there is said to be considerable rivalry among the fair co-eds as to who shall be the lucky claimant. The president of Wellesley, Vassar, Smith and other exclusive girls' schools have found it necessary to argue that the college-bred girl makes every bit as good a wife and is as desirable in the matrimonial market as the girl without a higher education. The opposite has been argued with a backing of statistics and individual instances and is the idea held by the majority of people.

CROP PROTECTION FROM HAIL STORMS.

Recently in the pages of this paper appeared a short article setting forth the value of reliable hail insurance and showing some of the reasons why we consider the old Farmers Mutual Hail Insurance Association of Iowa worthy of a place among the strong business organizations of the state.

The writer of this article is so impressed with the fact that there is no other kind of insurance with which the farmer can so ill afford to do without that space is again taken to present the matter of hail storms, the destruction wrought by them and the best method to avoid financial loss. We all know the storms will occur. Already more than a dozen have been reported in as many different localities in the state. They come every

year, but it is during the months of June and July that the growing crops are the most completely destroyed. When that time comes a wise farmer should have the burden of responsibility shifted from his shoulders to the hail insurance company.

We do not recommend every hail insurance company any more than we recommend every fire insurance company, but we venture the statement that any farmer who honestly investigates the methods of doing business, the past record of the company and the business standing of the officers of the Farmers Mutual Hail Insurance Association of Iowa will be so pleased that he will place his risk with this association. It is the oldest, the largest and we believe it by far the best, hail association doing business in the state. An association protecting the farmers from loss by hail storms has such an opportunity for doing great good that the farmers of this state should give both their business and their influence to the company which they know to be right.

The farmers of this state complain bitterly in some localities of the treatment they have received from some hail associations and of the representations made by some agents, but we feel sure that careful investigation will reveal the fact that none of this has been caused by either the Farmers Mutual Hail Insurance Association—The Old Rutledge Company—or by its agents.

This question of hail protection is certainly of so vital importance that it merits the careful consideration of every farmer and the company has the endorsement of so many of its members that it deserves the careful, candid investigation of every grain farmer. This is the company which made the low assessment of 2 per cent last year and always makes the lowest assessment possible.

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DAY BY DAY

AGRICOLA

Did you ever learn how to get rid of rats? The government has published a bulletin on the subject. There are several methods recommended which work fine until the rats "catch on," then you catch no more rats that way until a second generation grows up which heed not the warning of their fathers.

Not long ago I found that there was a rat hole in the side of the wooden box which I keep supplied with chicken feed for the poultry manager to use. It was a fine chance to circumvent the rodents. I put a wire rat cage inside up against the hole and the next mornin' the storage end of the trap was crowded full of rats. The same was true for four consecutive mornings, and then the rats "got wise" and not one more has entered the trap.

The iron sulphate method of exterminating weeds seems to have the gift of discrimination. Those who have used it say that it will kill weeds and benefit the oats in which the weeds are growing. Whether this is entirely due to giving the oat roots undisturbed possession of the ground, or whether sulphate benefits directly is perhaps not surely known. But anything applied wholesale with good effects upon the crop and disastrous effects upon the weeds is better than many other pest eradicators.

For instance, bots get into the stomachs of horses and no available remedy has yet been found. There are drugs which will kill bots, but they also kill the horse, which surely puts them into the class of undesirables. Besides this, bots themselves seldom kill the horse, according to the veterinarians.

The secret of growing good early tomatoes consists of getting the right kind and starting them early.

According to an address at a late bankers' convention there is a money stringency on the way here and due sooner or later, and it is because people are buying automobiles. He presented a string of figures which he said was from authoritative sources of the vast sums of money expended yearly on these pleasure vehicles, and said as a truism that withdrawing this money from business must surely bring on a stringency financially. For all that, prudent reader, if you have good use for an automobile and have the money to pay for it, get it if you wish. Running in debt for any luxury is foolish, and always was foolish, but this is done in all ages of the world.

The modern physiologists tell us that baked potatoes are more wholesome than boiled potatoes. They are subjected to a higher degree of heat, and therefore the starch is more thoroughly cooked and made more digestible. Well, a good baked potato does taste different from a boiled potato, and well baked bread different from that which is doughy.

The doctors agree that there is much of merit in the much boomed "Fletcherized cure." It consists simply in extra chewing of the food. Fletcher was a physical wreck, and made himself an athlete and has cured others by the same method who are unusually strong since adopting his system. And now a dairyman, a Wisconsiner, has gone to "Fletcherizing" his cows.

If extra chewing is good for the human animal it is good for others. He watches his cows as they chew their cuds. One will chew it say forty times before swallowing it and bringing up another cud, another will chew it fifty times, and still others sixty to seventy times. He finds that those which chew it the most get more nutriment from the food and give the most milk for the amount consumed. "Go to the ant, thou sluggard, consider her ways and be wise," said Solomon. He was not a dairyman. Go to the cow, consider her and see if

she is wise in chewing her cud. If not, get rid of her.

Is the "fast boss" a good thing or a bad thing? I have heard this discussed at live stock conventions, and most of the speakers thought a fast horse was one of the swiftest things known to take a boy to the infernal regions. Now the sporting men point with pride to the late King Edward, who was noted for his racing stables and his great love of the sport and say that this did not prevent him from being a good and great man. The fast horse may have his proper place, but I do not believe it pays to try to raise him on the farm. He must have special training, and a specialist is not an all-around man, and if the specialty is speed it is at the expense of something of greater general value.

Pulling up fence posts by hand is no light work in a dry spring like this. The job can be made much easier by using a pole as a lever with a chain hitch which drops down every time you raise the lever for a new "bite." Still easier is the way of pulling them out by horsepower. Hitch a chain around the post some three feet from the ground, set a short plank at an angle under the chain next to the post with the other end resting on the ground a short distance toward the team, let the horses pull and the post will come out with a pop. I like to

have the chain hitched to the rear of the wagon and then I load the posts into the wagon as fast as lifted out of the ground and they are ready loaded for driving in the new holes.

Corn was slow but sure in coming up this spring. I do not know of any early planted which did not take more than two weeks to get above ground, but at present it seems to have fairly good color and the farmers feel hopeful.

I notice that Prof. T. L. Haecker has had fodder corn analyzed to see how that planted late and thick compares with that planted when field corn is planted, and planted thin like field corn. He reports that when drilled in at the rate of about one bushel of seed per acre that the protein content is nearly double that of corn as ordinarily grown. Not only

is there more feed per acre, but it is better winter feed than when grown thin and planted early. But if to be husked for hogs that is another thing.

(Political Advertisement.)

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The average citizen is not interested as to who fills this place. In 1908, when there was a vacancy, caused by resignation, the court appointed from among a number of applicants, the present incumbent.

He is a courteous gentleman, prompt, painstaking and accommodating, he personally attends to the duties of his office from 7:00 a. m. until 6:00 p. m. the year round. Besides he served three years in Company G, 33d Iowa Infantry.

Then, why not vote for H. L. Bousquet for clerk of the supreme court, and give the court the man of their own choice? Look for his name on your ticket.—(Knoxville Journal.)

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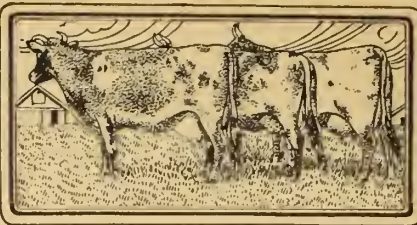
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BUTTER FAT OR FOOD PRODUCTION?

For many months the attention of the American public has been focused upon a consideration of the high cost of living. This, in many instances has amounted to a frenzy. In some cities boycotts on certain food products have been established and it is safe to say that in the great majority of homes substitutes of various kinds have been tried in an effort to reduce the expense of living. Many of these makeshifts were supposed, or at least reputed, to be quite as palatable and nourishing as real meat, milk and milk products, eggs, etc. This period of experimentation, will gradually pass away and a great consuming public will eventually realize that prices are high largely, if not solely, because the balance between consumption and production has not been maintained. It is a matter of history that men for several decades have been crowding away from the country into the cities and, as a result the supply of food products has not kept pace with the demand.

There can scarcely be any question, however, but what out of all this controversy will come a better understanding of how best to live. People are learning how to live more economically and how to make the very best use of the available food products. Heretofore, prices of farm products have been so moderate that there has perhaps been little or no necessity of economizing. We have in consequence been wasteful in our kitchens and in fact in every place where food products have been handled or prepared. People now are rapidly learning that many wastes which have been going on are quite unnecessary if not inexcusable. Then, too, there has been misunderstanding, if not ignorance, concerning the food values of various products. For example, the average consumer considers milk as being nutritious just in ratio to the amount of butter fat which it contains. No consideration of the other elements is made. To estimate the food value of milk upon this basis is, of course, to lose sight of some of its most important elements. Mr. Malcolm H. Gardener, superintendent of the Holstein-Friesian Advanced Register, in his weekly official reports has been endeavoring to awaken an interest upon the part of Holstein breeders in the inherent qualities of the product which they are producing. He recently wrote:

It must not be supposed that Holstein-Friesian breeders make little account of the solids not fat; for such a conclusion would be wide of the mark. But because the fat content is so easily determined—so readily separated from the milk in the cream and churned into butter, a disproportionate value has been given to the fat by the dairy public; her capacity for its production largely determining the sales value of a cow. Holstein-Friesian breeders, holding that their breed is an all-round dairy breed, equally useful in straight milk production for the city or the condenser, for the making of any and all kinds of cheese, for the production of veal or for cream and butter, willingly submit their favorites to any test the public demands, and are at present largely engaged in showing what can be done in butter-fat production for both short and long periods of testing. Butter-fat production is important, but food production is more important; and when the public turns to that branch of dairy husbandry for enlightenment, the Holstein-Friesian breeders will have their data ready, and will make a convincing showing that they have in their great dairy breed the most wonderful of food-producing means that is known. Animal food is necessary to the proper nourishment of mankind; but all over the world, animal food in the form of flesh and fish is becoming scarcer, its growing cost making it increasingly difficult for a large class of the people to obtain, so that more and more, eggs and milk, especially the latter, must be substituted. The people

must be educated as to the food value of milk.

Clean and wholesome milk is universally recognized as the very greatest life-giving product known to man. Of course, the greatest difficulty in the past has been, and now is, to obtain milk known to be clean and wholesome. Naturally many factors enter into the production, transportation and delivery of milk and milk products which tend to destroy their cleanliness and wholesomeness. In the first place, it costs money to produce this necessary cleanliness and heretofore, the consumers have not been willing to pay the added premium. Gradually, however, they are learning that they must pay prices commensurate with the cost of production if they are to have milk produced under ideal conditions. The dairyman of the future will undoubtedly receive a more reasonable return for the vast amount of labor expended by him in producing rich milk low in bacterial content and otherwise wholesome. Then, again, the machinery of transportation and delivery is being constantly improved. It is becoming easier and easier to keep milk in the condition in which it was drawn while carrying it from the farm to the kitchen of the consumer. Instead of in open cans we today deliver much of the milk in sealed bottles which are kept continually at low temperature. There is, of course, still very much room for improvement in methods of handling milk, but it is encouraging to know that the interest in the subject is keen and that producers and deliverers are doing their best to improve the quality and character of the milk supply. There can be no question but what the great consuming public will rely more and more upon milk as one of its main food products.

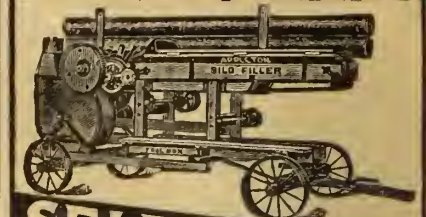
ABOUT VENTILATING BARNS.

To the Editor of The Homestead:

The following communication has been received from a Wisconsin subscriber:

Will you kindly send me some suggestions and plans as to a ventilating system for a barn? I have no system at present except windows and hay chutes which are not considered of much value. Should the horse stable be partitioned off from cow stable? I must feed the horses hay from the same alley, which will make it impos-

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Just a postal addressed to Gallopway of Waterloo, Iowa, will bring you everything postpaid.

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BALE 18 TONS A DAY HAY

Our "Cyclone" three stroke self feed hay press is the latest, most powerful and most efficient press on the market. Each circle of the team presses in three charges. The self feed automatically puts the hay down to the bottom of the bale chamber. These two improvements wonderfully increase capacity of our presses. Write today for circular and prices. Five days free trial.

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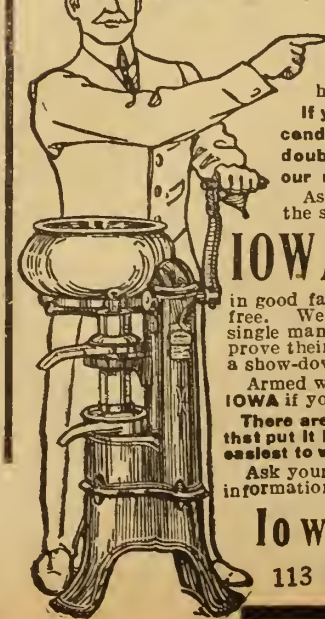


"Kant-Suk" Calf Weaners

are easily adjusted. Can not injure the cow or calf wearing it. Permits calf to graze, eat or drink; still effectively prevents sucking of cow. Calf size, 25 cents. Cow size, 35 cents at your dealer's, or sent postpaid on receipt of price. Address Wagner Specialty Co., Dept. A, Burlington, Wis.

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READ THIS! AND NOBODY CAN FOOL YOU ON A SEPARATOR



Every separator manufacturer will tell you that he has the best separator made and give you a lot of reasons why, that sound good.

Now here is the proposition that we make and that has sent our competitors up in the air—Read it:

If you can find any other separator that under the same conditions will skim to its rated capacity as closely as the double cored IOWA, we will make you a present of one of our machines.

Ask the manufacturer of any other separator to make you the same proposition made by the

IOWA DAIRY SEPARATOR

in good faith, and then you will get either his machine or ours free. We know what we are talking about. You won't find a single manufacturer who will accept our challenge. They can't prove their claims to having the best machine when it comes to a show-down.

Armed with our offer and this knowledge, you will buy the IOWA if you want the best machine.

There are many points about the IOWA besides close skimming that put it in a class by itself. It is positively the easiest running easiest to wash and most durable machine manufactured.

Ask your dealer. Write for our free book of surprising inside information on separators.

Iowa Dairy Separator Co.

113 Bridge Street,

Waterloo, Iowa.

sible to have it nearly air tight at all times.

To properly answer this request the writer has drawn a floor plan of his stable (shown at Fig. 1), also a cross section of an imaginary barn (Fig. 2) showing the vent shafts as usually built in the so-called King system. Ventilation in the barn for horses, sheep, feeding stock, etc., is not of so much importance as it is for milk cows, but for the cows it is very important not only as to health, but for the benefit that is to be derived from them. Ventilating stables is not as many seem to think, a job that calls for high-priced experts, but at the same time there are certain essentials

covered with wire screens, and to keep the stacks free from dust, dirt and spider webs, tight-fitting doors should be located at convenient points. Possibly of the many systems in use that operate without power fans, the two that are best suited for the ordinary barn are the King system and the English Sheringham system. Fig. 2, a cross-section, shows how the fresh air is admitted at B, some distance below the direct opening into the barn. To prevent a strong current of air from blowing in at any time, as shown by the darts, the air flows along the ceiling and is distributed over the room, and sooner or later becomes charged with the gases

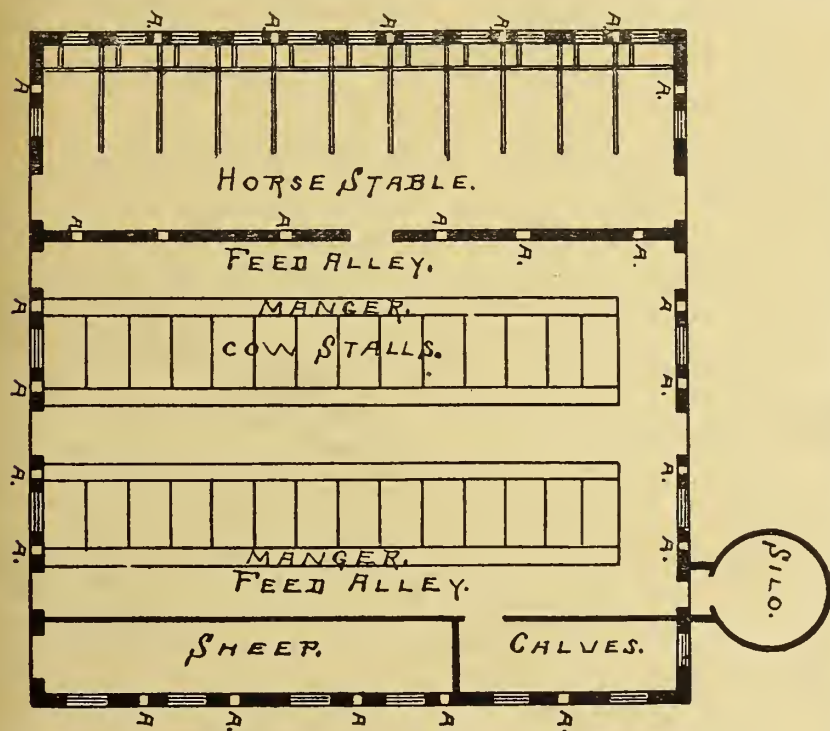


FIG. 1. GROUND FLOOR PLAN.

which must be observed. In the first place, to give satisfaction the building should be sufficiently large to provide about 500 cubic feet of air space for each full-grown animal. Next, it must be remembered that the stock must generate a certain amount of heat or the air on the inside will be of the same temperature as the air outside of the building, and there should not be any noticeable movement of air through the stacks or air shafts. Again, it must be remembered that the stock throw off and generate more or less gas; this gas carries in suspension more or less moisture and is heavier than the air admitted through the fresh-air shafts, and will

from the stock and is crowded by the fresh air down to the floor, where it enters the foul air shaft at point A and is carried out through the shaft on the roof. On the floor plan these shafts are shown by the letter A and should be located on all sides of the building, both the fresh air shafts and the foul-air shafts. In this system as well as all others dampers should be located in all stacks or shafts that will operate to close or open them at all times. The stacks should be as tight as possible, but it is not necessary to have them overly large. It is much better to have more stacks. For instance, a stack built between 2x6-inch studding will have an area of

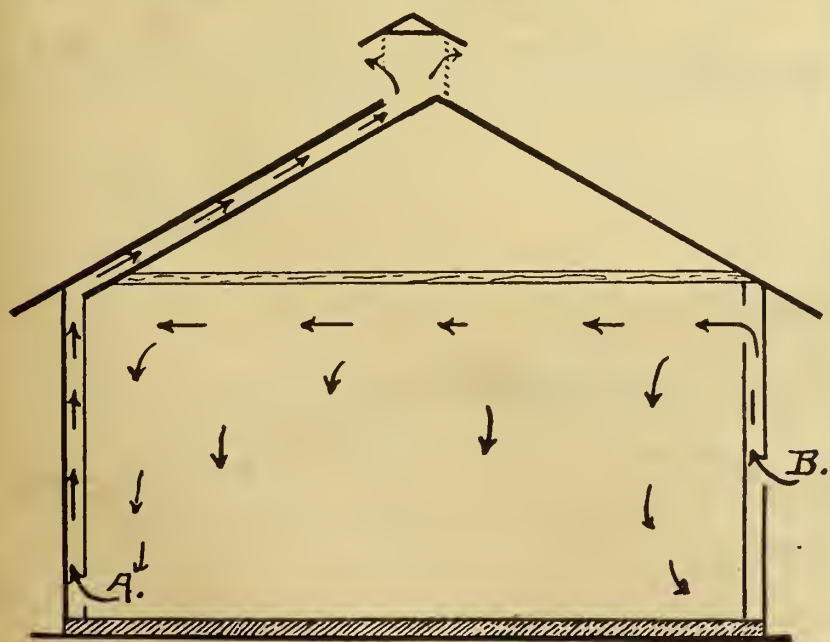


FIG. 2. CROSS SECTION VIEW OF BARN.

sooner or later fall to the floor. Thus the foul-air shafts should have the openings located at or near the floor line and not at the ceiling line as is sometimes the case. As above stated, the foul air holds in suspension some moisture and will soon rust out iron or steel. This being true sheet metal should never be used for making the shafts or for lining them, for they also will at times sweat very badly and soon rust out. To keep out birds, etc., the outlets and inlets should be

more than 125 inches. If the studs are set twenty-four inches on centers no room is wasted and the stacks will not be injured by passing cattle. By building the stacks about eight feet apart for a building not over thirty-four feet wide the system will provide an abundance of air. Two or more main vent shafts may be located on the roof, but they should equal in size the capacity of the smaller stacks. In the Sheringham system the windows are placed where necessary and

A JUNK PILE MOUNTAIN OF VERY EXPENSIVE CREAM SEPARATOR EXPERIENCE



(A sample pile of scrapped competitive separator bowls—the frames being broken up in the field to save freight on same.)

During the year 1909 more than 10,000 enlightened and disgusted American users of poor or wornout competitive makes of separators threw them aside and replaced them with new

DE LAVAL CREAM SEPARATORS

on top of 8,500 having done so in 1908, 7,000 in 1907 and 5,000 a year for several years before, or at least 50,000 within ten years.

If it were possible to put these 50,000 machines into one huge "junk pile," as they have in fact gone into a thousand "junk piles," it would make a veritable mountain of cream separator experience, as impressive as Pike's Peak and representative of as much costly acquired separator experience as though it were a great mine of gold or silver.

These 50,000 "near" and "just as good" cream separators cast aside to be replaced with De Laval machines within ten years, and so many of them within a couple of years, cost their users at least three and one-half millions of dollars in the first place and probably wasted three times that much in quantity and quality of product, excessive repairs and excessive time required to put the milk through them while they were used, or a total of at least fifteen millions of dollars and more likely twenty-five millions.

What has happened in America in this way has in the same time been doubled throughout the rest of the world, so that the total aggregates twice as much, or perhaps fifty millions of dollars. And worse still, this accounts only for those users who have recognized the facts and remedied them. There are thousands more users of inferior separators who have yet to do so, and unfortunately some yet embarking anew on this expensive separator experience of their own.

These figures are monumental, but they deal with a problem of enormous importance to everyone who has cream to separate from milk, which the average man can better appreciate put in this collective way than he can when applied to himself alone, though it means exactly the same thing one way or the other.

The facts are all capable of proof to the man who cares to have them proved and who doesn't want to contribute at his own expense to this enormous and ever-increasing "junk pile" mountain of cream separator experience, or better still, to the man who has been doing so and thinks it about time to stop.

To such owners we would say that the De Laval Company will this year continue its "trade allowances" for these old machines, because of the opportunity such exchanges afford in an educational way for the most practical illustration possible of the difference between good and poor separators, and thus putting a stop to the sale of others like them in the same neighborhood.

Any desired "trade allowance" information may always be had of the nearest De Laval local agent or of the Company directly.

THE DE LAVAL SEPARATOR CO.

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swung from the lower edge on hinges swinging inside, and the sides have guards to keep out side drafts. The air strikes the window and is deflected up to the ceiling, thus preventing a draft of air from striking the stock. The foul air is carried out the same as described for the King system. The latter system will give good results in the hands of a careful operator, but will require looking after with each change of weather. The stacks are possibly best built of narrow flooring, but the writer prefers a shaft or stack plastered with one or more coats of Portland cement plaster. It is practically air tight, requires no repairs and should you by accident damage the cement, it is easily repaired. The stack is first covered with shiplap stripped with lath and the lath in turn covered with metal lath which receive two coats of the plaster. No ventilating system will give good results unless the outer walls of the barn are fairly tight, and we recommend that in new work the walls be of cement over metal lath. This gives the best satisfaction and does not require painting every three years.

J. E. Bridgman.

SUMMER MEETING OF GUERNSEY BREEDERS.

The Western Guernsey Breeders' Association will hold its next annual summer meeting at Brook Hill Farm, near Genesee Depot, Wis., on Thursday, June 9, 1910. This farm, the property of Maj. Howard Greene, of Milwaukee, and so ably managed by David W. Williams, is considered one of the model Guernsey farms of the West. It is so easily accessible from

all points that a large attendance is expected. Genesee Depot is on the Janesville-Milwaukee branch of the Chicago, Milwaukee & St. Paul railway. The farm may also be reached from Wales, which is on the Madison-Milwaukee branch of the Chicago & Northwestern railway. Those in attendance at this meeting will be favored with an address on the forward movement in dairying by Professor Hugh G. Van Pelt, of Iowa, and a talk by Judge W. B. Quanton, of Algona, Iowa.

FARM HOMES FOR THE HOMELESS.

(Continued from page 6.)

to the soil. A philanthropist, for example, who has \$50,000 he desires to invest in the encouragement of farming can turn the money over to us and we can carry out his wishes and pay him 4 per cent interest on his investment. Or a man who has a large tract of land similarly can turn it over to us on satisfactory terms. We can plat the land and handle it, and place men and their families on it. The fine results of our plan ought to be the difference between success and failure to the individual farmer.

"We will furnish the experts on our central farm, and the facilities, and the man who otherwise would fail, being isolated from these things, would succeed. Besides giving those who otherwise could not obtain farms a chance to procure them by an easy payment plan, we furnish through our central farm unit the further incentive of schools, churches, libraries and social intercourse, the lack of which is driving so many from the soil and discouraging those who undertake the life. Our community plan will obviate the feeling of isolation that is the great drawback now."

Governor Hadley was by no means alone in his enthusiasm. Archbishop Glennon, head of the Roman Catholic church in Missouri, attended the meeting and told his experiences in establishing two or three similar colonies on a small scale. The archbishop is decidedly favorable to the plan and will exert his influence toward its fruition. Rabbi Harrison, a noted Jewish leader, was another enthusiastic speaker, declaring that "back to the soil is forward to prosperity." Carl R. Gray, first vice-president of the Frisco railroad, commended the plan for its helping men without cheapening them. Letters of approval and of promised interest or co-operation were received from Dr. Lyman Abbot, of the Outlook; John D. Archbold, of Standard Oil; Miss Sophie B. Wright, of New Orleans; Senator Dolliver, of Iowa; Secretary Nagel, of the Department of Commerce and Labor; Governor Hughes, of New York; Governor Willson, of Kentucky, and others. The secretary of the Ontario-Canadian Parliament sent a telegram of inquiry for more details, saying that the parliament was deeply interested in the project.

Actual, practical results of the movement will not be forthcoming this summer, but it is hoped that before autumn philanthropists will have been interested in the experiment to the extent of contributing sufficiently to start at least one colony unit next spring. It is highly probable that the experiment will be tried out in Missouri first, although in other states conditions are equally favorable to it. Governor Hadley and Mr. Curran are conceded to be the most enthusiastic workers in the cause. Both are sincere in their efforts to remedy conditions by getting city people who have some farm knowledge, or who are capable of absorbing practical farm knowledge readily, back to the land where they can become self-supporting. The experiment will undoubtedly be watched with interest by hundreds of people who are interested in sociological affairs, and should the first colony be successful, others will shortly be forthcoming.

Lewis' Single Binder, straight 5c—many smokers prefer them to 10c cigars.

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Special low rates via the Chicago & North Western Ry. on convenient

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AN UNPARALLELED OFFER

TO INTRODUCE THIS HANDSOME 5-Passenger Touring Car AT \$950.00

THE "NORWALK 24"
Craceful, Luxurious, Powerful, Speedy.
THIRTY-SIX INCH WHEELS

Don't Make A Mistake

About the kind of car the "Norwalk" really is, and compare it with the ordinary cheaply constructed, cheap looking machines which are sold at some where near this special introductory price.

The "Norwalk" is a finely appointed, beautifully designed and finished, up-to-the-minute automobile; both in appearance and operation the equal and in many cases the superior of well-known machines selling at several hundred dollars more than our introductory price.

The "Norwalk" has a motor, developing 25 horsepower, (real, not assumed) which is simple, reliable and trouble free, and ample power to carry it over the country with its full load, up hill and down, and do it consistently and satisfactorily.

Its high wheels (36 inches), large tires (3 1/2 inches), long wheel base (102 inches) and very flexible spring mounting (full elliptic double end scroll in the rear, 3-4 elliptic in front) give it easy riding qualities which cannot be excelled by any car at any price and allows it to skim over rough and uneven country roads without injury to machinery and with the least possible inconvenience to occupants.

Its transmission gear is our own special design, so constructed that it is not liable to injury from improper handling. Gears are in oil and dust tight case and in continual bath of oil, insuring long life and smooth operation.

Has new type irreversible steering gear which will not go back on you and by which the car is easily controlled at high speed on rough roads. When you consider that a large majority of automobile accidents are caused by faulty steering gears you will appreciate how important is this feature.

Built For Hard Service

The "Norwalk" is constructed throughout with a view of its meeting the demands of the man who expects good hard service and who has occasion to get away from city pavements and macadamized highways, yet its qualification for speed—45 TO 50 MILES PER HOUR, and its handsome, snappy appearance make it perfectly at home in the most select company.

Disregard the advice of the solicitous "wise ones" long enough to compare the "Norwalk" point for point with anything else you know of on the market at anywhere near our introductory price, paying particular attention to such items as Power, Wheel Base, Size of Wheels, Size of Tires, Mounting, Gear, Speed, Appearance, etc., and you cannot help but agree that here is an opportunity which you cannot afford to ignore if you are interested.

NORWALK, OHIO.

OUR PLAN

This 1911 model, roomy, high-powered touring car is the equal in speed, style, equipment and durability of any \$1,500 car and is better than some \$2,000 cars. Our offer of \$950 is good for one sale in each neighborhood. Every Norwalk receives a rousing reception, creates an immense amount of favorable comment, and will bring us more sales from the neighborhood into which it goes at our regular price—each is a continuous advertisement. This is the reason for our unusual offer. Why not be the lucky one of your vicinity? The limited number which we are able to supply this year will soon be gone. You will have to act quickly.

How To Get One

Write today enclosing a deposit of 25 per cent, or IF YOU DO NOT WISH TO BUY UNTIL AFTER YOU HAVE HAD AN OPPORTUNITY TO PERSONALLY EXAMINE THE CAR, then we will invite you to come to our factory and will AGREE TO DEDUCT THE AMOUNT OF YOUR TRAVELING EXPENSE FROM PURCHASE PRICE OF CAR, if you buy, or, if the car is not as we represent, THE BIGGEST VALUE YOU EVER SAW AT THIS SPECIAL PRICE, then we will still pay your traveling expense, so that you will be out nothing but your time either way.

Before you come, however, write us, as we do not care to put two cars in any one community at this price. Personally, we would rather have purchasers of these sample machines come to our factory, see how they are made and convince themselves that this is the biggest bargain ever offered in automobiles. **WHATSOEVER YOU DO, ACT QUICKLY. FOR THESE FEW CARS WILL NOT GO VERY FAR TOWARDS FILLING THE DEMAND, ONCE THEY START GOING.**

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Find positive pleasure in

Post Toasties

—a crisp, appetizing, dainty food for breakfast, lunch or supper. Always ready to serve right from the package with cream or milk and always enjoyed.

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Pkgs. 10c. and 15c.
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will insure a generous supply of water when and where you want it, no matter where the well or spring may be located.

They are durably made, moderately priced and cost little to keep in order. Built to meet every condition and service. Write for our free book.

"Water Supply for the Home"

It will tell you how best to solve water supply problems—pumps \$3.00 to \$300.

When you buy a pump see that it bears the name "GOULDS."
It is a guarantee of satisfaction.

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AT PRICES NEVER BEFORE HEARD OF

If you are interested in concrete machinery of any kind send quick for my new catalog just off the press. It illustrates and describes machines for making all kinds of building blocks, silo blocks, chimney blocks, bricks, fence posts, tile, etc., and quotes prices that will astonish you. There is big money to be made right now in this line of business and it requires very little capital to start. Please remember these are all standard high-grade machines and are guaranteed from 30 to 50 per cent lower in price than others sell for.

GET THIS FREE CATALOG at once. It is filled with useful information about this wonderful new method of building, and is a real instruction book for those who lack experience.

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From Loss to Profit

Your cows waste time and strength during the summer fighting flies and other pests and their milk supply goes much below normal. Turn this loss to profit; spray cows daily with

Great Western Fly Chaser

—then they'll peacefully spend all day eating grass, getting nourishment and making milk. Creel Western Fly Chaser gives instant relief. It cleanses the skin, heals sores, kills germs and is entirely harmless. One gallon protects 500 cows. Use it on your horses and abolish fly nets. Put up in quarts (35 cents), half gallons (60 cents), and gallons (\$1)—at your dealer's. Insist on the genuine—Creel Western Fly Chaser. If your dealer won't supply you, send us \$1.50 and we'll send you a full gallon, express charges prepaid.

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"THE KIND YOU'LL KEEP ON BUYING"

SPECIAL OFFER. If you will send us the names of a few of your neighbors who use Binder Twine, Hay Rope, etc., we will mail you a proposition that will enable you to secure absolute best factory prices, based on ACTUAL FACTORY COST on our following lines: BINDER TWINE, HAY ROPE, CORDAGE and ROPE of every description; also on High Carbon Woven Wire Fencing, Genuine Glidden Barb Wire Weatherproof Rubber-Felt, Flint Surface and Gravel Surface Ready Roofing. Satisfaction or money refunded. Write now and we will mail you our Complete Catalog and Special Offer. For your convenience we have quick service warehouses at Chicago, Ill., Minneapolis, Minn., Kansas City, Mo., Omaha, Neb., Dayton, O. Address COOPER CORDAGE CO., Chicago, Ill., or Minneapolis, Minn.

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Builds stacks 25 feet high and 50 feet long. It will handle satisfactorily alfalfa, prairie hay, timothy and clover. Places the hay on the stack in such shape that it is handled easily. Especially adapted to work in windy weather, and requires less labor on the stack than any of its competitors. We are also manufacturers of the famous Columbia Sweep Rake. Address JOHNSON BROS. MANUFACTURING CO., CHARITON, IOWA.

dates during the summer months to Chicago, Milwaukee, Detroit, Saratoga Springs, Niagara Falls, Washington, New York City, Atlantic City, Boston and points on the Atlantic Seaboard, account National Conventions. Summer tourist rates daily to all

seaside and mountain resorts in the east.

Direct connections at Chicago with fast trains of all lines east. Choice of routes. For information apply to any ticket agent of The North Western Line.

Lightning Protection and Fire Insurance GET BOTH

for the cost of one—double protection for your home and family. First, prevention, then insurance. Lightning causes three-fourths of the fires in the country. Avoid 3 of the 4 fire chances. Fire insurance companies will grant you a reduction of 10 to 33% per cent. on your insurance if you protect your buildings with D. & S. lightning rods.



Fire insurance companies can well afford to make the reduction. They know that D. & S. lightning rods do control lightning.

Prof. West Dodd is the
Inventor of the D. & S.
System. Over 2000
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panies endorse him.



Let Us Send Proof

You can't afford to be without this double protection. Prevention is better than compensation. Remember there's no compensation for the dear ones killed when your house is destroyed by lightning. No other lightning rod concern has the unanimous endorsement of insurance companies. Write for proof and Prof. Dodd's great Lightning Book, "Laws and Nature of Lightning."

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PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

PARALYSIS.

I have a neighbor who has some fall pigs that get lame in one of the hind legs first, and then become lame in both and walk on the lower joints and lie down most of the time. Can you tell me what is the cause?

Paralysis in hogs may be due to any one of a number of different causes. Very often it is akin to or associated with rickets in which disease the bones lack sufficient earthy material to make them strong enough to hold up the growing body. Malnutrition is the cause of that trouble. Worms often induce it in susceptible pigs. Corn feeding in excess is a fertile cause. Change feed to clover, grass, or rape and feed light slop of milk, middlings, flaxseed meal and a very little corn meal and to this add once daily lime water at the rate of one ounce to the pint. Allow hogs free range.

NERVOUSNESS.

I have a black horse, five years old, good, true and tame, but every time I speak to him, or when unhooking tugs he will switch his tail very hard. When driving him he will wiggle only when I speak to him and in case he catches the lines he never acts badly nor tries to kick.

The habit seems unimportant and having become chronic cannot be cured by treatment. It may evidence nervousness rather than vice. We cannot suggest a cure.

SELF-SUCKING COW.

We have a young cow that calved the first time in March and the calf was disposed of two weeks ago. A few days thereafter the cow began to suck herself. Can you suggest some method to break this self-milking habit? She has been milked regularly twice per day and at practically the same time each day.

Sometimes rubbing a mixture of equal parts oil and powdered aloes on the teats daily for a few days breaks up this habit; or mechanical means may be used, such as a "brace-let." This is made of pickets or laths sharpened at both ends and woven with smooth wire as for a fence. Put this around the neck and fasten there so that when the cow bends her head around to suck the points will jab her and make her quit. A spiked strap around muzzle also is used.

USING YOUNG STALLION.

Will you please tell me how many mares it would be safe to breed to a stallion that was two years old the 12th of April?

It would be better not to breed any mares; but if you must use him he should not serve over ten to fifteen.

BONE TUMOR.

I have a large two-year-old mule, and on March 30th I noticed an enlargement on the right side of his head, two inches below the eye and extending to within three or four inches of the nostril. The lump is hard. I first thought he was taking distemper, but found he had two wolf teeth. These were removed and he was blistered with caustic balsam. This was repeated in about two weeks, but with no effect. What is the cause of this enlargement?

Wolf teeth never cause such swellings; neither have they ever any effect upon the eyes. The swelling may be due to teething and if so may subside in time and that will be hastened by the use of blisters. Or it may be "big head" (osteoporosis), for which there is no cure. Keep on blistering the part lightly once a month.

NAVEL DISEASE.

Will you tell me what to do for navel trouble in colts? They get to be about two weeks old and then the navel gets sore. Sometimes a pus forms there, which sometimes gets hard. Some colts drip at the navel, but others do not. Will you tell me what to do for them?

See article on the subject in a recent issue of the paper. It was a summary of the circular of information on the subject by Dr. A. S. Alexander, veterinarian of the Wisconsin Agricultural Experiment Station. Send to him for a copy. The circular is No. 13. The mare should foal in a clean, disinfected, fresh-bedded box stall and the navel should at once be saturated

with a strong solution of corrosive sublimate. Two drams of sublimate to the pint of boiling water, used cold, is advised. It should be reapplied twice daily until the navel is perfectly healed.

MARE MULES—LAMPAS.

(1) Is there a remedy for keeping mare mules from coming in heat? (2) Can you give me a remedy for lampas?

(1) We cannot suggest a cure. (2) Lampas is merely a swollen condition of the hard palate in sympathy with like swelling of the gums and entire buccal membrane of the mouth. It usually indicates need of having horse's teeth attended to by a veterinary dentist. In colts allow some hard ears of old corn to chew on and if necessary swab mouth twice daily with a solution of half an ounce of powdered alum to a quart of water. Do not burn or scarify swellings.

SUSPICIOUS CASE.

I would like to have your advice as to the trouble and cure of one of my horses. He is eight years old and his left hind leg, from hock down, has been swollen about as large again as it should be. Early in spring it broke out in large pimples and small particles of matter came out of these places. I bought this horse last spring and have not treated it in any way except to wash it with a solution of coal-tar dip two or three times. So far as I can learn, this horse has been this way for about a year and the party I bought him from says it was started by a kick from another horse. Any information will be greatly appreciated.

The symptoms strongly suggest farcy, the skin form of glanders, and that being the case we would not feel justified in prescribing treatment. A graduate veterinarian should be called in to make a diagnosis, as the disease, if present, has to be handled according to state law. It is incurable and fatal and is communicable to man as well as horses.

BLEACHED FLOUR CONDEMNED.

Flour bleached by the Alsop process contains added poisonous and added deleterious ingredients which render the flour injurious to health.

Flour bleached by the Alsop process contains a substance known as nitrites, which reduces, lowers and injuriously affects the quality and strength of the flour.

Flour bleached by the Alsop process is mixed, colored and stained in a manner whereby damage and inferiority are concealed.

For these reasons flour bleached by the Alsop process is adulterated within the meaning of the Food and Drugs Act of June 30, 1906.

So decided Judge Rufus E. Foster on March 15, 1910, in the case of the United States of America, Libellant, v. 420 sacks, et al. of Flour, in the United States District Court for the Eastern District of Louisiana.

In a circular containing this information for "manufacturers, venders, and consumers of bleached flour," Secretary of Agriculture Wilson adds that "flour bleached by nitrogen peroxid is an adulterated product; * * * that the character of the adulteration is such that no statement upon the label will bring bleached flour within the law; and that such flour can not legally be made or sold in the District of Columbia or in the Territories, or be transported or sold in interstate commerce."

The old tradition in Europe that princes must follow the military profession does not apply today in the Danish royal family. It has been settled that Prince Erik, nephew of the King of Denmark, the King of Greece and the Queen of England, shall be a farmer. He will go to Fionie soon to join a farmer's family there and learn to be an agriculturist. This was the desire of the prince's mother, who died a few months ago. She also desired her younger son, Prince Viggo, to join the East Asiatic Company, a shipping firm in which she had a large money interest.



**I'll Feed Your
STOCK
60
Days**

**Before You
Pay Me a Cent**

I simply want an opportunity to show you on your stock BEFORE you pay me a cent, exactly what

SAL-VET

The Great Worm Destroyer and Conditioner

will do for them. I want you to know from actual experience, before you pay, how surely it rids them of worms—(the cause of 90 per cent of diseases and deaths)—how quickly it will stop your death losses, especially among lambs, sheep and hogs; how it saves feed; puts stock in the finest condition—makes them thrifty, healthful and profitable. Sal-Vet is a medicated salt, which is put where the stock can get it at will, and they doctor themselves. No drenching.

Prof. C. S. Plumb of the Ohio State University, College of Agriculture, Dept. of Animal Husbandry, writes:

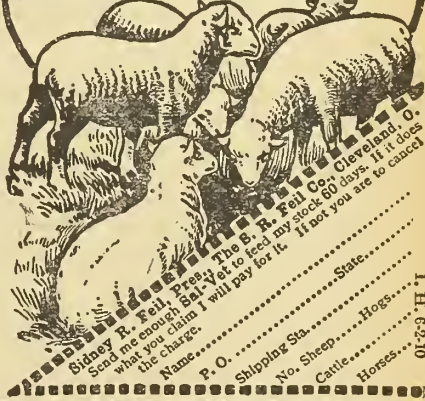
"The 'Sal-Vet' which you sent us has been used with excellent satisfaction. While we have no definite information as to the absolute effect on our sheep, they consumed the preparation with results which appear to us to corroborate your statements that it is desirable material for discouraging the development of worms, and keeping the sheep in good condition."

Send Me No Money

All I ask is a chance to prove my claims. You have nothing to risk—everything to gain so send in the coupon today.

Sidney R. Fell, Pres.
The S. R. Fell Company, Dept. I-A.
Cleveland, Ohio

Prices: 40 lbs. \$2.25; 100 lbs. \$5.00; 200 lbs. \$9.00; 300 lbs. \$13.00; 500 lbs. \$21.00



Send me enough Sal-Vet to feed my stock 60 days. I do not want to cancel.

Name..... State.....

P. O. Shipping St. No. Sheep..... Hogs.....

Cattle..... Horses.....

Send me enough Sal-Vet to feed my stock 60 days. I do not want to cancel.

Don't Have a Blind One

"VISIO"

An Absolute Cure for
Moon Blindness

(Ophthalmia), Cataract
and Conjunctivitis
Shying horses all suffer from diseased eyes.



A trial will convince any horse owner that this remedy absolutely cures defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO" under our GUARANTEE. Money refunded if under directions it does not cure. \$2.00 per bottle, postpaid on receipt of price. VISIO Remedy Ass'n, Dept. D, 1933 Wabash Av., Chicago, Ill.

Let Me Pay the Postage on My Big FREE Book to You

This is just a little ad but it will bring you my Big 1910 Book Free—3 cents postage paid by me. Show you over 125 styles and save you \$26.50 or up if you'll

Write a Postal
See my Split Hickory Auto-Seat, color-illustrated in book. Prices will astonish you. All sold on 30 Days' Road Test—2-Year Guarantee. Also harness. Write me now.

H. C. Phelps, Pres.
The Ohio Carriage Mfg. Co.
Sta. 31, Columbus, Ohio

2 Grand Prizes

and 5 Gold Medals

all the Grand Prizes and all the Gold Medals given to Pump by the Alaska-Yukon-Pacific Exposition at Seattle last summer. Were awarded to "AMERICAN" Pumping Machinery.

The reason why "American" centrifugals attain higher efficiencies than others is the impellers are accurately adjusted and machined true to fit the casing and the flowlines are all easy curves with no sudden change of direction of fluid in passing through the pump.

"American" centrifugals are made in any size, equipped with any power and guaranteed rigidly. Complete Catalog No. 104 Free.

The American Well Works
Office and Works: Aurora, Ill.
Chicago Office: First National Bank Building.

FREE Why not make your hogs and other stock pay better this year than last?

BURDICK'S RENOVATING SALT

Will do it. Write today and I will mail you 25 best Stock Recipes in the world FREE, and tell you how to receive the first 100 lbs. of Burdick's Renovating Salt without one cent of cost. I cannot afford to make this offer more than once, so write today. Dr. J. H. Burdick, Sandwich, Illinois.

A. S. ALEXANDER, V. S.
MADISON, WIS.,
Veterinary Editor The Homestead.

CONSULTING VETERINARIAN. Advice and prescription by mail, \$1.00.

When writing mention this paper.

DR. DAVID ROBERTS
Fly Oil
Use Fly Oil Freely. Animals sprayed in the morning with Fly Oil will be protected from flies and insects for the entire day. Order direct if we have no dealer in your town. Ask for Dr. David Roberts' book, the Practical Home Veterinarian.
Dr. David Roberts Veterinary Co.
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KENDALL'S SPAVIN CURE
Never failing cure for Spavin, Carb, Splint, Ringbone, all Lameness. Also a great family liniment. \$1 a Bottle. \$5 for \$5. Ask druggists. "Treatise on the Horse" free. Write to Dr. B. J. KENDALL COMPANY, Enosburg Falls, Vt.

HORSES
Going Blind, Bary Co. Iowa City, Ia. Can Cure.

SEED CORN OF HIGH TEST

To our customers in central and southern Iowa, northern and central Illinois and Nebraska we offer the following splendid varieties:

Reid's Yellow Dent - (test 93%)
Iowa Silver Mine - - (test 91%)
Iowa Gold Mine - - (test 89%)
Legal Tender - - - (test 93%)
Pride of the North - (test 93%)
White Cap Yellow Dent (test 82%)

PRICE—1 bu. \$3; 5 bu. at \$2.85; 10 bu. at \$2.75; 25 bu. at \$2.50; bags free.

If not exactly as represented, your money cheerfully refunded. Write today. Address

THE ADAMS SEED COMPANY
BOX 1, DECORAH, IOWA.

WINDMILL INSURANCE

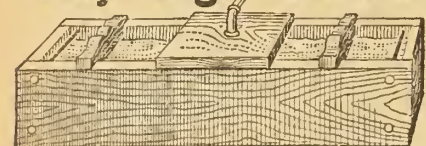
WHAT'S the use of wasting good money on a windmill outfit for the wind to down when you can just as easily, and for about the same price buy an outfit which its manufacturers, for a nominal fee, will insure for five years against tornadoes, cyclones, run-away teams—in fact against anything and everything except willful act or willful neglect.

The Goodhue Windmill

is the only windmill made that is so insured, because the Goodhue is a windmill that is built right. A postal card will bring you the proof and a free book in which you will find more practical information about wind mills than can be obtained from any other source. **WRITE TODAY.**

APPLETON MFG. CO.
39 Fargo St., Batavia, Ill., U.S.A.

"Only" Hog Waterer



THIS ONLY does the business both winter and summer. No clogging, no overflow, no bother. We offer you a free trial. Write for booklet, "How to Raise 1,000 Hogs a Year."

ONLY MFG. COMPANY, Lock Box 67, Calhoun Station, Inwarden, Iowa.

HIGHEST MARKET PRICES FOR WOOL

REMITTANCES PROMPTLY MADE.
WRITE US GRADE AND CONDITION.
CONSIGNMENTS SOLICITED.
CAPITAL CITY WOOLEN MILLS,
Des Moines, Ia.

PRICE TALKS

\$17.95 Buys this \$25.75 Tolman B Steel Range No. 8, with high closet and reservoir just as shown. Guaranteed five years. Owing to this remarkable low price, we can only fill orders cash with order. Ref. Guarantee Trust & Sav. Bank, cor. Green and 63d Sts. J. Allen & Co., 7111 Halstead St., Chicago

OLD TRUSTY

—300,000 men, women and children, beginners and old timers, are now making big money with the Old Trusty **INCUBATOR**. Let me tell you about my 30- or 60-day free trial and 10-year guarantee offer. Write me a postal now.
M. M. Johnson, Clay Center, Neb.

BOOK FREE

STRAWBERRY Plants—Special price June 20 to 30th; 100 prepaid 70c; 100, 50c; 300, \$1; 1,000, \$2.50. Circular free. Chas. J. Mackey, West Liberty, Iowa.

POULTRY DEPARTMENT

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

EGGS IN COLD STORAGE

With the arguments now being advanced for a restriction to the cold storage business, it is perhaps interesting to know that during the spring season, 5,000,000 eggs a day pour into Chicago and thence into the storage warehouses. Few persons realize the magnitude of the egg industry. It is larger in point of dollars than the beef business, and runs around the half billion mark. Eggs come next to corn and wheat in the food items of our country, in the total value of the annual business. Chicago's egg business probably amounts to about 1,500,000,000 eggs a year.

April eggs are each year stored to be kept to supply the deficiency in November and December. This is done for very good reasons. April or early spring eggs are "good keepers." Summer eggs are, as a rule, not in good enough condition to store.

In the height of the storing season, an average of 7,000,000 eggs a day are received in Chicago. That is about fifty car loads. A car contains 400 cases, and a case contains thirty dozen, or 360 eggs. Fifty car loads contain 20,000 cases. There have been times when the Chicago receipts reached 40,000 cases in one day.

When the receipts in the spring reach 20,000 cases per day, the cold storage men start to put the eggs away for use in the fall and early winter, when the supply falls far below the demand. In the city of Chicago alone the normal average egg appetite calls for about 2,000,000 eggs per day. The spring is considerably more, seldom falling below 3,000,000. In addition, great quantities of eggs are shipped from Chicago to other points where the same spring appetite is in working order. This is why a supply of 6,000,000 or 7,000,000 eggs per day is necessary in the spring before there is any surplus left for storage.

ANOTHER EGG RECORD.

To the Editor of The Homestead:

In your poultry department recently E. L. Vincent gives an account of a farmer's wife who got fifty-five and one-half dozen eggs in March from fifty chickens, and he says it is a "pretty good record." Now I am also a new hand at the poultry business, as it is only two and a half years since I bought my first chickens. I knew nothing about them and am what the neighbors call a "book farmer," but I have made it pay and can better that record a good deal, as I got seventy-three dozen eggs in March from fifty-five hens and in April, eighty dozen from forty-seven hens. These are common scrub hens working without a male, as I am changing to pure-bred Leghorns for next year. I feed liberally on wheat or corn in the morning and a mash of bran and ground feed with a good spoonful of beef meal at night. I mix the mash with skim milk or buttermilk if I have it. I have a "curtain front" chicken house and like it very much. **M. J. S.**

Chippewa county, Wis.

HOW TO SAVE INCUBATOR CHICKS.

On account of the numerous inquiries regarding incubator chicks, we reprint the following letter:

"Dear Editor:—I have been in the poultry business eighteen years and have lost thousands of incubator chicks with bowel trouble. Having found a remedy, I want to tell others through your columns. I saw Walker's Roup and Cholera Remedy highly recommended, so sent a fifty-cent money order to the Walker Remedy Company, Dept. U 11, Lamoni, Iowa, and received a package postpaid. I took off a hatch of 100 chicks March 10th and gave them the medicine occasionally. By April 15th, I had lost only four and the rest are all doing fine and nearly feathered. I also saved a pen of val-

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

HURRY—If you want your choice of the selected bargains in Hampden farms. North Dakota lands are in unusual demand this year. Busy? We are up to our eyes in work, answering inquiries and showing lands. If you haven't yet sent for our interesting literature on this favored section, where choice improved and unimproved farms may be had at \$25 to \$35 an acre, write today. Agents wanted everywhere. Shipley Investment Co., Box 303, Hampden, Ramsey County, North Dakota.

CANEY RIVER Valley home. Corn, wheat, alfalfa, the very best soil. Get out the old plodding community into this hustling new state, where man of moderate means has chance and the man of large means golden opportunities. I will sell you land right in the oil gas belt of Rogers County, Oklahoma. You stand good chance to make fortune on oil or gas. For particulars write W. B. Herriman, Room 14, Woodbury Bldg., Marshalltown, Ia.

WHEN YOU GET tired of paying rent or make up your mind it's slow work buying a high-priced farm, or decide to locate where opportunities are wider; where, in a few years, you will be a rich man, with your land bought low, advancing rapidly in price, then write to us about our holdings here in this garden of North Dakota, offered on the easiest terms you ever saw. Shells & Weaver, 103 Main St., Edgeley, North Dakota.

"DRY FARMING" lands in Colorado can be bought for \$5 to \$25 an acre. Average yields are 10 to 25 bushels wheat; 20 to 50 bushels oats; 10 to 45 bushels barley, etc. Good hog-raising and dairying lands; fine climate. Write for information to the State Board of Immigration, Room 21, State House, Denver, Colorado. We are supported by the state and sell no lands.

SOUTH DAKOTA—Are you interested in South Dakota, the state that is leading all other states in the production of wealth per capita? If so, send for free literature on Brule County and South Dakota. No agents need apply. I sell direct to purchasers, who save from \$1 to \$5 per acre commission. J. A. Stransky, Pukwana, South Dakota.

FOR SALE—Excellent quarter section farm in grain, dairy and potato district, adjacent to Red River Valley, twenty miles east of Fargo, N. D., 2 miles from town of 1,000; all under cultivation; fair buildings; half crop with farm; 32 dollars per acre. Address Box 5, Muskoda, Minnesota.

LAND OPENING—233,295 acres of ceded Chippewa Indian lands in Minnesota will be thrown open for homestead entry at 9 o'clock A. M., June 20, 1910. For lists and further information, address Minnesota State Board of Immigration, Room 223, State Capitol, St. Paul, Minnesota.

320 ACRES, unimproved, \$25; 320 acres, improved, one mile from town, \$45; 160 acres, improved, \$35; 240 acres, improved, \$40 per acre. These farms and others we have for sale are in the best farming section of southern Minnesota. C. G. Ericson Land Co., 411 Palace Bldg., Minneapolis.

390-ACRE FARM, \$6,000 cash; balance \$12,000 on any reasonable terms. Best of improvements. Located half mile from main line Great Northern, Grant County, Minnesota. Crop nearly \$5,000 last year. Sale necessary account sickness. 505 Palladio Building, Duluth, Minnesota.

FOR SALE—Several good sections of finest wheat land in Sunny Southern Alberta at \$11 to \$13 per acre; easy terms. Also improved farms. Write at once for full particulars. First class investment. Freeman, McLeod Company, Dept. 19, Box 679, Lethbridge, Alberta.

500 ACRES for sale in ranch, soon to be irrigated, project to be complete by winter; 24 miles to new town on Burlington and 8 miles to Sterling, division point of two railroads. This is good land and selling cheap. Wm. McClain, Sterling, Colo.

I WANT information immediately about a good grain or stock farm for sale. There is a good buyer waiting for it, willing to pay your price. Write me at once for full particulars. Address Arthur Capper, Dept. 43, Topeka, Kansas.

DO YOU WANT to quit drudgery of farm life? Big opportunity. Business and fine building paying about 6% on \$15,000 to \$30,000. Exchange for half this in clear farm; owners only; act now. G. H. 117, Grandview, Iowa.

NORTH DAKOTA LANDS on ten years' time, crop payments at 6 per cent interest. Stutsman Co. Rich soil. Map and particulars on request. Address Frank L. Kellogg, Cleveland, North Dakota.

BUY YOUR HOME in Williams County, North Dakota. Best soil; best climate in North Dakota; \$15 to \$25 per acre for improved farms. Call on or write P. K. Everson, Tioja, North Dakota.

ALPACA LANDS for sale in Central and Western Kansas; better than gold mine, write us. Home Land Company, Herington, Kansas.

I HAVE A FEW choice, irrigated farms for sale in famous Yellowstone Valley. Fred Gunnell, Irrigation Engineer, Big Timber, Montana.

CASH for property, any kind, anywhere. If you want to buy, sell or exchange, address Northwestern Business Agency, Minneapolis, Minnesota.

MONTANA LANDS—Live salesman wanted in every locality to sell Montana lands. Geo. Nottmiller, 216 N. Y. Life Bldg., St. Paul.

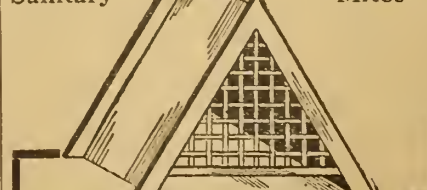
FOR INFORMATION about the best land, in best districts, on best terms, write Croft Land Company, Matador, Texas.

300 CHOICE FARMS in Northeast Kansas for sale. Write for descriptive list. Manville & Bailey, Holton, Kansas.

WE CAN TRADE your property. Book of 500 exchanges free. Graham Brothers, Eldorado, Kan.

BEAUTIFUL improved Iowa 240-acre, rental \$5 cash at \$55. Write S. Sanders, Sioux City, Iowa.

Rat Proof and Sanitary



GLUCK'S PRIDE COOP makes chicken raising profitable. Better than any wooden coop you ever saw. Made of galvanized iron, rust and vermin proof. No painting required. Never becomes damp, folds flat when not in use. Ends and bottom removable and thoroughly ventilated. Write today for full particulars and prices. Agents everywhere make \$10 a day and up. **MAURER MFG. CO.,** Box 12, Freeport, Ill.

When writing mention this paper.

REAL ESTATE.

BARGAIN—Corn and stock farm; 200 acres; 23 miles south of St. Paul and Minneapolis in Minn.; less than 1/2 mile from Dan Patch Electric Line, and close to several R. R. towns; an ideal stock farm; lies rolling; has best of soil and water. Just now 100 acres are under plow. Farm is in high state of cultivation and is finest of hay and corn land. Splendid, substantial buildings and improvements. Farm adjoins beautiful lake. Has R. F. D. and farm telephone. Whole farm will undergo the closest investigation. Offered for immediate sale at low price of \$65 per acre. Positively no trades. If one wants a real bargain and beautiful home, here it is. Write or call at once. E. M. Kierion Land Co., Endicott Building, St. Paul, Minnesota.

578 ACRE FARM—400 in cultivation; 2 sets improvements; 1/2 all crops delivered; \$5 acre for the alfalfa land for \$15 acre; \$7,000 cash, balance at 3 1/2 per cent. 560 acres; all hog tight; modern 11 room house; all fine dark valley land; 490 in cultivation; very choice alfalfa, corn and wheat farm; \$85 acre; terms on \$15,000. 160 all hog tight; good improved choice farm; \$50 acre; no zero weather here last winter; fruit is fine. Ask for list. Godby Land Company, Arkansas City, Kansas.

FIVE HOMESTEADS, compared with improved farms here, are not in it. Here is the garden spot. Good soil; no crop failures; fine groves; beautiful lakes and healthy climate. No better average of farm homes in the world. Why not spend the only life on earth in a community where you can enjoy life? A pamphlet by our Commercial Club, containing facts sworn to by farmers, sent free. Write to Lewis Johnson, Willmar, Minnesota.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

800-ACRE FARM, Osborne County, Kansas; 600 fenced; 200 cultivated; 30 alfalfa; 11 room house; barn, sheds and outbuildings; good building stone; timber for shade and fuel; 4 wells; 3 windmills; telephone and daily mail; \$30 per acre; terms. F. G. Kimball, Manhattan, Kansas.

133 ACRES—14 room house, suitable two families. Three barns; silo; good dairy farm; Bordens take milk at door; three miles to railroad town; bargain; \$7,000; 1/2 cash. Hill's Farm Agency, Owego, Tioga County, New York.

HOWARD COUNTY, Iowa, farm for sale; 95 acres well improved; good location; good buildings; all modern conveniences; must be sold. For particulars apply to Henry C. Ehrke, Line Springs, Iowa.

FOR SALE or exchange; Missouri stock farm; house, barn, buildings; value three thousand; trade for western land or stallion and jack. W. Richardson, Cuba, Missouri.

BARGAIN COUNTER—Wild and improved Red River Valley farms, any size and at your own time and price, write Emil Lindblad for information; Roseau, Minnesota.

FOR SALE—Black Hills farm of 80 acres; 25 acres cultivated; balance timbered. Seven miles from Hill City. Write L. H. Thomson, Oral, S. Dakota.

KANSAS FARMS, one fifth down, balance time Dillon & Woodward, Dill, Oklahoma.

HELP WANTED.

MEN WANTED—To try coming railway mail, internal revenue and postoffice examinations, \$50 to \$125 monthly. Annual vacations. Short hours. Steady work. Common education sufficient. Over 15,000 appointments this year. Influence unnecessary. Write immediately for dates of coming examinations in your neighborhood. Candidates prepared free. Franklin Institute, Dept. T 23, Rochester, New York.

WANTED—Motormen and conductors for street cars, firemen and brakemen for steam railways, \$80 to \$150 per month. Hundreds of vacancies. Write for particulars. American Standard Institute, Kansas City, Missouri.

WANT man and wife, without children, for farm and housework. Will pay good wages and want good help only. Must have experience. References required. Coal Harbor Stock Farm, Coal Harbor, North Dakota.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination. Write for schedule and free trial lesson. Ozment, Dept. 42 R. St. Louis, Missouri.

WANTED—POSITION as herd-man or show or sale fitter; reference if wanted, ten years experience. Jo. C. Codington, Auburn, Nebraska.

SALESMEN WANTED.

SALESMEN wanted by old established firm, one with own rig preferred. Capable men can easily make \$5 a day and expenses. First class reference required. Apply the Garland Refining Co., Cleveland, Ohio.

LIVE STOCK.

DOUBLE STANDARD Polled Durhams. Best Scotch breeding. "International" prospects; others cheaper. Herd officially tested. F. Bunker, Kilbourn, Wisconsin.

POULTRY.

ROSE COMB Rhode Island Reds; choice stock. Eggs, \$1.25 per 30; \$3.50 per 100. Address Mrs. J. Holmgren, Rolf, Iowa.

BLUE ANDALUSIAN, Columbia Wyandotte, Silver Hamburg eggs, 30, \$2; 100, \$5.75. A. Arnds, Blairburg, Iowa.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free. Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. F. E. Vrooman, 512, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

POST CARDS.

30 FINE post cards, only 10c. Mostly birthdays; no trash. German American Post Card Co., Dept. 5, Burlington, Iowa.

MISCELLANEOUS.

HOUSEWIVES—Send 10 cents for our egg separator, the most convenient utensil in the kitchen; separates an egg instantly. Household Novelty Co., Edina, Missouri.

uable R. R. chicks that were weak and droopy.

"I find the remedy most valuable for incubator chicks—it prevents bowel trouble and is a fine tonic. I never had chicks develop as rapidly.

"Ida Grove, Ia. Mrs. I. B. Geiger."

POINTERS.

—Mr. E. A. Kauffman, of Lockridge, Iowa, breeds Houdans, Anconas, Brown Leghorns and Indian Runner ducks. His advertisement of eggs for sale will be found on this page.

—Mrs. C. H. Matteson, of Decatur City, Iowa, is offering Barred Plymouth Rock, Rhode Island Red and Indian Runner duck eggs at greatly reduced prices as advertised on this page.

—A rare bargain in Plymouth Rock and Rhode Island Red hens is offered in the advertisement, on this page, of Mr. E. H. Bodley, Box 28, Newton, Iowa. They are from the best breeding pens and are sold only in order to make room for the season's crop of chicks.

—Farmers who want to get started with the very best strain of White Wyandottes should not fail to take advantage of the liberal offer Mr. S. Harr, of Riverside, Iowa, makes in his advertisement on this page. He gives free a sitting of eggs that sell for \$1.50. The offer only runs until June 15th.

—In an advertisement on this page Mr. W. I. Mouser announces that he will now sell, at attractive figures, trios or pairs from his this year's breeding pens of Single Comb Rhode Island Reds. Special prices will also be made on eggs for the remainder of the season. In a letter ordering this advertisement he writes: "I have 450 red chicks and more yet to hatch. June-hatched chicks will begin to lay in December. I have had good results from my advertisement in The Homestead." For catalog and price list address Mr. W. I. Mouser, Route 5, Red Oak, Iowa.

DOGS.

RATS! MY SCOTTISH TERRIERS

WILL kill them. Very fine pedigreed pups for sale. Do you want a great RAT exterminator, a good little watch dog and one of the very best stay-at-home dogs? If so, try a Scottish Terrier. A limited number of the pups left at \$10 each; sent on approval. Order at once if you want one of these useful little dogs. Address

S. HARR - RIVERSIDE, IOWA.

Fox Terrier Chimes

FOR SALE—For no fault of the dog but other reasons best known to ourselves we are compelled to offer for sale our Chimes. He is a very bright pup, now about six months old and very pretty and will make some one happy. Will make a great ratter and a good watch dog. First order here for \$15 gets him. Chimes will be sent on approval. Address

W. HARR - RIVERSIDE, IOWA.

SCOTCH COLLIE PUPPIES

FOR SALE—\$5 to \$10. Very best breeding, will make fine workers. Write us your wants.

T. A. Stevenson, Shannon City, Ia.

SCOTCH COLLIE PUPPIES

Several fine litters from our imported and trained stock. If you want a good driver or a handsome pet, write for our illustrated catalog. Hundreds of testimonials. Address

GEO. T. UNDERHILL, KNOXVILLE, IA.

Fox Terriers

King of the rat terriers. Puppies and grown stock for sale. Single Comb Reds, winners 5 silver cups and 34 ribbons, 1909-10. Eggs, \$2 per 15. Sabot Kennels, Pella, Iowa.

Great Collie Sire

Springdale Surprise, at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

COLLIES

—Having decided to close out my Collies I will price pups at \$6 each while they last. Breeding stock reasonable. C. H. Drake, Hazleton, Iowa.

COLLIES

—Just imported O. Sample; pups, yearling dogs, bitches. Send for list. Special—3 S. and W. bitches, 7 mos. old. P. L. Savage, St. Charles, Ill.

LEGHORNS.

ROSE COMB BROWN LEGHORNS EXCLUSIVELY

Eggs for hatching, \$1.25 for single sitting of 15 eggs; 2 or more sittings, \$1 each; 50 eggs, \$3; 100 eggs, \$5; 200 eggs for \$9. T. A. Davenport, Belmond, Ia.

High Quality Fertile Eggs for Breeders

Spring Valley Dairy and Egg Farm. Chas. G. Jackson, Prescott, Iowa, specialty breeder world's leading egg strain thoroughbred R. and S. C. White Leghorns. Satisfaction guaranteed.

S. C. B. LEGHORNS

240 Egg strain; Iowa State Show winners, 1909; scoring to 94%. Eggs balance season; 30, \$1.25; 100, \$3.50; 200, \$6.50. Orlando Jacobs, Mediapolis, Ia.

R. C. W. L.

Elephant strain; Seattle, 1st; Ia. State, 2d; 3d, 3d, state cup. Range eggs, 65c; pen 165c. Rogers' Ranch, Pleasanton, Ia.

S. C. White Leghorn Eggs

At \$1 per sitting or \$4 per 100. Address JOHN C. MILLER, HARTMAN, IA.

S. C. W. Leghorn Eggs

Now \$1.50 and \$1 for 15; \$4, 100. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

WANTED

—S. C. W. Leghorn yearling hens; also chicks from 2 to 3 mos. old; any number. State lowest price. American Poultry Plant, Collins, O.

S. C. B. Leghorn

Eggs from farm range; \$4 per 100; \$7 per 200; \$1 per 20. Address JOHN M. HALL, Williams, Iowa.

S. C. W. LEGHORNS

The bred-to-lay strain. Pen scoring 94, 15 eggs 75c. Farm flock, \$3, 100. Geo. Gaul, Tipton, Ia.

LEGHORNS.

"MONEY IN EGGS"

S. C. Brown Leghorns—My method and farm range has developed layers with vigor. My eggs produce layers. One-third fancier's price and better layers, \$1.50 per 30; \$3 per 60; \$4 per 100; \$6 per 200. Prompt shipment. J. E. McArthur, Eufield, Ill.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY, 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin, 15, \$1; 50, \$3; 100, \$5; 200, \$9. R. R. STEWART, R. 2, Charles City, Iowa.

Rose Comb Brown Leghorns

Bred 17 years exclusively for quality and eggs. None better regardless of price. 20 eggs \$1.50; \$2.50; 100, \$4; 200, \$7. Address ELLA THARP, MT. STERLING, IOWA.

Rose Comb

Brown Leghorns exclusively. Eggs for hatching, \$3.50, 100. Also Rosen duck eggs. Write F. Bowman, R. 6, Eldora, Ia.

S. C. B. Leghorn

eggs for hatching, 75c. per 15; at reduced rates on incubator lots. FRED D. FOUSER, Beaconsfield, Ia.

Single Comb White Leghorns

Eggs, \$1 per 20. M. E. Page, Madrid, Iowa.

Rose Comb Brown Leghorn

Eggs at 75c. per 15 or \$3.50 for 100. Mrs. John Roskamp, Kanawha, Iowa.

Rose Comb White Leghorn eggs

for sale; 26 for \$1.50 or \$4 per 100. Choice stock. Joseph Kappes, Jr., Box 42, Ashton, Iowa.

Eggs for Sale

From my pure-bred Rose Comb Brown Leghorns, \$3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

WYANDOTTES.

30 White Wyandotte EGGS FREE

FROM MY GREAT LAYING STRAIN—To all Homestead readers who will send me their order for two sets of eggs at the regular price, \$1.50 per set 15, will get 30 eggs free from my great laying strain. This offer is good up to June 15th, after that subject to withdrawal. Rush your orders in; the first orders here the first served. From now on I will offer for sale a fine lot of breeding White Wyandottes, hens and male birds, scoring to 96%. Now is the chance of a lifetime to get some of my great laying and high scoring breeding stock at the right price. Write me at once stating just what you want. White Wyandottes sent on approval.

S. HARR, RIVERSIDE, IA.

WHITE WYANDOTTE EGGS

FROM stay-white kind. Our birds are absolutely free from brass; good eyes and comb; very large, good shape; best of laying strain; eggs, \$1.50 per 15; \$2.25 per 30; \$6 per 100. Guarantee 75% to hatch or will replace at 1/2 price. A. J. Pedendorf, Logan, Ia.

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We pay express. Circular free. CEDAR LAWN POULTRY AND STOCK FARM, Fairfield, Neb.

WHITE WYANDOTTE EGGS

FROM best matings we ever owned, at \$1.50 per 15 and \$2.75 per 30. Satisfaction guaranteed. W. S. Gregory, Keota, Ia. "Roselaw Farm," Route 2.

WHITE Wyandottes of quality.

Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank. J. M. Erickson, Slater, Ia.

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Eggs, 15 for \$1; 40 for \$2; 100 for \$4. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

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Extra good birds, true to type farm range, bred from birds scoring 92 to 95%; satisfaction guaranteed. Eggs, \$1 per 15; \$2.50 for 50. Carl J. Hedberg, Boxholm, Ia.

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exclusively, \$1 per 15; \$4 per 100. Blocky stay, white kind. Address, Mrs. F. O. Elliot, Kent, Iowa.

For Sale

S. L. Wyandotte eggs for hatching, \$4 per 100, or 65 cents per 15. Write to CHAS. W. FARIS, IOWA FALLS, IOWA.

Silver Laced

Wyandotte eggs for sale, from good birds. Prices reasonable. Write for circulars. S. R. Young, Greenville, Iowa.

BUFF WYANDOTTE CATALOG

FREE. Illinois state winners; eggs, \$1.50 and \$3 per 15. J. S. WATSON, VAIL, IOWA.

Buff Wyandottes Eggs

\$1 per sitting; \$2.50 for 40; \$5, 100. Address MRS. GRANT DAVIDSON, Corwith, Iowa.

Silver Laced

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Exclusively. Farm range. Eggs, 20 for \$1; \$4 per 100. A. L. Surtus, Bristow, Iowa.

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S. C. BLACK MINORCAS

EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

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BABY CHICKS of 10 varieties; all pure-bred; safe arrival guaranteed; price 7c and up. Catalog free. J. A. Blum & Company, Chatfield, Ohio.

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\$12.50 per 100; \$7 per 50. Guaranteed good, live, strong chicks at express office. Highland Poultry Farm, Hazleton, Ia.

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Pekin duck eggs from good, large-sized ducks; drakes 10 lbs.; \$1 per 13; \$6 per 100. John M. Hall, Williams, Iowa.

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THE extra eggs we send with each order may mean 500% profit on your investment and pay for your order many times over. Our yards represent all leading strains and direct descendants of leading prize winners. 18 eggs, \$1; 40, \$2; 100, \$4.50. A fair hatch and safe delivery guaranteed. Address H. C. Sanders & Son, Montezuma, Iowa. Route 1, Box 6. Interior and long distance 'phones.



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EGGS for hatching balance of season. Where taken from all pens, 15 for \$1.25; 30 for \$2.50 for \$2.75 and \$4 per 100. Special matings, 15 for \$2; 30 for \$3; 50 for \$5; \$8 per 100. Don't make a mistake, but send to W. A. Hartman, Box 242, Winterset, Ia.

B. P. ROCK Eggs for sale from extra large-boned, nicely-marked stock; yards headed by cocks and cockerels scoring 90 to 92 1/4; weighing 11 to 13 lbs. In five showings, including Central Iowa Show, 1909, Russell, judge, we won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths. 15 eggs, \$1.50; 30, \$2.50; guaranteed fertile. J. W. Wagner, Monroe, Ia.

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THREE pens, all strongly Bradley bred; one pure-bred Bradley pen; two pens cockerel mating; one pullet mating. Special prices next thirty days. Best of stock. Mrs. L. C. Reese, Prescott, Ia.

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from Blake's improved egg-laying strain. Write for prices and my secret for raising better layers. GEO. F. BLAKE, MAQUOKETA, IOWA.

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Eggs B. Rock, \$1 per 15; \$5 per 100. Geese eggs 25c., etc. Also some geese yet for sale, both sexes. Letters from satisfied customers, not one complaint. MRS. J. COCKERTON, Whiting, Iowa.

BUFF ROCK EGGS

Half price after June 1st; 75c. for 15; \$2.50 for 50; \$5 for 100. L. L. WOODS, GRINNELL, IOWA.

BARRED ROCK EGGS

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Eggs from pens \$1.50 per 15; from flock \$1. Mrs. Geo. Dawdy, Abingdon, Ill.

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EGGS

From White P. Rocks, Fishel strain; \$1 per 15; \$1.50 per 30; \$4 per 100. Hens, \$1 each. Mrs. E. C. Turner, Route 1, Griswold, Ia.

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\$1 per 15; \$2.50 per 50; \$4 per 100. Will sell a few hens at \$1 each. Address Mrs. A. F. Peterson, R. 6, Red Oak, Iowa.

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Large, heavy-boned cks. Eggs in season from prize-winning strain. Frank Santee, What Cheer, Ia.

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26, \$1; 100, \$3. A few good cockerels for sale. Address ROBERT HUNT, EARLVILLE, IOWA.

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Cherry Red strain. Eggs from 5 pens; also utility yard. Scored cockerels for sale. Harry C. Blake, Maquoketa, Ia.

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\$1 for 15; \$5 for 100; fine bred; good laying strain. Address Mrs. Sophia Rader, Laurel, Iowa.

S. C. R. I. RED EGGS

75c per 15; \$4 per 100. I. C. Welch, Bedford, Iowa.

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Eggs at half price after June 11th. Address A. A. Worthington, Media, Illinois.

LANGSHANS.

BLACK Langshan cockerels—A few more to sell at \$1 each from high-scoring stock. Eggs in season. Address Mrs. Sarah F. McKen, Sac City, Ia.

BLACK LANGSHAN

Eggs for sale from large thrifty birds, farm range. \$1.00 per 15; \$4.00 per 100. Address, J. H. Rayl, Afton, Iowa.

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B. Langshans exclusively, scoring to 94% at Danbury by Lambert. Eggs, 13, 85c.; 26, \$1.50; 100, \$4.50. W. Baskerville, Earlville, Ia.

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For sale; 26 for \$1.50 or \$4 per 100. Choice stock. Joseph Kappes, Jr., Box 42, Ashton, Iowa.

Black Langshan

Eggs from good, thrifty stock; many will score 95; 20 for \$1; 100 for \$4.50. Mrs. Geo. Tutt, Marathon, Ia.

ORPINGTONS.

Buff Orpington Eggs from scored pens. Eggs from a fine pen of Hondans. Write me. Mrs. Chas. Gatches, Floyd, Iowa.

S. C. Buff Orpingtons

Eggs for hatching; \$1.50, 15; \$7, 100. Fertile eggs guaranteed. Frank Rafter, Earlville, Iowa.

Buff Orpington

Eggs from prize-winning birds, \$1.50 to \$3 per 15; also orders booked for baby chicks. Mrs. O. A. Mace, Bedford, Ia.

ORPINGTONS (Buff).

Greatest winter-laying hens in the world. Eggs for sale. Free catalog. Prewitt, R. 5, Onawa, Iowa.

S. C. Buff, Black, White and R. C. White scored cks.

S. Won hundreds of prizes. Eggs, \$1.50 up. Hens with baby chicks. Mating list. Dr. Evans, LeGrand, Ia.

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Ottumwa POULTRY YARDS

Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

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IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending May 29, 1910:

The past week was unseasonably cold with little or no rain until Saturday when light to moderate showers occurred over the larger part of the state. The daily mean temperature was about 7 degrees below the normal, and light frost occurred in many localities on two or three mornings, but the damage was inconsiderable except that the low temperature prevents the germination and growth of corn. Replanting is general and some fields have been planted three times. Good seed corn is exhausted and the prospects for an average stand are very unfavorable. In addition to the damaging effects of the low temperature, cut and wire worms are becoming very active, especially on sod ground. All small grain, grass and potatoes have made considerable improvement during the last seven days, due to the copious rains of the previous week and those crops are generally in good condition except that grass in meadows and pastures is short for the season of the year and the hay crop will be much lighter than for the past two or three years. All fruit crops will be light.

GEO. M. CHAPPEL,
Station Director.

Mr. C. Codington, of Auburn, Neb., wants a position as herdsman, with sheep, cattle preferred, or will fit cattle. He is an experienced man. Advertisement on page 14.

LANDS AND HOMES FOR SALE

Buy Canada Land on the Crop Payment System

To show the confidence we have in our fertile district and the confidence we have that the farmers and renters of this and the adjoining states can make good in our district, we will sell 35 of our splendid improved farms upon receiving a small cash payment down and one-half the crop grown each year afterwards until paid for.

YOU WILL NEVER GET A BETTER CHANCE

to buy land at honest, face-value prices. These farms must all be sold by July 1st. Come with us at once. Don't let your corn or your neighbors keep you back. **YOU CAN BE INDEPENDENT IN 5 YEARS.** Five years ago the American people were exporting millions of bushels of wheat. Today they are eating every bushel, and the millers are demanding Canada wheat free of duty. The day of less than \$1 wheat is passing away. There is no investment in the world today as good as **WHEAT LAND.** It is going up \$5 per acre every year, and the demand will force it up to Iowa prices within a short time. When we tell you that C. Bennett one year averaged 43 bushels of wheat and 90 bushels of oats to the acre, and that H. Cadwell and W. Dormer and many others of our farmers cleared from \$4,000 to \$6,000 over all expenses last year, and that Reeder Bros., tenants on A. Benjamin's land, cleared \$3,000 from their 1/2 share last year, would you believe it? These are positive cases, and there are many more that go to prove that farming is paying handsomely in our district. We have lived in Western Canada for 21 years, and in Arcola district this past 9 years, and **HAVE SOLD OVER FORTY PIECES OF LAND** there on the half-crop payment system, and every man got his deed in from three to five years.

SOME ADVANTAGES OF OUR DISTRICT

We are in Southeastern Saskatchewan, in the Moose Mt. Valley, only 40 miles north of the international boundary. Our land is fertile black clay loam on clay subsoil, free from stones, scrub and gumbo; has two competing lines of railway; good markets within 2 to 6 miles from all this land; abundance of good water; schools everywhere; high school in Arcola; 95% of the settlers are English speaking. The district is prosperous. Coal at \$2.25 per ton; wood in timber reserve free. Cattle, horse and hog shipments amount to about \$100,000 yearly and rapidly increasing. Grain shipments exceed \$2,500,000 yearly. Good elevators, flour mill; unlimited car supply. 65,000 bushels loaded and shipped from Arcola in one day.

YOU CAN'T LOSE THE LAND

Just turn in half your grain tickets each year and we will apply the proceeds first in payment of interest and the balance will be applied in reducing principal. Do this until you clear your title. We have government titles to everything. Remember, there are comfortable buildings on every parcel. The land is all cultivated and is not old and worn out. The fences are there; the markets are there; the good neighbors are there. You can get possession this fall if you want it, and you just take the reins and go ahead. Come yourself, or send your boys into the finest district in the greatest land of opportunity in the world. **WE LEAVE EVERY DAY** except Sunday. We don't wait for excursions. \$25 round trip. Only takes 5 days. All expenses refunded to purchasers. No land shown Sunday.

COOK BROS., ARCOLA, SASKATCHEWAN, CANADA

R. H. COOK, 533 UTICA BUILDING, DES MOINES, IOWA.

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We have choice bargains in farms and ranches. Write us for further information.

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BUY LANDS IN EASTERN LYMAN COUNTY

WHERE corn, alfalfa, cattle and hogs are the money makers and small grains cannot be beaten. Price, \$15 to \$35 per acre. Large list of improved and unimproved lands for sale on liberal terms. For price list or information, address THOS. F. McGUIGAN, KENNEBEC, SOUTH DAKOTA.

Wheat and Flax Land in Montana

IN Dawson County; near railroads; plenty of rainfall; good water 12 to 30 feet; wheat yields 30 to 40 bu.; flax 20 bu. Every man who bought Dawson County land last year made money; sure to advance more. Send for our list now; \$15 to \$25 per acre. MILLER & JORDEN, GLENDIVE, MONTANA.

GALLATIN VALLEY MONTANA LANDS

WE have for sale a large list of splendid farms, improved and unimproved, irrigated and dry; close to church, school, town and railroad, in the oldest, most successful farm district in the Northwest. Climate good; no blizzards or cyclones. Ideal for small grains, sugar beets, potatoes, alfalfa, clover and timothy, apples and strawberries. Prices and terms reasonable. Literature sent on inquiry. H. S. Buhl Land Co., Bozeman, Montana.

MUSSELSHELL VALLEY MONTANA

GOOD farming land in the Musselshell Valley that will yield 35 to 40 bu. of wheat, 50 to 75 bu. of oats per acre, without irrigation. Several tracts to select from; \$7.50 to \$25 per acre. 1/4 cash, balance easy terms at 6%. Ample rainfall for past 10 years to produce big crops. Write for list and full particulars. Irrigated land if desired. Address Friday & Jenzen, Bankers, Harlowton, Montana.

Iowa Farm For Sale

270 ACRES bordering on Silver Lake, a beautiful body of water well stocked with fish. The land lies gently rolling; about one hundred and twenty acres are under the plow; balance is fine pasture and 80 acres more can be broken out. Price, \$72.50 per acre; \$1,000 cash; \$4,000 March 1, 1911; balance can run nine years at 5%.

J. G. Chrysler & Son, Lake Park, Iowa.

OKZARK FARMS

Industrial young farmers of good character, willing to work hard for a few years to get ahead, can get good farms in the Missouri Ozarks on a cash payment of \$1 per acre—balance running over a term of years. Must have references, a team and a few dollars to insure a fair start. Apply today and we will tell you all about Gov. Hadley's project to induce homeseekers to come to Mo. FEW ACRES CO., 309 Reliance Building, Kansas City, Mo.

Improved Farm

FOR SALE RIGHT. 320 acres fenced; 240 under cultivation and in crops; clay soil; orchard; wooded pasture; large new barn; good house; other buildings. Will sell with crops if taken now; \$12,000, half cash. Also stock and machinery if wanted. W. C. WEBER, Little Falls, Minnesota.

307.86 ACRES Two miles Curlew, Palo Alto County, Iowa; good land; good improvements. Will take in part payment one or two good draft stallions same as money. Good terms. Give full particulars first letter and I'll do the same. Health compels move. Can take horses; not land. Burrett S. Allen, owner, Laurens, Ia.

Lyman Co. Lands

ASAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. HAGLER LAND CO., PRESHO, S. DAK.

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THE FAMOUS ARKANSAS VALLEY OF COLORADO 40,000 acres of the finest land in America. Grows all kinds of crops. Good Railroads. Up-to-date towns. Sugar factory and alfalfa meal mills. Good Markets. Climate best in the world. Irrigation system ranks with the best. Our price \$30 to \$35 per acre, with perpetual water right. Easy terms, no interest. Your fare paid if you buy 80 acres or up. Write for illustrated booklet, map. MONSON & MALCOM REALTY CO. 300 Kittredge Bldg., Denver, Colo.

LET ME TELL YOU

ABOUT a 320-acre farm lying 12 miles north-east of Carthage, on turnpike road; well improved; all in cultivation except 20 acres of pasture, with running water through same. This can be bought for \$75 per acre; worth \$125 if taken soon. For detailed description, address

J. E. HALL, Carthage, Missouri.

We Mean It!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

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I HAVE for sale at owners' prices over 300 choice improved farms in Lyon and Coffey counties, in the beautiful and fertile

NEOSHO RIVER VALLEY

Write for new illustrated descriptive circular. Mention The Homestead when writing. Address ED. F. MILNER, HARTFORD, KANSAS.

NORTHERN IOWA

1,200 ACRES Mitchell County, Iowa; 5 miles from town; all lies in a body and is in a high state of cultivation; has four sets of buildings; and there is no better lying land in Iowa; all can be cultivated. Offered for a short time at \$70 per acre; terms, \$20,000 down, bal. at 5 per cent from 5 to 20 years. John Burke & Son, Riceville, Ia.

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SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address

The Allen Co. Investment Co., Longton, Kan.

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I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address BERT L. WELD, SLAYTON, MINNESOTA.

A Section of Land In richest farming country of Wisconsin. Level, clay loam soil; on railroad. Will sell in any sized piece at \$16 an acre. Easy terms. Address owner, G. A. McDermid, Eau Claire, Wisconsin.

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We OWN and offer for sale the following lands in North Dakota:—

Improved Lands 25,000 acres in Cass, Stutsman and other counties. Prices \$35 to \$75 per acre.

Raw Lands 7,000 acres in Bowman county along the Milwaukee Road's new line; 3,000 acres in other counties. Prices from \$12.50 to \$35 per acre.

TERMS—One-third cash; balance in five equal annual instalments with interest at 6 per cent.

Descriptive literature free. Tell us what you want and how much cash you have to invest and we will make you an attractive offer.

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FREE LAND

AND FREE WATER RIGHTS IN NORTHWESTERN COLORADO

Write to-day for map and booklet telling how to get 160 or 320 acres of government land. Deep, Rich Soil in River Valley. Land and irrigation water absolutely free. Railroad now being built through a million acres of free land. Fine crops of grain and vegetables; good local market. Best grass country in the west. We have no land and no water rights to sell. They are free. W. F. JONES, Gen. Traf. Mgr., D. N. W. & P. Ry. Room 704 Majestic Bldg. Denver, Colo.

Back to the Soil 50,000 ACRES

In St. Louis and Carlton Counties MINNESOTA

NEAR fast growing cities of DULUTH and SUPERIOR. Splendid markets. Eighteen railroads. Soil fertile and well adapted to general farming, dairying and raising of garden truck. Price, \$8 to \$10 an acre. Easy terms. Lands are owned by this company, free of all incumbrances, and no reservations. Write for full particulars and information.

Boston & Duluth Farm Land Co. No. 18 5th Ave. West, Duluth, Minn.

JUDITH BASIN

Montana Farms

In this rich valley produce more grain per acre than any other section of the West.

Write today for our list, prices and full information.



F. J. ROBINSON, Manager.

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A Force Put By Owner

A HIGHLY improved farm of 363 acres in Thayer County, Nebraska, for \$65 per acre. Another of 240 acres in Nuckolls County, Nebraska; \$5 an acre; alfalfa; \$85 per acre. Rauch of 1,200 acres in Hayes County, Nebraska; fenced and fine grass land, with plenty of water; clay soil; at \$15. 325 acres in Dawson County, Nebraska; improved; 100 acres cultivated; \$55. All money makers.

G. A. Dennis, Box 622, Lincoln, Nebraska.

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South Dakota Land

KADOKA, STANLEY COUNTY.

RICH soil, grows alfalfa, corn and small grain; plenty water; prices from \$10 to \$20 per acre. Gilt-edge farm mortgages for sale. For description, write

F. E. Reidinger Land Agency, Kadoka, S. D.

Improved Kansas Farms

I OWN the following improved farms, all near Severy, Kan., that I will sell on a payment down and the balance on long time at low rate of interest: 80 acres at \$45 per acre, 160 acres at \$35 per acre and 320 acres at \$30 per acre. I am not a real estate dealer; simply own the land and want to sell it. If you are interested write or call and see the land. M. J. BIDWELL, Severy, Kansas.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Iowa Lands For Sale in Howard county, \$50 to \$80 per acre. Large list on request. Address, SPAULDING & O'DONNELL, Elma, Iowa.

VEGETABLE SCOOP FORKS

THE True Temper Vegetable Scoop Fork is not only invaluable for handling corn from field to wagon, bin or cars; but also for rapid and easy handling of almost all fruits and vegetables in bulk. It is the most useful fork that the farmer can own.



Handles Without Injury

The blunt, flattened ends of the tines prevent bruising. Perfect shape and hang enable you to carry a large load with easy swing, screening out dirt or snow in the process.

Sold by hardware dealers everywhere. If your dealer doesn't handle, write us and we'll see that you are supplied.

The American Fork & Hoe Co.
CLEVELAND, OHIO



A Philadelphia man makes the assertion that a hog is worth more than an alderman. Good question for debate: "Resolved, That any hog is worth more than any alderman, all hogs worth more than all aldermen, and if not, why not?"

The sere and yellow leaf got here in May this time.

Don't feed corn in the ear. Put it in the mouth. It digests much quicker.

Warts grow just as profusely on a clodhopper as they do on a millionaire. They are strictly cosmopolitan, but when they come on a millionaire they are called glandular excrescences or enlargement of the vascular papillae of the cutis vera. An extinct volcano is a wart on the face of nature. A played-out, nine-spot politician is a wart on his party. The bootlegger is a wart on humanity, and the demagogue is a wart on society.

Juliette's Sad Case.

Juliette asks: "I love a young man, oh, so well! His mother has promised him a new automobile if he does not get married in five years. I am twenty-eight years old. What can I do to win him?"

This is a very sad case. Couldn't you imitate an automobile to some extent? When he puts his arm around you, start up and then suddenly pull back and wheeze? Or when you are going along stop all at once and purr as though you were running down or unraveling? Or when you are walking along with him, all at once turn off short, whistle and pitch him into a ditch, and walk on him some? Say choo, choo, choo; each choo a little fainter than its predecessor? Where the ground is a little rough you might steer him into a rut and surge against him hard enough to knock him off his balance and then murmur something about not seeing it in time to put on the slow speed. All these things count and will tend to keep his mind on you, as well as the auto. Tell him you are exhausting, and that your sparkler is crossed on your carburetter; that you think your speedometer is bent and that your backing gear seems to be displaced. A young man wants someone to talk to him learnedly about an auto and it may be you can divert his thoughts from the old lady, temporarily at least.

Tell him an auto is built for two or more, any how, and that he will need your advice in running it if he gets one, and try and get him secured before the old lady comes down with the cash. If she thinks enough of him to get him an auto now she will get it anyway. If you can get the marriage certificate before his mother signs the mortgage on her home to pay for the auto perhaps you can save the home and then you can buy a perambulator next year.

You were born at least ten years too soon to get a cinch in a handicap novelty race with an auto now, Juliette. Any how, you must take some desperate chances. If he should become coy you might learn to throw a lasso and rope him on the run. It is said to be great sport and you might enchant him with your dexterity. If you ever get hold of him, hang on. At your age this is the safest plan, for failure means misery. Your prospective mother-in-law has taken a very unfair advantage of you to begin with. When an old maid is thrown into the balance with an automobile the chances are all with the auto unless a lot of finesse is practiced.

The Candidate.

How we eulogize the candidate! If we could only define our eulogies, how differently they would read.

"He is a high-minded gentleman." Of course, he is. Why, his mind is so high that it takes an extension ladder to reach it. Sometimes when he wants to change his mind as to a certain thing he has to go up in a balloon to get where it is, clear up in the air, and

when it comes to \$\$\$ guess you will find him high-minded—nothing less than four figures will touch him.

"He is well-balanced." Of course, he is. He has been teetering first on one foot then the other for forty years. Balanced? Well, yes. A dollar will turn him either way, and on which ever side the most dollars come, you'll find him there every time, right with the down weight.

"He always weighs his words." To be sure and sizes them, too. Some of them will weigh a pound, but he can't spell them. That is why he is so well-balanced, to weigh his words.

"He is a very unassuming man." Right again. He never assumes anything, not even responsibility, if there is any show to shove it off on someone else.

"He is loyal to the core." Right again. He takes peelings, skin, fruit and all. Ask him for the core and he'll tell you "there ain't any core." He is out for the whole thing. Yes, he is "loyal to the core."

"He is a man of sterling worth." Just so. Ten dollars will buy him at any time, and two pounds sterling answers the same purpose.

"He is generous to a fault." Exactly. If you have a fault of any kind let him get at it. He will spend a week's time expatiating on it and will spend \$50 worth of time in giving your fault air. Generous to it? We should say so.

"He stands on a high plane." To be sure, and he'll stand on a hand saw, or a draw shave, or a box of augers, or the whole tool chest or even climb a tree if you will but promise to vote for him; yes, he'll stand on his hands or his head for votes. His plane is high enough, if that is all you want.

"He is well connected." So he is. His feet are connected with his legs, his legs with his body, his body with his neck, and his neck with his chin. Here the connection ceases except that his chin is connected with his mouth and the two vibrating in unison form a chain with perpetual motion and the bright eternity that will shake modesty off her pedestal, and pale the scintillations of the aurora borealis to the tint of a roan calf.

"A man of excellent parts." Remarkably so. He parts his hair in the middle, parts with his money with regret, parts with his church donations down pretty fine, and parts his admiration between himself and his wife's husband. He has a fine voice and always listens to it with marked attention. He is a fine listener to the sound of his own voice.

"He is a reformer." Good. He should begin by changing his linen and getting his wife a new set of teeth. He could reform some by using his neighbors decently and paying his debts. If he ever gets so he can keep his nose out of that which is none of his business, and tell the truth once a week it will be reformation. No trouble for him to reform some. He can't mix with decent people without reforming.

"He has an honesty of purpose." Ah, there! Right again. He purposes to get all he can and keep all he gets. He talks of honesty, but that means only unchanged determination with him. Honesty is to stick to anything right or wrong, claim everything admit nothing, shut his eyes and hang on; too "honest" to give up when he is proven to be wrong, or to be guided by anything but his own prejudice.

"His sincerity has never been questioned." Still right. Nobody ever bothered to question it. He knew nothing to begin with and has "held his own" nobly. Perfectly sincere. He don't know enough to reason or think; just thinks that he thinks, and sincerely believing that thought is composed of silence and meditative air, and to shut one eye, and gaze at a knot-hole is a sign of wisdom.

To eulogize is the art of saying considerable, but leaving out the most of it. An obituary is an eulogy where you leave out the most of the rest of it.

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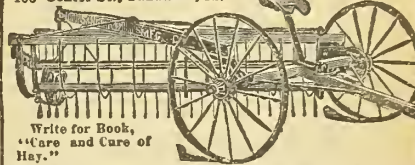
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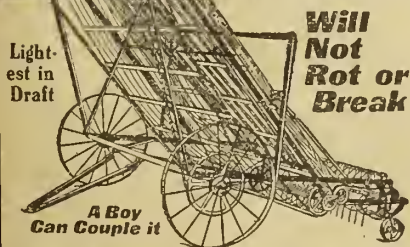
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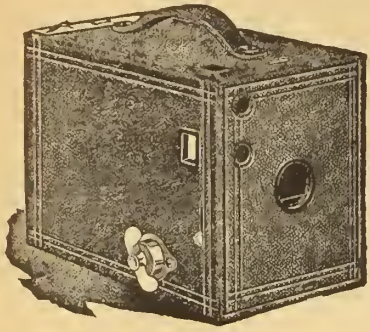
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WITH THE EDITOR.

The automobile and phonograph are prominent factors in making more pleasant and profitable the life of the farm woman. Probably no other innovation, unless it be the telephone, has so relieved the monotony of home life. In a recent newspaper article Mr. C. M. Harger tells of how these three (the automobile, the phonograph and the telephone) have combined to add to the social enjoyment of farm life.

For years the people in a certain Kansas neighborhood existed in the usual haphazard style, with but few pleasures and much hard work. They had no community life and their gatherings for social enjoyment were rare. Gradually, however, the various individuals began to add phonographs to their homes and to find it possible to make visits back and forth by means of the motor car, the visits being arranged over the telephone.

Mr. Harger narrates that one day a few of the neighborhood women met and discussed the situation.

"Why should we be any more lonesome than the folks in town?" they asked. "We have as much education—several college diplomas are framed in parlors in this neighborhood—and we ought to have some social life."

This is how they worked it out: A series of parties was inaugurated—not card parties, for some of the residents are church members who do not approve—nor merely "talk parties," but gatherings with some purpose. Usually a birthday or a wedding anniversary is chosen and the program occasionally fits into a national holiday. Halloween last year was the occasion of a ghost party in which the farmers who had spent the day hauling wheat donned sheets and masks and became romping boys again. Their wives forgot the cares of the kitchen and were once more school girls. They told fortunes and bobbed for apples and made the farm house ring with laughter until after midnight.

Again, it is a more serious affair, with charades and "pieces" by the children, while an annual picnic in summer means a day off for everybody. To all these gatherings go not only the parents, but the whole family, and in these days of commodious houses there is no difficulty in caring for 100 or so comfortably. For two years this neighborhood has been enjoying its individual social life and so well known is its success that the town folks, who are sometimes invited, consider it an honor to go out in their motor cars and enjoy the fun.

Another thing the neighborhood did: When the town folks organized a lecture course every family bought tickets and the advantage of a touch with a broader life and subjects of interest removed from everyday affairs were added to their sources of pleasure. On lecture course nights twenty-four teams or motor cars lined up in front of the town opera house. All this may not seem much to the dweller in a city, near to theater and church and social center, but, compared with the country community where each family lives its own life and where acquaintance with the neighbors consists in arguments over the probable yield of next fall's wheat crop, it means a great deal. It is for the wife and daughter the difference between existing and living and it softens many of the hard lines that come into the day's work.

Another prairie neighborhood worked out its social pleasures in a different way. Here the women formed a club, not for literary discussion or for heavy reading, but for something in which each was interested: fancy needlework. They met each fortnight, spending three hours with patterns, designs and colored floss until they had formed a coterie on a common basis that looked forward to the gatherings with great anticipations.

Some went ten miles to attend, and when the county fair offered prizes they occupied one whole section of the fine arts department with their handiwork, taking home an enviable collection of blue ribbons. Not much was this in itself, perhaps, but it meant a great deal in companionship and in relegating thoughts of drudgery to temporary oblivion.

In both these instances, and each shows what any country community can do with the right spirit awakened, there has been evidence of greater personal pride on the part of the farmers' wives, greater care in dress and a wider knowledge of what constitute the little niceties of society. To these the farmer's wife is as much entitled as is her sister in town, but no one can give it to her—she must work it out for herself. The development of the West has brought homes closer together, and has also brought the prosperity which enables her and her husband to take relaxation from toil, if they will but persuade themselves to do it. There is no excuse for mourning over neglected opportunity or over fancied enforced seclusion.

What is being accomplished in this Kansas community is being duplicated in every section of the grain belt, with the result that the farmer's wife is finding the horizon of her existence materially widened. The phonograph makes possible little home entertainments in which the entire circle may join, while telephonic communication with neighbors and motor car visits relieve the farm of the stigma of loneliness which it has borne in reputation, if not in actual fact, far too long.

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY.

Let me but do my work from day to day.—Grace R. Hogevoil.

You must see life by the light of your own lamp.
Nobody can help you much.
—Mrs. Craigie.

BODILY POISE.

Few of us stand well. We hitch one shoulder up higher than the other or hold one foot lower than the other. And when we are seated, we drop on the edge of a chair, hump or back up like a trick camel in the circus until our spine is a long curve. And if we have no poise of body in standing or sitting, what a figure we cut, when walking. We swing our arms and the hips joggle as if on unsound hinges. Train the muscles until you stand well, sit properly and walk with poise.

THE WAY.

I said, "I will walk in the sun,
That grief may find me not."
But long ere the day was done
My feet were tired and hot.
And the sun went on and on,
Past sails and the sea's low bar,
And lonely I looked where its light had shone,
And found in my face a star.

I said, "I will walk in the rain,
And welcome the gust of tears;"
A comrade I made of pain,
And traveled with him for years.
But sudden he turned about—
"Your way lies there," he said,
And a high, smooth path he pointed out.

And I saw the sun ahead.
And lo! on that path serene
One measured her steps with mine;
Quiet and kind was her mien,
Her eyes were frank and fine;
And behind, Pain clapped his hands,
And the warm sun beamed above,
And I knew I had journeyed through weary lands
To walk at last with Love.

TEN DON'TS FOR PATRONS OF RURAL ROUTES.

1. Don't put "pennies" in the box.
2. Don't ask the carrier to "wait a minute."
3. Don't ask the carrier to bring out your groceries from town.
4. Don't expect the carrier to travel over roads that you would not travel yourself.
5. Don't leave your farm machinery standing in front of the mail box.
6. Don't fail to give the carrier the names of any friends who are visiting you who are expecting mail.
7. Don't drive ten miles to pay a



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8. Don't put mail in the box without the proper amount of stamps on it.

9. Don't forget that each carrier that has a route of 125 boxes is expected to deliver 5,000 pieces of mail each month.

10. Don't fail to boost for your route first, last and all the time.

FOR THE COOK.

Pork Chops with Lemons.—Grate a small quantity of lemon rind, enough to cover one side lightly, on each chop. Stack them on a plate and let set an hour before cooking. Cook with the lemon still on and you will find them delicious.

Potato and Meat Pie.—This is a novel meat and potato pie: Chop the cold meat, remove the fat and gristle, put into a casserole or earthenware baking dish, and to each cup of meat add one-third cup of gravy or one-fourth cup of water, pepper, salt, a slice or two of onion, spread mashed potato over it for a crust, and bake until the potato crust is a golden brown. If water is used instead of gravy, add a small piece of butter.

Strawberry Fritters.—Take one pound of large, but not overripe, strawberries with the stems on, put them in a basin and sprinkle a little ground cinnamon over them. Dissolve some peach or apricot marmalade or jam, using either grape or other fruit juice. Strain it and keep it warm. Have ready a small quantity of batter, such as you usually use for fritters, dip the strawberries into the marmalade, roll them in powdered sponge cake, then dip each one in the batter and drop them gently into boiling clarified butter and fry them until crisp and of a nice, light brown color.

Chocolate Cornstarch.—For chocolate cornstarch use one ounce unsweetened chocolate, one-half cup sugar, two cups milk, one-fourth cup cornstarch. Melt the chocolate in a double boiler, and add the sugar and milk gradually. Heat to a boiling point, moisten the cornstarch with enough cold water to make a smooth paste, and stir it into the contents of the double boiler. Cook over hot water for twenty minutes, and put into molds. When cold, serve with sugar and cream.

AMONG OURSELVES.

Judging by the amount of mail bearing upon the subject many hearts have been stirred by the story of "Nameless." Not in a long time have I had such heavy Home Department mail as her cry for help has brought. It is impossible to use all the letters, but I hereby thank everyone who has written, and because marital unhappiness is one of the crying troubles of the age we shall devote attention to this matter for a few weeks or until we have treated its various phases. Mrs. C. A. H.'s letter comes first:

I shall be pleased to give the little girl of twenty years who lives on the ranch some advice, since she has requested it. Now, first, my dear girl, by all means reject any and all advances made by the man to whom you were once engaged who has now a wife. His affection and his attention now belong to the woman to whom he gave his hand and vowed to leave all others and cling to her. It is not necessary for you to move away from your present location on his account. Give him to understand that you have too much dignity to allow him, the husband of another, to tell you that he thinks as much of you as he ever did. In my judgment that is a sly way he has of beginning a new flirtation with you, one which, if continued, would in all probability cause you and your parents, in fact all connected, lots of trouble. And, dear girl, you are young yet and, as you say there are no young people in your neighborhood, just be patient and wait; you will see more of this world and different men and possibly make a better choice than had you married the man so much your senior. Of course I know there is a first love that is all truth and sincerity, but there is a second love that is no less sincere and yes, even a third love that is devotion itself.

And now Mrs. Belle:

I enjoy reading Among Ourselves; and when I saw the appeal of "Nameless" I felt as though I must say something. Dear girl, in this, which I believe to be the crisis of your life, I wish I might say something to help you. You are so young and have most of your life before you. Do not make a wreck of it. I cannot believe this man to be worthy the love of a good girl or he would not have been so dishonorable as to speak to you on the subject after he had forfeited all right to do so. He belongs to another, and if he is untrue to her, he probably would be to you. I think it would be much better if you could go away where you would not see him. But if this is impossible, call your pride to your rescue. Let him see that he is nothing to you. Do not be in a hurry and miss your life's happiness. Even a life of single blessedness and a clear conscience is preferable to an unhappy marriage. It is too bad you cannot have young people to associate with. If you had you would probably soon come to look upon this affair as a mistake. Make the best of your life, strive to do right and remember "God will

help in all that comes, be it joy or sorrow."

"Make the best of your life" is fine advice for us all. One thing I like about the letters for "Nameless" is that incidentally they touch other problems than hers and offer advice which is likely to prove generally helpful.

Personally I incline to give the same advice as "Mayetta" who waits for the floor:

My advice to "Nameless" would be, shun that old lover of yours as you would the plague. He is not a good man or he would not be trying to win your sympathies when he has a wife. Perhaps you are younger or better looking than his wife is, and would answer his selfish desires better. Rest assured it is not because he loves you. It is himself he is in love with. Your parents were right—he is not worthy of your love and respect. Never marry a man you cannot respect. And you surely do not respect him. If your brother goes to college, why can't you go, too, where you will get acquainted with young people of your own age, or if you do not care to go to college and have to stay at home with your parents, begin studying and subscribe for some good papers. If you live where you can't have many associates, read good papers and books. They will be better companions than selfish married men.

It should help "Nameless" to conquer her feeling for her old lover, to realize that if he were what he should be he would not try to keep his old place when he no longer has a right to it. One of the portentous things in our day is this very neglect of the rights of others. The man and the woman who have married have assumed solemn obligations to the other party in the contract, obligations which should be met, even at great personal loss.

But we must go to other matters for awhile. Let us hear a word from "Truth Seeker:"

"Pedagogue" says woman cannot love a man younger than she is, and the editor asks her readers to speak up. As I have been wanting to propound this very question I take this opportunity. A man of twenty and a widow of forty are passionately in love with each other, or imagine they are, which amounts to the same thing. Now I can see how a woman can love a young man, but I cannot see how a young man can love a gray-haired woman of twice his own age. It seems to me she ought to adopt the boy. He swears he will never love another woman, but as this is his first bad case he might be mistaken, or he might be making love to her property. We men are gay deceivers sometimes, and he is poor and obscure. Now, what is the opinion of the circle? Do you not think he would tire of her after the novelty wore off and do like "Ranchman" says, "Cast longing eyes after some younger women," and wish he had not been such a fool, or would he prove true to her? I suppose you will say it is owing to how the fellow is constituted.

Well, what do the friends think? Let us hear later, and meanwhile listen to Mrs. Beardsley for whom I ask attentive ears:

I am certainly glad that some of the men speak up in self defense. "Ranchman" said some splendid things, but I wondered if he really meant all he said. If he were judging all other men by himself, it must be confessed that all too many men do have longing eyes for every nice looking, well-groomed woman they chance to meet, but I am also very sure that there are many pure and noble-minded men who are as true to their wives as the needle to the pole. In the beginning man was not a polygamous creature and we do not need to go to Lubbock to find it out. God gave Adam but one wife and for several hundred years the custom remained the same. Lamech, the seventh from Adam, a descendant from the murderer, Cain, and himself a murderer (Gen. 4) was the first to take more than one wife. However, the righteous also have descendants and there are just as pure-minded men and women in the world today as there ever were, though few it does sometimes seem. "Pedagogue," however, is just as far off as "Ranchman," but in a different direction. I wonder how he knows the possibilities of a woman's love. That no woman ever respected a man younger than herself is certainly a broad assertion. I am sure many women can tell him he does not know a thing about it. How many mothers would want a man she did not respect to be in her daughter's company, much less win her love. My mother was three and a half years my father's senior and I lived with them for more than twenty years and I am sure that no wife was ever more in love with or devoted to her husband and family, or husband truer and more affectionate to wife and home. Theirs was an ideal lovers' life for more than thirty years when death parted them, and she is still true to his memory. Personally I always preferred company older than myself, but I do know that it is quite

Some Interesting Facts About Overlands

Our 800 dealers now are selling over \$200,000 worth of Overlands daily. That's a far larger sale than was ever attained by any other car in the world.

Some of the Users

The Government is one of the Overland users. For a year and a half some of these cars have been used in carrying the mails. For 500 days they have made their regular trips, winter and summer, without a moment's delay. Each of these cars has done the work of three horse-drawn vehicles.

The J. I. Case Threshing Machine Company some time ago supplied 25 Overland cars to their country salesmen. They report that one man with one of these cars can do two salesmen's work.

The Altman & Taylor Machine Co. have also begun to supply Overlands to their salesmen.

We have recently built delivery car bodies on 900 Overlands for the use of storekeepers who want them for use as light delivery cars.

All Due to Simplicity

All these new uses for Overlands are due to their utter simplicity. A novice can run one as well as an expert.

The operation of the car is by pedal control. One goes forward or backward, fast or slow, by simply pushing pedals. The hands have nothing to do but steer.

Overlands are almost trouble-proof. The usual complexities have been avoided. One of these cars has been run 7,000 miles, night and day, without stopping the engine.

A child can master the car in ten minutes. Any member of the family can run it. And a car that is relied on to carry the mails is the car which will always keep going.

\$3,000,000 Plants

Over \$3,000,000 has been invested to produce Overland cars in a perfect and economical way. The cars are made—as watches are made—by

modern automatic machinery. Thus we get exactness to the ten-thousandth part of an inch. And thus every part is made exactly like every other similar part. All parts are interchangeable.

Because of this machinery and our enormous production we are able to make cars for less than anyone else.

This year we are selling a 25-horsepower car, with 102-inch wheel base, for \$1,000. We are selling a 40-horsepower Overland, with 112-inch wheel base, for \$1,250. And these prices include all lamps and magneto.

During the past year alone we have cut the cost of Overlands 20 per cent by multiplied production and this labor-saving machinery.

10,000 Tests

The various parts of each Overland car are subjected to 10,000 rigid inspections. Then every car, before it goes out, is given a long trial run on rough roads. One of our test roads includes the worst hill in Ohio.

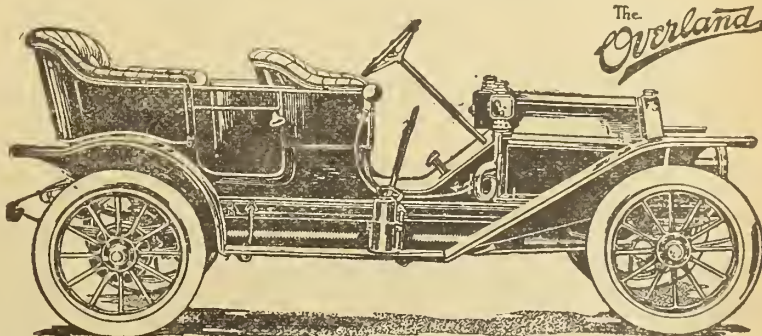
Thus we know that each Overland is a perfect car before it leaves the shop. There are no mistakes.

Those are part of the reasons why Overlands have now come to outsell all other cars that are made. You will want the car which others want when you learn the facts. If you will send us this coupon we will mail you our catalog. We will also tell you the nearest place where you can see the cars.

The Willys-Overland Co.
Toledo, Ohio.

Licensed Under Selden Patent.

Please send me the catalog free.



The 25-horsepower Overland costs from \$1,000 to \$1,100, according to style of body. The wheel base is 102 inches. The 40-horsepower Overland costs from \$1,250 to \$1,500. All prices include five lamps and magneto.



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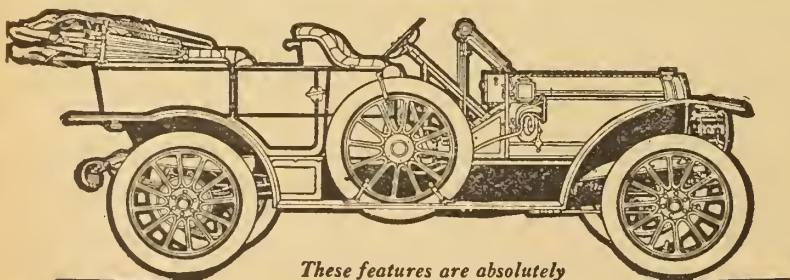
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BOVEE GRINDER & FURNACE WORKS,
200 8th STREET WATERLOO, IOWA.

possible for a womanly woman to love a man younger than herself.

A South Dakota mother comes with a word which all young mothers should appreciate, although it is specially for "Peggy D.:"

Dear Peggy D., your children can be a blessing or a curse just as you raise them to be. It rests all with the mother. The father could help, oh, so much, but as a general thing he does not know how. The mother must get and hold the confidence of her children, boys and girls alike. Never parley with them. Never say, "I will knock your head off," or "I will skin you alive if you do that again," but talk to them as though they could understand what you say. Of course I can only speak from my own experience, but that is quite broad, as I have six children, the youngest nearing a dozen years, the eldest thirty. I have a few gray hairs, but not one is caused from any disrespect or disobedience of any of my children. Never allow them to quarrel among themselves. In the very beginning give them into God's care and if you lack wisdom, ask of Him who "giveth to all men liberally and upbraideth not." Two of my children are married and they are still a blessing. Now, Peggy D., enter into the joys and sorrows of your children. Let them know they will always have a ready listener in you and if they are wrong tell them so, and explain how, and they will soon learn that you are their best friend and they will be a joy forever to you. Yes, enjoy them while they are small and when they are big, too. Never tell a child, "I will whip you good," and then never think of it again. They will soon learn to distrust you.

The joys of motherhood should be rich and full and continue while life lasts and I sometimes think that if we had more talks along such lines as this we might increase the number of those who have this joy. I am glad we have other letters on this topic to come.

Interest in the separator is growing. Good. Let us have a word from a number of those who have had experience. Today's is from a Missouri farmer's wife:

I would like to say to the Kansas Farmer's Wife that we have a separator. We have used it only a little over one week, and what I have to say for the separator is that I have churned just three times and have almost doubled the amount of butter to the same number of gallons of cream. The first time I churned I got from two and three-quarters gallons of cream, seven and three-quarters pounds of butter; the second time from two and one-half gallons of cream, seven and one-half pounds of butter; the third time I got seven and one-quarter pounds. Usually I would get from this amount of cream four to four and one-half pounds of butter, though I have a few times gotten five and one-half pounds of butter from the two and three-quarters gallons of cream. One more item I would mention; I do not have to churn but twice a week and then we do not have to churn more than twenty or thirty minutes. Before it would take an hour or more and I churned three times a week. This was done by the children in a barrel churn, and you know, if you know anything about children (and you should) that the separator is a great boon to them. Ours takes more than five minutes to wash, but still it does not take long.

What manufacturer's literature says is one thing, experience is frequently quite another—hence the value of such letters as this. We shall have another next meeting.

A request comes for a recipe for dill pickles. This is the time to make requests for help needed in the summer work of canning, etc. If you want anything let us hear from you.

DRESSMAKING—NO. 79.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

The over blouse that is cut in one with the sleeves is a pronounced favorite of the season. It is worn with the tailored suit and it is worn with the tunic to match, over a slip or gown. It is made from transparent material and it is made from thin silks and wools, it is pretty for lawns, batiste and the like and it can, indeed, be utilized in numberless ways. This one is absolutely simple. There are only under-arm seams to be sewed up and it requires scarcely appreciable time for the making. The neck can be cut either round or square and trimmed with any contrasting material. As illustrated, the over blouse is made of chiffon and is worn over a guimpe of foulard. In combination

with the simple tunic, such a blouse means a complete transformation for the gown of last season or the one that is partly worn. Made separately and in color to match the skirt, it gives the complete costume effect with the minimum of material and labor. Beneath it can be worn any guimpe or blouse.

The over blouse is made in one piece. It can be drawn up at the waist line by means of tape inserted



[6623 One-Piece Over Blouse, 32 to 40 Bust.]

in a casing or it can be adjusted over a belt as liked. The trimming is applied over neck and sleeve edges and the closing is made invisibly at the back.

The quantity of material required for the medium size is 2½ yards 21 or 24, 1½ yards 32 or 34 yards 44 inches wide with ¾ yard of silk.

The pattern 6623 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

The skirt that is drawn in just below the knees is a very fashionable one and this model is exceptionally graceful and attractive. It is made from one of the new embroidered marquisettes and over the lower edge of the gathered tunic is arranged a band of ribbon. All thin materials are appropriate, however, and a great many voiles are to be worn this season, foulard is a favorite, while chiffon cloth and marquisette greet one at every turn, to say nothing of the many still simpler fabrics that are made soft and



[6622 Tunic Skirt, 22 to 30 Waist.—To be Made With Tunic Gathered or Left Free. Perforated for Walking Length.]

pliable and are perfectly well adapted to such a model. Embroidered muslins are dainty and charming and are so treated and there are numberless other fabrics that are every way appropriate. If preferred the tunic can be left free at its lower edge, as shown in the small view, but the gathered skirt is a favorite one. As illustrated, the skirt is made with a train of moderate length and is adapted to formal occasions. It can be cut off to walking length, however, and the

tunic left free and become a simple one, suited to morning wear. The skirt consists of the seven-gored foundation and the straight gathered flounce. The tunic is circular and gathered at the upper edge. The quantity of material required for the medium size is 7½ yards 24, 27 or 32, 4¾ yards 41 inches wide.

The pattern 6622 is cut in sizes for a 22, 24, 26, 28 and 30 inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
—Lennyson.

The International Sunday School Lesson

SECOND QUARTER.

Lesson X.—Matt. XIV., 22-36.

June 5, 1910

JESUS WALKS ON THE SEA.

Jesus, Deliver!
Come thou to me:
Soothe thou my voyaging
Over life's sea.
Thou, when the storm of death
Roars sweep'ng by,
Whisper, O Truth of truth!
Peace! It is I!

—Anatolius.

Jesus sent his disciples into this storm. They were evidently disinclined to embark, not necessarily that they foresaw the danger, but probably because they did not wish to leave the Master. Every hour spent out of his company was an hour lost. Then, too, it pained them to leave him in the solitude. But Jesus was peremptory. There was nothing for them to do but to go aboard ship.

Mark says that from the mountain top he saw his disciples toiling in rowing. Their little boat was tossed about in the cliffs as through so many funnels. The crew have felt neglected, forsaken in extremity. Perhaps they were ready to repeat the words used on a former occasion, "Carest thou not that we perish?"

Still Jesus delayed the rescue which he must have intended from the beginning. As in the case of Martha, Mary, and Lazarus he did this because he loved his disciples. Their human skill, personal fortitude, and religious faith must be developed and tested. So only after the whole night was past, in the fourth—the morning—watch, Jesus came to the relief. Even then he would have passed by if they had not cried appealingly to him.

There is a strange blending of presumption and doubt in Peter's characteristic saying, "If it be thou . . .

bid me!" All went well with the impetuous disciple as long as he kept his eye on the Master. But when for an instant his attention was diverted and he saw the effects of the boisterous wind, that moment he began to sink. He did a foolish and unwarranted thing in starting on this adventure at all. But he did a wise and prudent thing now. He appealed to the only arm strong enough to rescue him. "Save! I perish!" Deliverance is instantaneous, and the rebuke is a gentle disclosure of the cause of his failure.

The moment Jesus sets foot in the little craft the tempest ceases. The storm-racked ship is transformed into a cathedral in which as sincere and devout worship is paid as has ever since been rendered at any high or jeweled altar.

It has been aptly said that sinking-times are praying-times, and this dramatic scene with its alarming extremity, but happy conclusion, has been a source of instruction, inspiration, and courage to multitudes of disciples in every age and in every kind of peril—whether self-involved or not.

The Teacher's Lantern.

Peter! doubt and thou sinkest! O believe!
The sea, Peter, will not thy faith deceive.
Things by their weight subside into the wave:
Thy lightness, Peter, threatens a wat'ry grave!

—Richard Cranshaw.

This picturesque scene is designated to be, it is, an acted parable. To his dying day each disciple must have re-

membered and treasured it. Not only so, but the church collectively and individual believers to the end of time, in their personal experience, will find cheer and help in it for the most appalling catastrophes.

Charles Sumner, in an impassioned period, once exclaimed: "In the universe of God there are no accidents. From the fall of a sparrow to the sweep of a planet he orders and governs all!"

The storms of life are no accidents. They are sent, and we are sent into them for a wise and beneficent purpose.

The Lord's clock goes at such a different rate from our timepieces. The "fourth watch" seemed mortal ages to the storm-beaten disciples.

Converts must not be coddled. Jesus might have said to Peter, extenuatingly, "Yes, the waves were high and the wind was violent." Instead of that the Master pictured the triumph of which he fell short. And he plainly told the cause of it.

The Master's caution did not save Peter from serious subsequent lapses, but perhaps it saved him from a total apostasy. Who knows?

A hand that is not ours upstays our steps.
A voice that is not ours commands the waves:
Commands the waves and whispers in our ear,
"O thou of little faith, why didst thou doubt?"

—Arthur Hugh Clough.

As the visitor stands in the porch of St. Peter's Cathedral in Rome, with his back to all its glories, the last thing he sees before going out is Giotto's wonderful mosaic of this scene. It is curiously placed on the entablature above the central portal. No one sees it on entering. No one can help but see it on going out. The purpose would seem to be to remind one of the frailty of the man for whom the most gorgeous temple on earth is named, and thus keep the balance.

In the Racovian catechism the ques-

tion is asked, "Whence did Jesus have his wisdom?" And the answer is, "He ascended often into heaven, and there received new supplies for new emergencies" (the quotation is from memory and not verified). It is a crude and mechanical conception, but in a sense very true. Every time Jesus went into the garden or mountain-top it is as if he ascended to heaven. The world was shut out and he was shut in with God in a communion in which he was refreshed and strengthened with new visions of truth as it related to present emergencies. Every disciple can imitate his Maker in this. He can make an ascension to heaven and talk with God.

In Michael Angelo's palace in Florence you are shown a secret panel in the wall. Opened, it discloses a closet lighted with one small window. Here the great artist made his ascensions to heaven which have enriched the world forever. We should never have had a statue of David, or a fresco of the Last Judgment or the Pantheon swung in the air above St. Peter's if it had not been for the secret communings of that hidden retreat.

The need of current life is an imitation of Jesus in these retreats for meditation and moral refreshment. Time apparently lost would be really gained in the better view of one's self and one's environment which would thus be obtained.

Free! SEND YOUR NAME AND ADDRESS AND THAT OF FIVE OF YOUR FRIENDS IN DIFFERENT TOWNS AND RECEIVE

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You would have one in your home before this week ends if you realized how good, how much and how comfortable you can iron with it. How easy, speedy and inexpensive to operate. Not complicated—you learn in one ironing how to handle it. Don't heat up the house to iron—use a JUBILEE this summer. Write for free booklet.

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I agree

to send you any Galloway Gasoline Engine shown in my new catalog, together with a legal, binding five-year guarantee with the privilege of thirty days' Free Trial Test. Place my engine side by side with any other gasoline engine in the world. Compare it point for point—the material—workmanship—ease of starting—economy of fuel—or in any other way you like—THEN DECIDE whether you wish to keep it or not. If it doesn't prove the best engine you have ever seen anywhere, regardless of price—if it doesn't save you from 30 to 50 per cent—keep it, send it back and I will refund every cent you have paid out on it, including freight charges both ways. That's the way I deal all around or no sale.

A post card, letter, phone or wire will get my new FREE POWER BOOK to you QUICK—and now's the time

Don't Be Fooled by the cheap quality talk of agents and dealers who go around tooting their horn and incidentally pocketing from 30 to 50 per cent extra profits to pay for the noise. Make them play fair—if they think they have an engine as good as the Galloway, ask them if they will sell on the same terms, under the same conditions that I do—but be sure and MAKE THEM WRITE IT IN THE CONTRACT.

Ask them to send you their engine on 30 days' trial. Tell them you are going to put it alongside of a Galloway and test it from every standpoint—the material, the workmanship, rated horse power, economy of fuel, simplicity, and above all, price. Tell them you are going to keep the one that makes good and return the other without cost to you. If they agree to this, you are pretty sure to get the best engine—but don't forget to MAKE THEM WRITE IT IN THE CONTRACT.

I wish that every man about to buy a gasoline engine would try the Galloway under these same conditions. I know what my engine is and what it will do, for it's made right here in Waterloo in my own big engine factories. Never was better material or workmanship ever put on an engine. It is simple in construction and easy to operate, and I guarantee to save you from 30 to 50 per cent in cost.

Now, it's up to you to protect yourself, and I have shown you how. Be your own judge and don't decide on any engine until you have had the opportunity of testing it 30 days.

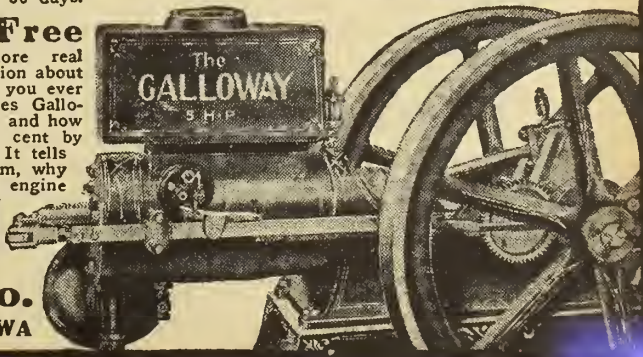
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\$119.50

FOR A GALLOWAY 5 H. P. Engine and your money back if not satisfied

The Wm. Galloway Co.
105 Galloway Station WATERLOO, IOWA



DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

June 14, Bellows Bros., Maryville, Mo.
 June 16, N. A. Lind, Rolfe, Iowa.
 June 17, F. M. Zenor, Woolstock, Iowa.
 June 21, Binford & Sons, Liscomb, Ia.
 June 28, Combination sale, Chicago, Ill.
 S. B. Smith, Mgr., Springfield, Ill.
 Oct. 4, O. L. Foster, Letts, Iowa.
 Oct. 25, Brenizer & McCullough, Broken Bow, Neb., sale at South Omaha.
 Oct. 26, P. D. Fuller, South Omaha, Neb.
 Dec. 6, Will C. Meyer, Carroll, Iowa.
 Dec. 14, C. A. Saunders, So. Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranz, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

June 29, Combination sale, Chicago, Ill.
 S. B. Smith, Mgr., Springfield, Ill.
 Sept. 29, F. J. Nelson, Sheldon, Iowa.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 6, Joseph P. Cox, Boone, Iowa.
 Oct. 18, Christian-Lang Co., Omaha, Neb.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.
 Oct. 25, Anderson & Son, Newell, Iowa.
 Oct. 26, Lakeside Farm, Storm Lake, Ia.

Hereford Cattle.

June 30, Combination sale, Chicago, Ill.
 S. B. Smith, Mgr., Springfield, Ill.
 Oct. 20, Clore and Kinsell, Chariton, Ia.

Holstein-Friesian Cattle.

June 21-23, R. E. Haeger, Algonquin, Ill.
 June 28, Henry C. Glissman, So. Omaha.

Polled Durham Cattle.

Sept. 28, H. W. Deuker, Kalona, Iowa.
 Sept. 29, L. G. Shaver, Mgr., Kalona, Ia.

Poland China Swine.

Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
 Sept. 24, Pfander & Sons, Clarinda, Ia.
 Sept. 28, H. W. Miller, Peterson, Iowa.
 Oct. 5, J. M. Stewart, Ainsworth, Iowa.
 Oct. 6, W. H. Cooper, Hedrick, Iowa.
 Oct. 7, J. P. Wycoff, Highland, Iowa.
 Oct. 12, W. J. Crow, Webb, Iowa.
 Oct. 13, E. Gritters, Hull, Iowa.
 Oct. 28, Geo. Seffrit, Lucas, Iowa.
 Jan. 19, Jas. G. Long, Harlan, Iowa.
 Jan. 19, Robert A. Schug, Coleridge, Neb.
 Jan. 20, C. R. Adams, Laurel, Neb.
 Feb. 7, W. H. Cooper, Hedrick, Iowa.
 Feb. 8, W. J. Crow, Webb, Iowa.
 Feb. 9, E. Gritters, Hull, Iowa.
 Feb. 9, C. C. Polly, Whiting, Iowa.
 Feb. 10, James Cockerton, Whiting, Ia.
 Feb. 16, Theo. Martin, Bellevue, Iowa.
 Feb. 13, E. D. Keasy, Wiota, Iowa.
 Feb. 18, W. E. Zimmerman, Neola, Iowa.
 Feb. 21, Pfander & Sons, Clarinda, Ia.

Duroc Jersey Swine.

Aug. 10, D. B. Johnson & Son, Moorsville, Ind.
 Aug. 11, M. A. Kraschel, Macon, Ill.
 Oct. 18, List Bros., Granville, Iowa.
 Oct. 19, James Williams, Marcus, Iowa.
 Oct. 20, Edmonds, Shade & Co., Kingsley, Iowa.
 Oct. 21, H. L. Cantine, Quimby, Iowa.
 Oct. 22, A. Lentz & Son, Pierson, Iowa.
 Oct. 25, W. M. Sells, Indianola, Iowa.
 Oct. 26, O. E. Osborn, Weston, Iowa.
 Oct. 28, I. H. Graham, Washta, Iowa.
 Oct. 29, T. J. Link, Winterset, Iowa.
 Nov. 10, C. L. McLaughlin, Pandora, Ia.
 Jan. 3, John Goddard, Harlan, Iowa.
 Jan. 4, C. A. Rasmussen, Harlan, Iowa.
 Jan. 5, A. F. Hager, Avoca, Iowa.
 Jan. 23, E. W. Davis & Co., Glenwood, Mo.
 Jan. 24, J. E. Smith, Victor, Iowa.
 Jan. 30, A. Lentz & Son, Pierson, Iowa.
 Jan. 31, Edmonds, Shade & Co., Kingsley, Iowa.
 Feb. 1, H. L. Cantine, Quimby, Iowa.
 Feb. 2, James Williams, Marcus, Iowa.
 Feb. 3, List Bros., Granville, Iowa.
 Feb. 4, I. H. Graham, Washta, Iowa.

Percherons.

June 28, McMillan & Sons, Sioux City, Ia.

Mules.

Oct. 19, C. C. Judy, Tallula, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 211 S. Jefferson St., Peoria, Ill.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

Dante M. Pierce, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Seward, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Red Polled bulls are advertised for sale by Mr. C. W. Huff, of Mondamin, Iowa, on page 31.

Duroc Jersey fall boars are advertised for sale by Mr. Mark W. Eddy, of Fontanelle, Iowa, on page 26.

Mr. M. T. Love, of Garner, Iowa, has two good Guernsey bull calves for sale. See his advertisement on page 25.

Mr. Joseph P. Cox, of Boone, Iowa, announces that on the 6th of October, next, he will make a public sale of Aberdeen Angus cattle.

Farmers who have not yet procured bee supplies for the season should read the advertisement on page 18 of Mr. Charles Ohloff, of Postville, Iowa. It

gives some special prices that are or ought to be particularly attractive.

Mr. J. C. Huckstep, of Eolia, Mo., proprietor of the Fairview Jack and Jennet Farm, has always a number of high-class jacks on hand and for sale at prices in keeping with the high quality of the stock. See page 31 for Mr. Huckstep's advertisement and address.

Mr. S. E. Eakle, of Prophetstown, Ill., is advertising some choice Duroc males on page 26 of The Homestead. Mr. Eakle is a hog man from start to finish and it would be to buyers' interests to write him about those fall boars. They are a well-bred lot and will suit you at the price. When writing please mention The Homestead.

Mr. Willie Essig, the well-known breeder of Hampshire swine, of Tipton, Ind., is offering some bargains in fall boars and bred gilts. The gilts are bred to farrow in August and September and are a choice lot. They are bred similar to his 1909 prize winners. Write him for prices and description, kindly mentioning The Homestead.

Readers should look up the advertisement of Mr. Geo. L. Miller, of Coal Valley, Ill., on page 26 of this issue of The Homestead. Mr. Miller has a few of those good fall boars yet for sale. They are growthy and ready for service at once. He is pricing them cheap for quality. His spring pigs are doing fine. Write him today if you need a boar. Please mention The Homestead.

Government experts, who were appointed to select the best rifle cartridges for use at national matches to be held in August, in their deliberations came to the conclusion that the .30 caliber rifle cartridges manufactured by the Winchester Repeating Arms Co. were the most accurate, and recommended that the rifle ammunition manufactured by the Winchester Repeating Arms Co. be selected for use in the matches mentioned.

Mr. Mike Sharp, of Coal Valley, Ill., is well known among Hampshire swine breeders for the quality of his herd. Mr. Sharp is a very particular man regarding the sows and boars used in his herd. They must come up to a high standard or are sent to market. He will only ship out the best of his young stock for breeding purposes. This is the kind of a breeder from whom to get a foundation for a herd. Write him for what you want, mentioning The Homestead. See page 28.

Mr. Frank Elder, proprietor of the Highland herd of Duroc Jersey hogs, of Green, Kan., writes under date of May 24th, as follows: "Please accept my thanks for the excellent service your paper has done for me. I am selling hogs every day although I am now getting low on boars. I have still a supply of bred gilts. My crop of spring pigs are doing fine and as the weather is now getting warmer they will grow and develop. Everything is prospering in Kansas. Wheat in this locality is mighty scarce, but oats and corn will make up for lost time. The hog situation looks good to me and all I wish is that I had more of them." See page 28.

The Pontiac Wear-Well shoes are advertised on page 7 of this paper. These are made by the Pontiac Shoe Mfg. Co., an old and well-established firm that has been in the business for twenty-one years. They commenced making shoes in a small factory in 1889 and by the production of good goods, succeeded in satisfying their customers and bringing up their business from year to year, so that now large plants are in operation and something like 500 people employed. If the Pontiac should not be sold in your town write to the address named in the advertisement, giving the name of your nearest dealer, when a handsome and useful souvenir will be forwarded free to your address.

Fortunatus (307092) 316, one of the leading herd bulls in the herd of Double Standard Polled Hereford herd of Mr. J. W. Wyant, of Blythedale, Mo., carries as much polled blood as any bull in the country. He should prove a valuable bull to use on the daughters of Polled Admiral, a bull Mr. Wyant has used for several years. As a sire Polled Admiral probably was one of the greatest polled bulls in the country. One of his sons was champion in the



Iowa class at the Iowa State Fair last year with horned Herefords showing. Mr. Wyant will this year have out several sons and daughters of Polled Admiral. They are the low-set, thick-fleshing kind that please the more critical cattlemen. As Mr. Wyant now has a great many Polled females in his herd and is using such strong polled bulls horned calves are rare at his farm. Trade has been exceedingly good during the past year and at present the oldest bull Mr. Wyant has for sale is a September calf. A great string of younger fellows are being brought along and by fall some exceptionally fine bulls will be ready for the trade.

See page 29 for Mr. Wyant's advertisement and when writing him kindly mention The Homestead.

Mr. H. S. Allen, of Russell, Iowa, is offering some good Duroc Jersey sows bred to his old sweepstakes boar, Crimson Wonder Again, for fall farrow, on page 26.

Wisconsin land in pieces to suit buyers at \$16 per acre, and on easy terms, is the subject of an advertisement on page 16 by Mr. G. A. McDermid, of Eau Claire, Wis.

About the best rat exterminator that can be had is a Fox Terrier dog. Mr. S. Harr, of Riverside, Iowa, announces in his advertisement on page 15 that he has one of the best of the breed for sale.

Mr. T. A. Davenport, of Belmond, Iowa, breeder of Short-horn cattle, announces on page 30 that he has for sale one good dark red bull, sired by Imp. Kinellar Stamp. The dam of this bull is Imp. Lady Belle 7th. He is seventeen months old, an excellent individual and without doubt just such a one as some of our good herds could use to advantage. Mr. Davenport also has a few younger bulls at reasonable prices.

Messrs. John Burke & Son, of Riceville, Iowa, have an advertisement on page 16 in which they announce that they have for sale 1,200 acres of land in Mitchell county, Iowa. This land lies in one body and is located five miles from one of the good little towns of northeastern Iowa. It is described as land of excellent quality, lying so that all can be cultivated, and is sold at remarkably low prices and on easy terms. These, however, may be learned by writing to Messrs. John Burke & Son, of Riceville, Iowa.

Mr. A. R. Ives, of Delavan, Wis., writes: "I have recently sold Mr. Hartwell Farwell, of Windsor, Wis., a very nice black three-year-old imported Percheron stallion and a black Percheron mare. Both of the horses were good ones. I have also sold two very choice yearling mares and a yearling Percheron stallion to Mr. J. D. Howarth, of De Soto, Wis., and a three-year-old stallion to Mr. Calvin Crandall, of Milton, Wis. My sales have been exceptionally good and I have sold a large number of stallions and mares to date." See page 31 for advertisement.

The coming of the heated season should be a hint to the head of the house that every convenience ought to be provided which will in any way reduce the discomfort and inconvenience of housework. Not the least of the plans of doing this is to buy a Jubilee self-heating flat iron such as that advertised on page 21 of this issue. Its advantages are that it is inexpensive, easy to use, and does not heat up the house. A book giving testimonials and special prices to readers of The Homestead may be had by writing to the Jubilee Mfg. Co., 514 South 14th St., Omaha, Neb.

While in Kentucky last week one of our field men called on Messrs. Bardwell & Barnard, of McHenry, Ky. These gentlemen have about 160 spring pigs, mostly by Model Top, King Wonder and The Model King of Cols., while other litters are by Prince of Cols., Cherry King and Prince Imperial. They have some good fall males yet for sale by Model Top, their noted state fair champion and a litter mate to the noted Golden Model II. Messrs. Bardwell & Barnard made a great show record last year at four state fairs. Their herd is one of the best in the land and buyers will make no mistake when they deal with these gentlemen from the Blue Grass state. Kindly mention this paper when writing.

The writer visited the good herd of Durocs owned by Mr. Chas. Cooper, of Loraine, Ill., the other day and we found him with sixty-five little red fellows on hand. He is entirely sold out of fall males and bred sows and he says The Homestead is the paper that sold them for him the past year and that trade was never better. Prices were good and customers satisfied. The young pigs looked good to us and one of the very best litters the writer has seen this season is by Mr. Cooper's noted boar, King Orion by Orion Chief. King Orion was champion boar bred by exhibitor at the Iowa State Fair, 1909, and won third in class at Illinois State Fair, 1909, in what was said to be the strongest show of junior yearlings ever seen together. He is looking now like he could make all the breeders step some this fall. Mr. Cooper's advertisement will appear in The Homestead a little later.

We wish to call attention to Messrs. Zimmerman & Kays' new advertisement on page 25 of this issue of The Homestead. These gentlemen have about 100 pigs for the season's trade and when a field man called recently they were growing fine. They are by several sires of note and buyers should write them in regard to this stuff. Messrs. Zimmerman & Kays have litters by the following noted sires: Two litters are by Defender, the state fair and International winner of 1909, one of these litters being out of a Professor dam, she being in the winning litter at the Illinois State Fair, 1909. Another choice litter is by Golden Model II, winner at Iowa and Nebraska State Fairs, 1909. Other litters are by King's Col. S. E.'s Model, Col. Stoner, J. I. C., Buddy's Top Notcher, Elmo's Inventor and other popular sires. The sows are well bred and carry the blood of different state fair champions. These gentlemen surely exercised good judgment in selecting good individuals, as well as well-bred ones, and it is safe to predict some nice stuff for the trade, as they seem to know how to care for this stuff. Should you be in the market for a boar or gilt write these gen-

tlemen, kindly mentioning The Homestead.

Twelve fall boars and twenty-five spring boars, sired by the noted big-type Poland China boar, B. Wonder, are offered for sale by Mr. J. G. Long, of Harlan, Iowa, on page 28.

A good farm of nearly a section of land is offered for sale by the Godby Land Company, as advertised on page 14. Full particulars are given. It looks like a very desirable bargain for someone who can handle that much land. Address Godby Land Company, Arkansas City, Kan.

Messrs. Sheldon Bros., of Shanron City, Iowa, have about seventy spring pigs now on the farm, the best hunch we have seen at their place in several years, and they are growing them out for the fall trade. They are sired by Harding's Proud Advance and Chief's Crimson and are largely out of granddaughters of Proud Advance and Ohio Chief. This boar, Chief's Crimson, is a three-year-old son of Crimson Chief and he is one of the smoothest aged boars seen this season. They may touch him up a little for the fairs if the corn comes right.

On page 15 our readers will find an advertisement of Mr. George T. Underhill, of Knoxville, Iowa, in which he announces that he has now for sale several fine litters of Scotch Collie puppies. These are from trained imported stock and are so strongly bred in working blood that they are easily trained, and almost without exception become valuable farm dogs. Mr. Underhill has been breeding dogs of this variety for a great many years and has sold those which have grown to be among the best of the breed. He will be glad to send an illustrated catalog, for which address Mr. George T. Underhill, Knoxville, Iowa.

Mr. W. J. Crow, of Webb, Iowa, that veteran breeder of the big type of Poland China hogs, has 125 spring pigs at this writing, and they are about the best that ever happened. They are sired by Big Surprise, Up To Date, Hadley's Expansion, St. Patrick, Tecumseh Longfellow, Big Orange and Jumbo. Their dams are by Crow's Model, Up To Date, Big Surprise, Major M., Giant's Best, Long Dude and Crow's Lad. Why shouldn't they be good? Mr. Crow will hold a sale of males on October 12th, and females on February 8th, and he expects to make these two offerings the best he has ever had, as the foundation at the present time is extra good.

Mr. J. H. Stewart, of Dickens, Iowa, is one of the popular breeders of Chester White hogs in the Northwest. He has for his spring crop of pigs ninety head. This includes twenty-seven head of February pigs, which he has raised from the product of three sows. They are the get of Onward and White Rock. Their dams are the daughters of White Oak 2d and other noted hogs of the breed. Mr. Stewart has spring pigs in his herd at the present writing that will weigh 100 pounds or better. These of course are of February farrow. Mr. Stewart raises some of the very best, and he says that none are too good for him. He is one of the best judges of white hogs that the writer knows of and when he goes out to buy a herd header he has to be right or there is no go. Mr. Stewart's advertisement will appear in The Homestead later and we will have more to say about his good pigs.

Messrs. Isenbarger Bros., of Battle Creek, Iowa, breeders of Aberdeen Angus cattle, make a change in their advertisement on page 29 that will be of interest to those who are in search of Aberdeen Angus bulls. In a letter accompanying their request for this change Messrs. Isenbarger say: "Our cattle are doing well. The crop of calves are coming along nicely. We have some fine Blackbirds sired by Black King of Homedale that should make herd headers. We have also some good Prides and Queen Mothers. We recently sold a Sybil bull to Mr. Henry Holy, of Battle Creek, Iowa and a three-year-old Blackbird bull to Messrs. D. & J. M. McKillop, of South Dakota. The latter goes to head a good pure-bred herd. We have now on hand and for sale a Jilt bull, two years old the 9th of August, and good enough to head any pure-bred herd. His sire was Black King of Homedale and his dam, Imp. Jilt of Hatton. Among our bulls around a year old are some Prides, one Queen Mother and one Erica. All are good. We are making prices on them that cannot fail to please buyers. We are getting good results from our advertisement in The Homestead."

Writing concerning his herd of Duroc Jersey hogs, Mr. A. R. Olson, of Woodward, Iowa, says: "My Duroc Jerseys are coming along fine. My litters by Golden Model are showing up well. I have fifty spring pigs. Miss Wonder, the sow that raised the litter including Model Top, Golden Model 2d, Model Again and Model Girl, has a litter of Golden Model pigs that are fine. Among them are a pair of dandy male pigs that I expect to develop into something great. Last year this sow raised me a litter by Model Chief, from which I kept two gilts for my own use. These now have litters of seven and eight. I think they are excellent and they have every reason to expect to be heard from. I also have litters by Proud Wonder (a grandson of Crimson Wonder Again), Missouri Chief (son of Valley Chief), Advancer 1st and others. The dams of these pigs are by Proud Advance, Col. Sol. Model Chief, Top Notcher Chief, Golden Model, Keep On 3d and Ohio Chief I Am." Mr. Olson's herd has been sending out some extraordinarily good specimens of the breed, and it is reasonable to expect, with the magnificent line of blood rep-

resented, it will continue to do so this year.

Thirty-two good fall Poland China boars are advertised for sale by Mr. Chas. Humerick, of Atlantic, Iowa, on page 28.

Thirty-five Chester White fall boars and sows are advertised for sale by Mr. John F. Holst, Jr., of Denison, Iowa, on page 28.

Big-type Poland-China sows bred for fall litter are advertised for sale by Mr. F. W. McIntyre, of Red Oak, Iowa, on page 28.

Messrs. Williams Bros., breeders of Poland Chinas, have an interesting offer to make the buying public on page 28 of this issue.

Messrs. Isenbarger Bros., of Battle Creek, Iowa, are offering some good Aberdeen Angus bulls for sale on page 29 of this issue.

Mr. Mathew Mertz, 907 West Fifteenth St., Des Moines, Iowa, wants to buy pure-bred poultry of the breeds named in his advertisement on page 15.

Some extra choice Aberdeen Angus bulls are advertised for sale by Mr. John H. Fitch, of Lake City, Iowa, on page 29. These are of the better families and are strictly all right.

Mr. W. C. Weber, of Little Falls, Minn., wants to sell a good half section farm, crops, machinery, stock and all. Further information is given in his advertisement on page 16.

The Springdale Stock Ranch, at Concordia, Kan., wants to buy a Holstein-Friesian bull and some heifer calves of the same breed. They tell what they want in an advertisement on page 25.

Mr. Burrett S. Allen, of Laurens, Iowa, wants to sell a 300-acre farm in Palo Alto county, Iowa. He will take one or two good draft stallions as part payment. See his advertisement on page 16.

Lake Park, Iowa, is one of the enterprising little towns in the northern part of the state. An excellent 270-acre farm in the vicinity is offered for sale by Messrs. J. G. Chrysler & Son, of Lake Park, Iowa, as per advertisement on page 16.

If in the market for a cook stove, it may save some money to investigate the bargains offered in the advertisement of Messrs. J. Allen & Co., 7111 Halstead St., Chicago, Ill., which may be found on page 14. Note in particular the special low price named.

Good Chester Whites.

Mr. J. M. Jensen, of Sibley, Iowa, has been a breeder of Chester White hogs for a number of years. This year he has about fifty head of pigs, mostly of March farrow, and they certainly are a very choice lot. They are the get of Chief, he by Provident by Absalom. Mr. Jensen's advertisement will appear in The Homestead later, with a full description of his offering.

Choice Duroc Gilts Bred.

Messrs. Chapin & Nordstrum, of Green, Kan., are offering thirty Duroc fall gilts sired by G. C.'s Col. and bred to the great Nebraska Wonder or a good son of King of Cols. II. These gilts are choice and the result of the matings will please the most critical. Some choice fall boars are also offered. See their advertisement on page 28 and when writing them kindly mention this paper.

Zimmerman's Poland Chinas.

Seventy good fall and spring pigs is the number that Mr. W. E. Zimmerman, of Neola, Iowa, is counting on his place this spring, and he is going to be right for the fall trade. Many of the spring litters are sired by Oaksie Chief, his old herd boar, and he also has two litters by Big Tom out of Big Victor sows, and these will be right for fall trade. Mr. Zimmerman makes a sow sale next winter when he will have a choice lot of matrons to offer the breeders, but he will dispose of his boars at private treaty. We therefore request our friends and farmers to remember him this fall when you want a boar pig.

Buy It for \$950.

The advertisement of the Norwalk Motor Car Company, Norwalk, Ohio, will be found on page 12. The advertisement contains a handsome picture of the "Norwalk 24," a graceful, luxurious, beautiful, speedy car, which it should seem would fill the requirement of every buyer. The complete car, in order to introduce it into communities in which it is not known, will be sold at the wonderfully low price of \$950, complete with all equipments. The Norwalk is built for hard service. Its simplicity and durability should appeal to every farmer. Further descriptions with information as to how to procure the low \$950 rate will be had by writing the Norwalk Motor Car Co., (The Auto-Bug Co.) Norwalk, Ohio.

Hendershot's High-Class Horses.

The "Hendershot way" of selling horses that has attained such popularity during the last few years is to be made still better, if possible, this season. This famous method is simply, good horses at fair prices, and every sale backed by a guarantee that is absolute. His ton horses weigh 2,000 pounds and are all fresh, young stock. Mr. Hendershot has on hand just now a line of stallions and mares that are of the very highest type of excellence. These horses have been carefully selected to get the big, rugged kind with plenty of bone and good action. Being grown largely in the open with plenty of alfalfa, gives them splendid constitutions, an important factor, and one not to be lost sight of. If you contemplate the purchase of some of this class of stock it will pay you to get prices and full particulars concerning these horses, which may be had by addressing Mr. O. P. Hendershot, Hebron, Neb.

Kindly mention this paper when writing.

The Value of the Traction Engine.

During the active farming season horses have become so important that every detail of road or farm work that can be done with other power, calls upon just such machinery as the gas traction engine. This is an engine which is sold on approval and one which is built for general work on road or farm. There are in fact few instances requiring power, in which it does not fill the full demand. Complete descriptions may be had by writing for a free copy of the "Book of Gas Traction Engines," addressing the request to Gas Traction Co., 2723-25-27 University Ave., S. E., Minneapolis, Minn.

Government Homestead Lands.

Readers of this paper who are searching for government lands that may be procured by homesteading, should read the advertisement headed "Government Land Free in Routt County, Colorado," on page 16 of this paper. The lands in question are located in a territory tributary to Denver, and hence close to an excellent market. The experience of settlers who have taken up land in this vicinity has proven its merit as producing land. Many interesting facts concerning crops raised, character of the soil and any other information that settlers may wish to learn, may be had by writing for descriptive book and map to Mr. W. F. Jones, Gen. Traffic Mgr., 710 Majestic Bldg., Denver, Colo.

Griffith's Angus Bulls.

Mr. John E. Griffith, of Washington, Iowa, has sixteen Angus bulls from ten to twenty months sold that should find ready sale at the prices asked. They are priced where any farmer with a half dozen cows could buy one and be a profitable investment. They are sired by Scottish Hero, a Pride bull, and Glen's Prileno. These bulls are in good, useful condition and will keep getting better in their purchasers' hands. They are of the best of breeding and are good individuals. If any of our readers are in need of an Angus bull and will visit Mr. Griffith's herd we feel sure he can please you both in quality and price. Write him for what

wish to secure it may do so by writing to Dodd & Struthers, Des Moines, Iowa.

Recipes for Stockmen.

The announcement of Burdick's Renovating Salt, which appears on page 13, contains the statement that the manufacturer will send free to any reader of The Homestead twenty-five of the best stock recipes in the world and also how to receive the first 100 pounds of Burdick's Renovating Salt without any cost. Write at once for these particulars to Dr. J. H. Burdick, Sandwich, Ill.

Genasco Ready Roofing.

Every farmer who has laid prepared roofing has found that at times, with most of them, there is difficulty in securing a tight seam. This trouble is absolutely disposed of with the Genasco Ready Roofing, as advertised on page 18 of this paper. The manner of laying this roofing makes an absolutely watertight seam and that without cement. Read the advertisement and write for book of samples to the Barber Asphalt Paving Co., Philadelphia, Pa., or either of the other addresses named in the advertisement.

Haeger's Great Holstein Sale.

On June 21st, 22d and 23d, Mr. R. E. Haeger, of Algonquin, Ill., will sell at public auction 325 registered Holstein cattle. The offering consists of bulls that are good enough to head any herd, a grand lot of cows and heifers of the best breeding known to the breed. The number to be sold, together with the quality of the offering, should attract buyers from all parts of the United States. The two bulls at the head of the herd are Hengerveld Beets and Woodcrest Hengerveld De Kol, both sired by Hengerveld De Kol, probably the greatest sire of the breed. They were both winners at the National Dairy Show, 1909. A number of the cows and heifers in the sale are bred to these grand young bulls. Mr. Haeger has done much for the breed and deserves the support of breeders generally. The quality of the offering merits a good turnout of breeders. The sale will be held at the farm, near town, where a new sale pavilion is being erected. There will be ample accom-

NEXT WEEK'S SALE PROGRAM

Wednesday, June 8	Aberdeen Angus, Stanley R. Pierce and John D. Evans, Creston, Ill.
Thursday, June 9	Aberdeen Angus, James Williams, Marcus, Iowa.

you want. When writing please mention The Homestead.

Good Duroc Fall Boars.

Mr. Frank Elder, of Green, Kan., has a great string of Duroc fall boars that will make herd headers. These are sons of King of Cols. II. and G. C.'s Col. and are mostly out of Model Chief Again dams. This cross has proven one of the best ever made and these boars show their superior ancestry. See page 28 for Mr. Elder's advertisement and when writing him kindly mention this paper.

Humerick's Poland Chinas.

The well-known breeder, Mr. Chas. W. Humerick, of Atlantic, Iowa, comes up smiling again this year with a nice bunch of seventy-five head of spring pigs and sixty head of fall boars and sows. The fall boars and sows are as good as we have seen in our travels this year and the spring pigs are also a good bunch from beginning to end. They are sired by Big Jericho, Young Jericho and Model Chief, and are out of his big-type sows. Among the brood sows that he now has on the place are daughters of Tecumseh Longfellow, Long King, Mastodon and other well-known big-type sires. Mr. Humerick has the size and the quality combined in his Poland Chinas and he has the type of hog that the average farmer is looking for. Just now he is offering thirty-two head of big fall boars for sale and they are good ones. Read his advertisement on page 28 and write him about these boars.

A Complete Lightning Protection.

The Dodd system of protection from lightning, which is fully set forth in the Dodd & Struthers' advertisement on page 13 of this paper, is one which has so well met the requirements of the case that it stands with scarcely a peer in its field. The Dodd & Struthers concern was organized a number of years ago in Des Moines, Iowa, and has built up a business of immense magnitude. The principal points of superiority are the practically pure copper cable rods, perfected at all points and rendered as thoroughly effective as lightning conductors as any possible system can be. The success claimed by the Dodd & Struthers Co. is well borne out by the fact that numerous fire insurance companies have expressed their confidence in it by making a reduction in rates, often amounting to 20 per cent, on those buildings which were insured with Dodd & Struthers rods. We might go still further into detail on the points of the Dodd & Struthers rods, but must ask our readers to write at once for "The Lightning Book," which is printed by this firm, and sent to our readers free of charge. Those who

modations for all attending the three days' sale. See page 28 and write for catalog, kindly mentioning The Homestead.

Stevenson's Scotch Collies.

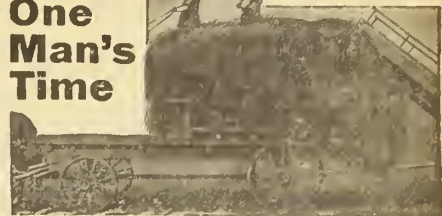
On page 15 of this week's Homestead will be found the advertisement of Mr. T. A. Stevenson, of Shannon City, Iowa, who is offering a splendid lot of high-class and well-bred Scotch Collie pups for sale. One excellent litter of eight, four males and four females, and six of these with perfect markings, are ready to be booked at any time. The sire of these pups is George Hope, a well-bred dog with a line of champion winners behind him, and the dam is Grand View Nellie, a daughter of Imp. Columbus Artist by the champion, Ormskirk Artist, for which Mr. Morgan paid \$5,000. These pups have twenty-eight champion winners in their pedigree. Another litter is sired by Guy S., another well-bred dog, and out of one of the best bitches on the farm. If our readers want a good Scotch Collie they had better book their order with Mr. Stevenson at once. The price is \$5 and \$10. Please mention The Homestead when writing him.

J. C. Droz's Duroc Jerseys.

A Homestead representative recently visited the herd of Duroc Jerseys owned by Mr. J. C. Droz, of Fairfield, Iowa. At the head of his herd is Proud Col. by Chief's Col., the Illinois grand champion of 1908, and out of Proud Fancy by Proud Advance. Proud Col. was the choice of the boars raised by Mr. H. E. Browning last year and is the best junior yearling prospect the writer has seen this year. He is a very large hog, very smooth, good set of feet and legs and bids fair to cause trouble in his class wherever shown this year. He is owned jointly by Mr. Droz and Messrs. Hank & Bishop, of New London, Iowa. Mr. Droz is a good judge of a hog and is only content with owning the best he can buy. The past winter he has purchased several extra good sows bred to the best boars in the country. Among them is a good Valley Chief sow out of a dam by Harding's Proud Advance that has seven fine pigs by Crimson Wonder Again. Another good sow is by Ohio Chief which has a fine litter of six by Defender. Another good sow is by Model Wonder and she has a good litter of six by Proud Ohio Chief. Two good litters Mr. Droz is fitting for Des Moines are sired by Proud Col. Mr. Droz is one of our good feeders and we look for some show pigs in these two litters. At the present time Mr. Droz has two fall boars sired by Model Advance Choice out of Model Wonder dams that he will price worth the money in order to make more room. They are well bred, as Model Advance Choice was sired by Model Chief's Ad-

Save One Man's Time

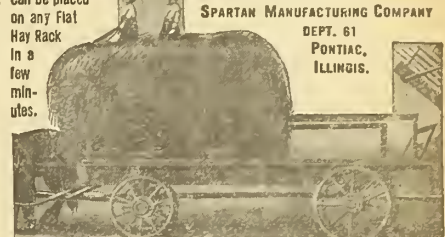
LOAD AND UNLOAD QUICKER.



A man's time saved doubles your money. You save money in handling the crop. You use the time saved to make money on something else. Quicker loading means better hay. Beat rain to the Hay Field with a

HAY LOADER HAY-CAR

Puts load in better shape for unloading with harpoon. Load taken up perfectly clean. Hay does not string, does not double under or wail. Easy to mow away. Boy of 12 can operate.



VICTOR SPEER & COMPANY,
26 State Street, Cedar Falls, Iowa.

Sell WOOL!

Pocket extra profits! Sell your wool direct to the mills, for mill prices are HIGHEST.

Through us you can sell to mill owners, then allow us a reasonable commission, and still make 2 to 3 cents extra on every pound. Others are doing it. We sell 20,000,000 pounds of wool annually. Just a postal mailed now brings details of our Proposition and interesting facts about the business methods of the biggest wool house in the country.

S. SILBERMAN & SONS, Desk 15, Chicago, Ill.
(Formerly Silberman Bros.)



GEM CITY Business College

Quincy, Ill.

25 teachers, 1400 students, \$100,000 School Building, Shorthand and Typewriting, Bookkeeping, etc. 68 page Illustrated Catalogue free. D. I. MUSSELMAN, Pres't, Box 10 Quincy, Ill.



PORTER HAY CARRIER

HAS wide open mouth and swinging fork pulley. Fills hay now full to the roof. Is without exception best hay carrier in the U. S. Send for illustrated booklet of PORTER'S up-to-date hay tools.

J. E. PORTER CO., Ottawa, Ill.

vancer, a full brother in blood to Model Chief II., the Iowa champion of 1908. Any of our readers in need of a good fall boar should write at once for price to Mr. J. C. Droz, Fairfield, Iowa. Watch these columns for further announcements regarding this herd.

"Kant-Suk" Calf Weaners.

If you were absolutely sure that for a very small price you could buy a calf weaner that would fill every requirement for such an article, would you invest? We are firmly convinced that the Wagner Specialty Company, of Burlington, Wis., have perfected an article of this kind, known as the "Kant-Suk" calf weaner. They are made in sizes suitable for both cows and calves; they are easily adjusted and can be used with no possible danger to the animal wearing it. It permits the calf to graze, eat or drink, yet it effectually prevents it from sucking the cow. Most reliable dealers handle this humane weaner. If yours does not, you can secure one by writing direct to the Wagner Specialty Company, Dept. A, Burlington, Wis. Send twenty-five cents for calf size or

thirty-five cents for cow size. An illustration of the weaner can be seen in the advertisement on page 10 of this issue.

Allen's Crimson Wonders.

Sixty spring pigs is the number that Mr. H. S. Allen, of Russell, Iowa, has on his farm so far this year, and these are sired by Crimson Wonder Again, Model Chief 8th, H. A.'s Choice Goods, Golden I Am, Golden Model 2d, High Col. and Ohio King. He has an excellent litter by Golden I Am on the place, and another by Crimson George. There are some other good litters that he is going to grow out for the fall trade, and later in the season Homestead readers will hear more of these through these columns. Just now Mr. Allen is offering some bred sows for sale, bred for fall farrow to his old sweepstakes boar, Crimson Wonder Again, and Model Chief 8th. Read his advertisement on page 26 and write him about these at once.

Lee McLaughlin's Durocs.

One of the newcomers in Duroc Jersey circles is Mr. C. L. McLaughlin, of Panora, Iowa, who is able to count 120 spring pigs so far this season. He has some good ones, too, and many of these are bred along the most approved lines. Mr. McLaughlin has an excellent boar at the head of his herd in Crimson Wonder Chief, a son of that noted old sweepstakes boar, Crimson Wonder Again. The most of his pigs are sired by this hog and from all we could see he has a good breeding proposition in him. He has a lot of well-bred brood sows in the herd, among which are about fifteen to twenty daughters of the noted boar, Lafollette, that he purchased early in the game. Mr. McLaughlin also has daughters of Tientin, Guthrie Chief, Kruger Lad, S. G.'s Crimson Improver and many other well-known sires. Mr. McLaughlin will have a grand good lot of boars for the fall trade and will be pleased to have the breeders remember him when they want a herd header later in the season.

A Rambler Five-Wheel Car.

The Rambler car advertised on page 20 of this issue is one of the very few automobiles that has five wheels. We may say in the beginning, however, that the fifth wheel is one which is furnished with every new machine, and held for use only in case of accident or emergency. The picture in the advertisement shows how it is carried. We wish there were time to go into complete detail concerning the many and superior advantages of the Rambler. As it is, however, we must be satisfied with a few brief references. The Rambler is a hill climber without superior. This fact has been proven in the most severe tests. We are advised that during the month of March last, more than double the number of Ramblers were sold than during the corresponding period a year ago. Manufacturers say the demand is for the higher-priced models. The Rambler is made by Thomas B. Jeffery & Co., of Kenosha, Wis. It is made in various sizes, styles and prices, all of which are described in the Rambler magazine which may be had by writing to the address named.

Bellows Bros.' Short-Horn Sale.

Those who attend the sale of Short-horn cattle to be held by Messrs. Bellows Bros., on Tuesday, June 14th, will have the opportunity of seeing and learning enough of the operations carried on by these gentlemen in producing better Short-horns to amply repay for the trip. This applies particularly to the younger breeders, as the Messrs. Bellows Bros. are gentlemen who enjoy lending every possible assistance and advice to brother breeders. They extend a most cordial invitation to all interested in good cattle to be their guest on June 14th. They sell fifty head of good Short-horns, the kind that experience has taught them are the best suited to our American farms. When you buy of Messrs. Bellows Bros. you buy from gentlemen who have been in close touch with cattle conditions for many years and they are gentlemen who take pride in being classed as cattle improvers. They are discriminating buyers and in their herds is found an assortment of Scotch and American-bred cattle that is most satisfactory. Good Choice and Best of Goods, two sons of Choice Goods, are the leading herd bulls and it is to the credit of the Messrs. Bellows Bros.' good judgment that these two sons of this great bull are given the opportunity they merit heading such good herds. They are probably his greatest sons and more of the blood of Choice Goods is found in this offering than has ever been put through a sale since the Tebo Lawn dispersion. Missies Sultan by Glenbrook Sultan and Diamond Goods by Good Choice assist these two great herd bulls. Diamond Goods is probably the greatest bull these gentlemen have ever produced. Last week mention was made of the bull offering, which is undoubtedly the strongest ever made by these gentlemen. The female contingent represents an assortment of families the Messrs. Bellows Bros. have found most satisfactory as producing strains. These and the high-class herd bulls in service enable Messrs. Bellows Bros. to produce cattle of such merit that they make good, as is indicated by the interest taken in their cattle by brother breeders. Several daughters of Good Choice are listed. Best of Goods has not been in service so long, consequently not so many of his daughters are listed. The blood of Whitehall Sultan will be well represented through several daughters of Chief Sultan. Fifteen of the females have calves at foot by one of the herd bulls and every female either has calf at foot or is bred to one of the bulls. The breeding herds will interest buyers

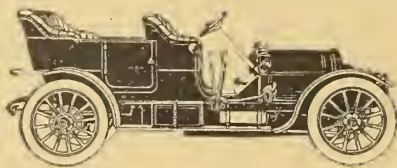
and the day will be one of interest. Send for Messrs. Bellows Bros.' beautifully illustrated catalog. It will prove interesting. See page 29 for their advertisement and when sending for catalog kindly mention this paper.

Utility Car for the Farm.

The buying of an automobile purely for pleasure riding is all very well for the city man with his good roads and ready capital. The farmer, however, demands something which shall serve other purposes as well. There is need at all times to make quick trips to town, either with produce or for any of the numerous things that have to be procured. Such a car is the Fuller. It is made in four types, has a solid tire, high wheel and is a good looker from any point of view. Its advantage to the farmer is that in an emergency the rear seat may be removed, thus providing a place for the carriage of freight of any sort. It will hold a hog crate, several sacks of grain, cans of cream, or in fact anything that the farmer may want to haul to or from town. Another attractive feature about the Fuller is its price. Write for catalog to Bradley, Alderson & Co., 10th and Hickory Sts., Kansas City, Mo.

Here's the Real Farmer's Car.

We present herewith a neat little illustration of the Kissel Kar, Model L.D.10, four or five passenger, an advertisement of which also appears on page 7. The Kissel is particularly adapted to farm work. Its simplicity commends itself to the farmer, who has found that complicated machinery is never satisfactory. The farmer is a busy man; he has no time to monkey with machines that get out of order, and appreciates a good, substantial, easy-



running machine that is ready for business at any minute. That's where the Kissel shines. It is a high standard automobile. It is low priced, is a splendid looker and will please any buyer. For the Kissel automobile book write at once to the Kissel Motor Company, 146 Kissel Ave., Hartford, Wis.

Kennedy's Chester Whites.

A Homestead representative recently called on Mr. J. S. Kennedy, of Blockton, Iowa, the well-known Chester White breeder, and found him with a nice crop of extra choice spring pigs. He only kept five brood sows and has about forty spring pigs and a number of fall sows. The most of the spring litters are sired by his new boar, Perfection, and the fall sows and one spring litter are sired by his former herd boar, Choice Goods. His splendid old brood sow, Lady Belle, has again come to his rescue with an excellent January litter, and she is rebred for fall farrow. This makes 107 pigs for this sow in seven years, or an average of over fifteen pigs to the year. Her litters have always been money makers and she has been the most profitable and most prolific sow on his farm. Queen of the Valley also has an excellent litter of six pigs by Perfection, and Rose Hanna has a litter of eight by the same boar. Mr. Kennedy has a few more good litters and is giving them the best of attention with the hopes that by fall he will have the best lot of pigs he has ever raised. They

COOPER'S RED BIRD AUTO BUGGY

A great sight, made at Dubuque, Iowa, for sixty-five years. Your dealer will get you one.

A. A. COOPER WAGON & BUGGY COMPANY, DUBUQUE, IOWA.

certainly are a nice-looking bunch at this writing.

Crimson Wonder Again Boars For Sale.

Duroc Jersey breeders who are going to want a herd boar this fall are requested to correspond with Mr. O. E. Osborn, of Weston, Iowa, who has three yearling sons of the noted sweepstakes boar, Crimson Wonder Again, for sale. These three boars were a year old last March and are out of Chief's Last Pansy, a daughter of Ohio Chief. These are herd boar propositions and one or two are good enough to head any of our best herds. Their breeding cannot be better and they are all right. Mr. Osborn has 100 spring pigs sired by Proud Commodore, Model Critic, Harding's King of Cols. and two litters are by Crimson Chief, one of the yearling boars referred to above. Write Mr. Osborn about these boars at once and kindly mention this paper.

Grant White's Durocs.

A Homestead representative dropped in on Mr. Grant White, of Afton, Iowa, one day recently and found him with about forty head of spring Durocs, and some of them look as though he will have something in the way of boars for the trade this fall. The most of these are sired by I Am Crimson Wonder and a few by White's Proud Advance. Mr. White has two spring yearling boars and one fall boar that he will sell at any time. The best one of these is sired by I Am Crimson Wonder and is out of a line-bred Crimson Wonder dam. Here is a boar that will make a good herd boar when grown out and as Mr. White has no use for him himself he will therefore price him to somebody who is looking for a herd header. He can be bought right and he is well worth the money. The other yearling is a son of Golden Model 2d and is the making of a large hog. The other is a fall boar and Mr. White will sell any one of these. If you are wanting a boar just write him and get a price on them.

Worms and Swine Diseases.

The question of ridding hogs of worms is one of constant interest to the farmer during the pig-growing season. On page 13 there appears the advertisement of Sal-Vet, a preparation which has been in the market for some time, and is commended as a great worm destroyer and conditioner. We have before us a statement by Mr. Charles E. Ogg, of Auburn, Ill., in which he says: "I have found Sal-Vet to be remarkable as a means of extermination of worms in pigs. It is easily and conveniently fed, hogs relish it and it is a fine conditioner, as well as a safe and most reliable worm remedy. The present time is an opportune one to take up the treatment of pigs so that worms may be destroyed before they arrive at a damage stage. Read the advertisement and if you care to make a trial of Sal-Vet, cut off the coupon, fill it out and forward it to S. R. Feil, president of the S. R. Feil Co., Cleveland, Ohio. Enough

of the preparation will be sent to make a sixty-day test, when if it proves satisfactory payment may be made, otherwise there will be no charge.

Miller's Large Type of Poland Chinas.

Mr. H. W. Miller, of Peterson, Iowa, will hold a Poland China sale on September 28th. At that time he will sell sixty head of male and female Poland China hogs of the large type. The breeding lines will be such as Smooth Longfellow, Long Wonder, Longfellow Junior, Victor Price, Long Prospect, Big Bone, R's Longfellow, Choice Chief Price, King Leader, Gritter's Longfellow, Big Bone 2d and others. The sale will be held in the town of Peterson. Remember the date and make arrangements to attend this good offering.

Farver Bros.' Poland Chinas.

Messrs. Farver Bros., of Ocheyedan, Iowa, have sixty spring pigs of early farrowing. They are the get of Our Dude (the one of the great sons of King Dodo), Up To Date Kind, Chief Price 2d and Hadley's Expansion. The dams of these good pigs are daughters of Dorr's Tecumseh, King Dodo, Model's Surprise. Here is where we found not a very large crop of spring pigs, but an extra good lot, all even and smooth, very thrifty and growthy. If nothing happens them, we predict a very choice lot of male pigs to be had out of this herd this fall.

Angora Goats.

On page 25 will be found the advertisement of Mr. Wyatt Carr, of Collins, Iowa. Mr. Carr has been an extensive dealer in goats, but at the present time has let his stock run down until he has about 300 left. These are wethers, does and bucks. In order to clear them out at an early date he will make some mighty good prices. Buyers will do well to look after this matter at once, as they cannot remain long unsold. Collins is located on the Milwaukee railroad and is easily reached. Mr. Carr will be glad to show his goats to prospective buyers.

Strawberry Plants.

Mr. Chas. J. Mackey, of West Liberty, Iowa, will offer strawberry plants to Homestead readers from June 20th to June 30th, and no orders will be filled before or after these dates. Mr. Mackey does not claim that this is the best season for setting strawberry plants, but owing to the failure of other fruits and the splendid yield of strawberries he will set a large bed and advise others to do so. Plants set at the dates mentioned above, with the proper care, should yield abundantly next spring. The varieties are Senator Dunlap, Warfield, Parson's Beauty, Lovett's Dornan and Brandywine. Get Mr. Mackey's free descriptive circular and price list at once, or order direct from his advertisement on page 14.

Special Summer Horse Prices.

Messrs. S. Metz & Sons, of Homewood, Ill., announce on page 25 that they landed an importation of eighty head of two-year-old Percheron stallions and mares at home April 20th, and that they are going to offer special inducements to buyers during the coming summer. These horses are thin, but are the big-boned, rugged kind, and will do well if rightly handled. Messrs. Metz & Sons have some fifty head of young mares out on pasture from which to make selections, and nearly an equal number of young stallions in their stables. To prospective buyers they will make prices and terms that cannot fail to satisfy the most exacting. Write them your wants, or, better still, go and see what they have to offer.

The Binford Short-horn Sale.

The Homestead is proud to make the announcements of Messrs. Jesse Binford & Sons, of Liscomb, Iowa. These gentlemen have been breeding Short-horn cattle for pretty close to half a century and for nearly a quarter of a century their announcements have been a continuous feature in the advertising columns of The Homestead. They are now preparing their cattle for a public sale to take place at the farm, June 21st. This sale will include around fifty head of cattle. It has been the Binford plan to make their cattle producers rather than show-yard specimens. This treatment did not tend to produce the fat, showy kind, but it did make its mark when it came to the production of calves. There are few herds that can show more calves to the number of brood cows on the farm than that of the Binfords. Thirty-five cows and heifers have been cataloged for this occasion. With the exception of three or four, all are of breeding age and more than half of these sell with calf at foot. Many of them have been bred again. A few straight Scotch females of the Louisa and Dorothy families have been put in as attractions for those who are looking for Scotch cattle. The majority of the bunch, however, are of Scotch-topped sorts, that have been the foundation of the Short-horn breeding prosperity of America. There are among them cows by Duke of Oakland 3d, Double Victor, Nokomis, Wabun, and practically the whole bunch were bred and raised on the farm. The calves are by Dainty



SHORT-HORN COW, SWEET BRIER C.

The illustration which appears above is an excellent repetition of the Short-horn cow, Sweet Brier C., that is No. 4 in the sale catalog of Mr. N. A. Lind, of Rolfe, Iowa, whose public sale takes place on June 16th. Sweet Brier C. is a splendidly-formed cow and a breeder of merit, as will be noted by the excellent calf that stands by her side. She is a daughter of Scottish Victor, a most excellently-bred son of Imp. Lavender Lad and out of Victor of Hill Farm 5th by Baron Cruickshank. Her dam was by Red Gauntlet of the Linwood herd; her second dam a daughter of the noted King James that had few superiors, and her third dam the imported cow, Sweet Brier 7th, by William of Orange. The pedigree is one that is replete with the best blood of the Short-horn breed. It traces in various branches to Amos Cruickshank's herd and includes some rare individuals. The cow will undoubtedly prove an attraction in this sale. Catalogs may be had by writing to Mr. N. A. Lind, Rolfe, Iowa. Advertisement of the sale will be found on page 28.

Scotchman 6th and Golden King, both of which are excellent young herd bulls on the farm. The latter has been cataloged for the sale. Something like a dozen bulls will be put into the sale. Several of these are of excellent Scotch breeding. One of them is contributed by Mr. Hakes, of Williamsburg, Iowa. He is a son of Narcissus King. These, however, will be given particular mention in the next issue of The Homestead. Catalogs are now ready and may be had by writing to Messrs. Jesse Binford & Sons, Liscomb, Iowa. See page 26.

Large-Type Poland Chinas.

Mr. George Glynn, of Sioux Rapids, Iowa, is a breeder of the large type of Poland Chinas, and in selecting the foundation for his good herd he bought nothing but the very best of dams, paying as high as \$150 apiece for them, and mating them to the very best boars that he could find in the breed. He has about 100 spring pigs, mostly of March and April farrow; also fourteen fall gilts and two fall boars. The two fall boars he is ready to dispose of. His advertisement appears on this page. The spring pigs are sired by Tecumseh Surprise (he by Big Surprise), Youngfellow (he by Tecumseh's Longfellow). The fall gilts are the daughters of Tecumseh Surprise, as are also the two fall boars. The dams of these good pigs are the daughters of Tecumseh Longfellow, Big Surprise, Up To Date, Longfellow 10th and others. Mr. Glynn is going to hold a bred sow sale on February 9, 1911, and expects to offer some of as good as the breed affords. Write him for prices and descriptions of his two fall boars and mention The Homestead.

100 Registered Holsteins at Public Auction.

At South Omaha, Neb., on Tuesday, June 28th, Mr. Henry C. Glissman will sell from his celebrated Rock Brook herd, 100 head of registered Holstein-Friesian cattle, and it promises to be one of the greatest Holstein sales that has ever been held in the West. There will be a grand good lot of cows in this sale and also a splendid lot of heifers. Many of these will be right at their calving and many will be in milk. There will also be about twenty-five head of bulls in the sale. These cattle are bred in the blood of the most noted winners in the East, so that when you buy these cattle you are getting the kind that will always be salable in your herd. Many of the cows and heifers that will be sold in this sale will be bred to noted bulls, so you can depend on it that you are buying the right kind. There never was a better time to buy Holstein-Friesian cattle and this will be the opportunity of this summer season. Write Mr. Henry C. Glissman, Station B., Omaha, Neb., for copy of his catalog and kindly mention this paper. See page 28.

Facts About Kratzer Carriages.

At first glance about all there is to a buggy or carriage for consideration in purchasing is that it be well made and of handsome appearance. Really there are a good many more points to be looked after, and the facts as to whether it is well made or of good materials cannot be determined by a mere inspection. For the benefit of those readers who contemplate purchasing buggies this season, we suggest that they send to the Kratzer Carriage Company, of Des Moines, Iowa, for a copy of the book entitled, "Some Inside Facts About Kratzer Vehicles," as advertised on page 2 of this issue. Read the advertisement, too. It gives the base reasons as to why Kratzer carriages are worth buying. For the book, which is free, write to the Kratzer Carriage Company, 104 West South 4th St., Des Moines, Iowa.

Beaver Creek Short-horns.

On Thursday, June 16th, Mr. N. A. Lind, of Rolfe, Iowa, will sell fifty head of Scotch Short-horns, thirty-eight females and twelve bulls. The offering consists of the most fashionable Scotch families of the breed. They are sons and daughters of some of the most noted bulls, such as Village Sultan, Sultan (the latter Mr. Lind's present herd bull, and both sons of Imp. Whitehall Sultan), Missie Pride, Imp. Fancy's Pride, Count Commodore, etc. Among the particular attractions in the sale are twenty head of young heifers just coming into their usefulness. The most of them are the daughters of Sultan. They are an outstanding lot, and among them several show prospects. The bunch is without doubt the best lot of the same number that was ever cataloged by any one breeder. Among the older females Mr. Lind has cataloged some of his best, and you know that means that there are none better. Several of the cows will have calves at foot and the balance, with the exception of the young heifers, will be safe in calf. In the bull offering Mr. Lind has collected twelve head out of about twenty-five of last year's crop for this occasion, and they certainly are a credit to any man. Several of them are outstanding, both in breeding and conformation, and show prospects, and should you want a herd header there will be no better opportunity presented to the buyer this year. There will not only be one or two of that sort, but the entire offering are herd headers to select from. They are reds and roans in color. In our next issue we will give a fuller description of these cattle. If you have not already received a catalog, write at once for one, to Mr. N. A. Lind, Rolfe, Iowa. Sale will be held on the farm, with free transportation to and from. See page 28 for

Mr. Lind's advertisement. When writing for catalog please mention The Homestead.

The Woodlawn Angus Sale, June 8th.

Among the 100 head of Aberdeen Angus cattle that Messrs. Stanley R. Pierce and John D. Evans will submit for public appraisal at Woodlawn Farm, Creston, Ill., Wednesday, June 8th, will be cattle to meet all wants. Herd-heading and steer-getting bulls are listed, and while not many are cataloged, they are the right kind and can be depended upon to give a satisfactory account of themselves. The female portion of the offering is outstanding in every respect. Ninety head of cows and heifers are listed, and over fifty of them will sell with calves at foot, while all the balance of breeding age will be safe in calf. The buyer will take no chances on these cattle. They are all of the very strongest breeding, the entire offering, with a very few exceptions, being entirely made up of Trojan Ericas, Blackbirds and Prides. We doubt if so many of these three popular Angus families were ever before listed for a one-day sale in this country. Not only are the cattle bred right, but they are right individually. It would be useless to attempt to particularize in an offering of this size. There are so many good things that a person would not know where to begin, and once having started would not have any idea where to stop, unless he went through the entire list, and space will not permit that. It is a lot of cattle that can be recommended to the readers of The Homestead in the very strongest terms, and they will amply bear out everything that may be said in their behalf. Mr. Evans is offering the very tops of his high-class herd in this sale, while Mr. Pierce is sending forward what is by far the best-bred and most even lot of individuals that has ever left Woodlawn Farm. Breeding propositions, show prospects, foundation stock of the highest class—all these will be found in abundance at this sale, and owing to the fact that 100 head are to be sold in one afternoon the advantage will be all with the buyer. It is an event that you cannot afford to overlook. The catalog should have wide distribution, as a study of the strong pedigrees contained therein will interest all. This will be the big sale of the season, and we bespeak for it the attendance and patronage that it so justly merits. The final announcement appears on page 30. Look it up and make your arrangements to be on hand at Creston, Ill., Wednesday of next week, June 8th. It will be to your advantage.

Last Call For Williams' Angus Sale.

On Thursday, June 9th, Mr. James Williams, of Marcus, Iowa, will offer to the public forty-six head of Angus cattle, the best that ever were offered from this noted herd, and one of the best that was ever offered in the United States. If there is anything in good breeding, good individuals and in good condition, Mr. James Williams has them. There are eighteen Blackbirds, four Trojan Ericas, fourteen Prides of Aberdeen, two K. Prides, six Queen Mothers, two Duchesses and one Jeanette. All are good, with not a cull among them, and every one in good condition. There will be sixteen cows with calves at foot, and nine bulls as good as ever were offered in any one Angus sale—all herd headers and some show prospects. All the females except two will be safe in calf to the service of Black Predominator, one of the best Angus bulls in the United States. Some of the calves at side are also of his get. In our last issue we mentioned a few of the good ones to be in the sale. We now call your attention to a few more. Violet Lawn Blackbird 3d is the daughter of Undulata 1to 2d. Her dam was Blackbird 4th of Greenview. She sells safe in calf to the service of Black Predominator. This is an outstanding good heifer three years old. Dolly Blackbird 17th, a three-year-old cow, will have a calf at side by sale day. She is one of the good daughters of King Edward W. Blackbird of Range Park, one of the outstanding heifers to be sold this year, will be safe in calf to Black Predominator. Blackbird of Alta 6th, another three-year-old, will sell with a heifer calf by Black Bobby. Lakeside Black Jessie is an outstanding two-year-old heifer. She is a Ballindalloch Blackbird, a daughter of Broadus Hero and out of Black Jessie. She will sell with a heifer calf at foot. Blackbird Jim W. is one of the good Blackbird bulls that are to be sold. He is by Even Lad and his dam was Afton Blackcap. If you want a herd header look after this one. In the Trojan Erica offering is Equalizer of Maple Grove, calved September 1, 1908, sired by Proud Tablet, dam Elba of Evergreen. He is one of the best individuals that will go through the sale this year. Among the choice Pride cows to be sold is Imp. Pride of Lovat 8th. She will be well advanced in calf to the service of Black Predominator. K. Pride of Undulata, a three-year-old, is one of the good ones in the sale. Pride 39th, a daughter of Black Woodlawn will sell with a heifer calf at foot by Black Bobby. Pride 24th, a five-year-old cow, sells with a bull calf at foot by Blackbird Recorder. Pride 11th of Woodlawn, a daughter of Blackcap Monarch, dam Pride of Heatherton 2d, is one of the good Prides to be sold. Among the Pride bulls is Proud Elect, sired by Elect, dam Early Pride. He will suit you if you want a Pride bull. Among the Queen Mothers, every one is a good one. The catalog is full of good ones, but we will mention South Oak Queen 4th, as she is outstanding. She is the daughter of Prince Edward of Alta, and her dam was Nodaway Queen 2d. She is a plum in any man's herd. If you have not yet got or sent for Mr. James Williams' catalog, and

TOO LATE TO CLASSIFY.

To Prospective STALLION and MARE BUYERS

WE landed home April 20th with eighty head of two-year-old Percheron stallions and mares. Being the first importers in the Percher district we secured the TOPS at prices no higher than others will have to pay for the CULLS in July and August. If you wish to purchase an extraordinary fine pair of young mares or a stallion you are invited to inspect this grand lot of young horses. We have fifty young mares on pasture being bred to one of the best horses in America, and fifty young stallions in the barn to select from. Write us your wants; it will cost you but two cents. We will save you hundreds of dollars. Homewood is on the main line of Big Four and Illinois Central Railroads, twenty-three miles south of Chicago. Suburban trains hourly. Bell telephone, Homewood 204.

S. METZ & SONS, HOMEWOOD, ILL.

PERCHERON AND BELGIAN

STALLIONS—IMPORTED AND HOME-BRED—MARES

Carefully selected to get the good, big, rugged kind; all fresh, with plenty of bone and action. All of my horses are well grown and are mostly solid colors. A splendid lot of young stallions and mares now on hand.

O. P. HENDERSHOT

HEBRON, NEBRASKA.

are interested in good Angus cattle, you should do so at once. After looking it through carefully you can then see that the field men are not overestimating this offering, for the cattle, as individuals, and the condition they are in, are just as good as their breeding, and no one will surely be disappointed on sale day in not finding one of the best offerings of Angus cattle that ever was put up at public auction in the state. Mr. Williams deserves your patronage, and wishes you to attend this sale whether you are a buyer or not. He is one of the very best of entertainers, and always serves the very best of dinners, so you certainly cannot help but enjoy yourself and have a pleasant time. Col. Silas Igo, with able assistants, will be the auctioneer. Col. M. A. Judy will be the sale manager. For catalogs address Mr. James Williams, Marcus, Iowa, and mention The Homestead. See page 29.

Solicits Entries for Chicago Sales.

Mr. Sidney B. Smith, of Springfield, Ill., who will manage combination sales of Short-horn, Aberdeen Angus and Hereford cattle at Chicago, June 28th, 29th and 30th, selling in the order named, reports that entries are coming in rapidly, but that he can still use a number of each breed. He makes a charge of \$15 per head for selling, which covers every cost except feed and stock yard charges. These sales will be extensively advertised in leading live stock papers. The spring sales at Chicago in the past have been uniformly successful, and if you have a few cattle of any of the above breeds that you wish to dispose of, get in communication with Mr. Smith, at Springfield, Ill. Entry blanks and full particulars will be sent upon request.

The Pioneer Poland China Herd.

Mr. W. Z. Swallow, of Wauke, Iowa, proprietor of the Pioneer herd of Poland China hogs, has reduced his operations to some extent during the past few years. He has this season a crop of seventy-five good pigs, however, and will undoubtedly be ready for business when selling time comes, and perhaps make his usual exhibit at the state fair. A portion of these pigs are by Adviser, he a son of Corrector, and an excellent individual. Others are by W. Z.'s Keep On. This is a hog very strongly bred along the Keep On strain and one whose ancestry have shown a remarkable tendency to carry off blue ribbons at the big shows. Still another sire that has representatives in the herd is Tecumseh Chip, a grandson of Chief Tecumseh 3d, and carrying much of the size-producing quality of that great hog. Mr. Swallow also has a number of fall pigs and should without doubt supply all buyers to those who are now in need of them.

IMPORTANT SWINE MEN'S MEETING.

The meetings to be held in Des Moines, June 14th and 15th, should be of intense interest to all who raise hogs. The program that has been prepared for the first day's session, that of the Iowa Swine Breeders' Association, is devoted to a considerable degree to discussions of the various questions involved in maintaining a condition of health among swine. The papers in this division will be from men of national prominence and ability in the veterinary profession.

The opening address, by Dr. W. B. Niles, of the United States Bureau of Animal Husbandry, who, under the subject "Prevention of Hog Cholera by the Serum Treatment," will go into detail in an announcement of the facts learned in the experimentation of the cholera problem at the experiment station at Ames, established by the government for that exclusive purpose. The conclusive results announced by Dr. Niles will be of absorbing interest.

Dr. A. T. Peters, of Springfield, Ill., director of laboratory of the Illinois State Board of Live Stock Commissioners, has consented to address the association on the best means of maintaining the general health of the herd. Dr. Peters is a leader in his profession, a gentleman of high attainments, and a most entertaining and instructive talker.

The general program will not be

ZIMMERMAN & KAYS

McNABB, ILLINOIS.

BREEDERS OF DUCOC JERSEY SWINE

100 SPRING pigs; two litters by Defender, one litter by Golden Model II; others by King's Col. S. E.'s Model, J. I. C., Col. Stoner, Emos Inventor and others. Orders booked. Stock always for sale. Please mention The Homestead.

300 Goats

Wethers, Does and Bucks.

Wyatt Carr, Collins, Iowa.

POLAND China herd headers; 2 extra good, large-type P. C. fall boars for sale; sired by Tecumseh Surprise; dams by De Pew. If you want a good one, write George Glynn, Sioux Rapids, Ia., for prices.

WANTED 2 thoroughbred Holstein bull calves from A. R. O. herd. The Springdale Stock Ranch, Concordia, Kansas.

FOR SALE Two registered Guernsey bull calves, thirteen and seven months old. M. T. Love, Garner, Iowa.

WANTED 10 thoroughbred heifer calves from A. R. O. herd. The Springdale Stock Ranch, Concordia, Kan.

lacking in interest. Among the themes for discussion will be "A Rotation for the Hog Farm," by Mr. John Thompson, of Sioux City, Iowa; "Buying Brood Sows by Proxy," by Mr. G. W. Hockett, of Manning, Iowa; "Profitable Production of Six-cent Pork on Fifty-cent Corn Under Prevailing Conditions," by Prof. W. J. Kennedy, of Ames, Iowa; "Public Sale or Private Sale," by W. H. Cooper, of Hedrick, Iowa; "The Swine Breeder's Ability to Control the Supply of Pork," and "The Maintenance of Size and Type," the two last named subjects for general discussion.

On Wednesday, June 15th, the annual meeting of the National Association of Expert Swine Judges will be held. The election of officers will take place in the morning. Mr. Sam McKelvie, of Fairfield, Neb., will open the meeting with an address on the importance of the work of the association. Then will follow the scoring of specimens of various breeds by those desirous of becoming expert judges. For this animals have been provided as follows: A Poland China by Mr. H. J. Watson, of Madrid; a Duroc Jersey by Mr. A. P. Alsin, of Boone; a Chester White by Messrs. Nagle & Son, of Deep River; a Berkshire by the Iowa State College. The members of the examining committee will be Prof. C. F. Curtiss, of Ames; Mr. W. Z. Swallow, of Wauke, and Mr. C. C. Carlin, of Des Moines.

IOWA DRAINAGE REPORT.

The report of the 1910 annual meeting of the Iowa State Drainage Association has been issued by Professor W. H. Stevenson, Ames, Iowa, secretary of the association.

The report is an exceedingly valuable pamphlet of more than one hundred pages, and will be sent to any address for twenty-five cents.

This report contains many papers and addresses of great importance and value to everyone who is interested in the drainage of farm lands. Every land owner and engineer should read Professor Marston's address on "Tile Drainage Engineering." Hundreds of farmers will also be interested in the following addresses and discussions: "Uniformity of Contracts and Specifications for Drainage Work;" "Data to be Contained in a Preliminary Drainage Report;" "Surface Water Inlets Into Ditches;" "Public Drainage in Iowa, Its Hindrances and Needs," and many others which are just as interesting and valuable.

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SHORT-HORN SALE

ON HOME FARM NEAR
LISCOMB, IOWA, TUESDAY, JUNE 21ST

45 HEAD OF GOOD CATTLE

ARE cataloged for this sale; 35 of them are cows and heifers; all but 3 or 4 of breeding age; more than half of them with calf at foot and most of these bred again. Some are Scotch, of the Louisa and Dorothy families, and the others Scotch-topped Young Marys, Filberts, Garlands, etc. Some extra good Scotch bulls go; among them our young herd bull, Golden King, and a good one contributed by W. R. Hakes. These cattle are in excellent breeding form, though not in high flesh. They are producers of the money-making sort. Catalogs are now ready.

JESSE BINFORD & SONS, LISCOMB, IOWA.

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A. V. LOCK, REMINGTON, INDIANA.
Live Stock Artist. Write me.

DUROC JERSEY SWINE.

DUROC JERSEY
BRED SOWS
FOR SALE

I AM offering about 10 sows for sale I bred for fall litter to my noted sweepstakes boar, Crimson Wonder Again, and Model Chief 8th. These are daughters of H. A.'s Choice Goods, Perfection Chief and Crimson Wonder Again. Also two fall boars for sale, sired by Crimson Wonder Again. Write me at once. Address

H. S. ALLEN, RUSSELL, IOWA.

Real Reds to "Show You"

OUR crop of spring boars (sows are all reserved) carry the blood of King of Cols., Ohio Chief, Model Chief, etc., through strains of prize winners. They are right. Orders booked now. E. W. Davis & Co., Glenwood, Missouri.

DUROC JERSEY BOARS

I HAVE four splendid fall boars for sale, sired by Iowa Model and out of Missouri Girl 11; long, wide and heavy-boned fellows. Also booking orders for spring boars. Prices, \$25 to \$50. Address

MARK W. EDDY, FONTANELLE, IOWA.
MIDLAND Herd Duroc Jerseys. Bred sows all sold. Yearling boar for sale. Orders booked for spring pigs, July delivery. S. J. Butts, Mason City, Ia.

DUROC JERSEY SWINE.

MODEL WONDER
Fall Boars For Sale

We have a few very choice fall boars for sale. One herd header of much quality out of Chief's Jewel, champion sow Iowa State Fair, 1909. Others out of Proud Advance and Top Notcher Again dams. For prices and description address

HANKS & BISHOP,
NEW LONDON - IOWA.

HIGH CLASS
DUROC JERSEY BOARS

I have five September boars sired by the sweepstakes boar, Crimson Wonder Again, and out of H. A.'s Queen for sale that are sensational herd boar propositions. Also a number of other good boars. Write or come and see me. W. M. SELLS, INDIANOLA, IOWA.

Helen's Chief
High Notcher

and Glad Col. head my herd of Durocs. Write for what you want.

M. A. KRASCHEL, MACON, ILLINOIS.

DUROC JERSEYS

Thirty fall boars and ten gilts sired by Col's King, dams by Arthur's Choice, Proud Advance, Inventor, Commodore and Tokio Paul. Would also sell Arthur's Choice, the pig that cleaned the first prizes at the Illinois State Fair, 1907. This stuff is growthy, but not fat. Arthur L. Parks, Leland, Ill.

The Sugar Loaf
Duroc Jersey Herd

Col. S. and Ohio Chief's Banner
HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

COL. J. CASTEEL
Offers Fall Boars

Ten fall males ready for service, by Champion Paul II. Dams of choice breeding. Will price them worth the money if ordered at once.

COL. JAY CASTEEL, Cambridge, Ill.

For Sale--12 Extra Choice Fall Boars

If you need an extra good Duroc boar we have them by Manley Orion's Son by Manley Orion, dam by Keep On II. These pigs are out of dams by Educator, Champion Paul and others. Will be priced worth the money and are fit for immediate service. Address

GEO. L. MILLER, COAL VALLEY, ILL.
Care of Buck & Miller.

Do You Need a Boar

I HAVE good ones by S. E.'s Model 80743 by Model Chief, dam by Advance. The dams of these boars are by Keep On III. Proud Advance and others equally as good. These males have quality and some are fit to go into the best herds in the land. Will price them cheap. My spring pigs are extra good, and of the best breeding. Write me or come and see. Please mention The Homestead. S. E. EAKLE, PROPHETSTOWN, ILL.

FALL BOARS
FOR SALE

P. O. & I. 82341, a line bred Col. and Protection B. boar of show yard quality; dams by Buddy K. IV. and Ambition. A few fall gilts, either open or will breed them. Also have 3 Scotch-topped Double Standard Polled Durham bulls for sale. Please mention The Homestead. Address

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Write Your Wants.

FOR SALE
10 FALL DUROC MALES

By Rose Chief by Belle's Chief by Ohio Chief, dams of Proud Advance and Pilot Wonder breeding. These males are ready for service and the prices are right. Write for prices and description, mentioning The Homestead. W. A. FELL, CAMBRIDGE, ILLINOIS.

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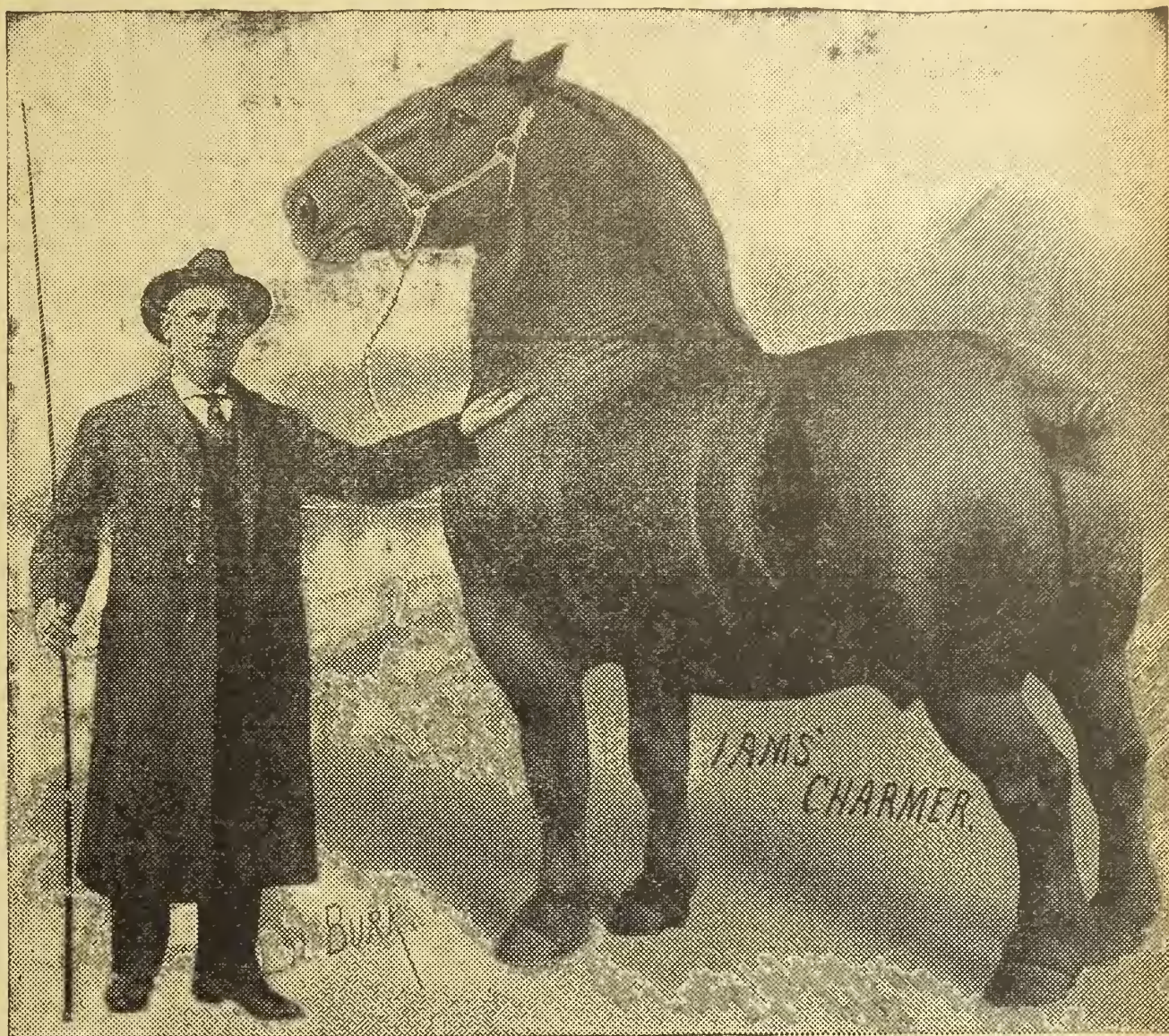
on his Imported "1909 Show Stallions" and horses bought for "1910 Show Stallions and Business Stallions," and his "new suit" of "selling clothes," will sure fit all buyers. Prices on all Iams' Imported "Show and Business Stallions" reduced \$200 to \$500 each.

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"others sell culls," and they "hypnotize" "car loads" of "Ikey Stallion Buyers" and make them "sit up and take notice" and buy Imported horses of IAMS. His big "black boys" are "ripe peaches," and all must be sold. Get on to "Iams' money-saving game." Buy stallions today. Get stallions ready for "spring business," Ikey Boy. Be the "early bird;" they get the business and choice of Iams' "black boys" and "top-notchers." "Leave your happy home," visit the "peaches and cream" stallion man, and save \$1,000. Every day is a "bargain day," a "horse show day," and a day of "profit and pleasure," at IAMS' STALLION EMPORIUM, the largest in the United States, at St. Paul, Neb. You will positively see here more imported stallions—"top-notchers," "medal winners," "ribbon grabbers" and everyday business horses—than at any "horse plant" in the United States, and double all others in Nebraska. Iams backs up his "ads" and catalogue with a "\$500 bonus" (no others do this). He gives five of the best banks in Nebraska for reference.

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Iams has positively all his largest and best horses in his barns yet. Son Ikey, all the world knows IAMS. He has a "money-saving" feeling for horse buyers. He sold 60 imported stallions and mares to "Iowa boys" in 1909, and 150 "top-notchers" to the boys with brains in other states. Iams sells 4,000 imported stallions at \$1,000 and \$1,400 (some higher). Iams sells the "wide-as-a-wagon" kind that don't need to be "peddled" or put on the "auction block" to "catch suckers." Iams is a horseman in a class by himself; he is selling more horses yearly. Ikey Boy, don't be a lobster, "be the wise guy, after all." Try Iams, the "peaches and cream" stallion man. He is the largest individual importer and breeder of Percherons and Belgians in the United States. Iams has a "warm spot" in his heart for all stallion buyers.

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by selling stallions direct to the people, saving all the middleman's profits. Iams is an expert horseman. He knows the "top-notchers" and delights in selling first-class stallions at less money than any competitors. He is "pushin'-and-a-shovin'" high prices off the Christmas tree. He is "Johnny on the spot." He is selling more stallions than any ten men in the United States. He knows the "tricks" of the slick salesmen that are "pulling the wool" over the eyes of the honest farmers and selling them a \$1,200 stallion for \$3,000 and \$4,000. "Son Ikey," form your own "stallion company." Visit Iams' town of barns filled to the roof with big "black boys," the "best ever"—"Iams' kind." His 40 stallions, 2 to 6 years old, weight 1,700 to 2,500 lbs., 90 per cent blacks, 50 per cent ton horses, are a horse show better than the International.

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Choice of His Gold Medal and Prize Stallions and a Better Stallion at \$1,000 to \$1,500

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America's Largest Sale of the World's Best Dairy Cattle.

JUNE 21, 22, and 23, 1910—THREE BIG DAYS**100 COWS.**

Many with official records and others that can make them. Great, large beauties with perfect udders and teats that are sure to please you.

200 HEIFERS.

That have their whole life before them. Sired by the best bulls and many out of large-record dams. This is greatest bunch of heifers ever offered at auction.

50 BULLS.

From two months to four years in age. Show bulls of the highest quality sired by the best bulls in the world and out of dams that show quality and production.

REMEMBER: All stock over six months old is tuberculin tested. That we offer stock in this sale that others would not price you. Catalog ready June 8th, mailed on application.

Robert E. Haeger, Box E, Algonquin, McHenry Co., Ill.**100 REGISTERED HOLSTEINS 100****AT AUCTION****At South Omaha, Neb., Tuesday, June 28th**

CONSISTING of 50 cows and heifers in milk or soon fresh, a number in calf to noted eastern bulls; 25 heifers and heifer calves; 25 bulls and bull calves. A high-class lot. Every animal tuberculin tested. Watch later issues for full particulars. Catalogs ready about June 15th.

Rock Brook Farm, Henry C. Glissman, Sta. B, Omaha, Neb.**DUROC JERSEY SWINE.****30 Duroc Gilts 30**

Summer and fall farrow. Sired by G. C.'s Kan. Col. Bred to son of King of Cols. II. and W. L. A.'s Choice Goods dam, few to Nebraska Wonder, Crim-son Wonder's best son. Also fall boars, same breeding.

CHAPIN & NORDSTRUM, Green, Kan.**BUY A BOAR NOW FOR SALE**

FIVE fall boars. Choice, growthy fellows by Hard Advance by Harding's Proud Advance; dams by Pilot Lad II. by Checkmate, second in class, World's Fair, St. Louis. These are big enough for immediate service. In writing, mention this paper.

H. K. RAY, KEWANEE, ILLINOIS.

FOR SALE—20 FALL SOWS Bred to the champions, B. & C.'s Col. and Crim-son Wonder III. They are sired by B. & C.'s Col., Col. S. and McNeil's Model. Price \$50 to \$65. First come, first served. Address: Ed. A. Baxter, Pawnee, Illinois.

R. L. Comer, Carlinville, Illinois.**DUROC JERSEY SWINE.****Fall Males and Gilts FOR SALE**

Sired by Defender and others out of the dam of Defender. Prices reasonable for such breeding and stuff of much quality. Mention The Homestead.

FRED BROWN, LOAMI, ILLINOIS.**20 Duroc Boars 20**

Got by King of Cols. II. and G. C.'s Col. Dams are Model Chief Again sows. All are good, of summer and fall 1909 farrow. Spring pigs doing fine. Address

FRANK ELDER, GREEN, KANSAS.**HUFF'S DUROCS**

HUFF'S Advance, Brighton Wonder, Buddy's Improver. A few choice September boars for sale. The "Always Better Kind."

C. W. HUFF - MONDAMIN, IOWA.**HAMPSHIRE SWINE.****MAPLE LEAF HERD OF HAMPSHIRE**

My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

A. L. GOODENOUGH, MORRISON, ILLINOIS.**Blue Ribbon Hampshires**

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead.

R. L. BOLLMAN, COAL VALLEY, ILL.**WAYSIDE HAMPSHIRE**

WE bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.

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MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper.

E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.**Hampshire Pigs**

I AM now booking orders for spring pigs—male and female—and will begin to ship about June 1st. They are by four different sires and represent the strains with which I won championship on pen of barrows at the International show of 1909.

JOHN GOODWINE, POTOMAC, ILL.**HAMPSHIRE Swine**

WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

25 Head of Spring Boars 5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable.

H. D. DeKALB - DeKALB, IOWA.**CHESTER WHITE SWINE.****CHESTER WHITE FALL BOARS**

I HAVE a few choice fall boars, old enough for service, and will quote low prices on them. Sows and gilts are all sold.

S. J. PHILSON, Route 6, Harlan, Iowa.**35 CHESTER WHITE BOARS AND SOWS**

FOR SALE—Extra good ones, sired by Buster 19085. A son of Combination out of daughters of the noted prize winner, Modeller. Prices reasonable. John F. Holst, Jr., Denison, Iowa.

O. I. C. Whites. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

O. I. C. Fall boars and gilts for sale. Sired by Highland Teddy; first at Des Moines in 1908. Address Allen Bros., Russell, Iowa.

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa

BEAVER CREEK SHORT-HORNS**AT AUCTION ON MY FARM 3 MILES NORTH OF ROLFE, IOWA, JUNE 16, 1910****52 HEAD ALL SCOTCH 40 Females—12 Bulls**

TWELVE cows with calves at foot, balance due to calve, except 20 open heifers, ages 14 to 20 months, mostly the get of Sultan, the herd bull, one of the great sons of Whitehall Sultan. All are straight Scotch, and represent the most famous families, such as Victoria, Lavender, Miss Ramsden, Dorothy and others. The 12 bulls, ranging in age from 10 to 18 months, several of them outstanding, and great show prospects for this year; all good colors and of the very best of Scotch breeding. Several of them sired by my herd bull, Sultan, and out of imported dams. This will be one of the best offerings that has ever been offered at public auction from the Beaver Creek herd. There will be free accommodations from Rolfe, to and from the farm; free lunch at noon. For catalogs, write

N. A. LIND, ROLFE, IOWA.**Cols. Woods, Bellows and Jones, Auctioneers.****CHESTER WHITE SWINE.****CHOICE FALL BOARS FOR SALE**

THEY are of the same prize-winning blood as those with which I won 141 prizes at five big state fairs of 1909. Low prices to quick buyers, as I must make room for the spring crop. **D. H. LEWIS, GENESEO, ILL.**

POLAND CHINA SWINE.**McINTYRE'S BIG-BONED POLAND CHINAS**

SPRING yearling sows bred for June and July farrow; tried sows bred for August and September. A few yearling boars, 50 choice September, 1909, boars and gilts, and boars and gilts of March and April, 1910, farrow, to be delivered at 3 to 5 months old. Blood of P. W. Giant, Hadley, Jumbo and Victor. Foundation stuff or new blood.

F. W. McINTYRE, Route 5, RED OAK, IOWA.**BIG-TYPE POLAND CHINAS With Big-Type Blood Lines**

SIXTY head of bred sows averaged \$66.87 at our last sale, supreme evidence of the kind we breed and sell. Our herd is made up of the most noted animals of the type and breed. Spring pigs of either sex by Big Ex. (the 1,070-pound son of Pawnee Chief), Superior Look (a great son of Grand Look), and Chief Price (the big yearling with a 10-inch bone), a trio of boars with few equals in the corn belt. Write for special prices on small herds not akin.

W. H. COOPER - HEDRICK, IOWA.**WILLIAMS BROS.' POLAND CHINAS**

THE LARGE TYPE, WITH QUALITY COMBINED. 275 SPRING BOARS AND GILTS, and a number of fall boars for sale. These are sired by W.'s Major 45234, Young Look 47722, Pawnee Price 47721 and Villisca Chief. **SPECIAL PRICES.** We are offering spring boar pigs and gilts at \$25 each, and we guarantee satisfaction. Also some extra choice fall boars.

WILLIAMS BROS. - VILLISCA, IOWA.**12 Fall Boars--25 Spring Boars**

I AM offering a splendid lot of big-type, big-boned fall and spring boars for sale, sired by B. W. Wonder, A Wonder, Orange King and Big Ex. Address **J. G. LONG - HARLAN, IOWA.**

FALL BOARS FOR SALE

I am now offering some splendid fall boars for sale sired by my noted show and breeding boar Big Victor and out of my best sows. Address, **D. C. LONERGAN, Florence, Nebraska.**

32 FALL BOARS

I HAVE 32 excellent fall boars for sale, sired by Big Jerico and Model Chief out of my largest big-type sows. These are big-boned fellows. Also spring boars for sale. Address **CHAS. W. HUMERICK, ATLANTIC, IOWA.**

BERKSHIRE SWINE.

Aristocrat of Hogs
You can't expect an oak from a mustard seed, nor a strong healthy litter of pigs from a worn out sow or sire. Tone up your herd with one of the famous

BERKSHIRE

boars or sows. Berkshire bacon is leaner—they fatten easier—mature earlier. Fill out better—command best prices. Morgan Farm—the headquarters for Berk sows and boars. From 300 to 700 always on hand. Send for particulars.

MORGAN FARM, Beloit, Wisconsin**JERSEY CATTLE.****Registered Jerseys**

GILT EDGE butter stock; young bulls ready for service and cows that make good. Up-to-date breeding, sound and desirable. For sale by E. S. & J. A. Buffum, LeRoy, Decatur County, Iowa.

KING SAPHO KING

THE BEST BY TEST.
Do you want Heifers or Bulls?
J. Q. Emery & Son, Edgerton, Wisconsin.

HIGH-CLASS JERSEYS

125 Reg. Jerseys to select from. Every one a money maker, splendid dairy type and fashionably bred. Write, or come and see this great herd. Females for sale, singly or in car lots; also few choice bulls. **H. C. Young, Lincoln, Neb.**

GUERNSEY CATTLE.**Richmond Guernsey Herd****Established 1887. TUBERCULIN TESTED.**

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 9386, a son of Stranford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale. **Ben Clark & Son, R. 1, Whitewater, Wis.**

When writing mention this paper.

THE NINTH ANNUAL SALE OF IMPORTED AND HOME-BRED

ABERDEEN ANGUS

CATTLE

AT MAPLE GROVE, ONE MILE WEST OF
MARCUS, IA., THURSDAY, JUNE 9, 1910

THE PROPERTY OF JAMES WILLIAMS

SIX BULLS AND FORTY COWS AND HEIFERS

OF the most fashionable families. The old famous tribe of Blackbird of Corskie holds first place in numbers as well as in the high estimation of the breeders, and eighteen head are cataloged for this sale, and a better and more useful lot of cattle never faced an Iowa crowd. The Pride of Aberdeen, with fifteen, are as good individually and in breeding as could be selected from one herd in the world. And the branches of this family are of the most noted ones, which have never and will never lose their popularity as long as they are bred right. The Trojan Ericas are six in number, but they are very few in America, and it is a great sacrifice for any breeder to offer as many as six. The Queen Mothers are as good as any breeder could ask for. If you are interested in the breeding of cattle, and you want to get started right, send for a catalog and come to this sale; you will never be sorry that you purchased cattle of Jim Williams, Marcus, Iowa. Send for catalog; mention Homestead.

M. A. Judy, Sale Mgr., West Lebanon, Ind.

Cois. Igo, Reppert, Binnie and Lyman, Auctioneers.

GUERNSEY CATTLE.

WAUKESHA GUERNSEYS

Bred for Production.
Ninety Head in Herd.

A. W. and F. E. Fox, Waukesha, Wis.

Brook Hill Farm PURE-BRED GUERNSEYS

A FEW YOUNG BULLS FOR SALE.
SEND FOR SALE LIST.

David W. Williams, Supt.
GENESEE DEPOT, - - WISCONSIN.

GUERNSEY CATTLE.

SUNNY VALLEY GUERNSEYS

Males and Females for Sale
WRITE TODAY.

W. M. JONES, WAUKESHA, WIS.

GUERNSEYS

FOR SALE—I am overstocked
and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the Island.
Yearlings and two-year-olds, at from \$200 up.
W. W. MARSH - WATERLOO, IOWA.

HOLSTEIN-FRIESIAN CATTLE.

LARGEST HOLSTEIN AUCTION

EVER held, June 21, 22, 23, 1910. Over
300 head Peaches and Cream, bred direct from
the world's champions. For information, watch The
Homestead or write R. E. Haeger, Algonquin, Ill.

Buy a Good One

I can sell you a Holstein bull which
will sire high producers. It's bred right
in them. Let me tell you about it.

JOHN ERICKSON, WAUPACA, WIS.

HOLSTEIN BULLS

TWO to twelve months old; our own breeding.
Dams give from eight to twelve thousand lbs.
milk per year under ordinary farm conditions. Sire,
Sir Netherland Cornucopia, whose two nearest
dams averaged thirty lbs. but, or and 6 nearest dams
averaged twenty-five in seven days. Why buy picked
up culls from a dealer when you can buy fashion-
able, high-class stock from a breeder? Let us send
you our price list. We price them right.
WOODLAWN FARM, STERLING, ILL.

MONONA FARM HERD

OF pure-bred Holstein-Friesian cattle, the
largest in Wisconsin, is noted, because it is made
up of animals from the most noted families of the
breed. The mating and selecting is done according
to scientific methods. Come and see what that pro-
duces. Write us for description and prices. Com-
pare the breeding, individuality and prices of what
we are offering before buying. The herd is tested
annually for tuberculosis.
P. W. ALLIS, MADISON, WISCONSIN.

HIGH GRADE HOLSTEINS

COWS or heifers in any number. They show qual-
ity and breeding. NO CHEAP STUFF. State
exactly what you want.
RIVERSIDE STOCK YARDS, Algonquin, Ill.

HOLSTEINS LAKE MILLS, WIS.
100 HEAD. A few
grandsons of Hengerveld De Kol to offer from
A. R. O. dams. High grades in carload lots that
show quality and breeding. Barn a few rods
from C. & N. W. Ry. WM. EVERSON & SONS.

MAPLE LANE Holsteins

EIGHTY HEAD IN HERD.
WE GUARANTEE OUR STOCK.
T. J. BARMORE, MONROE, WISCONSIN.

HOLSTEIN

Cows and heifers any age.
Bulls fit for service.
W. R. GATES, Fort Atkinson, Wisconsin.

HEREFORD CATTLE.

POLLED HEREFORDS

OF both sexes. One herd bull and some horned
cows bred to Success 4th, one of the best
bulls of the breed. W. H. Campbell, Grand River, Ia.

HEREFORD Cattle

GOOD young cattle, bulls or heifers, for sale. Herd
headed by Improver's Hesiod 107727. Blood
lines of popular strains.
D. S. O'LEARY - IOWA CITY, IOWA.

HEREFORD CATTLE.

Brookmont Herefords



IMP. MARCH ON 76035, Father of All
March Ons, now in Brookmont Herd.

CHOICE YOUNG HEIFERS

with calf at foot are a special offer-
ing just now. We also have a su-
perior lot of bulls, ten months to
two years old, excellent in breeding,
individuality and type. You can
have them at just about your own
price.

A. E. COOK, Odebolt, Ia.

Polled Herefords

WE offer for sale the largest bunch of Double
Standard Polled Hereford bulls in the world.
Considering age, size, color, type, breeding and the
amount of Polled blood carried, we believe we have
more good Polled Hereford bulls than any other
breeder in the world. Priced surprisingly low.
Just try us once.
Warren Gamman & Son, Des Moines, Iowa.
Originators of Polled Herefords.

HEREFORD BULLS

I AM offering six young Hereford bulls for sale;
I good, blocky fellows, with good colors and heavy
bone. Will price these bulls right. Address

A. F. HAGER, AVOCA, IA.

7 HEREFORD BULLS

FROM 12 to 24 months old, sired for the most part
by FAST FREIGHT. Good individuals, prices
right. G. G. CLEMENTS, ORD, NEBRASKA.

Polled HEREFORDS

THE largest herd in the world. My bulls carry as
many Polled crosses as are found and my females
are mostly Polled. Come and see the herd.
J. W. WYANT, BLYTHEDALE, MISSOURI

Maryville, Mo., June 1, 1910.

MR. SHORT-HORN BREEDER:

Dear Sir:—If you are in the market for a
good HERD BULL, the kind that can be
depended upon to improve your herd, a
crack yearling show bull or a senior bull
calf, for show, we beg to advise that we
have listed that kind of material for our
Annual Sale, to be held at the farm, Tues-
day, June 14, 1910.

We have also listed 40 females of the
best and most reliable sorts; 15 calves at
foot, and every female offered either has
calf at foot or has been bred to one or the
other of our herd bulls, Good Choice, Best
Of Goods, Missie's Sultan or Diamond Goods,
that we think will compare with the best.

We want you to see this offering. We
also want you to inspect our stock bulls
and breeding herd.

If you are interested in GOOD SHORT-
HORNS, the kind we have been working
30 years to produce and the kind that can
be depended upon, we want you to come
and inspect this offering.

Catalogs sent upon application. Address
BELLOWS BROS., Maryville, Mo.

ABERDEEN ANGUS CATTLE.

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and
Thicket Blackbird. 10 young bulls by Glenfold
Thicket, sweepstakes bull '08-'09 out of imported
and home-bred dams of fashionable families. 25
yearling and two-year-old heifers bred to Glenfold
Thicket, priced right for quick sales. Farm in city
limits. O. V. BATTLES, Maquoketa, Iowa.
W. P. Brown, Herdsman.

INVERNESS ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equalize
83737. Of the following families: Blackbird,
Pride, Trojan Erica and Queen Mother. Some ex-
tra good young bulls and females for sale. Address,
ED. T. DAVIS, - IOWA CITY, IOWA

ANGUS BULLS We are offering a superior lot
of Angus bulls of the best
breeding that are just ready for heavy service. We
are pricing them now to suit the man with a grade
herd, and we invite inspection. Our herd is now
headed by Imported Ideal of Strand 23158 and we
will soon be offering both cows and heifers in calf to
this noted bull. Located 17 miles east of Des Moines
on C. R. I. & P. R. Wilkinson & Sons, Mitchellville, Ia.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale,
sired by Maplehurst Hero 3d and my double-
bred Trojan Erica bull, Erica's Equestar; also a
few choice cows and heifers. Prices reasonable.
WILL L. COLEMAN, CORNING, IOWA.

Aberdeen Angus Bulls for Sale

I HAVE a splendid 2-year-old Trojan Erica, a
Home Dale Blackbird and Pride bull. Also
Queen Mothers and several younger bulls at bed
rock prices. John H. Fitch, Lake City, Iowa.

ANGUS BULLS, COWS AND HEIFERS

THREE bulls for sale; also three bull calves,
dropped last August and Sept. They are sired
by ton bulls and out of one of the best cow herds
in the state. My cattle have size, breeding, quality.
Call on or address A. G. Messer, Grundy Center, Ia.

HIGH-CLASS ANGUS BULLS FOR SALE

OF the popular strains, sired by Black King of
Home Dale, Blackbirds, Prides, Queen Mothers,
Gilt Ericas and Hoatherblooms. Our prices are
right. If in need of a bull, come and see us or write.
ISENBARGER BROS., Battle Creek, Iowa.

ALFALFA HERD ABERDEEN ANGUS
Ericas, Blackbirds, Prides, Queen Mothers
for sale. Harrison & Harrison, Indianola, Neb.

FOR SALE—A GOOD 18-MONTHS-OLD ANGUS BULL
Priced reasonable. R. J. Kidson, Pontotoc, Illinois.

THE THIRD ANNUAL SALE OF THE GREAT WOODLAWN HERD OF HIGH-CLASS ABERDEEN ANGUS CATTLE

WILL TAKE PLACE AT WOODLAWN CRESTON, ILLINOIS, WEDNESDAY, JUNE 8, 1910

THE PROPERTY OF STANLEY R. PIERCE, CRESTON, ILLINOIS, AND JOHN D. EVANS, SUGAR GROVE, ILLINOIS.

100 HEAD OF BULLS, COWS AND HEIFERS

OF the most popular families; 40 Blackbirds, more of this aristocratic family than ever was cataloged before for one sale; 18 Trojan Ericas that have never been equaled; 25 of the noted Pride of Aberdeen family and many other noted families. Nothing but the very highest bred and the best individuals of the two herds have been cataloged for this occasion. The sires in this consignment represent the blood of all the great prize winners. Nothing but high-class individuals are included in this sale. Bulls that are herd headers of the highest type. Cows and heifers that are prize winners in any class or show. More than 50 cows have calves at foot; cows that have bull calves at foot that will make herd headers; cows that have heifer calves at foot that will win prizes in any class this year. If you are interested in the breeding of beef cattle, send for a catalog, study the breeding of the animals, come to the sale and if you do not see the greatest lot of beef cattle ever sent through a sale ring we will pay all your expenses both ways. Send for catalog, mention The Homestead. If you want to see the greatest sale of beef cattle that will take place this year come to this sale.

STANLEY R. PIERCE, CRESTON, ILL., OR JOHN D. EVANS, SUGAR GROVE, ILLINOIS.
AUCTS.—COLS. SILAS IGO, BINNIE, REPERT and OCKER. M. A. JUDY, SALE MANAGER, WEST LEBANON, IND.

Creston is seventy miles west of Chicago, on the main line of the Chicago & Northwestern railroad. All trains stop at Creston sale day.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Donohoe, of Holbrook, Iowa, and C. P. Lenhy, of Parnell, Iowa. 200 head of choice Dobbies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

SHORT-HORN CATTLE.

REGISTERED BULLS WANTED

We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd headers. Write us immediately. Address Hragonier & Son, South Omaha, Neb.

A FEW CHOICE SCOTCH SHORT-HORN BULLS For Sale

I. Barr & Son, Davenport, Ia.

GEO. H. WHITE, EMERSON, IOWA,
Breeder of High-Class Short-horns.
HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address
GEO. H. WHITE, EMERSON, IOWA.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Reynal Goods, a grandson of Imp. Choice Goods. Can sell in ear load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

MILKING SHORT-HORNS

YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk, or weigh in the milk for the herd. BLACKMER & NELSON, Albert Lea, Minn. Farms 1 and 2 miles from town.

Plain View Short-horns

A FEW good red bulls, some just over a year, healthy and thrifty, but not over fat, at farmers' prices if taken soon. All by good Scotch bulls. GEORGE A. HANS, NEWTON, IOWA.

A Scotch Herd Header For Sale

DARK red, by Imp. Kinellar Stamp and out of Imp. Lady Belle 7th, 17 months old. Also several younger bulls that will soon be a year old. T. A. DAVENPORT, BELMONT, IOWA.

SHORT-HORN CATTLE.

ELK CREEK SHORT-HORNS

Five good bulls for sale, sired by Jolly Hampton, Custer Butterfly and Crimston Scot. Good colors and good individuals. Prices right. Auto phone 1902. Address

S. A. Nelson & Sons, Malcolm, Neb.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

SCOTCH and SCOTCH-TOPPED BULLS

I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athene. Others that are strictly choice. Also several Scotch-topped bulls by Lord Mitineer. Prices low if taken soon. PERRY O. BROWN, LAMONI, IOWA.

FOR SALE QUICK

A "REAL" herd header, red, "Cruickshank Seeret," 22 months old, bred by Chas. C. Norton, son of his noted "Gloster's Favorite." You will buy if you see him. Write us now for particulars. H. S. & W. B. Duncan, Clearfield, Taylor Co., Ia.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Wm. M. Smith & Sons, West Branch, Iowa.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The International winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants. W. J. HATHER, ORD, NEBRASKA.

SHORT-HORN CATTLE.

CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and bred to Narcissus King, singly or by cartload. You will buy if you see them.

R. J. COX - - - - GRINNELL, IOWA

High-Class Scotch SHORT-HORN Bulls

WE have a number of bulls right around a year old, solid red in color; blocky, symmetrical, well-finished fellows, with merit enough to entitle them to places at the head of good herds. They are all by Lord Banff Jr. and out of cows of straight Scotch lines of breeding. We want you to see them.

G. A. BONEWELL - - - - GRINNELL, IOWA.

MONDAMIN SHORT-HORNS

WE now offer three yearling bulls at prices that will induce men to buy. Two red ones by Vallant Jr., a roan by Gwendoline's Boy. Also some choice younger calves by same sires for sale. Visit or write us. Address

HELD BROS., HINTON, PLYMOUTH COUNTY, IOWA.

SCOTCH BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.

Good Red Short-horn Bulls

A DOZEN Scotch and Scotch-topped bulls, 10 to 24 months old, some good enough for the best herds, others suitable for farmers. Sires Courtier 5th 277599 and Baron Seer 2d 289279. Address

OWEN'S BROS. - - HOMESTEAD, IOWA.

GOOD RED SHORT-HORN Bulls

FOR SALE. Sired by Knight Commander, he by the great March Knight; also a limited number of choice females. Get my prices before buying.

HENRY P. McCARTNEY, YORK, NEB.

BATES BULLS

SOME choice Short-horn bulls of the most fashionable Bates breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

5 GOOD SHORT-HORN BULLS

Scotch and Scotch-Topped. From good milking daus. Prices reasonable. F. M. Hall, Friend, Neb.

Cedar Hill Short-horns

Three good young bulls for sale. Best of breeding and individuality.

IRVIN E. WILSON, Helvidere, Nebraska.

When writing mention this paper.

SHORT-HORNS AND POLAND CHINAS

Five Scotch and Scotch-topped Short-horn bulls. Three extra Poland China fall boars. Bulls are sired by Victor's Roan Duke, Lavender King and Cry Chief. Boars by Wade's Jumbo and Allerton Chief. Best of individuals and are priced worth the money. Address

O. E. WADE, Rising City, Nebraska.

WHITE BROS.

CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Pehcheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

LAWNDALE SHORT-HORNS

FOR SALE: Six choice Scotch and Scotch-topped bulls from 14 to 24 months old. Good individuals, good colors and best of breeding. Will be priced low for quick sale.

G. T. HAGGARD, HELVEY, NEB.

Wildwood Scotch and Scotch-Topped SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls. Headlight and Brawith Lad. For description and prices, address

W. W. VAUGHN - MARION, IOWA.

When writing mention this paper.

HORSES AND JACKS.

I STILL HAVE TWENTY-FOUR BIG, HEAVY PERCHERON STALLIONS and BELGIAN STALLIONS

WHICH I am very anxious to sell. Am offering the most tempting prices for big stallions that have ever been offered. Have had nice trade in heavy stallions this season, but still have on hand a larger number than I wish to carry over, and those who need big, heavy, first-class, sound stallions, cannot afford to miss seeing mine. These stallions ought to be sold; they should not be standing idle this season.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of
PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.**

Percheron Stallions Imported and home-bred, that have size, bone and quality. Prices and horses to suit you. 22 years a breeder. Will F. Hooker, Northboro, Page Co., Ia.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.

RED POLLED CATTLE.

RED POLLED BULLS

TWO yearlings and some younger ones. Also offer our herd bull, Advancer, by Profector. Write for description, breeding and prices.

C. W. HUFF - MONDAMIN, IOWA.

CHOICE RED POLLS FOR SALE

SINGLY or in car lots. Best of breeding, good individuals and splendid milkers. These cattle are priced to sell.

Wendell Heil & Sons, Cedar Creek, Neb.

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

POLLED DURHAM CATTLE.

POLLED DURHAMS

FOUR choice two-year-old heifers, sired by Agate's Don Joe by Royal Duke. Good individuals. Splendid milking strain. Priced reasonable.

Walter Johnson, Dorchester, Nebraska.

Ottumwa W. B. Bonfield, Ottumwa, Iowa, breeder of Double Standard Polled Durhams. Bulls and heifers for sale. Fair prices.

Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. Wm. Barrans, Lenox, Iowa.

GALLOWAY CATTLE.

GALLOWAYS

HEIFERS, cows and hulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address

John C. Gahring, R. 1, Box 29, Marengo, Ia.

AYRSHIRE CATTLE.

Ayrshire Cattle

Some of the best young things we have ever offered. They are bred at the top.

FRED TSCHUDY, MONROE, WISCONSIN.

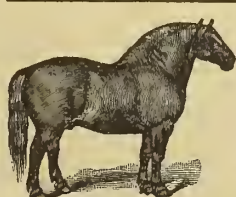
Clydesdale Headquarters

McLAY BROS., JANESVILLE, WIS.
NEW IMPORTATION--18 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine International than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLAY Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English, Shire, Suffolk Punch and German coach stallions at \$100. Home bred registered draft stallions \$300 to \$650.

FRANK L. STREAM, Creston, Iowa.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri Jacks—the best that grow—14 to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop., EOLIA, MO. Pike Co.

MARES FOR SALE

The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an International winner, and one imported Hackney mare, both with foal. Also one first-class Short-horn bull. Address

DIVISION OF AGRICULTURE, IOWA STATE COLLEGE, AMES, IOWA.

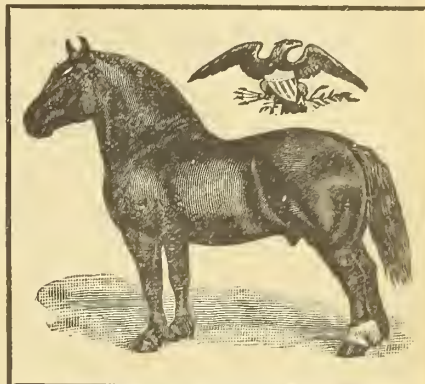
When writing mention this paper.

HORSES AND JACKS.

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

Percherons, Belgians, Shires, German and French Coachers, Hackneys.



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

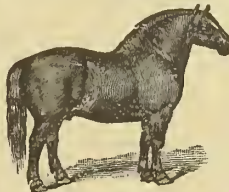
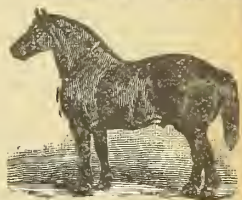
A. B. HOLBERT, Greeley, Ia.

DRAFT HORSE HEADQUARTERS

GREELEY, IOWA.

DRAFT horse buyers will find at our barns a lot of valuable stallions—Belgians, Percherons and Shires of right age for immediate service. A few good Coachers. Come and see how cheap we sell.

W. A. LANG & CO., GREELEY, IOWA.



BELGIAN EMPORIUM of AMERICA

STALLIONS all sold. Can spare a few more mares, your choice from thirty. I have sold over one hundred head this past season, and will return from Belgium, Sept. 1st, with another supply to refill all my barns.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA.

OUR LAST IMPORTATION OF IMPORTED PERCHERON Stallions and Mares LANDED AT OUR BARN IN OCTOBER

We have 60 head of Percheron and French Draft Stallions, mares and colts; blacks and grays; some extra topky stock. Imported and native-bred. Farm 2 miles from town. Telephone connection. **BLOUGH BROS., FAIRFIELD, IOWA.**



AT LOW PRICES

BELGIANS PERCHERONS GERMAN COACHERS
A. R. IVES, DELAVAN, WISCONSIN.

MAMMOTH JACKS

We make a specialty of fine young Jacks. All stock sold under a positive guarantee. We can show you more quality for the money than can be found elsewhere. Write for what you want or come and see us.

RENO & MORRISON, BATAVIA, IOWA.



WE HAVE EIGHTY-FIVE PERCHERON STALLIONS and MARES FOR SALE AT KEOTA.

50 Stallions—35 Mares

We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold, come and see Keiser's Percherons at Keota.

C. O. KEISER, Keota, Ia.

Shetland Ponies for Sale

I AM offering eight head of Shetland ponies for sale at from \$65 to \$125. Also one 5-year-old black Shetland stallion and one 2-year-old Percheron stallion. Address H. W. Littleton, Harlan, Iowa.

ADVERTISEMENT

ATTENTION, IOWA FARMERS!

Col. David J. Palmer, the farmers' friend, is a candidate for renomination as Railroad Commissioner of Iowa at the Republican State Primary to be held Tuesday, June 7th. Your interests and the continued welfare of the state demand his renomination and reelection.

COLONEL PALMER HAS BEEN A FARMER ALL HIS LIFE. HE IS THE SON OF A FARMER. HE HAS LIVED ON THE SAME IOWA FARM FOR THE PAST 55 YEARS. HE KNOWS ALL THE PROBLEMS OF THE FARMER. HE KNOWS HOW TO LOOK AFTER THE FARMERS' INTERESTS IN AS POWERFUL A BOARD AS THE RAILROAD COMMISSION OF IOWA. When you go to the Polls on June 7, remember to

Mark Your Ballot: Railroad Commissioner X David J. Palmer

The farmers of Iowa are extensive shippers. Three-fourths of the produce they grow and two-thirds of the live stock they raise are shipped from one point to another. It is to the farmer's interests to see that he gets justice and a square deal from the shipping companies. His interests are best safeguarded by having a member on the Railroad Commission.

Col. David J. Palmer serves no master, but he has the interests of his fellow Iowa farmers closer at heart than any other interests.

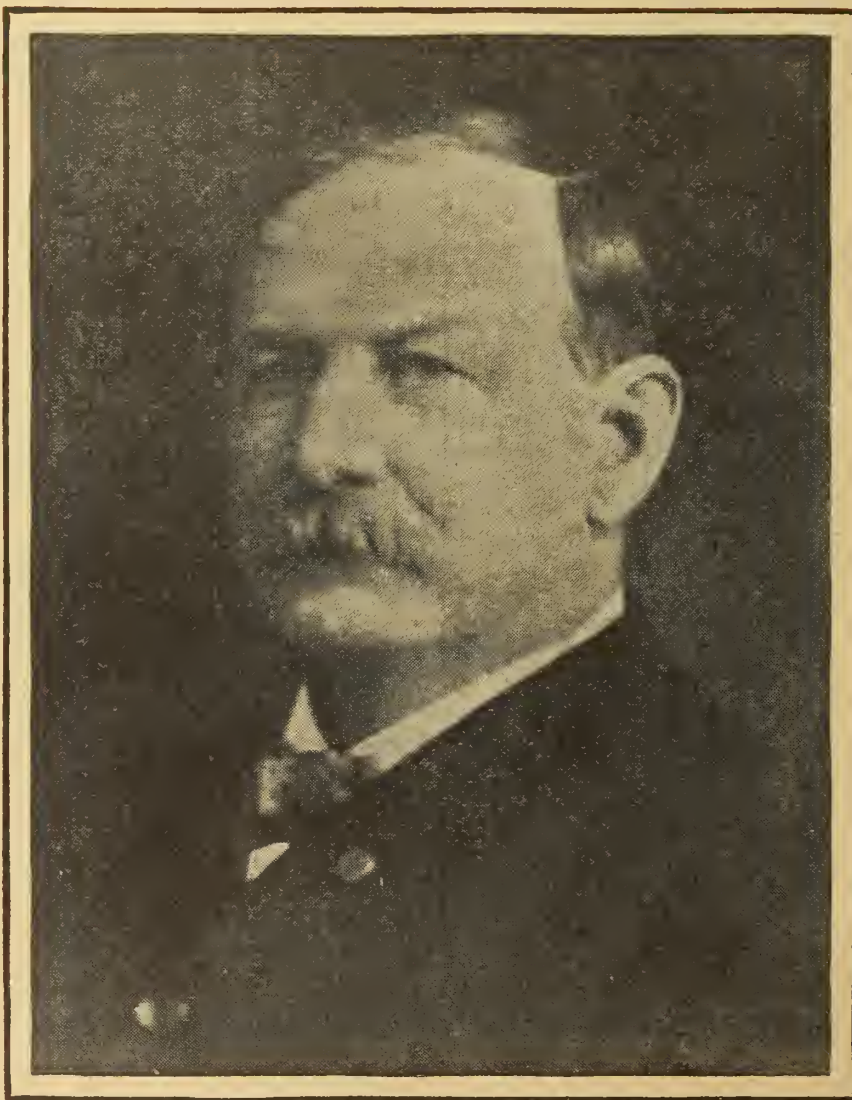
The Iowa farmer can rest content so long as he has as ardent and powerful a champion as "Dave" Palmer in authority at Des Moines.

David J. Palmer was born on a farm in Washington county, Penn., in 1839, the son of a farmer. He attended the country schools of Pennsylvania and at the age of seventeen accompanied his parents to Iowa, where they settled on an eighty-acre farm in Washington county. Colonel Palmer still makes this farm his home and has improved it until it is one of the best in all Iowa. He has been a practical farmer and an eager student of agricultural matters all his life, with the result that he has been beset by all the problems of the average farmer and knows from experience how best to meet the needs of the farmers, who might otherwise be at the mercy of the city buyers and the railroad companies.

Colonel Palmer went direct from the farm to the battlefield. He enlisted as a private in Co. C, Eighth Iowa Volunteer Infantry, on August 10, 1861. At the battle of Shiloh he was severely wounded in the breast and was sent back home. He reenlisted, however, in the Twenty-fifth Iowa Volunteer Infantry and for courageous service was promoted to Lieutenant-Colonel. He was with Grant at the siege of Vicksburg and in the Chattanooga campaign; went through the Atlanta campaign and marched with Sherman to the sea. He was in the grand review in Washington, May 24, 1865, and was honorably discharged, many times wounded.

Colonel Palmer has served the people as road supervisor, county auditor, state senator, presidential elector and railroad commissioner.

Since Colonel Palmer has been a member of the Iowa State Railroad Commission, 340 rate reductions have been made and but two raises in rates, and these due to errors in classification. Besides these rate reductions, the board promulgated the famous Joint Rate Order, uniform demurrage rules (of great advantage to shippers), and many other



COL. DAVID J. PALMER

FARMER, SOLDIER, RAILROAD COMMISSIONER, USEFUL CITIZEN.

rules giving distinct concessions to shippers of freight in Iowa. Also, during this time, three complete revisions of the Iowa classifications have been made, involving many months of painstaking care and labor.

Aside from rate cases the records show that the board during the same period has closed, either by decision or amicable adjustment, 2,884 complaints. Of this number about 8 per cent were denied, leaving 2,307 cases that were closed to the satisfaction of the complainants.

In response to the appeal made by the Iowa Railroad Commission, the committee of the United States House of Representatives has restored to the interstate commerce commission bill, now pending, that section which protects Iowa from national interference with intrastate railroad traffic.

During the discussion of the measure and subsequent amendments that section of the bill designed to protect Iowa and other states from national interference with the operation of the state board of railroad commissioners was stricken out. Immediately the Iowa board communicated with Iowa representatives in the house, urging the section be restored, and in accordance with this request the following section has now been re-incorporated in the measure:

"Provided, however, that the provisions of this act shall not apply to the transportation of passengers or property, or to the receiving, delivering, storage or handling of property wholly within one state and not shipped to or from a foreign country, from or to any state or territory as aforesaid."

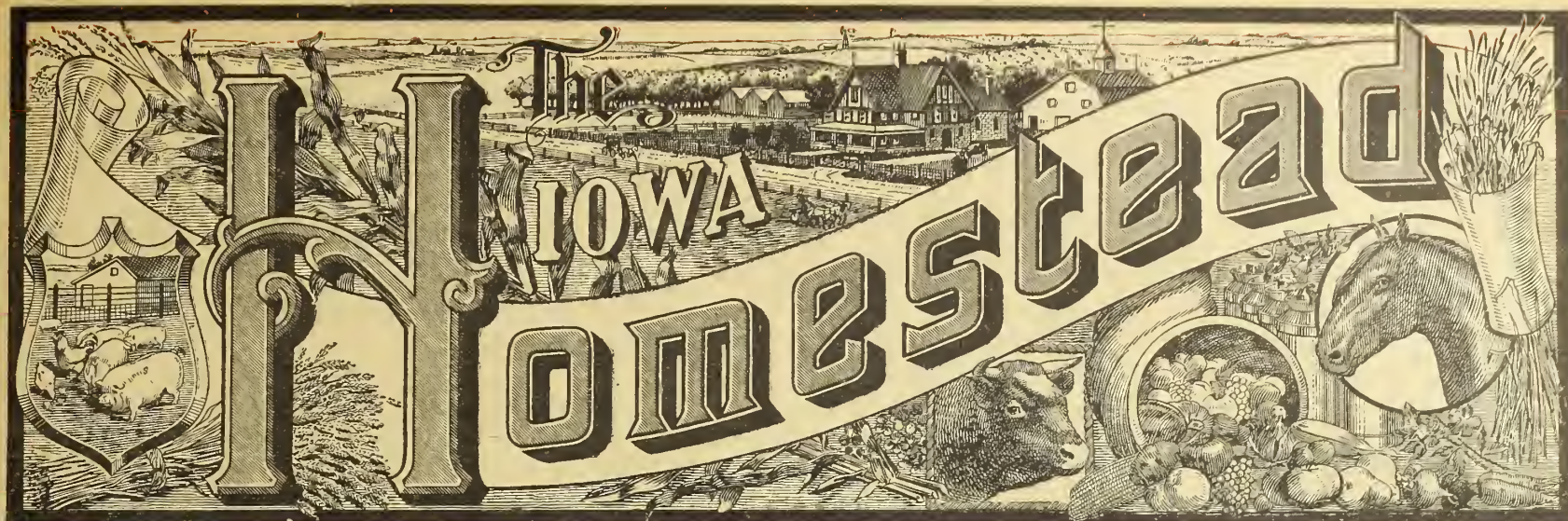
"Should the proposed bill become a law without that restrictive qualification," says Col. David J. Palmer, chairman of the Iowa Board of Railway Commissioners, to whom credit is due for the action, "the control of intrastate rates of railroads might be taken from the

Iowa commission and regulated by the national commissioners, probably selected from other states. Iowa wishes to control the rates between the two big rivers as is best to the advantage of the Iowa producers and manufacturers. We don't want this right taken from the people of this state and given into the hands of men from other states. That is why the Iowa commission, in the interest of the people who elected its members to office to protect Iowa interests, protested against leaving out this clause that keeps in Iowa the power for the state to regulate and control its own railroad rates."

COLONEL PALMER IS A TRIED AND TRUE PUBLIC SERVANT, ABSOLUTELY HONEST, HONORABLE AND UPRIGHT, A GENTLEMAN ABOVE REPROACH.

A vote for DAVID J. PALMER is a vote for the RIGHT MAN and A SQUARE DEAL.

IOWA FARMERS, WILL YOU SEE TO IT THAT YOUR VOTE COUNTS




VOL. LV. NO. 23

DES MOINES, IOWA, JUNE 9, 1910

WHOLE NO. 2743





FREE This Dictionary of Cream Separator Knowledge

Contains more live, useful and profitable information than any other book ever written on cream separators.

Absolute Facts

Send for it Now

THE MOST PLEASANT AND PROFITABLE DEPARTMENT ON THE WHOLE FARM

If You Own a Single Cow You Can't Afford to Be Without This Big Book

It tells you the whole history of the Cream Separator business and how you can make big extra profits from your cows. It explains the price question and why agents and dealers everywhere are obliged to charge you from \$25 to \$50 more for a cream separator than I do. It solves the skimming question completely and shows by illustration and actual tests just how much you are losing in dollars and cents in wasted cream by the use of inferior machines or hand skimming. And that is not all; it tells you—and proves it—that the Galloway is the most wonderful skimming machine ever invented; that it is made better and of better material and a closer skimmer and a greater money maker than other separators selling for double the price. It is sold with a longer Free Trial Proposition; a stronger and more binding guarantee and longer time warranty than has ever before been offered, and what is more it is sold at such an extremely low price and on such liberal selling plans that nobody owning even a single cow can afford to be without one.



Here's another book you get FREE "The Proof of the Pudding"

It contains hundreds of unusual letters fairly bristling with truth and enthusiasm for the Galloway Cream Separator. These letters are from men scattered throughout every state of the union—men who have long been operating a Galloway Separator and know what they are talking about. I don't ask you to take my word about what this machine is or what it will do. Take the words of these honest men who have had the experience, not only with the Galloway, but with many other makes of cream separators. They will tell you "How it compares with the high priced machines." "How much it saved them in first cost." "How much money it has made for them." "How little it costs them for repairs." "How easy it runs." "How easy to keep clean," and many other questions you would naturally ask if about to buy a cream separator. It's a wise man who profits by the experience of others, and you can't make a mistake by buying the cream separator that these hundreds of men say is the best.

The Galloway "Bath-in-Oil" Separator is a machine of many exclusive features

ALL GEARS ENCASED AND RUN IN BATH OF OIL, DUST PROOF, NO OIL HOLES, POSITIVE ASSURANCE AGAINST WEAR, SWING SUPPLY TANK ONLY 38 INCHES HIGH, HIGH CRANK PREVENTS STOOPING, CLOSEST SKIMMER, EASIEST TO RUN AND CLEAN OF ANY MACHINE EVER BUILT.

90 Days' Final Approval

I will send any one of my Galloway Cream Separators to anyone anywhere on 90 days final approval. Place it alongside of any other machine in the world and compare it point for point. If you don't find it better made, of better material, a better skimmer, and easier to run and keep clean than any other machine you can find, send it back and I will not only refund your money, but pay any expense you may have incurred in giving the test.

The Galloway is made in all sizes to suit your requirements, from 200 to 1200 pounds capacity. It is made and sold direct from our own factory to you at the actual cost of material and labor with just one small profit added. There is no use paying big profits to a lot of middlemen when you can buy a Galloway at such wonderfully low prices and on such liberal selling plans as I offer you.

Don't put off a single minute. Sit right down now and send for these two books. They are free for the asking, and it will only cost you a stamp to get them.

Wm. Galloway

Low Tank High Crank Makes Work Easy

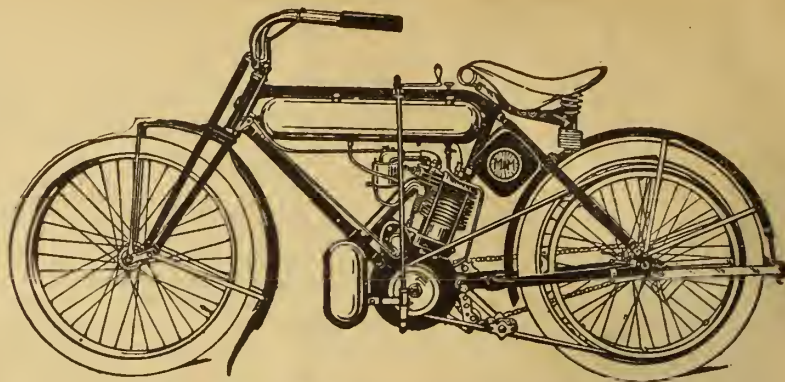
Wm. Galloway Co., 102 Galloway Sta., Waterloo, Iowa

Please send me by return mail absolutely FREE both your Dictionary of Cream Separator Knowledge and "Proof of the Pudding" booklet.

Name _____

Town _____

State _____ R. F. D. _____



M. M. MOTORCYCLES

We want to talk with every man who reads this advertisement who has to travel five or more miles a day.

You want to save time and money. We can prove to you that the M. M. is a profitable investment, both for business during the week and for pleasure Sundays.

Fitted with the M. M. side car, which carries an extra passenger, you double the enjoyment of motoring. The side car costs only \$75 extra.

AMERICAN MOTOR COMPANY

801 Center Street,

BROCKTON, MASS.

GILSON GOES LIKE SIXTY ENGINE

Gas
Gasoline
Alcohol

This is the cheapest gasoline engine because of its extreme simplicity and lasting service. It is so substantially built that it will still be doing perfect work when the average engine is in the scrap heap.

Fuel saving is a big item with the Gilson "Goes Like Sixty" Automatic gasoline control supplies fuel according to the work on hand. For heaviest work it costs only 1½ cents per hour per horse power. Light work, such as pumping or separating can be done at ½ cent per hour.

In every part Gilson "Goes Like Sixty" Engines are more substantially built than ordinary engines, giving cheaper, better service and outlasting them for years.

This is the only air cooled engine successful in operating binders and headers. Saved over \$2,000,000 worth of crops last year. The cooling system is patented. The Gilson "Goes Like Sixty" is the most reliable and economical engine for all-around work on the farm.

Write for Catalog Don't buy an Engine without getting this catalog. It gives lots of valuable information about engines, and describes our full line. 16 sizes, 1 H.P. to 27 H.P., water or air cooled. Write to-day.

GILSON MFG. CO.

972 Park St. St. Weshington, Wis



WEAR A

Wilson Weather Coat

30 days at our expense. Every farmer and automobile owner needs one. Wonderful new material. Absolutely wind and waterproof, contains no rubber, won't crack or tear. New auto collar and wind sleeve.

Sheds Water Like a Duck

Upon receipt of \$7.00 we will send coat, charges prepaid. Wear it 30 days—if not exactly as represented and perfectly satisfactory, money back promptly. We make these coats in our own big factory; sell direct.

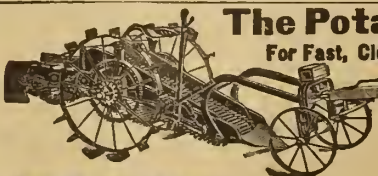
Colors, tan, gray and brown. State size; order now. Samples; illustrated folder FREE.

WILSON WEATHER COAT COMPANY
45 Downer Place, Aurora, Illinois.

Live Stock Pictures for Advertising

The importance of good pictures for use in live stock sale catalogs as well as in all live stock advertising, is well known. Our Art Department is one of the most completely equipped in the United States. Our corps of Artists make first class photographs, sketches, drawings or paintings. Our Engraving Plant furnishes engravings ready for printing. Prices, or any information cheerfully given on application. Address ART DEPARTMENT,

The Pierce Farm Weeklies :: Des Moines, Iowa.



The Potato Digger Dowden

For Fast, Clean Work is the

Simple, strong, always in order. Works in all soils, all depths, hillside and level. No cutting and none missed. Potatoes always clean, lying on top of ground. Works well in heavy tops.

DOWDEN MFG. COMPANY

1011 Elm Street, Prairie City, Ia., U.S.A.

Send for Free Catalogue



Kerosene

Better than Paint at 1-10 the Cost

A paint, a wood and iron preservative, a disinfectant. Its many uses make it worth many times the price. 50 gallons \$7.50. Satisfaction absolutely guaranteed. Write for FREE booklet and complete information. OMAHA GAS CO., 1836 S. 20th St., Omaha, Neb.



The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JUNE 9, 1910.

A STUDY OF SOIL MOISTURE

WATER is found in the upper strata of the soil in three conditions, namely: That which is absorbed by the soil particles from the water vapor of the air, called hygroscopic water; that which is held by surface tension, as more or less thickened films around the soil grains, and in the small pore spaces between the soil particles, called capillary water; that which is being drawn downward through the soil by the pull of gravity, called gravitational water.

Hygroscopic water is that which an absolutely dry soil will absorb when exposed to a saturated atmosphere. The amount of water absorbed depends in part upon the type of soil. The finer the soil particles the more water they will absorb. This water is held in the soil as thin films around the soil particles. It is of no value in furnishing water to agricultural plants.

Hygroscopic water may have beneficial action in bringing into solution some of the plant food held in the soil, on account of its close contact with the soil particles. From determinations that have been made in the laboratory, and from studies made under field conditions, we conclude that plants are not able to use this moisture for growth where less than 7 per cent is present in the soil.

Capillary water, or that which is held against gravity in the small pore spaces adhering as thickened films to the soil particles, is the source of supply to growing vegetation. This water is free to move in any direction in the soil. Capillary force can draw the water

slowly through the soil to other portions that may have become dry. Such water always moves from the wetter towards the drier soil. It moves through the soil in the same manner that oil moves along a lamp wick. As the oil is burned at the top of the wick the films of oil there become thinner and consequently exert a greater force and draw oil from the adjoining portion of the wick. This portion of the wick in turn draws oil from the next, and so on down, lifting the oil from the bowl of the lamp to the flame.

In the same way water is drawn slowly through the soil. If the surface soil begins to dry out, the films of water surrounding the soil particles there become thinner and exert a greater pull on the films around the next soil particles, taking away some of the water from these particles. This causes the next film to become thinner and consequently more active and it draws some of the water from the film around the next particle of soil and it in turn from the next. If evaporation is checked at the surface, the upward movement of water stops as soon as the soil particles near the surface have as much water as the neighboring particles. If there is no addition or loss of water for some time, the movement of the moisture in the soil stops. Disturb the equilibrium by addition or loss of water and movement starts again.

As a soil becomes more and more nearly saturated, we reach the point where gravity exerts a stronger pull than surface tension. The water then begins to move downward through the soil. Gravitational water tends to

move downward and connect with the ground water or sheet water below. When the ground water is at a great depth, as it is on most of the tablelands, the gravitational water seldom reaches it. Under such conditions the downward movement of the water continues until by distributing the water through a larger body of soil the force of gravity is finally overcome by the capillary power of the soil. When the water that is moving downward is not carried too far, it is brought back by capillary force to replace the water used above and is in turn used by the growing crop. This is exactly what takes place when a field is given a period of summer tillage to prepare it for growing a crop. While the land is under cultivation and not growing a crop, it accumulates water in the lower soil areas. After the crop is planted and begins to grow, it draws the moisture from the soil nearest to the roots and extends the root system into the deeper soil in search of moisture and plant food. If a dry period follows, the water stored in the lower areas of soil rises slowly by capillary action to supply the needs of the crop. The movement of water in soils is slow, however, and the height to which water may rise from lower levels to supply the needs of the crop is unknown. We feel positive from our investigations that the water content of the lower soils is affected by cultivation and cropping to at least fifteen feet, and that all water within the first six feet of the soil is within the reach of small grain crops, while alfalfa doubtless draws its water from a depth of fifteen or more feet in dry periods.

The Improvement of Farm Homes

SOME time since an article in the columns of this paper went somewhat into details with reference to the construction of a desirable farm home. It is a pleasing fact, as well as a matter of congratulation for our rural interests, that there is a growing feeling in favor of substantial farm improvement.

Quite recently a member of our editorial staff took pleasure in the inspection of a farm home that is a credit to the sound sense and home-loving instincts of the owner as well as a substantial testimonial to the prosperity-making character of the section of country in which it is located. The engraving which appears on this page is from a photograph. The house is owned by, and is the home residence of Mr. and Mrs. A. C. Thompson, and is located a few miles from Marshalltown, Iowa. The sentiment of these worthy people which led to the building of a home of this character is commendable. It stands upon the site of the less pretentious house that was home through the earlier period of endeavor, and amid the familiar home surroundings that go to make the pleasant home feeling of content without which no home is complete. As Mr. Thompson himself expressed it, he "could now enjoy life in a home as complete as those of the city, unhampered by the repression of the city's narrow confines," and remain, supreme in his own dominion, in that close communion with nature which is the farmer's great joy.

As is indicated in the picture, the Thompson home is not one of unusual size, but is built merely for the accommodation of an ordinary farm family. It has no gaudy ornamentation, but is neatly plain and substantial in all points of construction. It was erected at a cost slightly above \$6,000.

The foundation is solidly built of an excellent quality of stone, the main structure of gray

pressed brick and the roof of slate. It will therefore be seen that the house is one built to serve the purposes not only of its owner, but for coming generations as well. The in-

terior is substantially finished in oak and, as Mrs. Thompson expressed it, "is growing better and handsomer every day." This house is finished with all of those devices which the city

man describes as modern conveniences. It has hot and cold water, sewers, heat, and a gas plant which furnishes light. The water supply is provided by the windmill shown in the cut. An elevated cistern in the ground stands in the rear of the house and is not shown in the photograph. This house stands just far enough apart from the farm buildings to be convenient and yet separate from them. It has a handsome front lawn with just enough trees to provide suitable shade and not be too much of an obstruction of the view between the house and the road.

The building of a house of the character of that shown is not a matter of extravagance nor luxuriousness, but simply a plain, comfortable farm home, and one which, aside from being a matter of pride and satisfaction to its owner, gives added value to the farm and distributes its elevating and improving influences throughout the entire community in which it stands. It is really a fact that the building of the Thompson house infused into the neighborhood in which it stands a sentiment and feeling in favor of better homes which has been followed by the building of others closely approaching to its general merits.

The character of the farm homes of a section of country have a far-reaching influence. They are a true guide to the resources of a land as utilized by an intelligent husbandman. The traveler finds in them the foundation upon which he builds his estimates of a country and its inhabitants. They therefore form opinions and establish reputations. Farm prosperity, intelligent management and general



FARM HOME OF MR. AND MRS. A. C. THOMPSON, MARSHALL CO., IOWA.

(Continued on page 5.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second class matter

PUBLISHED EVERY THURSDAY

SUBSCRIPTION RATES—Single subscriptions, \$1 a year; ten copies one year, \$10, and an extra copy to get up of club. In clubs of fifty or more, 30 cents a year; in clubs of one hundred or more, 25 cents a year. Single subscription three years in advance, \$1.50; five years in advance, \$2.25; ten years in advance, \$4. Subscriptions price in Canada, \$1.50 a year. Remit by draft, registered letter, postoffice or express money order. In renewing subscription, use same name and initials as address on paper, or explain why you change. In changing your postoffice address, send your old address as well as the new. Errors in address or failure to receive paper within two weeks should be promptly reported to the publisher. Address all communications and business letters to

THE HOMESTEAD COMPANY,
Des Moines, Iowa.

FEDERAL SUPPORT FOR EDUCATION.

Nearly every bill introduced into congress is of more or less interest to farmers, but there is one pending at the present time that is of special importance to agricultural people because it calls for a direct appropriation for the advancement of what might be called vocational education. It is known as the Dolliver-Davis bill. This bill provides for the appropriation of \$1,000,000 annually for instruction in agricultural and home economics in district agricultural schools of secondary grade. In addition the bill calls for an appropriation of \$1,000,000 for the maintenance of a branch experiment station to be located at each school. Another \$5,000,000 appropriation is asked for, to be used by high schools for the maintenance of instruction in trades and industries and agriculture in public schools of secondary grade. If this bill passes, no appropriation will be made available until July 1, 1913. In the meantime the sum of \$1,000,000 is asked for, to be used by the state normal schools, the purpose of this being to train teachers so that these will be available when the secondary industrial schools are established. Under the terms of this bill the amount appropriated by the government must be duplicated by the individual states. On the basis of the sum appropriated if this bill goes through, together with an equal sum appropriated by the states, there could be established 400 agricultural high schools and 400 branch experiment stations in the United States. Possibly we cannot do better than to insert here the bill itself:

Section 1. That commencing with the fiscal year beginning July 1, 1913, there shall be appropriated, out of the money in the treasury not otherwise appropriated, to be paid as hereinafter provided to the respective states and territories and to the District of Columbia for the maintenance of instruction in agriculture and home economics in state district agricultural schools of secondary grade, as herein provided, the sum of four million dollars annually; for the maintenance of branch agricultural experiment stations, to be located at said agricultural secondary schools, to be administered as parts of the respective state experiment stations now established or which may hereafter be established in the respective states and territories in accordance with the Act of Congress approved March 2, 1887, the sum of \$1,000,000 annually; for the maintenance of instruction in the trades and industries and home economics and agriculture in public schools of secondary grade the sum of \$5,000,000 annually; and that commencing with the fiscal year beginning July 1, 1910, there is hereby appropriated out of any money in the treasury not otherwise appropriated, for the maintenance of instruction in agriculture, in trades, in industries, and in home economics in state and territorial normal schools the sum of \$1,000,000 annually.

Sec. 2. That the funds appropriated under this Act for education in public secondary schools and in state normal schools shall be allotted to the states and territories and the District of Columbia in proportion to their population, as shall be determined by the census of 1910, and that the funds for the district agricultural high schools and branch experiment stations shall be apportioned to the respective states and territories in proportion to the persons engaged in agricultural pursuits, as shall be shown by the census of 1910: Provided, That in each state and territory with less than three hundred thousand inhabitants there is hereby

appropriated for normal school instruction the additional sum of \$3,000, and that to each state and territory with less than one hundred thousand people engaged in agricultural pursuits there is hereby appropriated for district agricultural high schools the additional sum of \$5,000 annually and for branch experiment station work the additional sum of \$2,500 annually.

Sec. 3. That each state and territory, in order to secure the benefits of this act, shall accept its provisions and shall divide the state or territory into districts, providing in each district for one secondary agricultural school and a branch experiment station, the total number of such districts in a given state or territory to be not less than one for each fifteen counties nor more than one for each five counties and fraction of five counties; and shall enact laws providing for the allotment of the funds herein appropriated to the respective schools to which it may choose to allot funds under the provisions of this act, and shall provide for the administration of the use of the respective funds herein appropriated: Provided, that in states where separate schools are maintained for the colored race the allotment of money for the encouragement of instruction in the aforesaid vocations shall be divided in each state in proportion to the population of the two races, respectively, and whether the districts for agricultural secondary schools for the two races are co-terminous or not co-terminous their total number shall be determined by the number of

economics, and the trades and industries in state and territorial normal schools; and including shorter courses in the respective secondary schools for persons permanently engaged in or experienced in the agricultural, industrial, or home-making vocations, and continuation courses for persons, not necessarily graduated from elementary schools, who need opportunities offered by short and night vocational courses in agriculture, the industries and trades, and home making; and that all states, territories, and the District of Columbia accepting these funds shall provide other funds with which to pay the cost of providing the necessary lands and buildings and to pay the cost of instruction in such other and general studies as will complete well-rounded courses, the main purposes of which are to give vocational as well as general preparation for agriculture, the trades and industries, and home making suited to the needs of the respective sections and communities of the United States.

Sec. 6. That the sums hereby appropriated to the respective states and territories and the District of Columbia for the maintenance of instruction in agriculture, trades and industries, and home economics, and for branch agricultural experiment stations shall be annually paid, one-half on the first day of July of each year and one-half on the first day of January of each year, by the secretary of the treasury upon the requisition of the secretary of the interior, out of the treasury of the United States, to the treasurer or

year to make to the secretary of the interior, on blanks provided by him for that purpose, a statement of receipts and expenditures of money under this act during the preceding fiscal year.

Sec. 9. That on or before the first day of July in each year after this act becomes operative the secretary of the interior, under co-operation with the secretary of agriculture and with the secretary of commerce and labor, shall certify to the secretary of the treasury as to each state and territory and the District of Columbia whether it has complied with the provisions of this act and is entitled to receive its share of the allotments herein provided for schools and experiment stations under this act, and the amounts which it is entitled to receive. If the secretary of the interior shall withhold a certificate from any state, territory, or the District of Columbia for the whole or any part of its allotment, the facts and reasons therefor shall be reported to the president, and the amount involved shall be kept separately in the treasury as a special fund until the close of the next congress in order that the state, territory, or the District of Columbia may, if it shall so desire, appeal to congress from the determination of the secretary of the interior. If the next congress shall not direct such sum to be paid, it shall be covered into the treasury, and the secretary of the interior, in co-operation with the secretary of agriculture and the secretary of commerce and labor, is hereby charged with the proper administration of this law.

Sec. 10. That the secretary of the interior in co-operation with the secretary of agriculture and the secretary of commerce and labor, shall annually ascertain whether the schools receiving the benefits of this act are using the funds granted to them in accordance with the terms of this act, and make a report thereon to congress; and he shall also make an annual report to congress on the receipts and expenditures and on the work of the institutions to which allotments are made under this act, and also whether the appropriation of any state, territory, or the District of Columbia has been withheld, and if so, the reason therefor.

Sec. 11. That there is hereby appropriated, out of any money in the treasury not otherwise appropriated, the sum of \$20,000 annually, to be expended under the direction of the secretary of the interior, in paying the necessary expenses of administering this act, in co-operation with the secretary of agriculture, the secretary of commerce and labor, and the respective state, in paying the expenses of co-operating with the respective departments and states in developing the courses of study provided for in this act, and in paying the expenses of preparing the reports provided for in this act.

Sec. 12. That there is hereby appropriated, out of any money in the treasury not otherwise appropriated, the sum of \$20,000 annually, to be expended under the direction of the secretary of agriculture, acting in co-operation with the secretary of the interior and the respective states, in paying the necessary expenses of the administration of this act with reference to instruction and investigations in agriculture and home economics, as provided for in this act; and the secretary of agriculture is hereby authorized to give the schools and branch experiment stations designated in this act such advice and assistance as will best aid them in carrying out the provisions of this act in relation to instruction and research in agriculture and home economics.

Sec. 13. That there is hereby appropriated, out of any money in the treasury not otherwise appropriated, the sum of \$20,000 annually, to be expended under the secretary of commerce and labor, acting in co-operation with the secretary of the interior and the respective states, in paying the necessary expenses of the administration of this act with reference to instruction in the industries and trades, as provided for in this act; and the secretary of commerce and labor is hereby authorized to give the schools designated in this act such advice in carrying out the provisions of this act in relation to instruction in the industries and trades.

Sec. 14. That this act shall take effect immediately on its passage.

Those who are favorable to the enactment of this bill into a law should establish communication at once with their congressman. In the senate it is known as S-4675 and in the house as H. R.-20374.

The father of Senator Dolliver, of Iowa, says the National Monthly, was a Methodist circuit rider in the early '60s in northern West Virginia. One Sunday morning he was on his way to preach at one of his several appointments when he met a young fellow trudging along with a mattock on his shoulder. Mr. Dolliver, anxious to do good at any time, stopped his horse and said: "Good morning, my son, where are you going this fine day with a mattock on your shoulder?" The young fellow answered, "I am going over here to dig out a fine big groundhog. Where in thunder are you going?" I am out looking up some of the lost sheep of Israel," replied the minister. The young fellow's face lighted up and he exclaimed: "There's a big buck over here at Uncle Billy's, and I'll bet that's one of them."

June Creed

I believe in roses--a splashed garb of red and pink and white and yellow.

I believe in luscious strawberries, fresh from the creeping vines. I believe in the busy hum of the bees darting to and fro among the white clover blossoms. I believe in neat-kept lawns and well-trimmed shrubbery--fitting frames for farmers' homes. I believe in the garden. I believe in cultivation, knowing this, that but little after June is done man's share in the season's cropping is past. I believe in clover blossoms, "knee deep in June." I believe in the morning fragrance of the meadows, purple with the bloom of timothy--Nature's sweetest aroma. I believe in showers, in cloud-decked skies, in the lingering golden sunsets. I believe in the month of roses and graduates and brides. I believe in summer.

districts permissible under the provisions of this act: Provided, that in case the legislature of any state or territory has not been in session to comply with the terms of this act, the governor, acting for the state or territory, may accept the provisions of this act in its relation to state normal schools pending the convening of the legislature.

Sec. 4. That no state or territory shall be entitled to its allotment for branch experiment station work until its legislature shall, by law, have provided for the establishment of said branch experiment stations and shall have provided for the annual maintenance of such stations at least an equivalent sum to that appropriated annually to the state or territory under this act; and the sum paid to each state and territory for branch experiment stations shall be applied only to paying the necessary expenses of conducting, by such branch experiment stations, experiments bearing directly on the agricultural industry of the United States, having due regard for the varying conditions and needs of the respective states and territories.

Sec. 5. That the funds appropriated in this act for instruction shall be used only for distinctive studies in agriculture and home economics in agricultural secondary schools in the respective districts provided for in this act and for distinctive instruction in the trades and industries, home economics, and agriculture in separate secondary schools organized for this purpose and in separate units or courses in regular secondary schools and for distinctive normal courses in agriculture, home

other officer duly appointed by the governing boards or departments of the schools and experiment stations designated by state law to receive the same: Provided, that in any state there shall be not more than one state board or department thus designated for the agricultural secondary schools and branch experiment stations, not more than one state board or department for the state normal schools, and not more than one state board or department for public secondary schools.

Sec. 7. That if any portion of the moneys allotted under this act shall by any action or contingency be diminished or lost or misapplied it shall be replaced by said state, territory, or the District of Columbia, and until so replaced no subsequent appropriation shall be allotted or paid to such state, territory, or the District of Columbia: Provided, that no portion of said moneys shall be applied directly or indirectly under any pretense whatever to the purchase, erection, repair, or rental of any building or buildings, nor to the purchase or rental of lands.

Sec. 8. That it shall be the duty of each institution receiving funds under this act annually, on or before the first day of February, to make to the governor of the state or territory or to the commissioners of the District of Columbia in which it is located a full and detailed report of its operations including a statement of all receipts and expenditures, a copy of which shall be sent to the secretary of the interior, a copy to the secretary of agriculture, and a copy to the secretary of commerce and labor; and on or before the first day of September in each

STOCKING LAND MORE HEAVILY.

A ride through the great central West will convince any man that this region does not have enough live stock. Farm after farm will be passed where there will not be more than one "critter" for each ten acres of farm land. On such a basis production cannot possibly increase because it means that nearly everything that is raised on the farm is hauled away from it.

The possibility of land in regard to the number of head of animals that it may be made to maintain is shown in a recent issue of the London Live Stock Journal, under the title, "Heavy Stock on Small Area," and this we beg to quote:

At a time when much is being accomplished in the direction of increasing the number of small farms, it may be interesting to relate what a clever man can do in the way of keeping a large herd of stock on a small area. In the instance to which reference will be made fifty cows of the Short-horn breed, all of practically large size, were kept on some eighty acres at the time we paid a visit to the farm, which was within an easy distance of an important town with a large population. It should be mentioned at the outset that in a case of this kind the milk sold is delivered direct from the farm, and in consequence escapes the cost of conveyance by rail, hence it is possible to spend a larger sum of money in the purchase of artificial food. It has long been our contention that the average farm in this country is understocked, and that, in consequence, it is not provided with a sufficient quantity of manure. If the same capital were employed in such cases upon a farm of half the area with the same quantity of stock, not only would there be an increase in the yield of milk produced where a dairy herd is kept, but of the produce which is grown upon the land. It is the fault of our general system of farming that the soil is underfed; the deficiency of manure is not made up for by the purchase of an adequate quantity of artificials. Indeed, in many instances, it is impossible, however skilfully artificial manures may be employed, to make up for the deficiency of dung. This is the case on the clays and lighter soils, both of which are deficient in organic matter, which can only be obtained by constantly supplying dung or by the plowing in of green crops.

On the farm in question the quantity of manure produced, including litter, would in this case probably average ten tons per head per annum without the liquid, which possesses a high manurial value. There would thus be 500 tons, or thereabouts, of dung for distribution upon eighty acres of land, or more than six tons per acre per annum, which is quite twice the quantity usually employed on the average farm under the four-course system. There is, however, this important difference, that, owing to the necessity for purchasing a large quantity of artificial food, such as cake and meal, the quality of the manure was richer than is usually the case. The manure produced by the milking cow is much inferior to that produced by fattening stock, especially when kept in boxes, so that nothing is lost, but where the feeding is, as in this case, really high, and where the manure produced is managed carefully and carried constantly to the land to prevent loss by evaporation or by drainage, the soil is enriched in a much larger proportion than is generally the case upon a larger farm. If we suppose that every cow produced 650 gallons of milk it would mean a return of \$115 per head, and this income would permit not only of the purchase of an abundant supply of food, and especially of cake and corn, but an excellent profit to the farmer. Eighty acres of land which is chiefly grass will produce a much larger quantity of food for stock in such a case as this than it would upon the farm which is understocked and which is not in consequence so heavily manured.

The buildings were maintained in a highly-efficient state, well constructed, well arranged and equipped, and kept as clean as possible. A special apartment was reserved for the tools and smaller implements required on the land, and here everything was kept in its place and arranged in a manner which we have never seen exceeded, not to say equaled. It would surely be possible for the master or the men to enter this apartment in the dark and to place their hand upon any article which was needed. Great care was taken to retain the best milkers and to remove those of inferior quality, which were replaced as it became essential from time to time by milkers of a higher order.

We call special attention to the emphasis that is here placed on the amount of farmyard manure produced and its effect upon the land. In the case referred to the immediate profits from the stock are most satisfactory, but think of what this policy means as the years go by. Instead of becoming poorer the land becomes richer and if eighty acres will care for fifty cows in the beginning, it is not too much to expect that eventually land under that method of farming could be brought to that point where a single

acre would care for a cow and her calf. Farmers of the great central West need to imbibe more of this orthodox kind of teaching relating to soil fertility and its relation to live stock.

RAILROAD RATES UNCHANGED.

Acting on instructions of President Taft, Attorney-General Wickersham filed a complaint against twenty-five of the leading railroads of the grain belt and secured an injunction restraining them from making a general advance in interstate freight rates the first of June. The farmer is materially affected in the reduction by reason of the fact that agricultural implements, tiling, cement, harness, hides, wagons, cattle, cereal food products and general machinery are among the principal articles affected by the proposed advance.

The attorney-general in his complaint alleges that these twenty-five railroads (which include the transcontinental lines, together with most of the better known local lines) united to form what is known as the Western Trunk Line committee, said action being contrary to the Sherman anti-trust law. The manner in which these railroads acted as one, in restraint of trade and competition, after the organization was effected is set forth by the attorney-general in his complaint, as follows:

Each of the defendants is a member of the Western Trunk Line committee, composed of the freight traffic manager or general freight agents of each of the defendants. This committee meets once every month. Whenever any defendant contemplates a change in any of its rates, rules or regulation, the officer or official representing such defendant on said committee suggests such change to the chairman of the committee, who then docket the same for consideration and discussion at the next meeting of the freight committee. At that meeting the matter is brought up for consideration. If all agree the proposed change is made by all the roads, defendants herein. Unless there is unanimous agreement, the suggestion is rejected, and no road accepts the proposed change of rates.

The petition was presented to United States District Judge D. P. Dyer, at Hannibal, Mo., and a temporary injunction was immediately granted, the case being set for hearing on this injunction early in July. Until the case is settled the railroads cannot put the advance into effect. The proposed advance applied to approximately 60 per cent of the commodities carried in general freight, causing an increase of freight charges in amounts varying from 10 to 50 per cent of the rate heretofore charged. Practically three-fourths of the traffic moving between Chicago and Missouri river points was affected by the increase, which ranged from one to six cents per 100 pounds.

Had President Taft not taken prompt action and the government brought suit in court, the farmer would have been compelled to pay from 13 to 50 per cent more freight on his carload shipments of live stock and on his carload purchases of machinery and household furniture. The president has safeguarded the shipping interests and seen to it that no snap judgment is taken.

TWO LITTERS A YEAR.

Hogs are on a paying basis at the present time and we cannot see how prices can materially lower in the near future, for the simple reason that the hog supply the country over is short—it is below the normal. Whether sows should be bred for fall farrow or not depends on conditions of each particular farm. A Kansas subscriber, Mr. J. R. Ladlie, gives his opinion about raising fall litters, in the following communication:

With the present high price of hogs as an incentive more pigs must be raised. Now the question is, how? Certainly not by sacrificing quality to quantity. Really, I prefer May litters to all else, but the breeding of sows for May litters will make the following litter too late in the fall. A plan pursued by a successful hog man has been to allow gilts to bring a spring litter at about a year of age, and then fatten these sows for fall markets. But this plan has its objections, the most serious one being that you always have the uncertainties of young sows. A better plan, perhaps, in some respects, would be a combination of these plans, by having the old tried sows bring early litters and fall litters perhaps in September. Then breed the untried sows

for May litters. This gives the pigs better advantages. If any of the sows prove below the standard they may be fed for fall and winter markets. Besides, this plan (where some cows are milked) gives more milk for the different litters when they need it most. This, which might be called a three-litter plan, besides having the advantage of more dairy milk for each pig, also has the advantage of fewer pigs on the place at any one time, so that there is more room for them. Very few farms hereabouts have enough small pastures for two or three sows and no one attempts to have individual pastures. That pasture is a necessity in hog raising cannot be disputed. A hog without pasture is a hog without profit.

A good deal can be said in favor of this plan of having the old sows farrow early and the young sows late, and in turn using the old sows only to raise fall pigs, but, after all, the matter simmers itself down to the question of conditions on each farm as before stated. A great many persons really raise more hogs than they can properly care for—more than their equipment provides for. Unless there is plenty of pasture fenced so that hogs can have a free range it is quite a costly proposition to raise a large bunch of hogs. If in turn the old sows have a second litter when the first pigs are five or six months old it congests matters in great shape.

We believe in raising fall litters if this will not in any way interfere with the plan of getting good weights on the spring pigs, but we do not believe in raising fall litters if the spring pigs have to be starved in order to take care of those that come in the fall.

On the average quarter-section farm there would be more money in taking through in good shape forty or fifty spring pigs than there would be in raising half as many again and being obliged to economize on one bunch to take the other bunch through. For our own part we like to raise anywhere from one-third to one-half as many pigs in the fall as we do in the spring. In that case we have a bunch to turn off in February, March or April at good weights, while the fall pigs will finish out some time during the following summer and be a source of revenue at a time when there is nothing else on the farm to convert into cash. The fall pig is a much harder proposition to handle than the spring pig, and for that reason we believe that the average man is not fixed to handle more than from one-third to one-half as many fall pigs as he raises in the spring.

TILE DRAINAGE AS AN INVESTMENT.

The following communication has been received from an Illinois subscriber:

Few people realize or take advantage of the profit and comfort tile drainage affords. Fifteen years ago I took under consideration whether to continue a life insurance policy in an old-line company and hold its accrued benefits or invest such funds in developing the farm in the way of tile drainage. I chose the latter.

I have estimated that tile drainage will pay 10 per cent on the investment and return the principal in five years, if the work is properly done.

There are few farms even in rolling sections that cannot be improved by underdrainage. Farmers are very fortunate, indeed, who do not possess a catch basin for waste water to accumulate, a wet weather or other spring, a cat swamp, seepy hillside, sour, mucky draw, or one to twenty acres of practically waste land to bother cultivation or vex grazing stock.

The work of tiling can be done at any season of the year. The depth and distance apart, from thirty to 200 feet, will be determined by the nature of the soil. Quite often cutting the water from a springy slope or hillside may redeem one-fourth to five acres with a single drain.

On my place I drew a single line of fifty rods, cutting through two large catch basins that never matured grain crops, and, besides relieving the roadside of stagnant water, got prodigious returns from these fertile spots, easily representing \$100 in cash in less than five years. On heavy clay or tight, mucky soils I have found two and one-fourth to two and one-half feet deep enough; on slit or gravelly soils three feet will drain much wider.

Securing an outlet is a factor of considerable importance. It is better to go farther or through a deep hank than to use a doubtful place, as the future of the investment may depend on it.

If one expects to drain a large area the best plan is to run laterals into a larger main and make but one outlet. It is best never to unload a drain near a tree or allow willows or elder bushes to grow over the outlet. I even found a white ash tree matting up an outlet that led a good little spring from a hillside that formerly made a festering

hog of a quarter acre in a cultivated field.

If one is ordinarily robust he can do this job during spells that other work must wait.

We would like to add a little experience of our own to that of this subscriber. Six years ago we purchased a farm, part of which was not naturally drained, though there was plenty of fall to get the full beneficial effect of tile draining. The wet land constituted part of three forties and consequently it was often a difficult matter to cross the field at the very time it was necessary to put in the crop. Five hundred dollars put into tile and into labor has transformed the three forties into a very garden, and instead of being late in getting on the land in the spring we find that the soil dries out in the tiled spots almost a week earlier than it does on the high land. While we are not able to compute in dollars and cents the exact revenue which could be attributed to the putting in of these tiles, we believe that it would not be out of the way to say that the expenditure of the \$500 had increased the revenue of these three forties at least 500 bushels a year. Indeed, last year on account of the extremely wet weather it would run well up to 1,000 bushels. On this basis a man does not need to be a scholar to appreciate the fact that the original investment was a wise one.

We could give scores of instances, but propose to give only one more. A neighbor who owns only a small farm found that part of his land was so located that it produced very little crop on account of being wet. This was only a small patch of twenty acres, so in 1908 he put a six-inch tile up through the main draw and used four-inch laterals every 150 feet. As a result of that draining he produced a magnificent crop of corn in 1909 and part of it has been given over to a truck garden this year. It is absolutely in the very pink of condition to produce all kinds of vegetables. We have recited this instance to show how quickly and how effectively tile drains will transform a non-productive, foul soil into one that is sweet and productive.

IMPROVEMENT OF FARM HOMES.

(Continued from page 3.)

high moral standards are the logical attendants of the good farm home. The neatly kept lawn, the tidy surroundings, and the well-kept air tend to elevating influences of value beyond comprehension of ordinary mortals.

A Taste A Smile

And satisfaction to the last mouthful—

Post Toasties

There's pleasure in every package. A trial will show the fascinating flavour.

Served right from the package with cream or milk and sometimes fruit—fresh or stewed.

"The Memory Lingers"

Pkgs. 10c. and 15c.
Sold by Grocers.

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Battle Creek, Mich.

When writing mention this paper.

FARM FURROWS

Turned By a Practical Farmer

I have said before, and I repeat it again, that there is no weed that is so pernicious, so everlasting and so hardy as the so-called button or velvet-weed. I would consider that land thoroughly seeded to this weed is reduced in value 25 per cent as compared with what it would be if it were free from them.

Why is it that a hog always seems to eat more when mill feed is high in price? I have a few old sows that I will put up against anything else in the world in a consumption contest. One old granny can eat a twelve-quart pail of slop and at the end of the meal she pulls on an expression as though you ought to be fined for cruel and inhuman treatment in not feeding your live stock.

The nabob of the neighborhood used to be the farmer with a new buggy. Now the farmer with an automobile isn't so much. Flying machines will probably be the "mark of esteem" of the future. It will then be possible for the farmer to actually as well as literally "fly with the geese."

I used to be so anxious to work in the field that I would go out in the face of a shower, and often stay out until wet to the skin before concluding that it was going to rain. Since then I have learned to take better care of my health, which is something very difficult to buy when once lost.

Someone has said that the American cuts down trees six days in the week and fifty-two weeks in the year and when Arbor Day comes he sets out one lone tree. Most of us do know that the quality of lumber is getting poorer every year, a sure sign that the best has already been milled.

There should be twenty-five tiers of shingles on each side of the band, or fifty in all, as there are five shingles to the tier. The next time you see a bunch of shingles count the tiers on each side of the band, and it will be one on Furrows if you do not find only twenty-three on one side, or forty-eight tiers in all. This means you get 240 shingles, but pay for 250. What would the shingle makers say if a farmer should sell them 240 bushels of corn and collect pay for 250?

Cattle drift before the storm and only stop when the fence stops them. There they will stand, often with their heads between the wires. Light-

FEED CHILDREN.

On Properly Selected Food. It Pays Big Dividends.

If parents will give just a little intelligent thought to the feeding of their children the difference in the health of the little folks will pay, many times over, for the small trouble.

A mother writes saying: "Our children are all so much better and stronger than they ever were before we made a change in the character of food. We have quit using potatoes three times a day with coffee and so much meat."

"Now we give the little folks some fruit, either fresh, stewed, or canned, some Grape-Nuts with cream, occasionally some soft boiled eggs and some Postum for breakfast and supper. Then for dinner they have some meat and vegetables."

"It would be hard to realize the change in the children, they have grown so sturdy and strong, and we attribute this change to the food elements that, I understand, exist in Grape-Nuts and Postum."

"A short time ago my baby was teething and had a great deal of stomach and bowel trouble. Nothing seemed to agree with him until I tried Grape-Nuts softened and mixed with rich milk and he improved rapidly and got sturdy and well."

Read "The Road to Wellville," found in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

ning striking the fence will sometimes kill a dozen instantly, and the bolt may strike the fence a quarter of a mile away. We should all be more careful about grounding our fence wires. It is easily done and it doesn't take much material to do it, but too many of us put it off from time to time.

Less than twenty years ago an Oklahoma friend of mine entertained company in a small dug-out. The other day he entertained the same company in a modern farm house, a house that would not be out of place on any fashionable street of any city. It all came out of Oklahoma soil.

It's the rainy weather that hurts most the man who is trying to farm a few more acres than he should.

Turning horses out on grass, where they get no grain, is a poor way to build up strength during the wet weather when it is needed during the dry weather. Work horses need some grain, whether they work or not.

The daily papers are now so short on news that they print interviews with farmers on the crop outlook. As what the farmer produces is what keeps the country prosperous, I do not know but what such news is just as important as how many games of golf Taft played in one day or who was murdered for his money.

A good farmer frequently has poor fences, but did you ever know a poor farmer to have good fences, unless he got them with a farm recently purchased?

It has been said that it is impossible to build a clothesline too long to suit a woman. I have seen such lines hung in festoons on the dooryard trees, and a drive between the wrong trees on a dark night would mean a chuck under the chin that would keep a man from shaving for a month. I like to see the clotheslines away from the driveway.

When the weather is disagreeable we envy the shop worker, when the day is bright and all outside is health in big doses the shop worker envies us. It seems to me that the sight of four walls day in and day out would put me there for life, with the exception that the walls might have to be padded.

Not doing a thing until the sign is right often puts it off too long. I once knew a man who would not help his wife hoe in the garden because the sign for fishing always happened to be right when the garden needed hoeing. The sign for hoeing and not for fishing was never right.

During the last wet spell I made a cement walk to the cistern and another to the cave. The work did not take long and I expect the walks to be there long after I am through walking. A board walk is just as slippery, the boards are always coming loose and hitting you on the shins on dark nights and they rot in a very short time.

One of the hardest things for the average farmer to do is to keep sharp tools about the premises, such as spades, hoes, saws, chisels. I have found, since putting a work bench in the corner of a building and equipping it with a vise, it is much easier to sharpen everything that can be sharpened with a file. A little workshop or a work corner in some building should be a part of every farm.

April was colder than March, and, judging by the way the shivers ran up my back while milking the other morning, May will be recorded as colder than April. What June has in store for us is hard to say, but it will probably call for the flynets on the harness and a straw hat for the driver.

Barb wire has probably ruined or partly ruined enough horses to pay for woven wire enough to take the

place of the barb wire, but I have observed that where woven wire is used with success it must have a barb wire stretched along the top. Let a horse get the habit of eating over the fence and no smooth wire along the top will stop him.

According to Edison there is still another power yet to be discovered, one that will probably take the place of electricity. Let us hope it will not be a political power.

There is probably no post that will last as long for its size as the Osage orange, commonly called hedge, but anyone who has tried to keep staples in them knows how uncertain it is that the wires are where they should be. I must have used up a keg of staples trying to keep the wires on a ninety-acre pasture before using wire. Now, when I set a hedge post, I use a pair of good pliers and some soft No. 12 wire and every wire is there to stay.

It is a good idea to look over your insurance policies once in a while and see if any expire soon. The agents usually look after that and come around or send a notice beforehand, but sometimes they overlook the chance for a renewal of policy. A neighbor was looking over his policies the other day, to find that the insurance on his dwelling had expired nearly a year ago. An automobile could not have taken him to the agent quick enough to have made the renewal after the discovery was made.

What is so rare as a day in June when a fellow doesn't need to plow his corn?

The report that the fruit crop will be light this year reminds me that the currents will be electric light.

Now that the election in our neighborhood is over, I wonder if there will be as many friends of the farmers as there were (in the newspapers and at the meeting places) before election?

Talk about showers of blessing; out our way it has showered until the blessings have been pretty nearly all forgotten.

I would take a lot more interest in spring if it weren't that so many of the boys think they're in love this time of the year. And a boy who thinks he is in love is the most useless thing on earth.

There is considerable talk of making the dollar bills shorter. I'll admit I'm in favor of keeping them longer.

A good many people talk about keeping the boys and girls on the farm as though they had to be sentenced to stay there so many years. The time is pretty nearly here when the boys and girls will be doing everything they can to get to stay on the farm.

The last time I went to town I drove by some circus bills and I must say I saw then why they call the circus girls "bare-back riders."

I am now a stronger believer in the practice of testing seed corn than I ever was before. Where six kernels were tested from each ear and seed saved only from the ears that germinated strongly there has been no replanting, at least none has been called to my attention. On the other hand, where men took chances and guessed at the germinating quality of their corn there has been much replanting.

LOW RATES EAST ACCOUNT NATIONAL CONVENTIONS.

Special low rates via the Chicago & North Western Ry. on convenient dates during the summer months to Chicago, Milwaukee, Detroit, Saratoga Springs, Niagara Falls, Washington, New York City, Atlantic City, Boston and points on the Atlantic Seaboard, account National Conventions.

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PRICE—1 bu. \$3; 5 bu. at \$2.85; 10 bu. at \$2.75; 25 bu. at \$2.50; bags free.

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BARGAIN IN BEE SUPPLIES

For a limited time, five 1½ story, 8-frame, dove-tailed hives, \$7.50. Sections No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Write me your wants and I will quote you lowest prices. CHAS. OHLEFF, Postville, Iowa.

FOR SALE OR TRADE
10 H. P. Nichols & Shepard traction engine in No. 1 condition. Best offer takes it. Address ACKLEY BROS., Keswick, Iowa.

CURRENT EVENTS

THEODORE ROOSEVELT and Elihu Root, United States senator from New York and former secretary of state, met by appointment in London last week. They talked together in private for several hours. At the conclusion of the conference neither one would give out any details of the talk, but it is a foregone conclusion that the political situation was discussed at some length. Colonel Roosevelt has now conferred with Gifford Pinchot, Seth Bullock and Senator Root and should be in possession of both sides of the political controversy in this country. He still refuses to give out any statement or take any part in the factional fight, although the progressive republicans, since the return of Mr. Pinchot, have been jubilant and announce confidently that the ex-president will align himself with the progressives on his return. There have been no statements or developments to warrant their contention, however. Colonel Roosevelt is continuing to spend the time quietly in London, visiting and being visited by all the notables. One evening recently he took tea with Mrs. Humphrey Ward, who is one of England's greatest living novelists.

GLENN H. CURTISS made a remarkable airship flight from Albany to New York, a distance of 127 miles, in two hours and thirty minutes, thereby winning the prize of \$10,000 offered by the New York World for the first person successfully to perform this feat. Mr. Curtiss was accompanied by a special train, which traveled at the rate of a mile a minute, and which was unable to keep up with him for the greater part of the distance. He followed the winding course of the Hudson river for the most part, having his aeroplane equipped with a device so that if it should sink to the river it would be sustained on the water. This trip was made without any accidents and with only one stop, at a half-way point, to replenish the gasoline tank. Mr. Curtiss was promptly handed the \$10,000 and is being acclaimed one of the greatest devotees of flying of the present time. His experiments antedated those of the Wright brothers, but their feats have given them more widespread fame. Mr. Curtiss now bids fair to eclipse their popularity and notoriety.

AS AN outgrowth of the Pinchot-Ballinger controversy, Oscar Lawler, assistant attorney-general for the interior department, has been sued for libel by C. P. Connolly, a well-known magazine writer. Mr. Lawler testified before the congressional investigation committee that Mr. Connolly, who has written several articles for Collier's and other magazines denouncing Secretary Ballinger and his associates, was "a despicable scoundrel who stooped to any depth of degradation." Mr. Lawler further alleged that "a man named Connolly stood on the deck of the steamship Republic just before she went down, and trampled upon women and children in an attempt to get to the life boat." In this regard he made a serious mistake, for the man to whom he referred was James B. Connolly, a writer of sea tales, who claims that the charge has heretofore been made against him, but has been proved absolutely unfounded. C. P. Connolly demands \$20,000 damages of Mr. Lawler and announces that he will press the suit to conclusion. It is stated that other libel suits will be brought as an outgrowth of this unfortunate controversy which has already involved a score or more of government officials and prominent men.

GIFFORD PINCHOT, former chief forester in the government service, has returned from Europe where he conferred with Theodore Roosevelt. Mr. Pinchot refuses to discuss the conference, but his very apparent good nature and hope-

fulness of the prospects for conservatism give credence to the statement that Colonel Roosevelt is as much his friend as ever. The ex-president has accepted Mr. Pinchot's invitation to address the National Conservation Congress at St. Paul this fall. Had he lost any of his enthusiasm for the work or his sympathy for Mr. Pinchot personally, it is not likely that he would have accepted this invitation. Mr. Pinchot states that at the St. Paul meeting "we hope to accomplish some large results in getting the education of the people of this country increased in the subject of conservation." It is highly probable that President Taft will also address the meeting, as he has repeatedly stated that he is a consistent friend of conservatism and as heartily in favor of carrying on the work for the benefit of the future generations as are Colonel Roosevelt and Mr. Pinchot themselves.

AS A result of congress turning down the appropriation of \$25,000 for President Taft's traveling expenses, covering the president's last southern trip, an offer to make up the deficiency has been telegraphed to the president and to Speaker Cannon by the Augusta, Ga., Chamber of Commerce and Cotton Exchange. The southerners are indignant that their representatives in congress should have aided in withholding from the president the money which is justly due him in return for that expended in traveling about the country. They contend that it is poor hospitality to invite a man to visit them (as a number of the congressmen did, even including some who voted against the appropriation) and then make him pay his own expenses. President Taft is unable to accept the Georgia offer, but appreciates it nevertheless. He will pay the traveling deficiency out of his own pocket. The amount will be between \$7,000 and \$8,000.

THE six and nine-year-old sons of Jack Abernathy, the famous wolf catcher of Oklahoma, have just completed a horseback ride from their home state to Washington, D. C., unaccompanied by any older person. The trip was made by the lads for the purpose of participating in the homecoming welcome of Colonel Roosevelt, who is a great personal friend of their father. When the boys reached Washington they rode up and down Pennsylvania avenue for some time looking for a wagon yard where they might tie up the horses. Finding that Washington is not equipped with this Oklahoma convenience they finally availed themselves of the hospitality of a hotel and entrusted their mounts to a nearby livery stable. President Taft has received the boys and they are being given considerable credit for making such a long ride at such tender ages. They have proved the stuff the boys of Oklahoma, and for that matter the entire Southwest, are made of.

DECORATION day was observed throughout the country with the usual services and ceremonies. The number of veterans of the civil war is annually growing smaller, so that the parades do not have the size of recent years, but they are even more effective because of the worn condition of the veterans. President Taft reviewed the line in New York, standing bareheaded for over three hours while the veterans passed before him. The president did not deliver an address, but took every opportunity to pay homage and tribute to the men who saved the Union in the strenuous days of the civil war.

THE charge is admitted by a number of members of the Illinois legislature that United States Senator William Lorimer virtually bought his seat in the senate. A half dozen members have confessed



"Mother, guess you'll have to open the other package"

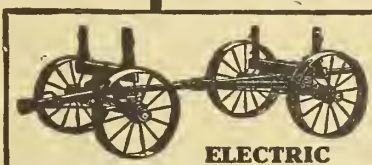
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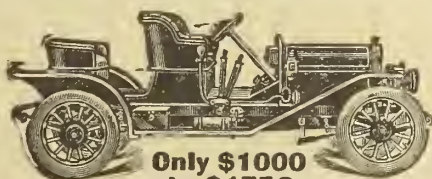
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1910 Black Crow 1910

that they were paid sums varying from \$1,000 to \$2,500 for their vote in the latter days of the long-sustained deadlock between Mr. Lorimer and former United States Senator Hopkins. The grand jury of Sangamon county is investigating and already several indictments have been returned against prominent Illinois politicians claimed to have been principals and go-betweens in the bribery. The affair has attracted so much attention that Senator Lorimer arose in the senate the other day to claim the question of personal privilege and indignantly denied that there was any scandal in connection with his elevation to the senate, alleging that the whole affair was brought about by the Chicago Tribune, in

which the bribery story first appeared, as a result of Senator Lorimer establishing a bank which would be a rival institution to one practically controlled by the Tribune's proprietor. The Tribune answers this statement by saying that the charge is simply the squeal of a rat caught in a trap and that it will prove that Senator Lorimer's elevation was due directly to the expenditure of large sums of money. It has been suggested that the senator resign, in which event Governor Deen would appoint his successor. The whole affair seems to be another argument in favor of the direct nomination of United States senators by the people themselves, in order to obviate deadlocks and bribery.

FARM BOY'S OPPORTUNITIES



President W. C. Brown, of the New York Central Railroad, Delivers a Remarkable Address on the Food Problem as it Confronts America, and More Particularly the Farmer, Today



WM. C. BROWN, president of the New York Central railroad lines, delivered a remarkable address on the subject, "The Farmer Boy. His Opportunity and His Duty," before the Page County Boys' Agricultural Club, at Clarinda, recently. President Brown was greeted by a large audience, composed mainly of boys from the farms of the county who have been organized by the county superintendent of schools, Miss Jessie Field, and who are taking an active interest in all agricultural matters.

President Brown was once a farm boy himself, and much to his delight was introduced to his large audience by a farm boy of the present time. President Brown has long been interested in the work which Miss Field is carrying on in Page county and has assisted her in many ways. Nothing could give him greater delight than to come to Iowa and address a gathering of farm boys.

President Brown worked on the farm until he was sixteen years old and then began his work for the railroad on the section with a shovel at \$1.50 per day. From this, by his own efforts, he has advanced until he holds one of the most responsible positions in the United States and receives a salary equal to that of President Taft. He is interested in farming; he owns and operates a farm in Page county; he has studied farm conditions all over the world; he believes in country boys and thinks they have a big chance in the world. He says that the poorest boy today has a better chance and more opportunities than he had. Among the things which President Brown said to his audience of farm boys is the following:

"More than in any other profession or vocation, the great business of agriculture is calling for young men and, in my opinion, no other business promises returns so sure or so great as intelligent, energetic work on the farm.

"We hear so much of the subject of the conservation of our national resources, and it is well that this important subject should have most careful consideration.

"I have thought, however, that about 90 per cent of the discussion of this important subject has been directed to about 10 per cent of our natural resources.

"Husband our coal as we will, economize in its use to the last limit, but the day will come when the last ton will be mined, and nothing will remain but the empty holes in the ground.

"The same is true of all the products of our mines, but the fertility of the soil must not only be maintained, but must be constantly augmented, if this nation or any other nation on the face of the earth is to continue to exist.

"In the issue of the Saturday Evening Post of May 7th is an extremely interesting article from the pen of the Hon. F. D. Coburn, commissioner of agriculture for the state of Kansas, and one of the most able, progressive men in the country. I quote the following from this article: 'Is wheat bread to become a luxury rather than a staple? Jas. J. Hill says that at the present rate of increase in population, the ratio of production remaining the same, within twenty years a large part of the people will go to bed supperless.' The Northwestern Miller, one of the high flour and milling authorities, in its issue of March 23d, said: 'The problem of giving the masses bread is becoming the question of the hour; beside it all others are insignificant.'

"These are not idle remarks, but the result of close observation and study by the shrewdest of the shrewd, and they present the most serious economic problem facing the American as well as the European public. The question of trusts, the graft scandals and other like issues will solve themselves, and though the evils incident to them may not be checked at once, only a comparatively small number of persons will be directly affected.

"But the question of bread supply confronts every individual in every civilized country. No one community, but the whole world has to meet it. A bread shortage is coming, if we continue to grow in population at our present rate, unless something is done to increase production.

"For this two methods at once suggest themselves, but one of them—sowing a larger area—is im-

practicable, for the government land office reports, and statements of Secretary Wilson, of the department of agriculture, show that the most of the available land which may be devoted to the cereals is already utilized, and that there can be little or no increase in wheat acreage. The limit has been pretty nearly reached. This leaves but one solution, which is to make every acre cultivated give a larger yield.

"In the quiet and tranquillity of southwestern Iowa, these predictions do not convey the dangerous significance they do to those who have looked into the dark, sinister faces of the long file of men who make up the hundreds forming the bread lines which gather nightly in the streets of New York, and which in times of depression are swelled to thousands.

"Repressed by the strong hands of thousands of magnificently organized and perfectly drilled police, under the surveillance of hundreds of secret service men, who, unknown and unsuspected, keep in constant touch and association with them; controlled by at least a fairly adequate supply of food—in the day of real and extended shortage of food supply, this smoldering volcano of violence and destruction would burst forth with a fury, a besom of destruction which would for a time be irresistible.

"Herein, therefore, lies our anxious solicitude for better, more intelligent, more scientific fertilization and cultivation of the soil.

"In the solution of this great problem lies at once the farmer's opportunity for broadened prosperity and his duty to do all in his power to avert a national calamity, for in his hands just now more than at any period in our history lie the vital issues of national life or death.

"These are the conditions which confront us! What has produced them? What can be done to change them? We have been for a century and a half, recklessly exploiting the natural resources of a continent. The great forests have been regarded as an incumbrance. I have seen, in this prairie state of Iowa, acres of maple, white oak and hickory timber cut down, dragged into great

piles and burned. Our agriculture has been a process of half-farming, until the land began to show indications of exhaustion, and then moving on and taking up new land farther west. Now the land farther west to be had for the asking is gone. Population is increasing, every added mouth demands to be fed, and, as the hungry mouths multiply, there can be but one of two results—an increase per acre in the product of the farm, or a continued and alarming increase in the cost of food, ending in national calamity.

"There is no soil or climate that is naturally superior to that of the United States, and no nation on the earth can produce a larger crop per acre than this country if our soil is intelligently tilled.

"The state of Iowa which, in the allotted life of man, has grown from a wilderness to a great agricultural and industrial commonwealth, has a soil and climate that cannot be surpassed for fertility or salubrity by any other state in the Union.

"Notwithstanding these natural advantages, the farms of Iowa produce an annual yield of only thirty-one bushels of corn per acre. We raise seventeen bushels of wheat per acre, and Germany produces twenty-eight and the United Kingdom thirty-two. In oats, the yield of Iowa is twenty-seven bushels per acre, while the United Kingdom averages forty-five bushels to the acre, Germany forty-nine, the Netherlands fifty-two.

"The increased value of corn, wheat, oats, rye and barley produced in the year 1909, in the state of Iowa alone, provided the average yield per acre of the same crops in Germany had been raised, and assuming a production of fifty bushels of corn to the acre, would have amounted to one hundred and ten million dollars. For the country as a whole this increased value for last year would have amounted to no less than three and one-quarter billion dollars.

"I want to quote once more from the article of Commissioner Coburn, and I am glad that he has the courage to say in terse, emphatic terms what he thinks of conditions in Kansas: 'Kansas land planted in wheat produces an average from thirteen to fifteen bushels per acre.

Men write of the shame of the cities, and of the crimes of society, but this is the crime of agriculture. The average yield per acre is a disgrace. The farmers are not seizing the opportunities among which they are thrust; they are not doing justice to the land and climate with which a generous Creator has endowed them. When they realize how much more per acre can be produced by only a little additional labor and at no great additional expense, and when they meet the soil and climate half way, then the farmers may be truly proud of their achievements.'

"No more accurate measure of fundamental prosperity can be found than that an individual or a nation produces and sells more than they buy; that the aggregate of all transactions results in bringing money in, rather than paying money out.

"If you bring in a load of hogs and sell them for \$100, and you go to the store and buy \$75 worth of goods, you take home the goods and \$25 of the money. But if you sell the hogs for \$100 and spend \$125 for goods, you go home having spent all you got for the hogs and \$25 more. As a result of the whole transaction, you have \$25 less money than you had before.

"So it is with the nation. If we sell to other nations more than we buy from them, they pay us the difference in money, and we call it the balance of trade in our favor.

"For thirty-five years this country has every year sold more than we have bought, and each year the other nations have paid us millions of dollars in money, representing this balance of trade.

"A comparison shows that our exports of corn, wheat, rye, oats, barley, flour, etc., in 1899, exceeded those of 1909 by 250 per cent.

"Our exports of beef and pork and their products for 1899 exceeded those of 1909 by 80 per cent.

"Coincident with this tremendous falling off in our exports of the products of the nation's farms, this country imported 19,000,000 bushels of potatoes, beans and dried peas, and during the latter



PRESIDENT WM. C. BROWN.

The president of the New York Central railroad lines, introduced to the boys' agricultural club and farmers of Page county, Iowa, by Floyd Hurdle, a fourteen-year-old farm boy.

(Continued on page 14.)

OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

RIGHTS AND DUTIES OF PARTNERS.

A partnership is a voluntary contract between two or more persons, joining together their money, goods, labor and skill, or any or all of these, under an understanding that there shall be a communion of profits between them, and for the purpose of carrying a lawful trade, business or adventure. The contract may be either oral or written, but it is always desirable to have the contract of partnership put in writing and signed by the parties, and that each of them should have a copy thereof. This will in many cases avoid dissensions and misunderstanding. Where no agreement is made to the contrary, the law presumes that all the members of a firm are entitled to share equally in the profits of the partnership business. A partnership may be formed in which the partners have a right to equal shares in the profits, although they may contribute to the fund or stock in unequal proportions. One, for example, may contribute money or goods, and the other labor and skill. One may own the buildings and be possessed of the good will of the business, and the other may have other qualities which compensate for this. When there are no specific articles of agreement, except only the forming of a partnership, the law implies an obligation among partners to use the joint property for the benefit of all, whose property it is, and to exercise the utmost good faith towards each other in the partnership business. It is indispensable to insure a successful business that partners should be able to repose in each other a mutual confidence. Every species of fraud, therefore, is an offense against the partnership relation, and unlawful. It is the duty of partners to devote themselves to the interests of the firm. No partner has a right to engage in any business which must necessarily deprive the partnership of a portion of his skill, industry or capital, which he is bound to devote to the partnership. When there is no express agreement otherwise, a man may engage in as many partnerships as he chooses, provided he does not violate the above principle. It is not unusual that one of the members of a firm should be engaged in other enterprises. All that is required in such a case is that he shall engage in no business which makes it for his interest to deal unjustly with his partners; that he shall act in good faith towards his associates and not seek to make the common good subservient to his own personal advantage.

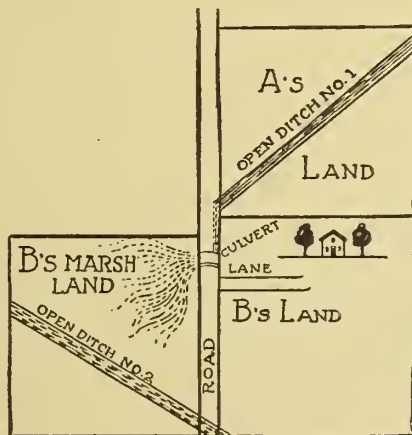
Where there is no special agreement to that effect, partners are not entitled to charge each other for their services in the management of the business and the law will not undertake to settle between them, their various and unequal services. An attempt to do so would be impracticable, if not impossible. One man may possess advantages over his partner in one respect, which may be made up to the latter in the possession of some quality in which the former is deficient. One may have an established reputation in the neighborhood for honesty and fair dealing; he may have numerous and powerful friends; he may enjoy in a peculiar degree, the confidence of his fellow citizens; he may have the qualities of a superior business man in directing the general management of the concern, and his partner may be destitute of some of these advantages, and nevertheless be a valuable partner for his activity in business, his knowledge and skill as a machinist, accountant or salesman. All these things are presumably taken into account by the parties when they form the partnership. As between themselves, one of the partners may own all the property. Upon the death of a partner, the co-

partnership is thereby dissolved, except that the partnership has a limited continuance for the purpose of selling and winding up its affairs, and the surviving partner has a right to all property and assets of the firm, until its affairs are settled, and it is his duty to settle all the obligations of, and collect all obligations due the firm, in the name of the surviving partner, and at the expense of the firm. As a general rule, when the partnership is dissolved by the death of a partner the surviving partner is not entitled to extra compensation for services rendered by him in winding up the affairs of the partnership unless there be an agreement to that effect. The winding up or settling of the partnership affairs consists as a general thing in selling the partnership property, receiving moneys due the firm, paying the firm debts and the advances of the partners, returning the capital contributed by each partner and dividing the profits.

LAW QUESTIONS CONSIDERED.

DAMAGE BY DRAINAGE WATER.

A Subscriber, New Sharon, Iowa.—The accompanying diagram represents the adjoining lands of A and B, with the road, culvert, lane, open ditches, etc. The open ditch No. 1 on A's land gathers surface water and discharges the same in the road, whence it runs a short distance to a culvert, and through that upon the low land which is the



richest ground on B's land, doing it much injury, finally reaching open ditch No. 2 on B's land. (1) Can B compel the road authorities to put in a large tile drain along the road to keep the water off his low ground, and conduct it to the open ditch No. 2? (2) Can B compel the road authorities to tile the water past his lane, and thence by open ditch along the road to ditch No. 2?

Answer.—We do not think B can compel the road authorities to take either of the courses suggested. A has no legal right to discharge the surface water from his open ditch in such a manner as to overflow B's land, although it first passes along the road and through a culvert. Therefore B

has a cause of action against A rather than against the road authorities. He should put his case in the hands of a lawyer.

QUIETING TITLE—MORTGAGE.

An Iowa Subscriber.—My father died twenty-six years ago, owning a farm of 160 acres with a mortgage on it. He left a will requesting all his debts to be paid as soon as possible, and willed the farm to mother during her life time and at her death to the three youngest children, providing that they should pay the five older children \$100 each—\$500 in all. The will was duly approved and probated, and mother died ten years ago. We, the three children, have complied with the will and paid off the mortgage, and paid taxes on the land ever since, but the mortgage was not canceled of record. We now find that the will misdescribes the land, giving it in the wrong section, but stating it as "the farm on which I live." We requested the other heirs to give us quit claim deeds, but some of them refuse to do so. (1) Have said other heirs any lawful claim to the land? (2) How will we proceed to quiet the title to the farm? (3) How long will it take for this paid mortgage to become outlawed?

Answer.—(1) The other heirs have no lawful claim to the property. They should willingly give quit claim deeds thereto. (2) The three children to whom the farm was willed will have to engage a lawyer to bring a suit in the district court to quiet the title to the land. On account of the misdescription in the will there is no other way to settle the title and make it appear properly on the records. In such a suit the mortgage matter could also be adjusted so as to show it to be canceled and satisfied. (3) A mortgage becomes outlawed in Iowa in ten years after the debt is due.

SETTLING ESTATE OUT OF COURT.

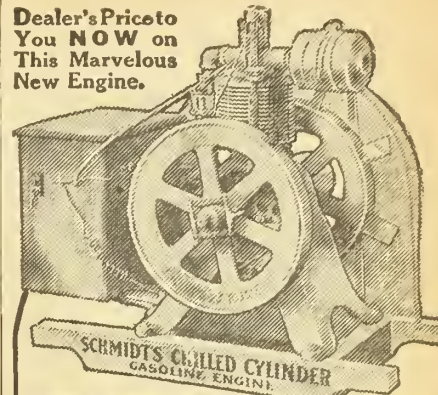
Mr. Theo. Krause, Spencer, Iowa.—A willed his farm to his wife and children, share and share alike. He died in 1887. His will was probated and the widow was appointed administratrix, but did nothing as such administratrix. The farm was sold in 1901 and the widow and all the heirs joined in signing the deed to the purchaser. At the same time one of the heirs stated in an affidavit that there had been no administration of the estate, and that they had settled it among themselves, and that all claims and debts had been paid, and they were all of age. Are such proceedings lawful, and is the title to the farm good?

Answer.—If all claims and debts against A's estate were in fact paid, the proceedings mentioned were perfectly lawful, and the title to the land is good.

MARRIED WOMAN'S RIGHTS.

A Nebraska Subscriber.—A and B were married in 1892. A was a laborer and had \$800. B was a working girl and had cattle and horses to the value of \$300. Both parties had well-to-do parents. A and B were good workers and made a good living and raised a family. B worked in the garden and raised calves and chickens and kept boarders, and never received any money earned by these things, nor any words of sympathy or encouragement. In 1902, her father died and she inherited a quarter section of land worth \$5,000, and together they had enough to buy an adjoining quarter by borrowing

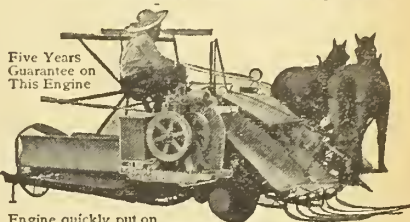
Dealer's Price to You NOW on This Marvelous New Engine.



FREE Schmidt's Chilled Cylinder Engine

New offer on gasoline engines. Absolute free trial on this marvelous 3-h. p. chilled cylinder gasoline engine. Direct from the engine works to you. No dealer's profit. Five-year guarantee by the engine works. Perfect engine for pumping, hoisting, working on a harvester and running every piece of machinery on a farm or in a shop. Lightest, most compact, simplest; the only 3-h. p. gasoline engine with chilled cylinder. Write for the great introductory offer.

Send No Money. Just send your name and address. See for yourself. The newest achievement in engines. The perfect engine at last. Use it ten days free. Send it back at our expense if you don't want it. This engine is perfect or we wouldn't make this offer. Dealer's price and terms to you for a limited time. **Easy Monthly Payments.**



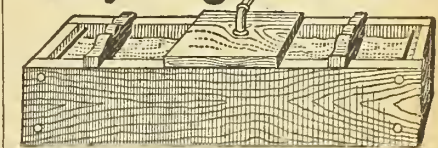
Engine quickly put on any harvester. A wrench is all you need.

Starts Easy—at Any Speed—Can't Jerk

Does all any 3-h.p. engine will do and more—everything. You will be astonished when you read our catalogs. This engine will surprise you, the terms and prices will amaze you. **Our new offer on this marvelous engine is amazing.** Just send your name and get it free. Send now. Do it to-day.

SCHMIDT BROS. CO. ENG. WKS., DEPT. 378X, DAVENPORT, IA.

"Only" Hog Waterer



THE ONLY does the business both winter and summer. No clogging, no overflow, no bother. We offer you a free trial. Write for booklet, "How to Raise 1,000 Hogs a Year."

ONLY MFG. COMPANY, Lock Box 67, Hawarden, Iowa.

WILLIAM O'RILEY Dealer in Black Walnut Trees and Logs.

Route 2, Canton, Illinois. WILL pay spot cash for Black Walnut Logs twelve inches and over. Reference—Second National Bank, Monmouth, Illinois.

BINDER TWINE

Farmers wanted as agents, August Post, Moulton, Ia.

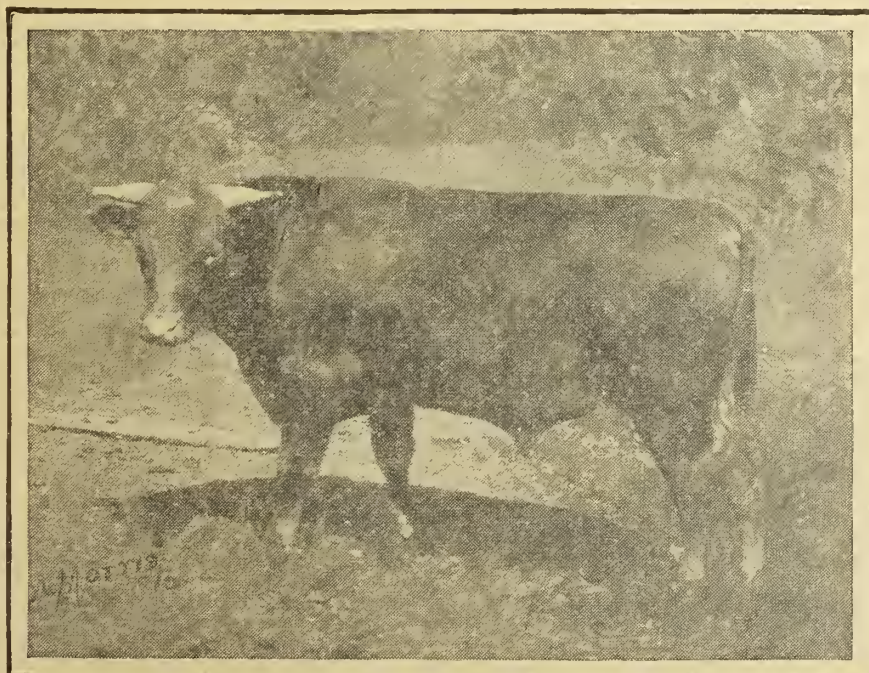
\$1,700. A's father died in 1904, and A got \$30 from the estate. (1) Is there any way by which B can come into possession of what belongs to her? (2) If A should die first, what portion of the property would B get under the laws of Nebraska?

Answer.—The quarter section of land which B inherited from her father belongs to her as her separate property and she has a right under the laws of Nebraska to manage, control, lease or sell it without the consent of her husband, and she is by law entitled to all rents and profits from it and all proceeds from it if she sells it. This ought to be satisfactory to her. If her husband refuses to recognize these rights, she will have to engage a lawyer to enforce them by law. (2) A widow's allowance from her husband's personal property, and one-third of his real estate during her lifetime.

MOVABLE HOG HOUSES NOT FIXTURES.

A Subscriber, Winterset, Iowa.—Three years ago I sold my farm to a neighbor and there were on it at the time four movable hog houses, that is, small houses that could be hauled from one yard or field to another with an ordinary farm team. I did not reserve the hog houses and they went with the farm. Last year I bought the farm back and moved to it from Kansas about the first of March, and found the farm vacated and the four hog houses had been moved to the other man's farm. Had he any right to remove them?

Answer.—It is a pretty close question, but our opinion is that the hog houses were not what the law con-



SHORT-HORN BULL IN THE BINFORD SALE.

The engraving herewith is from a photograph of the Short-horn bull, Monarch, that has been cataloged for the public sale of Messrs. Jesse Binford & Sons, which takes place at Liscomb, Iowa, June 21st. Monarch is a son of Dainty Scotchman 6th and his dam was Rosabel 2d by Nokomis. He has a number of most excellent Scotch-top crosses. The picture indicates what his individual points of merit may be, and they are good. He is straight in his lines, well formed and with a massive, masculine character that must be a good argument in his behalf. Catalogs of this sale may be had by addressing Messrs. Jesse Binford & Sons, Liscomb, Iowa. See page 29.

siders fixtures to the land and that when you sold the farm, you had the right to remove the houses as personal property, and not fixtures; but you did not do so, and allowed them to go with the farm. When you bought the farm back, the seller had a right to consider the hog houses personal property, and remove them unless there was some understanding to the contrary.

TRACTION ENGINES—BRIDGES.

A Subscriber, Moravia, Iowa.—Has the law which required two-inch planks a foot wide, to be placed on bridges and culverts over which to move steam engines on the public road, been repealed, and if so, who proposed the repeal and who voted for it?

Answer.—The section of law to which you refer is 1571. This section was repealed by the general assembly in 1909, and a substitute enacted therefor, which, among other things, provides that "Until the first day of November, 1910, no traction engine shall cross any bridge, crossing or culvert in the public highway or street, unless sound, strong planks not less than one foot wide and two inches thick, be placed and kept continuously under the wheels. No traction engine having mud lugs or ice spurs attached to its wheels shall be moved over any bridge, culvert or street crossing." To ascertain who proposed the change and who voted for it would require a search of the House and Senate Journals of the 33d General Assembly.

WIDOW'S SHARE—PARTNERSHIP.

A Subscriber, Licking, Mo.—(1) A and B were brothers and operated a stock ranch together, in Montana. A died lately leaving a widow, but no children. His father, two brothers and three sisters survive him. Who is entitled to his property according to the laws of Montana? (2) B bought a bunch of sheep two years ago and the seller holds a lien on them in B's name only. A's name not being mentioned in the transaction. Can B hold the sheep as his individual property?

Answer.—(1) A's widow is entitled to dower in the land owned by her husband, and as heir she is entitled to one-half of his estate. The father of A is entitled to one-half of A's estate subject to the widow's dower right. (2) If B bought the sheep as individual property they remain so still, but if they were bought with the understanding between A and B that they were to be partnership property, then they belong to the partnership.

SELLING PRESERVED EGGS.

A Subscriber, Jefferson, Iowa.—I wish to preserve eggs during the summer months when they are fresh and cheap, and market them in winter when eggs are scarce, and the price high. Is there any law in Iowa to prevent such an enterprise, or regulating it?

Answer.—There is no law in Iowa prohibiting such an enterprise or regulating it specifically, but on general principles it would be unlawful to represent such eggs to be what they are not; that is, to represent them as not having been preserved, but fresh eggs newly laid, in selling them. Such representation would of course be a fraud on the purchaser, but selling them for what they are would not be unlawful.

INSURANCE POLICY—BURIAL—INHERITANCE.

A Subscriber, Wyoming, Ill.—(1) I joined a benefit society three years ago, giving my age younger than I was. I then guessed at my age as nearly as I knew, believing the record of my birth had been destroyed. I left home when thirteen years old, and have recently learned through my only sister that there is a record. I answered the insurance company in good faith when I was examined. I am informed that every answer must be exactly truthful. Is my benefit policy good? (2) My mother's remains are buried in one of the Chicago cemeteries, and I have lost the number of the lot. Can I get the number, and to whom should I apply therefor? (3) A and B are husband and wife. If the husband should die without making a will, would his brothers and sister inherit a portion of his property?

Answer.—(1) It is difficult to say, without inspecting your benefit policy, whether it is good or not, but on general principles we think it is good, as there was no intentional misrepresentation on your part. We would advise that you take the matter up with the company, and state all the facts to it, and have the matter adjusted; perhaps it would issue a new policy, putting the matter beyond all question. (2) All cemeteries keep a record of burials. Apply to the manager or superintendent of the cemetery where your mother is buried. (3) If he leaves descendants his brothers and sister would not be entitled to any of his

estate. If he leaves no descendants they would be entitled to one-half of his real estate if his parents are dead.

CONTEST OF WILL.

A Subscriber, Rutland, Ill.—A man eighty years old, and in weak mind, died leaving an estate in Illinois of about \$60,000. He had a wife and four children all of age, and he willed all of his estate to his wife, to do as she might choose with it. He did not mention any of his children in the will. (1) Is the will valid, or can it be broken? (2) Can the heirs compel the mother to give them deeds for their share of the property, she to retain the income from it as long as she lives? (3) If the mother should give one of the heirs \$2,000 and take a receipt for the same, would that impair that child's right to share in the property if the will should be set aside? (4) What steps are necessary to contest a will?

Answer.—(1) If the man was of sound mind, and not under undue influence when he made the will, it is a valid will and cannot be set aside. (2) They cannot. (3) Not unless there was something in the receipt showing that the child surrendered or relinquished its right. (4) To set aside a will, a bill in chancery must be filed within one year after the probate of the will, by the party seeking to set it aside, and the case is then tried by a jury in the circuit court.

GRAZING HORSES ON ROAD—TRESPASS.

A Subscriber, Diller, Neb.—I have a pasture fenced with barbed wire, adjoining the public road. My neighbor turns his horses into the road to graze, and I am afraid to turn my horses into my pasture, because my neighbor's horses and mine will fight across the fence and my horses are liable to be ruined by the barb wire. (1) Can I compel my neighbor to keep his horses off the road? (2) In case my horses should be injured in the way mentioned, could I recover damages from my neighbor?

Answer.—(1) If the line of your land

is in the middle of the road, you are the owner in fee of the half of the road next to your fence, and are entitled to the grass and herbage that grow upon it, and no one has a right to graze stock upon it except yourself, and your neighbor commits trespass when he grazes his horses there, and you can sue him and recover damages. (2) If your horses should be injured because of your neighbor's horses being wrongfully on your side of the road, you could recover damages.

HOMESTEAD IN CANADA.

A Canadian Subscriber.—(1) When a citizen of the United States files on a homestead in Canada, does he swear away or renounce his right of citizenship in the United States? (2) After a citizen of the United States has filed on a homestead in Canada, can he lawfully vote in the United States, before moving to Canada and occupying his homestead?

Answer.—(1) He does not. (2) A citizen of the United States, having a right to vote where he lives, does not lose such right, until he actually changes his place of residence by moving away, although he may have filed on a homestead in Canada. The law of Canada allows a homesteader six months after making his entry, to settle upon and occupy his homestead.

VETERINARY DIPLOMA—CORRESPONDENCE SCHOOL.

Mr. Chas. W. Ives, New Boston, Ill.—Can a man take a course of veterinary medicine and surgery in a correspondence school, and after passing examination and getting his diploma from such school, practice in Illinois the same as though he were a graduate of a veterinary college? (2) Does the law in every state require persons desiring to practice veterinary medicine and surgery, to pass a state examination the same as in Illinois?

Answer.—(1) Only graduates of veterinary colleges which are recognized

by the state board of veterinary examiners, can be admitted to practice in Illinois on the diplomas they hold. All other persons must pass a satisfactory examination by said board before they can obtain license to practice. The holder of a diploma from a correspondence school would most likely have to stand an examination by the board before he could get a license, and certainly so, if the school is not recognized by the board. The state board of veterinary examiners have a legal right to require an applicant to pass an examination even though he holds a diploma from a correspondence school. (2) It would require an examination of all the laws on the subject in forty-four states, to enable us to answer your second question, and life is so distressingly short—but we will say that in Minnesota, Wisconsin, Iowa, Kansas and Missouri, the law requires applicants who wish to practice veterinary medicine and surgery, to pass a satisfactory examination by the state board of veterinary examiners.

STOPPING PAYMENT OF CHECK.

An Iowa Subscriber.—I gave a check for a manure spreader, and when I found it was not all there I stopped payment on the check. I went to the dealer a week or so later, to get the machine, and he said it would cost me \$2.50 more, so I told him to give back my check and keep the machine, and he said he had torn up the check. Can I compel the dealer to put up a bond to secure me against the check if it should turn up in someone's hands later on?

Answer.—You cannot compel the dealer to give bond against the check. It is probably all right, and will never be presented for payment.

Ask your neighbor to subscribe for The Homestead.

Get a Hay Loader and Side-delivery Rake Made By Hay-Tool Specialists.

This is an age of specialization—the Great Dain line of money-making, money-saving hay tools set the standards of all others because they are made in a hay tool factory by hay tool specialists who have made nothing but hay tools for over a quarter of a century. The Dain Hay Loader and Side Delivery Rake enable the farmer to meet a vital problem—the scarcity of farm help. Either tool is the leader in its kind, and together they make the greatest of all hay harvesting combinations for the man who removes his hay from the field.

The Great Dain Hay Loader

Requires no one on the load but the driver. It pushes the hay well forward, where it can be easily handled. By dynamometer test, this loader has proven to be the lightest draft loader on the market. The ground is practically raked twice by the Dain, as every revolution of the rake overlaps the one preceding. It's the simplest loader made—no long crooked crank shaft, no drum cylinder, no return carrier, no twisted chains, no cams, or superfluous freak mechanism to get out of keiter and cause delay. Gently removes hay from swath or windrow. Takes the hay from low places—passes gently over bumps and other obstructions and reaches into every hollow. These are a few of the reasons why there are more Dain Hay Loaders sold every year than any other kind.

Special Features

No long crooked crank shaft; is operated by swinging pitmans. Patented hinged board at bottom to turn up for windrow. Hinged tongue for coupling with any height wagon. Geared to insure greatest hay-gathering efficiency. Height of rakes can be regulated. Hinged apron guides hay to load and prevents blowing off. Nine gathering rakes, each independent. Set any distance from ground.



The Great Dain Side Delivery Rake

One cannot always make hay while the sun shines. For that reason you should have a Dain Side Delivery Rake. No matter how heavy or how light the hay, this rake can easily be adjusted to deliver it into loose open windrows, so that every wisp is exposed to the air and quickly dried without sun scorching and bleaching. Air cured hay is sweetest, has best color, and brings the highest price. If your hay should be rained upon, simply turn it over, it will dry. It is a rake and tedder in one—three sets of slowly revolving raker-teeth toss the hay into loose, continuous windrows so gently that scarcely a leaf is broken off. Cushion springs take up the jar when driving over rough ground. Investigate this method of getting more money out of your hay. Also investigate

Other Money-Making DAIN Hay Tools

Learn about the Dain Vertical Lift Mower—the seven styles of Stackers—the five styles of Sweep Rakes and the Dain Presses, you will save money if you do. Consult the nearest Dain dealer, or tell us what Hay Tools you are interested in and receive complete information and valuable book "All About Hay." It's FREE.

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Shinn Lightning Arrester

W. C. Shinn's 1910 Lightning Arrester for Telephones gives you guaranteed protection against fire caused by lightning—protection that is backed by Mr. Shinn's \$75,000 bond!

With this device attached on the outer wall of your home you can talk over hundreds of miles of wire without any danger whatever. It protects your 'phone forever and absolutely does away with every element of danger. It is automatic—no levers—no switches—no bolts. It's on guard every minute of the day and night.

It has been tested by every means known to science and never failed. All this for an insignificant sum! Visit your dealer and get this protector at once. If he is not supplied send us a postal card. By return mail we'll arrange for you to get this Arrester at the nearest Shinn dealer.

Shinn Heavy Pure Copper Cable Lightning Rod!

3 Standard Rods in 1!

Rod your buildings with Shinn Rods—3 cable-strength of pure copper—the only absolutely infallible lightning protector in the world.

The center strand is a little giant and this, combined with the others, gives maximum electrical carrying power—greatest possible conductivity is achieved only by the Shinn process.

A postal brings W. C. Shinn's wonderful book "Lightning, and How to Control It"

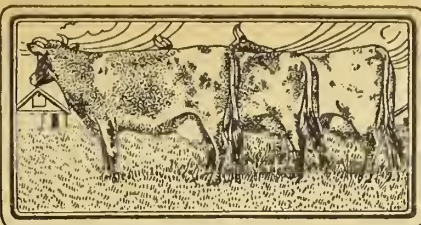
By the Conqueror of Lightning.

It contains all known reliable information for every farmer and every member of his household. Tells all about lightning and the laws of nature in regard to it—how houses and barns take fire, and how people and stock are killed—why water drains, stoves and iron beds are very dangerous during thunder and lightning storms, and explains fully how and why Shinn's Copper Cable Lightning Rods prevent strokes absolutely. Send a postal for it today. Address

W. C. SHINN, 101 North Lincoln, Neb.

THE BEST ROD AT LOWEST COST!

DAIRY



All communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

WHY CREAM TESTS VARY.

Variation in tests has caused much dissatisfaction in the selling of cream. When the cream is from the same cows, which have been fed the same ration and milked by the same man, and when the same separator is used, the farmer naturally thinks the per cent of fat in the cream should remain the same.

Errors are often made in making tests, especially in taking the sample, but variations constantly occur that are due to other causes. The most common causes of these variations, as pointed out in a circular, No. 37, by Prof. C. H. Eckles, of the Missouri Agricultural Experiment Station, Columbia, Mo., are as follows:

1. Variations in the speed of the separator.
2. Variation in temperature of milk separated.
3. Rate the milk flows in the machine.
4. Amount of water or skim milk used in flushing out the bowl.
5. Change in the richness of the milk separated.
6. Adjustment of the cream screw.

Change in the speed of the separator is the most common cause of variation. The greater the speed of the separator, the smaller the amount of cream and the higher the per cent of fat.

Again, the temperature of the milk separated varies on the farm from day to day. If cream tests 30 per cent

when the milk is separated at 90 degrees, it may test as high as 40 per cent when separated at 70 degrees. Under average conditions on the farm, however, the variation in fat due to change of temperature will not amount to more than 3 or 4 per cent.

A third cause of variation is found in the rate at which the milk flows into the machine. If less than the regular quantity flows into the bowl, the tendency is to increase the per cent of fat in the cream.

The richness of the milk separated affects the richness but not the quantity of cream. The richness of a cow's milk depends on inheritance and cannot be changed permanently by feed.

Small variations are likely to occur from the other causes suggested by Professor Eckles. By the use of an ordinary Babcock testing machine and by measuring the sample of cream into the test bottle with the same pipette as is used for measuring milk, any farmer can make a test of his cream that will satisfy him as to the accuracy of the test he receives from the cream buyer.

FARM BUTTER MAKING.

To the Editor of The Homestead:

In producing an article of any kind the main object is "quality" and not always quantity, for at the present and future time to come, unless an article that is put on the market comes up to an equal with the best, it is knocked out by opposition and will hardly bring a sufficient price to pay for producing the same. Hence the height of the producer's ambition should be to produce an article of the best quality, and I know of nothing that requires strictly first-class quality to meet the demands of the consumer more than butter making. However, there is a large amount of inferior butter put on the market, but the consumer will scarcely be deceived the second time and when they purchase an inferior grade from you once they will not do so again, hence the producer of poor butter is continually looking for a market for his or her production, while the producer of good, clean and pure butter has no trouble in selling to the same customer for the second time.

There are several causes for producing poor butter. Sometimes it can be traced as far back as the barn in which the cows are kept and quite often it is in the way the milk is handled, or by not properly caring for the milk vessels, or in the washing of the butter after it is churned. Cleanliness with everything that comes in contact with the milk is one of the most essential factors to be considered, beginning at the barn and not stopping until the butter is on the market.

The barn where I keep my milk cows I keep as clean and in as good a sanitary condition as is possible for me to do. Before each cow is pailed she gets a thorough cleaning off with the curry comb and brush in order to prevent any dirt or trash that may be on her from falling into the milk pail. I always keep a wet cloth for the purpose and dampen her udder to keep loose hairs from falling. A great many consider the task of milking a disagreeable and filthy one and in fact it is if everything is not properly arranged as it should be. If the barn in which the cow is kept is clean and free from bad-smelling odors and the milker is clean himself, then the task of milking is all but a disagreeable one. Before I begin this task I always wash my hands clean and see that there is nothing on my clothing that will find its way into the milk pail, for every particle of filth or dirt that finds its way into the milk carries with it thousands of bacteria.

The care of the milk vessels also



SWEEPING THE FIELD

THAT'S WHAT THE DE LAVAL CREAM SEPARATORS

are doing this year in even greater degree than ever before. 1910 sales to date are 25% ahead of all previous records, and growing weekly. The De Laval shops—the capacity of which is increased every year—are working day and night to meet the demand. All-around De Laval superiority is becoming as universally recognized in Farm as it long has been in Factory cream separators. 1910 buyers will wisely not accept anything else.

THE DE LAVAL SEPARATOR CO.

185-187 BROADWAY

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Dairy Facts

LAST year dairy products sold for over \$800,000,000.00. Did you get your share?

Butter-fat brought a higher price this year than ever before. Did you get a higher price?

The Pure Food Law has made perfect cleanliness in the dairy a necessity. Are all of your utensils absolutely sanitary?

Here is the point: Users of Empire Cream Separators got their full share of the eight hundred million dollars; got their full share of the higher price per pound for butter-fat and, without effort, they kept their machines as clean and sweet as the most strict laws or careful creameries could demand.

These are facts. Write for the proof.

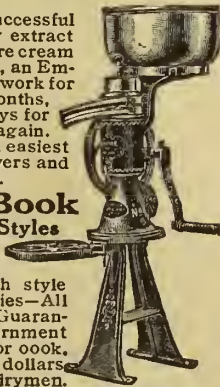
EMPIRE CREAM SEPARATORS

make cow owners successful because they not only extract all the cream, but Empire cream is quality cream. Also, an Empire lasts—does perfect work for years, not weeks or months, which means that it pays for itself over and over again. Always easiest to turn, easiest to clean, best work savers and biggest money-makers.

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Take your choice—Frictionless Empire or Empire Disc—Each style made in a 11 capacities—All backed by the Empire Guarantee, as good as a Government Bond. Send postal for book, the best guide to more dollars ever published for dairymen.

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EMPIRE CREAM SEPARATOR CO.
Dept. G, 1225 Wabash Ave., Chicago, Ill.
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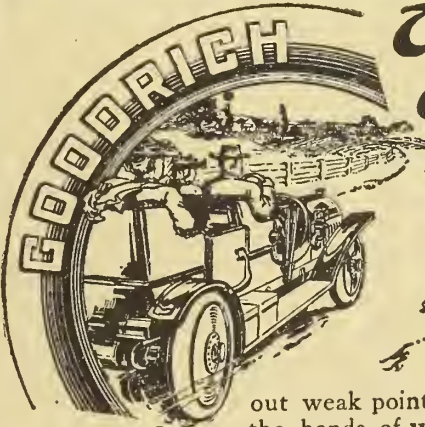
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My new catalogue, just off the press, tells all about how to do it and save one-half the cost. Concrete makes the best silos in the world. Air tight—not affected by acids—will stand forever. Far better than the stave or iron silo and you can build it yourself during your spare time. Write for this valuable book today. It means big extra cash profits for you.

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The Tire of greatest Economy

Goodrich Tires give longest service and least trouble. Their record proves this not only in the big endurance runs like the Glidden Tour and other tests by the manufacturers to find

out weak points in cars and tires, but their record in the hands of users like yourself all over the country.

Goodrich Tires are built to fit every kind of car and have made good on every kind of road surface,—clay or macadam, black waxy soil or rough rock roads. They are made in the largest rubber works in the world—the pioneer company at Akron, the "rubber city". Their great durability is due to the famous Goodrich White Tough Tread and the special Goodrich process of strengthening the fabric.

Your car is no stronger than its tires and the best is not too good for you—and cost no more.

If you own or expect to buy an automobile

send today for interesting illustrated matter showing what Goodrich Tires have done for others and explaining why they are best for farmers and stockmen. FREE for your name and address. Post yourself now and get the most out of your car.

The B. F. Goodrich Company, Department C Akron, Ohio

NO Shrinking Warping Twisting STAVES

The Minneapolis Panel Silo is different and so much better. It's made of tongued and grooved panels cut to 2-foot lengths, dove-tailed at the ends and placed horizontally between the studs—not up and down. All uprights are in ONE PIECE. It makes up tight as a drum and stays that way. You never find a "sieve" when you go to fill it in the fall, as with other silos. We have found the real secret of lifetime silo construction. You get it only in the

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SILO

We can't begin to tell you all its good points or what they all mean to a farmer and stockman in this small space—but take our word for it, every one of them means a handful of dollars to you. So in your own interest write us NOW before you forget, and ask us to send you our book on Silos, Silage and Economical Feeding. Don't think of deciding on ANY silo until you have read this book and done some thinking about what our exclusive points of merit mean to you.

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30th; 100 prepaid 70c; 100, 50c; 300, \$1; 1,000, \$2.50.

Circular free. Chas. J. Mackey, West Liberty, Iowa.

also essential to good butter making. After I have used milk pans, cans, strainers, pails, and even the churn, I do not set them away until they are needed again before washing them, but wash them as soon as they are used by scalding them with hot water, using washing lye to clean them perfectly, then rinse them in cold water and then scald them with boiling water and set them in the sun and air to dry. I never like to keep my milk utensils in a damp place or where the flies have free access to them. A shelf put up outside the milk house and where the sun and air can reach them, the shelf to be tightly screened in, is a desirable place to keep milk vessels. The churning is a matter of some consequence. During the summer months, when the cow is on pasture and but little dry feed is given, it is necessary to churn the milk at as low a temperature as 52 to 56 degrees F., but in the winter months, when the cow is on dry feed only, it is quite often necessary to raise the churning temperature to 60 or 62 degrees. It is also very important to know just when to stop the churn, for the best results in freeing the granules from the buttermilk and thoroughly mixing the salt with the butter may be had when the granules are about the size of a bean or grain of coffee. After the milk is well drained from the butter granules water should be added of about the same temperature as the buttermilk, giving the churn four or five revolutions very slowly so that the water will come into contact with the butter and wash out the remaining buttermilk. If the barrel churn is used the butter may be salted in the churn. Usually about one ounce of salt to each pound of butter is sufficient and by giving the churn four or five more revolutions the salt will be thoroughly mixed with the butter. Then let stand for about fifteen or twenty minutes before the working in order to let the salt fully dissolve. After the salt and butter are thoroughly mixed the butter is then ready for the working. Place the butter in the butter bowl and begin by vigorously working the butter with the butter paddle and work it until it is of the proper firmness and every particle of the milk and water is removed from the butter. I then mold my butter in one-pound packages and wrap in parchment paper; it is then ready for the market.

L. G. Johnson.

RAISING COLTS BY HAND.

To the Editor of The Homestead:

When a mare dies, leaving a very young colt the owner may wonder if it is possible and profitable to raise the foal by hand. He should not hesitate if the colt is a valuable one. Cow's milk is the best feed for young colts, as it is a good substitute for the milk of the mare.

Mare's milk is much sweeter than cow's milk, therefore a teaspoonful of granulated sugar should be added to each quart. The sugar should not be added directly to the milk, but first dissolved in a small quantity of hot water and then stirred into the milk. The milk should then be heated to blood temperature in order to have it just as the colt would get it from its mother.

The next problem is how to feed the colt. In the usual and natural way the foal sucks his mother many times a day, but gets only a little milk each time. To imitate natural conditions a small amount of milk should be fed as often as twelve times a day. The milk can be fed from an old teapot with the thumb of a kid glove pierced full of holes, pulled over the spout. After a few days the number of feeds can be cut down to six, then to four per day. Later skim milk may be substituted for a part of the whole milk; the sugar can then be left out, and finally the colt will drink skim milk entirely.

Along with the skim milk the colt should receive ground grain and good, fresh pasture. There is another point that should not be forgotten, that is, the need of a companion for the colt. A sheep, goat or even a runty calf may be used for this purpose. The colt will not be contented and will not grow well if left alone in a pasture or in the stable. The raising of a foal by hand is a tedious job and demands the feeder's special attention during the

first week or two. If the colt is valuable, however, it will return big wages for the time spent.

Griffith Richards.

Dane county, Wisconsin.

TWENTY-ONE VOLUMES OF ADVANCED REGISTER.

Entries for the twenty-first volume of the Advanced Register of the Holstein-Friesian Association close with the applications received on and before May 16th. All applications received after that date will be published in the twenty-second and subsequent volumes.

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop service from the central station at Des Moines, for the week ending June 5, 1910:

Another cool and dry week has been added to the record of this erratic season. The mean temperature was about 9 degrees below the normal with a decided deficiency of rainfall and less than the usual amount of sunshine. While light showers occurred in nearly all sections of the state the amounts of rainfall were insufficient to be of much benefit except to retard the further drying of the surface soil. Replanting of corn is still in progress and the late planting is showing a better stand than was expected, but on account of poor seed, cold weather and the ravages of moles, cut and wire worms, there will not be over 65 per cent to 75 per cent of an average stand. The cold weather has also retarded the growth of corn and cultivation is only just beginning in the early-planted fields. Small grain and especially oats has made satisfactory progress and are still in good condition. Rye is in bloom in southern, and early potatoes are in blossom in the northern districts. Grass in meadows and pastures is short, but otherwise in fairly good condition. The soil is in exceptionally fine tilth and with a good soaking rain and a few days of warm weather all crops would improve rapidly, although it is now too late to expect an average crop of hay, even with the most favorable weather. Tree fruits will be nearly a failure.

GEO. M. CHAPPEL,
Station Director.

The Watertown Holstein Sale.

The breeders of Holstein-Friesian cattle living in Dodge and Jefferson counties, Wisconsin, held their second annual consignment sale at Watertown, on Wednesday, May 25th. A very large number of the local breeders and farmers were present and took a keen interest in the offerings. Owing to the fact that the sale this year happened to come during the rush of corn planting there were not as many breeders present from a distance as the character and number of consignments warranted. One might hunt the country over and fail to find as good an offering of cattle put through a public sale ring. Everyone in attendance had only words of praise for the contributions and the manner in which they were presented to the public. The consignments were extremely high class in every particular and were placed upon the market wholly upon their merits. The breeders living in the vicinity of Watertown, Wis., enjoy enviable reputations of which they are sufficiently jealous to wish to guard them duly and carefully. The contributors to the sale were: Randall & Luedke, of Watertown; S. H. Bird, of South Byron; W. H. S. Rhoda, of Oconomowoc; August Knope, of Juneau; W. A. Canniff, of Juneau; Hustisford Canning Company, of Hustisford; S. S. Cramer, of Hartland; John Seefeldt, of Hustisford; E. E. Ryder, of Hustisford; S. B. Jones & Son, of Watertown; W. H. Jones, of Juneau, and S. M. Randall, of Waupun. The sale was most ably managed by Messrs. E. E. Randall and Sidney E. Jones. One of the features of the consignment was the cow, Wild Rose Jones 2d's Piebe. She has just recently completed a seven-day butter record of 30.18 pounds and is therefore one of the best things ever offered for sale by that great company of breeders, Messrs. S. B. Jones & Son. These men enjoy the splendid distinction of being the only breeders in the world to have bred five "thirty-pound" cows. They bred the dam, the grandam and the great-grandam of the cow which topped the May 25th sale. Their cows are bred for production. (We invite our readers to go to their farms and enjoy a day looking over their herds. It will repay you for the time and expense. For that matter you certainly will want to plan at the same time on visiting all of these noted Holstein farms in Jefferson and Dodge counties.) Wild Rose Jones 2d's Piebe was purchased by Mr. W. M. Gibson, of Winnipeg, Canada, for the sum of \$1,350. Mr. William James, representing Newton King, Esquire, of Taranaki, New Zealand, bid the "high dollar" for King Segis Wild Rose Homestead. The consideration was \$400. This choice yearling is a son of the great bull, King Segis, and out of the cow purchased by Mr. Gibson, of Canada. The bull, Canary Paul, topped the male offering for \$950 and was purchased by Mr. Lewis Lewellyn, of Waterloo, Wis. This excellent individual was sold a year ago for the top price of the sale.

Space alone prevents further comment upon the offering. Breeders who were unable to attend the sale should remember that several of the consignors still have a number of outstanding individuals for sale. The average of the males was \$154 and that of the females, \$223.92, the total average being \$207.34. A list of buyers includes: W. M. Gibson, Winnipeg, Can.; Geo. Weaver, Elkhorn; Robt. E. Haeger, Algonquin, Ill.; Lewis Lewellyn, Waterloo; C. C. Bentley, Freeport, Ill.; J. H. Wahl, Elkhorn; Henry Anthes, Jefferson; Henry Seefeldt, Hustisford; Geo. A. Knilians, Fort Atkinson; Albert G. Koeh, Richland; Ed. C. Nitschke, Burnett; Dr. G. A. Klettsch, Thiensville; R. M. Bussewitz, Reeseville; W. F. Nehring, Juneau; Fred Wohlig, Clinton; John B. Martin, Grand Rapids, Mich.; John Hettis, Fort Atkinson; John Butth, Grand Rapids, Mich.; E. T. Winship, Owatonna, Minn.; C. M. Corcoran, Fond du Lac; Emil Nitschke, Burnett; E. E. Zedler, Burnett; F. J. Krahenbuhl, R. G. Luedke, Juneau; Harry D. Dunbar, Elkhorn; Thos. Condon, Hustisford; Wm. Traacht, Watertown; Jos. Asenbrenner, Leopold, Minn.; E. L. Ormsby, Black River Falls; Harvest Farms Co., Mayville; S. M. Mulnix, Lena, Ill.; Bernard Mott, Waterloo; D. C. Miller, West Salem; J. P. Riordan, Mayville; F. P. Cross, Davis, Ill.; E. M. Aylward, Richmond, Ill.; M. Dineen, Cedarburg; D. Carley, Tower Hill, Ill.; C. R. Montague, North Prairie; Peter Raam, West Prairie; Jefferson County (Wisconsin) Asylum; O. J. Nolen, Rewey; Geo. Burmeister, Waukesha; W. A. Reed, Oconomowoc; Phillip J. Neuheisel, Spring Green; C. A. Buss, Reeseville; H. F. Jones, Hebron, Ill.; Herbert Ireland, Oconomowoc; Wm. James, Taranaki, New Zealand; F. A. Ziegler, Appleton; E. E. Mickel, Loyd; H. H. Fiedler, Cuba City; J. W. Uglov, Jefferson; John W. Mann, Neosha; John Bleiler, Hanover.

Escher & Son Make Great Angus Sale.

A well deserved tribute was paid that enterprising firm of Angus cattle breeders, Messrs. Chas. Escher & Son, at South Omaha, Neb., on June 1st and 2d, when one of the largest gatherings that has ever been brought together in recent years assembled in response to the advertisements of their sale. It was the event of all events in Angus circles in recent years, and the result of the sale was a fitting testimonial to the great work done by this firm. The outcome marks a new era in black cattle circles, a new record has been made in the numbers sold and prices paid, and the future of this great breed looks brighter than it has in recent years. Much of the credit is justly due Messrs. Chas. Escher & Son and were they to now step down and out of the breeding of Angus cattle, their name would still live as one of the greatest among the constructive breeders of the present day. However, the work that they have mapped out has just begun, and today their famous "Long Branch herd" is not only the largest, but is one of the very best in this country. In concluding to come to Omaha to dispose of their cattle, they made a decided hit and it was a great drawing card to the breeders and farmers of the central West. Their offering was a strictly high-class one from beginning to end and the way that those present took hold of the cattle plainly showed that an awakening was at hand for this great breed. Most of the cattle sold the first day were the property of Messrs. Escher & Son and the second day's sale offering were largely from the herd of Messrs. Escher & Ryan. Messrs. Escher & Son disposed of seventy-eight head of cattle in their offering at an average of \$282. Sixty-six head of females averaged \$273 and their twelve bulls averaged \$310.83. The average on the two days' sale, including the Escher & Ryan cattle, was \$246 on 114 head. The two-year-old Blackcap heifer, Blackcap Echo, topped the sale at \$805, going to Mr. Walter Roberts, Atlantic, Iowa. The top of the bull offering was a son of Earl Erica of Ballindalloch, going to Mr. James Dalgetty, Manning, Iowa, at \$675. Imp. Kanimura of Ballindalloch went to Mr. Oliver Hammers, Malvern, Iowa, at \$400 and was one of the decided bargains of the sale. That veteran breeder, Mr. W. A. McHenry, Denison, Iowa, was one of the strongest bidders the first day and secured quite a number of the best females in the offering. He secured Imp. Error 7th at \$505, Imp. Edessa 3d of the Dell at \$300, Imp. Eytelbank at \$530, Imp. Erica equal at \$505, Kindness of Blackwood 2d at \$250, and several others of equal merit at similar prices. Mr. Walter Roberts was a heavy buyer of the best cattle, as were Messrs. James Williams, O. R. Stevenson, H. L. Cantine, Isenbarger Bros., L. McWhorter, J. M. Hathaway, Hanson & Son, Chas. M. Russell, Stanley Pierce, Len Lamar, Harrison Bros., E. T. Davis, W. W. Andrews, C. P. Southwell, Thomas, Okla.; James Dalgetty, Wm. and John Cash, M. H. Donohoe, Christian & Lang and E. C. Melroe, Harlan, Iowa. On the evening of the first day Messrs. Escher & Son gave a "stag banquet" for their friends and guests at the Her Grand, a program of which is printed elsewhere in this paper, and it proved one of the hits of the season. Colonels Igo,

Judy, Reppert, Callahan and Binnie were the auctioneers for the occasion. A complete list of the buyers follows: Iowa—O. R. Stephenson, Quimby; H. L. Cantine, Quimby; Isenbarger Bros., Battle Creek; C. Arick, Neola; James Williams, Marcus; J. M. Hathaway, Turin; Chas. M. Russell, Carroll; Hanson & Son, Odebolt; J. L. Gollingshorne, Imogene; Lakeside Farm, Storm Lake; J. E. Junke, Stuart; E. T. Davis, Iowa City; Wm. Cash, Williamsburg; John Cash, Parnell; W. M. Murphy, Marne; W. R. Godfrey, Osage; E. C. Melroe, Harlan; Sam McCullough, Walnut; Tom Tannor, Imogene; P. W. Ryan, Adair; Theodore Evans, Persia; John Finley, Marne; M. A. Martin, Wall; S. M. McCullough, Walnut; J. D. Lally, Adair; C. E. Poole, Walnut; Fred Draber, May; Lawrence Sulgrove, Greenfield; R. J. Godfrey, Osage, Nebraska—Harrison Bros., Indianola; Henry Wilt, Scribner; Paul Keller, Morse Bluffs; Christian & Lang, York; M. H. Donohoe, Holbrook; J. O. Aplan, Rushville; Wm. Vogler, North Loup; E. B. Ladin, Crab Orchard; Frank Rose, Verdigris; C. C. Poole, Wabash; O. F. Hunt, Crab Orchard; Geo. Neal, Ft. Calhoun. Buyers from other states were J. B. Robinson & Co., Maryville, Mo.; L. McWhorter, Alledo, Ill.; Stanley R. Pierce, Creston, Ill.; W. W. Andrews, Maryville, Mo.; C. P. Southwell, Thomas, Okla.; C. T. Southwell, Thomas, Okla.; C. G. Southwell, Thomas, Okla.; C. D. Caldwell & Son, Burlington Junction, Mo.; J. H. Morris, Mt. Zion, Ill.

Miller's Clydesdale Sale.

Mr. R. O. Miller, of Lucas, Iowa, held a public sale of Clydesdales at Chariton, Iowa, on June 1st. Mr. Miller drove an excellent lot of Clydesdales into the ring. It was a little to their disadvantage that almost the entire number lacked the flesh which would put them before buyers in a more attractive form. The result was that there was not a correct appreciation of the horses on the part of buyers. Twenty-four head were sold at an average price of a fraction less than \$305 each. The lowest price of the sale was \$170 for an under-year filly. The highest price was \$695, for a four-year-old stallion. Mr. A. Child, of Albany, Neb., was a liberal buyer, taking two stallions and four or five mares. Other buyers were Messrs. Lon Puterbaugh, Lacona; Paul T. Miller, Chariton; H. S. Eckleberry, Derby; B. F. Gommer, Hopeville; Pat Bevard, Derby; M. C. Malone, Oakley; Link Puterbaugh, Lacona; J. D. Vincent, Liberty Center; J. A. McGee, Chariton; A. H. Heaton, Hillsboro, and S. Baxter, Chariton.

Ask your neighbor to subscribe for The Homestead.

AMBER CANE

The most valuable of all fodder plants, and it is the cheapest, most nutritious and greatly relished of all foods for cattle and horses. Price, \$2.50 per 100 lbs., \$45 per ton.

MILLET There is such a shortage in the hay crop that millet seed is in great demand. Present price for the best grade of German Millet, \$2.25 per bushel. Siberian Millet, \$1.50 per bushel. Common Millet, \$2 per bushel. Japanese Millet (Billion Dollar Grass), \$2.25 per bushel.

SEED CORN Tested seed of strong vitality. Pride of the North, \$3.50 per bu. Wisconsin White Dent, \$3 per bushel. Farmers' Reliance, \$4 per bushel. Iowa Silver Mine, \$3.50 per bushel. Reid's Yellow Dent, \$3 per bushel. Yellow or White Flint, \$2.50 per bushel.

The above prices are for orders sent within ten days. Bags containing seed free.

IOWA SEED CO., DES MOINES, IOWA.

Shoo-Fly THE ANIMALS' FRIEND

KILLS EVERY FLY

It strikes when our gravity sprayer is used. Keeps insect pests off animals in pasture longer than any imitation. Used since 1885. Thousands of dairymen duplicate 10 to 50 gallons annually after testing imitations. Absolutely harmless; cures all sores.

30 cents worth saves \$10

worth of milk and flesh on each cow during fly season. No Lice in Poultry House or any place it is sprayed. It dealer offers substitute, send us his name and \$1 for 3-tube gravity sprayer and enough Shoo-Fly to protect 200 cows. Name express office. \$1 returned if animals not protected. Free booklet. Special terms to agents. Shoo-Fly Mfg. Co., 1323 N. 10th St., Phila., Pa. Editor knows from experience that Shoo-Fly is O. K.

THE BUSHNELL

NO LIFTING, NO ADJUSTING OF DOORS. Always in their proper place either open or closed. Safety Ladder. Features found on no other silo. Cuts your feeding cost in half. Pays for itself in a season. Write today for book telling all about it.

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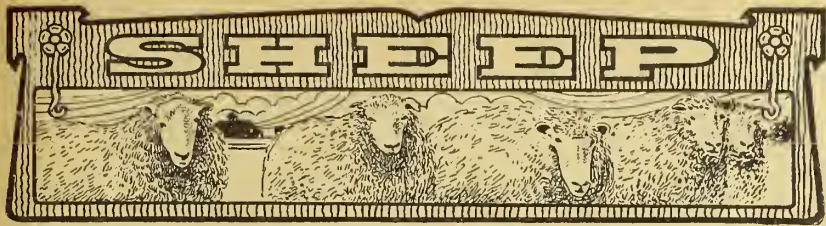
HINGE-DOOR SILO

SEED CORN FOR REPLANTING

DAKOTA GOLD MINE (old 1908), test 75%. Early White Dent (old 1908), test 75%. Northern grown, early and heavy yielding. Price per bushel, \$2.00. Pride of the North (1909), test 93%, price per bushel, \$2.00. Reid's Yellow Dent (1909), test 93%, price per bushel, \$2.00. King of the Earliest (1909), test 90%, price \$2.00 per bushel. Iowa Silver Mine (1909), test 91%, price \$2.00 per bushel. Iowa Gold Mine (1909), test 89%, price \$2.00 per bushel. Legal Tender (1909), test 93%, price \$2.00 per bushel. White Cap Yellow Dent (1909), test 78%, price \$2.00 per bushel. Yellow Flint (1909), test 75%, price \$1.75 per bushel. White Flint (1909), test 63%, price \$1.50 per bushel. (The last 9 varieties are grown in the latitude of Des Moines.)

THE ADAMS SEED COMPANY,

DECORAH, IOWA.



THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

DIPPING SHEEP.

The object of dipping sheep is to free them from ticks and other external parasites which commonly beset and irritate them so as to retard normal growth and development. Early spring and late fall are the times when this task may best be attended to, and a warm, sunshiny day should be selected for this purpose.

The market, writes D. A. Gaumnitz, of the Minnesota Agricultural College, is flooded with dips, most of which have as their basis coal tar oils. If used according to directions almost any will prove efficacious. Whatever the dip used, it is well to make a trial solution and use it upon isolated ticks to determine its insecticidal strength, unless previous use has taught its value. In some cases, apparently dead ticks will revive in a few hours, which indicates the need of strengthening the solution. Warm dips dissolve the oil of the fleece and penetrate to the skin more rapidly. Long fleeces retain a greater amount of moisture for a longer time than do short fleeces, and ticks are more readily killed in this case.

A stationary dipping tank is almost essential to successful dipping. Cement has been found to be the cheapest, the most durable and satisfactory for the constructive material where drainage is such that water does not accumulate.

It is of the utmost importance that the sheep be completely immersed in the dipping solution, and it is advisable to thrust the head of the sheep under with a broom or "Y"-shaped stick. In severe cases repeat the dipping after an interval of nine or ten days, to kill insects which may have hatched in the meantime.

SHEEP ARE RENT PAYERS.

To the Editor of The Homestead:

It is true that in the past the sheep industry, like all other kinds of live-stock growing, has had its ups and downs. The mutton sheep industry has, however, passed the primitive stage. It is now well established upon a paying basis. The American people are demanding more mutton each year, and those who never ate the meat of sheep before, once having tasted its fine flavor, think it the best of all fresh meat. The demand is steadily increasing for good mutton.

Yet there are many farmers who claim they cannot afford to raise sheep upon land worth \$100 per acre or over. However, in England, upon land held several times more valuable than ours, the mutton sheep industry is recognized as the basis of prosperity. Sheep are regarded there as the farmer's friend or the "rent payers." This is also true in Canada. The owners of the highest-priced land there have become well-to-do by raising good mutton sheep, and their land has become more productive.

We hear many farmers lamenting that their boys are leaving the farm, that they do not get interested in agriculture. I believe if the majority of these farmers would secure a few good sheep, place them under the care and management of the boys and allow them the proceeds from the sheep, they would have reason to change their minds. The boys would, in this way, receive valuable training in the use of money and would know its value. The care of sheep and young lambs would develop and intensify the sympathetic side of their natures to the extent that they would grow up to become good, useful, respectable citizens. At least they would be more apt to become such than they would if their fathers bought them fast horses to take upon the race track. There is something about a sheep that appeals to a person's better nature, and brings out of him whatever good there is in him. The care, management and proceeds of a few sheep

will create a love for live-stock growing which will branch out to other kinds of stock, and when the boy attains his majority he will likely be very reluctant about leaving the farm.

Many of the failures in sheep raising invariably have come from starting with too large a flock by those who have had no experience with sheep.



BULLS IN LIND'S SHORT-HORN SALE.

The engraving which appears herewith represents four of the most excellent Scotch Short-horn bulls that have been consigned to the sale that Mr. N. A. Lind, of Rolfe, Iowa, will hold on June 16th, as advertised on page 27. These bulls are Nonpareil Sultan, Choice Sultan 2d, Royal Pride and one other. All are bred in the purple and as individuals will bear the closest inspection. The good words said for Mr. Lind's offering in our field note columns would indicate an extraordinary consignment. The appearance of these bulls justifies the statement. Catalogs giving details in full and pedigrees should be sent for at once. Address Mr. N. A. Lind, Rolfe, Iowa.

That one is successful with a small flock is no reason that he can be with a large one. Failure will surely follow with any kind of live stock if the farmer insists on overstocking his farm.

A good flock of sheep means two harvests in a year—wool and lambs, and as both products are commanding a good price, the future holds great encouragement for all who will engage in this industry. In my experience of over thirty years in raising sheep for feed consumed, capital invested, and labor involved, sheep pay a larger profit than any other kind of stock; and the young men who engage in this industry and give it proper care will never have cause to regret it. Sheep are the stock that pay 100 per cent profit, and sheep raising is a clean, pleasant business.

Corliss, Wis. R. E. Roberts.

IOWA SWINE BREEDERS NEXT WEEK.

We trust that no breeder of swine in Iowa will fail to keep in mind the fact that the annual summer meeting of the Iowa Swine Breeders' Association will take place at Des Moines, on Tuesday of next week, June 14th. The secretary has taken particular pains to obtain for this occasion the presence of many gentlemen of talent, who will present a program of unusual interest and value. The program was printed in full in the last issue of this paper.

Attention is also directed to the fact that the National Association of Expert Swine Judges will hold their annual meeting on the following day, Wednesday, June 15th. The importance of this association is unquestioned. It has been the means of establishing correct type of hog to a greater extent than any other influence. In this connection, arrangements have been made for a most interesting address on the subject, "The Importance of the Score Card With Ref-

erence to the Correct Type of Pork Hog," by Mr. Samuel McKelvie, of Nebraska. Mr. McKelvie has practically given a large portion of his business life to the production of pure-bred hogs, and stands as a judge of the highest order. Specimens of each of the various breeds have been procured and will be present for scoring purposes.

INJURIOUS INSECTS OF APPLE TREES.

The woolly louse or aphid is commonly called the root louse. It is most generally found upon the roots of the apple, but it often causes much injury to the branches. This insect is from one-sixteenth to one-eighth of an inch in length, and is covered with a cottony or woolly white substance from which it derives its name. It

kerosene (away from fire). The liquid is then well churned for five minutes, which can be well done by using a force pump and pumping the liquid back upon itself. At the end of this time the liquid will have become the consistency of thick cream. If properly prepared, the emulsion will keep indefinitely and should be diluted as wanted for use. For spraying fruit trees it should be diluted with from ten to twelve parts of water.

The oyster-shell bark louse appears in large numbers on the limbs of both old and young trees. If allowed to go undisturbed they will soon ruin an orchard. This insect can be easily distinguished, as it is not very large and seems to stay in one place. A good remedy is the above formula of kerosene emulsion, and another excellent remedy is to brush the limbs over lightly with pure linseed oil.

The canker worm is, in certain sections, the greatest pest the apple grower has to contend with, yet it may be easily subdued if anyone will study its nature. The female, which has no wings, comes out of the ground when the soil is warm, or, in our latitude, from May to November. It lays its eggs upon the trunk or limbs. As soon as the leaves begin to show, the eggs hatch and the larvae feed upon the foliage until the trees appear as if they had been burned. This will seriously impair the vitality of the trees and in the course of a few years will kill them.

This insect may be easily subdued by taking advantage of the habits of the female. Around the trunks of the trees apply a band of some sticky substance, such as tar, or some of the preparations now on the market. This should be kept fresh whenever it is warm enough that the insect runs. By this method the female will be caught in the sticky mass when she comes up to deposit her eggs.

A restaurant patron in Arkansas City, Kan., protested against paying for a steak that was so tough he could not cut it. The proprietor said, "Yes, but you've bent it all out of shape."

Ask your neighbor to subscribe for The Homestead.

HIGHEST MARKET PRICES FOR WOOL

REMITTANCES PROMPTLY MADE. WRITE US GRADE AND CONDITION. CONSIGNMENTS SOLICITED.

CAPITAL CITY WOOLEN MILLS, Des Moines, Ia.

300 Goats

Wethers, Does and Bucks.

Wyatt Carr, Collins, Iowa.



Sell Your WOOL To The MILLS!

Woolen mills pay bigger prices than any wool buyers. We are in close touch with the mills. Through us you can sell them your wool, and easily make 2 to 3c more per pound than if you dealt with home buyers.

Our commission for grading, storing, insuring and selling wool is small in comparison to the better prices we can get for you.

We sell 20,000,000 pounds of wool every year, so you can understand how we are able to sell your product at top millmarket prices.

We have been in the wool business 44 years. Our customers number many thousands. The fact that we have kept them from year to year and that their increased patronage has given us the biggest wool business in the country—East or West—is proof that we have lived up to our business motto, "Be fair to the customer."

Think this over. Investigate the situation. Get our terms. Learn our financial responsibility, if you don't now know it.

Just describe your clip and we will tell you what it is worth. We believe we can put 2c per pound net profit on your wool for you.

Let us lay the facts before you. Then you decide whether to sell to home dealers or to sell through us to the mills. Terms and explanations will be sent you. We shall be glad to put your name on our free mailing list and send you market reports from time to time. Write us NOW.

S. SILBERMAN & SONS, Desk 15, Chicago, Ill.
Largest Wool House in America
Successors to SILBERMAN BROS. Established 1866.

WOOL WE BUY HIDES, WOOL AND FURS **WOOL**
DON'T sell wool at home. You can get two cents more per pound by shipping to us. Write for price list. MASON CITY HIDE & FUR CO., 537 East Seventh St., MASON CITY, IOWA.

DAY BY DAY

AGRICOLA

According to my plans I shall be planting fodder corn at the date this will be printed. Of course wet weather may cause a postponement. Last year I planted early, about the time the field corn was planted. The crop was a failure. Rains came on and the corn grew so slowly and the weeds so fast that only corn rowed both ways could be kept free from weeds. It was the only year I have planted fodder corn early and the only year I have failed to have a bumper crop. Along about the tenth to fifteenth of June works best in this part of the corn belt.

Did you ever have trouble sorting out the pigs so different sizes will not be together? When pigs are graded according to size it is feasible to feed each lot and have every pig get his due share. I grade them as you would grade corn—or sift sand—strain them out. Make a hole to suit the smallest size and let them crawl through to steal feed, or shut them all up and let the little ones escape to freedom through the hole.

Notwithstanding all that the papers have said about the poor quality of seed corn I never had field corn make a better stand than this spring, but the sweet corn I saved would not germinate even 1 per cent. That furnished by the factory has been inferior, but by planting thick and allowing for 50 to 75 per cent to grow most farmers have a fair stand, but some abandoned the job and replanted with field corn.

The new industry in this county is making tile of concrete. The water will seep in right through the substance of the tile. Makers of clay tile claim cement tiles have not been proven durable—that no one can tell but an expert whether there is enough cement in it to enable it to stand exposure to the action of the elements. Time will tell, and for one I am glad to see enterprising men take hold and make tiles of cement.

I remember how surprised people were at a farmers' institute when a tile was stood on end, the bottom end closed and water poured in at the top end. It seeped out rapidly the whole length of the tile. This faculty of seeping has made cement cisterns unsatisfactory in some cases. Cement makers say that the way to do is to paint the finished cistern inside with a paint made of clear cement and water, the mixture about the consistency of thick cream. This seals all the pores water tight.

I have a deck roof to my piazza which has been one for more than a generation, and the boards are dry and checked and cracks have opened up in the joints so that the rains wet down through it. Remembering about the cement paint I tried it on this deck roof. It filled all the cracks flush with the surface, closed the checks and made a smooth finish over all, and it has not rained down since. Mrs. Agricola amends this last statement by saying it should read, "It has not rained since." So my knowledge of cement paint for making surfaces watertight is still in the academic stage.

Some wise man, I think he is an experiment station professor, has said that copper sulphate (bluestone) in small quantities will prevent the formation of green scum in stock tanks, being fatal to algae, the vegetation which causes the scum, but harmless to animals when so freely diluted. It takes about five grains of it to act as an emetic for man, and a little lump in a good sized tank of water will clear the water of scum. Clean out the tank first, of course, and put the bluestone into the fresh water. I have used it for several years.

An old recipe for cooking a hare commenced as follows: "First catch the hare." A New Jersey trust-busting enterprise is up against a similar proposition. The grand jury indicted the officers of the National Beef Packing Company, but the governor of New

Jersey will not grant the requisition on the governor of Illinois for the indicted men because they are not fugitives from New Jersey. Can't catch 'em.

"Allah is merciful," said Mahomet when he commanded the mountain to come to him and it would not come and he reflected how much easier it would be for him to go to the mountain. So he went. Many farmers practice the religion of Mahomet. They want a good education for their children and move to town where the educational facilities are to be found, rather than bring good facilities nearer home. A wise man once said—he was wise, all right—that every girl or boy of high school age should sleep at home every night. Shall we have good schools near the farm homes, or shall we desert the farms and make a home in town for the sake of educating the children? Let's have good rural schools, consolidating if we cannot get them otherwise.

Turpentine is death to worms. I have often poured it into a wound which had been neglected on an animal, and smiled to see the maggots come scrambling out as if fleeing from the wrath to come. I have not tried it internally, but it is confidently recommended to free pigs from intestinal worms. The dose is one teaspoonful for each eighty to 100 pounds of pig, given once a day for three days in succession, preferably in milk.

Sometime, sometime, in the sweet future, the hungry city men will come wobbling back to the farm, wagging their dinner pails behind them, and there will be no fatted calf killed on their approach.

Barley or corn or good hay will be appreciated by cows in pasture now. Do not use costly protein feeds, as grass has enough of that and cheap carbonaceous feed is sufficient for the extras.

The man who thought himself cute enough to serve two masters changed his mind when No. 1 prosecuted him for bigamy, and the man who tried farming with race horses is suffering from his mortgage.

FARM BOY'S OPPORTUNITIES.

(Continued from page 8.)

part of the month of January of this year, notwithstanding a duty of twenty-five cents per bushel, we came within one-half of one cent a bushel of bringing wheat from London to New York.

"Without desiring to discuss politics I want to say just a word about the tariff, as it seems to me to relate to the interests of Iowa farmers. If my interests were in the East I would be strongly in favor of a radical revision of the tariff, but as an Iowa farmer and manufacturer, I cannot help feeling serious doubt and misgiving.

"The tariff on wheat is now twenty-five cents per bushel; on barley, thirty cents; on corn, fifteen cents; potatoes, twenty-five cents; hay, \$4 per ton; cattle less than one year old, \$2 per head; cattle worth \$14 each, \$3.75 per head; on cattle valued at more than \$14 each, 27½ per cent ad valorem, which means a duty of \$13.75 on a steer valued at \$50.

"For fifty years the farmer has patiently borne the burden of the tariff without a particle of direct and very meager incidental benefit.

"When wheat was selling at forty-five and fifty cents per bushel and Canada was a wilderness, the tariff meant little to the wheat grower of the United States; but with wheat at \$1 per bushel and Canada's millions of acres of cheap land, which will produce thirty to forty bushels of wheat per acre, being rapidly settled and made productive, the tariff of twenty-five cents per bushel becomes a matter of vital importance to our farmers.

"When we had unlimited cattle ranges and beef was selling at \$2.50 to \$3 per 100, with pork about the same price and with little or no competition, the tariff cut little figure, but today, with beef and pork selling at more than twice these prices and with the Republic of Argentina, with her millions of acres of fertile, unoccupied lands an active, aggressive competitor, and with Mexico on our immediate south with her vast cattle ranges, the

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

307.86 ACRES, 2 miles Curlew, Palo Alto County, Iowa; good land; good improvements. Will take in part payment one or two good draft stallions same as money; good terms. Give full particulars first letter and I'll do the same. Health compels move. Can take horses, but not land. Burrett S. Allen, Owner, Laurens, Kansas.

162 ACRES—15 acres timber; sugar bush; running water at house and barn; 18 room house; basement barn; silo; granary; hog and hen house; plenty fruit; 3 miles from fine village; R. F. D. and telephone. To a quick buyer, \$3,500; \$1,500 cash. Hall's Farm Agency, Owego, Tioga County, New York.

BUY INDIAN inherited lands on Cheyenne Reservation, South Dakota. Sold through Indian Department under sealed bids. Safe opportunity to double your money or buy good farm from \$5 to \$15 per acre. Write to George Thwing, Lawyer, Le Beau, South Dakota.

CENTRAL MINNESOTA farm; 240 acres, 3½ miles from town; 100 acres cultivated; balance meadow and pasture; good buildings; \$40 an acre on easy terms. Write for lists. The A. G. Whitney Land & Loan Company, St. Cloud, Minnesota.

FOR SALE—240 acres in Benton County, Minn., 8 miles north of Foley. Soil a black loam with clay subsoil; land level and free from swamp or waste land. Price, \$10 per acre on easy terms. John McElroy, St. Cloud, Minnesota.

240 ACRES; level; good soil; good water; 10 acres timber; clover and timothy; orchard; large buildings; school across road; 6 miles to Westphalia; \$60 per acre. Owner, Wm. Kellerman, Westphalia, Kan.

MINNESOTA's finest improved lands at bargain prices. Won world's sweepstakes on oats and 1,000 prizes on corn and wheat. List free. Write Secretary Corn Breeders' Association, Cokato, Minnesota.

BARGAIN near Parsons. 160 acres black soil; new 5 room house; barn and outbuildings; plenty water; price, fifty dollars acre, including crop. Rowland DeBus & Delaplaine, Parsons, Kansas.

FOR SALE ONLY—One of the best 80 acre farms in Johnson County, Missouri; ¼ mile from town; well improved. For description write Mrs. Lava Tapp, Leeton, Missouri.

BIG CAMAS Prairie has the soil, pure water, healthful climate, and through railroad coming. Relinquishments, \$500, \$2,500. Fred Orr, the Land Man, Soldier, Idaho.

FOR SALE at a bargain; 160 acres Central Missouri land, partly improved. Price, \$8 per acre; half cash, balance good time. George Kowertz, Climax Springs, Missouri.

MINNESOTA corn belt farms are the best buy on the market today. Send for our list. Ericson Land Co., 411 Palace Bldg., Minneapolis, Minnesota.

CASH for property, any kind, anywhere. If you want to buy, sell or exchange, address Northwestern Business Agency, Minneapolis, Minnesota.

LINCOLN COUNTY joins Sioux County, Iowa. You can buy or rent farms on easy terms. Thos. Brady, Worthing, South Dakota.

ADDRESS Homeseekers' Information Bureau, Pierre, South Dakota, for truthful information about Dakota lands and homesteads.

FOR SALE or exchange; dry goods; \$18,000; also \$3,000 grocery; well located, Adel, county seat. W. A. Wright, Adel, Iowa.

BEAUTIFUL Improved Iowa 240-acres, rental \$5 cash at \$85. Write S. Sanders, Sioux City, Iowa.

tariff on cattle and hogs is of vital importance to the farmer of the United States.

"For years we have prided ourselves upon being the granary of the world, and our exports of farm products have kept a steady stream of gold flowing from foreign nations to our shores.

"In 1909, for the first time in our history, the little republic of Argentina exported more farm products to Europe than we did, and she exported 60 per cent of all the meats imported by all of Europe.

"Ships are constantly clearing from American ports loaded with agricultural implements, machinery, cars and locomotives for Argentine ports. These ships come back loaded with sand and gravel for ballast.

"Take off or materially reduce the duty on agricultural products, and these ships will return loaded with the things which Iowa's farmers produce and sell; and the farmers of Argentina will prosper at the expense of the farmers of Iowa.

"It may be that the interests of the country as a whole may justify this sacrifice upon the part of the farmer. It is possible that compensating features may be found which will make up the loss. But action of such moment should not be permitted without the fullest possible investigation, and it is time the farmers of Iowa and other western states were awakened to the importance of this particular phase of the tariff question.

"No danger which has ever confronted a nation compares with the danger which comes from an inadequate food supply. Necessity knows no law, and hunger is necessity's last and most dangerous extremity.

"In every great crisis, in every hour of danger from that momentous night when Paul Revere rallied the farmers of New England to resist the impending danger at Bunker Hill, the farmers have always promptly and efficiently responded to the country's call.

"Here lies the farmer's marvelous

REAL ESTATE.

CANEY RIVER Valley home. Corn, wheat, alfalfa; the very best soil. Get out the old plodding community into this hustling new state, where man of moderate means has chance and the man of large means golden opportunities. I will sell you land right in the oil gas belt of Rogers County, Oklahoma. You stand good chance to make fortune on oil or gas. For particulars write W. B. Herriman, Room 14, Woodbury Bldg., Marshalltown, Ia.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15¢ per line. Send 10¢ in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

SOUTH DAKOTA—Are you interested in South Dakota, the state that is leading all other states in the production of wealth per capita? If so, send for free literature on Brule County and South Dakota. No agents need apply. I sell direct to purchasers, who save from \$1 to \$5 per acre commission. J. A. Stransky, Pukwana, South Dakota.

LAND OPENING—233,265 acres of ceded Chippewa Indian Lands in Minnesota will be thrown open for homestead entry at 9 o'clock A. M., June 20, 1910. For lists and further information, address Minnesota State Board of Immigration, Room 225, State Capitol, St. Paul, Minnesota.

800-ACRE stock farm, Osborne County, Kansas; 600 fenced; 200 cultivated; 30 alfalfa; 11 room house; barn, sheds and outbuildings; good building stone; timber for shade and fuel; 4 wells; 3 windmills; telephone and daily mail; \$30 per acre; terms. F. G. Kimball, Manhattan, Kansas.

FOR SALE—Several good sections of finest wheat land in Sunny Southern Alberta at \$11 to \$13 per acre; easy terms. Also improved farms. Write at once for full particulars. First class investment. Freeman, McLeod Company, Dept. 19, Box 679, Lethbridge, Alberta.

I WANT information immediately about a good grain or stock farm for sale. There is a good buyer waiting for it, willing to pay your price. Write me at once for full particulars. Address Arthur Capper, Dept. 43, Topeka, Kansas.

CASH for your business or farm. No matter where located or what your property is worth, if you want to buy, sell or exchange, address Frank P. Cleveland, 1279 Adams Express Building, Chicago, Ill.

HOWARD COUNTY, Iowa, farm for sale; 95 acres well improved; good location; good buildings; all modern conveniences; must be sold. For particulars apply to Henry C. Ehrke, Lime Springs, Iowa.

BUY YOUR HOME in Williams County, North Dakota. Best soil; best climate in North Dakota; \$15 to \$25 per acre for improved farms. Call on or write P. K. Everson, Tioga, North Dakota.

FOR SALE—Black Hills farm of 80 acres; 25 acres cultivated; balance timbered. Seven miles from Hill City. Write L. H. Thomson, Oriskany, S. Dakota.

ALP ALFA LANDS for sale in Central and Western Kansas; better than a gold mine, write us. Home Land Company, Herington, Kansas.

MONTANA LANDS—Live salesman wanted in every locality to sell Montana lands. Geo. Noltmer, 216 N. Y. Life Bldg., St. Paul.

FOR INFORMATION about the best land, in best districts, on best terms, write Croft Land Company, Matador, Texas.

300 CHOICE FARMS in Northeast Kansas for sale. Write for descriptive list. Manville & Bailey, Holton, Kansas.

WE CAN TRADE your property. Book of 500 exchanges free. Graham Brothers, Eldorado, Kan.

KANSAS FARMS, one fifth down, balance time Dillon & Woodward, Dill, Oklahoma.

HELP WANTED.

WANTED—Railway mail clerks, government clerks at Washington, D. C., city mail carriers and postoffice clerks. High salaries; short hours; annual vacations; steady work; common education sufficient. Examinations announced everywhere July 15th. Country residents eligible. Influence of any kind unnecessary. Over 15,000 appointments every year. Candidates prepared free. Write immediately for schedule, showing places of examinations. Franklin Institute, Dept. U. 23, Rochester, N. Y.

WANTED—Motormen and conductors for street cars, firemen and brakemen for steam railways. \$30 to \$150 per month. Hundreds of vacancies. Write for particulars. American Standard Institute, Kansas City, Missouri.

WANTED—Railway mail clerks, P. O. clerks and city carriers. Prepare now for examination. Write for schedule and free trial lesson. Ozment, Dept. 42 R. St. Louis, Missouri.

MACHINISTS and molders intending to locate in California and wanting employment there, call on or address Holt Caterpillar Co., Peoria, Illinois.

GOVERNMENT examinations announced everywhere July 15th. Write for schedule. Franklin Institute, Dept. U. 23, Rochester, N. Y.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

POULTRY.

ROSE COMB Rhode Island Reds; choice stock. Eggs, \$1.25 per 30; \$3.50 per 100. Address Mrs. J. Holmgren, Rofe, Iowa.

BLUE ANDALUSIAN, Columbia Wyandotte, Silver Hamburg eggs, 30, \$2; 100, \$5.75. A. Arends, Blairburg, Iowa.

ENGRAVING.

ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

POST CARDS.

30 FINE post cards, only 10¢. Mostly birthdays; no trash. German American Post Card Co., Dept. 5, Burlington, Iowa.

MISCELLANEOUS.

TYPEWRITERS—All makes, all prices. Large stock of 22 makes to select from. Prices ¼ to ½ manufacturers' prices. Slightly used and factory rebuilt machines on speciality; full guarantee. We ship on approval anywhere. Write for bargain list. B. F. Swanson Co., 222 Fifth St., Des Moines, Iowa.

FOR SALE—My liquid egg packing recipe for \$1, Chas. Hendrix, Lovilia, Iowa.

opportunity and his solemn duty. Here is spread out before the farmers of the country, and especially the boys and young men on our farms, a work of broad-minded, unselfish devotion as important and as lofty in its aim as has ever inspired the patriotism, the love of home and country, of the citizenship of this great nation.

"We are trustees holding this land as a sacred trust for generations yet unborn, and the happiness, the comfort, yea, the very existence, of our children's children, and the millions who will follow us, depend upon the conscientious, far-seeing wisdom with which we discharge this solemn trust."

THE ESCHER BANQUET AT OMAHA

One of the novel features of the Escher Aberdeen Angus sale at Omaha last week was the "Stag" banquet given by Messrs. Charles Escher & Son at the Her Grand Hotel on the evening of June 1st. They had issued a special invitation to all the breeders attending their sale and also to many of their other friends and about 150 gathered around the banquet board to partake of one of the most lavish feasts ever given on an occasion of this kind. After supper was over Mr. Charles Gray, secretary of the Aberdeen Angus Association, who acted as toastmaster for the occasion, opened up the meeting with a few appropriate remarks and then introduced Mayor James Dahlgren, of Omaha, who welcomed the cattlemen to the city of Omaha and gave them the freedom of the city. Prof. H. R. Smith, of the Nebraska State Agricultural College, was on the program with a paper, "Representing the Great State of Nebraska," while Frank D. Tomson, of the Gazette, had for his subject, "The Fieldman, a Benefactor." Mr. M. A. Judy gave a very interesting resume of Aberdeen Angus breeding in America and was followed by that old veteran breeder, W. A. McHenry, with a most interesting paper, "Aberdeen Angus Cattle Breeding—By One Who Knows." Mr. Escher paid Mr. McHenry a very deserved tribute by requesting the entire audience to rise to their feet and give three cheers for the great work that he has accomplished in the breeding of Aberdeen Angus cattle. Mr. McHenry, it will be remembered, is one of the oldest and best breeders of Aberdeen Angus cattle in the United States. He has defended his favorite breed in season and out of season and when occasion required he always went down in his pocket and gave liberally to advance the interest of Aberdeen Angus cattle. Col. Tom Callahan spoke on "The Real Value of an Auctioneer," and C. J. Martin read a very interesting and instructive paper, entitled, "Of All That Is Good Iowa Affords the Best." Herman Oswald, of South Omaha, was on the program for a reading and Rev. Father White closed the evening's entertainment with an interesting address that was well received by those present.

One of the progressive farmers of Grundy county, Mo., is P. Jackson, who turns his ground with a gasoline plow of twenty horsepower, with five gangs.

The Hess Aberdeen Angus Sale.

Mr. Harvey J. Hess, of Waterloo, Iowa, sold Aberdeen Angus cattle at the Quietdale Farm, May 31st. An unusually large number of breeders and farmers were in attendance. Mr. Hess has made every preparation to have this sale conducted in a businesslike and satisfactory manner. It was preceded by a splendid lunch on the Quietdale lawn, served by Mrs. Hess and her able assistants. An average of \$184 was maintained on the entire number sold, which was around fifty head. Considering the high merit of the animals which had been cataloged for this sale the average was not as high as really might have been expected. The top price for females was \$735. Messrs. McMillan & Co., of Waterloo, Iowa, paid this price for Blackbird of Quietdale 9th, a four-year-old daughter of Mr. Hess' great herd bull, Ebony of Quietdale. Messrs. McMillan were very liberal buyers, taking in all more than a dozen head of the best females in the sale. Other buyers of females were Messrs. C. J. Martin, Churdan; W. S. Austin, Dumont; W. S. Desenberg, Norwalk; J. B. Murphy, Bryant; James Williams, Marcus; T. L. Goeldner, Webster; N. O. Chase, Dike; J. A. McEwen, Rockford; E. E. Mitchell, Reinbeck. The consignment of bulls failed to receive the appreciation to which they were entitled. Five hundred dollars was the top price, which was secured

LANDS AND HOMES FOR SALE

2,000 ACRES DEEDED LAND

Located in N. E. Utah, 3 miles from main line of Oregon Short Line. Proximity to Bear river gives plenty of water for irrigation. All fenced, 4 wires with posts of cedar and aspen. Improved land adjoining grows 30 to 50 bushels of wheat without irrigation. Also cut 2 crops alfalfa last season. Ideal location for large ranch or mixed farming and ranch. Altitude 6,500 feet. Free timber and outside range. Phosphate reserve within few miles now being worked furnishes work for settlers and good market for produce. Cultivated land adjoining brings \$35 to \$50 an acre. Deeds and abstracts given to purchaser. Price \$11 per acre. One of the best land buys in the market today. This ad will not appear again. Write today.

BEAR RIVER VALLEY LAND CO., Dept. 2, Montpelier, Ida.

BUY A HOME IN SUNNY SOUTH DAKOTA

We have choice bargains in farms and ranches. Write us for further information.
THE O'RIELLY LAND COMPANY, DRAPER, LYMAN COUNTY, SOUTH DAKOTA.

MONTANA FARMS IN THE FAMOUS JUDITH BASIN

COME to Lewistown, Montana, where wheat is KING; where the straw is a rich, golden color and stands up straight until the cutting; where the grain yields 30 to 60 bushels per acre every year. We have 16 inches of black soil, with a yellow clay subsoil. PLENTY of rainfall during the crop-growing season to insure big yields every year. Come where there is rich, productive soil, pure mountain water, with a healthy, pleasant climate. Absolutely the richest wheat lands in the Northwest. Government statistics prove it. Investigate and you must believe. May I show you? Homesteads and patented lands. Land values rapidly increasing. COME NOW.

STONER'S LAND AGENCY, Lewistown, Mont.

Improved Kansas Farms

I OWN the following improved farms, all near Severy, Kan., that I will sell on a payment down and the balance on long time at low rate of interest: 80 acres at \$45 per acre, 160 acres at \$35 per acre and 320 acres at \$30 per acre. I am not a real estate dealer; simply own the land and want to sell it. If you are interested write or call and see the land. **M. J. BIDWELL, Severy, Kansas.**

Lyman Co. Lands

A SNAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. **HAGLER LAND CO., PRESHO, S. DAK.**

160 ACRES

OF No. 1 farm land in Stanley County, South Dakota, for sale at a bargain. Address N. Nelson, 476 Elizabeth Street, Pierre, South Dakota.

for Kandahar of Quietdale, Messrs. McMillan being the buyers. Other gentlemen who purchased bulls were: Mythalter Bros., Independence; Ingram & Smith, Mt. Vernon; M. B. Capron, Melbourne; Ralph Babcock, Milan, Ill.; Henry Prusia, Preston; Kerry Wilson, Norwalk, and Keiser Bros., Garnaville.

Billie's Short-horn Sale.

Messrs. J. G. Billie & Son, of Hartington, Neb., who held a public sale of Short-horn cattle at Crofton, Neb., June 2d, met with a decided success. The day was fine, the crowd large, the cattle good and the bidding spirited. Colonel Bellows opened the sale with an interesting talk on the cattle situation and a prophecy that an extraordinary development and improvement would be made within a very short time. Mr. Andy Peterson, of Crofton, Neb., paid \$210, the top price for a female in the sale, for Eva Star. Bold Archer, the herd bull, brought \$315, the buyer being Mr. E. M. Rissler, of Crofton, Neb. Considering his conformation and breeding, this bull was exceedingly cheap at the price. Mr. A. G. Andrews, of Bloomfield, Neb., paid \$270 for Dutch Archie, a yearling bull. The seven bulls in the sale brought \$1,320, an average of \$188.56 each. The twenty-six females brought an average of \$133.87. The average of the entire sale was \$148.05. Among other buyers were the following gentlemen: Frank Zurcher, Crofton; J. C. Merman, Crofton; L. J. Heile, Crofton; John DeVries, Crofton; George Schaefer, Crofton; E. C. Eickhoff, Crofton; Joe Prinz, Fordyce; Lee Koch, Fordyce; J. V. Cooper, Crofton; O. W. Query, Hartington; Dave Garrigan, Hartington; John Dugan, Hartington; Joe Duman, Wynot; A. J. Andrews, Bloomfield, and W. C. Meyer, Carroll, Iowa.

Windy Summit Short-horn Sale.

The dispersion of the Windy Summit Short-horn herd, owned by Mr. H. L. Summers, at Malvern, Iowa, on June 1st, resulted in an average of \$80 on forty-three head. The herd bull, Bud White, went to Mr. A. G. Fisher, of Randolph, Iowa, at \$200, and Secret Archer went to Messrs. Bragonier & Son at \$165. Other good buyers were C. B. Delts, Tabor; C. M. Follette, Malvern; Andy Berkheimer, Malvern; H. Ewing, Red Oak; Fred Durbin, Malvern; V. L. Gaston, Tabor; J. B. Fickel, Hastings; I. J. Swayne, Malvern; E. P. Laughlin, Imogene, and Val Williams, Wayne, Neb.

Back to the Soil 50,000 ACRES

In St. Louis and Carlton Counties MINNESOTA.

NEAR fast growing cities of DULUTH and SUPERIOR. Splendid markets. Eighteen railroads. Soil fertile and well adapted to general farming, dairying and raising of garden truck. Price, \$8 to \$10 an acre. Easy terms. Lands are owned by this company, free of all incumbrances, and no reservations. Write for full particulars and information.

Boston & Duluth Farm Land Co.
No. 18 5th Ave. West, Duluth, Minn.

MONTANA LANDS

Write today for our beautifully illustrated folder about the famous wheat and alfalfa lands in fertile Cascade county, Northern Montana.

We can sell you land that will produce 30 to 50 bu. of wheat to the acre at \$15 to \$25 per acre. Improved farms \$29 to \$40 per acre. Best soil; plenty of rainfall; perfect climate the whole year round.

ASK FOR OUR FREE FARE COUPON AND LIST OF DEEDED LANDS.

M. A. STRANG LAND CO.
GREAT FALLS, MONT.

"Montana's Leading Land Firm."

HOMESEEKERS' PARADISE

THE FAMOUS ARKANSAS VALLEY OF COLORADO 40,000 acres of the finest land in America. Grows all kinds of crops. Good Railroads. Up-to-date towns. Sugar factory and alfalfa meal mills. Good Markets. Climate best in the world. Irrigation system ranks with the best. Our price \$30 to \$35 per acre, with perpetual water right. Easy terms, no interest. Your fare paid if you buy 80 acres or up. Write for illustrated booklet, map.

MONSON & MALCOM REALTY CO.
300 Kiltredge Bldg., Denver, Colo.

SOUTH DAKOTA Corn and Alfalfa Lands

The rush is on for Stanley county. Buy lands near the new railroad and double your money in the next year; 20,000 acres to select from; \$12 to \$18 per acre. Write for maps and booklet.

PELLAND REALTY COMPANY,
530 Palace Bldg., Minneapolis, Minn.

IOWA FARMS FOR SALE

TWO farms of 320 acres each improved; lying adjoining in a square section in Decatur Co., 5 miles from town; soil A1; mostly fenced; land gently rolling to level; easy terms. For immediate sale, \$77.50 per acre. **Santee Bros., Cedar Falls, Iowa.**

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

4 IOWA FARMS

On account of eyes and health I offer all my farms for sale, being four improved quarters within ½ to 2½ miles from good town; farmers' creamery and elevator; on M. & St. L. R. R., about 45 miles northwest of Ft. Dodge, Iowa. Come and see or write for particulars. Address H. B. Richards, Mallard, Iowa.

INVEST IN SUNNY ALBERTA, CAN.

FOR SALE—320 acres of choice land with improvements, only two miles from thriving town on C. P. Railway, at sacrifice price. Write me for particulars. I can interest you.

T. W. Wilson, 229 Spence St., Winnipeg, Can.

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address **BERT I. WELD, SLAYTON, MINNESOTA.**

Buy Corn Belt Lands In the Famous Montevideo black loam prairie district of S. W. Minnesota. \$30 per acre and up. Free pictorial and descriptive price list. Address **E. H. Crandall, The Land Man, Montevideo, Minn.**

MUSSELSHELL VALLEY MONTANA LANDS

In the Musselshell Valley of Central Montana, along the Milwaukee Road's new line, we own and offer for sale 23,000 acres of highly productive farming lands—also some grazing lands—at \$8.00 to \$25.00 per acre. Terms, one-third cash; balance in five equal annual instalments with interest at 6 per cent.

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POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

DEAD IN THE SHELL.

To the Editor of The Homestead:

The following communication has been received from an Iowa subscriber:

Can you tell me the reason for so many of my chicks dying in the shell this season? It seems that most every one is having the same trouble this season. Would be greatly pleased for an immediate reply.

The severe winter and close confinement connected with heavy corn feeding is the cause of at least a part of this trouble. There is no luck about it; it is simply having things right. I have very hard work trying to convince people of the necessity of not only feeding less, but promoting more exercise during such a winter as this past one has been. Both of these are essential in the care of stock which we expect to use for breeders. Close confinement for three months (consecutively) is pretty hard on fowls, especially with the ordinarily improvised conditions we find on many farms, and this, in connection with heavy feeding on corn, just caps the climax. But perhaps one-half the dead in the shell can be traced to faulty incubation, the make-up of the machine sometimes being the cause. However, it is more often due to the ignorance of the operator. I shall not attempt to explain the many causes leading up to dead in the shell through faulty make-up of the incubator, but shall confine myself mainly

to what can be avoided in management by the operator.

A fresh egg is supplied with at least 20 per cent more moisture than it actually needs in the growth and development of the chick during the incubating period. This superfluous moisture in the egg is supplied by Nature to provide for such emergencies as arise during the natural process of incubation (the hen). The hen permits this evaporation for a time in order to get rid of this excess moisture, but as the egg comes in contact with the oily secretions of the fowl's body day after day, the pores of the egg are gradually closed up so that the evaporation almost ceases. Everyone who has watched a hen during incubation has noticed a shiny gloss upon the eggs. This is the oily secretion from the fowl's body, and it has done its work very nicely. Now, if we are to be successful with incubators, we must bring about the same condition, but by an altogether different process. This brings us up to the much mooted question of moisture and ventilation. Many people think this ventilation is used only to supply air to the rapidly developing embryo inside the egg. That is true, but do not have that in mind when supplying ventilation to your machine. You must remember that you are using that ventilation to carry off that excess moisture from the egg, and if you do this and do it rightly, sufficient ventilation will be supplied the rapidly developing chick. The operator will probably ask how he is to be guided in the use of ventilation. Simply have your egg tester convenient, so that when caring for your machine you can place a few of the eggs before it from time to time so as to watch the enlargement of the air sack. Let this always guide you in supplying ventilation. As your egg gradually evaporates, the air sack enlarges, and it should enlarge so that on the fifteenth day it occupies about one-fifth of the entire space inside the egg. This is as it should be at that time; if it is larger than that you have used too much ventilation, and if smaller, not enough. So you see there is no excuse for any one to go wrong. My reason for advising the use of several eggs is to get at an average, as all eggs do not evaporate just alike. Now, suppose that in extremely dry weather, which we often have even in early spring, the evaporation becomes too great with a certain amount of ventilation, what are we to do? Shall we close the ventilators? Oh, no. Those eggs must have air and it is under such conditions only that the use of moisture comes in. The eggs need no moisture, and it is simply used to vaporize the air in the egg chamber which, of course, prevents the air from taking any more moisture from the egg. Many get confused in this matter, thinking the eggs need the moisture, but this is not so. If properly incubated as the hen will do, so as to retain the moisture, no moisture whatever is needed.

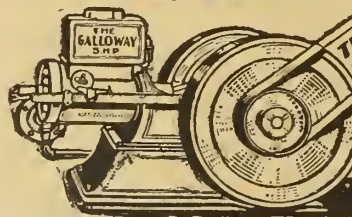
Now, the reader will probably ask what all this has to do with chicks dying in the shell. Just this: Suppose you handle your machine in such a way that by the use of moisture and ventilation the chick absorbs all of that excess moisture, what follows? Why, just this: You have a chick literally packed inside that shell. It might be a good, strong chick if it could only get out, but it is so large and compact inside the shell that it cannot make its natural circumference in its entrance into the world. A chick to come into this world naturally, must at the proper time after it has pipped the shell, commence to turn around on the inside of the shell, cutting its way as it goes by means of its only weapon—the little, sharp horn that nature has provided it with on the end of its beak. Sometimes I

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have watched them make this turn several times before getting the path properly cut away so it could stretch itself, thereby pushing the cap which it had cut from the large end of the egg and coming into the world, a healthy chick. Now the reader will see by this the necessity of growing that chick to its normal size only. I would advise no one to undertake the use of an incubator unless he is willing to inform himself along these lines. There are no set rules for supplying the ventilation, but it must be studied out on the grounds where your machine is operated.

The question often arises in regard to the practicability of filling an incubator to only half its rated capacity, and most people I find think that only one-half the amount of moisture need be supplied. This is not the case, but just the reverse. If anything, just twice the amount of moisture should be supplied, because there is only one-half the number of eggs for moisture to escape from. So, in order to reach normal conditions and stop further evaporation, enough moisture must be supplied to make up the deficiency. It often happens that where excessive moisture has been supplied the little ones are so compact inside the shell that they cannot even pip and this is most liable to be the case in a well-built, thoroughly-packed machine.

C. E. Matteson.

Waukesha county, Wis.

CRAZY CHICKS.

To the Editor of The Homestead:

A South Dakota subscriber sends the following communication:

What ails my little chicks? I have hatched 483 with hens this season, and sold 235 to neighbors. I took them from the nests and placed them in boxes where they kept nice and warm and they did nicely until about a month old, when I noticed some of them acting crazy, or rather, having fits. Some of them fully recovered while others died. I fed them millet seed, cracked wheat, with plenty of fresh water, and fine oyster shells for grit. They were always worse after drinking water. After the morning feeding and watering these crazy fits would attack them and they would throw themselves over on their backs and peep and seem to be in great distress. I kept them confined in boxes in the house except on nice days when they were placed out in the sunshine in pens, and later, I let them run everywhere. One of my neighbors put pepper in their drinking water, which she says seemed to help them. I fed chopped onions to mine, which seemed to keep them from dying quite so fast as my neighbors'. I have lost little guineas in the same way. I have inbred my stock. Do you think that would cause it? I find no trace of lice or mites. When the chicks have fits, they seem to cramp and foam at the mouth. I even changed them to

pens to make sure that it was not the artificial work, but still they are affected. They seem to be worst at from one to three weeks old. What will prevent and cure these little ones?

Our correspondent is certainly to be pitied, for her loss is indeed great, but she certainly has done some very foolish things. I believe her chicks are strong and all right when hatched, but I condemn her practice of inbreeding which always has a tendency toward deterioration. Furthermore, I criticize the practice of using oyster shells for grit. Many people do this, but it is a mistake, because oyster shells become soft and will not take the place of grit. The chicks should have access to fine, sharp gravel or some of the prepared grit, in addition to the oyster shells. Neither is the food exactly what I should recommend, as it is not varied enough. Forty per cent cracked grain, 40 per cent cracked wheat, both to be dry and hard and free from all taint of must or mold, with about 20 per cent pin-head oatmeal is a good variety of grain, which, together with onions, crisp, green cabbage or lettuce, and nice, warm, sweet skimmed milk, makes a pretty good variety of food. But even such a food should be fed in a fine litter so as to promote exercise. I cannot understand how anyone could expect to raise that number of chicks by such a method. The loss incurred in this case would have paid for a whole complement of brooders many times over, which could be used for many seasons to come. There is no doubt in my mind but that these attacks were caused by the chicks drinking too much cold water after their long nights of confinement in those boxes. In fact, chicks or guineas or anything else will gorge themselves, and the water being cold, stops full circulation of the blood and causes cramps. It is not fits or craziness, but simply cramps in their vital organs and if it affects the heart too strongly, they die. To begin with, chicks should have access to water at all times, right from the start, and if that is seen to, cold well or spring water is all right, because they never become over-thirsty and only take small quantities at a time. But in case the fountains do become empty (as has happened to the writer, through error), so that intense thirst follows, warm water should be given, and even then not all they will consume for a time, until their normal appetite for water is resumed. Then keep water near them. It should be given in automatic fountains made in two parts so they can be scalded occasionally, especially where milk is used in them. The

writer has for years followed the practice of giving the chicks every morning, all the warm, sweet, skimmed milk they will drink, after which the fountains are rinsed out and filled with water. Where dry feeding is practiced, which I certainly endorse if done correctly, chicks get very thirsty and require a great deal of water. Water also improves digestion and should be kept by them at all times.

The writer, in anticipation of a hatch of chicks, prepares for their reception several days in advance. If the brooder has been used before, I thoroughly disinfect it with Douglas mixture of a 2 per cent solution of carbolic acid or Kreso dip. Their bedding, grit, etc., is looked after, the lamp is lighted, drink fountain scalded and put in readiness, a dish of fine oyster shells and one of pulverized charcoal put in, and then only fifty chicks are placed in one brooder. Nothing is fed for at least forty-eight hours. The use of red pepper I do not endorse, but in this particular case it probably prevented some of the trouble because it assisted in warming the chicks up. Chopped onions are advisable and in this case they relieved the thirst. Good common sense is all that is necessary in poultry raising. There is but little contagion, and most of our trouble is caused by our own errors. I should be ashamed to tell all of my mistakes, but we should always profit by them and be careful not to repeat them. It is much easier to get proper information today than it was twenty-three years ago when the writer was going through his amateur state.

Subscriber.

GOOD LAYERS.

To the Editor of The Homestead:

In a recent issue of your paper I saw a letter by E. L. Vincent in regard to a lady making a record of fifty-five and one-half dozen eggs with fifty hens in the month of March. I think I can go one better. Last March I had thirty-six hens—twenty-nine Plymouth Rocks and seven Buff Leghorns—and received sixty-two and one-half dozen from them. I set three of the hens the latter half of March and sold fifty-three and one-sixth dozen eggs for \$9.41, an average of over seventeen cents per dozen. This is my second year with poultry. The hens were all last June pullets with two or three exceptions.

Mrs. L. M. Hewitt.

Linn county, Kan.

A subscriber asks as to whether or not new drakes should be introduced into the flock each year, and to this we would say that new blood should be introduced every time any of the young birds are used. Inbreeding should not be practiced even in a small degree, for sterility in the females and impotency in the drakes is more likely to exist in ducks than in any other class of fowls. Of course, when once mated up, you can keep them so mated until you see fit to use some of your young females for breeding purposes, and then by all means, use non-related males.

Every poultry raiser who uses incubators and brooders has discovered that the difficulties arising among brooder-raised chicks are numerous, and that at times they are hard to control because the reasons for their existence cannot be learned. A good many readers of The Homestead who have experienced these troubles have learned that the use of Walker's Roup and Cholera Cure, in quantities as directed, proved to be not only a cure for disease, but an invigorator and health producer. It seems to help in the development of chicks and brings them to maturity earlier and to better advantage. It is an inexpensive remedy which is sold at fifty cents per package by the Walker Remedy Company, Dept. U, Lamoni, Iowa.

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PRIZE-winning B. Langshans exclusively, scoring 94% at Dubuque by Lambert. Eggs after June 15, 13, 50c; 26, \$1; 100, \$3. W. W. Baskerville, Earlville, Ia.

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BLACK LANGSHAN Eggs for sale from large thrifty birds, farm range, \$1.00 per 15; \$4.00 per 100. Address, J. H. Rayl, Afton, Iowa.

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26, \$1; 100, \$3. A few good cockerels for sale. Address ROBERT HUNT, EARLVILLE, IOWA.

Barred Plymouth Rock

Eggs at \$1 for 30 \$1.50 for 50 and \$3 for 100. Mrs. Sidney Hunt, R. 3, Earlville, Ia.

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From White P. Rocks, Fishel strain; \$1 per 15; \$1.50 per 30; \$4 per 100. Hens, \$1 each. Mrs. E. C. Turner, Route 1, Griswold, Ia.

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From Barred Plymouth Rocks. Heavyweight fowls a specialty. Write for prices. L. D. Wells, Morrisonville, Ill.

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Wyandotte eggs for sale, from choice, pure-bred stock cheap remainder of reason. Mrs. J. W. Lowe, Clarksville, Ia.

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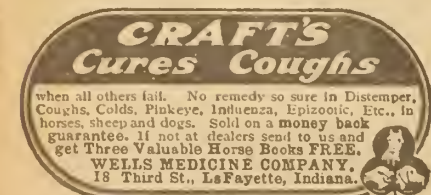
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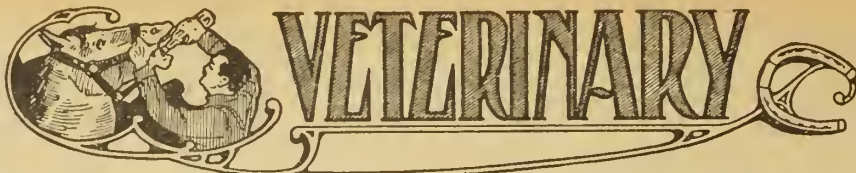


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SYMPTOMS AND TREATMENT.

BELATED PREGNANCY.

I have a twelve-year-old mare in good flesh, but not fat, that was bred June 20, 1909. She started to make bag about April 24th, when I turned her out in pasture with some colts (she was alone before this time), and her bag seemed to go away, and did almost all leave. On examination I found a small amount of milk in same, which made me think that probably the colts had been sucking her, so I brought her home and put her in a pasture by herself and now find that she still has a small amount of milk of natural color, but very little bag. There are no other indications of a colt with the exception of flanks and body, which are very full and deep. I can see no movements now. She could not have lost it without my knowledge. Do mares sometimes go twelve months, and do you think she is only going overtime? If possible I would like to have your advice through the columns of your paper.

Mares quite often go twelve months or a little more in foal, but in a case such as you describe it is very likely that the foal was ready to come away when you first noticed milk in the udder, and not coming away has died. A careful examination of the mouth of the womb should be made when a mare streams milk and if it is found open parturition should be induced by breaking the water bag, unless it happens that labor pains promptly commence after making the examination. Have an expert make the examination now.

ENLARGED THYROID.

I have a bay mare, ten years old, that has a lump about the size of a goose egg under her jaw, about where the throat latch of the bridle goes. I first noticed it about a month ago. It doesn't seem to pain her any, but it feels hard to the touch and will, when pressed, go back into the throat where it is not noticeable until she reaches for her feed. She is in the harness every day. I feed mixed corn, bran and good timothy hay, but she is rather thin in flesh. Any information you may be able to give will be appreciated.

One of the two thyroid glands is enlarged and this need not cause alarm, nor should treatment be given. If both were enlarged and the swelling increasing it would constitute goitre and require treatment.

GREASE.

I have a large, black three-year-old stallion with extra heavy bone, weighing at least 1,500 pounds, that has a watery or oily discharge between hoof and pastern joint. He has been standing in the barn for nearly two months with but little exercise. I have fed him corn and alfalfa hay. He is slightly swollen to the hock joint and seems to be a little stiff, especially in the hind legs. He is also broken out a little worse in the hind legs than in the front. He is of the Percheron blood and said to be imported stock. His appetite is good, but he has not the energy or life that he should have.

This disease is the product of over-feeding and lack of exercise. It is to be expected if one fails to give the horse work or abundant exercise daily. Stop all food other than grass and work or exercise the horse thoroughly every day. Better let him live an outdoor life until he recovers. A stallion in that condition should not be used for service.

PARALYSIS.

I have some old Duroc Jersey sows, two-year-olds, that have been on alfalfa pasture and corn and blue grass, and have broken down behind and completely lost the use of their hind parts. Some eat and drink all right, while others will scarcely touch anything. I have tried blistering with caustic balsam and also gave turpentine inwardly and applied externally over kidneys.

In many cases of this sort the bones are weak and rickets present the tendency to the disease being hereditary and brought out by lack of nitrogenous food and bone building material. Where plenty of alfalfa and grass are taken on free range such cases are rare and are not likely to be of the character of rickets. More likely worms have something to do with it, but it would be best to kill one of the affected pigs and make a careful post-mortem examination; then write again. Meanwhile it may

be added that in such cases good results have sometimes followed the puncture-firing of the muscles of the loin. This may be done by a veterinarian who has a thermo-cautery with a fine point or by means of eight inch pieces of baling wire straightened, sharpened, fitted into a handle and heated white hot.

SCOURS.

I have a bunch of little red pigs that have the white scours. They are about a month old and were shut up for about two weeks after birth. Then I let them out on grass. I feed oats, corn and sweet skimmed milk and middlings. They have had them about a week.

Improper feeding and lack of exercise are the causes. Stop feeding corn and oats and feed only sweet skim milk, middlings and limewater; the latter at the rate of one ounce per pint of slop. Oats are unfit food for young pigs. Ground oats should be carefully screened. The husks are apt to cause scours or fatal enteritis.

PUFFS.

I have a cow, five years old, which has several small bunches on the right hind leg. They look like windpuffs and have been there for some time. What are they and is her milk good to use? Have seen the same thing on different cows before. Would you open them?

We would advise leaving the puffs alone. If they tend to enlarge it will be time enough to treat them by painting with tincture of iodine each other day; or if they are hot, sore and soft then they likely contain pus and should be opened and swabbed with tincture of iodine daily until healed. We cannot say what they are without making a personal examination.

INJURED JOINT.

I bought a three-year-old bay gelding weighing about 1,200 pounds that had been wire cut across the right shoulder, close to the shoulder joint. After working this horse at heavy work about ten days he seemed to have sprained the joint so that every step he took the joint seemed to leave the socket. The wire blemish was healed, but left a hollow place on the face of the shoulder which was almost large enough for a man to put both hands in. The treatment that I have given has been hand massage and a good blister put on about every five days. Since spraining the shoulder, sweeney has de-

veloped and the muscles are puffed out-side the joint.

This colt should not be worked this season, but should be allowed to run on pasture until the wasted muscles fill in again. To stimulate growth of muscles blister with cerate of cantharides at intervals of three or four weeks.

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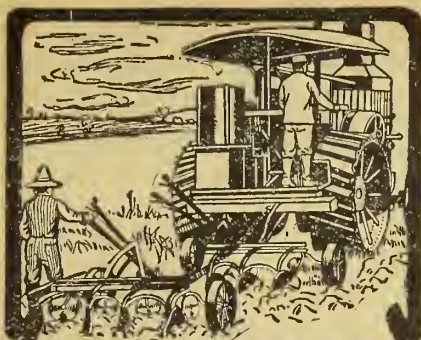


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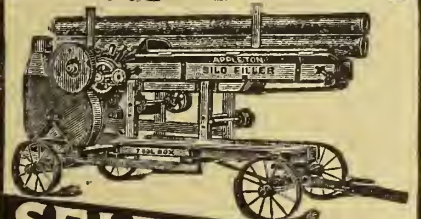
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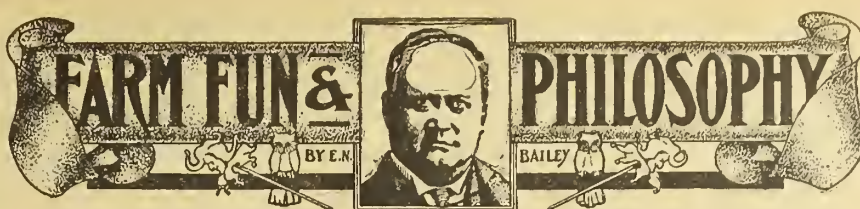
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They are retracing the old overland trail to the far West. This has been done many times by men who have gone West to grow up or (blow up) with the country, in returning later on to live with their wife's father.

Many a man misses it in moving west for more fertile land instead of living where he is and mixing brains with his farming. Land in the "far East" can be made to produce twice the number of dollars per acre that land in the "far West" will many times, and at a less expense all around and far more comfort to the famer and his family. Bridges, roads, schools, markets and churches are not taken into consideration to the extent that they ought to be. Farms in the East can be bought for less money per acre many times, and the other things taken into consideration makes the old farm the cheapest and most desirable. Lost fertility can be restored at a less cost than the added taxation to secure the advantages that the old home already has. A farmer sold his old farm one day, saying, "it won't raise anything but dandelions." The buyer said, "Well, if it will raise dandelions, it will raise saffron," and in five years he had made a big percent on his investment and was raising saffron at a large profit. He mixed brains with his farming.

During a woman suffrage agitation some women were arrested for "posting notices of a women's convention on the telegraph poles." That was right. What license have the women to climb telegraph poles and hold meetings up there? Look nice, wouldn't it, a hundred women perched up on the crossarms holding suffrage meetings? They ought to be "called down."

The figure of Justice blindfolded and delineated on the walls of a court room, makes one feel that the blindfold is the most emblematic part of the whole figure. If Justice could talk she would probably say: "With all the evidence on both sides, each diametrically opposite, I find myself inclined to simply 'go it blind.'" It is always a female figure, which seems intended to impress on the litigant that "when a woman gets up in the air" she is liable to lose her balance and it is appropriate that she should have another in reserve, and the sword in her hand teaches that no matter whether he wins or loses, he is going to have a slice pared off from his revenue anyhow.

Now is the time for the sweet girl graduate to study all day and worry all night over her lessons and then put in the rest of the time getting her graduation gown so it will "set" right and not hunch under the arms. And then will come the night when she stands before the audience scared half to death for fear that she will forget something or make a mistake, and when it is all over there is relief from the care and toil of years that has been hers that this day might come. It is the consummation of the hopes of a school girl, the recompense of her first ambition.

POOR RICHARD'S RECIPES.

To keep a good hired girl: Hire her at a dollar a week more than she asks and allow her to meet her best fellow seven nights in a week in the front parlor, and if necessary keep the rest of the family in the kitchen. If she has no best fellow, get her one. Allow her each forenoon to receive calls and the afternoons to make calls. If her best fellow hasn't a horse and buggy or an auto, buy him one and teach him how to run it. There is no trouble whatever in keeping a hired girl in this way until she is married. You should never ask her to do any work between meals.

To break a horse from cribbing: Take a barrel of sand, head it up tight and place it on the upper floor of the barn. Cut a hole in the floor large

enough to let the barrel through and set a post sharpened at the upper end squarely below the center of the hole. When the horse sets its teeth on top of the post and straightens up to suck wind, roll the barrel of sand on top of his head. It is seldom that a horse served in this manner will crib the second time.

The Cow's Lost Cud.

A man has a cow that he thinks has lost her cud and asks advice. He says: "My cow has eaten moss and slough grass all the spring until she has pulled out all her upper front teeth and now she gives buttermilk with a green scum on it. Is it the moss that colors the buttermilk?" He also wants to know if it is true that a cow has four stomachs and sometimes loses her cud in one of them? Alas; it is too true. When a cow loses her cud it generally lodges in the first, second or third stomach, where she can regain it by humping up her back and saying "gawhoomp" once or twice, but if it passes into the fourth one it is a goner unless you send a diver after it mighty quick.

The real trouble is, your cow has atmosphere in the omasum and it causes the cud to evaporate.

The stomach of a cow is corrugated like a washboard with warts on it, and is built more for keeping things down than for lifting them up. Give her some more moss, and lighten it up for a balanced ration with a ton of bran and a load of tame hay. When the bran begins to chase the hay around inside of her it will doubtless find and restore her cud if her insides are not warped too much.

Going to Law.

Some of our laws should be changed. For instance, two neighbors get into a quarrel over a line fence, first they blow, then they come to blows, then comes a lawsuit. A hits B first and B proves it, but B hits A first and A proves that, too. A asserts that B with a "to-wit" club which is produced in court, did feloniously and premeditatedly thump, thwack, bunt, lambast, bat, bang and punch him in his aforesaid throat, neck, gullet and throttle, while B is just as positive, and produces his club which is larger than the other one, and asservates and declares that with malice pretense, like a roaring lion, with the gleam of Satan in his eye and his fist doubled up, that A came at him with maledictions, imprecations, anathemas, execrations and other cuss words and did there at that time, pound, whack, larrup, mug, paste, soak and strike him in a bold, fearless and intrepid manner on his aforesaid nose, proboscis and smeller, contrary to law and against his aforesaid peace of mind, and also did squeeze him so that his eyes bugged out until he could see where his suspenders crossed, all of which greatly disturbed his nonchalance.

Now, irrespective of what the courts may say, can A hit B in that manner? Of course he can't, but he did; and on the same theory can B mug A as he says he did? Any lawyer will say no, but he did. This proves that A is right and so is B. Any lawyer will tell you that for five dollars and will prove that it "ain't so" for five more.

The law should be changed so that if A hit B first and B proves it, and if B hits A first and A proves it, then both shall be deemed innocent of assault, but both shall be deemed guilty of mollycoddling in the first degree and fined a hundred dollars apiece. No one can go on the premises of another and call him sour names, but they do. No one can call another sour names just because he came on his premises, but they do, so what are you going to do about it but make mollycoddling a crime and in such cases find them guilty and fine them accordingly?

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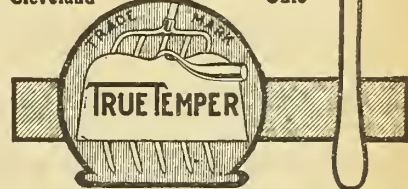
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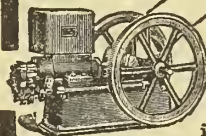


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Washes in from three to six minutes a tub full of clothes that hand rubbing wouldn't accomplish in less than an hour.

The "Quicker Yet" has all the advantages of other washing machines with many that are found in no other. It's more simple in operation and therefore more durable than others. But it's the wonderfully easy running qualities of the "Quicker Yet" that characterize it and make it so

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This "difference" is due partly to the unique self-gathering momentum device. It's found in no other washing machine. It's started by just a little effort on your part, but the moment it is fairly in motion the weights located under the tub respond to centrifugal force, fly straight out and take a grip on the work actually decreasing the pressure on the handle necessary to run the washer. Carries it with greater force and with greater ease on your part, than would be possible by any other method.

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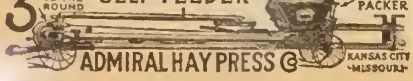
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WITH THE EDITOR.

From time to time, during the years in which it has been my privilege to edit The Home Department, it has been my custom to give here, "With the Editor," certain contributions intended for the circle. Sometimes an article is too lengthy for Among Ourselves, sometimes it is of a nature unsuitable for general discussion, sometimes it has a message so important it seems well to give it the prominence of isolation. The article to be presented this week comes under the latter category.

Perhaps greater interest will attach to "The Hygiene of Sunshine" if it be explained that its writer became acquainted with our paper by chance and liked its Home Department so much that he decided to offer his little story in hope of reaching and blessing a large public:

The whole atmosphere may be changed and its people made better by one man's sunny greetings. The man I have in view I will call Mr. Smith. The place is a village where I lived for many years. Mr. Smith was soon distinguished from the other Smiths by the people calling him "Good Morning Smith," as this was the name he was known by.

When we come to think about it we can find nothing in particular in the whole category of "Good Morning Smith's" achievements. His career as we know it is distressingly commonplace, and yet we like to dwell upon it and convince ourselves that our zeal just after his funeral was not unworthy or misdirected.

This man, Smith, appeared in our little village on the hill a dozen years before his death. From whence he came, his previous life, his family, the source of his income, and his purpose of settling in our little village was all mysterious, and always remained so. At the time of his arrival our little village was deep in the dumps. Half the population was not speaking to the other half. We had personal politics, any amount of church quarrels, factions in all our lodges, cut-rate competition in all the stores, and in addition to all that the editors of our two newspapers were calling each other more names every week than they honestly deserved.

Our village was a nice community of unhappiness, and the man, woman or child who was caught smiling felt strangely guilty. Many more things rather unpleasant I might mention, but suffice it to say that in the midst of it all Smith happened to move into our village. He was a plain, sound sort of an everyday man, with a pleasant kind of smile on his countenance that appeared as if it had been caught there at his birth and could not get away. From the minute he landed at the railroad station he greeted everybody he met with a "Good morning." We thought him daft at first and told him that good morning in the middle of the afternoon was hardly respectful or to be found in an almanac. But that did not disturb him in the least. "There is always a good morning and it will be along soon," he said. So it soon came to pass that he was known to everyone in our village as "Good Morning Smith."

Well, we are told in our Bible that "A little leaven leaveneth the whole lump," and surely Smith's reputation began to work a most amazing change in our village's atmosphere. Smith would make his way down the street, meeting scowling men, frowning women and sad-faced children. He would call out at them, "Good morning," as a robin would sing before breakfast.

Then the man would forget his scowl, the woman's face would lose its frown and the children would smile and say joyously, "Good morning, Mr. Smith." Inside of a year he had the preachers calling one another brothers, and even the editors forgot to refer to esteemed contemporaries. We had more courtships, more marriages, more business, more enterprises, more of all sorts of good things than any of us ever thought of or dreamed of. How could all this be possible in so short a time? We had for some time been considering our village a one-horse place and on the down-hill grade. But at this time a great change had taken place in the inhabitants. Everybody seemed to have faced about, so much so that we formed a local improvement association, organized a commercial club and collected money to advertise our village as a great health resort, with the best and most beautiful parks, with a chance of becoming the finest manufacturing center in the state. We offered every inducement possible to get capital to locate in our village.

We were progressing so finely that we forgot all about Smith, until he died. Then we began to think, we traced the things that had happened

since his coming to our town, and as we were doing this our hearts ran away with our heads and we felt within them a sense of personal loss, that our heads could not understand. It seemed that Smith had put into us the note of hope and philosophy which had wrought the change. And when his funeral took place the biggest church could not hold the crowd. All the ministers of our village were there in the same pulpit. The two editors sat side by side. Old enemies were speaking and smiling and somehow everybody was saying to everybody else, "Good morning," just as though they wanted it to be known that while Smith's body rested in an eternal sleep the message that he brought to the people of our village was immortal.

The Rev. Dr. Blank was chosen to preach the funeral ceremony and make the remarks. He began his discourse, which was surely very appropriate, by saying, "Good morning," with an excellent imitation of Smith's voice, then he went on telling what influence this humble man's cheerfulness had been in our lives, our homes and our business. He had converted a community by two words, yes, converted it from self and selfishness to sunshine and courtesy, and where can you find a happier hope than "there is always a good morning and it will be along soon." "We preachers preach righteousness day in and day out. I wish we could live our religion one-half as well as this man did by simply saying a cheerful word to everyone we meet. He has left an example that if followed generally would overturn the world."

Within a week after the funeral we held a special meeting of the local improvement association and collected funds for a monument for Mr. Smith. You will find it on the top of the hill in the cemetery facing the sun which never fails to shine upon it each clear day, as the sunshine of his cheerful countenance shone upon the people of our village, and on this monument you will find this inscription, "G. M. S. Died June 6th, Good Morning."

This little story has a good moral to it which you can read for yourself. And it takes no great scholar to fathom it out. "Good morning."

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY.

The year's at the spring,
And day's at the dawn;
Morning's at seven,
The hillside's dew pearled;
The lark's on the wing,
The snail's on the thorn;
God is in heaven;
All's right with the world.
—Browning in "Pippa Passes."

A SUNNY FACE.

Wear it. It is your privilege. It has the quality of mercy, it is twice blessed. It blesses its possessor, and all who come under its benign influence. It is a daily boon to him who wears it, and a constant, ever-flowing benediction to all his friends. Men and women, youth and children, seek. All social circles welcome cheeriness. A sunny face is an open sesame to hearts and homes. By it burdens are lightened, cares dispelled, sorrows triumphant where fear and doubt and despondency held high carnival. Your own life will be sweetened, your own quickened, your own joys heightened by your perennial, heaven-lighted sunny face.

IT HELPS A TOWN.

A good country road is always to be desired and is a source of comfort and convenience to every traveler. Good roads attract population, as well as good schools and churches. Good roads improve the value of the property, so that it is said a farm lying five miles from market, connected by a bad road is of less value than an equally good farm lying ten miles away from market connected by a good road. A larger load can be drawn by one horse over a good road than by two over a bad one. Good roads encourage the greater exchange of commodities between one section and another. Are we all doing our part toward making good roads in this part of the country?

SEWING ROOM HINTS.

A tape measure pasted across the front of the machine will save the seamstress many moments in the course of the year.

If you wish to be sure your sewing shears will be on hand when you wish to use them, the best plan to follow is to tie them to the machine with a long ribbon. Have another pair of cheaper shears to be used any place about the house.

FOR THE COOK.

Beef Loaf.—Many families like beef loaf. Try this one: One teaspoon onion, chopped fine; one-half cup bread crumbs, salt and pepper to taste, and one-half cup cold water. Mix the ingredients in the order given, put in a buttered baking dish and bake in a hot oven until cooked through. Strawberry Tapioca.—Make the tap-

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as you have never
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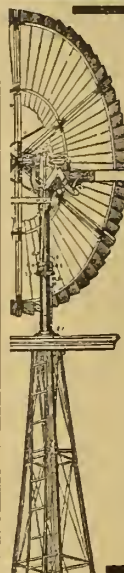
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will cut tall grass, short grass and weeds, and do all the trimming along the fence, walks and drives. If your dealers do not keep them, let us know and we will send circulars and prices. Clipper Lawn Mower Co. Dixon, Ill.

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ioca according to the recipe given on the package of prepared tapioca. Crush the strawberries and add plenty of sugar and when the tapioca has been boiled sufficiently take it from the stove and stir the crushed berries into it. Serve cold with cream.

Cherry Dumpling.—Remove the fiber from five ounces of suet and chop the suet fine, mix it with half a pound of flour, add one-fourth teaspoon salt, and cold water to make it hold together. Roll out on a floured board to about an inch thick. Cover the surface well with the cherries which have been pitted; dust with sugar and roll. Tie in a floured cloth and place in boiling water and boil for about two hours, or cook in a steamer. Serve with hard sauce made by creaming butter and sugar together.

AMONG OURSELVES.

A North Dakota subscriber with a philosophical temperament strengthened by religious faith will open our program. After wise, kindly words for us all she has a message especially for young mothers:

It rests one to look over the paper just before supper. We may know all or part of what we read, but unless we are often reminded we forget. I believe we are more thoughtful if reminded of little duties. And then there is someone who has had just as hard a time as we have, and there is some dear soul who has found joy and happiness doing the little everyday duties of life. And there is joy untold if we would not forget God. Life holds so much sunshine. Don't let your face get long if you can help it. The world is reaching out for love, comfort, joy; give all you can of it. It costs you little and gives big returns by your own life broadening and rounding out. If we could only be forgiving, forgetful and thoughtful. Look on the bright side—trust. There is a silver lining to every dark cloud. I have lost loved ones out of my family. Things were a little hard at times, but out of it all I love to steal away and talk to God, as he knows all about it. My life has been full of its joys along with its sorrows. Now a word to that young mother who anticipates so much joy with her three little girls. I am not old, but I want to say, as I have grown children, enjoy your babies now, enjoy them later, always enjoy your dear children. I have heard mothers say the same thing as you spoke of. But I believe when children get beyond the parent enjoying them the parent is at fault. My girls are like sisters; they kiss me many times a day and tell me how much they love me. I feel repaid for all the going without and prayer and watchfulness for my children. We were quite poor at one time, but the children did not realize it, as I always tried to keep it quiet and make the best of what we had. They were as happy as I. If you let the child think that every little thing they get is a burden to you and that you cannot afford it, as you are so very poor, they soon feel as if it were wrong to get it and the enjoyment of it is gone. If you cannot afford a thing help them to plan some way they may help get it. Be interested in all they do. Let their joys be yours. Take time to be with them. Talk, plan, love your children and you need never feel that they are trying to run things. Love them, plan for their enjoyment and they will plan for you and love you back. Teach them household duties; teach them God's love. There are so many things that could be said I would love to write to that young mother.

For once I am just as pleased that "Peggy D." did not give the circle her address. If she had probably this good letter would have gone to her instead of coming to bless us all.

"A. H. M." is one of the multitude who for a long time enjoyed the benefits of Among Ourselves and just now comes for the first time with a thank offering. It is one worth waiting for:

I have enjoyed "Among Ourselves" for a good many years and have never written any to help the good work along. Often I see the questions asked and have thought I just will write an answer to that. Then I would think, "O there are others who can do that better than I," so I would let others write and I read. I was so glad there were good men in our circle who would not keep quiet under the accusation of "Ranchman." I feel sure that my "only man" does not come under the class he describes. But that is not what I came to talk about this morning. What stirred me to take my pen was the question that was perplexing that young mother who has three little girls and has been told that she will enjoy her daughters less every year they are with her. How discouraging! I, too, at one time had three little girls and older mothers told me that when my daughters were little they were lots of bother, but when they get big they will be trouble, and that when they are little they tread on your toes, but when they get grown they tread on your heart. Now I want to say to that young mother I am not going to quote any old adage to you, but plain, gospel truth, which I know from experience to be true: "Train up a child in the way she should go and when she is old she will not depart from it." As I said before I once had three little girls. But, oh, in such a short time (seemingly) those three little girls have become big girls. My oldest, married five years, was nearly twenty-two when married.

The second one was married last winter at the age of twenty. The youngest will be eighteen her next birthday and is attending college. So you see I talk from experience when I talk of raising girls, and as I look back over the years I had my daughters with me I often wonder why people talked to me as they did when my daughters were small, for I can truthfully say my daughters were never any trouble, and oh, such a comfort and I enjoyed them more every year they were with me. At first they were my dear little babies, then my dear little girls, then as they grew older they became my helpers, my chums, my companions, and oh, so much as we were to each other no one but a true mother and a good, loving daughter knows, for mama was always first with them. They never gave me cause for one heart pang till "that young man" came along and they decided to take another to be first in their hearts. Then the struggle that took place none but a mother knows, but as that was the plan of the Creator and as I had set the example and the young men were all that I could desire, of course the struggle had to be confined to the heart and not allowed to show itself. And now since they are married I find that it does not change our relations very much after all. While their husbands are, as they should be, the first, yet mama is still very near and I have two grown sons added to my family. More than that, my oldest daughter has come back a little girl again to me, "a little granddaughter," who is so much like her mama. When I am with her I can easily imagine myself twenty-five and her two again. So you see I have no reason to complain if two of my daughters have left the home nest. And I want to say to "Anxious Mother," don't expect your daughters to be anything but a blessing always to you and if you will use tact, wisdom and love in training them while small they will be a constant comfort to you. I have one boy who is nearly thirteen years old and if he is just as good when grown as my daughters have been I will feel that my Heavenly Father could not have bestowed a greater blessing upon me than he did by the gift of my children. I have made this rather lengthy for the first, but this is a subject that stirs my very soul, and if I thought that I could be of any help to young mothers in the raising of their children so that they, too, could feel as I do when their children are grown, I would gladly do so. You must keep in close touch with your daughter through all the different changes of her life if you would keep her confidence and have her feel that she can go to mama with her whole heart and find sympathy, love, advice and all that she needs. And when a daughter confides in mama there is not much danger of her causing her mama much trouble.

How sweet it is to hear such words from a mother of four children! So many mothers miss the sweetest joys of motherhood that when we meet one who has had her cup heaped up and running over our hearts sing for very joy. The joy is tinged with wistfulness because so many mothers who really mean well miss it. Perhaps if mothers like "A. H. M." would come among us oftener others meeting them would be helped.

It is more than time the call for help with a musty refrigerator was given attention. Mrs. B. B. Westlake, who is a new member, but one who has learned to love this circle, will tell of a tried remedy:

I see an inquiry as to how to clean a refrigerator and would like to give my plan. I first clean it well by washing with soap and sometimes with scouring materials, then wash it all inside with ammonia water, and be sure to clean well and pour pure ammonia down the drain pipe. Ammonia is a cooling agency and after the first bad smell it leaves the refrigerator sweet. I have often washed the refrigerator with ammonia water in the morning before the ice man came and as soon as he left shut it up tight again and found no difficulty in keeping it clean and sweet. I have found ammonia so good for around the house I would not do without it. Weak ammonia water will clean the very best hair and military brushes without injury. Stand the bristles down in a good airy place. Ammonia on your rag or sponge when cleaning a bath tub or other porcelain articles in bathroom will clean quickly and without injury to the high polish or glaze on article if well rinsed off. I often use ammonia to clean coat collars where they get greasy, or any other grease spots from woolen clothes. Do not use too much. Pure ammonia will remove paint or varnish from glass, door knobs or door latches. I have written more than I intended, but with a varied experience with ammonia and other kinds of disinfectants and cleaners I like ammonia the best of all.

Ammonia is so inexpensive that, with borax, it should be found in every kitchen. Both have been tested for keeping a refrigerator sweet in my home and both found effective.

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This machine is not a hand-power washer with certain attachments added to transform it into a power washer. None of the machinery is fastened to the bottom of the tub, to be drawn out of alignment by warping. The driving belt is on the left side, entirely out of the way. It can be driven by one of the small gasoline engines now so common on the up-to-date farm.

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Automatic Electric Washer Company, Newton, Iowa



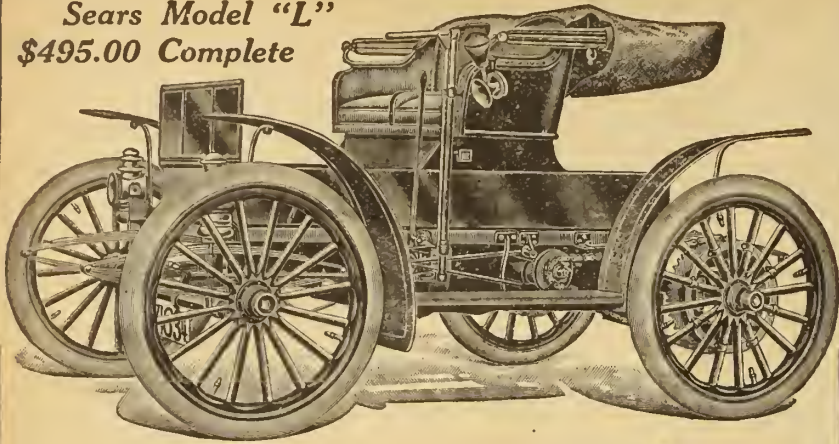
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OUR new Automobile Catalog quotes THE ONLY REAL INSIDE PRICES ON AUTOMOBILES. In this catalog we show automobiles for \$370.00 and up, six different models, all built by us in our own automobile factory. When you buy a SEARS you get it direct from our big Chicago factory at the factory price.

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If you are interested in an automobile of any kind, write today for our Sears Automobile Catalog No. 65141

Sears, Roebuck & Co. Chicago

had experience enough to say a few words in regard to the hand separator. I have used crocks and pans; I have had tall cans in the deep-setting method, and have had milk separated at a creamery. Now we use a hand separator and find this method best. I make this statement because we get more profit from the cream sold, raise much finer calves and pigs and know that we handle our milk in a more tidy and sanitary manner. The cost of a separator is but small compared to its advantages. The labor of running one is not great, but when it comes to cleaning it I disagree entirely with M. G. B., whose letter was lately published. He says, "The separator takes less than five minutes to clean." My separator takes a great deal more than five minutes to clean. Yesterday I tested this. I had a full supply of hot and cold water, dish cloths, towels and brushes at hand. I worked briskly in a convenient room with nothing to distract my attention and cleaned the machine in twenty-three minutes. This morning I repeated the test and finished in twenty minutes. So it takes about three-quarters of an hour each day to clean it and I wonder how many crocks I could wash in that time. Besides, little milk, few crocks, but the separator must be washed in any case. If M. G. B. will publish the name of the man who makes the separator that can be cleaned in less than five minutes, he will make the fortune of that manufacturer and receive the thanks of thousands of weary farmers' wives. I heartily approve of the hand separator as a money maker, but I know it adds much to the kitchen work.

On a farm a device which makes money is usually appreciated, even if it is not a labor saver, for the reason that the money made pays—or may and should provide for little extras which give enjoyment sufficient to compensate for the additional labor.

A couple of questions will be asked by "A. G.:"

I would like to ask a little advice, as I enjoy reading the different things that are asked and I think we all get the benefit of each other's questions, so I feel at liberty to ask. We keep a great many chickens and a few of them begin first to yell as though trying to crow or as though they had something in their throats. They keep that up for several days and then stretch their necks and gape as though choking. I first thought it was potato peelings I threw out to them and got fast in their windpipe. I caught the first hen and tried to examine her throat, but could not find anything lodged there, and now I see several beginning just the same, so I would like your advice. I would also like to ask any reader to tell me the signs of the zodiac. My grandmother was a German and I well remember her telling us and showing us by the signs of the zodiac when to plant flower and garden seeds, but that dear woman is gone and I was too young to remember. I've had radishes and potatoes all tops and I wish some German will read this, for I think they will understand.

About the zodiac, does anyone know what "A. G." wishes to learn? The knowledge will not help this season, anyhow, but knowledge will keep. The question about the chickens should be answered as soon as possible.

DRESSMAKING—No. 80.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

Simple dresses in blouse style are always pretty and always becoming to the younger girls. This one is made of white linen with trimming of rose color. It is finished in the Dutch style that is both comfortable and attractive and it includes the elbow sleeves that mean satisfaction during the warm weather. Linens are extremely fashionable and provided in so many weaves and widths that they suit many occasions, but batiste and lawn, gingham and chambray, cotton voile and, indeed, all the materials that are used for girls' dresses are appropriate for this one. For the wool dress that is desirable at all seasons shepherd's check made in this way with the trimming portion of plain colored taffeta would be exceedingly smart and the thinner washable materials can be trimmed with any preferred material. Flowered dimity with collar, cuffs and belt of plain lawn is exceedingly dainty.

The dress is made with blouse and skirt. The blouse is laid in one wide plait over each shoulder and is finished with a prettily-shaped yoke collar. The sleeves are made in one piece each, gathered into bands, and the skirt is straight. The dress is closed for its entire length at the back.

The quantity of material required for the medium size (10 years) is 6 yards 24 or 27, 4½ yards 32 or 3½ yards 44 inches wide with ¾ yard 27 for trimming.

The pattern 6634 is cut in sizes for girls of 6, 8, 10 and 12 years of age and will be mailed to any address by the

Fashion Department of this paper on receipt of ten cents. If in haste send an additional two-cent stamp for let-



[6634 Girl's Dress, 6 to 12 Years.]

ter postage which insures more prompt delivery. Do not send stamped envelope.)

Morning jackets that are made with peplums are favorites, for they mean snugness and becoming flare, as well as comfort. This one includes a square yoke, peplum and trimming of embroidery, but while such treatment means a charming effect with very little labor it is not necessary, for the entire jacket could be made of plain material and trimmed or finished in any way to suit the fancy. It is eminently simple and especially well adapted to washable materials, although it can be utilized for the challis, albatross and cashmere that many women like at all seasons of the year.

The jacket is made with the yoke, fronts and back. It can be either tucked or gathered at the upper edge and it is finished with a belt at the waist line and with a peplum below, and this peplum forms a pretty and be-



[6635 House Jacket with Yoke and Peplum, 32 to 40 Bust.]

coming point at the back. The sleeves are made in one piece each gathered into bands. When high neck is desired a standing collar or trimming can finish the neck edge.

The quantity of material required for the medium size is 2½ yards 24 or 27, 2½ yards 32 or 1½ yards 44 inches wide with 5 yards of embroidery 8½ inches wide, 2½ yards of heading to make as illustrated; 3½ yards 24 or 27, 2½ yards 32 or 1½ yards 44 inches wide if material is used throughout.

The pattern 6635 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

LIGHTNING RODS WITHOUT COST

Do you know that the leading insurance companies will make a great reduction in the cost of every insurance policy they write for you if your buildings are rodded with the

D. & S. SYSTEM OF LIGHTNING ROD CONSTRUCTION

You can easily save the cost of putting lightning rods on your buildings in this way. But remember that insurance men are wise to the fact that all work of this kind must be well done. They insist on the buildings being well protected with lightning rods. When so protected they make a reduction of from 10 to 33½ per cent. This they do if you buy your lightning rods from Dodd & Struthers, the originators of the pure Woven Copper Cable, which they own and control. Dodd & Struthers are the only lightning rod manufacturers that comply strictly with the requirements of the leading insurance companies—proof positive that our claims are well founded. Be sure you get our cable when rodding your house. All other parts, fixtures, weather-vane, seamless point; in fact everything that enters into our construction work is and always has been of the best material and workmanship. That's why insurance companies endorse us. They trust our rods, knowing that they have always given protection from lightning. Our agents are licensed by us. Ask the agent to show you the D. & S. Certificate of Authority. If they cannot produce such a certificate, they are not our agents. Beware of the man who is not willing to show his credentials. Good things always have poor imitations. Do not take chances on anything of such importance to life and property. Don't risk an imitation. Now is the time for action. This is the season of dangerous electrical storms. The D. & S. system gives protection. We want you to know all about us. Write us and we will tell you how to save insurance money. Fill out the coupon and send to us for Prof. West Dodd's book, "The Laws and Nature of Lightning." It's free to you. It gives good advice. If acted upon, the lives of your dear ones or your own may be saved, or loss of property prevented.

DODD & STRUTHERS
417 Sixth Avenue, Des Moines, Iowa.

Please mail without cost to me Prof. West Dodd's book, "The Laws and Nature of Lightning." Also tell me how to save money on insurance.

Name _____
Town _____
State _____
R. F. D. _____

PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair
Tennyson.

The International Sunday School Lesson

SECOND QUARTER.

Lesson XI.—Matt. XV., 21-28.

June 12, 1910

THE CANAANITISH WOMAN.

Jesus had a triple motive for this journey. There was an ill-advised popular movement to proclaim him king. Again, his preaching had attracted the attention of Herod Antipas, John Baptist's murderer. Finally, Jesus had irrevocably broken with the Pharisees, and they were planning his death.

Rest and refreshment were to be found in the locality Jesus visited. Two of nature's grandest features were there in juxtaposition—the sea and the mountain.

His retirement was only partially successful, however; for it is significantly said, "He could not be hid," and a heathen woman was the first to entreat his offices. This Syrophenician is the personification of parental solicitude. In her pathetic appeal she makes her daughter's malady her own.

It is a mistaken interpretation which affirms that the unusual conduct of Jesus toward this suppliant was intended to test her faith and exhibit her persistence. It undoubtedly had that effect, but this was incidental, not the main purpose of delay. His saying to his disciples explains his apparently unsympathetic bearing, "I am not sent but unto the lost sheep of the house of Israel." Forty times Jesus declares himself "sent." He will be true to the minutest directions of his Infinite Sender. God's "plan" for his Son confined his ministry to the Hebrew people. He was to be a "minister to the circumcision." He himself restricted the commission of the apostles to the Jews until his resurrection. The purpose was to form a hearthstone out of the Hebrew nation, on which a fire might be kindled, to whose warmth and cheer all the nations of earth might be invited.

To this "plan" Jesus faithfully adhered. He never crossed the boundary of the Holy Land, never worked a miracle on a Gentile.

He who had limited his disciples' commission to the Hebrews could not now go beyond them to work a miracle for this heathen, unless, to the complete satisfaction of the disciples, she could be shown to be an exception. Hence his silence, his discouraging announcement, "Am not sent," and finally those trying words in which he used the common discourteous epithet which Jews applied to Gentiles.

The suffering woman endured the ordeal. She proved herself a daughter of Abraham by her faith, and as such worthy of having the thing which she asked done for her.

The Teacher's Lantern.

It would have been a moral disaster of superlative proportions if the people had made Jesus king. The kingdom he had come to found was altogether different in kind and method from that which they proposed. This proposition was in effect a renewal of the temptation of the wilderness.

The proposition was premature. The people were not ripe or ready for his kingdom yet. This is plainly shown by the circumstance that when he discriminated between literal bread and spiritual food, showing how superior the latter was, and that it was in fact all that he had come to supply, there was a great recession in his following which included some of his disciples.

Jesus' discrimination between the religion of the letter and the religion of the spirit put him in peril of his life. He was hated because of his witness to the truth.

It is true yet, Jesus "can not be hid." Renan's wreaths of rhetoric and Strauss' blocks of argument fail to hide him. He is the conspicuous character of all history. Everybody must think something of him.

The Father has a "plan" for each of us, as he had for our "elder brother." He has a thought he wishes us to express in our lives. This gives us dignity. We are not dumb, driven cattle. Finding what God wants, and doing it,

is the ideal life. In this Jesus is our example.

Phillips Brooks once deprecated what he called the "passion of immediateness." The forcing of maturity—effort to reach ends without use of means—is to be reprehended, of course; but there is a good "passion of immediateness" also. Peter showed it when, sinking, he cried, "Lord, save!" The Syrophenician woman is also a striking example.

Faith was found in a most unlikely quarter. It was a "great" faith, too. This heathen apprehended the "wide-ness of God's mercy." The Messiah was not just barely enough for the Jews, but enough and to spare for all—children at the table, and dogs under it.

Beyond question it was Jesus' purpose to show his disciples, who were yet so completely fettered by tradition, an entirely new view of religion. He proposed to show them that even a heathen, whom they were ready to call a dog, could show a noble spirit and exercise a saving faith. It was worth the journey to Tyre to teach such a lesson.

"Truth! Lord, yet the dogs." Ruth-erford quaintly says, "Wisdom's scholars are not fools; grace is a witty and understanding spirit, ripe and sharp." Even a nimble-witted Greek could not have capped a question more cleverly.

This is almost the first ray of the moral sunrise which was so soon to break upon the whole so-called heathen world. The Jewish race could have no monopoly of it.

By subjecting eggs to an electric current a Rochester (N. Y.) man proposes to prevent them from growing stale when in cold storage. The theory is that eggs when placed in cold storage are alive and are gradually frozen to death, whereas it is alleged that if the life is destroyed by an electrical current before they are placed in storage they do not taste stale, even when kept on ice for a long period.

About Those
New Buildings
Mr. FarmerBuild them
of Concrete

There is no other one thing that causes you so much trouble as rats. It's money in your pocket to make your floors, cribs and barns rat proof—make them of Chicago "AA" Portland Cement.

They'll Be Rat-proof — Fire-proof — Repair-proof

The uses you can find for Chicago "AA" Portland Cement on your farm are almost without number. Silos, cribs, barns, dwellings, fence posts, floors, watering troughs are a few. No other building material is so cheap—no other building material is absolutely indestructible. There is as much difference in the quality of the various brands of portland cement as there is in horses, but there is only one quality brand—

Chicago "AA"
Port-land Cement

It never varies in fineness, color, composition and purity. Scientifically tested before leaving the mills—it is easy to work and

Makes the Most Economical Concrete

Farm buildings built of Chicago "AA" are better buildings because they are rat-proof, fire-proof, time-proof and cost less than wooden ones.

Write Today for Our
FREE Concrete Books

They tell you in plain, easy language without technicalities, how to plan and erect concrete structures, how to mix concrete, giving tables and rules for the amount of material required for any given piece of work. They're full of valuable information—yours for the asking.

Chicago Portland Cement Co., Chicago
Makers of "The Best That Can Be Made"



EARLY SEED CORN

FOR LATE PLANTING

"Queen of Nishna," yellow, Pride of the North, each 80 to 90-day varieties, \$2 per bushel, bags included. Also Iowa Silver Mine and Pride of Nishna, 100-day sorts, \$1.60 per bushel. Recleaned Cane Seed; Golden German Millet, Kafir Corn, Clean Alfalfa, Clover, Timothy and other grass seeds; Whopper-will Cowpeas; Stowell's Evergreen Sweet Corn for fodder. In fact, all kinds of farm and garden seeds. Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

"Goodhue Windmills are good mills!"

The arrow points to the motor parts, the "business end", of a Goodhue Pumping Windmill. Compare these parts with the corresponding parts of any other windmill made and you will quickly realize the greater strength and simplicity of the Goodhue. Strength and simplicity mean longer and better service, less liability to disorder, less repairs. It is a matter of record that the average

cost is only 4c a year

to keep a Goodhue Outfit in good working order! No other windmill can duplicate that record. A Goodhue Windmill Outfit will give you all the fresh water you want, where you want it, and when you want it, with no expense for fuel.

THE WIND BLOWS FREELY FOR ALL. NOT EVEN ROCKEFELLER CAN CORNER OUR BREEZES

You know that a gasoline engine that is large enough to be profitable in general farm work costs too much for fuel to be profitable in pumping water. You can buy a serviceable Goodhue Windmill Outfit for less money than it costs to run for five years the cheapest gasoline engine made, and after five years' use such an engine would be worn out and worthless. A Goodhue Windmill Outfit costs nothing to run, except a few cents a year for lubricating oil, gives no trouble, and will be just as strong and serviceable after five years use as the day it was erected, because for a nominal fee the Goodhue is

insured for five years

against cyclones, tornadoes, run-away teams—in fact against anything and everything except willful act and willful neglect, and it is THE ONLY WINDMILL MADE THAT IS SO INSURED.

Send us your name and address for a free copy of our book ABOUT GOODHUE WINDMILLS. It will give you more practical information about windmills and windmill towers than you can obtain from any other source—just the kind of facts you ought to know before buying a windmill. WRITE TODAY.

**APPLETON MFG. CO., 39 FARGO ST.
BATAVIA, ILL., U. S. A.**

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

June 21, Binford & Sons, Liscomb, Ia.
 June 28, Combination sale, Chicago, Ill.,
 S. B. Smith, Mgr., Springfield, Ill.
 Oct. 4, John Buckstead, Viborg, S. D.
 Oct. 25, Brenizer & McCullough, Broken
 Bow, Neb., sale at South Omaha.
 Oct. 26, P. D. Fuller, South Omaha, Neb.
 Dec. 6, Will C. Meyer, Carroll, Iowa.
 Dec. 14, C. A. Saunders, So. Omaha, Neb.
 Dec. 21, Ed Morgan, Kanaranz, Minn.
 Dec. 22, Walpole Bros., Rock Valley, Ia.

Aberdeen Angus Cattle.

June 29, Combination sale, Chicago, Ill.,
 S. B. Smith, Mgr., Springfield, Ill.
 Sept. 29, F. J. Nelson, Sheldon, Iowa.
 Oct. 4, Silas Igo, Indianola, Iowa.
 Oct. 5, White Bros., Perry, Iowa.
 Oct. 6, Joseph P. Cox, Boone, Iowa.
 Oct. 18, Christian-Lang Co., Omaha, Neb.
 Oct. 19, Chas. Escher & Son, Botna, Ia.
 Oct. 20, C. M. Russell, Carroll, Iowa.
 Oct. 25, Anderson & Son, Newell, Iowa.
 Oct. 26, Lakeside Farm, Storm Lake, Ia.

Hereford Cattle.

June 30, Combination sale, Chicago, Ill.,
 S. B. Smith, Mgr., Springfield, Ill.
 Oct. 20, Clore and Kinsell, Chariton, Ia.
 Nov. 23, Geo. R. Slocum, Sioux City, Ia.

Holstein-Friesian Cattle.

June 21-23, R. E. Haeger, Algonquin, Ill.
 June 28, Henry C. Glissman, So. Omaha,

Polled Durham Cattle.

Sept. 28, H. W. Deuker, Kalona, Iowa.
 Sept. 29, L. G. Shaver, Mgr., Kalona, Ia.

Red Polled Cattle.

June 23, J. C. Thompson, Jamaica, Iowa.

Duroc Jersey Swine.

Aug. 10, D. B. Johnson & Son, Mooresville, Ind.
 Aug. 11, M. A. Kraschel, Macon, Ill.
 Oct. 18, List Bros., Granville, Iowa.
 Oct. 19, James Williams, Marcus, Iowa.
 Oct. 20, Edmonds, Shade & Co., Kingsley, Iowa.
 Oct. 21, H. L. Cantine, Quimby, Iowa.
 Oct. 22, A. Lentz & Son, Pierson, Iowa.
 Oct. 25, W. M. Sells, Indianola, Iowa.
 Oct. 26, O. E. Osborn, Weston, Iowa.
 Oct. 28, I. H. Graham, Washta, Iowa.
 Oct. 29, T. J. Link, Winterset, Iowa.
 Nov. 10, C. L. McLaughlin, Panora, Ia.
 Jan. 3, John Goddard, Harlan, Iowa.
 Jan. 4, C. A. Rasmussen, Harlan, Iowa.
 Jan. 5, A. F. Hager, Avoca, Iowa.
 Jan. 23, E. W. Davis & Co., Glenwood, Mo.
 Jan. 24, J. E. Smith, Victor, Iowa.
 Jan. 30, A. Lentz & Son, Pierson, Iowa.
 Jan. 31, Edmonds, Shade & Co., Kingsley, Iowa.
 Feb. 1, H. L. Cantine, Quimby, Iowa.
 Feb. 2, James Williams, Marcus, Iowa.
 Feb. 3, List Bros., Granville, Iowa.
 Feb. 4, I. H. Graham, Washta, Iowa.

Poland China Swine.

Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
 Sept. 24, Pfander & Sons, Clarinda, Ia.
 Sept. 28, H. W. Miller, Peterson, Iowa.
 Oct. 5, J. M. Stewart, Ainsworth, Iowa.
 Oct. 6, W. H. Cooper, Hedrick, Iowa.
 Oct. 7, J. P. Wycoff, Highland, Iowa.
 Oct. 12, W. J. Crow, Webb, Iowa.
 Oct. 13, E. Gritters, Hull, Iowa.
 Oct. 28, Geo. Sifert, Lucas, Iowa.
 Jan. 18, Julius Stein, Bloomfield, Neb.
 Jan. 19, Jas. G. Long, Harlan, Iowa.
 Jan. 19, Robert A. Schug, Coleridge, Neb.
 Jan. 20, C. R. Adams, Laurel, Neb.
 Feb. 7, W. H. Cooper, Hedrick, Iowa.
 Feb. 8, W. J. Crow, Webb, Iowa.
 Feb. 9, E. Gritters, Hull, Iowa.
 Feb. 9, C. C. Polly, Whiting, Iowa.
 Feb. 10, James Cockerton, Whiting, Ia.
 Feb. 13, E. D. Keasy, Wiota, Iowa.
 Feb. 16, Theo. Martin, Bellevue, Iowa.
 Feb. 16, O. N. Remington Estate, Tekamah, Neb.
 Feb. 17, D. C. Lonergan, Florence, Neb.
 Feb. 18, W. E. Zimmerman, Neola, Iowa.
 Feb. 21, Pfander & Sons, Clarinda, Ia.

Percherons.

June 28, McMillan & Sons, Sioux City, Ia.
 Oct. 26, W. S. Corsa, Whitehall, Ill.

Mules.

Oct. 19, C. C. Judy, Tallula, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
 Carlos C. Palmer, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
 Fred V. Johnson (cattle and horse divisions), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 5701 Peoria St., Chicago, Ill.
 H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.
 A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
 J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Seward, Neb.
 A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
 E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
 C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Messrs. Williams Bros., of Villisca, Iowa, are offering good spring Poland China boars for sale on page 29.
 Registered Jerseys are advertised for sale by Messrs. E. S. & J. A. Buffum, of Le Roy, Decatur county, Iowa, on page 29 of this issue.
 Mr. R. M. Young, of Cook, Neb., announces on page 30 that he has for sale eight good Scotch-topped Short-horn bulls, one Percheron stallion and both

Duroc Jersey and Poland China hogs. He will be glad to quote prices.

Farmers should not buy binder twine without first getting into communication with Mr. August Post, of Moulton, Iowa, whose advertisement will be found on page 9.

Mr. D. H. Eyler, of Clarion, Iowa, advertises on page 15 that he has for sale good farms in the vicinity of his home town, at quite reasonable prices. Write him for descriptions.

Mr. M. Nelson, 476 Elizabeth St., Pierre, S. D., has for sale a splendid farm in Stanley county of that state, as advertised on page 15. He will make a bargain price on it to an early buyer.

Any farmer who has on his place black walnut trees or logs of twelve inches diameter or over, may dispose of the same at excellent prices to Mr. William O'Riley, of Camron, Ill. His advertisement will be found on page 9.

Hampshire bred sows and fall boars are offered for sale by Mr. Willie Essig, of Tipton, Ind. Mr. Essig has one of the good herds of the breed and will be pleased to give any of our readers interested in Hampshires prices and description of what he has to offer. Mention The Homestead when writing.

Information of interest to wool sellers is given somewhat in detail in the advertisement of the Mason City Hide and Fur Company on page 13 of this issue. This is a responsible concern which has long been in business. The highest market prices will be paid for wool. Additional information may be had by writing to the Mason City Hide and Fur Company, Mason City, Iowa.

The advertisement of Mr. T. W. Wilson, on page 15, gives some information with reference to an excellent farm in Alberta, Canada. This farm consists of 320 acres of well-improved land, two miles from a good market town. It will be sold at a sacrifice price to an immediate buyer. For this price or further description write to Mr. T. W. Wilson, 229 Spence St., Winnipeg, Can.

Farmers who are looking for good Iowa lands should read the advertisement of Messrs. Santee Bros. on page 15 of this issue. They have in particular two good half-section improved farms but a few miles from an excellent town in Osceola county. Note the highly-attractive prices they name in the advertisement, and for further particulars write to Messrs. Santee Bros., Cedar Falls, Iowa.

Mr. Julius Stein, of Bloomfield, Neb., breeds Poland China hogs and has sixty spring pigs. They are the get of Model's Wonder 51622 (sire Big Hadley's Model, dam Lady Wonder 6th), Long Price (sire Smooth Price) and Big Hadley's Model. Mr. Stein's hogs are of the large type and prolific character. This spring's crop of pigs possess a good deal of excellence and if nothing happens they will be heard from in a flattering way this fall.

A coat which will shed water in all kinds of weather is of the greatest usefulness, as well as a means of maintaining health. Such a coat is the Wilson weather coat as advertised on page 2 of this paper. It is sold at the low price of \$7 and under a trial of thirty days, when if it should not be exactly as represented it may be returned and money will be promptly refunded. The coat is made and sold by the Wilson Weather Coat Co., 45 Downer Place, Aurora, Ill.

Mr. Charles Gilmore, of Sioux Rapids, Iowa, breeds Short-horn cattle, having both straight Scotch and Scotch-topped sorts. He has just added to his herd ten excellent Duchess of Gloster females which give him a total of thirty head of pure Scotch cows and heifers. At the head of this herd he maintains one of the best sons of Ceremonious Archer. This bull is two years old, a low-down, thick-fleshed fellow with an excellent head and horn. He is a handsome strawberry roan in color. With a foundation of such material Mr. Gilmore's herd requires only care to make it develop into one of the good ones of the state. He has for sale a few good bulls ranging from ten to twelve months old. These are of both Scotch and Scotch-topped sorts.

A representative of The Homestead called on Mr. Ed A. Baxter, of Pawnee, Ill., recently. The pig crop is great this year. They are mostly by the great show and breeding boar, B. & C's Col., owned jointly by Messrs. Baxter and Comer, whose advertisement appears on page 28 of The Homestead. The writer saw a crackerjack litter by B. & C's Col. and one male pig of this litter is one of the very best pigs the writer ever saw. A gilt in same litter is also an extra good one and Mr. Baxter is figuring on winning the wagon at the Illinois State Fair this year for the best pair of pigs, any breed. If this pair of pigs come on (which they should do under this veteran breeder's care) they will be hard to beat and will prove B. & C's Col. as great a breeding boar as he is a show boar. Mr. Baxter's pigs are a fine bunch and growing like weeds. A litter by Crimson Wonder III. are hard to beat and some of those McNeil Model pigs surely come near being of the show type. Mr. Baxter is almost sold out of everything old enough to ship, but would price a few good male pigs by the above named boars. Mr. Baxter says Mr. Comer's pigs are also coming along fine. The stuff being fitted for show this year is good and some choice yearling sows are by B. & C's Col., while some extra good senior gilts are by Crimson Wonder III. A senior boar pig by Crimson Wonder III. is also a good one and B. & C's Col. looks like he was almost ready to step out in his former showyard bloom. If you need a good male pig by any of these great champion

boars write these gentlemen, kindly mentioning The Homestead.

Some extra choice Scotch and Scotch-topped Short-horn bulls are offered for sale by Mr. S. A. Bixler, of Corning, Iowa, and these are simply "corkers" for the price. If you want a good herd header you can buy one right of Mr. Bixler. Write him at once about these bulls. See page 30 for advertisement.

Mr. H. B. Richards, of Mallard, Iowa, announces in an advertisement on page 15 that because of ill health he is compelled to discontinue his farming operations. This calls for the sale of all his farm lands, which include four improved quarter sections, well located, in northern Iowa. The conditions make it essential that the gentleman make an early sale, and for that reason he will quote bargain prices on one or all of these farms.

Mr. Perry O. Brown, of Lamoni, Iowa, writes us as follows: "I just sold my yearling Scotch bull, Scotch Athene, last week to Mr. Fred T. Hughes, of Missouri Valley, Iowa, and I also have Royal Lavender, one of the best young Scotch bulls in the state, that I am offering for sale. Here is a great chance to buy a good young Scotch bull at a reasonable price. I have sixteen young calves that look good to me. Just tell Homestead readers to write or come and see me if they want either Scotch or Scotch-topped bulls." See page 30.

Mr. J. P. Peterson, of Herman, Neb., is strictly in it this season with 175 head of Duroc Jersey spring pigs. These are sired by Col. Chief, a son of the noted Proud Chief, Jumbo U. S., a son of Jumbo Critic (and he is one of the high-type Durocs). He also has pigs by Jumbo Critic, Fancy Critic and Proud Chief. Mr. Peterson will be at the Nebraska State Fair this fall with a bunch of boars and he will have a lot of them to offer the trade. He has a lot of good sows in the herd and they certainly have turned out the pigs for him this year. Remember Mr. Peterson when you want your boar this fall.

The champion Percheron stallion, Carnot, has taken finely to his work in the stud at Gregory Farm, Whitehall, Ill. Not only is Mr. Corsa breeding a strong band of his own mares to him, but at the present time there are some twenty-five top mares from all parts of the country at Gregory Farm awaiting service to Carnot. The annual sale of Percherons at this big breeding establishment will be held at Whitehall, Ill., on Wednesday, October 26th, and will include a large number of mares and fillies in foal to the champion. Full particulars regarding this sale will appear in these columns in due time.

Mr. J. M. Coleman, of Wayne, Neb., is an extensive breeder of large-sized Poland China hogs. He has this season a crop of 175 thrifty, growthy-looking pigs. Their lines of breeding are of great excellence, showing strong infusions of the blood of Chief Price 2d, Keep On, Surprise Tecumseh, Miller's Tecumseh and others of note. The dams of these pigs are daughters of such sires as Perfect Keep On, Nick Longworth, Monarch 2d and Spot Tecumseh. It will be noted that this herd contains not only pedigrees of a popular variety, but those which carry extreme size and growthiness as well.

Good Scotch Bulls for Sale.

Mr. W. H. McLaughlin, of Shelby, Iowa, is offering a very excellent young Scotch bulls for sale, and they are decidedly cheap, considering the quality. You can buy these bulls right if you order soon.

Have You Music in Your Soul?

"He who has no music in his soul is fit for treason," etc., was an expression of a good old poet years ago. The truth of the statement still stands. Today music may be had in every home at an almost insignificant cost through the use of the Victrola, the new style Victor, as made and sold by the Victor Talking Machine Co., 25th & Cooper Sts., Camden, N. J. The advertisement will be found on page 20 of this paper. Catalogs giving complete descriptions of the Victor machine and the Victor records, which are sold at from \$10 to \$250 each, may be had by writing to the address named.

The "Silver Strand."

The silver strand of prosperity that runs through the life of every man is not a matter of luck, but of good business principles well followed. It applies to every line of farm work and farm business. It applies equally as strongly to the protections that are afforded to the farmer and his buildings. In the list of dangers of loss incident to the farm is that which comes from lightning. It is a proven scientific fact that the danger of loss from lightning may be reduced to a very small per cent through the protection of buildings by lightning rods. A rod which is capable of carrying off a sufficient quantity of electric fluid to prevent damages by lightning is necessarily one of copper, pure copper, and so constructed as to furnish the largest possible amount of surface. A rod that answers this description is the Silver Strand pure copper cable lightning rod as made and sold by the Electra Lightning Rod Company, of Cresco, Iowa. This rod has been in the market for a good many years and it has proven its quality to such an eminent degree that unscrupulous manufacturers and competitors attempted to furnish a substitute for it. To prevent this substitution the manufacturers run a silver strand through all their rods, which stands at once as a trade mark and as a guarantee that it is the actual Silver Strand. A book which gives all the reasons why the Silver Strand stands in a class by itself as an absolute protection of life and property will be sent

free to those who write to the Electra Lightning Rod Company, 300 Market St., Cresco, Iowa, asking for the book and at the same time giving the name of hardware dealer.

350 Holsteins at Auction.

All who have not received a catalog of the R. E. Haeger Holstein sale to be held at Algonquin, Ill., on June 21st, 22d and 23d, should write for one at once. On the above date Mr. Haeger will sell 350 Holstein bulls, cows and heifers of the most fashionable breeding. Among them are cattle for the showman, cattle for the breeder who wants to improve his herd, cattle for the man who wants to found a herd and cattle for the farmer. Don't stay away from this sale expecting high prices, as the large number to be sold will insure many bargains to those who will attend this sale. The sale will be held at the farm near town and ample accommodations will be provided for all who attend this sale. See advertisement on page 30. Write for catalog, mentioning The Homestead.

The Willow Dell Herefords.

Mr. G. G. Clements, proprietor of the Willow Dell herd of Hereford cattle, is offering just now some very attractive propositions in the line of Hereford herd bulls. They are good, strong, well-grown bulls, sired for the most part by his famous show and breeding bull, Fast Freight. This bull in Mr. Clements' hands has proved to be one of the best sires used in that part of the state, and his breeding is of the kind that has been making Hereford history of recent years. Mr. Clements has always pursued a system of constructive breeding, raising better cattle each year, and insuring his customers that they are there given an opportunity to get something that will breed on. If you are in need of anything in this line it will pay you to get the prices on these herd bulls before buying. Full information may be had by addressing Mr. Clements at Ord, Neb., and mentioning The Homestead. See page 29.

Walter Hildwein's Poland Chinas.

Mr. Walter Hildwein, of Fairview, Kan., has one of the best herds of Poland Chinas to be found in his part of the country and at his next public sale, which he will make October 27th next, there will be given an opportunity for breeders and farmers to secure some of the stock that it has taken him twenty years to gather together. Mr. Hildwein has at the head of his herd Gold Standard by Chief Gold Dust. His dam is Lydia O. K. There are now about ninety pigs on the farm of spring farrow sired by this good boar and out of dams sired by Chief Look, Truant Boy's Rival by Truant Boy by old Corroctor, Imperial Chief, Missouri's Ideal, Longfellow, First Quality, Wonder Perfection and other sires of equal note. Further particulars concerning the offering to be made October 27th will appear in a later issue and in the meantime any information regarding his stock may be had by addressing as above and mentioning The Homestead.

The North-Robinson-Dean Company.

Among the great draft horse breeding and importing establishments, the one of North-Robinson-Dean Company, with offices at Grand Island, Neb., must be ranked among the first class. This great organization comprises the well-equipped offices and sales stables at Grand Island, the sales stables and fine breeding farm at Cairo, and the immense breeding farm at Bridgeport, all in Nebraska. The volume of business done by this firm has been steadily increasing until today they are doing a business that is equaled by few firms in this country. The business policy of the firm is such that "once a customer always a customer," and it takes that class of trade to make any firm long lived and responsible. Mr. W. C. Robinson, of this firm, is now in Europe buying horses for this season and expects to arrive home with an importation of about eighty head the first of July, consisting of Percheron, Belgian and English Shire stallions and mares. Watch these columns for full information concerning this shipment which will appear in a later issue, and in the meantime write these gentlemen for any information that you may desire, not forgetting to mention The Homestead.

Consider the Harvesting Machine.

Business men in commercial lines plan ahead for supplies of goods suited to the seasons in which the demand for those particular lines exist. The method is one which the farmer should follow as well. It is poor policy, bad business and expensive, too, to wait until the very minute a machine is needed before arranging for it. It is sound sense to begin now to think about harvesting machines, to examine into the merits of those in the market, and to determine just which machine is adapted to the work of any particular farm or crops. In taking up the subject a good deal of time will be saved by investigating the International Harvester Company line of machines. This includes the Deering, McCormick, Champion, Osborne, Milwaukee and Plano harvesters. These, in fact, represent the advancement that has been made in harvesting methods during the past half century. From the crudest grain-cutting device of the earliest machine, to the highly-perfected, labor-saving, profit-producing implement of today the course of improvement and perfection has been steadily advancing and has been made without regard to expense. It seems that there is no question but what the six machines mentioned cover the entire ground of the requirements of the farmer in the grain-raising belt. We would be glad to go into detail with reference to this

matter. However, as lack of space forbids this, we request those who are interested to write to dealers or to send direct to the International Harvester Co., of Chicago, for a catalog which will give them more information than we have at our command.

Glissman's Great Holstein-Friesian Sale.

On Tuesday, June 28th, at the sale pavilion in South Omaha, Neb., Mr. H. C. Glissman will make a public sale of 100 head of registered Holstein-Friesians. Mr. Glissman is possibly the best known breeder today in the West and his celebrated Rock Brook herd is known from coast to coast and from the gulf on the south to the Canadian border. He is selling 100 head in his forthcoming sale, seventy-five of which are cows and heifers in milk or soon fresh, and a number of these are in calf to the most noted Holstein-Friesian bulls in the state of New York. A great many of these cows and heifers are daughters of celebrated bulls themselves, and some are out of cows that were great record makers themselves. There is a grand, good lot of cows and heifers in this sale and it will be the greatest opportunity offered this summer in the West to buy registered Holstein-Friesian cattle. There will be twenty-five head of heifer calves in the sale and twenty-five head of young bulls. Dairy men and farmers who are wanting dairy cattle will find this the best Holstein-Friesian offering that will be sold in the West this summer. Mr. Glissman has issued one of the most complete and up-to-date catalogs that has ever been published, and it will be sent to all those who write for it and mention this paper. Don't put off writing for it, but do it at once, and then be sure to attend the sale. See page 26.

Powell's Short-horn Herd.

A representative of The Homestead recently visited the Short-horn herd of Messrs. H. H. Powell & Sons, of Linn Grove, Iowa. He was not a little surprised to find a herd containing forty-five head of splendidly-bred Scotch females. The entire herd includes something like sixty cattle. At the head of the herd stands Red Archer, one of the best sons of that noted show bull, Ceremonious Archer. Red Archer is very large, smoothly made and evenly fleshed. He has a fine head and horn and is of a rich red color. He is considered one of the best breeding bulls in the state of Iowa. Messrs. Powell have but recently added to this herd eight of the most fashionably-bred Duchess of Gloster cows to be found. Every one of these is an extra good one. Their pedigrees are without question, and individuality in perfect keeping. The herd also contains the noted cow, Miss Walpole, dam of the grand champion bull, King Cumberland. She now has a yearling heifer by Red Archer that is one of the best things the writer has seen this season, and an outstanding show prospect. She is red in color, square as a block and carries a coat of hair that is like silk. Barring an accident she will be seen at the Iowa State Fair this fall and it will certainly take a good one to beat her to the head of the class. Miss Walpole also has a five-months-old calf that is a second King Cumberland. He weighs 500 pounds at five months, and in the estimation of the writer is a better calf than his illustrious brother was at the same age. He also will make his appearance at the state fair this fall. See page 26 for advertisement.

Last Call for Lind's Short-horn Sale.

On the 16th of June Mr. N. A. Lind, of Rolfe, Iowa, as per announcement on page 27 of this issue, will hold his annual public sale of Scotch-bred Short-horn cattle. Fifty-two head are cataloged. All are young and in the very prime of their usefulness. There are forty females and twelve of these will be driven into the ring with calf at foot. Eight others are due to drop calves shortly after the sale. The remaining twenty heifers range in age from fourteen to twenty months and have not been bred. As has heretofore been stated these are an outstanding lot such as the writer has never before seen brought together for a sale consignment. They are mostly daughters of Mr. Lind's great herd bull, Sultan. Sultan is entitled to a great deal of consideration because of the splendid line of ancestry which he represents. His sire is Imp. Whitehall Sultan, an animal which, as the winner of the championship prizes of the greatest shows of America, attained unusual prominence and distinction. Sultan's dam was Imp. Sally 6th, she a daughter of the Campbell-bred Topsyman and tracing on both sides of her pedigree to some of the most highly-appreciated strains of Amos Cruickshank's breeding. These heifers on the side of their dams belong to the Victoria, Lavender, Miss Ramsden, Dorothy and Missie families. The matured cows have none of them reached an advanced age and they represent not only the tops of Mr. Lind's herd, but also the rarest specimens of the Short-horn breed. They are good cattle, not only on paper, but possess that excellence of individuality which recommends them to all experienced cattle men. For a number of years Mr. Lind was a careful buyer of the very best Short-horns offered for sale. His herd became established through the possession of just such animals. Today he stands very high in all respects, and the sale consignment is on a footing with those which remain in the herd. The bulls are sons of Victorious Archer, Sultan, Missie's Pride (he a son of Imp. Fancy's Pride), King of Fashion and Bertha's Pride. They belong to the Scotch Graceful, Dalmeny Nonpareil, Mayberry, Felicia, Sorrel, Myrtle and Mysie families. The lines of breeding represented are not

only popular, but highly valuable. They stand as the very foundation of the best Scotch blood. Catalogs may yet be obtained by addressing an immediate request to Mr. N. A. Lind, Rolfe, Iowa.

The Michigan Buggies.

Dealers everywhere keep the reliable Michigan line of buggies, as advertised on page 18. Catalog A, showing over 250 styles of Michigan buggies, may be had by writing to the Michigan Buggy Company, 218 Office Bldg., Kalamazoo, Mich.

Brookmont Herefords.

Those of our readers who want some good Hereford bulls or cows and heifers can buy them right at the famous Brookmont herd of Mr. A. E. Cook, of Odebolt, Iowa. He is making special prices on Herefords where they are taken in numbers. He will be pleased to have intending purchasers call and inspect the Herefords on Brookmont Farms. See page 29.

Farm Hoist and Wire Stretcher.

The Hall Mfg. Co. manufacture the Hall hoist and wire stretcher, a tool with which one man can lift the wagon box on and off the gear, where otherwise two would be required. By its effective wire stretcher with a self-locking, automatic-acting dog that holds every inch gained. It is durable and practically indispensable. It is sold at a low price by the Hall Mfg. Co., 410 Main St., Monticello, Iowa.

Why the Overland Sells.

The popularity of the Overland car is a question of general interest and discussion among the manufacturers of competitors of the Overland car. In matters of this sort the question of why a condition exists is not of so great importance to the buyer as the fact that it does exist. The fact is that the Overland is a car of beautiful proportions and symmetrical form, which at once attracts the eye. Its power is furnished by engines of the most approved type and high power producers. The other equipments which go to make it an ideal car are of a sort which will tend to make it a car beyond criticism. It rides smooth and easily; it has power enough to overcome any reasonable obstacle in the way of bad roads; its simplicity makes it desirable to those who are not accustomed to machinery, and its inexpensiveness in running completes the list of its valuable points. The buyer, however, who wants to know all about the why of it may procure this infor-

Winona, Minn., who would be glad to send to all interested a book which describes in full Sugarota calf meal and Sugarota dairy feed and is one of intense interest to both farmers and dairymen.

Shetland Ponies for Sale.

Eight head of Shetland ponies are offered for sale by Mr. H. W. Littleton, of Harlan, Iowa, on page 31. He is pricing these at from \$65 to \$125. He has a splendid black Shetland pony stallion for sale and a two-year-old Percheron stallion. When writing him about these kindly mention The Homestead.

Binder Eveners.

The necessity for an evenner which will distribute the work properly among all the horses on the binder is one which is scarcely appreciated. To do good work and not overwork any one or more horses on the binder requires such an evenner as is made and sold by the Heider Mfg. Co., Dept. 6, Carroll, Iowa, as advertised on page 18. Dealers everywhere sell them, but if your dealer should not happen to have them on hand, write at once to the address named.

Williamson's Polands and Polled Durhams.

One of the most enthusiastic Poland China breeders along the Missouri river is Mr. H. O. Williamson, of Herman, Neb. He breeds the strictly big-type Polands and he has that kind. His present herd boars are Dutch Pan 46784, a son of Combination Pan, and Grand Hadley 47414, a grandson of Big Hadley. He has fifty pigs by these boars, also one good litter by Big Victor. There are seven of these Big Victor pigs out of a Guy's Price dam. One good Grand Hadley litter is out of Victor Belle by Big Victor and one good litter out of Maud Wilkes, a daughter of Panama Pan. Another good litter by Grand Hadley is out of May Hadley, a daughter of Big Hadley, making the litter a line-bred Hadley litter and a good one. Zora Young, a daughter of Big Victor, has six good pigs by Dutch Pan and he has a splendid granddaughter of old Chief that is bred to the same boar for a fall litter. Mr. Williamson is going to have some good spring boars for the trade this fall and he also has a good fall boar on the place that he will sell any time. He also breeds Polled Durhams and he has fourteen head of females headed by Badger Boy, a well-bred Polled Durham bull that he recently purchased from

and was sixty-two years old at the time of his death. He leaves a wife and five children to mourn his loss. The Poland China breed lost one of its staunchest advocates when he passed away, and he will be mourned by all the breeders who knew him throughout the central West.

Good Aberdeen Angus Bulls for Sale.

If you want a good Angus bull and you want him worth the money we would call your attention to the advertisement of Mr. John H. Fitch, of Lake City, Iowa, on page 30. He has some strictly good ones of the leading families and he is pricing these where they will move. Just write Mr. Fitch about these bulls or go and see them and you will be sure to take a hull home with you.

A Popular School.

A commercial college which has established a national reputation for itself is that conducted at Quincy, Ill., by Prof. D. L. Musselman. It has been in existence for a great many years and since its organization its enrollment has exceeded 30,000 pupils, which is said to exceed that of any other commercial school in America. Information of interest to students may be learned by writing to Prof. D. L. Musselman, Lock Box 10, Quincy, Ill.

A Durable and Economical Paint.

The question of paint for farm buildings is one for serious consideration. There are so many paints of worthless character that it is worth while for our readers to investigate the merits of taroleum, as advertised on page 2, as a material for painting farm buildings. It is not only a paint, but a preservative of wood and iron, and in addition is an excellent disinfectant. See the prices quoted in the advertisement and write for free book giving free information, to the Omaha Gas Company, 1836 South 20th St., Omaha, Neb.

The Powers Short-horns.

Mr. Dan Powers, of Ulysses, Neb., has for sale just now eight good young Short-horn bulls. These bulls are of the most popular breeding and are thrifty and well grown. They are all good colors and come from good milking dams. It is generally conceded that bulls are going to be very scarce by the 4th of July, at which time most of the ranchmen turn their hulls with the herds, and we suggest that you lose no time in getting the full description and prices of these bulls before they are all taken. Mr. Powers' herd is open for inspection at any time and all inquiries will be very cheerfully answered. When writing Mr. Powers kindly mention The Homestead. See page 26 for advertisement.

Concrete Blocks for Farm Buildings.

The engraving in the advertisement of the Northwestern Steel & Iron Works on page 18 illustrates the possibilities of the use of concrete blocks in the construction of farm buildings. The advertisement referred to enumerates the different kinds of concrete machinery sold by the firm named, and also quotes prices. Machines are made for special purposes of making blocks to build silos, drain tile, well curbs, brick, water troughs and in fact all the different purposes for which concrete blocks are used. An illustrated catalog giving wholesale prices and complete descriptions may be secured without cost by writing to the Northwestern Steel & Iron Works, Box 816, Eau Claire, Wis.

Remington's Poland Chinas.

One of the best lots of spring and fall Poland Chinas that we have seen in our travels this summer was at the home of the late O. N. Remington, of Tekamah, Neb. The herd is in the hands of the estate and Mr. Remington's son is in active charge. He certainly has a grand good lot of pigs this season numbering fifty head of spring and about fifty of fall sows and boars. These are sired by Model Tecumseh, Ideal Tecumseh and Big Hadley's Model. They will not make a fall sale, but they will hold a winter sale on February 17th. They will have a splendid lot of boars for sale this summer and fall and they will be glad to have the breeders come and see the pigs. When writing them address the O. N. Remington Estate, Tekamah, Neb., and if you are on the market this year for a good boar pig they have them.

Meisner's Big Poland Chinas.

That very progressive breeder of big Poland Chinas, Mr. T. J. Meisner, of Sabetha, Kan., has at his well-equipped farm one of the truly great herds of northeastern Kansas. After considerable forethought and a goodly outlay of money Mr. Meisner secured the real good boar, Metal Choice, by Missouri Metal by Bell Metal, and to demonstrate that he made no mistake in the purchase of this high-class individual you will but need to see the splendid lot of pigs now at his farm by this sire. Among the great sows to be found here Junior Maid will probably have to be given first place. This beautiful sow will weigh 700 pounds and is a very prolific breeder. She was sired by Junior Chief and has for dam Perfect Maid. Another sow with splendid head, beautiful arched back and pleasing lines is Black Bess. She is sired by Chief Funston and out of that great mother, Queen Bess. Among the many other good ones are Polly Stout by Pawnee Chief, dam Plenty Good. Another is Goldie Hadley by Bid Hadley and out of Lady Gold Dust. This sow has a splendid litter that you will hear from. There are a number more by such sires as Pawnee Chief, Pilate Chief, Chief Funston and other noted sires. Mr. Meisner has but a few head of breeding stock now for sale, but

NEXT WEEK'S SALE PROGRAM

Tuesday, June 14 } Short-horns, Bellows Bros., Maryville, Mo.
Thursday, June 16 } Short-horns, N. A. Lind, Rolfe, Iowa.

mation by writing to the Willys-Overland Company, Toledo, Ohio, or Indianapolis, Ind., when an instructive book about automobiles will be forwarded free of charge.

Raising Skim-Milk Calves.

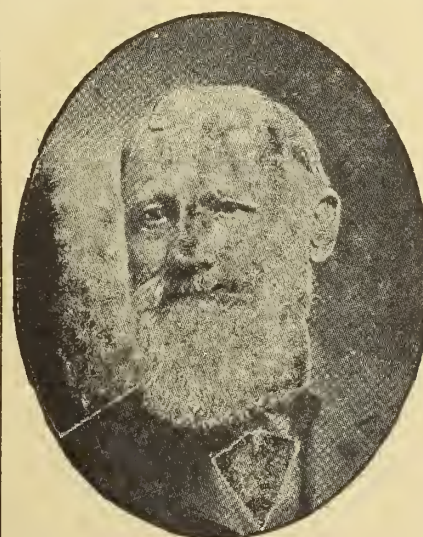
Those who have had experience in raising skim-milk calves have learned of course that some proper food must be employed to replace the elements taken out with the cream. Perhaps the best directions given for the preparation of such food are to take one pound of Sugarota calf meal and add to it just enough cold water to make a paste. To this paste add two quarts of boiling water and three pints of skimmed or separator milk. This will provide one gallon of Sugarota calf meal, equal in feeding value to one gallon of whole milk. Mr. Frank Luebecke, of Clyde, Mo., comments on this plan and writes with reference to the Sugarota calf meal, saying: "Sugarota calf meal is the best food for skim-milk calves I have ever tried. It makes them grow so that they look sleek and nice and just as good as calves that were sucking a cow." We have before us numerous other testimonials from farmers who have tried Sugarota calf meal, a few of which follow: Mr. J. W. Ferrell, manager Shady Lane Dairy Farm, Buchanan, Mich., writes as follows: "Have been feeding Sugarota calf meal for about five months and consider it when fed in connection with skim milk and clover hay the best feed I ever fed. No other grain is necessary when fed in this way." "I think your calf meal is very good," says Mr. W. H. Barker, of Passumpsic, N. H., "and you may send me another 100-pound bag as quick as you can." Mr. R. Young, manager Crystal Spring Farms, Laurel, Md., says: "I find your calf meal O. K., and am using it every day, and think it a great help and saving of milk. I am now feeding fifteen calves on it." This preparation is made and sold by the North-West Mills Co., 519 W. 3d St.,



Mr. F. S. Bunker, of Wisconsin. He also secured American Duchess, a splendid two-year-old heifer, from the same man. Later in the season he will be offering some good boars for sale and they will fill the expectation of Poland China breeders who are wanting the big-boned kind.

O. N. Remington Dead.

On May 27th, at his home at Tekamah, Neb., occurred the death of Mr. O. N. Remington, one of the pioneer Poland China breeders of the central West. For over a quarter of a century Mr. Remington has bred Poland Chinas in eastern Nebraska and he had built up one of the outstanding herds in the state. His herd came into prominence many years ago when he secured Ideal Tecumseh, one of the best breeding sons of old Chief Tecumseh 3d. Mr. Remington was one of the oldest



O. N. REMINGTON.

breeders in the West and a more reliable, conscientious and painstaking breeder never lived. His business dealings were above reproach and no man ever had cause to complain of anything he bought from his herd. Mr. Remington was born in Sweden in 1848

would be pleased to have anyone interested call and see his herd, including the material that he has reserved for his next fall sale which will be held at his farm near Sabetha, November 9, 1910. Further information concerning this offering will be found in a later issue of this paper and it will be to your interest to watch for it. When writing Mr. Meisner kindly mention The Homestead. See this page.

Auctioneering a Profitable Profession.

There is no profession or calling that offers more lucrative returns at the present time than does that of an auctioneer, and there is no profession in which there is more room for good men. In this calling, as in all others, it is the trained man who wins, and the prospective auctioneer who fits himself by a course at Jones' National School of Auctioneering and Oratory, 2856 Washington boulevard, Chicago, Ill., will have made the first step toward permanent success. The graduates of this school are now earning strong returns in all sections of the country, and just as much success awaits those who attend the school and give faithful attention to the course of instruction. The president of the institution, Col. Carey M. Jones, is one of the leading and most successful live stock auctioneers in the country, and he has surrounded himself with an equally competent and experienced corps of instructors in every branch of the work. The next term of this successful school will open July 24th and catalogs giving full particulars can be secured by addressing the manager, Mr. Orval A. Jones, 2856 Washington boulevard, Chicago, Ill., as per the advertisement on page 28.

Economy in Building.

The experience of the farmer who came to the West as a pioneer has been that there has been a continual demand for new buildings, and during later years much of the construction was made necessary because of decay in the old ones. The life of lumber that is exposed to the destructive influences of the elements is limited to a comparatively small number of years. Its use, therefore, in the long run, be considered expensive. It is constantly becoming more so because of the rapidly increasing cost of lumber. While the



use of lumber as a building material has certainly been an important element in the development of the great West, we now find ourselves entering upon an era that demands improvements of a more permanent character. The need is not now for mere protec-

tion from the elements, as it was in the formative period of our commonwealth. It is an insistent call for the construction which, in its substantial permanency, shall serve the purposes for generations. Such permanency involves a study of new material and the employment of those having known merit. This merit must not be based alone upon the lasting character of the material. Other points to be considered are original cost, the ease with which they adapt themselves to methods of construction, and the effective final accomplishment. Scientific investigation has established the fact that in its permanency of character Portland cement stands without a peer. Architects have turned their attention to the perfection of plans in which the full value of its use in practical construction and adaptation to ornamentation may be brought out. Mechanics



are learning more and more of the correct methods of mixture and use. One of the handsomest homes that have recently come to the notice of the writer was of concrete construction. Walls, porches, columns and floors were of that material. It was indeed a beautiful home, attractive because of its solid simplicity, yet with a strikingly substantial look that made it stand out more effectively than those of more pretentious build and ornamentation. Concrete made from Portland cement is also adapted to the building of barns, hog houses, chicken houses, cow stables, silos, water tanks, troughs, as well as to dozens of other purposes. Cement posts are becoming quite common and if made on the farm are quite as cheap as the best of wood posts. The farmer himself, with the ordinary farm help, may build practically all the items mentioned at his leisure time as well as the most expensive mechanics. Of course he must become familiar with the processes of mixture and use. But this information is easily acquired if the right source of information be procured. After a careful examination the writer is inclined to think that the most complete and dependable information is found in the book, "Concrete Construction About the Home and on the Farm," which is published by the Atlas Portland Cement Co., 111 Broad St., New York. In addition to detailed information given, the book also shows illustrations of hundreds of buildings and devices to be made from cement that add to both beauty and convenience of the farm. Any reader of The Homestead may secure a copy of the book free by writing to the address above given.

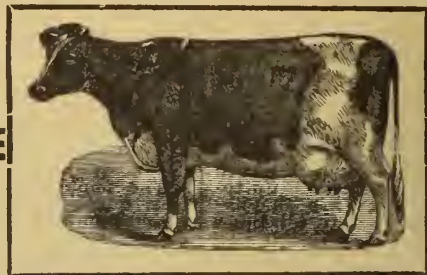
The Blinford Short-horn Sale.

The advertisement of the Short-horn sale which Messrs. Jesse Binford & Sons will hold at their farm near Liscomb, Iowa, on June 21st, will be found on page 29 of this issue. The sale consignment is a good one. It is good because the blood lines of the herd have been those which have attained the highest popularity on account of their beef-producing merit. Messrs. Binford have maintained at the head of their herd bulls of unquestioned breeding and high individual merit. They have looked to beef form and beef characteristics, and at the same time required an animal which would adapt itself to the ordinary farm conditions and not demand pampering or high feeding. There are few more practical breeding farms in the state of Iowa than that conducted by Messrs. Binford. They do not put on many frills, but they expect their cattle to pay a good profit on a reasonable amount of care and feed. Messrs. B. H. Hakes & Son, of Williamsburg, Iowa, contribute one two-year-old bull that is worthy of particular mention. This is Hilton Scotchman, placed No. 1 in the catalog. He is a son of Narcissus King and Narcissus King is a bull whose line of Cruickshank breeding can scarcely be exceeded by that of any other herd bull in Iowa or elsewhere. The dam of this young bull was Dainty Dorothy by Victor of Glenwood, and she traces but three moves away from the imported cow, Dainty Dame. On this side of the pedigree also there is a preponderance of Cruickshank breeding. A quite considerable proportion of the offering are the get of the herd bull, Wabun 162754. This bull belongs to the Orange Blossom family and his sire was Baron Kear. He proved a remarkably good producer and the animals of his get that go into this sale promise to be more than ordinarily useful to the buyers. Others in the herd will have been by Champion Chief 2d, Double Victor, Lavender Baron, Dainty Scotchman 6th, Golden Knight of Enterprise, Royal Knight, Bates' Hero, Princess Victor and Nokomis. A number of the females belong to the Dorothy family and have all the strong points of excellence usu-

100 REGISTERED HOLSTEINS

AT AUCTION

South Omaha, Neb., Tuesday, June 28th



Consisting of 50 Cows and Heifers

In milk or soon fresh; a number in calf to noted eastern bulls; 25 heifers and heifer calves; 25 bulls and bull calves. A high-class lot. Every animal tuberculin tested. Catalogs ready about June 15th.

ROCK BROOK FARM

Henry C. Glissman, Sta. B, Omaha, Neb.

Cols. R. E. Haeger, D. L. Perry, R. M. Adkins, Aucts.

ally presented by that tribe. Dainty Scotchman 6th, one of the sires named, will also be included in the sale. He is a four-year-old and is bred precisely the same as Hilton Scotchman, the Hakes' bull first referred to. He is a solid red in color, good all over, with an even formation and finish that will certainly make him an attractive individual on sale day. It is of more than usual interest that perhaps half of the females in this offering will sell with calves at foot. This is a remarkable situation and one which inures to the benefit of the buyer. Catalogs of the sale may be had by writing to Messrs. Jesse Binford & Sons, Liscomb, Iowa.

Nelson G. Krascchel, Auctioneer.

We desire to call the attention of the readers of The Homestead to the advertisement of Mr. Nelson G. Krascchel, of Harlan, Iowa, who now solicits the business of the live stock breeders of the central West. Mr. Krascchel is well known to the breeders of the corn-belt section, as well as those throughout the eastern states, and he stands today in the front rank of the younger auctioneers. Clean, capable, upright in all his dealings, he is a man whom it is a pleasure for us to recommend to the live stock breeders who are going to make sales this fall and winter. He is thoroughly posted on pedigree, a good talker and is thoroughly abreast of his subject when it comes to making a speech. His way of handling a sale has made him many friends among those who have employed him, and his work has been eminently satisfactory with those for whom he has made sales. He has a few open dates for the fall and winter and he will be pleased to get in touch with those who are thinking of holding sales. Mr. Krascchel will be at the swine breeders' meeting at Des Moines next week and will be glad to arrange dates with those who are wanting the services of a capable auctioneer. See advertisement on page 28.

The Sunset Short-horns.

Messrs. Fremont Watts & Son, of North Platte, Neb., proprietors of the Sunset herd of Short-horns, are offering at special sale just now some strictly choice bulls at very attractive prices. The offering must be seen to gain an adequate idea of their excellence and a perusal of the pedigrees will give you a still better impression of their true worth. It is doubtful if there are any breeders of Short-horns in this part of the country who have spent more years of careful, patient effort, as well as liberal outlays of money, in building a herd than has the senior member of this great firm. For sixty-five years he and his father occupied the homestead in Iowa and their unflagging zeal in the production of good Short-horn cattle has had a very potent influence for the good of the

TOO LATE TO CLASSIFY.

SPECIAL SALE OF HIGH-CLASS Short-horn Bulls

Six choice bulls of most fashionable breeding, sired by Signal by Great Scott, Robert Hampton by Imp. Merry Hampton and out of the best of Lavender dams. These bulls will be priced low for quick sale. Write us before buying.

FREMONT WATTS & SON, North Platte, Nebraska.

HELENDALE FARMS' GUERNSEYS

You have heard of them: Yeksa Sunbeam, Standard's Morning Glory, Penthesilia, Yeksarose and others of the Materna and Yeksa families. A small lot of bull calves and yearlings are on our new list just issued. The proper kind for the breeder and dairyman.

HELENDALE FARMS, 107 Wisconsin St., Milwaukee, Wis.

MEISNER'S BIG POLAND CHINAS

HERD headed by Metal Choice by Missouri's Metal by Bell Metal. Big-type sows by Big Hadley, Pawnee Chief, Nebraska Jumbo, etc. Fine lot of pigs now on hand. Inspection invited.

T. J. MEISNER SASEBETHA, KANSAS.

SHETLAND PONIES

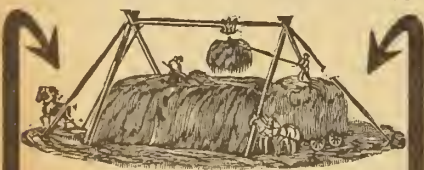
I HAVE one of the largest herds of registered ponies in the state, and now offer for sale some horse colts, but no mares. Send 2-cent stamp for pony postcards. F. P. Healy, Bedford, Iowa.

HIGH-CLASS SHORT-HORN BULLS

EIGHT good Short-horn bulls for sale, 12 to 14 months old. Good colors, good individuals and prices reasonable. Dan Powers, Ulysses, Neb.

breed over a wide territory. Few breeders have had a greater list of truly noteworthy bulls in use. Among these great sires might be mentioned the famous Imp. Merry Hampton, Sentinel by Baron Cruickshank, Great Scott by Imp. Scottish Hero, Imp. Royal

HAYING TOOLS



Wire Cable Field Outfits

GET MY PRICE

I save you half selling direct from my own big Waterloo factory

DON'T pay profits to a lot of middlemen, agents or dealers. I can furnish you with hay tools at half the prices they charge. Write me today for catalog telling all about my wonderfully low prices on

- Stackers**
4-Wheel Rakes
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Mowers
Loaders
Pressers
and a complete line of
Barn and Field Outfits

DON'T TAKE MY WORD FOR IT—get my catalog quick and compare my prices with others and judge for yourself.

Overshot Hay Stacker

Wm. Galloway, Pres.
WM. GALLOWAY COMPANY
107 Galloway St., Waterloo, Iowa

SHORT-HORNS AT THE LIND SALE

14—SCOTCH BULLS—14

MOSTLY SPLENDID SONS OF

SULTAN—BY THE CHAMPION WHITEHALL SULTAN



Sultan Favorite Grand Sultan Roan Sultan Royal Sultan Sultan

HERE ARE FOUR OF THEM AND THE OLD BULL HIMSELF

I also wish to call special attention to the get of my herd bull, Sultan, by Whitehall Sultan, as most of the young things in this sale are sired by him, and his calves on sale day will furnish the evidence of his worth as a sire. I dare say that there will not be another opportunity in a long time to bid on a better lot of young bulls sired by one sire as you will find in this sale. Most of them are show propositions and good enough to go into any herd of cattle in the United States. Their dams are by such famous sires as Lovat Star, Imp. Fancy's Pride, Bapton Victory, Red Robin, Choice Goods, Prince of Archers, Topsman, Prince Bishop, Morning Star and Highland Chief.

ROLFE, IOWA, JUNE 16TH

Next Thursday---Don't Forget!

MORE than 50 high quality young cows and heifers—all straight Scotch—daughters of Cherub of Ashburn, Pride of Scotland, Imp. Fancy's Pride, Scottish Victor, Magistrate 2d, Imp. Blackwatch, Rosebud Prince, Sultan, Count Commodore, Victor Brawith, Lord Missie, Sittyton Royal, Fearless Victor, Imp. Gay Lothario, Village Sultan, Lakewood Sultan, Claverburn's Ideal, Lavender Gloster, Pride of Fashion. All are of popular families and many from imported dams. It is a consignment unusually strong in its infusions of Cruickshank blood and that through the greatest of Cruickshank tribes. Quite a number of these cows sell with calf at foot by our grandly bred herd bulls, Sultan 227050, Village Sultan (by the same sire and out of a daughter of Best of Archers) or Imp. Clipper Czar 69739. Others are carrying calves to the service of the same bulls. Many of the younger things are genuine show prospects. Special attention is called to the heifers by Sultan, and the cows bred to him. Safeguard with every animal. Aucts.—Cols. Woods, Bellows and Jones.

N. A. LIND, ROLFE, IA.

Archer by Prince Charles and many others of great note. Among the bulls for sale the Lavender-bred yearling, Sunset Viceroy, is one that you should not lose sight of. He is a good, low-down, thick-fleshed fellow, of distinctly pleasing lines, smooth and well balanced, with a very attractive head and horns. He was got by the great Signal and has for dam 2d Lavender of Sunset, tracing to Imp. Lavender 31st by Barmpton. Another good one is Julia's Jack by Robert Hampton by Imp. Merry Hampton and has for dam Julia by Imp. Royal Archer. He is just about a year old and has great scale and is remarkably smooth. Gwynne's Best is also by Robert Hampton and out of Madam Gwynne, she by General Gwynne by Sentinel, second dam Lady White Stockings by Imp. Royal Archer. There are several more of similar breeding and general makeup that must be seen to be appreciated. Bulls are getting very scarce, more especially bulls of breeding and conformation that these bulls possess, and we would suggest that if you have not already made your purchases for this season that you lose no time in getting prices and descriptions of these bulls which may be had by addressing Messrs. Watts & Son as above, mentioning The Homestead. See page 26.

Last Call Bellows Bros.' Short-horn Sale.

The Bellows Bros. sale of Short-horn cattle, to be held at Parkdale Farm, near Maryville, Mo., on Tuesday, June 14th, should prove one of the most interesting events of the season. These gentlemen have for this sale listed the very best cattle they are able to produce. Former events have proved the Bellows Bros.' ability to produce good cattle and this offering demonstrates that they are truly cattle improvers. The fifty head have been chosen from their most profitable tribes and the beginner as well as the older breeder will find the blood lines throughout the Bellows Bros. herds and the offering are of the very best. We desire to again call attention to the bull consignment of ten head, from which the most discriminating buyer may select. Hampton's Model, an International junior champion, was considered the greatest bull the Bellows Bros. ever produced, but it is doubtful if he were the equal of Superb Goods, the Scotch Violet bull they have listed as Lot 2. Standard Goods, a superb roan; Royal Goods, a choice red; Merry Goods, a snow white youngster of outstanding promise, and four other sons of Good Choice and Best of Goods will afford an exceptional opportunity of securing sons of two of America's greater breeding bulls. Sultan Goods, a white tracing to the imported Cruickshank cow, Orange Blossom 19th, is a son of Chief Sultan and is a promising yearling. Hampton's Crown by Hampton's Successor, he by Hampton's Best, is a roan

fit to represent the rich line of ancestry through which he descends. Those who want good females will find that when buying of the Bellows Bros. they get good individuals, backed by ancestry that is of known value. The crosses in the pedigrees are such that none will find them faulty. The bulls to which these females are bred are as good as the Bellows Bros. can find. Good Choice and Best of Goods, the two sons of Choice Goods that head the herds, are represented by a large number of daughters and a large number of females bred to them. Fifteen calves at foot make the female end of this sale especially attractive. There are among those several bull calves that promise to make great herd bull propositions. The Bellows Bros. want you to come, spend the day at the farm, inspect the breeding herds and study the conditions under which cattle are raised. There is much to be learned at Parkdale Farm, as there is not today a more complete or productive farm in the country. Last year the 200 acres supported 100 head of cattle, the horses and swine, and some forty or more tons of hay were marketed and its pastures were never closely cropped. If you have not received a catalog, send for one; it is a most interesting booklet, with numerous illustrations of cattle to be sold and the herd bulls in service. See page 30 for advertisement.

Sale of Red Polled Cattle.

It is perhaps beyond contradiction that the prevailing sentiment among farmers at the present time is that good business action demands the taking advantage of the money-making possibilities of dairying—not as a specialty, but as a more important department of the general scheme of farm operations. It is a fact that the man with a small herd of cattle having some special adaptation to dairying is making a much greater profit than his brother farmer with an equal investment in cattle of indifferent dairying qualifications. In this connection, and of interest to the farmer who, while wishing to take advantage of the growing importance of the dairy industry, cannot feel satisfied with the exclusive dairy breeds of cattle, it is to the point to call attention to the strong claims of the Red Polled cattle as a dual-purpose breed. It is an undisputed fact that Red Polled cattle are the only ones which as a breed occupy this field. They are high-class dairy cattle and of excellent beef conformation. There never has been a time when their qualifications fitted as well and as profitably into the system of the farm as today. It is therefore an occasion of particular interest to enterprising readers of The Homestead which transpires at Jamaica, Iowa, on the 22d of June. This is nothing less than the actual dispersion of a herd of seventy head of

cattle of the breed. The herd was previously owned by Mr. Ed Dash, of Guthrie Center, Iowa, who successfully conducted it as a practical money-making herd. On account of ill health he was compelled to give up active work and disposed of the herd in its entirety to Mr. J. C. Thompson. An unlooked for turn in the affairs of this gentleman induces him to part with them. He selects the public auction as the plan of doing so. The important details of the sale are given in the advertisement on this page. A representative of The Homestead saw these cattle a few days since. With a full knowledge of western herds for many years past, he expresses a belief they are a really high-class lot of cattle worthy of the attention of every farmer or breeder, and certain money makers for any care-taking owner. Two herd bulls in particular should be carefully looked after. One is a mature fellow of excellent proportions and wonderful scale. The other has a record as a show winner at the Iowa State Fair. A dozen or more are of serviceable age. The females are a lot of splendid producers and heavy milkers that have been hand milked. All of suitable age have calf at foot or are safe in calf. Details of interest will be given in a later issue of The Homestead. Catalogs giving breeding and other important facts are now out. Apply for them to Mr. J. C. Thompson, Jamaica, Iowa.

PUBLIC SALE OF

RED POLLED CATTLE

ON FARM TWO MILES FROM

Jamaica, Iowa, Wednesday, June 22, '10

This is an absolute dispersion sale of the entire herd of registered Red Polled cattle until recently owned by Ed. Dosh, of Guthrie Center, Iowa. There are 53 cows and heifers (none over 6 years) and 17 bulls. This includes two herd bulls and a dozen others of serviceable age. All females of suitable age are bred and safe in calf. The older ones are regular breeders, that have been milked and are of proven merit in a dairy capacity. These cattle are of the large type of the breed. They sell right from pasture, and in only fair working form. They are the best money-making cattle for the farmer. For catalog, address

J. C. THOMPSON, JAMAICA, IOWA.

MEASURING HAY.

To the Editor of The Homestead:

Sometime ago I saw in your paper a rule for measuring hay in stack and would like to give you the one that is used out here. Hay men tell me that it is accurate and will weigh out over the scales. It is called the "government rule," because, as some people say, the government bought hay by it here in the West. But whether that be true or not, it is a good, accurate rule. Proceed thus: Measure over stack from ground to ground, then measure width, take width from over measure, half of what is left for height, then multiply length by height, and that product by width. Then, dividing by 422, the result will be the actual number of tons of hay in stack.

James Case.

The opening of a new creamery at West Plains, Mo., was made a gala day, 5,000 people being in attendance. It has a capacity of one-half million pounds of butter a year.

LIVE STOCK AUCTIONEERS.



121 Students in Attendance at January Term, 1910.

MISSOURI AUCTION SCHOOL LARGEST IN THE WORLD

AUGUST 1, 1910, is opening date at Trenton, Mo., for our next term. Additional instructors, selected from America's leading auctioneers, have been engaged to instruct and lecture during this term. No other profession paying better can be attained at ten times the expense and time, either legal, medical or otherwise, for those who will apply themselves. Our correspondence course is greatly appreciated by those who cannot attend personally. Illustrated catalogs of either course for the asking. W. M. B. CARPENTER, Pres., Trenton, Mo., or Oklahoma City, Okla.

The National Auctioneering School of America

ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

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Col. Carey M. Jones

THE President of Jones' National School of Auctioneering is one of America's leading Live Stock Auctioneers. While he gives the School his personal attention and instruction he is only one of fourteen instructors and lecturers of national reputation employed for the coming term of five weeks opening July 25, 1910. Actual practice required at the school before diplomas are given. For catalog and information address

ORVAL A. JONES, Manager, 2856-2858 Washington Blvd., Chicago, Ill.

R. W. Mitchell, Albany, Mo.

Live Stock and Real Estate AUCTIONEER

EIGHTEEN years' experience. Write me for dates. Copies of my live stock poems free when stamp is enclosed. Am booking fall, winter and spring dates.

N. G. Kraschel HARLAN, IOWA. Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.

GEO. B. BUCK

AUCTIONEER AND EXPERT JUDGE. Have judged at Illinois and Iowa State Fairs. Have sold for the best breeders of the central West the past three years and have them rebooked. Posted on pedigrees and values. Sales made anywhere. Terms \$20 and expenses. I always deliver the goods. Write me for dates at Sunny Hill, Ill.

LIVE STOCK AUCTIONEER SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed. W. F. STRATTON, CAMBRIDGE, IOWA, Breeder Short-horn cattle and Duroc Jersey swine.

CAREY M. JONES LIVE STOCK AUCTIONEER 2856 Washington Blvd., CHICAGO, ILL. Phone West 1228.

Geo. W. Dykes Live Stock Auctioneer, DANA, ILL.

Geo. P. Bellows AUCTIONEER Pedigreed Live Stock Maryville - Mo.

A. C. Manifold Auctioneer Turkey, Mo. Pure bred sales specialty

T. H. O. MARTIN Live Stock Auctioneer, Bellevue, Iowa.

W. D. STOLLER, Auctioneer Live Stock a specialty. Address R. 6, Vinton, Ia.

HOG RAISERS, ATTENTION!

Is it worth 4 cents per head per year to have your hogs free from lice and other profit-eating parasites? Send me your name and let me tell you how my RUBBING POST will do this. Cheapest and most effective method in use. No labor required. Works the year round. Not dangerous to heavy brood sows. Write for price and description.

S. B. WASSON, 413 S. Washington Street, PEORIA, ILLINOIS.

LIVE STOCK AUCTIONEERS.



FRED REPERT, DECATUR, IND. Live Stock Auctioneer.

Cattle Sales a Specialty Write for Dates and Terms.

J. L. McILRATH GRINNELL, IOWA.

Live Stock Auctioneer Breeder of registered Belgian horses. Ask my customers. Write me.

C. G. EVANS North English, Iowa. Live Stock AUCTIONEER

SALES made anywhere. Reasonable terms. Have pleased others; can please you. Write for Dates.



Col. C. W. Smith LIVE STOCK AUCTIONEER

POSTED on breeds and values. A live wire on block or on the ring. Make your next date with me. Terms reasonable.

FAIRBURY, NEBRASKA.



PLINY NICHOLS WEST LIBERTY, IOWA. Live Stock Auctioneer

SALES made anywhere. Reasonable terms. I also breed Poland Chinas and Short-horns.

H. L. Igleheart

Elizabethtown, Kentucky Live Stock Auctioneer

CATTLE AND HOG SALES A SPECIALTY WRITE FOR DATES AND TERMS.

ELWOOD J. PITTMAN STERLING, ILLINOIS. Fifteen years' experience selling live stock.

Write for Terms and Dates.



O. L. MOSSMAN, MASON CITY, IA. LIVE STOCK AUCTIONEER Thoroughly posted as to pedigrees and values. Write for dates. Terms reasonable.

W. K. HENSS, WAYLAND, IA. LIVE STOCK AUCTIONEER. YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

LIVE STOCK ARTISTS. A. V. LOCK, REMINGTON, INDIANA. Live Stock Artist. Write me.

CHESTER WHITE SWINE.



CHOICE FALL BOARS FOR SALE

THEY are of the same prize-winning blood as those with which I won 141 prizes at five big state fairs of 1909. Low prices to quick buyers, as I must make room for the spring crop. D. H. LEWIS, GENESEO, ILL.



CHESTER WHITE FALL BOARS

I HAVE a few choice fall boars, old enough for service, and will quote low prices on them. Sows and gilts are all sold. S. J. PHILSON, Route 6, Harlan, Iowa.

35 CHESTER WHITE BOARS AND SOWS

FOR SALE—Extra good ones, sired by Buster 19085. A son of Combination out of daughters of the noted prize winner, Modeller. Prices reasonable. John F. Holst, Jr., Denison, Iowa.

O. I. C. WHITES. Sept., Feb., Mar., April boars. Gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Ruebush, Sciota, Ill.

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. E. J. Trumbauer, St. Charles, Iowa

DUROC JERSEY SWINE.

DUROC JERSEY BRED SOWS FOR SALE

I AM offering about 10 sows for sale bred for fall litter to my noted sweepstakes boar, Crimson Wonder Again, and Model Chief 8th. These are daughters of H. A.'s Choice Goods, Perfection Chief and Crimson Wonder Again. Also two fall boars for sale, sired by Crimson Wonder Again. Write me at once. Address H. S. ALLEN, RUSSELL, IOWA.

30 Duroc Gilts 30

Summer and fall farrow. Sired by G. C.'s Kan. Col. Bred to son of King of Cols. II. and W. L. A.'s Choice Goods dam, few to Nebraska Wonder, Crimson Wonder's best son. Also fall boars, same breeding.

CHAPIN & NORDSTRUM, Green, Kan.

ZIMMERMAN & KAYS McNABB, ILLINOIS.

BREEDERS OF DUROC JERSEY SWINE

100 SPRING pigs; two litters by Defender, one litter by Golden Model II.; others by King's Col., S. E.'s Model, J. I. C., Col. Stoner, Ems Inventor and others. Orders booked. Stock always for sale. Please mention The Homestead.

DUROC JERSEYS

Thirty fall boars and ten gilts sired by Col.'s King, dams by Arthur's Choice, Proud Advance, Inventor, Commodore and Tokio Paul. Would also sell Arthur's Choice, the pig that cleaned the first prizes at the Illinois State Fair, 1907. This stuff is growthy, but not fat. Arthur L. Parks, Leland, Ill.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

COL. J. CASTEEL Offers Fall Boars

Ten fall males ready for service, by Champion Paul II. Dams of choice breeding. Will price them worth the money if ordered at once.

COL. JAY CASTEEL, Cambridge, Ill.

For Sale--12 Extra Choice Fall Boars

If you need an extra good Duroc boar we have them by Manley Orion's Son by Manley Orion, dam by Keep On II. These pigs are out of dams by Educator, Champion Paul and others. Will be priced worth the money and are fit for immediate service. Address GEO. L. MILLER, COAL VALLEY, ILL. Care of Buck & Miller.

Real Reds to "Show You"

OUR crop of spring boars (sows are all reserved) carry the blood of King of Cols., Ohio Chief, Model Chief, etc., through strains of prize winners. They are right. Orders booked now. E. W. Davis & Co., Glenwood, Missouri.

DUROC JERSEY BOARS

I HAVE four splendid fall boars for sale, sired by Iowa Model and out of Missouri Girl II.; long, wide and heavy-boned fellows. Also booking orders for spring boars. Prices, \$25 to \$50. Address MARK W. EDDY, FONTANELLE, IOWA.

MIDLAND Herd Duroc Jerseys. Bred sows all sold. Yearling boar for sale. Orders booked for spring pigs, July delivery. S. J. Butts, Mason City, Ia.

DUROC JERSEY SWINE.

MODEL WONDER Fall Boars For Sale

We have a few very choice fall boars for sale. One herd header of much quality out of Chief's Jewel, champion sow Iowa State Fair, 1909. Others out of Proud Advance and Top Notcher Again dams. For prices and description address

HANKS & BISHOP, NEW LONDON - IOWA.

HIGH CLASS DUROC JERSEY BOARS

I have five September boars sired by the sweepstakes boar, Crimson Wonder Again, and out of H. A.'s Queen for sale that are sensational herd boar propositions. Also a number of other good boars. Write or come and see me. W. M. SELLS, INDIANOLA, IOWA.

Helen's Chief High Notcher

and Glad Col. head my herd of Durocs. Write for what you want.

M. A. KRASCHEL, MACON, ILLINOIS.

Fall Males and Gilts FOR SALE

Sired by Defender and others out of the dam of Defender. Prices reasonable for such breeding and stuff of much quality. Mention The Homestead. FRED BROWN, LOAMI, ILLINOIS.

20 Duroc Boars 20

Got by King of Cols. II. and G. C.'s Col. Dams are Model Chief Again sows. All are good, of summer and fall 1909 farrow. Spring pigs doing fine. Address

FRANK ELDER, GREEN, KANSAS.

Do You Need a Boar

I HAVE good ones by S. E.'s Model 80743 by Model Chief, dam by Advancer. The dams of these boars are by Keep On III., Proud Advance and others equally as good. These males have quality and some are fit to go into the best herds in the land. Will price them cheap. My spring pigs are extra good, and of the best breeding. Write me or come and see. Please mention The Homestead. S. E. EAKLE, PROPHETSTOWN, ILL.

FALL BOARS FOR SALE

BY O. & L. 52341, a line bred Col. and Protection boar of show yard quality; dams by Buddy K. IV. and Ambition. A few fall gilts, either open or will breed them. Also have 3 Scotch-topped Double Standard Polled Durham bulls for sale. Please mention The Homestead. Address MENAUGH BROS. - MAZON, ILLINOIS.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA. Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY. Write Your Wants.

FOR SALE 10 FALL DUROC MALES

By Rose Chief by Belle's Chief by Ohio Chief, dams of Proud Advance and Pilot Wonder breeding. These males are ready for service and the prices are right. Write for prices and description, mentioning The Homestead. W. A. FELL, CAMBRIDGE, ILLINOIS.

HUFF'S DUROCS

HUFF'S Advance, Brighton Wonder, Buddy's Improver. A few choice September boars for sale. The "Always Better Kind." C. W. HUFF - MONDAMIN, IOWA.

FOR SALE—20 FALL SOWS Bred to the champions, B. & C.'s Col. and Crimson Wonder III. They are sired by B. & C.'s Col., Col. S. and McNeil's Model. Price \$50 to \$65. First come, first served. Address {Ed. A. Baxter, Pawnee, Illinois. R. L. Comer, Carlinville, Illinois.

HAMPSHIRE SWINE.

MAPLE LEAF HERD OF HAMPSHIRE



My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

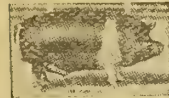
A. L. GOODENOUGH, MORRISON, ILLINOIS.

Blue Ribbon Hampshires

We bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. R. L. BOLLMAN, COAL VALLEY, ILL.



WAYSIDE HAMPSHIRE



We bred the load of barrows that won first in class over all breeds at 1905 International. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead. MIKE SHARP - COAL VALLEY, ILL.

STONE STOCK FARM HAMPSHIRE

My herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.



Hampshire Pigs

I AM now booking orders for spring pigs—male and female—and will begin to ship about June 1st. They are by four different sires and represent the strains with which I won championships on pen of barrows at the International show of 1909.



JOHN GOODWINE, POTOMAC, ILL.

HAMPSHIRE Swine

We have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.

When writing mention this paper.

Hampshire Swine

A good lot of March and April pigs for sale, from fashionable families.

Write

GEO. LIPPERT, MACNOLIA, ILL.

25 Head of Spring Boars
5 Head of Yearling Boars

All good ones and guaranteed breeders.

Prices reasonable.

H. D. DeKALB - DeKALB, IOWA.

When writing mention this paper.

POLAND CHINA SWINE.

McINTYRE'S BIG-BONED POLAND CHINAS

SPRING yearling sows bred for June and July farrow; tried sows bred for August and September. A few yearling boars; 50 choice September, 1909, boars and gilts, and boars and gilts of March and April, 1910, farrow, to be delivered at 3 to 5 months old. Blood of P. W. Giant, Hadley, Jumbo and Victor. Foundation stuff or new blood.

F. W. McINTYRE, Route 5, RED OAK, IOWA.

BIG-TYPE POLAND CHINAS With Big-Type Blood Lines

SIXTY head of bred sows averaged \$66.87 at our last sale, supreme evidence of the kind we breed and sell. Our herd is made up of the most noted animals of the type and breed. Spring pigs of either sex by Big Ex. (the 1,070-pound son of Pawnee Chief), Superior Look (a great son of Grand Look), and Chief Price (the big yearling with a 10-inch bone), a trio of boars with few equals in the corn belt. Write for special prices on small herds not akin.

W. H. COOPER - HEDRICK, IOWA.

WILLIAMS BROS.' POLAND CHINAS

THE LARGE TYPE, WITH QUALITY COMBINED. 275 SPRING BOARS AND GILTS, and a number of fall boars for sale. These are sired by W.'s Major 45234, Young Look 47722, Pawnee Price 47721 and Villisca Chief. SPECIAL PRICES. We are offering spring boar pigs and gilts at \$25 each, and we guarantee satisfaction. Also some extra choice fall boars. WILLIAMS BROS. - VILLISCA, IOWA.

12 Fall Boars--25 Spring Boars

I AM offering a splendid lot of big-type, big-boned fall and spring boars for sale, sired by B. Wonder, A. Wonder, Orange King and Big Ex. Address J. G. LONG - HARIAN, IOWA.

FALL BOARS FOR SALE

I am now offering some splendid fall boars for sale sired by my noted show and breeding boar Big Victor and out of my best sows. Address, D. C. LONERGAN, Florence, Nebraska.

32 FALL BOARS

I HAVE 32 excellent fall boars for sale, sired by Big Jerico and Model Chief out of my largest big-type sows. These are big-boned fellows. Also spring boars for sale. Address CHAS. W. HUMERICK, ATLANTIC, IOWA.

YORKSHIRE SWINE.

LARGE YORKSHIRES
Champion Herd of U. S.

For Sale Now—Over 600 pure-bred pigs, farrowed since March 6th; also a few gilts of spring and fall, 1909, bred for litters this coming fall. Address Thos. H. Canfield, Box 7, Lake Park, Minn.

HOLSTEIN-FRIESIAN CATTLE.

MAPLE LANE Holsteins

EIGHTY HEAD IN HERD. WE GUARANTEE OUR STOCK. T. J. BARMORE, MONROE, WISCONSIN.

WANTED 2 thoroughbred Holstein bull calves from A. R. O. herd. The Springdale Stock Ranch, Concordia, Kansas.

BINFORD'S

SHORT-HORN SALE

ON HOME FARM NEAR

LISCOMB, IOWA, TUESDAY, JUNE 21ST

45 HEAD OF GOOD CATTLE

ARE cataloged for this sale; 35 of them are cows and heifers; all but 3 or 4 of breeding age; more than half of them with calf at foot and most of these bred again. Some are Scotch, of the Louisa and Dorothy families, and the others Scotch-topped Young Marys, Filberts, Garlands, etc. Some extra good Scotch bulls go; among them our young herd bull, Golden King, and a good one contributed by W. R. Hakes. These cattle are in excellent breeding form, though not in high flesh. They are producers of the money-making sort. Catalogs are now ready.

JESSE BINFORD & SONS, LISCOMB, IOWA.

Col. Geo. P. Bellows, Auctioneer.

HOLSTEIN-FRIESIAN CATTLE.

LARGEST HOLSTEIN AUCTION

EVER held, June 21, 22, 23, 1910. Over 400 head Peaches and Cream, bred direct from the world's champions. For information, watch The Homestead or write R. E. Haeger, Algonquin, Ill.

HIGH GRADE HOLSTEINS

COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want. RIVERSIDE STOCK YARDS, Algonquin, Ill.

MONONA FARM HERD

OF pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

F. W. ALLEN, MADISON, WISCONSIN.

HOLSTEINS LAKE MILLS, WIS.

300 HEAD. A few grandsons of Hengerveld De Kol to offer from A. R. O. dams. High grades in carload lots that show quality and breeding. Barn a few rods from C. & N. W. Ry. WM. EVERSON & SONS.

HOLSTEIN

Cows and heifers any age.

Bulls fit for service.

W. R. Gates, Port Atkinson, Wisconsin.

WANTED 10 thoroughbred heifer calves from A. R. O. herd. The Springdale Stock Ranch, Concordia, Kan.

GUERNSEY CATTLE.

SUNNY VALLEY GUERNSEYS

Males and Females for Sale WRITE TODAY.

W. M. JONES, WAUKESHA, WIS.

GUERNSEYS

FOR SALE—I am overstocked and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the Island. Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

WAUKESHA GUERNSEYS

Bred for Production. Ninety Head in Herd.

A. W. and F. E. Fox, Waukesha, Wis.

Brook Hill Farm
PURE-BRED GUERNSEYS

A FEW YOUNG BULLS FOR SALE.

SEND FOR SALE LIST.

David W. Williams, Supt.

GENESEE DEPOT. - WISCONSIN.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 9356, a son of Stranford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale. Ben Clark & Son, R. 1, Whitewater, Wis.

FOR SALE Two registered Guernsey bull calves, thirteen and seven months old. M. T. Love, Garner, Iowa.

HEREFORD CATTLE.

Brookmont Herefords



IMP. MARCH ON 76035, Father of All March Ons, now in Brookmont Herd.

CHOICE YOUNG HEIFERS

with calf at foot are a special offering just now. We also have a superior lot of bulls, ten months to two years old, excellent in breeding, individuality and type. You can have them at just about your own price.

A. E. COOK, Odebolt, Ia.

Polled Herefords

WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low.

Just try us once.

Warren Gamman & Son, Des Moines, Iowa.

Originators of Polled Herefords.

HEREFORD BULLS

I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address

A. F. HAGER, AVOCA, IA.

Polled HEREFORDS

THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

J. W. WYANT, BLYTHEDALE, MISSOURI

Hereford Herd Bulls

A FEW good bulls of herd header build, from 14 to 20 months old; very best of blood lines; good individuals and priced to sell. Write me before buying.

G. G. Clements, Ord, Nebraska.

POLLED HEREFORDS

OF both sexes. One herd bull and some horned cows bred to Success 4th, one of the best bulls of the breed. W. H. Campbell, Grand River, Ia.

HEREFORD Cattle

GOOD young cattle, bulls or heifers, for sale. Herd headed by Improver's Hesiod 107727. Blood lines of popular strains.

D. S. O'LEARY - IOWA CITY, IOWA.

AYRSHIRE CATTLE.

Ayrshire Cattle

Some of the best young things we have ever offered. They are bred at the top.

FRED TSCHUDY, MONROE, WISCONSIN.

LAST CALL

BELLOWS BROS. ANNUAL SALE

GOOD SHORT-HORNS

In Issuing This, the Last Call for Our Annual Sale, to Be Held at the Farm Adjoining Town, On

TUESDAY, JUNE 14TH

WE wish to extend a cordial invitation to all lovers of GOOD CATTLE to be our guests at Hotel Linville. If possible, come the day before the sale, so as to have ample time to inspect not only the sale offering, but also the stock bulls and breeding herd. So far as known, we have never had a disappointed visitor or customer at our former sales, and we have selected this offering with the same care to insure reliable breeding stock. This offering includes several high-class bulls and show prospects of both sexes. Remember the date, June 14, 1910.

Bellows Bros., Maryville, Mo.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the allied herds of P. J., M. H. and Mike Donohoe, of Holbrook, Iowa, and C. P. Leahy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42058 heads the herd. The following families are represented: Prides, Blackbirds, Ericas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thickset Blackbird. 10 young bulls by Glenfoit Thickset, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfoit Thickset, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Herdsman.

INVERNESS ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equatize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, IOWA CITY, IOWA.

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by imported ideal of Stranden 25158 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. 1. & P. R. Wilkinson & Sons, Mitchellville, Ia.

ABERDEEN ANGUS BULLS I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equestrian; also a few choice cows and heifers. Prices reasonable. WILL L. COLEMAN, CORNING, IOWA.

Aberdeen Angus Bulls for Sale I HAVE a splendid 2-year-old Trojan Erica, a 2-year-old Blackbird and Pride bull. Also Queen Mothers and several younger bulls at bed rock prices. John H. Fitch, Lake City, Iowa.

ANGUS BULLS, COWS and HEIFERS THREE bulls for sale; also three bull calves, dropped last August and Sept. They are sired by top bulls and out of one of the best cow herds in the state. My cattle have size, breeding, quality. Call on or address A. G. Messer, Grundy Center, Ia.

FOR SALE--A GOOD 18-MONTHS-OLD ANGUS BULL Priced reasonable. R. J. Kidson, Pontoonac, Illinois.

HIGH-CLASS ANGUS BULLS FOR SALE OF the popular strains, sired by Black King of Home Dale, Blackbirds, Prides, Queen Mothers, Gilt Ericas and Heatherblooms. Our prices are right. If in need of a bull, come and see us or write. ISENBARGER BROS., Battle Creek, Iowa.

ALFALFA HERD ABERDEEN ANGUS Ericas, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

SHORT-HORN CATTLE.

A FEW CHOICE SCOTCH SHORT-HORN BULLS For Sale I. Barr & Son, Davenport, Ia.

GEO. H. WHITE, EMERSON, IOWA, Breeder of High-Class Short-horns. HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address GEO. H. WHITE, EMERSON, IOWA.

50 Short-horn Bulls for Sale SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

MILKING SHORT-HORNS YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk, or weigh in the milk for the herd. BLACKMER & NELSON, Albert Lea, Minn. Farms 1 and 2 miles from town.

Plain View Short-horns A FEW good red bulls, some just over a year, healthy and thrifty, but not over fat, at farmers' prices if taken soon. All by good Scotch bulls. GEORGE A. HANS, NEWTON, IOWA.

A Scotch Herd Header For Sale DARK red, by Imp. Kieullar Stamp and out of Imp. Lady Belle 7th, 17 months old. Also several younger bulls that will soon be a year old. T. A. DAVENPORT, BELMOND, IOWA.

Robt. E. Haeger's FIFTH ANNUAL AUCTION

350 HEAD REGISTERED HOLSTEIN-FRIESIANS. America's Largest Sale of the World's Best Dairy Cattle.

JUNE 21, 22, and 23, 1910—THREE BIG DAYS

100 COWS. Many with official records and others that can make them. Great, large beauties with perfect udders and teats that are sure to please you.

200 HEIFERS. That have their whole life before them. Sired by the best bulls and many out of large-record dams. This is greatest bunch of heifers ever offered at auction.

50 BULLS. From two months to four years in age. Show bulls of the highest quality sired by the best bulls in the world and out of dams that show quality and production.

REMEMBER: All stock over six months old is tuberculin tested. That we offer stock in this sale that others would not price you. Catalog ready June 8th, mailed on application.

Robert E. Haeger, Box E, Algonquin, McHenry Co., Ill.

100 REGISTERED HOLSTEINS 100

AT AUCTION

At South Omaha, Neb., Tuesday, June 28th

CONSISTING of 50 cows and heifers in milk or soon fresh, a number in calf to noted eastern bulls; 25 heifers and heifer calves; 25 bulls and bull calves. A high-class lot. Every animal tuberculin tested. Watch later issues for full particulars. Catalogs ready about June 15th.

Rock Brook Farm, Henry C. Glissman, Sta. B, Omaha, Neb.

SHORT-HORN CATTLE.

CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and Bred to Narcissus King, singly or by carload. You will buy if you see them.

R. J. COX - GRINNELL, IOWA

High-Class Scotch SHORT-HORN Bulls

WE have a number of bulls right around a year old; solid red in color; blocky, symmetrical, well-finished fellows, with merit enough to entitle them to places at the head of good herds. They are all by Lord Banff Jr. and out of cows of straight Scotch lines of breeding. We want you to see them.

G. A. BONEWELL - GRINNELL, IOWA.

MONDAMIN SHORT-HORNS

WE now offer three yearling bulls at prices that will induce men to buy. Two red ones by Vallaut Jr., a roan by Gwendoline's Boy. Also some choice younger calves by same sires for sale. Visit or write us. Address

HELD BROS., HINTON, PLYMOUTH COUNTY, IOWA.

SCOTCH BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Miza. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.

ELK CREEK SHORT-HORNS

Five good bulls for sale, sired by Jolly Hampton, Custer Butterfly and Crimson Scot. Good colors and good individuals. Prices right. Auto phone 1902. Address

S. A. Nelson & Sons, Malcolm, Neb.

REGISTERED BULLS WANTED

We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd headers. Write us immediately. Address

Bragonier & Son, South Omaha, Neb.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

Good Red Short-horn Bulls

A DOZEN Scotch and Scotch-topped bulls, 10 to 24 months old, some good enough for the best herds, others suitable for farmers. Sires Courtier 5th 277599 and Baron Secret 2d 289279. Address

OWENS BROS. - HOMESTEAD, IOWA.

GOOD RED SHORT-HORN BULLS

FOR SALE. Sired by Knight Commander, he by the great March Knight; also a limited number of choice females. Get my prices before buying. HENRY P. MCCARTNEY, YORK, NEB.

BATES BULLS

SOME choice Short-horn bulls of the most fashionable breeding, fit for herd headers. Bred from milking strains. Send for my bull catalog. Address O. M. HEALY, BEDFORD, IOWA.

5 GOOD SHORT-HORN BULLS

Scotch and Scotch-Topped. From good milking dams. Prices reasonable. F. M. Hall, Friend, Neb.

Cedar Hill Short-horns

Three good young bulls for sale. Best of breeding and individuality. IRVIN E. WILSON, Belvidere, Nebraska.

WHITE BROS. CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

LAWNDALE SHORT-HORNS

FOR SALE: Six choice Scotch and Scotch-topped bulls from 14 to 24 months old. Good individuals, good colors and best of breeding. Will be priced low for quick sale. G. T. HAGGARD, HELVEY, NEB.

Wildwood Scotch and Scotch-Topped SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls. Headlight and Brawith Lad. For description and prices, address

W. W. VAUGHN - MARION, IOWA.

GOOD bargains—8 head pure-bred, Scotch-topped, red Short-horn bulls for sale; 1 to 2 years old. One high-grade, 3-year-old black Percheron stallion; 1,325 lbs. Good boned fall and spring Duroc and P. C. boars and gilts, large type; best of breeding. R. M. Young, Cook, Johnson County, Neb. Location—5 miles southeast Cook; 10 miles northeast Tecumseh.

SCOTCH and SCOTCH-TOPPED BULLS

I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athene. Others that are strictly choice. Also several Scotch-topped bulls by Lord Nuttiner. Prices low if taken soon. PERRY O. BROWN, LANONI, IOWA.

FOR SALE QUICK

A "REAL" herd header, red, "Cruickshank Secret," 22 months old, bred by Chas. C. Norton, son of his noted "Gloster's Favorite." You will buy if you see him. Write us now for particulars. H. S. & W. B. Duncan, Clearfield, Taylor Co., Ia.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Rigmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch. Wm. M. Smith & Sons, West Branch, Iowa.

CHAS. C. NORTON, CORNING, IOWA,

AS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

Springdale Stock Farm

Scotch and Scotch-topped Short-horns and big-type Poland Chinas. Write your wants. W. J. HATHER, ORD, NEBRASKA.

HORSES AND JACKS.

I STILL HAVE TWENTY-FOUR BIG, HEAVY PERCHERON STALLIONS and BELGIAN STALLIONS

WHICH I am very anxious to sell. Am offering the most tempting prices for big stallions that have ever been offered. Have had nice trade in heavy stallions this season, but still have on hand a larger number than I wish to carry over, and those who need big, heavy, first-class, sound stallions, cannot afford to miss seeing mine. These stallions ought to be sold; they should not be standing idle this season.

W. L. DE CLOW, CEDAR RAPIDS IMPORTING FARM, CEDAR RAPIDS, IOWA.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler Breeders and Importers of PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city

FAIRFIELD - IOWA

PINE RIDGE PERCHERONS



ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.**

DRAFT HORSE HEADQUARTERS GREELEY, IOWA.

DRAFT horse buyers will find at our barns a lot of valuable stallions—Belgians, Percherons and Shires of right age for immediate service. A few good Coachers. Come and see how cheap we sell.

W. A. LANG & CO., GREELEY, IOWA.



To Prospective STALLION and MARE BUYERS

WE landed home April 20th, with eighty head of two-year-old Percheron stallions and mares. Being the first importers in the Perche district, we secured the TOPS at prices no higher than others will have to pay for the CULLS in July and August. If you wish to purchase an extraordinary fine pair of young mares or a stallion, you are invited to inspect this grand lot of young horses. We have fifty young mares on pasture being bred to one of the best horses in America, and fifty young stallions in the barn to select from. Write us your wants; it will cost you but two cents. We will save you hundreds of dollars. Homewood is on the main line of Big Four and Illinois Central Railroads, twenty-three miles south of Chicago.

Suburban trains hourly. Bell telephone, Homewood 204.

S. METZ & SONS, HOMEWOOD, ILL.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14½ to 16 hands.

Everything guaranteed as represented. Est. 1892.

**J. C. HUCKSTEP, Prop.,
EOLIA, MO. Pike Co.**



MARES FOR SALE

The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an International winner, and one imported Hackney mare, both with foal. Also one first-class Short-horn bull. Address

**DIVISION OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.**

GALLOWAYS

HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address

John C. Gahring, R. 1, Box 29, Marengo, Ia.

When writing mention this paper.

Clydesdale Headquarters

McLay Bros., JAMESVILLE, WIS. NEW IMPORTATION—18 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine International than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. **CHAS. IRVINE, ANKENY, IOWA.**



FRANK L. STREAM, Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

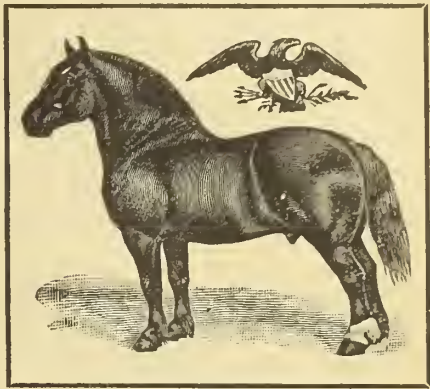
FRANK L. STREAM, Creston, Iowa.

HORSES AND JACKS.

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

Percherons, Belgians, Shires, German and French Coachers, Hackneys.



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

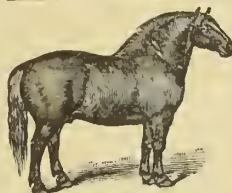
Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

A. B. HOLBERT, Greeley, Ia.



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STALLIONS all sold. Can spare a few more mares, your choice from thirty. I have sold over one hundred head this past season, and will return from Belgium, Sept. 1st, with another supply to refill all my barns.

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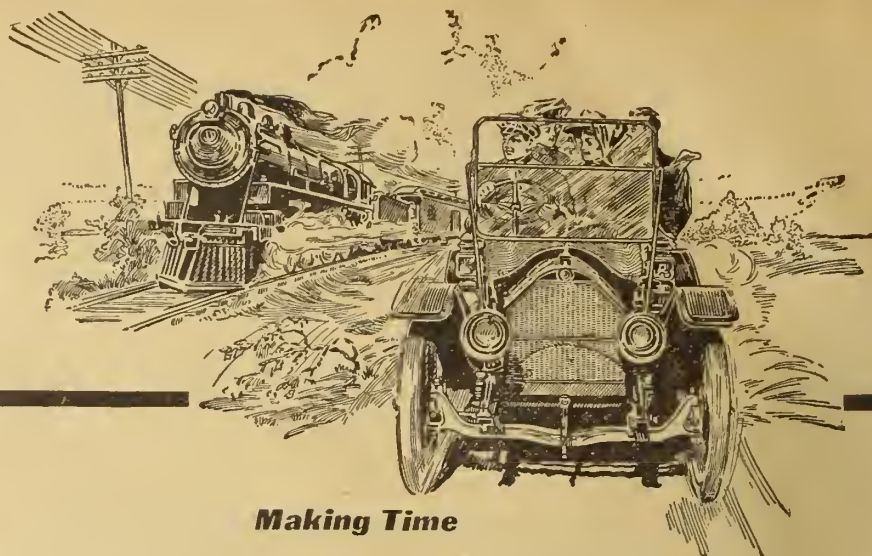
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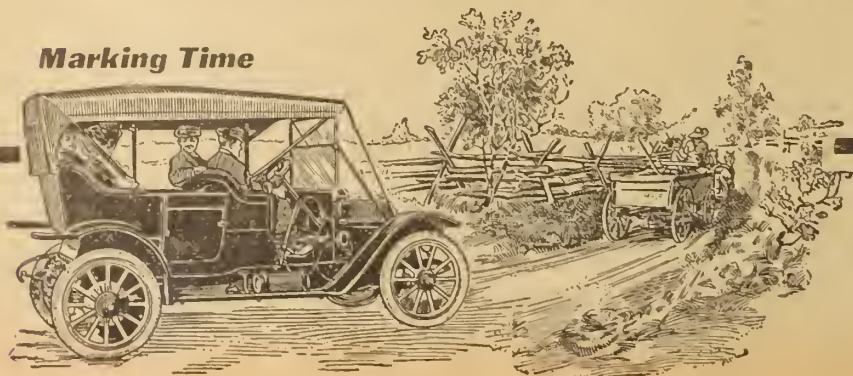
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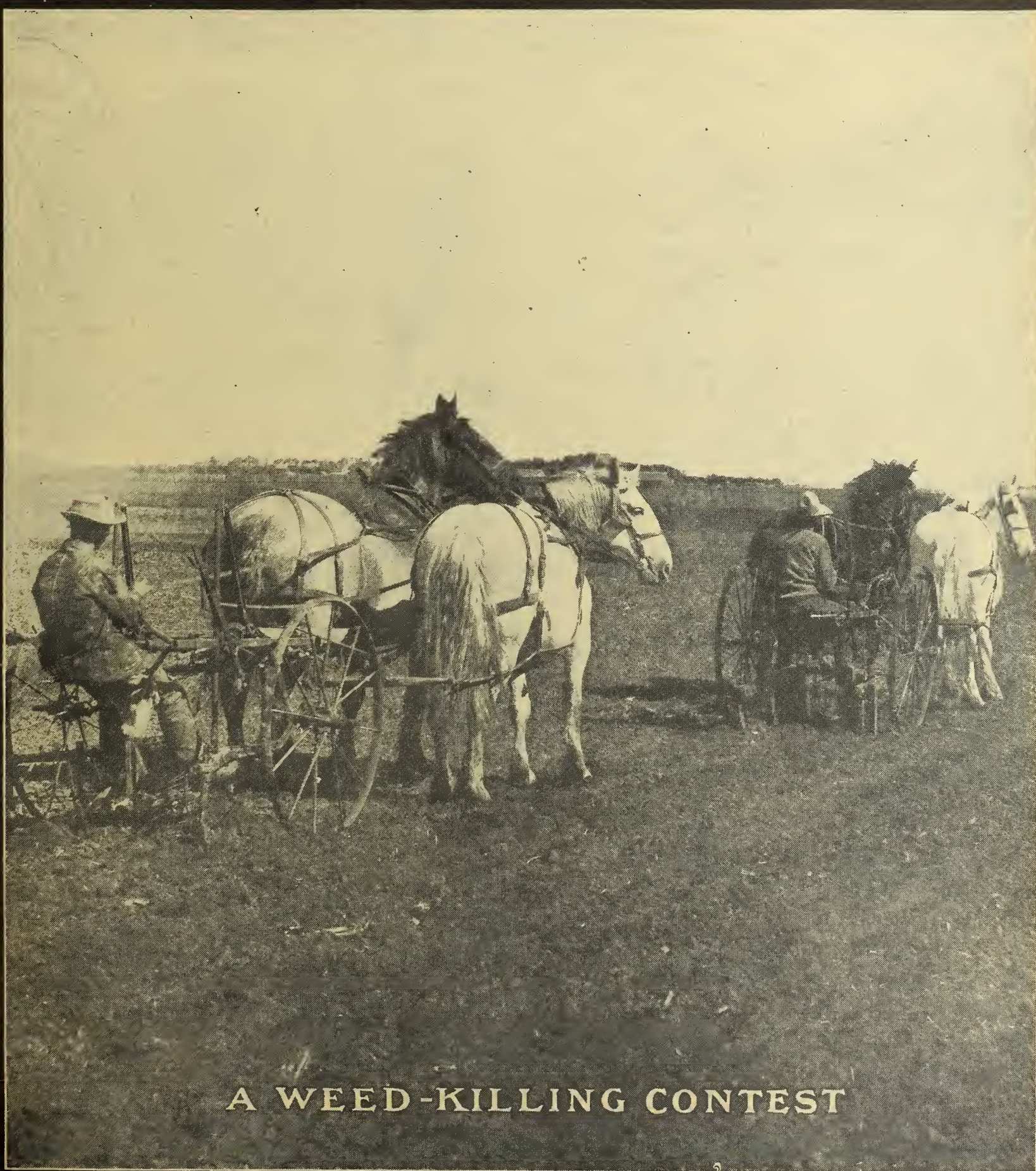
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VOL. LV. NO. 24

DES MOINES, IOWA, JUNE 16, 1910

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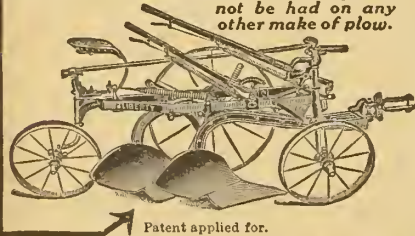
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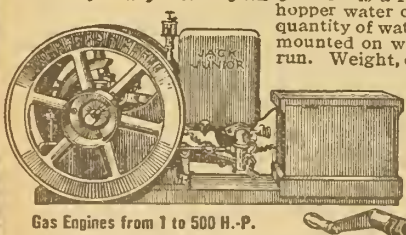
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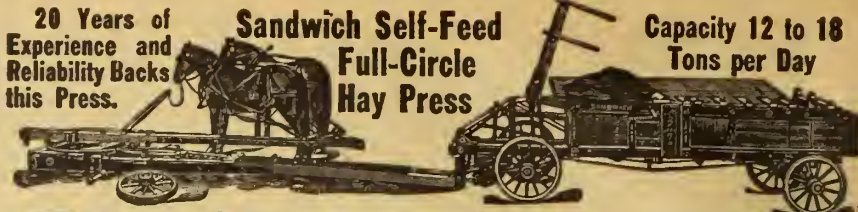
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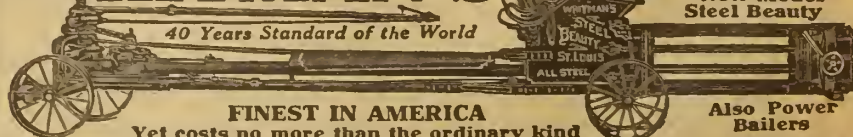
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The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JUNE 16, 1910.

Which Shall It Be, City or Country?

By John Lee Coulter

IT IS because I have lived many years on the farm, as well as a few in the city, have studied farming conditions in many parts of the country under varying conditions, and have visited many of the largest cities in the country—industrial and commercial—that I am led to make a brief comparative statement of the advantages and disadvantages of country life and city life. I shall then point out in a few words some of the steps which I feel should be taken to remove the disadvantages of rural life, and shall leave it for others to solve the problems of urban dwellers.

In order to have a truly great nation, the country must be occupied by a highly-developed people. And that means not a few great men and great numbers of lowly people, but a well-balanced mass. Not only should all—or as nearly all as possible—be in nearly the same stage of development, but each should be well rounded out, many sided, perfectly constructed. It may be as truly said of man as of a chain, that the strength is no greater than the weakest link. What boots it if a man have the strength and endurance of a brute, if he does not have intelligence, judgment and ambition? And what avails it if the race be strong of mind if it be weak of body? I am thoroughly convinced that the first essential, if we are to have a highly-developed people, is to see that a sane balance is maintained and that all of the essential qualities are developed. The most important of these—but not necessarily in the order of their importance—are health, physical strength, and endurance; intelligence, judgment, and ambition; energy and perseverance, imagination, mechanical ingenuity, and technical knowledge. I do not maintain that each person need have all of these qualities, or that each should have the same quantity as the other, but I do believe that a balance of the more important ones is essential if the highest development is to be reached. And the man who trains his mind to the sacrifice of health and strength is as weak, and deserves to be taken to task as much as the ignorant man who has strength and health developed to the superlative degree.

Are all of these essentials kept in mind at the present time in the bringing up of the new generation? If not, which are neglected? Which are the greater advantages, the city or the country? And how can the disadvantages of the country be overcome?

We have said that the health is important. I need hardly ask which is the more advantageous position from the view-point of healthfulness, the city or country? There is enough of fresh air in Minnesota, if properly combined with other elements, to produce as sturdy a race of people as the world has ever seen. The physical environment is one of the greatest assets of this great commonwealth. But, difficult as it is for me to do so, I must raise my voice in warning, that we are not, even in the open country, using this valuable asset as we should. Many of the schools are poorly ventilated, many of the country churches are the same, many of the country stores, public halls and other local buildings are the same and, worst of all, the majority of the homes are the same. The importance of pure air must be better understood than it generally is. Better ventilation must be introduced.

But I do not wish to seem to overemphasize this point. The country is far ahead of the city in this respect, for the city people not only spend their nights, evenings and Sundays in poorly-ventilated homes, churches, schools, and halls, but their days are spent

in equally bad offices and factories. And even when they get out it is only to find the air laden with smoke and germs.

What has been said of fresh air may be said, with necessary modifications, concerning light and temperature. Time will not permit me to dwell upon these points.

Good milk, also, may be available if the farmer wills it, whereas it is difficult and expensive at best to keep it at the right temperature, and prevent it from becoming contaminated as it passes along the line toward the city consumers. But there again popular education and rules will be necessary. More sanitary barns, more careful inspection for disease and cleaner methods than now obtain will have to prevail.

Beverages from berries, cherries, and other farm products may also be made available at will.

Plenty of wholesome food is also at his door. The milk, cream, butter and cheese; the vegetables, including the root crops and celery for winter use; the various kinds of meats; the honey and the eggs; all of these and other food materials are available. The flour is one of the country's most world-renowned products. The people of this country should have it as much cheaper than the people of Europe as the cost of placing it upon their markets. Breakfast foods—from corn, wheat, rye, barley and oats—must not be left from our list, nor should canned corn, peas, beans and other vegetables, or dried or preserved small fruits and apples. Indeed, so far as health is concerned, especially so far as it depends upon a chance for supply of pure food and beverages, good air, light and heat—with fields for playgrounds and a chance for the best of exercise—the rural population of this country cannot ask for greater opportunities. But, as I have noted, many steps will be necessary before they will have taken advantage

of these opportunities. If we limit our inquiry to health and physical strength and endurance, there can be no question that the people in agriculture, living in the open country, are far ahead of their city cousins. I am convinced that in energy and perseverance the country people are also in the most advantageous position and that they have these qualities more highly developed than the urban dwellers.

But the inquiry must not stop here. The next group contains education, including industrial and professional and technical training. Here it is that advantages are offered to the urban dwellers which have not yet been made accessible to the rural classes—unless they move to the city. With large numbers of people, concentrated in a small area as in our modern city—it has been comparatively easy to place schools, libraries, laboratories, and teachers accessible to all. The result has been remarkable, and it will be much more wonderful with the growing efficiency of these institutions by the development of the industrial courses now being introduced, and the improvement of our compulsory education laws. In intelligence and technical knowledge the city dweller doubtless is far in the lead, not because of greater ability, but because of the nature of his location and presence of institutions.

And just as endurance, energy and persistence follow health and physical strength, so judgment, mechanical ingenuity and probably imagination have followed closely upon general intelligence and technical knowledge. It is, therefore, not surprising that the city dwellers surpass the country people in these respects. It should not be overlooked, however, that these last qualities are not peculiar to town people. They are equally developed in country boys and girls when these have access to the city schools, libraries and laboratories. Indeed, since the country boys and girls have better health and strength, these other qualities are more rapidly developed in them and to a higher state of perfection when the opportunities present themselves. Hence the common statement—true to the fact—that the leaders come from the open country.

Ambition was named as a desirable quality. Ambition for what? To gain power, property, riches, honor, or a well-rounded-out and happy life? Does ambition mean to strive to achieve something commendable and right, to be aspiring, eager, alert, energetic, to do some good? Or does it mean to gain power and riches? If the first—and I believe the only true meaning—is the goal, then the open country offers all of the advantages of the city. But if power over others or great riches is the goal, then the city is the place where many live and where exploitation is most possible.

It must be clear from this analysis that there is now, in this country, one weak link in the chain of advantages which may be credited to the open country. Educational facilities—schools of all grades, libraries and laboratories—are lacking. This is entirely due to the great distance between families—to the diffusion of the farm population. Any force or set of forces which would help to remove this obstacle should be set in motion.

In addition to these qualities which have been mentioned as necessary for a well-rounded-out people, it must be remembered that man is a gregarious animal. Aside from a few exceptions, men wish to congregate, to commune with one another. It is as natural for people to desire to meet in groups for various purposes—



A SPLENDID TYPE OF DRAFT HORSE.

(Continued on page 5.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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CARE OF STOCK IN SUMMER.

Some important points are touched on in the following communication recently received from an Illinois subscriber, Mr. W. H. Underwood:

Now that the sun is gaining in power animals of all sorts feel the heat, and this will be continued and increased more or less for months to come. A warm, broiling atmosphere troubles them considerably, but when they can find no shade from the scorching sun they are very restless. Horses feel it least, but they appreciate shade all the same. Cows are much harassed by it. The milk supply tells this. On the evening of warm days there is generally a falling off, and in many cases a decided decrease. The cows, too, do not gain in condition, but the reverse. The depression is not so much noticed in young cattle, but it is quite easy to understand that they suffer equally. Sheep feel it intensely, and often pant and gasp for breath. Pigs suffer from scorched skins and are extremely unhappy. Indeed, altogether excessive heat is a decided disadvantage. There is, however, no getting away from it, as it will occur, and the only relief is to be found in arranging that shade is provided.

On many farms there are sheds here and there in the fields. These are excellent conveniences, and should be made as much use of as possible. Indeed, considering how very useful such erections are as shelters in winter, the cost of erection is well repaid. Posts, boards and zinc roofs are the materials required. When they are put up it should always be in a central spot, so that the stock from several fields can make use of them. But many owners cannot see their way to go to the expense. In that case the shade of trees is the only substitute, and this proves very useful. Flies are not partial to shady places, and to get away from these is a great relief. Trees, however, are not to be found in every field, but there are few farms in which they do not occur in some fields, and the greatest attention should be given to arranging for the stock to occupy these in the day time in hot weather. Such protection goes farther towards maintaining their condition and assuring their progress than anything else that could be done for them under the circumstances.

I feel quite confident that, were it possible to learn from an animal whether it would prefer a good square meal and no shade or withhold the meal and supply the shade, the latter would be chosen very generally from early June to late September. Fields with no shade are most suitable for night grazing. Besides the worry to the stock, unshaded fields often cause trouble to the owner, as the animals will get restless and rush through the fences. Then there is almost sure to be disturbances on the laws of fencing. If no shade is available anywhere, the stock should always be kept near the farmyard in the daytime, and allowed to go into the buildings when disposed, which will be very often in hot weather.

The water supply is of equal importance, or, indeed, more so, as a supply to them is imperative. The most acceptable of all is a running stream. Wherever this occurs, every effort should be made to let as much of the stock have access to it as possible. All the grazing fields may not adjoin the streams, and if arable ones come between it often pays to wire off a gangway along the side of the field to admit them to water. Indeed, labor is well spent in securing a full supply. Sheep suffer the least from a deficiency of drinking water, and horses and cattle the most. Pools that are kept clean and shaded with trees are the most acceptable supply, but when the contents are hot and dirty, the thirst may be quenched and they drink with apparent relish, but ill of more or less magnitude are apt to follow, and if there is a dirty pool most convenient, and a clean one far away, it will be the cheapest in the end to keep the stock from the filthy and give more time and attention to admitting them to the clean.

Where water has to be supplied in tanks and tubs it should all be secured

from the cleanest source in the district, and I would rather go a mile or two for such than use the doubtful supplies. Driving the stock a long way once or twice a day to water seems a handy form of treating them, but it is very fatiguing to the animals and takes a lot out of them. Indeed, I would rather keep a water cart going. In supplying water in tubs, etc., these should always be placed in the shade to prevent evaporation, and no water should ever be allowed to remain in them so long as to stink.

Those who run short of keep and have to send some of their stock away to graze should always inspect the fields they are going into, and besides satisfying one's self on food being sufficient, be quite sure the water supply is ample and avoid all that is not.

To carry stock through the summer months without allowing them to have access to shade amounts to a tremendous handicap in making cheap gains and getting growth at the least possible cost. As suggested by Mr. Underwood, artificial shade may be made temporarily, and for hogs especially, this is absolutely necessary. Cattle can stand the heat better than hogs or sheep, but even in that case a little shade contributes immensely to their thrift.

This whole matter of shade and water supply is one that must be taken into consideration by every man, not after, but before he adopts the policy of raising stock on anything like a large scale. Where water has to be hauled even in dry seasons, and when the supply is short at those times of the year when the farm is heavily stocked, an entirely different policy ought to be carried out than would be the case were the water supply abundant. If there is any place where the policy of grain farming, as distinguished from stock farming is applicable, it is in those cases where shade is lacking and where water is scarce.

GROWING BUCKWHEAT.

The acreage devoted to buckwheat in the central West, and in fact in the whole United States is relatively small. It is a crop adapted to what might be called the odds and ends of the farm. There is, however, one phase of the subject that has not been emphasized sufficiently. We refer to its value as a weed exterminator. The fact that it is seeded late in the season affords an ideal opportunity for checking weeds previous to the time of sowing.

An Illinois subscriber in a communication recently received has this to say on the subject of growing buckwheat:

I have grown buckwheat for several years and have found it a very profitable crop. As there are perhaps some who have had no experience with it, and who would like to grow a patch, I will give my experience with this grain and trust someone will be benefited thereby.

Buckwheat produces grains which resemble in shape small beechnuts, hence it gets its name "beechwheat" or buckwheat. Its roots are quite short and it feeds largely on the air. Its peculiar blossom is much sought by bees for its nectar.

Ordinarily fertile soil is best for buckwheat. I have found that if the soil is too rich the plants will grow rank and will lodge, and there will be but little grain.

In preparing the ground for buckwheat I plow it to a good depth, harrow and drag the same and sow one-half bushel of seed per acre broadcast and harrow it in. I do not sow early. I have sown in May, but the result was a very poor yield. The best crop I ever grew was sown June 25th. The small-grained variety has given me the best satisfaction.

My custom is to harvest the crop with a mowing machine, cutting it down in the morning when it is wet with dew, in order to prevent the seed from shattering off. After allowing it to lie in the swath two days, it is raked up in the morning and stood in bunches to thoroughly dry out. It is then thrashed and the straw saved for bedding in the stables. Where only a small patch of buckwheat is grown it can be cut with a scythe and thrashed in a wagon box with a flail.

I consider buckwheat a valuable crop. We have kept from 100 to 130 hens each season for the past twenty years, and have found that buckwheat makes excellent feed for poultry. When we have the buckwheat to feed we give them all they can eat.

Certainly nothing seems to start pigs along better than small potatoes boiled and mixed while hot with buckwheat, bran and middlings. I have fed buckwheat mixed with oats to horses with good results—one part buckwheat and two parts oats.

Reverting again to the weed phase of the question, we desire to call attention to the fact that if land is kept clean up to the time of sowing buckwheat, by cultivating the surface

occasionally several crops of annual weeds can be destroyed, while perennials will be given a very severe check. Seeding may even be delayed until some time in July and in that case such crops as quack-grass and morning-glory will be practically smothered out before the buckwheat is sown. If the surface is thoroughly cultivated just previous to seeding the crop itself will act as a blanket and smother out the perennials. We have in more than one instance seen quack-grass absolutely killed out by keeping the surface thoroughly stirred until the middle of July and following this up by sowing buckwheat.

WEAK FOALS.

The following communication has been received from a Kansas subscriber, Mr. R. C. Johnson:

I would like to know the cause and remedy for mares dropping a colt which is unable to stand up and suck, and finally dies. I had two mares, bred to different horses, on different farms, both in good condition, and both lost their milk before foaling their colts, that is, the milk ran from their bags. This is my first experience in losing colts that way and I cannot account for it in any way. Is there any way to save colts born in that condition? They were dropped at the regular time and were perfectly formed. Any information would be thankfully received.

It is very seldom that foals coming into the world in this condition can be saved. We have noticed in handling all classes of farm animals that unless the mother is in proper condition to nourish the young at birth, the offspring is very rarely saved, even though artificial means may be resorted to. The condition alluded to by Mr. Johnson is very often the result of pampering the mares and pampering the sires, or both. More and more men are coming to believe that the stallions ought to be made to do a normal day's work every day because of the effect on the ruggedness of the offspring. This may seem impracticable to nine-tenths of the stallion owners, and stallions will be put into harness and made to labor, only when pressure is brought to bear on the stallion owner by farmers in general.

When it comes to the matter of working the mare, that can be overdone, but ordinarily a mare can do a day's work right up to the time of foaling, and in the main they are the better for it. This is not equivalent, however, to saying that the matter cannot be overdone, because we know of more than one instance where mares have been judiciously fed and worked hard right up to the time of foaling, and yet the colts have been so weak that they could not be pulled through. There ought to be moderation in all things, and this applies to the manner in which brood mares ought to be worked.

BUYING MALE PIGS EARLY.

No matter how well a bunch of pigs is cared for, there will always be a few—possibly half a dozen or a dozen—that will go ahead of the rest. From the time these are a day old they will show just a little bit more vigor than the others, and we have always held the notion that the forward ones are the kind to tie to in breeding operations. Because of this the man who buys his males early in the season generally gets the best end of the bargain.

We know a considerable number of individuals who always make it a point to buy their males when they are between four and six months old. They figure that if they send a mail order the breeder will naturally pick out a pig that shows good weight for his age, because he reasons that good care will bring his smaller pigs out and there will be a demand for these later on. Indeed, that is good logic and it works out favorably for both parties.

We doubt if there is a successful breeder of pure-bred swine in the great central West who cannot tell with a very great deal of accuracy which of his pigs will make the best mature hogs even when they are four months old. We have tried it repeatedly in our own herd, and have rarely ever missed it. A few years ago, out of a bunch of fifty males, we had an order from a distant state for the best male in the bunch. The selection was made at four months and the pig sent turned

out to be an extraordinarily good one. In another case we received an order for the two best male pigs out of seventy-five males, and we used our best judgment in selecting them when they were between four and five months old. The result of the selection more than pleased the purchaser not only at the time of his purchase, but later on, because this pair of pigs really turned out better than anything we had left in the herd.

We must not be understood as saying that out of a bunch of fifty or seventy-five males of good breeding, that only one or two real good ones can be selected, but as a matter of fact every breeder who has been in the business for any considerable length of time will agree with us when we say that there are only a few top-liners in any herd. Because of this we make the claim that the man who orders his male pigs early gets the best end of the bargain. It is true that sometimes an extra pig involves considerable care, but our experience is that where a good many hogs are being raised one can well afford to fit up an extra yard and an extra pen or two to care for his male breeding hogs.

WHERE THE HARROW DAMAGED CORN.

Up to the present time it has required lots of good headwork to manage the corn crop this year. The soil has been so cold that only the best of seed has made any showing whatever, and even in some instances it is claimed that where good seed was used the crop had to be planted the second time. It has been a year when even the beneficent harrow failed to confer its usual benediction on the average cornfield, and the man who put his crop in and left it untouched until it was ready to cultivate the first time is in the lead now. This condition could not be foreseen and it demonstrates that in agricultural practice no fixed rule can be laid down as a guide under all circumstances and conditions. Even some of our leaders in experiment stations and college workers have given misleading advice. In a press bulletin sent out from the North Dakota Experiment Station the following reference is made to the use of the harrow in the cornfield:

Use the harrow or weeder on the land which has been planted to corn, at regular intervals, once a week or ten days from the time it is seeded until it is about five inches high. Whenever a crust starts to form on the soil after a rain, the weeder or harrow should be run over the field. This work with the machine destroys the weeds which will sprout as a result of the rain and prevents a loss of moisture by evaporation. Either of these effects alone will be worth the short time necessary to cover the cornfield with the harrow or weeder.

Corn can be harrowed before it is up and afterward until it is about five inches high. Harrowing has the advantage of stirring the soil in the hill between the stalks and throughout the field so that the weeds in the hills are destroyed, as well as those between the rows. The man who runs the cultivator in the cornfield is a little careful about getting close to the hills with the cultivator when the corn is small for fear of covering it up, which will make it necessary for him to stop and uncover the corn.

Corn which is two or more inches high looks like the harrow is killing it and bears this bedraggled looking appearance for a day or two, after the harrowing is done. In the course of a week or ten days, however, it shows an improvement over the corn which has not been harrowed and usually at husking time the difference is very marked. Many a man is scared out and gives up the job when he sees a number of stalks uprooted and the bedraggled appearance of the field throughout as a result of his harrowing. After he does this once and notes the appearance at the time that the corn is in tassel he seldom hesitates again to harrow his corn.

We have no hesitation in saying that those who followed the method described above are filled with regret at the present time, because harrowing brought more grief to corn this year than has been the case any time in the last decade. Even the tramping of the soil between the time of planting and the time of germination caused the corn in a large percentage of the hills to rot, and as stated above, those who absolutely let their fields alone this year are in the lead.

As to the advisability of harrowing corn until it is five inches high, as suggested by the bulletin from North Dakota, we have no hesitation in saying that in nine instances out of ten this

plan should never be put in operation. Every man who has had anything like an extensive experience in growing corn knows that the crop is rather feeble until it gets to be five or six inches high, and while it was formerly the custom to harrow corn after it appeared above ground, we are more and more coming to believe that this practice only lessens the stand, and the advantage that results from weed killing is more than offset in most cases by the injury done to the plants and the extent to which the stand is lessened. The damage is already done this year, but it behooves every man to consider well just where his mistakes have been made. When soil is warm at the time of planting and remains warm, and when the seed is strong, it might pay to harrow the corn crop after it appears above ground, especially if the soil is very weedy, but as before stated, a year like this one could well afford to leave the harrow in the shed and keep out of the field until the corn is big enough for the cultivators.

WHICH SHALL IT BE, CITY OR COUNTRY?

(Continued from page 3.)

for play, social life, worship, and consideration of common problems—as it is for the sexes to mate, establish a home, and rear a family. The same obstacle which makes it difficult to establish efficient educational institutions must here be reckoned with—the sparsity of population.

If, therefore, education is to be provided and if provision is to be made whereby the rural population may meet for the various purposes mentioned, this problem of diffusion must be solved.

In order to secure the undeniably great advantages of the city, without

at the same time adding the equally undeniably great disadvantages, we must consider well before recommending pronounced changes in the effort to improve country life. A true community life is desirable, but with the present institutions which were not available until the last decade, and with the rapid changes in population movements, I wish to urge this thought, that physical continuity—that is to say, actual village or city life—is not necessary in order to build up a true community life.

Let us carefully note what some of the new conditions and institutions are, and in what way they may be helped on in order to produce the desired results.

First, with a total land area of nearly three thousand millions of acres and with a rural population of little more than 50,000,000 of people, it must be clear that on the average the people are greatly scattered. But with the natural increase of population greater density will be secured; small farms are rapidly increasing in number. This is especially true since desirable free land is all but gone, and this fact is of growing importance.

Second, the great advance in the agricultural and economic sciences, teaches us that we can—and that the time is here—produce much more than we do now on the same areas. This encourages many—as it should—to seek agriculture as a profitable industry, and calls for larger expenditures of capital and larger supplies of labor. This, therefore, results beneficially not only to consumers, but to the people in the country by reducing distances, calling for a better educated people and therefore more and better institutions. Agricultural education should be encouraged from both viewpoints therefore—as a means and as an end.

Third, scientific advancement, other than as noted above, is helping to

solve the problems due to diffusion or sparsity of population in the open country. The telephone is the best illustration that comes to mind.

Fourth, the rural mail delivery has been one of the greatest blessings yet extended to the country districts. But many districts are without the mail. This should not be. If now we could but add the parcels post, making possible the sending to libraries for books and the exchange of little gifts, another great stride would have been made. In this connection the postal savings bank and farmers' credit societies should be mentioned.

Fifth, no single improvement would do so much for all dwellers in the open country as a good road system. Aside from the savings which would mount up to millions of dollars, this would do more than the introduction of fast horses in the shortening of distances.

Sixth, with these many improvements will come the electric railroads furnishing rapid transit to the cities for country shoppers, and city workers, as well as country produce and at the same time taking care of the reverse movement of people and the goods which they desire.

Seventh, in order to produce these reforms—all of which will aid in removing this one great disadvantage, distance—and at the same time preserve the separate farm family, it is necessary that agriculture be kept at a very profitable level.

In a century this country has been brought from a wilderness into a thriving, prosperous condition. Few people came here with great wealth. Practically all has come from its fertile natural resources. Not only have the people secured a living from these resources, but they have also brought up large families, have built homes, churches, halls, and schools, have built roads and equipped their farms and contributed largely to the

upbuilding of the cities. Theirs has been marvelous progress.

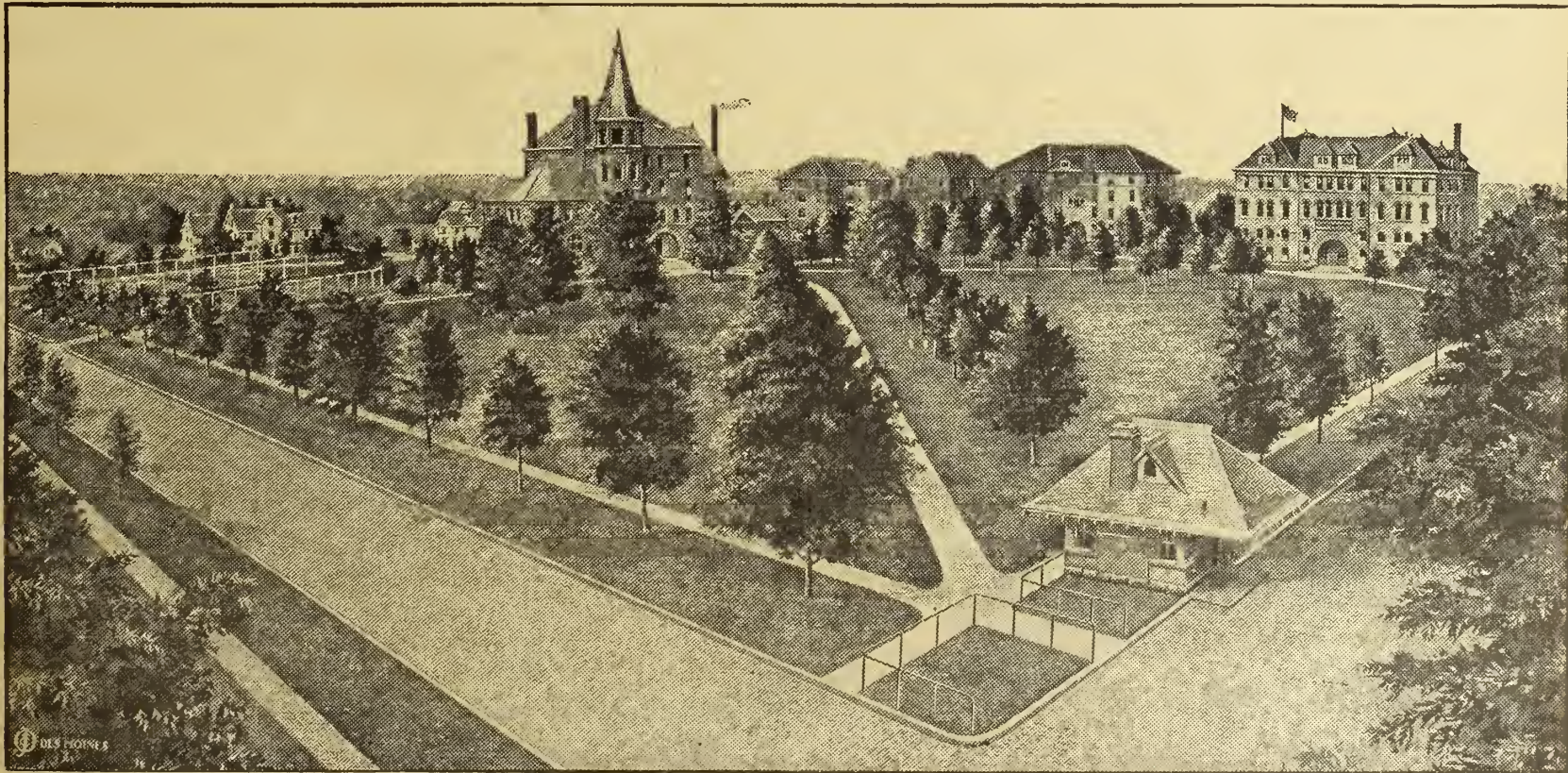
Compared to it the new demands are small, but if they are to be made it is necessary that agriculture shall produce more than a living for the farming class. There must be enough of surplus to carry out the plans outlined, to reduce this great disadvantage—distance.

The national government can do much. It can extend mail delivery into thousands of districts not cared for. It can establish the parcels post. It can establish postal savings banks, furnishing the basis of a credit system. It can establish laboratories, educational institutions and model farms. It can send out lecturers and pamphlets, indeed there is a great field open to it.

The state government can be equally helpful. It can provide for better and more teachers prepared to cover the new and large field now recognized as fundamental—industrial education. It can provide for better schools—consolidated in the country districts and equipped with libraries, etc. It can extend its very excellent traveling library system, establish country branches and send out single books as well as small libraries to local districts and to homes.

Dakota now has twenty-one demonstration farms, nine of these having been established the past season. Thirteen of the farms have a five-year rotation, two of them have a four-year rotation and five of them have a six-year rotation. The six original farms all have a five-year rotation consisting of a corn crop, a hay crop and three marketable grain crops. Most of the fields are each four acres in size. This size is selected because it is handy to work and it is the smallest piece that will give real field conditions.

College Meets Educational Needs



The great educational need of the grain belt is an institution of learning which shall supplement the common schools and offer to those ambitious boys and girls who have finished the regular graded course and those ambitious men and women who have been denied school advantages in their youth an opportunity to secure that practical technical or industrial knowledge which will fit them to take a prominent part in the world's work. This need is coming to be more and more generally recognized. Every year finds the teaching of the grade schools becoming more practical, tending to fit the students to go directly to office, workshop, factory or farm and immediately take up life's work. Yet it is absolutely necessary that the

means to gratify the ambition to secure a classical education should not be denied in the rush to make knowledge practical for everyday work.

It is a matter of congratulation to the entire grain belt that it possesses one college which fulfills all the requirements both in the way of a classical education and a practical working knowledge of various arts and industries. Highland Park College, located at Des Moines, Iowa, in the very center of the wealth-producing section of America, offers the regular standard courses on an exact par with the state university and other well-known institutions of higher learning, but at the same time it has arranged a series of short courses in practical matters which

makes it possible for any boy or girl, man or woman, to enter college without an examination and fit himself or herself, in a short time, for practical, profitable work.

The boy or man who takes these courses finds himself, at the end of a few weeks, possessed of practical knowledge sufficient to go out in the world and earn a good living as a steam or traction engineer, machinist, automobile machinist, automobile chauffeur, electrical engineer, telegrapher, bookkeeper or shorthand reporter. In addition there is offered a short course in pharmacy, completing the education of the boy or girl who has clerked in a drug store and there picked up the rudiments of the subject.

These courses solve the problem of

how to get on in the world when time and money are scarce and when early education has been neglected. No entrance examination is necessary. An ability to study and learn and a determination to work are the only requisites. Already thousands of boys and girls and men and women have availed themselves of this splendid opportunity and have gone out in the world to make a good living. The attendance at the college this year reaches the 2,500 mark, practically every state and territory being represented. At the same time the regular standard courses are being maintained. President O. H. Longwell is entitled to credit for thus bringing about an educational innovation which cannot fail to be with an uplifting on the entire country.

FARM FURROWS

Turned By a Practical Farmer

I know a quarter-section farm with a draw or ravine running clear across it that cuts nearly three tons of wild hay per acre each year for the last two decades. It is the best-paying part of the farm, and better than it would be if plowed and tilled for other crops. The fertilizer from the rest of the farm and from a lot of adjoining land washes across it every spring. The owner says he would not have it tilled and broken up if anyone would do it for nothing.

Willow roots will find a tile six rods from the tree in a dry season.

The woven wire fence and a small flock of sheep are the best weed killers for the average farmer. Smaller fields and more sheep, more money and less work. Give the sheep the stubble field after the grain is out for a month and the fall plowing won't be green.

One man plants corn in March and it grows, another plants it May 10th and the same seed rots in the ground. The condition of the ground and its location has a lot to do with it. A sheltered field that is a little sandy will stand a lot of cold nights.

The Lord made the ground right side up to raise grass. Pastures where the seed was sown on the virgin prairie, on low ground, have more feed now than twenty-five years ago. Blue grass, white clover and a sprinkling of red top makes a sward that will pasture three head to the acre one year with another. Very few upland pastures will pasture half that number one year with another.

The man who is going to raise fruit in order to get out of work and still make money is going to fail. There is just the hardest kind of work in fruit raising and a lot of it, but it pays out better generally than either stock raising or grain raising.

It was something new to me to hear someone brag on some extra good farm in the state of Washington, and find that the owner had drained some swamp or slough. Sometimes these

A DOCTOR'S EXPERIENCE.

Medicine Not Needed in This Case.

It is hard to convince some people that coffee does them an injury! They lay their bad feelings to almost every cause but the true and unsuspected one.

But the doctor knows. His wide experience has proven to him that, to some systems, coffee is an insidious poison that undermines the health.

Ask the doctor if coffee is the cause of constipation, stomach and nervous troubles.

"I have been a coffee drinker all my life. I am now 42 years old and when taken sick two years ago with nervous prostration, the doctor said that my nervous system was broken down and that I would have to give up coffee.

"I got so weak and shaky I could not work, and reading your advertisement of Postum, I asked my grocer if he had any of it. He said, 'Yes,' and that he used it in his family and it was all it claimed to be.

"So I quit coffee and commenced to use Postum steadily and found in about two weeks' time I could sleep soundly at night and get up in the morning feeling fresh. In about two months I began to gain flesh. I weighed only 146 pounds when I commenced on Postum and now I weigh 167 and feel better than I did at 20 years of age.

"I am working every day and sleep well at night. My two children were great coffee drinkers, but they have not drank any since Postum came into the house, and are far more healthy than they were before."

Read "The Road to Wellville," found in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

swamps are covered with a growth of pine, or other timber that costs as much as \$100 per acre to clear it before draining. The drainage of a prairie slough is mere child's play by the side of that kind of a job.

I once saw a piece of land cleared of timber and the wood burned into charcoal, where the stumps by actual measurement covered more than one-half of the land. When they were blasted out, and burned out it had cost about \$200 per acre, less the value of the charcoal, to clear it, but it made the owner \$500 the first year when planted to blackberries and strawberries, and later on to pear trees and winter apples.

Our plum crop died "a-borning" this year, but it looks as though we will have a few apples, which is more than was expected a few weeks ago.

Field crops are very backward about coming forward, but it is rather early to predict a general crop failure. A warm rain and a week of warm weather will change the looks of things.

The seed corn question is still with us. Many fields are being replanted with flint corn even in June. Others are sowing barley or flax on fields where corn failed to grow. The cries of, "Test your seed corn," did a great deal of good, but could not make seed enough to go around.

You feel rather disappointed after building a hog house and fixing up farrowing pens with all modern conveniences and then have the sows wander off and start housekeeping with their brood of little ones in an old straw pile.

Nearly all implement dealers have a good-sized scrap pile of machinery that has been taken in part payment for new machines. It is true that it does not pay to try to farm with worn-out machinery, but it looks as though the bright new paint has an irresistible attraction for some.

The implement dealers are wide-awake fellows and, like the rest of us, they are after the coin. This being a dry season, they are well supplied with surface corn cultivators and are selling surface cultivator shovels to fit any make of cultivator.

Short pastures are making it necessary to keep the fences in good repair. Fixing up an old barb wire fence is not one of the pleasant jobs about the farm. Barb wire is a nuisance in more ways than one, but there is something about a barb wire fence that makes the cattle change their mind about going through if it is well built.

One of the drawbacks about a windmill is that when anything gets out of order with the machinery part it is usually during a windstorm. This, to use a slang phrase, puts the owner "up in the air," but if he has good sense he will stay as near the earth as possible until the storm is over before trying to do any repair work.

Others may do as they please about plowing under cornstalks in preparing ground for corn, but as for me I am done with that practice forever. This year I tried it on fifty acres and we are having a terror of a time cultivating the corn. I believe a man is ahead in the end if he will burn his stalks outright, or what is better, he should cut most of his corn and feed it fodder and all.

We have no grudge against college professors, but it is amusing to note how wild some of their statements are. One of these fellows, who is connected with the national department of agriculture, advises farmers to change their system of planting corn; instead of checking it so that the kernels drop together in a hill, these should be placed at the corner of an

eight or ten-inch square. How would you like to cross-cultivate corn planted in that manner, especially if it were just a little bit out in the checking? That would be a Fourth of July picnic sure enough.

More farmers made a mistake in planting their corn deep this year than has been the case any time in the last decade. It should always be remembered that soil water moves from below upward from a depth of fifteen feet, so that corn planted two inches or two and one-half inches deep is always apt to find moisture enough to germinate it.

I put in a special seed-corn patch this year, having the idea in mind of getting a supply of high-yielding corn. There is no question in my mind but what one can fix that type of corn just as well as he can fix a good type of animal. Of course the soil has to be rich in order to get a good yield of corn, but that part of the problem has been attended to in the years gone by and the soil itself is actually productive.

Senator W. P. Whipple, author of the bill before the last Iowa legislature to place all the state institutions of higher learning under the charge of a general educational board of control, died at his home in Vinton last week. Senator Whipple had fought for this bill through three sessions of the legislature and found himself victorious last winter. The bill is now a law and is working out well, even those who were opposed to its adoption must admit this. The institutions at Iowa City, Ames and Cedar Falls are being given a businesslike administration

and their courses of study no longer conflict.

SHOCK OR STACK THRASHING, WHICH?

The Homestead has always placed the highest esteem on contributions received direct from the farm. The man who works with his coat off is, after all, the one who is in the best possible position to give sound, practical advice, and we desire to have even a larger number of such contributions in the future than we have had in the past.

We submit the topic, "Shock or Stack Thrashing, Which?" for discussion in an early issue of The Homestead. In fact, we propose to make this topic the subject of a little contest and we will give a cash prize of \$3 for the best contribution on the subject; for the second best we will give \$2; for the third best \$1; and for the next five we will give a year's subscription to The Homestead.

It doesn't matter whether you are in favor of thrashing from the shock or whether you believe in stacking—give the best reasons you can think of for the practice that is most extensively carried on in your community, and the merit of the contributions will alone determine upon the arguments advanced. Above all point out the advantages of the plan you favor over the other method.

How "The Farmer's Friend" Saves Work, Time and Money

GET a wagon load of corn into the crib in three to five minutes, without shoveling a bushel. Sit down and rest, or pick out the poor ears and seed corn, while the load goes up. The boys and girls can husk—there's no shoveling. You can husk 15 to 20 bushels more every day. There's no need of hired help.

You can build your cribs twice as high, save money on roofing and flooring, get double the room so you can hold your grain till the price is high. That's the way if you own "The Farmer's Friend."

Wagon Dump and Grain Elevator

Don't wait another day. Let us send you all the facts and proof that this is the greatest elevator made—the biggest money maker, money saver, work, time and labor saver for you. Simply mail postal now to

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THE UNIVERSAL HOIST

Operated with a 2 H. P. engine or larger; will pull your hay carrier or stacker. Will pull a rope or cable any place and SAVE THE EXPENSE OF A MAN AND TEAM OF HORSES wherever it is used.

Notice by the cut the hoist is thrown in and out of gear by the man on the load. Can be furnished with PULL-BACK DRUM attachment for returning empty hay carrier, etc., and with or without truck mounting, ready to set any size engine on. One progressive farmer writes us—"I was well pleased with my Universal Hoist. I think it is safer, quicker and cheaper than a team. Two of us put in the barn between 80 and 90 loads of hay, with five gallons of gasoline." Write today for catalog, prices and SPECIAL 30-DAY FREE TRIAL OFFER. "Make your engine worth more."

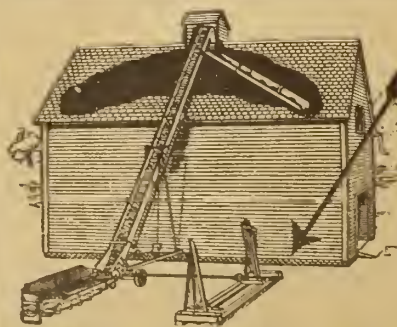


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CURRENT EVENTS

AS A result of a conference held between President Taft and a committee of three railway presidents, representing the twenty-four railroads which form the Western Trunk Line Association and were recently enjoined from raising the freight rates the first of June, the railroads have agreed to suspend the increases already ordered, until congress has passed the administration railway rate bill giving the Interstate Commerce Commission authority to investigate all proposed increases before they go into effect. Following this agreement President Taft announced that the government would dismiss the injunction proceedings brought at Hannibal, Mo., a few days ago, in which Judge Dyer granted an injunction restraining the increase. Matters will thus remain in their present condition until congress acts on the railway bill. Thereafter if the railroads desire to increase the freight rates they will be compelled to file notification with the Interstate Commerce Commission, and sixty days must ensue to allow the commission time to investigate. It will be impossible to take snap judgment on the shippers. The conference resulted in a compromise which bids fair to be satisfactory to all parties concerned.

THEODORE ROOSEVELT delivered a lecture on "Biological Analogies in History" at Oxford University during the week, following the degree of Doctor of Civil Law being conferred upon him by that leading institution of higher learning. The ex-president was greeted by a large and enthusiastic audience which frequently interrupted him with manifestations of approval. It is declared that no such scenes of enthusiasm have ever before been witnessed in Oxford's classic halls. Colonel Roosevelt was introduced by Lord Curzon, chancellor of Oxford, who spoke of him as "a ruler of men, the most conspicuous figure in America since Abraham Lincoln." After touching on the former president's many achievements the chancellor said: "Although he is now taking a holiday, it is undreamable that such a man will long remain out of public life." Colonel and Mrs. Roosevelt and their party sailed from Southampton last Friday and are due in New York Saturday, the 18th.

THE administration railroad bill, materially amended, passed the senate last week by a vote of fifty to twelve. No republican senator voted against the bill, while six democrats (Chamberlain, Clay, Gore, Paynter, Simmons and Stone) voted for it. The bill would probably have been unanimously adopted had the provision for a commerce court been stricken out, but President Taft and the republican leaders in the senate insisted on its retention. The main provisions of the bill are as follows: It provides for the creation of a new court of commerce for the consideration exclusively of appeals from orders of the Interstate Commerce Commission, the court to consist of five judges, the first five appointed by the president, the subsequent judges to be appointed by the chief justice of the supreme court. The long and short haul clause permits a greater charge for a short haul than for a long haul, when the short haul is included within the long haul, only when the Interstate Commerce Commission grants permission. The Interstate Commerce Commission is given authority to determine the reasonableness and propriety of all new rates, regulations and classifications of any common carrier, and pending a decision a suspension of ten months of the proposed rate, regulation or classification is provided for. Telegraph and telephone lines are placed under the jurisdiction of the Interstate Commerce Commission and strict measures apply against the usage of franks and passes. President Taft expressed himself as greatly pleased at the passage of the measure, while the

amendments were so generally satisfactory that both factions of the republican party, and the democrats as well, are satisfied with the bill, which now goes back to the house for adoption in its amended form.

ACASUAL remark made by President Taft during his speech before the students of the Ohio Northern University was made the excuse for rumors in Wall street of panic to come some time within the next ten years. President Taft was telling the young graduates what they might expect in life as to business pursuits and the various professions. To those who propose to go into business he merely gave voice to the customary advice that conditions of prosperity must not be expected always. He was surprised on arriving in Detroit the next day to learn that Wall street had pounced on this statement as the prediction by the president that the present prevailing prosperity was destined to end. President Taft had no such idea in his mind and was greatly provoked at the outcome of what was simply a truism uttered in almost every commencement address by every speaker. The president delivered another address in Detroit, in which he discussed the conservation problem. He declared that conditions in Alaska do not speak well for the United States. For instance, "they are paying \$10 and \$12 a ton for coal up there, when there is an abundance to be mined right at their doors. We ought to stir ourselves and do something to help out this wealth that nature has bestowed upon us, so that we ourselves may enjoy it and that we may secure it to posterity. But certainly we should not shut out the present generation entirely in dealing with our natural wealth." The president hopes, first of all, for a law definitely ratifying the right of the executive to withdraw power sites and various classes of public land from public entry under the homestead law, pending legislation for their disposition under various restrictions, which he has already outlined from time to time.

ITALY was visited by a cyclone and an earthquake both, one day last week. The earthquake affected practically the whole of southern Italy, as well as a portion of Tuscany and Venetia in the north. The main damage was done in and around the town of Calitri, a region which has suffered much in the past from earthquakes. Thirty people lost their lives in last week's disaster. Immediately on receiving news of the shock the king and queen left for the scene, the queen stating that her presence was necessary in order that her people might not suffer. "It is my place to go, as a woman and a mother," she declared. It will be recalled that following the earthquake disaster at Messina the queen proved of great help to her people and did much to alleviate suffering and to bring order out of chaos. The cyclone affected Sardinia, the largest island in the Mediterranean after Sicily. The island was completely ravaged, the damage being estimated at \$2,000,000.

THE most serious uprising which the Mexican government has had to deal with in a long time occurred last week in the state of Yucatan. Mexico rushed large numbers of troops into the disturbed area, but before they could arrive there were numerous outbreaks and much blood shed. Five thousand Indian insurgents sacked one of the largest towns and carried things with a high hand. Mexico has been accused of running affairs in Yucatan in an arbitrary and even tyrannical manner for some time. One of the standard magazines of this country has published a series of articles alleging that Mexico maintains a system of peonage,

which is practically slavery, and has degraded the Yaqui Indians and made of Yucatan a deportation ground where barbaric practices prevail. The outbreak lends credence to this contention, although it has been indignantly denied by Mexican officials. The situation seems to call for an immediate investigation.

THE grain-belt farmers who have been going to Canada in such large numbers in recent years are beginning to return home. In the fiscal year 1909, the departures to Canada from United States points aggregated 72,349 persons, of whom 41,871 were citizens. Of the latter, fully 15,000 have already returned to the United States. This considerably offsets the Canada movement. For the nine months which ended March 31st of this year, 46,200 United States citizens have gone to Canada. The desire for homesteads led to an unusually large influx of homeseekers in the Northwest this spring. Train loads of settlers have been pouring into Montana, Oregon and Washington, while even larger numbers have been seek-

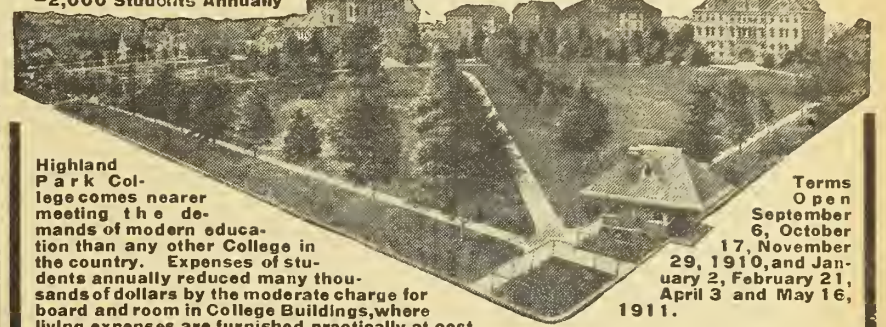
ing the milder climate of the Southwest. A large proportion of these homeseekers are city people with little or no knowledge of farming, lured to the land by the glowing tales of farm prosperity.

BIG prizes for aeroplane flights continue to be offered, since Glenn H. Curtiss won \$10,000 by flying from Albany to New York. A prize of \$30,000 is offered to the first man who flies in a heavier-than-air machine from New York to Chicago, while \$25,000 is offered for the first person to make the trip by air from New York to St. Louis. Entries must be made before the first of August, and the flights take place before the first of November. Mr. Curtiss will try for these prizes, but before that he will try for a \$10,000 prize offered for a flight between Cleveland and Detroit via Put-in-Bay. The greatest interest continues to be manifested in flying. A school of aviation is being conducted in France, with scores of men, and even some women, from all over the world learning how to operate aeroplanes. Army officers, automobile

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CIVIL SERVICE—A Full Course in Railway Mail Service. Classes organized September 6, November 29, 1910 and January 2, 1911.

HOME STUDY—Over 7,600 Students Enrolled in the Correspondence School. Almost any subject you wish by correspondence.

SUMMER SCHOOL—The Summer School opens June 13, 1911. Special work for all grades of teachers.

EXPENSES—Board, \$1.75, \$2.25 and \$2.75 per week. Tuition in College, Normal and Commercial Courses, \$18 a quarter. All expenses three months, \$55.40; six months, \$98.75; nine months, \$143.60. Send for catalog.

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DRAKE UNIVERSITY

Drake University is twenty-nine years old, has eleven buildings devoted exclusively to school purposes, employs more than 150 instructors, and has an annual attendance of more than 1,800 students. The University is located in the best suburb of "Beautiful Des Moines," with easy access to every point of educational and religious interest in the city. Library facilities are unexcelled in the West, living expenses are moderate and opportunities for remunerative employment are unusually good. School in session throughout the year.

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DRAKE UNIVERSITY, Des Moines, Ia.

and bicycle racers and the gilded aristocracy are all taking lessons from such men as Blieriot, Farnam and Latham. The Wright brothers have not been doing much lately, but it is expected that they will participate in the New York, St. Louis and Chicago races.

O HENRY, probably the best known short-story writer in the country died during the week. Mr. Henry was an exceedingly modest and retiring man and but little was

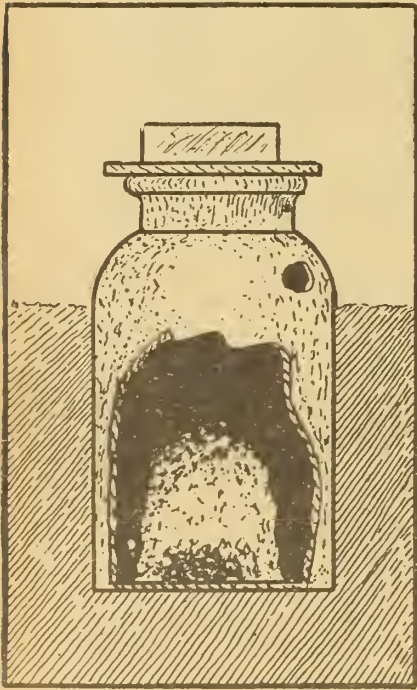
known of him personally, although he has contributed several hundred stories to the leading magazines and has written a half dozen popular books. He was a product of the Texas ranges, having been a cowboy, sheep herder, druggist and an extensive traveler before his writings in the Houston Post attracted the attention of the literary world. His death followed an operation. He was forty-six years old and apparently good for a number of years and hundreds of more popular short stories.

HINTS·SUGGESTIONS·DEVICES

WE extend a special invitation to our subscribers to assist us during the coming months in making this department better than ever. Please send along a description, accompanied by a drawing, of any handy device you may have around the farm, or something that is connected with the home.

A Novel Rat Trap.

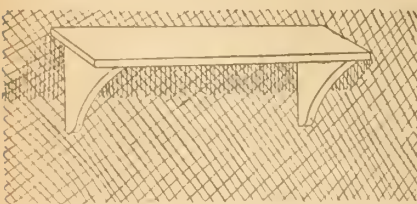
An ingenious and rather mischievous twelve-year-old Barton county, Mo. boy found a two-gallon old-fashioned fruit jug or jar that had been thrown out by his mother, and while playing in the yard close to a grain house dug a hole and buried the stone jug as shown in the accompanying cut. He next got his hammer and made the hole shown at the top and just



above the ground. He next placed some shelled corn in the bottom of the jug and a board on the top, which was held in place by a heavy stone. The side has been broken away in the drawing to better illustrate the idea. The jug was forgotten for several days, when the farmer found it and, wondering what it was, raised the board and found nine full-grown rats in the bottom and four mice. The trap has now been in use for some time and is opened every day or two and never fails to have from one to five or six rats and mice in it. As the idea is play for the boys, several other boys in that section have made one or more of the traps, and in every instance they report that the traps get the rodents.

Wall Shelf.

A neat and very easily made wall shelf may be made from inch stuff, as illustrated. It can be attached to almost any wall, with a couple of

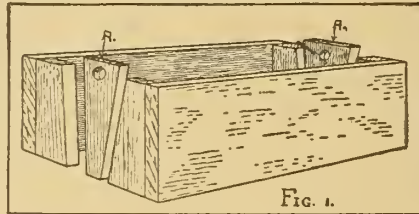


nails or screws, and when neatly painted or papered makes an ornamental as well as useful convenience.

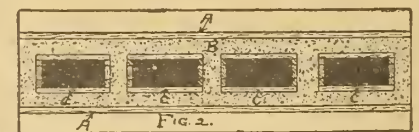
About Cement Walks.

Cement has found much favor with the farmer and many of us could not

now run the farm without an occasional sack of cement. Cement, however, has its faults like everything else. Concrete has great crushing strength, but its lack of tensile strength has made it necessary to build walls much thicker than absolutely necessary to carry the loads. And, again, the farmer does not care to go to the trouble of making cement blocks when he wishes to build some small building, but at the same time he would like to have a hollow wall similar to a wall built with hollow blocks, as he has learned that the same is much warmer, much cooler



and apt to be much drier in damp weather. A practical idea for building a monolithic or poured, so-called solid wall and at the same time have a hollow wall is herewith illustrated in Figs. 1 and 2. Fig. 1 shows how the cores are made for forming the hollow spaces and Fig. 2 shows a short section of wall with the cores in place in the wall. The construction of the cores is very simple: Good, strong lumber should be used and the cores should be some taller than the



section of wall will be built at any one time. The center pieces (AA in Fig. 1) have holes in the top ends through which a short stick may be placed for removing them when the cement has hardened. In Fig. 2, AA is the outside form into which the cement is poured; B is the cement, and CCCC shows four of the cores in place, which leave, after they are removed, hollow spaces of any size to suit your fancy. The cores should not be over twenty inches long in any case and in some small walls they should be less. Their size, otherwise, will, of course, depend on the thickness of your wall. Be sure and have the keys (AA in Fig. 1) well tapered

so they will come out readily. In case any great weight must be borne by a certain point in the wall, that particular space may be filled with concrete to bear the load. This method will be found not only practical and easy, but it will save much material. Construction along this line will be found suitable for any building from a smokehouse to the largest barn or foundation.

IOWA'S PRIMARY ELECTION.

The primary election in Iowa last week resulted in the republicans nominating B. F. Carroll, of Bloomfield, for a second term as governor, while the democrats chose Claude R. Porter, of Centerville, as their standard bearer. In six of the eleven congressional districts the so-called "progressive" element of the republican party had no opposition to its congressional nominees. In two of the remaining five the "progressives" or "insurgents" were successful in nominating their candidates. In three of the eleven districts the so-called standpatters won out, Kennedy in the first district,

Towner in the eighth and Smith in the ninth winning over their "progressive" opponents. For the republican nomination for attorney-general, on the face of the unofficial returns, George Cosson has won out. Mr. Cosson was a member of the senate at the last legislature and was the author of several bills designed to make law enforcement the order in the state. David J. Palmer was an easy winner for railroad commissioner. In the seventh congressional district Judge S. F. Prouty secured the congressional nomination over Capt. J. A. T. Hull, chairman of the military affairs committee and one of the most popular and efficient members of the Iowa delegation in the house for many years past.

Both factions of the republican party are claiming to dominate the state convention, which will be held in Des Moines, August 3d. This convention will be important, inasmuch as it will show where Iowa stands on commending or condemning the Taft administration and the position of the two Iowa senators on the tariff and other vital problems.

Beware of the Mail Order Buggy Evil!

Your buggy is an investment of good hard dollars. You can't afford to take chances on a vehicle you never saw. That's just what you do when you sign your name to a letter agreeing to receive a vehicle direct from the catalog house. Beware of getting promises of the "free trial," "return privilege," etc. When a mail order house sends you a vehicle, you become responsible for it, and they expect you to keep it; else why do they send it to you? They are not in business for health. Try to send a mail order vehicle back and see what trouble you'll have! People everywhere have been caught by the mail order evil. Avoid it!

Go to Your Local Dealer—See The Reliable Michigan Line

Quality for quality, your Reliable Michigan dealer will sell you a vehicle as low or lower than you get any vehicle by mail. You don't have any freight to pay when you buy of the Reliable Michigan dealer.

Your Reliable Michigan dealer—a man you know—is there all the time to come back to, in case you are ever dissatisfied. We authorize him to make good any defect of workmanship or material, not only in one year, but any time after your purchase.

Our vehicles are made of the finest woods, milled in our own leased forests under the supervision of master lumbermen.

So carefully are these woods selected and seasoned that it is three years from tree to buggy. We do not "assemble" vehicles from parts made in little shops here and there. Every Reliable Michigan vehicle is built from the ground up, in our own factory. Many of our carriage builders have been with us over a quarter of a century.

256 Styles to Select From

In the Reliable Michigan line you have a selection from 256 models—every type of horse-drawn pleasure vehicle made, and scores of our own exclusive design. So well equipped is our big factory to turn out special patterns that we can fill any customer's special order, through his local dealer, in the quickest possible time. Write us and we will send you our new Catalog "A," showing our newest types and patterns, the handsomest you ever saw.



No. 149
New Autostyle Buggy, Twin Auto-Belgian Type Seat

MICHIGAN BUGGY COMPANY, 219 Office Building, Kalamazoo, Mich.

We also Manufacture the famous Holdfast Storm and Stable Blankets, in which the Reliable Michigan Standard of quality is rigidly maintained. (7)



in stock at all times for their customers. If not for sale in your town, write us and we will mail you samples and quote you prices delivered your station.
Capital Paid in \$1,000,000.00

INTERNATIONAL SUGARED HOG FEED

FATTENS HOGS RAPIDLY. KEEPS BROOD SOWS IN FINE CONDITION. IT MAKES PIGS GROW RAPIDLY

You must have a properly balanced ration to make money in raising hogs. If you will use one-third International Sugared Hog Feed and two-thirds corn you will have a properly balanced protein and fat ration for your brood sows and shoats. You will make an extra profit of \$25.00 to \$30.00 for every ton of International Sugared Hog Feed that you will substitute for corn in that proportion.

The International Sugared Hog Feed is rich both in protein and sugar. One ton of International Sugared Hog Feed costing you \$35.00 per ton and two tons of grain will produce more gain on shoats or fattening hogs than could be obtained from four to five tons of grain alone. In these days of high prices, scientific feeding has become a necessity and wasteful methods cannot be followed except at a loss. Scientific feeders are making money while those who pay no attention to balanced rations are incurring losses.

Up-to-date Dealers are buying this feed in carlots and carry a good supply. If not for sale in your town, write us and we will mail you samples and quote

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OUR LEGAL DEPARTMENT

THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

DISCRIMINATION IN WILL.

An Iowa Subscriber.—A died leaving his widow \$5,000 and a small tract of timber land, and town property valued at \$2,500, and bequeathed to a son and daughter of a former marriage \$100 each, and gave the residue of his estate amounting to \$40,000 worth of property to two daughters. Five years previous to his death he conveyed to two sons eighty acres and 160 acres of land for about two-thirds of its actual value. He referred to this fact in the will, declaring it was his intention thus to reward them for long years of faithful toil. (1) Does the fact that the two sons were bequeathed nothing by the will give them a claim against the estate? (2) The daughter by the former marriage remained at home till she was twenty-two years old, receiving only her board and clothing. Is she entitled to wages? (3) The son by the former marriage remained at home till he was twenty-three years of age, receiving wages after he was of age. Does the smallness of the bequests made him and his sister give grounds for their claiming larger portions?

Answer.—(1) It does not. If a man is of sound mind and not under duress or undue influence, he may lawfully make a will which will disinherit a child or children, and the mere fact that he does this, gives such child or children no cause to set aside the will. (2) A child who remains at home and works after it is of age, living with its parent, is not entitled to wages from the parent's estate, unless there was an express contract between them to that effect. (3) The fact that one or two children get very small bequests, while others get large ones, does not give the former any lawful claim to have their portions increased.

DUTIES OF ADMINISTRATOR—FUNERAL EXPENSES.

A Subscriber, Perry, Iowa.—(1) A is administrator of an estate and B is his attorney. In a certain lawsuit concerning the estate they hunted up witnesses and appealed for a new trial without the knowledge or consent of the heirs, and worked in favor of the defendant, and the heirs refuse to pay the witness fees and costs of the appeal. Did the administrator and his attorney have the right to make such expenses for witness fees and cost of appeal? (2) A's father died at the home of D, a relative, and D engaged a certain man as funeral director who testified before the jury that funeral expenses amounted from \$125 to \$135, but he brought in a bill to the administrator for \$190 for A's funeral, and the administrator paid it against the will of the heirs. Had he a right to do so? (3) What amount would the court allow for funeral expenses?

Answer.—(1) The approval and allowance of claims against an estate is

largely within the discretion and power of the administrator, and the heirs have nothing to do with it before the court; but if an administrator allows claims fraudulently, or otherwise mismanages the estate, the heirs can sue him on his bond and recover against him and his bondsmen. (2) Same answer applies to second question. (3) The court does not fix amount to be allowed for funeral expenses.

CORPORATION ISSUING STOCK—TELEPHONE COMPANY.

Mr. A. D. Scott, Burchinal, Iowa.—A rural telephone company organized and put in twelve telephones, and afterwards incorporated with capital stock of \$2,000, with shares at \$40 each, and issued one share to each owner of a phone. (1) If the company issues more shares must it first get permission from the secretary of state, or simply notify him after the shares have been issued? (2) Can a telephone company incorporated under the laws of Iowa, lawfully refuse to transmit or receive a message from a connecting line?

Answer.—(1) The law provides that no corporation except building and loan associations shall issue any capital stock or any certificate or certificates of shares of capital stock, or any substituted therefor, until the corporation has received the par value thereof. And if it is proposed to pay for said capital stock in property, or in any other thing than money, the corporation proposing the same must apply to the executive council of the state of Iowa for leave to do so. Such application shall state the amount of capital stock proposed to be issued for a consideration other than money, and set forth specifically the property or other thing to be received in payment for such stock. The executive council then investigates, and decides what the corporation shall do in the matter. See session laws 1907, page 75. (2) It cannot lawfully refuse to take or transmit messages from connecting lines, upon payment of its lawful charges, and if it so refuses, it forfeits its rights as a company.

RIGHT OF WAY ACROSS RIGHT OF WAY.

A Subscriber, Morehead, Kan.—We have in this vicinity a rural telephone line, running along the public road and crossing a railroad track. A telephone pole is set at each side of the right of way, which hold the telephone wire crossing the right of way at a height of about thirty-eight feet at the top of the rails. The railroad company wants us to get permission from it to cross the right of way, and to give bonds to cover all damages that may be caused by our wire. Can the railroad company compel us to comply with such conditions?

Answer.—You must either get the railroad company's permission to use a right of way across its right of way, or else commence proceedings to condemn your right of way across the railroad right of way. It seems to us that the railroad company is not demanding a hardship on you, to require bond or security that will cover damage which your wire may do. If the company grants permission on such terms, it is much better than to law about it.

NO RIGHT TO FISH ON ANOTHER'S GROUND.

A Subscriber, Essex, Iowa.—A owns a farm on the river bottom. The river runs through the farm, and it is fenced. Signs have been put up forbidding trespassers. Has B a right to enter A's field in order to fish in the stream?

Answer.—B has no right to enter A's field for the purpose of fishing in the stream, nor for any other purpose without A's consent. He has no right to go along the banks of the stream on A's ground without permission and A can treat him as a trespasser when he does so.

DAMAGES ABOUT SEED CORN.

A Subscriber, Villisca, Iowa.—For several years I have been selling seed corn and have never had any complaint about it till recently. All the seed corn I sold this year was tested in a tester recommended by the best authorities on corn, but one of my customers claims that the seed corn he bought from me will not grow and that he is compelled to replant his field and that the corn he saved himself, planted under the same conditions, is growing well. He wants me to agree to make good the loss he may suffer on account of the corn failing to grow—that is, the extra labor which he has had to do, price of seed, etc. What would you advise me to do?

Answer.—If your customer should sue you for damages on account of the corn failing to grow, he would have to prove that the failure was in the corn itself—that it would not grow under proper conditions. If he could establish this fact by proof, he could recover damages—how much it is difficult to say. If he could not prove this fact, he would lose his case. In any event, his case would be hard to win, as there were many unusual conditions last spring. However, a lawsuit is always expensive, and often it is prudent to compromise, where the terms are not too hard.

GYPSY BANDS—DAMAGES.

A Subscriber, Sutherland, Iowa.—I live just outside the town limits. Bands of gypsies and horse traders are roaming about in the vicinity and are becoming so numerous that they are an intolerable nuisance. They camp in my neighborhood along my premises, and tie their horses to my trees and fences and turn their horses loose and feed down the grass along the roadway. What can legally be done about it?

Answer.—You are entitled to the grass and herbage growing on that part of the public road which was taken from your land, and you can sue the persons who graze stock upon it, for trespass, and recover damages. Also if the gypsies wilfully injure any timber, tree or shrub on your land, or in the highway in front of it, or injure your fences, you may complain to a justice of the peace, and have them arrested and punished; the penalty for such offenses is a fine not exceeding \$500, or imprisonment in the county jail not exceeding one year.

Many who used to smoke 10c cigars now buy Lewis' Single Binder straight 5c.

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Gives perfect ventilation in your barn. Constant up-draft gives fresh air circulation for your live stock. Rain and snow cannot beat in and spoil your hay and grain. Birds cannot get in—Saves you money—Costs less than wooden cupola, fits any barn, easily put on; each cupola furnished with gold leaf weather vane.

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Complete Detailed Plans FREE

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Write us today and we will provide you with the plans at once, free of charge. We will also send you regularly, without charge, the *Farm Cement News* which tells all about concrete construction on the farm. We make this free offer because we want farmers everywhere to learn the advantage of concrete over high priced lumber construction. Almost everything on the farm nowadays can and should be built of concrete. Cement is easy to use, economical, everlasting and fireproof. The progressive farmers in every community are adopting cement and are thus setting the example for all the farmers in the neighborhood.

Write for the plans today, telling us which one you want.

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Annual Output, 8,000,000 Barrels

A Happy Day

Follows a breakfast that is pleasing and healthful.

Post Toasties

Are pleasing and healthful, and bring smiles of satisfaction to the whole family.

"The Memory Lingers"

Popular Pkg. 10c.
Family size, 15c.

Postum Cereal Co., Ltd.
Battle Creek, Mich.

DEATH OF JAMES L. REID.

Thousands and tens of thousands of corn growers in the central West will be pained to learn of the death of Mr. James L. Reid, the originator of the well-known variety of corn known as Reid's Yellow Dent. In recognition of the services which Mr. Reid rendered to the great corn belt in improving corn, the faculty of the University of Illinois has placed on record the following resolution:

Whereas, death has called from his earthly career, James L. Reid, a benefactor to agriculture and to humanity, because of his life work on the improvement of our great American cereal, corn, and,

Whereas, it is the desire on the part of the college of agriculture of the University of Illinois to give recognition to the worth of this man and to the greatness of his service in the upbuilding of agriculture, therefore

Be it resolved, that we, the members of the agricultural staff, offer this testimonial of appreciation of the life of Mr. Reid, the nobility of his character and the greatness of his achievement.

The noble simplicity of his manner, the patience, the perseverance and honesty that characterized all his work, give in his life a constant source of inspiration and an example for emulation.

Resolved, further, that we extend to the mourning family our personal, heartfelt sympathy in this, their hour of bereavement. Those of us who have enjoyed the privilege of a personal acquaintance with Mr. Reid can well appreciate their loss.

Be it further resolved, that this word of testimonial be placed on the records of this faculty, and that a copy be sent to the family of the deceased, and also to the agricultural press.

Mr. Reid's interest in corn improvement began in 1846 when he moved from Brown county, Ohio, to Tazewell county, Ill., taking with him at that time a reddish variety of corn known as "Gordon Hopkins," which was widely grown in the vicinity where Mr. Reid had lived. In the hands of this skillful plant breeder this reddish variety of corn has been so improved that it stands without an equal today among all varieties of yellow dent. No other corn on the market has such clearly defined and fixed characteristics as the variety on which Mr. Reid had placed a lifetime of earnest effort. It would be exceedingly appropriate if the agricultural interests of the great central West should recognize the great work of Mr. Reid by erecting a suitable and appropriate monument in his memory.

THE IDEAL TYPE OF HORSE.

The type and characteristics of the draft horse of this day are in a process of unplanned revolution. Conditions under which the horse works are taking on new form that in turn make demands upon him for faculties not heretofore exercised, or if exercised in so small a degree as to merely prove their latent existence.

The environment which developed the massive, sluggish-spirited cart horse of the old countries have no equivalent in American commercial industry. Modern systems of pavements now to be found in all cities and practically every county seat town of the country, while enabling the horse to utilize aggregated pounds, make additional demands upon him which, if satisfied, must effect decided change in the energy and nervous make-up of the animal. The call is for a wide-awake alertness, greater intelligence and more spirit—or, as we frequently hear it put, more "nerviness." The heavy horse with his "wits" about him is less subject to injury on crowded slippery pavements than the sluggish one of dull intelligence. The faculty of taking care of himself under difficulties also enables such a horse to do a greater amount of work in less time.

Buyers of draft horses for the best markets make liberal discriminations in price in favor of the heavy horse that has energy, wide-headed intelligence and an inclination toward quicker action. Good sense takes a good horse out of the class in which the price is governed merely by a per pound basis.

Improved country roads have also led to a greater appreciation among farmers of the heavy horse possessing more active temperament. Hauling greater loads in shorter time is an important object to most farmers.

The engraving which appears on page 3 is from an actual photograph taken by our staff photographer on the farm of one of our more enterprising subscribers. The animal shown is a most excellent representative of the popular and profitable type of draft horse, with the added essentials of style, action and well-controlled nervous energy. His short back, round barrel, broad loins, deep and heavy shoulders, wide and plump chest and long and powerful quarters are an instructive study on the symmetry of proportions. The clean-boned limbs speak for themselves of the perfection of strength they are capable of. While all these stand in the aggregate as a very near approach to ideal type, their attractiveness is really subordinate to that of the air of splendid intelligence induced by the well-formed head, quick ear, alert eye, and beautifully arched neck. These invest him with the charm which, in the Arab, make him at once a proud possession and a valued friend. They surround him

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

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WHEAT! WHEAT! Come, help us feed the hungry world. Here, in North Dakota's richest section, a few great crops will make you independent. Send for descriptions, illustrated folders showing what we offer you. See how easy it will be to make a start. Honest information. Rich soil, low prices, competing markets, every social advantage. But, don't wait. Lands are going fast. Write today. Agents wanted everywhere. Shipley Investment Co., Box 303, Hampden, Ramsey county, N. D.

FARM FOR SALE—Quarter section land, one and one-half miles from town, has rural route, telephone; all level, tillable; with large orchards, timber, small fruits, tame grasses, alfalfa, blue room house, cellars, large barn, granaries, flowing wells, milk house, chicken houses, cribs, fences, etc. To close an estate priced at \$125 per acre. Address Mrs. I. Michael, Beaver Crossing, Nebraska.

296 ACRES good clay land close to Big Horsehoe Lake, on main highway and R. F. D., near turtle Lake, Wisconsin. If taken at once, \$2.50 per acre down, balance of \$7.50 on long time, 6%. First class soil; easy clearing; great grass land; a snap. Address Owner H. B. Box A, St. Croix Falls, Wisconsin.

SEMI-TROPICAL LANDS in Southern Nevada. California climate excellent. Unlimited artesian water. Soil produces \$125 net per acre upwards. On main line R. R. Sure profits under our limited offer. Send for pamphlet. Vegas Irrigated Lands Co., Las Vegas, Nevada.

BUY INDIAN inherited lands on Cheyenne Reservation, South Dakota. Sold through Indian Department under sealed bids. Safe opportunity to double your money or buy good farm from \$5 to \$15 per acre. Write to George Thwing, Lawyer, Le Beau, South Dakota.

2,920 ACRE North Dakota farm; 1,700 acres in crops; 300 acres in natural timber; balance hay meadow and pasture; new ten room house, large barn and other buildings. Snap at \$22 for quick sale. Write for particulars. E. A. Pelton, Aberdeen, South Dakota.

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THE BEST alfalfa, grain, fruit and cantaloupe land in the famous Arkansas Valley; climate unsurpassed; excellent water supply; perpetual right; prices low; terms easy. Write The Ordway Land Co., Ordway, Colorado.

NORTH DAKOTA LANDS on ten years' time, crop payments at 6 per cent interest. Stutsman Co. Rich soil. Map and particulars on request. Address Frank L. Kellogg, Cleveland, North Dakota.

BIG CAMAS Prairie has the soil, pure water, healthful climate, and through railroad coming. Relinquishments, \$500, \$2,500. Fred Orr, the Land Man, Soldier, Idaho.

MINNESOTA corn belt farms are the best buy on the market today. Send for our list. Ericson Land Co., 411 Palace Bldg., Minneapolis, Minnesota.

CASH for property, any kind, anywhere. If you want to buy, sell or exchange, address Northwestern Business Agency, Minneapolis, Minnesota.

FOR SALE—Four well improved farms, with artesian wells; 450, 450, 640, 800 acres. Close to Crescent. C. Sippel, Paulkton, South Dakota.

OLD VIRGINIA farms for sale. Send for free illustrated catalog; largest list in Virginia. Casselman & Co., Richmond, Virginia.

LINCOLN COUNTY joins Sioux County, Iowa. You can buy or rent farms on easy terms. Thos. Brady, Worthing, South Dakota.

IF YOU WANT to trade your land for good income property or a business, write Hazlett's Land Agency, Marion, South Dakota.

ADDRESS Homeseekers' Information Bureau, Pierre, South Dakota, for truthful information about Dakota lands and homesteads.

150 CORN and alfalfa farms for sale in Saline Co., the garden spot of Kansas. Write for list. V. E. Niquette, Salina, Kansas.

BEAUTIFUL improved Iowa 240-acres, rental \$5 cash at \$85. Write S. Sanders, Sioux City, Iowa.

with the atmosphere of the king which he is. Long live his kind.

Williams' Aberdeen Angus Sale.

The public sale of Aberdeen Angus cattle in the herd of Mr. James Williams, of Marcus, Iowa, took place on June 9th under discouraging circumstances of a rainy day which kept away both local and foreign bidders. However, forty-seven head were disposed of at an average of \$186 per head. Buyers were present from Nebraska, North Dakota, Illinois and Iowa. The promising six-year-old cow, Afton Blackcap, topped the sale, going to Messrs. Escher & Son, of Botna, Iowa, at \$110. Mr. John W. Reedy, of Beresford, S. D., topped the bull sale by paying \$275 for Blackbird Bobbie. Mr. J. M. Hathaway, of Turin, Iowa, was one of the most conspicuous buyers, his choice running largely to cattle of the Blackbird family. Other buyers included the following gentlemen: M. D. Finch, Sheldon; M. A. Martin, Wall Lake; L. H. Lamar, Storm Lake; W. H. Jones, Quimby; Harvey Hess, Waterloo; Stanley Pierce, Creston, Ill.; Christian & Land, York, Neb.; O. R. Stevenson, Quimby; Will Smith, Quimby; R. M. Anderson & Sons, Alta; Ray Wills, Quimby; L. W. Neudeck, Ft. Dodge; H. J. Rolfsen, Marcus; M. W. Kiser, Paulina; Wm. Sommerer, Craig, Neb.

Mr. W. C. Breedlove, of Chester, Iowa, is offering Howard county, Iowa, farms for sale at from \$65 to \$90 per acre. See his advertisement on page 15 of this issue.

REAL ESTATE.

CANEY RIVER Valley home. Corn, wheat, alfalfa; the very best soil. Get out the old plodding community into this hustling new state, where man of moderate means has chance and the man of large means golden opportunities. I will sell you land right in the oil gas belt of Rogers County, Oklahoma. You stand good chance to make fortune on oil or gas. For particulars write W. B. Herriman, Room 14, Woodbury Bldg., Marshalltown, Ia.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 5c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Traer, Iowa.

SOUTH DAKOTA—Are you interested in South Dakota, the state that is leading all other states in the production of wealth per capita? If so, send for free literature on Brule County and South Dakota. No agents need apply. I sell direct to purchasers, who save from \$1 to \$5 per acre commission. J. A. Strausky, Pukwana, South Dakota.

800-ACRE stock farm, Osborne County, Kansas; 600 fenced; 200 cultivated; 30 alfalfa; 11 room house; barn, sheds and outbuildings; good building stone; timber for shade and fuel; 4 wells; 3 windmills; telephone and daily mail; \$50 per acre; terms. F. G. Kimball, Manhattan, Kansas.

FOR SALE—Several good sections of finest wheat land in Sunny Southern Alberta at \$11 to \$15 per acre; easy terms. Also improved farms. Write at once for full particulars. First class investment. Freeman, McLeod Company, Dept. 19, Box 679, Lethbridge, Alberta.

I WANT information immediately about a good grain or stock farm for sale. There is a good buyer waiting for it, willing to pay your price. Write me at once for full particulars. Address Arthur Capper, Dept. 43, Topeka, Kansas.

FOR SALE—Our 320-acre pure seed farm, 55 dollars per acre. Must be sold because estate has to be divided. Buy direct from us and save middlemen's expenses. Kadyk & Smith, R. R. 1, Pipestone, Minnesota.

BUY YOUR HOME in Williams County, North Dakota. Best soil; best climate in North Dakota; \$15 to \$25 per acre for improved farms. Call on or write P. K. Everson, Tioza, North Dakota.

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IMPROVED FARM, Grant Co., S. D. 450 acres, practically all tillable; part under plow; 7 room house; large barn; \$35 per acre. P. I. Neister & Co., Sioux Falls, South Dakota.

BUY DIRECT of owner, my farm of 142 acres, 3 1/2 miles north of Salem, Missouri. Best of soil and buildings. Route 2, Box 10, Salem, Missouri.

ALFALFA LANDS for sale in Central and Western Kansas; better than a gold mine, write us, Home Land Company, Herington, Kansas.

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FOR FULL particulars of a snap in a hay and stock ranch, address the owner, Geo. L. Dilworth, Crested Butte, Colorado.

FOR INFORMATION about the best land, in best districts, on best terms, write Croft Land Company, Matador, Texas.

300 CHOICE FARMS in Northeast Kansas for sale. Write for descriptive list. Manville & Bailey, Holton, Kansas.

WE CAN TRADE your property. Book of 500 exchanges free. Graham Brothers, Eldorado, Kan.

KANSAS FARMS, one fifth down, balance time Dillon & Woodward, Dill, Oklahoma.

HELP WANTED.

WANTED—Railway mail clerks, government clerks at Washington, D. C., city mail carriers and postoffice clerks. High salaries; short hours; annual vacations; steady work; common education sufficient. Examinations announced everywhere July 15th. Country residents eligible. Influence of any kind unnecessary. Over 15,000 appointments every year. Candidates prepared free. Write immediately for schedule, showing places of examinations. Franklin Institute, Dept. U. 23, Rochester, N. Y.

WANTED—Motormen and conductors for street cars, firemen and brakemen for steam railways. \$30 to \$150 per month. Hundreds of vacancies. Write for particulars. American Standard Institute, Kansas City, Missouri.

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PATENTS THAT PAY. The book contains 1000 instances in Patents—What and How to Invent, and 61 page Inventor's Guide. E. E. Vrooman, 512, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

ROE & ROE, Des Moines, Iowa. Branch in Washington. Send description of invention for free opinion.

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ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

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FOR EXCHANGE—Stock of merchandise and store building; value, \$11,000. Want good, small, well improved farm. Address T. care this paper.

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A FEW good registered Hereford cows with calves by side, for sale at farmers' prices. B. J. Wallace, Triumph, Illinois.

DOGS.

COLLIE PUPS, \$5 each. Address J. L. Myers, Almont, Iowa.

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TYPEWRITERS—All makes, all prices. Large stock of 22 makes to select from. Prices 1/3 to 1/2 manufacturers' prices. Slightly used and factory rebuilt machines our specialty; full guarantee. We ship on approval anywhere. Write for bargain list. B. E. Swanson Co., 222 Fifth St., Des Moines, Iowa.

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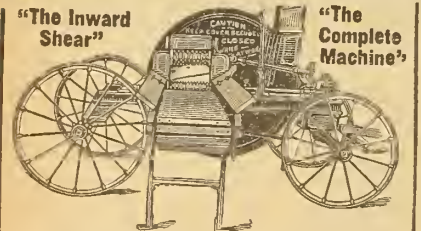
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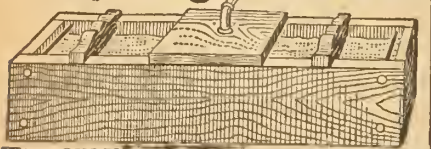


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On a Manure Spreader
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This is just a little ad—but a postal will bring my Big Book—and give you my \$50.00 Saving Price and Special Proposition. You can save as much answering this little advertisement as if it covered a page. My Spreader positively will do better work and last longer than any Spreader made—no matter what the price—so why pay \$50 more? 40,000 farmers have stamped their O. K. on my spreader and money saving price. My Special Proposition will interest you. Just a postal addressed to Galloway of Waterloo, Iowa, will bring you everything postpaid. Will You Pay a Penny For The Postal and Save \$50.00? Address Wm. Galloway, Pres. WM. GALLOWAY CO. 109 Galloway St., Waterloo, Ia.

"Only" Hog Waterer



THE ONLY does the business both winter and summer. No clogging, no overflow, no bother. We offer you a free trial. Write for booklet, "How to Raise 1,000 Hogs a Year." ONLY MFG. COMPANY, Lock Box 67, Hannibal, Iowa.

STRAWBERRY PLANTS—Special price June 20 to 30th; 100 prepaid 70c; 100, 50c; 300, \$1; 1,000, \$2.50. Circular free. Chas. J. Mackay, West Liberty, Iowa.

When writing mention this paper.



PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

TENDINOUS THOROUGHPIN.

I have a horse that has a puff inside his right leg, two inches above the knee joint. It is as large as a coconut and is loose from the bone. I feed oats and hay. Can you give me any advice as to how to get it off? It is a little hard.

There is a distension of the sheath of the tendon and this is called a "tendinous thoroughpin." Such a condition is found above the hock and near the tendon. If it is lower down at the front of the leg it is a bog spavin. Clip off the hair and blister repeatedly at intervals of three or four weeks, with a mixture of one dram of biniodid of mercury and two ounces of cerate of cantharides. Use half an ounce of this each time. Rub it in for fifteen minutes. Tie horse so he cannot lie down. Wash blister off in three days; then apply a little lard daily.

DROPSICAL SWELLINGS.

Will you please tell me what ails my mare? She is with foal and is due to foal September 27th. Her udder swells up every night and for the last few nights the swelling extends along the belly. She was worked until the last three weeks, but since then she runs in the pasture during the day and is stabled at night. She is fed hay and corn night and morning and is fat and seems in good health. I have had fifty years' experience with brood mares and this is something new to me.

Give her a roomy box stall in stable. She may be afraid to lie down in narrow stall and swellings are apt to form when that is the case. Stop feeding corn and substitute a light feed of oats and bran twice daily along with hay at night. Work her lightly every day or at least give her abundant exercise daily. It is overfeeding and lack of exercise that usually induce dropsical swellings in pregnant mares.

CURE.

I have a three-year-old colt that has a curb, which appeared after I had driven him on the road. I gave him two weeks' rest in the pasture and it almost disappeared and then drove him again with the same result. He has now had two weeks' rest again and it has almost disappeared again. I would thank you for some advice. Is a curb curable? If so, with what, or do you think if I allowed the colt to remain in the pasture it would leave him? I have used no treatment yet.

A curb is curable, provided rest can be given and the hind leg is not crooked, or "sickle" shaped, as it is called. Several times a day rub firmly down on the curb with a piece of smooth, hard wood or bone and each night wet the part with a mixture of one part each of tincture of iodine and turpentine and two parts alcohol. Do not clip off the hair.

ECLAMPSIA.

I wish you would tell me through your veterinary columns what is the matter with my hogs. If possible, give me the name of the trouble, the cause and how to cure it. I keep around eight or ten brood sows each year, and for the last three years after the sows had farrowed and when the pigs are about three to six weeks old some of them get down and become helpless. They have no use of their feet or legs and are as limber as a rag. They try to eat, some lying on their side, and I have to hold them up while they drink. They usually have a fair appetite and will stay this way during the greater part of the summer, then gradually get over it and fatten up in the fall. Two years ago I had three out of ten in this condition; last year, one out of seven; and this year, two out of eight. The rest of the hogs never seem to be affected and they all run together until they get down and then I have to pen them up in order to take care of them. Last year I thought it might run in the family, so sold all and bought new stock, but it is still the same. Their pigs never seem to be affected even while nursing, and they all have big litters. I have raised hogs for ten years, but never had any trouble until the last three years. I have a good, dry hog house, four acres of pasture with running water through it, where I keep the hogs all the year round. From the time the sows are bred they get one feed of corn a day and one of oats, together with some milk and other swill. I have the full-blooded Duroc Jersey reds. Have never tried any treatment except once I thought it might be something about their back and I poured turpentine on their back

over the kidneys, but it did no good. They come down with it in about a day's time, but are very slow to recover from it. Any information on this will be gladly accepted.

This is a form of paralysis of a nervous character seen in pampered sows that have received too much feed and too little exercise so that they are fat and soft and usually irritable, nervous and constipated. It may be wholly prevented by stopping corn as a ration or part of ration for the pregnant sows and feeding them on roots, such as mangels, and alfalfa hay. A little slop of skim milk, middlings and limewater may be given as an adjunct feed. Keep the bowels freely open at all time, allow abundant exercise. Feed very lightly after farrowing. Feed and manage to insure muscle and stamina rather than fat and sluggishness and these cases will not occur.

CURING POLL EVIL.

To the Editor of The Homestead:

I notice that Farm Furrows has a horse that has poll evil. About twenty years ago I had the same experience that you have. Three farriers failed to cure her and pronounced her as being incurable. Mine was a six-year-old mare weighing 1,300 pounds and as nice a mare as one would wish to see. She developed into a halter puller, and had a bad poll evil on each side of her head. After the farriers gave up, a couple of my neighbors thought they could cure her, but she was high-strung and became vicious and tore the barn down for one of the gentlemen and came home literally "cleaning out the whole ranch." By this time she was about as tractable as a female lion and as stout as a moose. I was not able to lose her or I would have shot her, as her head was one solid mass of corruption. But I resolved to try to cure her myself and did so, keeping her neck as limber and nice and straight as any horse. The mare lived to be twenty years old and was always kept in this vicinity, and was entirely and permanently cured. An old Pennsylvania Dutchman in Wisconsin told me how to cure her when I was back there on a visit. I took the formula down in all details and just as I began to plow for corn I began. I had to put her in a stall "end for end" and chain her there where she could not back and so she could not strike, bite, or kick me. Two "twitches" on her nose and two strong men to hold her head. I knocked a board off the barn where I could stand outside, and in this manner I managed to wash her head. Part of the time I petted her and finally I took a piece of an oak board and we had a matinee. She was so vicious that she attempted to kick and strike when no one was touching her, owing to the fact that she had been fooled with so much. I tell these details, for I would not try to cure another horse with such a temper, although I made a horse of her before I got through with her. Now for the treatment: I made five or six hickory sticks about six inches long, whittling them smooth, about a quarter of an inch in diameter, stripping some cotton cloth into strips an inch wide. I wet them and beginning at the end of a stick wound them with this cloth, and then feeling for the pipes I would gently work down to the bottom of them, swabbing them out thoroughly and then leave the stick in the pipe, take another, and do the same thing, until I had them all treated in this way. There were five pipes in all and each about six inches long. The poll evil had run as long as six months and perhaps longer. Now I took pulverized blue vitriol, very fine, and some more strips of cloth, wet the cloth and poured the vitriol along the whole length of it, and split the end of the stick very slightly, just enough so it would carry the cloth with it in

inserting it into the pipe, wound that around the stick as I had before, keeping the vitriol inside next to the stick and turning this stick to the right as I worked it into the pipe, kept at it until I had it clear to the bottom. Then I turned the stick to the left and gradually unwound it, leaving the cloth and vitriol clear at the bottom, with the other end of the string sticking out enough so I could get hold of it with a pair of pinchers. Then I served each of the other pipes the same way. It took me over two hours with that vicious brute to get these rags all in their places; then I took an old apron and tied it around and round the neck so the mare couldn't get the strings out and then tied the mare so she could rub on nothing whatever with four different ropes in each side, above, and below and fastened a log chain behind her so she could not back. About midnight I heard the music begin. The vitriol was working and so was the poor horse, but it was a desperate case and required desperate remedy. She was nearly crazy, being of such a nervous temperament. So I harnessed her and putting her on the "swing" on a sulky plow with a jockey stick so she could not get against the other horse, I went out and started to plow. She was better off plowing than standing still, and I worked until noon a great deal harder than I wanted to, but I had a wild horse to drive. At noon she would eat nothing, but drank a couple of pails of water and soon she was tearing around again, so I hitched up another team and putting her in again and plowed until night. By this time the vitriol had ceased to burn, and I stayed up all night to see that she did not rub the rags out of those pipes, for six months' experimenting had taught me that the entire pipe must come out or it will break out again, and by the way, it had been healed once, but broke out after a week or two, worse than ever. Well, the next morning I got my crew together again, but we had no particular trouble to get her head undone and there was no discharge; on the contrary, it was all black as though it had been burned. I took the point of my knife and pulled those pipes out—entire—not a particle was left in. Then I took some more cloths like those used before, and soaked them in sweet oil and filled the places where the pipes had been, full, and then did her head up again as before. The mare began to eat and did not try to fight any more. I kept the rags in to make it heal at the bottom of the pipes first, as there would be pus form again if I did not. I think that I only replaced the rags soaked in oil once, as it healed rapidly, and the mare was as good as ever. I don't want to doctor any other such horse as that, but it proved to me that but one thing is necessary, and that is to get the pipes entirely out, and then keep the holes well plugged with oiled rags and keep them in until it heals from the bottom first. With a horse of ordinary disposition I see no reason why it should hurt them much, except when the vitriol is getting in its work, when, of course, it will burn them like fire while it is working. This article is not for publication, as I have gone into details and write it more as though I were talking to you. I am sure you can cure your horse in this way, but it is a "big job" and a nasty one. Subscriber.

Kendall's Spavin Cure

THE cure that saves horsemen and farmers millions of dollars every year. Nothing equals it for Spavin, Curb, Splint, Ringbone, Bony Growth, or any Lameness. This man says:

"Used 25 Years; Great Success"

"Please send me copy of your 'Treatise on the Horse.' I have been using your Spavin Cure for the past 25 years, with the greatest success."

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Keep your horses at top condition all the time. Don't worry about that spavin or other growth, cut, swelling or lameness, but use Kendall's Spavin Cure. Keep a bottle for emergency use. It has proven itself to be the world's greatest liniment for man and beast. Sold by all druggists. \$1 a bottle; 6 for \$5. Get the book, "Treatise on the Horse," free, of druggists, or write to

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An Absolute Cure for Moon Blindness (Ophthalmia), Cataract and Conjunctivitis. Shying horses all suffer from diseased eyes.

A trial will convince any horse owner that this remedy absolutely cures defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO" under our GUARANTEE. Money refunded if under directions it does not cure. \$2.00 per bottle, postpaid on receipt of price.

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keeps horses, dogs and cattle comfortable in hot weather. It destroys the parasite that causes mange; it produces a healthful condition of the skin and

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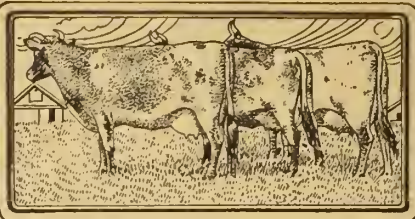
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DAIRY



All communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

CANE HAY FOR MILK COWS.

A subscriber from Red Oak, Iowa, sends the following communication:

I would like to ask through the columns of your paper if cane makes a good hay for milk cows? If so, at what time should it be planted and at what stage should it be cut to be the most palatable? How much seed is to be sown to the acre?

Cane may be seeded as late as the first of July with the reasonable expectation of getting a satisfactory crop. Ordinarily, however, it is sown between the first and middle of June. It makes a very satisfactory hay for milk cows, though of course it is not as rich in protein as clover or alfalfa. It is very palatable, however, and where bran or oil meal is used, cane will be a very satisfactory roughage. It is usually seeded broadcast at the rate of about eighty pounds per acre and it is not cut until the seed begins to get hard. When the seed is in that condition the stems are very sweet and very palatable and contain the maximum amount of nutrients.

DEHORN THE CALVES.

To the Editor of The Homestead:

While it is true that domestic cattle have no use for horns, the work of removing the horns from grown cattle is a painful operation and unpleasant to perform. We find it much better to dehorn the calves at from three to ten days old. Open a can of common concentrated lye and let it liquify on the surface by exposure to the air. As soon as the horns can be felt, which will be at from three to ten days after birth, clip the hair away so as to expose the little knob or button, and rub a little lard or other grease on the skin around the horn to prevent injury from the lye. Then make a little roll of soft cloth about the size of a lead pencil, dip the end of it into the lye and rub on the horn. Apply until the skin that covers the horn looks red and tender. In two or three days examine the horns and if a scab has formed over the top of the horn the job is complete and the animal will always be hornless. If no scab has formed, which is seldom the case, repeat the treatment. We have been using this method for a long time and seldom find it necessary to make the second application. This method is practical, easy and humane; there is no bleeding, no suffering and no danger from flies. The operation can be performed by anyone at any season of the year. Dehorning grown cattle with a saw or clipper is a painful operation and sometimes results in loss. If all stock growers would adopt the plan of dehorning as soon as possible after birth there would in a few years cease to be any need of the saw or clipper, for there would be no grown cattle with horns.

Court W. Ranslow.
Christian Co., Mo.

MILKERS AND MILKING.

To the Editor of The Homestead:

The prime object should be to keep the milk clean. Any operation about the stable which would likely stir up dust should be conducted at least a half hour before milking is started, in order that the dust may have time to settle. Practically all the dirt which gets into milk comes from the manipulation of the udder while milking. As an aid to keeping the milk clean the long hairs about the udder and flanks should be clipped. The tail and switch should be kept clean.

Sometime before milking is started the udder and surrounding parts should be thoroughly cleaned. If the udder be dry a good brushing followed by sponging with a damp cloth will be found very effective.

Employees about the dairy should be cleanly in their habits and dress. The

owner of the dairy should keep himself informed in regard to the healthfulness of the employees and their families, and no person afflicted or constantly exposed to a contagious disease should be allowed to handle milk or do any work about the dairy room.

All utensils used in handling the milk should be kept scrupulously clean and should be sterilized or at least scalded out after being cleaned. Before beginning to milk, the milker should be perfectly clean, the cleaning process to include the use of a nail brush. A special suit should be kept by each milker, to be used only while milking, and should include a cap so made that it can be laundered at the same time as the remainder of the suit. The suit should preferably be white so that the least soiling will be plainly visible, and when so soiled should be replaced by a clean one. As the first portion of milk is usually rich in bacteria the first two or three streams of milk drawn may well be discarded.

The milking should be conducted in a cleanly manner, as near the same hour each day as practicable, and if possible, without the milker having previously handled the animal.

As soon as the milking of any one animal is completed the milk should be removed to the milk room, and if found to be stringy, bloody, thicker than usual or possessing an unusual appearance, or if manure gets into it in any manner, it should be discarded and the pail not again used until properly cleaned and sterilized. The animal giving the unusual milk should thereafter be milked separately, and if possible by some other employee than the regular milker. If this cannot be done she should be milked last. If used for feeding farm animals this unusual milk should first be sterilized by boiling.

The milk room provided should be used for no other purpose than the handling of milk and the storing of fresh milk until its removal from the dairy. This room should be easy of access from the dairy stable, but at the same time so arranged that the odor and dust of the stable cannot enter. If there be a direct connection with the stable it should be by means of a passage-way with a spring door at either end of the passage. If possible, the room should be in another building located conveniently to the dairy stable. Only persons having business there should be allowed in the milk room. It is especially desirable to bar those who have infectious diseases or are constantly exposed to them, and persons wearing filthy clothing. The room should be so constructed that it may easily be cleaned. The floors and walls for at least half their height should be cement. Drain should be surfaced and connected with the sewer by means of the best ventilated trap obtainable. No permanently moist place except running water should be in the vicinity of the room. Ventilation should be perfect and the room allowed to thoroughly dry from time to time. Moldy spots should not be allowed to collect on the walls, ceilings, fixtures or elsewhere, and this is almost impossible unless the walls are of such material as can be easily cleaned and can stand boiling water. In the summer the doors and windows should be thoroughly fitted with screens. The ceilings and upper part of the walls may well be whitewashed, a fresh coat being applied two or three times a year.

One of the first essentials in keeping dairy utensils clean is to have a smooth surface. As far as possible milk utensils should be made of glass, enamel ware or glazed earthen ware. The more simple their construction the better. Joints, runs, etc., should be smooth and well filled with solder

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or they cannot be kept clean. Cracks of any kind soon become filled with filth, in which germ life flourishes. Rusty vessels of any kind should not be used in handling new milk. None of the milk utensils should be taken into the stable other than the pails used for milking, and if possible they should be cleaned in a separate room provided for that purpose. An ideal condition is that in which a steam boiler is maintained for the purpose of sterilizing utensils after they have been properly cleaned, as well as furnishing live steam for various other cleaning and sterilizing purposes. The sooner the utensils are cleaned after use the more easily and thoroughly it is accomplished. Where sterilization by live steam is not available the utensils should be well scalded after using and exposed to the sun in an inverted position, the covers being left off. Plenty of sunshine is one of nature's best disinfectants and has the advantage of being cheap. Sponges should never be used, as they are exceedingly hard to clean, are seldom thoroughly dried, and the milk left in them forms an excellent medium for the development of bacteria.

Augustus Forrest.

HOLSTEIN RECORDS BEING MADE.

The superintendent of the Holstein-Friesian Advanced Registry has just issued another great report. Perhaps never in the history of the breed have so many cows been qualifying as during the present season. Many phenomenal records are being made and, what is of still more importance, the great bulk of cows now qualifying for the registry have uniformly consistent and high records. During the last week covered by Mr. Gardner's report 226 cows were entered and everyone had a worthy record. Over one-half of the number enrolled in the recent class were heifers with first or second calves which fact makes the performances all the more creditable. The entire herd produces in seven consecutive days over 920,000 pounds of milk containing over 3,350 pounds of butter fat and gave an average of 3.64 per cent of fat. The average production for every animal was 407.1 pounds of milk containing 14.842 pounds of butter fat. Reduced to more common terms this production is equal to 58.2 pounds or twenty-eight quarts of milk per day and better than seventeen pounds of commercial butter per week. All things considered they are the largest ever reported by the superintendent. Mr. Gardner has made this comment upon the records made by the cows belonging to the May 15th class:

With a year of such great records, it is fitting that the last issue of these official reports should close with a great list and some broken records. It is almost incredible that any dairy cow should have the capacity that would enable her to produce over 126 pounds of milk in one day, average over 120 pounds per day for a period of seven days, and over 110 pounds per day for a period of thirty days; yet with two separate verification tests, in which she was kept under constant watch night and day, De Kol Queen La Polka 2d, owned by Clayton Sisson, of New York, produced in seven consecutive days 841.8 pounds of milk containing 28.305 pounds of fat, and in thirty consecutive days, 3,318.9 pounds of milk containing 113.263 pounds of fat. She breaks the record for thirty days; and it will be noted that the average per cent of fat for the shorter test was 3.36 per cent and for the longer, 3.41 per cent. If the milk averaged up with other Holstein-Friesian milk, the average per cent of total solids, on the basis of 3.36 per cent fat, would be 11.42; and this cow must have produced over 96 pounds of dry matter, all digestible, in the seven days, or at the rate of 15 1/2 pounds per day. It will be noted that the selected seven-day period began thirty days after freshening.

Some time ago Ladoga De Kol Pauline, in the herd of the Field Company, of Massachusetts, made a seven-day record above 24 pounds of fat and now she appears with a thirty-day record of 86.155 pounds of fat from 2,293.7 pounds of milk; while in De Kol Boon Lilith, bred by Lamb Bros., of New York, 24.172 pounds of fat from 505.5 pounds of milk and Wild Rose Jones 2d's Piebe, bred by S. B. Jones & Son, of Watertown, Wis., and recently sold to W. M. Gibson, of Winnipeg, Can., 24.145 pounds of fat from 584.5 pounds of milk, we add two more cows to the twenty-four-pound list. Three cows are reported as producing between 23 and 24 pounds of fat, namely, Mr. Moyers' A. & C. Inka McKinley, 23.695 pounds of fat from 661.1 pounds of milk; Mr. Harthorn's cow, Capitola Pieterje Clothilde, 23.188 pounds of fat from 420.8 pounds of milk, and Fields'

Blanche De Kol Hengerveld, 23.185 pounds of fat from 612.1 pounds of milk; and the two cows, Jewel Pobes Ormsby Burke, 22.534 pounds of fat from 682.5 pounds of milk, and Ruby Walker Pieterje, 22.182 pounds of fat from 482.2 pounds of milk, make good their right to places in the twenty-two-pound list.

The aged cow class of the semi-official division of this issue of the reports is lead by Pontiac Clothilde De Kol 2d, bred by the Eastern Michigan Asylum where Magodora and Hengerveld De Kol were discovered, 649.115 pounds of fat from 17,050.4 pounds of milk in 365 days; Pontiac Pyrrha being second with 613.997 pounds of fat from 18,534 pounds of milk in the same time. Genesee Beauty and Leda Beauty, both bred by the McKays, of Iowa, produced over 500 pounds of fat and gain the honor of mention; while the agricultural colleges of South Dakota, Missouri, Illinois and Kansas each show a good animal in the younger class.

But the most remarkable and almost incredible record of the year is that of Steven's Copia Hengerveld 2d's Buttercup. This heifer, calving at two years, three months, twenty-six days, produced in 365 days 18,349.3 pounds of milk containing 679.95 pounds of butter fat, showing an average of 3.71 per cent fat. Until her first official test was begun, twenty-four days after freshening, no exact account was kept of the weights of milk, thus depriving her of the advantage of more than 15 pounds of fat that would otherwise have been counted, as she was producing fully 5 pounds of fat less at the end of the year than at the beginning. During the year she was under official test over 100 days in all, and I regard the test as being as fully authenticated as that of Colantha 4th's Johanna and almost as great proportionally. Holstein-Friesian cows now hold the world's record for butter-fat production in the full aged and junior two-year classes, and it is only a matter of time for them to gain the same for the intermediate classes.

Since this report was issued from the office of Mr. Gardner the cow, Wild Rose Jones 2d Piebe, has again raised her mark. This time her record is something over thirty-one pounds. This performance has won for her owners the distinction of being the only breeders in the world who have produced five thirty-pound cows. Holstein history is being written these days and the breeders of the middle West are contributing most generously to its writing.

GRAIN FOR CALVES.

When calves are changed to skim milk they need some substitute for butter fat. This may be furnished in the form of fat, as cod liver oil. It is more readily and cheaply obtained from the starch and fat found in grain. Ground flaxseed made into a jelly and fed with the milk is soothing and makes a good substitute for the butter fat until the calf is three or four weeks old when it should be able to eat ordinary farm grains, as corn and oats, in sufficient quantities to substitute for the butter fat. Many feeders start on farm grains without flaxseed and report good results.

Skim milk contains more protein and carbohydrates than whole milk. In selecting a grain to take the place of the fat that has been removed, it is not necessary nor is it advisable to get one rich in protein, as the skim milk furnishes this nutrient. While calves may do well on high-priced concentrates, they are unnecessarily expensive and give no better results than the cheaper carbonaceous grains, as corn, barley, oats, kafir corn, or sorghum.

Calves will sometimes learn to eat the grain more readily if a little bran forms a part of the ration for a short time. A number of farm grains have been used successfully in feeding calves. The following list may serve as a guide to the calf feeder in making selections or combinations to suit his conditions:

1. Corn meal gradually changed in four to six weeks to shelled corn with or without bran.
2. Whole oats and bran.
3. Whole oats and corn chop, the latter gradually replaced by shelled corn in four to six weeks.
4. Ground barley with bran or shelled corn.
5. Shelled corn and ground kafir corn or sorghum.
6. Whole oats, ground barley and bran.
7. A mixture of twenty pounds of corn meal, twenty pounds of oat meal, twenty pounds of oil meal, ten pounds of blood meal and five pounds of bone meal, changed to corn, oats and bran when calves are three months old.
8. A mixture of five pounds whole oats, three pounds bran, one pound



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corn meal and one pound of linseed meal.

The calf may be taught to eat grain by rubbing a little on its mouth when it is through drinking milk. From this it will soon learn to eat from the feed box.

There is little danger of calves getting too fat on any of these grains while being fed skim milk. Should any of the dairy calves show a tendency to fatten, a little bran or oil meal can be added to the ration and the corn reduced or removed. After weaning from milk, greater care will be needed in selecting grains containing the right amount of protein and mineral matter for the proper development of bone and muscle.

There is also little or no danger of the calf fed skim milk eating too much grain. The young calf makes better gains for grain consumed than the older calf, which is an additional reason for giving it all it will eat. Limiting the grain ration causes a loss in gain and is seldom to be recommended.

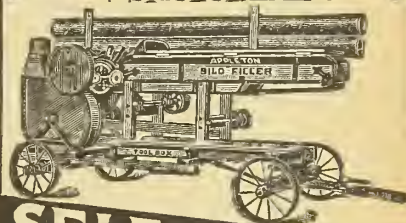
The calf is possessed of a good set of grinder teeth and when four to six weeks of age is able to do most of his own grinding. A number of feeders have obtained excellent results with whole oats. Experiments indicate that calves do better and are less subject to scours when fed shelled corn instead of corn chop. Grains that are small and hard, like sorghum or kafir corn, give better results ground.

When possible it is better to feed a mixture of two or three grains than one, but a large variety does not seem to be of any special merit.

A number of calf meals may be purchased on the market. While these undoubtedly possess some merit, they are usually high-priced and appear to possess no particular merits over a good combination of farm-grown grains. It is not advisable to mix grain with the milk. The calf needs to properly masticate it and not gulp it down before the starchy matter of the feed is acted upon by the saliva. This precaution will frequently avoid scours.—(Wisconsin Bulletin.)

A farmer is quoted by the Hiawatha (Kan.) World as saying: "If it keeps on raining the wheat will be ruined, and if it doesn't rain there will be no corn."

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POULTRY

This department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

PREFERS THE BIG HEN FOR WORK.

To the Editor of The Homestead:

I have raised poultry for fifteen years and find my profits increasing every year. I also see no reason why this should not be the best year of all. I find there are more and more people looking for high-grade birds each year and it is easier nowadays to sell a \$10-bird than a \$1 one; therefore, it is important that the poultry people in general must see to it that their stock consists of first-class, healthy, large, vigorous birds. Like will in most cases produce like, and only the very choicest specimens, therefore, should be used in the breeding yards. I noticed an article recently where the writer advises using only the medium-sized eggs for incubating purposes. I cannot agree with her. Of course no one would even think of incubating small or deformed eggs, but why should she object to the large ones? She says in part that it is the poor layers that lay the big eggs, but I must again disagree with her. I have used trap nests in my yards exclusively now for five years and in all that time I have never known a poor layer to lay anything but a small egg. I also very soon discovered that it was the big hen that laid the big egg.

It is also the big hen that is the good mother; it's the big hen that lays the most eggs; it's the big hen that always jumps down first and gets to work. It is never the big hen that has the roup, the limberneck or any other disease that is prowling around waiting to fasten onto a fowl. Why? The very fact that the hen is big and strong and full of ginger and vigor is because she was bred right, hatched right, hatched from parent stock that put the vitality there. The big hen was never hatched from a small egg, neither was she hatched from a medium-sized egg. There never was and never will be a big fowl hatched from a small egg. Look over your chicks the day they are hatched and you can tell to a reasonable certainty the ones that will make the big fowls. The size of the bone in the leg will tell the story. These big chicks are the ones that must be the main spokes in the wheel of chicken profit. They are the strongest ones and will frequently live and thrive in spite of the most ignorant caretaker. If given intelligent care they will and must become the bone and sinew of the flock. These chicks were not hatched from small or medium eggs. They are the finished product of the big egg—the big hen, the strong, happy, heavy-laying hen.

The time is now here when people buying breeding stock insist on heavy

fowls. They see clearly that a fowl must be vigorous to attain the weight. No excuse should be accepted for underweight when buying breeding stock. If the fowl is too young to be up to weight they are too young for breeders. The man with a flock of breeders that will run from one to three pounds overweight is the man that finds buyers on every corner. The selling proposition is the easiest part of it for him. Some of these fine days the egg buyers of America are going to refuse to pay as much for little eggs as they do for large ones. It will be a just kick, too, and a hard one. What are you little egg raisers going to do then? You'll howl, you bet you will; it will be a dismal, heart-breaking howl all over this broad land, but you will simply have to get in line, adopt progressive ideas and always remember that it takes a big hen to lay a big egg; it takes a big egg to produce a big hen. Try it and be convinced. W. D. Gay.

Page county, Iowa.

WHITE DIARRHOEA.

"Dear Editor:—I see reports of so many losing their little chicks with bowel troubles and I thought I would tell my experience. I used to lose a great many of my little chicks from this cause, tried a good many remedies and was about discouraged with the chicken business. So two years ago they began to die and I thought I would try Walker's Roup and Cholera Cure. I used two 50c packages and raised 300 White Wyandotte chickens and never lost one or had one sick after getting the medicine. Now I wouldn't try to get along without it. I think the remedy is sold by most of the dealers or can be had by sending 50c money order to the Walker Remedy Co., Dept. U7, Lamoni, Iowa."

Mrs. C. M. Bradshaw, Beaconsfield, Ia.

POINTERS.

—In a recent issue of this paper a brief reference was given to the fact that Mr. S. Harr, breeder of Wyandotte chickens at Riverside, Iowa, gave away extra eggs to readers of this paper who bought two sittings of eggs from him at his regular price of \$1.50 per set of fifteen. Our notice was imperfect in the fact that it stated Mr. Harr would give one sitting; as a matter of fact, he gives two free sittings. In order to take advantage of this offer, however, our readers must get their orders in quick.

—Mrs. James Cockerton, of Whiting, Iowa, breeds Mammoth Toulouse geese and Barred Plymouth Rock chickens. Her announcement has been a feature of our advertising columns during the season. Under date of June 4th she writes as follows: "My sales have been excellent and I sold all the surplus stock of eggs I had to spare. Many of my old customers came back, with still more new ones. I try to treat them right every year and every year my list of patrons grows. The Homestead is the only advertising medium I use. I will sell Barred Plymouth Rock eggs for the rest of the season at seventy-five cents per sitting, or \$3.50 per 100."

Sandwich Self-Feeding Hay Press.

The advertisement of the above press will be found on page 2 of this paper. The Sandwich is not an experiment. It is a perfected machine which does its work so well that nothing better can be asked for. This press is made mounted as indicated in the advertisement, can be operated by horsepower, gasoline engine or by any other method available. The manufacturers have some special arguments of interest to hay balers, which they have gotten together in the form of a book published under the title of "Tons Tell." The facts are equally interesting to farmers. A post card will secure it without any charge. Write for it to the Sandwich Mfg. Co., 129 Main St., Sandwich, Ill.

A Portable Grain Dump.

Every farmer knows the necessity and importance of a portable grain dump such as that illustrated in the advertisement of the Schroeder Mfg. Co. on page 20 of this paper. The descriptions there given also indicate the superior qualities of this dump and elevator. For prices or additional particulars write to the H. V. Schroeder Mfg. Co., Minier, Ill.

LEGHORNS.

ROSE COMB BROWN LEGHORNS

EXCLUSIVELY. 12 years with this breed. Eggs: Pens 1 and 2, 15, \$3; 30, \$5. Scored flock; every bird with score card by Shellabarger, Holden or Shanklin. 15, \$1; 50, \$3; 100, \$5; 200, \$9. R. R. STEWART, R. 2, Charles City, Iowa.

High Quality Fertile Eggs for Breeders

Spring Valley Dairy and Egg Farm. Chas. G. Jackson, Prescott, Iowa, specialty breeder world's leading egg strain thoroughbred It. and S. C. White Leghorns. Satisfaction guaranteed.

S. C. B. LEGHORNS

240 Egg strain; Iowa State Show winners, 1909; scoring to 94%. Eggs balance season; 30, \$1.25; 100, \$3.50; 200, \$6.50. Orlando Jacobs, Mediapolis, Ia.

Rose Comb Brown Leghorns

Bred 17 years for quality and eggs. None better regardless of price. 20 eggs \$1; 50, \$2.50; 100, \$4; 200, \$7. Address ELLA THARP, MT. STERLING, IOWA.

Rose Comb Brown Leghorns exclusively.

Eggs for hatching, \$3.50, 100. Also Rouen duck eggs. Write E. Bowman, R. 6, Eldora, Ia.

S. C. B. Leghorn

eggs for hatching, 75c. per 15; at reduced rates on incubator lots. FRED D. FOUER, Benicfield, Ia.

S. C. W. LEGHORNS

The bred-to-day strain. Pen scoring 94. 15 eggs 75c. Farm flock, \$3, 100. Geo. Gail, Tipton, Ia.

S. C. B. Leghorn

Eggs from farm range; \$1 per 25; \$3 per 100; \$5 per 200. Address JOHN M. HALL, Williams, Iowa.

Eggs for Sale

From my pure-bred Rose Comb Brown Leghorns \$3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

S. C. W. Leghorn Eggs

Now \$1.50 and \$1 for 15; \$4, 100. Send for circular. Chas. J. Mackey, Box 523, West Liberty, Iowa.

S. C. White Leghorn Eggs

75c. per sitting; \$2 and \$3.50. John C. Miller, R. 2, Harlan, Ia.

RHODE ISLAND REDS.

CLOSING-OUT SALE

OF S. C. Rhode Island Reds at summer prices, to make room for young stock. Reduction on eggs. Free catalog of valuable information. Winners at State Fair, 1909, and Omaha, 1910, only places shown. Both combs. Mrs. F. W. McIntyre, R. 5, Red Oak, Ia.

EGGS at reduced prices.

R. C. and S. C. R. I. Reds. Prices, one sitting, 75c; 50, \$2.25; 100, \$4; excellent layers. Mrs. T. A. Gough, Bristol, Iowa.

S. C. R. I. Red Eggs

\$1 for 15; \$5 for 100; fine bred; good laying strain. Address Mrs. Sophia Rader, Laurel, Iowa.

S. C. R. I. RED EGGS

75c per 15; \$4 per 100. I. C. Welch, Bedford, Iowa.

BRAHMAS.

Ottumwa POULTRY YARDS

Light Brahmas 7 premium at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

LIGHT BRAHMA

Eggs for hatching; 30 for \$1.25; 50 for \$2; 100 for \$3.25. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

LIGHT BRAHMAS

Eggs, \$1 per 15; all unfertile eggs replaced at half price. Stock for sale. H. F. Moffitt, Afton, Iowa.

LANGSHANS.

PRIZE-winning B. Langshans exclusively.

scoring 94% at Dubuque by Lambert. Eggs after June 15, 13, 50c; 26, \$1; 100, \$3. W. W. Baskerville, Earlville, Ia.

BLACK LANGSHAN

Eggs for sale from large thrifty birds, farm range. \$1.00 per 15; \$4.00 per 100. Address, J. H. Rayl, Afton, Iowa.

Black Langshan

Eggs from good, thrifty stock; many will score 95; 20 for \$1; 100 for \$4.50. Mrs. Geo. Tunt, Marathon, Ia.

ORPINGTONS.

S. C. Buff, Black, White and R. C. White scored cks.

S. Won hundreds of prizes. Eggs, \$1.50 up. Hens with baby chicks. Mating list. Dr. Evans, Legrand, Ia.

EGGS

At half price now, from birds we imported this spring. Stock at bargain prices. PREWITT, Route 5, Osawa, Iowa.

S. C. Buff Orpingtons

Eggs for hatching; \$1.50, 15; \$7, 100. Fertile eggs guaranteed. Frank Rafoth, Earlville, Iowa.

MINORCAS.

S. C. BLACK MINORCAS

EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

DOGS.

SCOTCH COLLIE PUPPIES

FOR SALE—\$5 to \$10. Very best breeding, will make fine workers. Write us your wants.

T. A. Stevenson, Shannon City, Ia.

SCOTCH COLLIE PUPPIES

Several fine imported and trained stock. If you want a good driver or a handsome pet, write for our illustrated catalog. Hundreds of testimonials. Address GEO. T. UNDERHILL, KNOXVILLE, IA.

Scotch Collie

male pups, 3 months old, sable and white; priced worth the money—\$5. One good brood bitch in whelp. Will ship on approval. Address O. J. Early, Bristow, Ia.

Fox Terriers

King of the rat terriers. Puppies and grown stock for sale. Single Comb Reds, winners 5 silver cups and 34 ribbons, 1909-10. Eggs, \$2 per 15. Sabot Kennels, Pella, Iowa.

BARGAINS

In Collie female pups, two to six months old, from registered heel-driving parents. C. H. Drake, Hazleton, Ia.

COLLIES—Bred to Ormskirk Sample, a trained dog of international fame.

Fine pups of all ages; bitches open and bred. P. L. Savage, St. Charles, Ill.

Great Collie Sire

at stud, Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

PLYMOUTH ROCKS.



219-EGG STRAIN BARRED P. ROCKS

EGGS for hatching balance of season. Where taken from all pens, 15 for \$1.25; 30 for \$2; 50 for \$2.75 and \$4 per 100. Special mating, 15 for \$2; 30 for \$3; 50 for \$5; \$8 per 100. Don't make a mistake, but send to W. A. Hartman, Box 242, Winterset, Ia.

CUT PRICES ON BARRED P. ROCK EGGS

THREE pens, all strongly Bradley bred; one pure-bred Bradley pen; two pens cockerel mating; one pullet mating. Special prices next thirty days. Best of stock. Mrs. L. C. Reese, Prescott, Ia.

B. P. ROCK

Eggs for sale from extra large-boned, nicely-marked stock; yards headed by cocks and cockerels scoring 90 to 92%; weighing 11 to 13 lbs. In five showings, including Central Iowa Show, 1909, Russell, Judge, we won 32 firsts, 11 seconds, 4 thirds, 2 fourths, 2 fifths, 15 eggs, \$1.50; 30, \$2.50; guaranteed fertile. J. W. Wagner, Monroe, Ia.

BUFF ROCK EGGS

Half price after June 1st; 75c. for 15; \$2.50 for 50; \$5 for 100. L. L. Woods, GRINNELL, IOWA.

B. P. ROCK EGGS

26, \$1; 100, \$3. A few good cockerels for sale. Address ROBERT HUNT, EARLVILLE, IOWA.

Barred Plymouth Rock

Eggs at \$1 for 30, \$1.50 for 50 and \$3 for 100. Mrs. Sidney Hunt, R. 3, Earlville, Ia.

EGGS

From White P. Rocks, Fishel strain; \$1 per 15; \$1.50 per 30; \$4 per 100. Hens, \$1 each. Mrs. E. C. Turner, Route 1, Griswold, Ia.

EGGS

From Barred Plymouth Rocks. Heavyweight fowls a specialty. Write for prices. L. D. Wells, Morrisonville, Ill.

PURE bred W. P. Rock eggs for sale from scored birds.

Special price, \$1 per 13 eggs. Also a few fine cks. White Rock Poultry Farm, Earlville, Ia.

WYANDOTTES.

CHALKY WYANDOTTES

WHITE We pay express. Circular free. CEDAR LAWN POULTRY AND STOCK FARM, Fairfield, Neb.

WHITE Wyandottes of quality.

This proves it. Have won 18 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank, J. M. Erickson, Slater, Ia.

SILVER WYANDOTTES

Eggs, 15 for \$1; 40 for \$2; 100 for \$4. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

Buff Wyandottes Eggs

\$1 per sitting; \$2.50 per 40; \$5, 100. Address MRS. GRANT DAVIDSON, Corwith, Iowa.

For Sale

S. L. Wyandotte eggs for hatching, \$4 per 100, or 65 cents per 15. Write to CHAS. W. FARIS, IOWA FALLS, IOWA.

White Wyandotte

Stock for sale; good stock at right prices; satisfaction guaranteed. W. S. Gregory, Route 2, Keota, Iowa.

Silver Laced

Wyandotte eggs for sale, from choice, pure-bred stock cheap remainder of reason. Mrs. J. W. Lowe, Clarksville, Ia.

Silver Laced

Wyandotte eggs for sale, from good birds. Prices reasonable. Write for circulars. S. R. Young, Greenville, Iowa.

BABY CHICKS.

S. C. W. Leghorn baby chicks, \$1.50 per 100; \$7 per 50.

Guaranteed good, live, strong chicks at express office. Highland Poultry Farm, Hazleton, Ia.

DUCKS.

Mammoth

Pekin duck eggs from good, large-sized ducks; drakes 10 lbs.; \$1 per 15; \$8 per 100. John M. Hall, Williams, Iowa.

MISCELLANEOUS.

S. C. R. I. Reds. Eggs from two selected pens.

made for exhibition quality, and heavy winter layers. Eggs from stock on free range. Have some extra quality W. Orpingtons and S. C. W. Leghorn eggs. Mating list free. Dr. F. D. Miner, Hazleton, Ia.

S. C. BUFF ORPINGTON

and Buff Rocks, also Light Brahmas, scoring 92 to 94, best of matings, all birds are high h-scoring. Eggs \$2 for 15, half price after June 1st. Prices quoted on 100 lots. I. E. MINER, BUSSEY, IOWA.

EGGS

S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility results and highest fancy attainment. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

S. C. B. LEGHORN EGGS

\$3.50 per 100; Lt. Brahmas eggs, 75c. for 15; B. P. Rock, 75c. for 15. J. M. Craig, Route 1, Danbury, Iowa.

EGGS

Hondans, 15, \$1; Anconas, 15, \$1.50; Indian Runner ducks, 13, \$1; 100, \$5; Single Comb Brown Leghorns, 30, \$1; 100, \$3. E. A. KAUFFMAN, LOCKRIDGE, IOWA.

THOMPSON'S

Ringlet Barred Rocks, S. C. Rhode Island Reds; 15, 75c; 100, \$3. Indian Runner ducks, 13, \$1; 100, \$4. Address Mrs. C. H. Matteson, Deatur City, Iowa.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50, 15 eggs; incubator, \$5, 100. Also Fishel strain W. Wyandotte eggs, \$1.50 per 15. Sunny Slope Poultry Yards, Oskaloosa, Ia.

ROUEN, Pekin, Muscovy ducks; Polish, Hondans, Buff Rocks, White Wyandottes. Eggs, 15, \$1.50. L. C. Coleman, Route 2, Box 91, Mt. Pleasant, Iowa.

EGGS

Mammoth Pekin, W. Wyandotte; also Wyandotte cks.; scored stock; sure to please. E. S. Dyas, Bellevue, Iowa.

EGGS—All varieties; Leghorns, R. I. R., Orp's, Wyandottes, Minorcas, Rocks, ducks, geese, turkeys.

Cat. free. Wm. Koell & Co., Box M, Hampton, Ia.

White Wyandotte

and S. C. Buff Orpington eggs for hatching; 75c sitting or \$4 per 100. Mrs. J. E. Le Gassick, R. 2, Earlville, Ia.

SILVER

Laced Wyandottes; eggs \$1.50 per 15; \$5 per 100; Pekin ducks, \$1 per 11. Mrs. F. R. McLaughlin, Mannhus, Ia.

EGGS—B. and W. Langshans; S. C. B. Orpingtons; R. C. Rhode Island Reds and Light Brahmas.

Prices right. Mrs. S. E. Newell, R. 6, Audubon, Ia.

Barred

P. Rock and Single Comb Brown Leghorn eggs; one sitting, \$1; two sittings, \$1.75; 50 eggs, \$2.25; 100 eggs, \$3.75. J. A. Penn, Alta, Ia.

Won Only
GRAND PRIZE
Seattle 1909
U.S. CREAM SEPARATOR
Holds World's Record
0138 of 1%
Send for Catalogue B-81
VERMONT FARM MACHINE CO.
Bellows Falls, Vt.

OLD TRUSTY
—300,000 men, women and children, beginners and old timers, are now making big money with the Old Trusty
INCUBATOR
Let me tell you about my 30- or 60-day free trial and 10-year guarantee offer. Write me a postal now.
M. M. Johnson, Clay Center, Neb.
BOOK FREE

IOWA WEATHER AND CROP BULLETIN.

The following climate and crop bulletin is issued by the Iowa Weather and Crop Service from the central station at Des Moines, for the week ending June 12, 1910:

The average temperature of the past week was about 7 degrees below the normal with light frost in northern counties on the 7th, but yet it was the most favorable week, for corn growth, we have had this season. Copious showers occurred over the larger part of the state and the last three days were moderately warm. The rainfall was quite heavy and above the normal over about two-thirds of the state; the heaviest being in the Des Moines valley and especially in the northern half, where the weekly amounts ranged from 2.00 to 3.00 inches. The rainfall was extremely light over the northeastern and extreme southeastern counties. Grass, small grain and potatoes have improved under the effect of the recent rains and corn shows better color and is growing more rapidly since the advent of warm weather. Cultivation of early-planted cornfields is general, but replanting still continues in all sections of the state. Winter grains are in bloom in central and are heading nicely in southern districts. Spring seeding is showing up well and gives promise of a good stand. Timothy is heading short and the hay crop will be light.

The following is a summary of crop reports from the correspondents of the Iowa Weather and Crop Service:

Area Planted.—Corn, 102 per cent; winter wheat, 91; spring wheat, 99; oats, 100; barley, 93; rye, 94; meadows, 97; flax, 97; potatoes, 100; popcorn, 100; sweet corn for can, 102.

Condition.—Corn, 79 per cent; winter wheat, 84; spring wheat, 96; oats, 94; barley, 93; rye, 90; hay, 79; pastures, 81; flax, 90; potatoes, 97; popcorn, 85; sweet corn, 82; apples, 12; plums, 7; peaches, 2; grapes, 31; cherries, 8; berries, 32 to 48.

Condition Last Year.—Corn, 94 per cent; winter wheat, 92; spring wheat, 94; oats, 90; barley, 94; rye, 94; potatoes, 96; hay, 97.

GEO. M. CHAPPEL,
Station Director.

HAMPSHIRE DIRECTORS MEET.

To the Editor of The Homestead:

The directors of the American Hampshire Swine Record Association met in midsummer session recently, at Peoria, Ill. Those present were: H. Atkinson, of Kentucky, president; L. C. Miller, of Illinois, vice-president; E. C. Stone, of Illinois, secretary and treasurer; Willie Essig, of Indiana, J. E. Rouse, of Kentucky; Clayton Messenger, of Iowa, and J. M. Craven, of Kentucky, directors; and Robert W. Parr, of Illinois, member. This was a very busy as well as interesting session and lasted throughout the entire day. The report of the secretary-treasurer's office showed that during the last five months there have been seventy-two more pedigree records made than during the whole year 1909. As the last three months are regarded as the dull months of the year, 1910 should treble 1909 for the Hampshires. Specifications for Herd Book No. 5 and all succeeding ones published up to December 31, 1912, were sent out, and there was a keen, snappy competition in the bids received, yet a close range of figures per page. The contract, which will amount to over \$5,000, was awarded to the Hampshire Advocate Company. The secretary was ordered to get out a new record certificate of a more attractive nature and proceed to use them as soon as possible. Among the appropriations the International Live Stock Show received the most attention. The Hampshire breeders to the very man are much interested in the International. Enough special money will be added to the regular International classification by the Hampshire association to make five moneys in each class, and to make all classes equal in money value to the aged class. In addition to this they offer a \$25 silver cup for the best exhibit of under-one-year-old, get of one sire, number and quality considered. Another \$25 silver cup is offered for the best under-one-year-old exhibit of the produce of one sow, number and quality considered. This last exhibit will allow two litters to be shown, while the former will allow as many litters as desired, so long as they are all by the same sire. It is believed that these last two exhibits will add much interest to the show. The Indiana director, Mr. Essig, reported that Indiana will offer special money to Indiana exhibitors for the International.

Many other things of less importance received the attention of the board, and this meeting is regarded

LANDS AND HOMES FOR SALE

LAND AUCTION 3,000 ACRES OF RICH FARM LAND

Will be sold in 160, 320 and 640-acre farms, to the highest bidder, without reserve, near Buchanan, North Dakota.

FRIDAY, JUNE 24, 1910, AT 1 O'CLOCK P. M.

In the heart of the James River Valley, famous for its production of hard wheat and flax. Is also maturing corn. Soil is a black loam with clay subsoil. Almost level. These farms are under cultivation, some improved with buildings. Prospects are for another big crop, one-half of which goes with the land.

Land will be shown day before and forenoon of sale day.

Come to the sale and buy one of these money-making farms and secure a pleasant home in the most healthful state in the Union at your own offer before it is out of your reach in price.

TERMS \$5.00 per acre cash on day of sale. \$5.00 per acre Oct. 15, 1910. One-third of balance March 1, 1911, (or sooner if deed and possession are desired before that date). Remainder in instalments at 6 per cent. Detailed description of each piece by addressing either of the undersigned. This ad will not appear again.

JOHN R. BRADSHAW, Decatur, Ill. S. R. RUSSELL, Buchanan, N. D.

BUY A HOME IN SUNNY SOUTH DAKOTA

We have choice bargains in farms and ranches. Write us for further information.

THE O'RIELLY LAND COMPANY, DRAPER, LYMAN COUNTY, SOUTH DAKOTA.

Wheat and Flax Land in Montana

IN Dawson County; near railroads; plenty of rainfall; good water 12 to 30 feet; wheat yields 30 to 40 bu.; flax 20 bu. Every man who bought Dawson County land last year made money; sure to advance more. Send for our list now; \$15 to \$25 per acre. **MILLER & JORDEN, GLENDIVE, MONTANA.**

Wonderful Northwestern North Dakota Lands

THE Bread Basket of the World. Come West and secure some of this land while it is within reach of your purse. We have a limited amount of this land for sale, and can sell it on your own terms. Rich, black loam, clay subsoil, good water, good roads and excellent shipping facilities. Address **L. S. OLSEN & COMPANY WILLISTON, NORTH DAKOTA.**

BARGAIN---160 A. IMPROVED FARM

FOR SALE. 40 acres broken, fair buildings, black soil, clay sub-soil, 3 miles from town, running water, best dairying and stock farm ever offered, some timber, natural pasture. \$30 acre. \$1,400 incumbrance. **W. C. Weber, Little Falls, Minn.**

160 ACRES

OF No. 1 farm land in Stanley County, South Dakota, for sale at a bargain. Address N. Nelson, 476 Elizabeth Street, Pierre, South Dakota.

NORTH MISSOURI FARM

ON account of old age, I will sell my 320-acre farm, well improved, at attractive price; easy terms. Address **J. W. McBeath, R. 2, Gallatin, Mo.**

IOWA LANDS Bargains always on hand. 160 acres, two miles from town; good land and buildings; \$72.50 per acre. Address **D. H. Eyer, Clarion, Iowa.**

For Sale--A Few Choice Iowa Farms

In Howard County; \$65 to \$90 per acre. Address **W. C. BREEDLOVE, CHESTER, IOWA.**

as the best and most important ever held. The Hampshire interests are spreading very widely and to the perfect satisfaction of the entire association membership.

E. C. Stone, Sec'y.

How Shinn Controls Lightning.

Mr. W. C. Shinn, of Lincoln, Neb., manufactures a pure copper cable lightning rod, a form which stands as the ideal conductor of electricity, and one which is scarcely subject to any improvement. It affords the maximum electric carrying power. Little more could be said as to the effectiveness of the rod. It is of added importance, however, that the Shinn rod is sold at the lowest cost. Mr. Shinn has been a manufacturer of copper cable lightning rods for a considerable length of time and his rods have proven effective on thousands of buildings. They have been so valuable that Mr. Shinn's guarantee has seemed to be an extreme one. However, his confidence was based on knowledge of just what his rods would do, and his business sagacity led him to make an extraordinary offer. He has bonded his company in the amount of \$75,000 as security that he would carry out every guarantee in his advertisements. Mr. Shinn has made lightning a matter of earnest study. He has learned the laws of nature with reference to lightning, why houses and barns take fire, why and how people and stock are killed, why water drains, stoves or iron beds are dangerous during thunder and lightning storms, and many other points of general interest not generally known. All these he has carefully gotten together in the form of a treatise on the subject of "Lightning and How to Control It." We urge every reader who enjoys profitable reading to send for a copy of this book. It is sent without cost to readers of this paper who write for it to Mr. W. C. Shinn, 101 North 16th St., Lincoln, Neb.

The Silberzahn Ensilage Cutter.

The above cutter is advertised on page 12 of this paper. It is a machine which is made of good materials, will work well from the very start and turn out the best class of work. It is so well made and so effective in its operation that it will pay for itself in its savings over other machines in a very short time. It is a highly-perfected cutter, the strong points of which have been worked out in the practical service of preparing ensilage for the silo. A catalog and illustrated price list may be had by writing to the manufacturers, Gehl Bros. Mfg. Co., 112 South Water St., West Bend, Wis.

Back to the Soil

50,000 ACRES

In St. Louis and Carlton Counties MINNESOTA

NEAR fast growing cities of DULUTH and SUPERIOR. Splendid markets. Eighteen railroads. Soil fertile and well adapted to general farming, dairying and raising of garden truck. Price, \$8 to \$10 an acre. Easy terms. Lands are owned by this company, free of all incumbrances, and no reservations. Write for full particulars and information.

Boston & Duluth Farm Land Co.
No. 18 5th Ave. West, Duluth, Minn.

SOUTH DAKOTA

Corn and Alfalfa Lands

The rush is on for Stanley county. Buy lands near the new railroad and double your money in the next year; 20,000 acres to select from; \$12 to \$18 per acre. Write for maps and booklet.

FELLD REALTY COMPANY,
530 Palace Bldg., Minneapolis, Minn.

Iowa Farm For Sale

270 ACRES bordering on Silver Lake, a beautiful body of water well stocked with fish. The land lies gently rolling; about one hundred and twenty acres are under the plow; balance is fine pasture and 80 acres more can be broken out. Price, \$72.50 per acre; \$1,000 cash; \$4,000 March 1, 1911; balance can run nine years at 5%.

J. G. Chrysler & Son, Lake Park, Iowa.

LET ME TELL YOU

ABOUT a 320-acre farm lying 12 miles north-east of Carthage, on turnpike road; well improved; all in cultivation except 20 acres of pasture, with running water through same. This can be bought for \$75 per acre; worth \$125 if taken soon. For detailed description, address **J. E. HALL, Carthage, Missouri.**

Improved Kansas Farms

I OWN the following improved farms, all near Severy, Kan., that I will sell on a payment down and the balance on long time at low rate of interest: 80 acres at \$45 per acre, 160 acres at \$35 per acre and 320 acres at \$30 per acre. I am not a real estate dealer; simply own the land and want to sell it. If you are interested write or call and see the land. **M. J. BIDWELL, Severy, Kansas.**

HOMESEEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address **The Allen Co. Investment Co., Loughton, Kan.**

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address **BERT I. WELD, SLAYTON, MINNESOTA.**

Lyman Co. Lands

ASAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. **HAGLER LAND CO., PRESHO, S. DAK.**

North Dakota LANDS!

We OWN and offer for sale the following lands in North Dakota:—

Improved Lands 25,000 acres in Cass, Stutsman and other counties. Prices \$35 to \$75 per acre.

Raw Lands 7,000 acres in Bowman county along the Milwaukee Road's new line; 3,000 acres in other counties. Prices from \$12.50 to \$35 per acre.

TERMS—One-third cash; balance in five equal annual instalments with interest at 6 per cent.

Descriptive literature free. Tell us what you want and how much cash you have to invest and we will make you an attractive offer.

WHEELOCK & WHEELOCK
Established 1897
25 Waldorf Block
FARGO - NORTH DAKOTA.

FREE LAND

AND FREE WATER RIGHTS IN NORTHWESTERN COLORADO

Write to-day for map and booklet telling how to get 160 or 320 acres of government land. **Deep, Rich Soil in River Valley.** Land and irrigation water absolutely free. Railroad now being built through a million acres of free land. Fine crops of grain and vegetables; good local market. Best grass country in the west. We have no land and no water rights to sell. They are free. **W. F. JONES**
Gen. Traf. Mgr., D. N. W. & P. Ry.
Room 704 Majestic Bldg. Denver, Colo.

LAND BARGAINS

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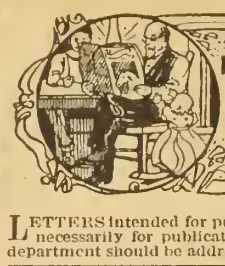
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THE HOME



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WITH THE EDITOR.

All over the land it is vacation time for boys and girls. Schools are deserted, books are laid away and for weeks there will be no lessons. The holiday period varies, but it usually covers anywhere from six weeks to three months—sometimes to four months. This time each year forms no inconsiderable part of the life of the growing boy and girl. The question naturally arises, how shall it best be spent?

We shall not talk about the play time which is the right of the child. We shall take it for granted that that is arranged for; that there will be little visits exchanged, little picnics and other pleasures dear to the youthful heart, and, for the little ones, a long succession of happy days with toys and games and friends. What we want is to consider how part of the holiday can be utilized to insure the all-around development of the boy and the girl.

What boys and girls learn at school, all the study with books and maps and appliances of one kind or other, has one end in view, viz.: the fitting of the boy and the girl for the duties of life. We may not all be willing to admit it, but educators are becoming alive to the fact that the curriculum of the schools does not develop the whole boy, the whole girl. There is a field of development left for the home, a field upon whose cultivation much of the child's future usefulness and future happiness depends. It is of this we would speak.

On the farm as soon as a boy is old enough to be useful he is put to tasks of one kind or other. As time goes by he does this, that and the other, so that by the time he is grown he has usually mastered the art of farming as his father knows it. It is not always so with the girl and it is of her therefore that we shall speak.

During a call recently a mother called to her daughter, a high-school graduate of eighteen years of age, to bring in some of the cake she had made that morning. It was delicious cake and as the visitor ate it she said so. Then she said to the girl, "I suppose you can also make fine biscuits and can turn out a batch of good light bread?" The girl tossed her head and said, "I've never made biscuits. Ma makes them; she makes the bread, too. It's too hard work for me." Her mother smiled and said, "Oh, I do all the plain cooking. Neta doesn't do anything but cake and mayonnaise—oh, yes, and candy. She is a fine candy-maker."

Now, it is all right that a girl should make cake and salad dressing and candy, but is it not all wrong that she should take this attitude toward biscuits and bread? And too bad that her mother should encourage her in it? A home can be kept up without cake or mayonnaise, though they are good in their place, but biscuits are desirable and bread a necessity. And youth is the time when a girl should learn to make them.

Some little time ago one of the household magazines published a capital series of articles relating how a wise mother led her daughters by delightful little journeys into the land of good housekeeping. They performed various tasks about the house in turn until each one was able not to make a bed or sweep a room or lay the table, but do all three, and to cook breakfast or dinner or supper in turn with the others.

The mother in the story was willing to take pains to teach her girls, she was patient with their mistakes and never upbraided them for their failures. She talked with them of the best methods of doing things, encouraged them to experiment for themselves, praised them when they did well, and made them feel that house-keeping tasks were just as important as lessons. She also rewarded them—without making the reward the main

thing—by allowing them to invite their friends to come and cook with them or share something which had turned out especially well. Recipes and housewifely hints were read together and scrapbooks made to which the girls were to add as they grew older. As the days went by the girls became more and more proficient and the mother had the joy of seeing them become more and more capable and of knowing that they were being prepared for the lot she sincerely trusted would one day be theirs—that of home-making.

It is not every mother who has the gifts which make a good teacher, sometimes mothers seem to have very few of them, but every mother can have ideals and endeavor to reach them. She can resolve that she will do everything she can to systematically train her daughters in housewifely arts, that she will try to be patient, try to be wise, try to bring out the best in them, and never rest until they are so proficient that should she be ill or absent from home that the wheels of the domestic machinery would move along without friction.

Holiday time is the time to begin to work towards this end.

HOME AND HOME MAKING.

LITTLE HELPS BY THE WAY.

What builds the nation's pillars high
And its foundations strong?
What makes it mighty to defy
The foes that 'round it throng?
Not gold, but only men can make
A people great and strong;
Men who, for truth and honor's sake,
Stand fast and suffer long.
Brave men who work while others sleep;
Who dare while others fly—
They build a nation's pillars deep
And lift them to the sky.

—Emerson.

HOW TO MAKE AND KEEP FRIENDS.

Some natures are more capable of easily forming friendships than others. Real friends are scarce, and once a real friend is found he or she is worth keeping. Acquaintanceship is the apprenticeship of true friends, but many acquaintances can never become anything else. The balance of friendship finds them wanting.

The best way to retain a friend is never to interfere in family or business privacy. Don't presume on liking or affection to impose on your friend's time or arrangements. Always give and take. Your peculiarities are probably as disagreeable to your friend as his or hers are to you. Endure them and so avoid bickerings.

COMMON THINGS.

Give me, dear Lord, thy magic common things,
Which all can see, which all may share,
Sunlight and dewdrops, grass and stars and sea,
Nothing unique or new and nothing rare.
Just daisies, knapweed, wind among the thorns;
Some clouds to cross the blue old sky above;
Rain, winter fires, a useful hand, a heart,
The common glory of a woman's love.
Then when my feet no longer tread old paths,
Keep them from fouling sweet things anywhere.
Write one old epitaph in grace lit words:
"Such things look fairer that he so-journed here."

SO HE WOULD.

Little Peter, aged three, was shown his new little baby brother, and asked what they would do with him. Being a little country boy, he knew the value of boys when older, so, gazing thoughtfully at the little stranger for a moment, he looked up with a smile, "Oh, keep him, keep him; he'll be dood for sumpin' by and by. He'll be dood ter tut wood."—The Delineator for May.

SUMMER HOUSEKEEPING WITHOUT ICE.

Partly fill with water a shallow graniteware pan. Place it in an open, shady window where there is a good draft of air. In this put bottles of water, milk and cream (sealed), wrapped with wet cloths reaching into the water. Put butter in an earthen dish deep enough to prevent water getting in. Over this turn an earthen flower pot wrapped with a wet cloth reaching into the water. The pan should be fixed every morning and



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evening. With several of these pans one can keep house very comfortably without ice.

A GOOD WASHING FLUID.

As warmer weather approaches, the housekeeper grows restive under the "bad color" contracted by white clothing and linens during short, darkening days and indoor drying. In the nick of time a member writes: "Here is a good washing fluid, which gives excellent results and lightens labor: One-half ounce of muriate of ammonia; one-half ounce of salts of tartar; one can of patent lye; six quarts of cold water. Dissolve and mix and pour into bottles, glass jars or stone crocks, and keep tightly corked.

Cut half a cake of soap into a boiler three-quarters full of cold water and add half a cupful of the mixture; soak the clothes over night or twenty minutes in cold water, wring out, place in a boiler and let it come to a boil and simmer for about twenty minutes, rinse thoroughly, blue and they will be beautifully white. The suds may be used for flannels and colored pieces.

ROUND STEAK ON BISCUIT.

Here is another recipe from the cook book recently issued by the government: Cut round steak into pieces about one-half an inch square, cover with water and cook at a temperature just below the boiling point until tender or boil for five minutes quickly, put into a fireless cooker and leave five hours. Thicken the gravy with flour mixed with water, allowing two level tablespoonsfuls to a cup of water. Pour the meat and gravy over thick baking powder biscuits, so baked that they have a thick crust.

RHUBARB PRESERVE.

Required: Six pounds of rhubarb, six pounds of preserving sugar, three teaspoonfuls each of grated lemon rind and powdered ginger; wipe, peel and cut the rhubarb into two-inch lengths. Put it in a deep earthenware pan with the lemon peel, ginger and sugar, and leave till next day. Then strain off the juice and let it boil for twenty minutes before putting in the fruit. Boil gently till tender. Pour into clean, hot jar and cover with white paper, brushed over with white of egg.

AMONG OURSELVES.

In this day and age there is a laxity regarding marriage, its vows and obligations, which bodes ill for society. Divorce is on the increase and the remarriage of divorced persons within a few months so frequent that it has ceased to excite surprise let alone the indignation which formerly greeted such conduct. Believing that marital unhappiness and divorce are fed by conditions such as are suggested by the letter of "Nameless" submitted Among Ourselves a short time back our meeting today will be entirely given over to a consideration of some of the replies called forth by that letter. As the letters form a symposium, they will be presented without comment.

A SELFISH LOVE—"ANOTHER GIRL."

I am a new reader of your paper, but I wanted to talk to the girl who has asked advice about an old lover who is now a married man. Dear little girl, don't let a married man talk to you of love, and don't listen to his home troubles, either. Such a love can't be anything but selfish, and believe me, you can't give the best love of your life to such a man. Yes, leave home if you can't be true and live there. The world is wide and there is lots of work for clean hands and pure hearts. Believe me, we can't do wrong and feel right.

TURN AWAY—"NEW SUBSCRIBER."

The editor truly says of "Nameless," "You are on the brink of an abyss." Let me entreat you to turn away before it is too late. Have nothing to do with him. Let him know that you consider such talk from a married man an insult. The man is not what you think he is, for no good man would marry one girl while loving another, and then admit that he doesn't love the one he married. No wonder he doesn't live happily with her.

BEWARE THAT MAN—"MRS. F. W. VANDERHOEF."

In the Home Department of May 5th our editor says, "May sweet, wise souls, taught by life regarding real things, come in response to 'Nameless.'" I cannot, perhaps, lay claim to the "sweet and wise," but it seems to me an easy question to answer, after all, and I feel I may safely say that my answer will be a true one. Now, "Nameless," let me talk to you as I would have talked to one of my own precious girls. Beware of that man. He is not a gentleman, not an honorable man, but one to be feared and shunned as you would the most deadly plague. The married man who tells you he loves you and complains of his wife and his home life has not an atom of respect for himself or for the girl whom he is trying to deceive and perhaps ruin. Shall you leave home? No. Arise in all your womanly virtue and dignity and show him by every look and action that you consider he is offering you the worst kind of insults. He tells you he loves you. If he loved you so devotedly, why did he marry the other woman? He is a scoundrel, and

without knowing his wife I sincerely pity her. Stop and think, "Nameless," what right has he to tell you he cares for you? Or you to listen to such talk from the husband of another woman?

PARENTS WERE WISE—"AN OLD-TIME SCHOOLMA'AM."

It is sometimes possible that parents make mistakes in such a decision as you describe, but we have reason to believe that in most cases love and wisdom unite in counsel, and because of the weakness betrayed by the man in the case we must think your parents acted wisely. That love should continue to exist under the conditions you describe can only be the result of an unclean sentiment. Cut it out of your life with severe sharpness, as you would an infected bough from a favorite tree. Let it remain in your memory only as a troubled nightmare, else after it has run its course you must lie awake many a night wishing to awaken and find it a dream. How many have tried it. No one has ever recorded a case of this kind where happiness has been the result.

DON'T MOVE AWAY—"A FRIEND."

I would say, no, do not move away just because the man has come back and is your neighbor, but show him, and others, you are not a weak-minded child. It seems to me he isn't worthy of a true woman's love. If he really and truly loved you he could not and would not link his life with another. The girl he did marry is to be pitied, for it goes to show he was neither true to himself, to you or the one who is his wife. If he were, he would not seek you now, after his marriage, and tell you he thinks as much of you as ever he did. That kind of a man would never make any woman happy, and the less you can have to do with him the better all around. He is a married man now and should be treated as such.

WAIT AWHILE LONGER—"TNA."

I caution you against the mistake that many make who are disappointed in their first love. I mean the mistake of taking the first one who comes along, whether they care for him or not. They think they have lost the one they love and they must have someone, it doesn't matter who, as they can't get the one they want, so they marry someone they don't care for and are miserable. If they had been patient and waited awhile longer they would have found someone they really cared for, and married happily. Marriage is a serious business and should not be entered into lightly nor without affection.

THINK OF THE WIFE—"INTERESTED."

Try if you can to put yourself in the wife's place. See if you think her position a happy or an enviable one. You say "he lives unhappily with his wife," and small wonder that he does. I do not think it necessary for you to leave your home. Just simply apply the golden rule in this case. I feel sure you would not want your name to figure in a divorce court, and that is where it would eventually lead to. So many homes are broken up just in this way. I hope, "Nameless," that you will teach this married man his duty. Do what is right and you will be surprised how easily you will succeed.

BANISH THOUGHT OF HIM—"OKLAHOMA GIRL."

I would like to say a few words for the benefit of "Nameless." My dear girl, lose no time in banishing every thought of that unworthy man from your mind. Tell him if he ever mentions the old love that it wasn't him at all that you loved, but the gentleman you thought he was, and that your love is hurried now with the past. Why, dear "Nameless," do you love him still? He was dishonorable in marrying if the old love wasn't forgotten. He might have told his wife of his former love, but we doubt it. Then again, no man would admit that he and his wife were not happy, knowing that he was to blame. Her happiness should be his first and only thought, and he so far forgets the sacred marriage vows as to "tell you he still loves you." I would thank God I had seen the veil torn from my idol and discovered him to be a deception.

MARRY A BETTER MAN—"WOOD-STOCK."

In answer to "Nameless" I say it is a shame she ever knew a man who would not control his tongue at forty-five years. I say it would have been the same had he married her. Now, about her leaving home on account of him living near, why, that would be crazy. Why, I should up and marry a far better man. At eighteen years one's life is not attached entirely to a man of forty-five. At eighteen years I was head over heels in love with a bachelor of forty-two. He was very lavish with his money and my parents were willing I should marry him. A friend (I say friend) came and said, "Say no," so when he asked me I said "No." Well, at twenty I met a farmer of twenty-five years and he was good and honest. I took him and a home today could never be happier. I say to "Nameless," stay with your parents until you get something better. Don't jump from the frying pan into the fire, and when "Forty-five" tells you again he does not live happily with his wife, get your father or some friend to thrash him, and tell him you are glad you did not marry him. Tell him so, anyhow. It won't do you any harm, and you will have sorrow if you don't. You don't

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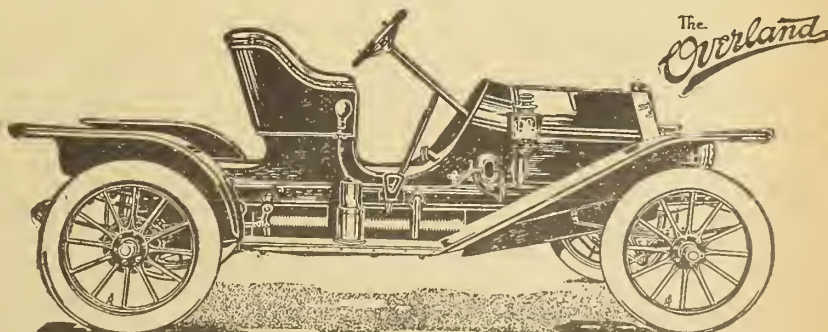
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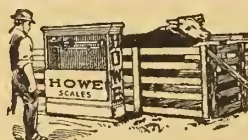
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find many men like "Forty-five," thank heaven.

AT PARTING OF WAYS—"HOPE."

"Nameless" has almost arrived at the parting of the ways. A case of that kind seems to me almost pitiful. I mean a case of two loving and parting and one or both marrying another, and all suffering, and as a larger knowledge of life comes to me, it seems a case not uncommon. Now that he has made his vows, before God and man, to another woman, there is only one honorable course—to be true to her and not talk to "Nameless" of his domestic ties, and of course if she still loves him she will not allow him to give her any confidences which might in time bring reproach on his name, for she is going to keep her best womanhood as her rarest treasure, cost what heartache it may, and too many words between people so situated generally means treading on dangerous ground. Life, to most of us, means more self-renunciation than self-gratification. I know the suffering must be acute for one situated as "Nameless" in a lonely place, without many young friends and so little of the outside world to take up her thoughts, but perhaps she will develop a strength of character that could not have come except through sorrow. Many a woman suffers as she is suffering now and still lives a blessing to others. If she could possibly do so I think it would be a wise thing for her to accompany her brother to college or attend some good school; mix with other young people and get other interests in life; take a trip away or take up some line of work or study. I do not say to forget, not now, for such wounds are a long time healing and they are sorrows which must be hidden differently from many others. "Their fullest speech is silence." But no love can very long be possible between her and any man who is not free to love her. Forget your own sorrow for awhile and try and think what must be the heartache of the other woman, she, who in good faith listened to his promises of love, had made vows with him at the altar and now moves with him to his old home and there learns that his love is given to another.

ANOTHER WILL COME.

Can you give me a little space for a letter to "Nameless"? My dear girl, you say you can never care for anyone else. If that were really true, how sad it would be! The man is married and you cannot possibly marry him now, so what can you do? Of course, you look forward to the long years to come and imagine the misery and loneliness that will be yours. You imagine that through all the weary days to come you must continue to love and long for him as you do now. You are naturally discouraged at such a prospect. It is of this idea that you can never care for anyone else that I wish to speak. I dare say that if all the readers of this department would tell their actual experience you would find that at least two-thirds of them have been disappointed in love and are now happily wedded to their second love, or perhaps their third or fourth. True, there are a few, a very few girls who are like morning-glories,

Blooming for a lover sun,
Blooming though for only one;
And when they and he must sever,
Close forever and forever!

But these "morning-glory" people are exceptions to the rule and are usually not found except in novels. Love is a fire and must perish for lack of fuel. "The fuel" which feeds the flame is association with the person loved; also surroundings which remind you of him continually. If you go to another neighborhood and get your mind on something else you will forget him, especially if you find someone else who suits you better. Go to some other community and teach or attend school, or work out if you can do no better. Don your best clothes and look your best at all times. I dare say it will not be long before some desirable young man will offer you his attentions. If he does, accept them. There is no surer cure for love than another love to take its place. I speak from experience. A few years ago I was as deeply in love as you are now with a certain young man, and when a trifling quarrel separated us and he got for himself another girl, I was in despair. I know just how you feel, for I have a keen recollection of nights of weeping when I thought I should never, never be happy again. I wrote yards and yards of poetry telling of my ruined life and my loneliness and how I expected to be miserable forever and ever. Anyone who has ever been through such an experience knows the suffering is intense. But it chanced that I went to another community and in a short while along came a young man. I accepted his attentions and thought I would try to forget No. 1. In a few months I found myself trying to remember. In a few more months I found that the fire of my first love had utterly perished for lack of fuel. No. 2 is now my husband and No. 1 is also married and does not live far from here, but since I have ceased to love him I do not envy his wife.

It has been my object in presenting these letters to cover as many phases of the question as possible. Necessarily the same ground has been traveled by some writers who have treated the matter from two or more points of view. I trust that one point has been made very clear; that every husband will feel that having made a woman

his wife it is his solemn duty to cleave to her; that every woman will feel that it is sin to encourage attention from or listen to words of love from a married man. This settled, other things shape themselves. It is for anyone tempted to do either of these things to decide on what is the easiest, quickest way to conquer the forbidden thing and to be governed accordingly. Where the sufferer is, as here, a young girl living a somewhat solitary life the situation is somewhat difficult. Still, from all the advice given, "Nameless" will surely find some which will help her to right decision and such a course as shall leave her a finer woman for this sad experience.

DRESSMAKING—No. 81.

[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

One-piece garments are a fancy of the present season and aprons are much liked made in this way. This model is simplicity itself. There is only one button and buttonhole required to keep it in place and it can consequently be slipped on and off in the traditional "jiffy." It is made with convenient patch pockets also and in addition to these practical advantages it is pretty and becoming. One of the inexpensive printed wash fabrics is the material illustrated and such are greatly used



[6638 One-piece Apron, Small 32 or 34, Medium 36 or 38, Large 40 or 42 Bust.]

for aprons of the kind, but gingham, linen, lawn and, indeed, all materials that are used for aprons are appropriate.

The apron is made in one piece and is fitted by means of darts at the under-arms. The patch pockets are arranged on indicated lines and the backs are extended to form pointed tabs at the neck edge, and it is at this point that the closing is made.

The quantity of material required for

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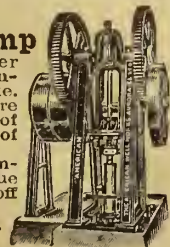
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Chicago Office, - First National Bank Building.



The medium size is 3 1/4 yards 24 or 27, 2 3/4 yards 32 or 36 inches wide.

The pattern 6637 is cut in three sizes, small 32 or 34, medium 36 or 38, large 40 or 42 inches bust measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

Semi-princess dresses that are made with trimming at the left of the front of the blouse, suggesting an opening at that point, but which are really closed at the back, are among the novelties of the season. Here is one that is dainty and charming, especially designed for the thin materials that can be tucked with success. It is finished with a straight flounce at the lower edge and this flounce can be either tucked or gathered. Fine white lawn is the material illustrated and there is trimming of lace and ribbon, but such a dress as this one can be trimmed in any way to suit the fancy, and embroidery, lace banding and applique are all appropriate, or it could be finished with embroidery worked onto the fabric itself. There is a little chemisette that always means an effect of daintiness and which allows effective use of contrasting material. The girdle is arranged in a novel manner and the band at the left of the front is distinctive and smart. All materials that are thin enough to be tucked are appropriate and foulards and mousselines and other thin silks are to be remembered quite as well as lawns, batistes, chiffon and the like.

The dress is made with the blouse and skirt portions. The blouse consists of front and back which are tucked to form a yoke, with the chemisette and the trimming is applied on indicated lines. The sleeves are made in one piece each, tucked in a way to mean distinction and novelty and are finished with little trimming portions which give the effect of under sleeves at their lower edges. Both the skirt and flounce are straight. The skirt is tucked and stitched flat over the hips, but the flounce can be either tucked or gathered. In this case the trimming is arranged in rows with ribbon between the two that are arranged above flounce.

The quantity of material required for the medium size (16 years) is 10 3/4 yards 24 or 27, 7 yards 32 or 34 yards 44 inches wide with 14 yards of banding, 3 1/4 yards of ribbon, 3/4 yard 18 for the chemisette and under sleeves.



[6637 Tucked Semi-Princess Dress for Misses and Small Women, 14, 16 and 18 Years.]

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PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
Among the pleasant fields of Holy Writ
I might despair Tennyson.

The International Sunday School Lesson

SECOND QUARTER. Lesson XII.—Matt. XIII., 1-9; 18-23. June 19, 1910

THE PARABLE OF THE SOWER.

It never seemed to be necessary to ring a bell to get Jesus an audience. He went up into a mountain and the people followed him until he opened his mouth and said, "Blessed." He went down upon the seashore and such a throng pressed upon him that he stepped into a boat and used it as a pulpit, speaking as has been suggested from the bosom of a placid lake, emblems of the peace his doctrine is calculated to produce. It was on the latter occasion that he strung a strand of pearls out of his parables—the greatest of which is perhaps that of the Sower.

What is that in your hand? "A seed," you say, "a small vegetable substance, brown and oblong." Yes; but these are only the accidents of color and shape. The question is not what it is like, but what it is. You could make a grain of wheat which would deceive a farmer, but it would not be a grain of wheat. It is that subtle principle of life the seed contains that makes it a seed which sown in the soil reproduces itself. So Jesus spoke words that, although they may have resembled the words of other teachers in some particulars, were in reality essentially different. They may have the sound of other words, but they are superior, as they are unlike other sayings. They have a hidden principle of life and can reproduce themselves in life and character.

But just hearing the message amounts to nothing. It is like seed on the trodden path. It is only a question of a short while and it will be carried away, and that is all of it. Mere consent to the word amounts to but little more. There is no depth of soil into which the roots can strike. In this instance also it is a question of only a short time when the frail life will wither. Again the same soil which nourishes wheat may nourish thorns, but no soil can nourish both wheat and thorns well at the same

time. One or the other must soon perish.

The difference and superiority of the teaching of Jesus is apparent in this. Listened to with the mind, consented to with the will, believed on in the heart, it produces results which are only limited by the receptivity of the human soul—some thirty, some sixty, and some a hundred-fold.

The whole teaching of Jesus, the whole system of Christianity, its doctrine, duty, privilege, and destiny, is a parable—a dark saying to the common mind. One must bring something to the teacher before he can receive anything. Faith and the spirit of obedience—to him that has that more will be given until he has abundance. But he that has not that, even what he has, namely, his theoretical knowledge, will remain so impotent that it will be as if it had not been. Perhaps there never has been a time when this theoretical knowledge of Jesus and his teaching was so universal as now. But it is to be feared that it is too superficial.

The need of the hour is a moral earnestness which will lead to the doing of what the disciples did, namely, penetrating to Jesus' very presence with the entreaty that he will himself explain the parable. The open eye, the attentive ear will lead to an understanding with the heart, to conversion and healing. Blessed such eyes! Blessed such ears!

The Teacher's Lantern.

He spake of lilies, vines and corn,
The sparrow and the raven;
And words so natural, so wise,
Were on men's hearts engraven.

And yeast and bread and flax and cloth,
And eggs and fish and candles,
See how the whole familiar world
He most divinely handles.

Correspondence between the natural and spiritual worlds is so wonderful, so minute as well as general, that it cannot be a mere coincidence. It is designed. The natural is to interpret to us the spiritual. Milton's profound

question may be put in a suggestive form—

What if earth be but a shadow of heaven and things therein, Each to the other like, more than on earth is thought?

Jesus himself makes the commonest objects interpretive of most uncommon experiences.

Lyman Abbott defines a parable as: A fictitious narrative, true to nature, yet undeceptive; veiling a spiritual truth under a symbol for the purpose of conveying it to minds reluctant or indifferent.

Fate of seed is fate of soul. Does the hearer allow the gospel seed to be carried away, withered or choked, such will be his own destiny. So will the Lord of the harvest deal with his soul.

As there is seed and soil, so must there be a sower. Angels might covet the work. In the universe there is not a nobler undertaking. The deliberate, intelligent, loving transfer of truth from its garner in the Scripture to the soil of the human heart—that is sowing the seed!

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THE YOUNG FOLKS

VACATION STORIES.

The editor of the Young Folks' Department wants to know how you are spending, or intend to spend, your summer vacation. Of course, everybody has work to do, more or less, but what are your pleasures? How are you going to celebrate Fourth of July? What did you do on Decoration Day? Are you going to take any trips this summer? What are the boys and girls of your neighborhood playing and saying and doing? Write some vacation letters and send them in, addressed as follows: Young Folks Editor, Homestead, Des Moines, Iowa.

Chased by Wolves.

I saw a piece on the Young Folks' page, written by Ruth Layton, telling about Carlo, her shepherd dog. We have a dog that must be just like him. His name is Curly. He is yellow and white and he has brown eyes, white face and a white ring around his neck and white legs and a white spot on his tail. Curly is not as old as Carlo. He is only one year old. He likes to go with my big brother after hay so he can catch the mice in the stack. One night about a week ago he went away to a neighbor's about a mile away and in the morning when he was coming home two big wolves got after him. We saw them coming and my brother got the gun and tried to shoot the wolves. They chased Curly pretty near to the house, but did not catch him. I guess that taught him a lesson, as he has not been away since. I am a farmer boy, eleven years old, and am in the fifth grade in school. We have only a quarter of a mile to go to school. I like to read the letters from the boys and girls. When I get big I am going to school and learn to be an engineer.

Willie Paulson.

Trapping a Possum.

I am a boy, eleven years old, and live two miles from Lamoni, Iowa. I go to school half a mile away. I study reading, arithmetic, spelling, history, geography, grammar. I live on a farm of 240 acres. I live just about half a mile from a creek and I trap a good deal in winter. I have five brothers and a sister. One day my playmate and I went hunting. We went down on the creek and I was walking along and saw a hole under the hazelbrush and looked in and there was a 'possum. Of course we tried to get him and we set about six or seven traps. We took sticks and punched him out and he got in two of our traps. Then we went home and skinned him and sold his hide.

Roland Burrell.

A Pet Calf.

I live on a farm two and one-half miles from town. I go to school every day. I like my teacher. Her name is Miss Mary Munshull. For pets I have a calf named Bessie and when she sees me she will come to me for me to feed her. I also have a pet pony named Maude. I often ride her after the mail and cows. I can ride her just as fast as she can go.

Ada Critel.

Likes to Bake Cake.

I am a girl, thirteen years of age, and am in the eighth grade. We have two rooms in our school, and nine grades. We live on a farm of 240 acres. There are eleven children in our family, four boys and seven girls. I have two sisters and two brothers larger than myself. We have lived on this farm four years and have been building every year. When we came all the buildings were about falling down. Last year we built an awful large barn. We have an orchard and raise many apples. Now we are to build a new house. My father and brothers are busy hauling lumber home every day. I have a little sister, five months old. She was born New Year's day, 1910. I like to bake cake and take care of the baby. In summer I feed the chickens and take care of the small chickens. We have fifteen

teen cows and eleven horses. We have a little brown pony which I like to ride very much. I have two pets, a dog named Carlo, and a little gray kitten. Carlo will shake hands and bring home the cows. We have one mile to go to school, which is in Ny-sted. There are only a few houses here.

Lydia Jensen.

Attends School Regularly.

I have been reading the letters in your paper for some time and find them very interesting. I am nine years old and have five sisters, I being the baby. I live on a farm of eighty acres in Polk county, Wis. I am going to school every day. I have missed two and one-half days of school this term, and last year I missed only one day. I have three large certificates for attending school so regularly. Papa says I'm going to be a veterinarian when I get big enough, that is, if he can save money enough for me. I got a twenty-two Stevens rifle for Christmas from papa. I have only shot a weasel and a cat with it. I would like to hear from some of the cousins.

Johnnie O. Wing.

Has Never Been Tardy.

I like to read the children's stories in your paper so I thought I would write one, too. I am a farmer's daughter. I am eleven years old. Our farm is four miles west of Warrensburg, Mo. We have a new house and barn. I like to live in a new house. I have no brothers or sisters, but I have a dog and two kittens and I have lots of fun with them. My mama raises chickens and turkeys and my papa raises pigs. I love to live in the country and see things grow and hear the birds sing. We live one mile from school, where I go all the time except when it is real stormy. I have never been tardy. I have a little chum at school whose name is Nora Hutson. My grandma and grandpa live in town and I go to see them often, but I would rather live in the country.

Ethel Goza.

A Girl's Rabbit Hunt.

I am a country girl living on a farm of eighty acres, four miles from town. I am thirteen years old and go to school almost every day. My school is a mile and three-quarters from home. My teacher's name is Emily Steffen. I like her real well. I study reading, history, grammar, arithmetic, geography, spelling and music. In the morning before I go to school and in the evening I help do the chores. We have six cows and five horses. We live close to a creek and in the summer during vacation my dog and I go to the creek and have some fun. Sometimes some of my friends come and see me and then we go fishing and swimming. One day my dog was barking by the wood pile and I went to see what was the matter. When I got there he was awful glad and afterward we caught a rabbit. It was alive yet and we killed it and skinned it and gave it to the cat. I only have one cat and I call her Pussy. She is very good and gentle.

Ruby Schuett.

Finds Arrow Heads.

I am a farmer boy, eleven years of age and live near Lake Winnebago where we catch lots of fish in the summer time. We live on a big farm of 120 acres; have four horses, thirty head of cattle, thirteen pigs and 140 chickens. I have a sister and a brother. My sister is in the third and my brother in the seventh and I am in the sixth grade. The schoolhouse is across the road from us. I guess the Indians had a good time by the lake. We found thirty arrow heads and lost one and gave one away. The lake is ten miles across to the other side. I have a pony ten years old. One day I put the bridle on him and went down in the wood to get the cow. On the way home I lay on his back and he began to buck and threw me off and ran

home. I had to walk home with the cow. I have a dog and harness him up, and after school I give my playmates a ride.

Harry Retzloff.

A Helpful Boy.

I am a boy fourteen years old. I live in Nebraska on a farm that contains 320 acres and is ten miles west of Hartington. I like to work on the farm. I plowed sixty acres last fall. I am going to school this winter and help to take care of the stock and haul hay on Saturdays to the barn. We have seventy-five head of cattle, twenty-three head of horses and 100 hogs. We have a car load of hogs most ready to ship and they will bring lots of money now. We will put out 100 acres of corn and fifty acres of oats this summer. We put up about 125 tons of hay, timothy and clover and alfalfa. We have a loader and stack it with a cable; put eighty tons in one stack. I do most of the mowing and drive the team to the stack. My father helps us in haying time. His health is not very good. He has a Rambler automobile and he sells land in South Dakota in the summer. I have three brothers, one older and two younger, and three sisters. One is married. We have a blacksmith shop. My oldest brother shoes our horses. I will be glad when it is time to work in the field. I like to drive horses. We have two colts to break this spring.

Hugh Parsons.

A Cheerful Invalid.

I am a little boy eleven years old. I was taken sick with some sickness that the doctors called spinal disease and it left me so I can't walk or stand on my feet. But I have to be happy all the same, and I think I can get well and walk again. I went to school two years and a half before I got sick and I have my books to read and write in at home. I have three brothers and one sister. We live in Marshfield, Wis.

I have a little yellow dog, named Penny, that likes me very much. I also have a little chipmunk in a cage. We caught him in the woods last summer and he has been asleep all winter. He looks like a little ball of fur.

Eddie Christensen.

A Pet Horse.

I am twelve years old and live out on a farm. I have a pet horse, "Dick." I pet him lots and take him to Sunday-school in the summertime. I ride him after the cows and he likes me. He likes corn, oats, hay, and he always whinnies when I come into the barn. He is a big, fat, white horse and papa carries him every morning and takes him out and gives him water. He pulls us to town on Saturday nights in the summertime. He eats grass in the summertime. I take him to herd the cows and he eats grass with the cows. I like him very much. Sometimes he is lazy and will not go when I tell him to, and when I get the whip and hit him he jumps and squeals.

Grace Wendler.

A Model Barn.

I am a little girl twelve years old. I go to school and am in the twelfth grade. I have one sister named Cleo and a mother and father, but no brother. We live on a farm which contains 260 acres of land. We have many big buildings on it. The first I will tell you of is the horse barn. It holds ten head of horses and there is a big driveway of cement. There is a place for a carriage and an oat bin, corr crib and a large hay mow. The next is the hog house, which has a cement floor in it and seven little pens and two corn cribs and a place for machinery and a large hay mow. The cow barn has two large drive-ways. One side is for cows and the other is for the rest of the cattle. We milk nine cows; papa milks five and I milk four. We don't let the calves run with the cows; we milk the cows and give the milk to the calves. We give them whole milk for about three weeks, then we give them separated milk. We have a separator. The next is the chickens. We have about 200 chickens and have four hen houses. We get four eggs a day. We have a seven-room house. We have a piano and I take music lessons.

Elva Whisler.

FIELD NOTES.

Red Polled bulls are advertised for sale by Mr. C. W. Huff, of Mondamin, Iowa, on page 26.

Cruickshank bulls are advertised for sale by Mr. C. C. Norton, of Corning, Iowa, on page 26.

Mr. C. H. Drake, of Hazleton, Iowa, has Scotch Collie pups for sale as advertised on page 14.

Mr. J. W. McBeath, of Gallatin, Mo., wants to sell his farm and advertises the same on page 15.

Mr. Mark W. Eddy, of Fontanelle, Iowa, is offering good fall Duroc Jersey boars for sale on page 25.

Mr. O. J. Early, of Bristow, Iowa, breeds Scotch Collie dogs and advertises pups for sale on page 14 of this paper.

Mr. F. W. McIntyre, of Red Oak, Iowa, has an interesting Poland China proposition to offer the breeders on page 25.

Thirty-two head of splendid fall Poland China boars are advertised for sale by Mr. Chas. Humerick, Atlantic, Iowa, on page 25. These are strictly all right and so is the price. Write Mr. Humerick about these at once.

If you want a Poland China sow bred to the celebrated big-type boar, A. Wonder, for a fall litter write Mr. H. Fesenmeyer, Clarinda, Iowa, at once. He is offering some good boars and sows for sale at the present time.

Mr. Jesse Elliott, of Woodward, Iowa, breeds Holstein-Friesian cattle, and in his advertisement on page 23 presents some new facts for consideration of those who are in the market for cattle of this breed, either male or female.

Scotch and Scotch-topped bulls, good enough to head herds, are advertised for sale by Mr. S. A. Bixler, Corning, Iowa, on page 26. These bulls are priced right and it will pay any man wishing a Short-horn bull to go and see them.

Mr. F. H. Herring, of Iowa City, announces November 2d as the date for his annual sale of Duroc Jerseys. Mr. Herring has one of the good herds of Durocs and none are better bred. It will be well for our readers to keep this sale in mind and watch for full particulars which will be given in The Homestead.

Mr. S. Harr, of Riverdale, Iowa, announces that he has still for sale some good Scotch Terrier dogs. The Scotch Terrier is an acknowledged rat killer of unequalled merit, a watch dog of excellence and one which stays at home. As there is a lively demand for pups of this breed our readers will do well to forward their orders without delay.

Mr. John D. McMahon, of Clare, Iowa, breeds Poland China hogs and Short-horn cattle. He has this spring a crop of forty pigs, the get of Black Diamond, he a son of Moderator. Their dams are of Tecumseh and Chief Perfection strains. Mr. McMahon's advertisement will appear in this paper later in the season, at which time additional facts will be given concerning his herds.

Mr. F. W. McIntyre, breeder of Poland China hogs, of Red Oak, Iowa, whose advertisement is on page 25, writes under recent date, saying: "My hogs are doing well. I believe I have the best hogs that I have ever raised. I have 100 pigs, mostly of March farrow, and fifty fall pigs. There are a few very choice yearling sows bred to farrow in July and August that I would like to sell. I will make reasonable prices on them."

Mr. Will M. Southall, Irwin, Iowa, has about forty good Duroc Jersey pigs this year sired by Nora's Advance 86677 (the splendid yearling boar owned jointly by himself and Mr. George Gawley), also by Wonder's Advance, Golden I Am and Golden Model 3d. Nora's Advance, the yearling boar referred to above, is a son of Wonder's Advance, he by Top Advance by Top Notcher again by old Top Notcher, dam Nora Girl by Tacoma Prince by old Advance. There is some good breeding behind this boar and he is one of the good ones we have seen this year. Wonder's Advance 78809, Mr. Southall's older boar, is out of Princess Wonder by Crimson Wonder, and he is a strictly big-type Duroc Jersey boar and quite a good one. He has several litters by this hog also. He has two good litters by Golden I Am and one litter by Golden Model 3d. He will not make a fall sale, but in all probability will be in on the winter sale circuits.

Mr. Theodore Schwery, of Earlring, Iowa, has seventy-five head of Duroc Jersey spring pigs and twenty head of fall boars and sows this year and he is giving them the best of attention, with the hopes that he will have something the men will all want this fall. The most of the spring crop are sired by Massena Chief, a son of Ohio Chief and a litter brother to the noted boar, Valley Chief. Massena Chief is owned jointly by Mr. Schwery and Mr. John Goddard, of Harlan, Iowa, and he is one of the best breeding boars ever sired by Ohio Chief. These two breeders also own the show boar, Kruger Advance, one of the strictly big-type Duroc boars, and they are now offering him for sale. The breeder who wants a large boar of the big-boned kind will be pleased with this hog. Mr. Schwery has pigs by him and also by Victor, the big son of Improver II. Mr. Schwery will be out to some of the fairs this fall with a good bunch of boars and will be pleased to show the gentlemen what he has. His winter sale will be held on January 7th when he expects to put up the best offering he has ever sold. Later in the season we

will have more to say about what Mr. Schwery has for sale.

Hereford bulls are advertised for sale by Mr. A. F. Haeger, of Avoca, Iowa, on page 25.

Mr. Perry O. Brown, of Lamoni, Iowa, offers Scotch and Scotch-topped bulls at farmers' prices on page 26.

Thirty-five head of Chester White fall boars and sows are advertised for sale by Mr. John F. Holst, Jr., of Denison, Iowa, on page 24.

Mr. C. W. Phillips, of New Sharon, Iowa, has over fifty spring pigs of the big-type Poland Chinas. They are sired by On Exhibition, a grand son of Chief Tecumseh 2d; P's I. X. L. Major Hadley, Victor Price and Balance Jumbo. They are mostly of March farrow and are more even than any bunch of pigs we have seen this spring. Mr. Phillips will hold a sale November 3d and, barring accidents, he will have a hard offering to beat. Full particulars will appear in The Homestead in due time.

Messrs. B. H. Hakes & Son, of Williamsburg, Iowa, are consigning the two-year-old bull, Dainty King, to the sale of Messrs. Jesse Binford & Sons, to be held at Liscomb, Iowa, on June 21st. This bull is a deep, blocky bull with a good spring of rib and plenty of breed character. They have used him some, but his being closely related to the herd is the reason of their offering him for sale. He is sired by Narcissus King and out of the Dainty Dame cow, Dainty Dorothy by Victor of Glenwood. He is of good Scotch breeding and should be looked after by anyone in need of a herd bull.

Mr. George Gawley, of Irwin, Iowa, is one of the newer breeders of Duroc Jerseys who has been building up a good herd of late years. Mr. Gawley is a half owner in the splendid yearling boar, Nora's Advance, and he is fitting him for the fairs this fall. He is one of the good boars seen this season and it now looks like he might have a fighting chance at the fairs this fall. Mr. Gawley has five or six litters by this boar, also a couple of litters by Top Advance and a few by other well-known boars. He has about seventy-one spring pigs. He expects to see the breeders at the fall fairs and will have

secure a foundation for a herd that will be a very profitable investment to the purchaser. Send for catalog at once and kindly mention The Homestead when so doing.

E-Kruger's Chief for Sale.

The Duroc Jersey breeder who is wanting to buy a tried herd boar is requested to read the advertisement of Mr. J. E. Wehr, Portsmouth, Iowa, on page 23. He is offering to sell E-Kruger's Chief, a son of the noted Iowa State Fair winning boar, Kruger Lad, he by old Kruger and out of the noted sow, Chief La Belle, she by Ohio Chief and out of the great brood sow, Nebraska Belle. You cannot get a better bred boar and he is a good breeding hog. Mr. Wehr is through with him and is anxious to dispose of him and will make the price right. Write him right away if you want a good breeding boar.

Dodd's Hampshires.

Mr. G. H. Dodds, of Kenton, Ohio, of Hampshire fame, starts an advertisement on page 23 of this issue of The Homestead. A field man was more than pleased with the quality of this herd and it makes us feel like breeding Hampshires when we see a good bunch of swine like Mr. Dodds is offering for sale. The four fall males are extra good. One looked like a ribbon winner if fed out, but Mr. Dodds will not show this year. A litter sister to this male is also extra good and should go to the shows by all means. There were twelve pigs raised in this litter and eleven out of twelve were belted fine. They are by the great show boar, Kentucky King 1165, he being champion boar at Ohio and Kentucky State Fairs and Interstate Fair, South St. Joseph, Mo., defeating the great Mo. King. At the Kentucky State Fair, 1908, Mr. Dodds won champion sow, eight first, seven second and two third prizes on fifteen head in strong competition. At the Ohio State Fair, 1907, his herd won five first, seven second and three third prizes in strong show. These are the only shows Mr. Dodds ever made and are surely a creditable showing. The herd surely shows class, refinement and type. We take pleasure in recommending Mr. Dodds'

Co., and if you write them kindly mention The Homestead.

Sells' Crimson Wonders.

The Duroc Jersey breeder who is looking for a boar to head his herd this fall cannot do better than to send an order to Mr. W. M. Sells, Indianola, Iowa, and get one of those fall boars sired by the sweepstakes boar, 'Crimson Wonder Again, and out of the famous brood sow, 11. A's Queen. More good herd boars have come from this mating than from any other one boar and sow in this country. There are some strictly good boars in this litter and Mr. Sells is pricing them right. Send him an order for one of these at once and you will get in right. Every boar that came from this sow is heading a good herd and you can guess what kind of a breeder she is. Don't hesitate on this proposition, but send Mr. Sells an order at once for one of these pigs and kindly mention The Homestead when writing him. See page 24 for his advertisement.

Stevenson's Scotch Collies.

Mr. T. A. Stevenson, of Shannon City, Iowa, is offering Scotch Collie puppies for sale. He has two litters whelped the 24th and 25th of May, 1910. They are a grand lot of puppies and the breeding is strictly first class and their veins are chock full of champion blood on both sire and dam's sides. If you want an extra fine sable and white female pup for breeding purposes with perfect markings, here is your place to get one for \$10. Most breeders would ask you from \$15 to \$25 for pups as well bred as these are. These puppies should go to those parties who desire to get something strictly first class in every respect. The two litters are not akin and if you want a pair for breeding purposes he can furnish them if you order at once and you will get as good blood as there is in this or the old country. One of the great-grand-sires in their breeding cost 500 pounds, or \$2500. He furnishes pedigree with each pup sold and guarantees safe delivery to your railroad station, and will treat you white every time. See his advertisement on page 14 and write him for what you want.

Harvey Moats' Poland Chinas.

Fifty spring pigs and fifty good ones is the number of Poland China spring pigs that Mr. H. B. Moats, of Villisca, Iowa, has on the farm this spring. Some of these are as good as we have ever seen on the place, and they are the big-type kind with quality combined. The most of these are sired by M's Hadley 147847, a son of Big Hadley, one of the largest and biggest-boned boars in that part of the state. Mr. Moats has been selecting some large sows for his herd during the past few years and he has as many strictly big sows as will be found in any herd. We saw some excellent litters while inspecting the herd. One good litter was out of Lady S. 2d, a daughter of A. Wonder; another was out of Ina's Climax, and another was out of Darkness 4th by Wintermute's old Jumbo. These were all sired by the big boar, M's Hadley. Mr. Moats has other good litters and he is going to have some good boars to offer the trade this fall. The man who is figuring on buying a boar later in the season cannot do better than place an order with Mr. Harvey Moats and let him pick the pig. We will guarantee it will be satisfactory to the purchaser. There is not a more reliable breeder today in the West and you can absolutely depend on what he tells you. His advertisement will appear in The Homestead columns a little later in the season.

Glissman's Great Holstein-Friesian Sale.

We again call attention of our readers, and especially those who are interested in dairy cattle, to the Holstein-Friesian sale of Mr. Henry C. Glissman, at South Omaha, Neb., on Tuesday, June 28th, when he will dispose of 100 head. The cattle are in splendid condition and it promises to be one of the greatest opportunities that will be offered in the West this season to buy high-class dairy cattle. Many of the cows and heifers in this sale are sired by some of the celebrated bulls of the breed. Such sires as Hengerveld De Kol, considered to be one of the greatest sires today of this great breed of cattle, will be well represented in this sale. Also De Kol's Fatter Boy, Sarcastic Lad, King of the Fontiacs, and others equally celebrated will have representatives in this sale. Altogether, there will be seventy-five head of cows and heifers in this offering and these are as good as have ever been offered in any sale in the West or East. Many of the cows and heifers are in milk or will soon be fresh and they certainly are a grand good lot in every way. Many of these cows and heifers are bred to the most noted bulls in the East, many of which have been winners themselves and have descended from a line of winners. There is not a better judge of a Holstein-Friesian cow in the West than Mr. Glissman, and when he tells you that he is putting up an offering such as is seldom seen in a western sale you can figure it out that he is putting some good cattle in this sale. There is a splendid lot of good milkers in this offering—cows and heifers with great big udders, well formed and with perfect teats. To see them is to want them and we will say to those who are wanting some good Holstein-Friesian cows and heifers that they can be had in this sale. He has also selected twenty-five head of young heifers and these are equally well bred. Then there will also be twenty-five head of young bulls and some of these are bred in the purple. A few of these young bulls are sired by some of the most noted sires in the East and have for dams cows that have great butter

NEXT WEEK'S SALE PROGRAM

Tuesday, June 21	{ Short-horns, Jesse Binford & Sons, Liscomb, Iowa. Holstein-Friesians, Robert E. Haeger, Algonquin, Ill.
Wednesday, June 22	{ Holstein-Friesians, Robert E. Haeger, Algonquin, Ill. Red Polls, J. C. Thompson, Jamaica, Iowa.
Thursday, June 23	{ Holstein-Friesians, Robert E. Haeger, Algonquin, Ill.

a few hogs with him when he does go out.

Mr. W. W. Baskerville, of Earlville, Iowa, announces that he will now sell eggs from prize-winning Black Langshans at greatly reduced prices during the remainder of the season. These are from pens of high-scoring birds. Note these low prices in the advertisement on page 14.

A Splendid Young Bull for Sale.

A splendid young Cruickshank Secret Short-horn bull is offered for sale by Messrs. I. S. & W. B. Duncan, of Clearfield, Iowa, on page 26. He is sired by the great bull, Gloster's Favorite, and he is a bull that is fit to head any good herd. They also have a couple other good young Scotch bulls to offer. Write Colonel Duncan about these bulls at once and take our word for it that they are good when you see them.

Schain & Keep's Big-Type Polands.

Eighty head of spring pigs have been recorded in the tally list at the farm of Messrs. Schain & Keep, Atlantic, Iowa, so far this season. They look promising to us at this season and if they keep on growing Mr. Keep will again have some good boars to offer the trade this fall. These are sired by B. L's Chief and Big Price and they also have one good litter by Atlantic Boy, he by Tecumseh Longfellow. These pigs are out of strictly big-type sows of the Mastodon, Jumbo and Long King strains. These gentlemen have two fall boars and one yearling boar that they will sell at any time. Remember this firm when you want to buy a boar this summer or fall. They always sell worth the money and their prices are always reasonable.

Three Hundred and Fifty Holsteins at Auction.

Probably the most noted event of the year in Holstein circles will be the sale of 350 head to be held at Algonquin, Ill., on June 21st, 22d and 23d, by Mr. Robt. E. Haeger. All who have not yet received a catalog should write for one at once. It is impossible to go into details regarding this large offering, but it is sufficient to say that the quality and breeding of the cattle to be sold is up to the highest standard and no one looking for good cattle will be disappointed. There will be cattle for all classes of buyers, so do not stay away expecting them all to sell out of your reach. It is safe to say that there will be a number of cattle sold in this sale that will not bring near their value, owing to the large number to be sold. This herd has produced many prize winners at the state fairs and National Dairy Shows and it will be a good place to

herd to the buying public. When writing please mention The Homestead.

Do You Want Guernseys?

The Helendale Guernsey Farm, at Athens, Wis., is not only noted in this country, but throughout the world. There Yeksa Sunbeam made her record of 14,920.80 pounds of milk and 857.15 pounds of fat. While this record has never been surpassed by any of her herd mates, yet a long line of Helendale cows have been advanced to the official register. Already twenty cows in the herd at Athens have qualified with better than 500 pounds. These cows, almost without exception, are combinations of the Materna and Yeksa families—two names unexcelled in Guernsey breeding. Whether you are a breeder or a dairyman it will pay you to build upon such blood. The proprietors of the Helendale Farm have a limited number of animals for sale at this time. Look up the advertisement on page 25 in this issue.

Hereford Bulls and Duroc Jersey Boars.

We desire to call the attention of Homestead readers to the advertisement of the Messrs. Edmonds, Shade & Co. on page 23 of this week's issue, and we will say to those who are wanting either Hereford bulls or Duroc Jersey boars that they are offering some strictly good things at the present time. The best bunch of Hereford bulls that we have seen on any farm this summer are now at their celebrated Shadeland Farm and are ready for service and are for sale. The herd bulls that they are using are Imp. Albany, Columbus 35th, Duke of Albany, Beau President and Domino. Besides these, they have a grand good lot of young bulls and they are sired by the above herd bulls. They will sell any two of their herd bulls and they will sell any or all of their younger bulls. The younger bulls are out of Lamp-lighter and Beau Brummel cows and they are a strictly first-class lot of bulls in every way and right in every way to head good herds. Messrs. Edmonds, Shade & Co. are desirous of disposing of these bulls and we will say to Homestead readers who are wanting Hereford bulls to pay them a visit and secure one before they are picked over. They are also offering twenty-five head of fall boars for sale and these are nearly all sired by Carl's Colonel, the grandfather of all the Colonel family. These are out of their best sows and they will sell them right. It had been their intention to retain these boars for a fall sale, but they say they will now sell them at private treaty. If you want a good Carl's Colonel boar to head your herd, go and see Messrs. Edmonds, Shade &

records behind them. If you are wanting milking Holsteins you will certainly be interested in the Glissman sale. He has issued a splendid catalog which should be in the hands of everyone who is interested in Holstein or dairy cattle. It will be sent to readers of this paper who mention it when writing for it at once and then be sure that you attend the sale. Mr. Glissman promises to show you the best bunch of Holstein-Friesians that has ever gone through a Holstein sale in the West. See page 26.

Kinloch Farms Jersey Cattle.

The writer who very recently inspected the Jersey cattle quartered at Kinloch Farms, Kirksville, Mo., for their greatest sale to be held on Thursday, June 30th, desires to assure our readers that this is unquestionably the greatest lot of Jerseys ever gotten together in the West. Dr. C. E. Still is known as one of the best judges of the breed and those who know him personally know that he is interested in the best only, hence when it is known that the imported cattle were selected personally by Dr. Still on the island, every Jersey breeder will at once know that a great string was brought over. Mr. V. E. Fuller, one of America's foremost and better judges of the Jersey, recently inspected the Kinloch offering and we take the liberty of quoting what Mr. Fuller has to say of the cattle: "In 1906 Dr. Still was joined in the business by his brother-in-law, Dr. G. M. Laughlin, who is quite as enterprising as 'Dr. Charlie Still,' as he is familiarly known, and who, like him, loves a good cow. It will be remembered that at the Cooper sale of 1909 Kinloch Farms bought that famous bull, Viola's Golden Jolly, for \$12,000, and he joined the good bulls in the Kinloch stables, among them being Beatrice Stockwell by Stockwell, out of Golden Beatrice 2d, and Financial Countess' Lad by Fabb Shylcock, a son of Carnation's Fern's Lad and Fabulous Interest, out of Financial Countess, and both of the two last named are in the Kinloch Farms sale of June 30th. Probably one of the greatest bulls on the farm is Jolly's Royal Sultan, sired by Viola's Golden Jolly, out of Majesty's Lady Houpla by Majesty, out of Lady Houpla. He traces forty times to old Sultan P. 7 H. C., the foundation of the Golden Lad family and other families that have become very valuable on the island of Jersey. The sale of Jerseys to be held at Kinloch Farms, Kirksville, Mo., on Thursday, June 30th, will consist of 150 head, more than 100 of which are imported. It should be the great event of the West this year, as the quality of the offering justifies it. The two bulls already mentioned, grand and famous animals, will be sold. There will be daughters of Leda's Golden Lad, Mabel's Raleigh, Raleigh's Fairy Boy, Oakland Sailor (a son of Sultan of Oaklands), Golden Maid's Prince, Martha's Prince (son of Golden Maid's Prince), Bright Prince (son of Lady Viola), Combination, Lucy's Prince (son of Golden Maid's Prince), Beauvoir King, Gambo's Knight, Golden Castor, Cowslip's Golden Lady, Plymouth Lad, and 'one of the best young bulls on the island,' Firefly's Glory by Ida's Glory; Trial of Oaklands and Dorothy's Majesty by Majesty, out of a great cow; Cowslip's Astor and Campanile Sultan, a son of Sultan of Oaklands. We have said that Dr. Still is one of the best judges of Jerseys in the United States, and we were glad to hear him say, before we went into the barn to examine the cows, that when he went to the island he first examined the cattle for individuality and then looked up their pedigrees. This has always been our own custom when buying cattle. It is the udder that really makes the cow; and after the doctor told us he had made the udder the first consideration, we were not surprised to find the most perfect lot of udders we ever saw on so many cattle. The seventy imported heifers are in milk, most of them with their first calves, or near enough to calving to show the shape of their udders. The udders of all are perfect in front and rear, are large for the ages of the heifers, level, and with good-sized teats perfectly placed. We are sure no other breed could show an equal number of milkers with such beautiful udders. This lot is very milky looking and a great many of them have unusual constitution and substance for island cattle. Certainly they are very beautiful. Most of the imported females in milk are two years old, so they have long lives of usefulness before them. One cow is five years old, one four, and three are three years old. The majority will have been bred to Viola's Golden Jolly, whose get we have often praised for their fine finish. This lot reflects credit on even so good a judge as Dr. Still and we can assure those of our readers who attend the sale that they will find Jerseys ideal in every way; not pampered, but in just the right condition to go on and do good work. We will not attempt to describe the females, as they are such an even, good lot that it would be very hard to select the best. The handsome Viola's Golden Jolly was first led out for us, and he was as gentle as a lamb, in strong contrast to his nervousness in the ring when sold to Dr. Still. He has filled out and grown remarkably since we last saw him, and has improved 100 per cent. He made a picture we shall never forget. The business of a sire is to transmit his inherited qualities. What bull could have a more beautiful dam than he had? One of his strongest characteristics is that he passes on to his daughters that beauty of type and finish that his dam has. Beatrice Stockwell is a wonderfully handsome fellow, too, with plenty of substance, and as clean and beautiful a head as we ever saw on a bull, set off by a lovely pair of horns

and on a grand neck. His carriage is very showy and he has a back that it would be a hard matter to improve on; a long, straight rump, a deep body and splendid under lines. He handles beautifully, has long and very well set rudimentaries and is a show bull all over. He can be shown as a two-year-old and will be a hard proposition to go up against. With such a sire and dam as his, and so admirable an individuality, his worth can hardly be estimated. Financial Countess' Lad is a yearling and a picture of beauty, as handsome a yearling as we ever saw. His head and neck cannot be excelled, and would be hard to equal. His throat is absolutely clean. For his age he is a very large bull, but is built on beautiful lines. His back is straight as a die, his paunch large, his body and ribbing splendid, he handles beautifully, has extra good rudimentaries and is one of the best show yearlings we remember. Jolly's Royal Sultan is sired by Viola's Golden Jolly, out of Majesty's Lady Houpla. With that dam and Lady Viola as granddam, two of the most beautiful cows that ever came to this country, he should be something great, and one is not disappointed in looking at him. He is eleven months old, has a lovely head and neck, superb back lines, clean set tail, and for his age a wonderful paunch. He is well grown and shows great substance, in combination with that beauty of finish that Viola's Golden Jolly puts on all his get that we ever saw. This youngster is a very valuable bull. While most of the cows and heifers will freshen prior to the sale, there are some, and good ones, too, which will not come in until August. This sale will enable buyers to secure the best lines of breeding; cows and heifers most carefully selected by a competent judge; show cows and workers. Those of our readers interested in good Jersey cattle should send for one of the Kinloch Farms' beautifully illustrated catalogs. See advertisement on page 23 and kindly mention The Homestead.

Lentz & Sons' Durocs.

The firm of Messrs. A. Lentz & Sons, Pierson, Iowa, are strictly in it this year with 170 spring pigs, together with about ten or fifteen head of fall farrow. Their spring pigs are doing well and are farther along than we have ever seen them at this season of the year. Their new herd boar, Echo Top King, is looking fine and he is a grand good hog. This boar was first-prize senior yearling at the Nebraska State Fair in 1908, his brother was second-prize boar and the litter won as get of sire. Messrs. Lentz & Sons secured him last winter from Messrs. Gilbert Van Patton & Son and he certainly was a good buy. They secured a sow bred to him at the same time and she has a good litter by him. Their other litters are sired by Colonel Scott, Prince of Colonels, Muncie Chief, King Solomon 2d, Iowa Notcher, Golden Model 3d, Mackey's Colonel and A. L.'s Colonel. They have two excellent litters by Colonel Scott, one of which is out of Lady Superior (the dam of C. H.'s Special) and the other out of a sow called Rosa Gold Dust. There are some excellent boar prospects in these two litters. Then they have a corking good litter of ten pigs by Muncie Chief, out of Proud Queen by Proud Advance. There are six sows and four boars in this litter and they are strictly good. They have other good litters, but we defer mention of these until later in the season, when we will tell you more about them when their advertisement starts in The Homestead.

Last Call for the Binford Sale.

It looks very much as though the farmer who took up the raising of beef cattle with especial interest would be getting good returns during the next few years. The connotations have not for many years been so highly promising as today. It is, therefore, of particular interest that there are available to buyers cattle which have a record of being money-making producers as well as most excellent specimens of the Short-horn breed. These are just such as are included in the sale of Short-horn cattle to be held by Messrs. Jesse Binford & Sons, of Liscomb, Iowa, on next Tuesday, June 21st. The female offering is one of unusual excellence and promise. We cannot recall any sale for several years of which so great a proportion of the cows was sold with calves at foot. This is the best indication of the breeding character of a cow and certainly adds a very great percentage to her value to the buyer. The man who buys knows just what he is getting and what the prospects are. The Binford herd has been producing and selling just this sort of cattle and their patrons have never been known to find fault with the results obtained. The bull consignment is an extra strong one. One of the good things is Prince Victor, a two-year-old son of Champion Chief 2d, dam a daughter of Double Victor, second dam Imp. Lady Dorothy 36th by a Marr-bred sire. The importance of the Dorothy tribe in Short-horn advancement has been so great as to need no further reference. This young bull is solid red, a good looker and in every particular desirable. Hilton Scotchman is a splendid bull that received some detailed reference in our last issue. Golden King is a coming three-year-old by Wabun. His dam was Silver Queen 2d and his second dam Imp. Silver Queen. This bull is a handsome red fellow with a promise of massive maturity and a general excellence that will be well appreciated by those who want good conformation, with style and finish. Diamond King is a yearling son of Dainty Scotchman 6th and of good lines of breeding on the side of the dam. One Duchess of Gloster bull, about ten months old, is by the same sire and from a Duchess of Gloster dam of high merit. These

WOOL WE BUY HIDES, WOOL AND FURS WOOL

DON'T sell wool at home. You can get two cents more per pound by shipping to us. Write for price list. MASON CITY HIDE & FUR CO., 537 East Seventh St., MASON CITY, IOWA.

bulls have not been crowded nor particularly prepared for the sale, but they are thrifty, in good form, and just at their best for the purposes of buyers. It should be recalled that there is no chance for further reference to this sale. Catalogs may yet be secured by writing immediately to Messrs. Jesse Binford & Sons, Liscomb, Iowa. Their advertisement will be found on page 28. Plan to attend the sale.

A Handsome Hampshire.

We are pleased to present herewith an illustration of the Hampshire hog, Blythedale Jim 2117. This is a very large hog, with heavy bone, and one whose strong points of excellence are



best shown in the engraving. He is owned by Mr. George Lippert, of Magnolia, Ill., who advises us that he has for sale March and April pigs by this hog. He also states that he is fitting a show herd which will appear at some of the state fairs. See page 25.

Prominent Iowa Jerseys.

Messrs. White Bros., of Centerville, Iowa, have for some time been getting together a most desirable herd of Jersey cattle. That they have succeeded in a satisfactory manner was demonstrated some time since when the Iowa Dairy Special, on its tour through the southern part of Iowa, stopped at Centerville. The event was made the occasion of a strong dairy show which included, as stated by Prof. Hugh G. Van Pelt, one of the best dairy cow shows ever held in that part of the state. Fourteen milk cows were included, carrying the blood of scrubs, pure breeds and general mixtures. The Jerseys carried away the first six prizes. The first and third places were won by Messrs. White Bros. on Cherry Blossom's Beauty and Roberta Maid. The former is an imported cow. In the evening an interesting comparison was made when at the opera house, Cherry Blossom's Beauty represented an extreme, high-class dairy cow, and an old brindle cow illustrated the opposite or undesirable type. Professor Van Pelt stated that the contrast between the cow owned by Messrs. White Bros. and the common cow was a very useful object lesson and a plainly-drawn illustration of essential points that should be observed in selecting cows for milk and butter fat production, as well as for breeding purposes. The White herd possesses the stronger points enumerated above. It is headed by a son of Silverine Comassie, and with the blood that has been used as foundation material the outcome of the herd is certainly one for flattering expectations. See advertisement on page 26 of this issue.

The Thompson Red Polled Cattle Sale.

Mr. J. C. Thompson will, on the 22d of June, make a public sale of registered Red Polled cattle. The sale will take place at his farm, two miles from Jamaica, Iowa, and about the same distance from Herndon. The latter point is the crossing of the main line of the Milwaukee road with the Des Moines division of the same line. This affords unusual convenience to those who attend the sale. They may get in and out on the same day without any difficulty whatever. Mr. Thompson, as stated in our last issue, secured this herd in its entirety from Mr. Ed Dosh, of Guthrie Center, Iowa, sometime ago. He now finds, however, that a son on whom he had depended to take up the farm work with him at the conclusion of his term at college, had determined to follow other lines. This, therefore, made the care of the herd greater than he felt equal to, and for that reason he decided to put the entire bunch on the market. The herd is one which had been maintained for practical dairy purposes. It was founded by the purchase of large-sized Red Polled cattle of the most productive dairy strains. It has been built up since by careful selection and the purchase of sires of acknowledged merits along the same lines. The results have been gratifying. It is a fact that the herd stands among the good ones of the state, as well as one of the largest. It has in service two herd bulls, Slogan 13819 and Nailer Boy 17205. Slogan is a six-year-old bull, a very large fellow weighing around 2,200 pounds, although not having been fleshed or fitted for the sale. He is one of the big fellows of the breed and has so much merit that only a short time since a prominent showman tried to buy him for show purposes. He is still susceptible to fitting which would put him in the show-yard class, but the better fact, and one of more importance to our readers, is that his calves have developed into the most desirable sort of Red Polls. Nailer Boy was bred by Arp, whose record in the show rings has been an enviable one. The bull himself was a winner at the Iowa

Get 2¢ More For Your Wool!

Don't sell a pound of wool till you have had word from the biggest wool house in America. Those who have heeded this advice are making an extra 2c to 3c per pound on their wool.

Through us you can sell to the woolen mills and get mill prices. We are selling 20 million pounds a year to these mills. We can sell your wool for you, and our commission will be much less than your extra profit.

The Chicago market is the best in the country—the most active and aggressive. So don't even think of closing at home before we write you. Write a postal now so we may explain the proposition fully and put your name on our free mailing list for monthly market reports. S. SILBERMAN & SONS, Desk 15, Chicago, Illinois. Successors to SILBERMAN BROS.

STEM-WINDSET **EARN WATCH RING AND CHAIN** BY SELLING 24 CARDS OF 10 C. ART JEWELRY. WE GIVE this gift and ring for selling 24 cards of 10 cent art jewelry. Order jewelry. We trust you. When sold send \$2.40 and receive premiums. N.H. Spencer, Horton, N.Y.

300 Goats Wethers, Does and Bucks. Wyatt Carr, Collins, Iowa.

EARN FAIR RIFLE AND RING WE GIVE this rifle and ring for selling 24 cards of 10 cent art jewelry. Order jewelry. We trust you. When sold send \$2.40 and receive premiums. Samuel Cooper Company, Dept. 28, Horton, N.Y.

State Fair and, while he is not now in flesh which would attract attention, he still retains the possibility of getting back into the form which wins ribbons. The cows are milkers and calf raisers. For that reason they are in what might be termed light flesh, but they are good cows, largely of milk conformation, with a size which will be of interest to the farmer who has made beef producing one of his principal points. Catalogs of this sale may be had by writing at once to Mr. J. C. Thompson, Jamaica, Iowa. Read the advertisement on page 27.

Red Polled Bulls and Cows for Sale.

On page 23 of this week's issue will be found the advertisement of Mr. C. A. Crawford, Anthon, Iowa, who is offering ten head of Red Polled bulls and twenty-five head of cows and heifers for sale at private treaty. The bulls range in age from ten months to four years. Mr. Crawford is offering his present herd bull, Improver, for sale, and he is a son of the show bull, Perfector. He also offers a two-year-old bull called Diamond Chief for sale, and he is a son of Tiger Boy, and he by the renowned show bull, Abbottsford. He also offers eight head of splendid young bulls for sale. He says he will sell about twenty or twenty-five head of cows and heifers for sale, practically all of which are hand milked. Mr. Crawford has one of the good Red Polled herds in the West and here will be an excellent place to buy some of these popular cattle. He says for us to say to Homestead readers that he can easily fit a man out with a car load and if they will come to the farm he will make the price right. Don't overlook this opportunity to buy Red Polled cattle and when writing Mr. Crawford kindly mention The Homestead.

Williams Bros.' Poland Chinas.

We desire to call attention of the readers of this paper to the advertisement of the Messrs. Williams Bros., Villisca, Iowa, who are advertising Poland Chinas in this issue. They have a splendid lot of spring and a few good fall boars for sale and the man that wants a good pig cannot do better than send them an order at once. This firm are making special prices on these boar pigs just now and the man who sends an order at this time will save much on the price this fall. These are sired by the great boars, M's Major, Young Look and Pawnee Price, and they have the size and the bone combined. They have a number of splendid fall boars on hand and among these are some good herd headers. One especially good fall boar is sired by Young Look and is out of Villisca Belle, one of the very best boars they have on their farm. They tell us he is doing fine and will now weigh 300 pounds and is not fat. We saw this boar early in the spring and he was a good one at that time, and they now tell us that he is good enough to head any herd. The man that is looking for a herd boar had better send them an order for this boar at once. They weighed some of their February spring pigs the other day and some of the boars weighed 110 pounds and the gilts weighed 100 pounds. They are selling

gifts also and they can fill orders for gifts and a boar to go with them that is not related at bargain prices. Messrs. Williams Bros. have one of the best Poland China herds in southern Iowa and you can depend on being treated right if you send them an order. You can save considerable by sending them your order right away. See page 25 for advertisement.

Vaughn's Short-horns.

Mr. W. W. Vaughn, of Marion, Iowa, is offering for sale at this time twenty yearling and two-year-old heifers. They are of the Scotch Orange Blossom, Clara and Lady Lenton families, besides a few of the best American families, such as Young Mary, White Rose, and others. A number of them are sired by Headlight and bred to Brawith Lad, and the balance are sired by Brawith Lad. Headlight was sired by Imp. Red Knight and out of Imp. Strawberry 6th. Brawith Lad was sired by Morning Joy by Imp. Joy of the Morning and out of a Brawith Bud cow. The heifers Mr. Vaughn is offering sired by these two bulls are a good, useful lot and it would be a good place to get a foundation for a herd. The prices asked for them make it a doubly attractive proposition. Mr. Vaughn still has some good Scotch bulls for sale. Claudia's Lad is a red and white two-year-old bull sired by Brawith Lad and out of Imp. Claudia 4th, a Scotch Clara cow. This bull has plenty of size and quality and should be doing service in some herd. A yearling bull by Headlight and out of an Orange Blossom cow is ready for service. Mr. Vaughn also has two Scotch bulls a year old that are priced reasonable. Mr. Vaughn will be pleased to quote prices on a bunch of heifers or a young bull to any of our readers who are contemplating a purchase along this line. See his advertisement on page 26 and write for what you want. Please mention The Homestead when writing.

John Eckhardt Offers Hereford Bulls.

Mr. John Eckhardt, of Wellman, Iowa, is starting an advertisement in this issue of The Homestead calling attention to ten Hereford bulls he has for sale. Mr. Eckhardt has been quietly getting together a herd of good cattle and has used good judgment in his selections. We want to call especial attention to a seven-months-old bull calf sired by his herd bull, Edgar, bred by Mr. W. T. Wright, of Mt. Pleasant, Iowa. This good calf is out of Joy 1st by America. The best yearling heifer on the farm is also out of this cow and sired by Edgar. The young bull above referred to is little short of a show calf and if properly taken care of will make someone a good show and breeding bull. There are a number of other bulls in the herd that should find a good home. A few of the best cows in the herd are Joy 1st by America, Barbara by Sensation, Barbara Wilton Yet by Anxiety Wilton Yet, Elizabeth by Wilton Alamo 6th, Lady Brummel by Beau Brummel 4th and others of equal quality as good breeding. The male produce of such cows as the above are what Mr. Eckhardt is offering. He breeds good cattle and takes good care of them. His prices are low, considering the quality of cattle he has to offer. His farm is six miles from Wellman and eight miles from North English. If any of our readers are in the market for a good Hereford bull at a very reasonable price we would advise you to visit Mr. Eckhardt or write him for particulars. He is a straightforward business man and will treat you right. His announcement appears on this page. When writing please mention The Homestead.

The Lakewood Percheron Sale.

Messrs. H. G. McMillan & Sons, of Rock Rapids, Iowa, announce their seventeenth public sale of Percheron horses to take place in the sale pavilion at Sioux City, Iowa, on Tuesday, June 28th. Fifty head of horses are in training for this sale. Six of these are matured mares from four to seven years old. Fourteen are two-year-old fillies and thirteen are one-year-old fillies. There will be eighteen stallions, five of them being two-year-olds and the others yearlings. These are mostly the get of the three great stallions, Calypso, Olbert and Cartilage. Calypso is the well-known, old, undefeated champion stallion of America and sire of more prize-winning Percherons than any other horse in America. Olbert was a winner of first in the aged class at the International of 1905 and champion at Iowa and Minnesota State Fairs of 1906. Cartilage was the first-prize three-year-old at Chicago, 1906. The matured mares and two-year-old fillies are all bred to Calypso, Imp. Inscrut and Imp. Historian. Imp. Inscrut was winner of first prize as a yearling at the International show of 1909 and is considered one of the best two-year-old Percherons in America today. Imp. Historian is a three-year-old and by good judges has been called one of the best imported three-year-olds on this side of the water. These three head the great Lakewood breeding establishment and are undoubtedly the equal of any three that are to be found on any other one breeding farm in America. The mature mares and fillies in this sale are of such a character as to make this a great opportunity to secure the best. The yearlings, both stallions and fillies, will be of good quality, of proper lines of breeding and just the sort that will be growing into money from the very day of purchase. The five two-year-old stallions are extra good ones and, as it is out of season for the sale of this class of horses, they will undoubtedly go very cheap and be profitable purchases. At this sale every horse will be sold strictly on its merits and every one will be sold if a single bid is placed on it. The Messrs. McMillan never reserve anything cataloged for their sales and their guarantee is always

fulfilled. The advertisement of this sale will be found on page 28. For catalogs address Messrs. H. G. McMillan & Sons, Rock Rapids, Iowa.

Shetland Ponies for Sale.

Eight head of Shetland ponies are advertised for sale by Mr. H. W. Littleton, of Harlan, Iowa, on page 27. He also offers a black Shetland stallion for sale and one two-year-old Percheron stallion.

Sam Stewart's Durocs.

A visit to the home of Messrs. Sam Stewart & Sons, at Kennard, Neb., recently, by one of us revealed eighty-five head of spring pigs and, as usual, a lot of older things that they are looking after a bit at this time. The herd of Messrs. Sam Stewart & Sons has been one of the most consistent winners at the Nebraska State Fair in recent years and they have certainly been getting their share of the premiums. Together with Mr. Hosea Wilson they own a half interest in the boar, I Am Perfection Wonder, that won first prize at all the leading fairs last fall. This was the sensational Crimmon Wonder Again boar pig that Mr. W. M. Sells showed at Des Moines and Lincoln last fall. He is doing well in Messrs. Stewart & Sons' hands and may be seen at the fairs this fall. We saw another good boar here—a yearling called Stewart's Sensation, owned by Messrs. Jay Stewart and Wilson. He is a son of Chief Sensation and is out of Cedar Queen. The boys are seriously thinking of starting him in the 2:30 pace this fall, and if they get a good fit on him he may be able to get in under the wire. Messrs. Stewart & Sons have a number of good fall and spring yearling boars on the place and will possibly have some of these with them at the fair this fall. The eighty-five spring pigs are sired by I Am Perfection Wonder, Chief Sensation, Kruger Chief, Chief's Colonel and C. H.'s Special. They desire the men to see them at the Nebraska State Fair this fall.

Col. H. S. Duncan Joins Missouri Auction School Forces.

Col. W. B. Carpenter, president of the Missouri Auction School, Trenton, Mo., has recently secured the services of Col. H. S. Duncan, of Iowa, for each full term of the Missouri Auction School. Colonel Duncan has for two terms given lectures at the school, but, commencing with the term which opens on August 1st, he devotes time to instructing as well as lecturing. Colonel Carpenter is to be congratulated on being able to secure so able an auctioneer as Colonel Duncan as an instructor, as well as a lecturer. It further demonstrates Colonel Carpenter's desire to keep abreast of the times and push the Missouri Auction School to the fore as a college of the first class. In Iowa and Missouri, where Colonel Duncan is best known, he is considered one of the foremost orators and salesmen of the day. His success as a salesman of pure-bred cattle, horses and hogs qualifies him for the position he has accepted with the Missouri Auction School. Students under Colonel Duncan will have the advantage of instruction from a gentleman who is an unqualified success as a business man, one whose advice to the younger auctioneer will be of untold value to him after he has finished at the school and launched out as an auctioneer. Colonel Carpenter is making other preparations for future terms that will add greatly to the value of a term of training such as is given at the Missouri Auction School. See advertisement of the Missouri Auction School, send for one of their beautifully illustrated catalogs and kindly mention this paper when doing so. See page 24 for advertisement.

More Truman Horses.

The manager of Trumans' Pioneer Stud Farm, of Bushnell, Ill., writes under recent date, saying: "We are in receipt of a cablegram from our Mr. J. G. Truman, who is now in France, that he shipped to us per steamship Minneapolis our sixth importation since January 25th. This importation consists entirely of Percheron stallions and mares, the latter being orders given before leaving Bushnell. Our seventh and eighth importations of Shires and Hackneys will arrive in August and September. We have now fifty head of the different breeds which we are getting ready for the Iowa State. Never in the thirty-two years of our business experience has trade kept so brisk for this time of year. Among recent purchasers a prominent one is Mr. George C. Ziebold, of Waterloo, Ill. This gentleman selected the promising young Hackney stallion, Trumans' Dashing King, a grandson of our International champion, Active Forest King. Our old customer, Mr. George Stoll, of Chestnut, Ill., secured the two-year-old Shire colt, Marden Standard by the London champion, Birdsall Menestrel, dam a daughter of the London champion, Bury Victor Chief, a horse which sold for \$12,500. Mr. Stoll should have great results from such a combination of breeding, especially in view of the fact that he was a liberal purchaser of mares at our auction sale of last year. The well-known Shire horse breeders, Messrs. Zwicker & Sons, of Preemption, Ill., took a grand three-year-old Shire stallion to head their stud. This is the third stallion we have sold these gentlemen in the past two years. Messrs. Switzer Bros., of Bucklin, Mo., after having looked around considerably, finally decided to take the four-year-old Percheron stallion, Ganlois. This is one of the greatest high-going Percherons we ever owned. His stable mate, Galbe, a Percheron of the same age, went to Mr. A. O. Dale, of Leon, Iowa. This sale made twenty-six stallions sold by our firm in Decatur county, Iowa, in the past six years. Par-

150 A. J. C. C. 150 CATTLE

IN KINLOCH FARMS' GREATEST SALE
KIRKSVILLE, MO., JUNE 30, '10

125 IMPORTED JERSEY 125 ...COWS AND HEIFERS...

SELECTED PERSONALLY BY DR. STILL

As great a lot as ever left the Island. Not one over five years old. Great milkers with great teats and udders.

VIOLA'S GOLDEN JOLLY

whose daughters sold at an average of \$833 has been used on practically all, giving buyers an opportunity of securing the blood of the world's greatest Jersey bull.

75 COWS IN MILK 75 60 HEIFERS HEAVY IN CALF

Beatrice Stockwell and Financial Countess' Lad, a great pair of herd bulls, Jolly's Royal Sultan by Viola's Golden Jolly and several young bulls will afford a rare opportunity to secure great herd sires. This sale will enable buyers to secure the best lines of breeding. There will be cattle here for every one, your price is ours sale day. In our catalog many animals are illustrated. Send for it, mentioning The Homestead. A. T. Cole representing The Homestead.

KINLOCH FARMS, Kirksville, Mo.

B. C. SETTLES, Palmyra, Mo., Sale Manager.

TOO LATE TO CLASSIFY.

THE POPULARITY OF THE GUERNSEY

has increased more than Ten Fold in last fifteen years and the work of the Guernsey Herd Register shows a growth of

80% during 1909

Full particulars regarding this remarkable breed by addressing
THE AMERICAN GUERNSEY CATTLE CLUB,
Box E Peterboro, N. H.

ties who have not yet purchased stallions for the season will make no mistake by visiting our establishment, as we will show them eighty-five head of the different breeds."

Protection From Lightning.

It is a scientifically proven fact that a proper system of lightning rods affords almost perfect immunity from



damage to farm buildings by lightning. The only question remaining to be discussed is that of what particular system of rod best affords the protection. On this point we refer our readers to the advertisement of the J. A. Scott Company on page 2, which gives many forcible arguments in favor of the rod put out by that company. These are pure copper cables and their value is strongly supported by the system which the company employs of affording absolutely good groundings, fine points, perfect couplings and other features that go to make perfection in work. The study of lightning and of electricity in general is an interesting one. The Scott Company have published a book on this subject which affords so much general information and so much entertaining reading that it ought to be in the hands of every farmer, regardless of whether he has or needs lightning rods. It may be secured free by sending a post card request personally to Mr. J. A. Scott, president, J. A. Scott Company, Dept. P, Detroit, Mich.

TOO LATE TO CLASSIFY.

E-KRUGER'S CHIEF 81867 FOR SALE

Farrowed March 19, 1908; 8 in litter.

Kruger Lad 48581 { Kruger 17933
Orion Lady 70940

Chief La Belle 152364 { Ohio Chief 41419
Nebraska Belle 49206

I am through with the above boar and will sell him. Look at his pedigree and the winners behind him: Kruger Lad, Kruger, Ohio Chief and Nebraska Belle. He is a splendid breeder. Write me about him.

J. E. WEHR, PORTSMOUTH, IOWA

Hampshire Swine

FOR SALE. Four extra choice Hampshire boars of September farrow and twelve equally as good gilts by Kentucky King 1165, champion three state fairs, and Joseph 223. These gilts are bred for September farrow to above boars. My herd won thirty-three prizes Ohio and Kentucky state fairs, including champion sow. Prices right for first-class stock.

C. H. DODDS, Kenton, Ohio.

HEREFORD BULLS DUROC JERSEY Boars

We are offering 20 young bulls of the strictly herd heading kind, sired by our noted herd bulls. Also 25 fall boars sired by the celebrated Carl's Col. Write us or come and see us.

Edmonds, Shade & Co., Kingsley, Ia.

Elliott's HOLSTEINS

WE offer for sale young cows, some A. R. O.; bull calves and bulls of serviceable age, all of A. R. O. breeding. Write for description and prices.

JESSE ELLIOTT - WOODWARD, IOWA.

RED POLLED BULLS AND HEIFERS

I AM offering 10 head of splendid bulls for sale, ranging in age from ten months to four years; 25 head of excellent cows and heifers, all of which are hand milked. Can sell carload if wanted. Address C. A. CRAWFORD - ANTHON, IOWA.

HEREFORD BULLS

TEN young bulls for sale. Good individuals and the best of breeding. For prices and description visit or write to JOHN ECKHARDT - WELLMAN, IOWA.

LIVE STOCK AUCTIONEERS.



121 Students in Attendance at January Term, 1910.

MISSOURI AUCTION SCHOOL LARGEST IN THE WORLD

AUGUST 1, 1910, is opening date at Trenton, Mo., for our next term. Additional instructors, selected from America's leading auctioneers, have been engaged to instruct and lecture during this term. No other profession paying better can be attained at ten times the expense and time, either legal, medical or otherwise, for those who will apply themselves. Our correspondence course is greatly appreciated by those who cannot attend personally. Illustrated catalogs of either course for the asking. W.M. B. CARPENTER, Pres., Trenton, Mo., or Oklahoma City, Okla.

Col. Carey M. Jones

THE President of Jones' National School of Auctioneering is one of America's leading Live Stock Auctioneers. While he gives the School his personal attention and instruction he is only one of fourteen instructors and lecturers of national reputation employed for the coming term of five weeks opening July 25, 1910. Actual practice required at the school before diplomas are given. For catalog and information address

ORVAL A. JONES, Manager,
2856-2858 Washington Blvd., Chicago, Ill.

GEO. B. BUCK

AUCTIONEER AND EXPERT JUDGE.

Have judged at Illinois and Iowa State Fairs. Have sold for the best breeders of the central West the past three years and have them rebokked. Posted on pedigrees and values. Sales made anywhere. Terms \$20 and expenses. I always deliver the goods. Write me for dates at Sunny Hill, Ill.

N. G. Kraschel

HARLAN, IOWA.

Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.

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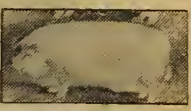
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BY O. & L. 82341, a line bred Col. and Protection boar of show yard quality; dam by Buddy K. IV. and Ambition. A few fall gilts, either open or will breed them. Also have 3 Scotch-topped Double Standard Polled Durham butts for sale. Please mention The Homestead. Address

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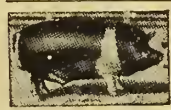


My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

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WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning *The Homestead*. **R. L. BOLLMAN, COAL VALLEY, ILL.**



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MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper.
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I AM now booking orders for spring pigs--male and female--and will begin to ship about June 1st. They are by four different sires and represent the strains with which I won championship on pen of barrows at the International show of 1909.
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WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

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Hampshire Swine

A good lot of March and April pigs for sale, from fashionable families.

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GEO. LIPPERT, MAGNOLIA, ILL.

25 Head of Spring Boars 5 Head of Yearling Boars

All good ones and guaranteed breeders. Prices reasonable.

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SPRING yearling sows bred for June and July farrow; tried sows bred for August and September. A few yearling boars, 50 choice September, 1909, boars and gilts, and boars and gilts of March and April, 1910, farrow, to be delivered at 3 to 5 months old. Blood of P. W. Giant, Hadley, Jumbo and Victor. Foundation stuff or new blood.
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SIXTY head of bred sows averaged \$66.87 at our last sale, supreme evidence of the kind we breed and sell. Our herd is made up of the most noted animals of the type and breed. Spring pigs of either sex by **Big Ex.** (the 1,070-pound son of **Pawnee Chief**), **Superior Look** (a great son of **Grand Look**), and **Chief Price** (the big yearling with a 10-inch bone), a trio of boars with few equals in the corn belt. Write for special prices on small herds not akin.
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THE LARGE TYPE, WITH QUALITY COMBINED. 275 SPRING BOARS and GILTS. Our herd is made up of the most noted animals of the type and breed. Spring pigs of either sex by **Don Joe** by **Royal Duke**, good individuals. Splendid milking strain. Priced reasonable. Also some extra choice fall boars. Address
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I am now offering some splendid fall boars for sale sired by my noted show and breeding boar **Big Victor** and out of my best sows. Address
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OF both sexes. One herd bull and some horned cows bred to **Success 4th**, one of the best bulls of the breed. **W. H. Campbell, Grand River, Ia.**

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Males and Females for Sale
WRITE TODAY.

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They are as good as could be bought on the island. Yearlings and two-year-olds, at from \$200 up.

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Ninety Head in Herd.

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SEND FOR SALE LIST.

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Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from **Adv. R.** cows, daughters of **King Corn A. R.** and **Capt. Robbie A. R. 25**. They are sired by **Glenwood's Stranford 9386**, a son of **Stranford's Princess A. R. 199**, with 725 lbs. fat. He is a half brother to **Dairymaid of Pinhurst**, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale. **Ben Clark & Son, R. 1, Whitewater, Wis.**

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POLLED DURHAMS

OUR choice two-year-old heifers, sired by **Agate's Don Joe** by **Royal Duke**, good individuals. Splendid milking strain. Priced reasonable.
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Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. **Wm. Barrans, Lenox, Iowa.**

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THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.
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A FEW good bulls of herd header build, from 14 to 20 months old; very best of blood lines; good individuals and priced to sell. Write me before buying.
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LARGEST HOLSTEIN AUCTION

EVER held, June 21, 22, 23, 1910. Over 300 head Peaches and Cream, bred direct from the world's champions. For information, watch The Homestead or write R. E. Haeger, Algonquin, Ill.

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Of pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

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HOLSTEINS LAKE MILLS, WIS. 100 HEAD. A few grandsons of Hengerveld De Kol to offer from A. R. O. dams. High grades in carload lots that show quality and breeding. Barn a few rods from C. & N. W. Ry. WM. EVERSON & SONS.

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Cows and heifers any age. Bulls fit for service.

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EIGHTY HEAD IN HERD. WE GUARANTEE OUR STOCK.

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HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfold Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thicket, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa. W. P. Brown, Herdsman.

INVERNESS
ABERDEEN ANGUS

HEADED by the Trojan Erica bull, Equalize 8377. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address, ED. T. DAVIS, IOWA CITY, IOWA.

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125 Reg. Jerseys to select from. Every one a money maker, splendid dairy type and fashionably bred. Write, or come and see this great herd. Females for sale, singly or in car lots; also few choice bulls. H. C. Young, Lincoln, Neb.

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COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want.

RIVERSIDE STOCK YARDS, Algonquin, Ill.

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Registered and high-grade Holsteins, Guernseys and Jerseys, singly or in carload lots. State your wants.

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WANTED 10 thoroughbred heifer calves from A. R. O. herd. The Springdale Stock Ranch, Concordia, Kan.

RED POLLED CATTLE.

RED POLLED BULLS

TWO yearlings and some younger ones. Also offer our herd bull, Advancer, by Profector. Write for description, breeding and prices.

C. W. HUFF, MONDAMIN, IOWA.

CHOICE RED POLLS FOR SALE

SINGLY or in car lots. Best of breeding, good individuals and splendid milkers. These cattle are priced to sell.

Wendell Heil & Sons, Cedar Creek, Neb.

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. W. B. Danforth, Little Cedar, Iowa.

SHORT-HORN CATTLE.

SPECIAL SALE

OF HIGH-CLASS

Short-horn Bulls

Six choice bulls of most fashionable breeding, sired by Signal by Great Scott, Robert Hampton by Imp. Merry Hampton and out of the best of Lavender dams. These bulls will be priced low for quick sale. Write us before buying.

FREMONT WATTS & SON, North Platte, Nebraska.

A FEW CHOICE SCOTCH
SHORT-HORN BULLS For Sale

I. Barr & Son, Davenport, Ia.

GEO. H. WHITE, EMERSON, IOWA, Breeder of High-Class Short-horns.

HEADED by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address, GEO. H. WHITE, EMERSON, IOWA.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

MILKING SHORT-HORNS

YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk or weigh in the milk for the herd. BLACKMER & NELSON, Albert Lea, Minn. Farms 1 and 2 miles from town.

Plain View Short-horns

A FEW good red bulls, some just over a year, healthy and thrifty, but not over fat, at farmers' prices if taken soon. All by good Scotch bulls.

GEORGE A. HANS, NEWTON, IOWA.

A Scotch Herd Header For Sale

DARK red, by Imp. Kinellar Stamp and out of Imp. Lady Belle 7th, 17 months old. Also several younger bulls that will soon be a year old.

T. A. DAVENPORT, BELMONT, IOWA.

Cedar Hill Short-horns

Three good young bulls for sale. Best of breeding and individuality.

IRVIN E. WILSON, Belvidere, Nebraska.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

HIGH-CLASS SHORT-HORN BULLS

EIGHT good Short-horn bulls for sale, 12 to 14 months old. Good colors, good individuals and prices reasonable. Dan Powers, Osages, Neb.

100 REGISTERED
HOLSTEIN-FRIESIANS
AT AUCTION AT
South Omaha, Neb., Tuesday, June 28th

100 HEAD 100



100 HEAD 100

In this sale there are listed about fifty cows and heifers in milk or soon fresh. Twenty-five heifers and heifer calves, three to fifteen months old. Twenty-five bulls and bull calves, a number of which are ready for service. Positively the best lot of cattle ever consigned from Rock Brook Farm. A number of the cows are bred to bulls whose dams have A. R. O. records up to 301 daughters and granddaughters of Dijkstra Beauty Lad, champion bull of 1909. A number of granddaughters of Hengerveld De Kol, Paul Beets De Kol, and others of note. The whole consignment is made up of cattle of the true dairy type—the kind that milk the year round. Showmen, I have a yearling bull and some heifer calves that will be hard to beat. Every animal over six months old is tuberculin tested. Catalogs ready about June 15th, sent only on application.

ROCK BROOK FARM
STATION B - - OMAHA, NEBRASKA.
HENRY C. GLISSMAN, PROP.

SHORT-HORN CATTLE.

MONDAMIN SHORT-HORNS

WE now offer three yearling bulls at prices that will induce men to buy. Two red ones by Valiant Jr., a roan by Gwendoline's Boy. Also some choice younger calves by same sires for sale. Visit or write us. Address, HELD BROS., HINTON, PLYMOUTH COUNTY, IOWA.

SCOTCH
BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.

ELK CREEK
SHORT-HORNS

Five good bulls for sale, sired by Jolly Hampton, Custer Butterfly and Crimson Scot. Good colors and good individuals. Prices right. Auto phone 1902. Address

S. A. Nelson & Sons, Malcolm, Neb.

REGISTERED BULLS
WANTED

We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd headers. Write us immediately. Address

Ilragonier & Son, South Omaha, Neb.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE HINCHARD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

Good Red Short-horn Bulls

A DOZEN Scotch and Scotch-topped bulls, 10 to 24 months old, some good enough for the best herds, others suitable for farmers. Sires Courtier 5th 27599 and Baron Secret 2d 289279. Address

OWENS BROS., - - HOMESTEAD, IOWA.

GOOD RED SHORT-HORN Bulls

FOR SALE. Sired by Knight Commander, he by the great March Knight; also a limited number of choice females. Get my prices before buying.

HENRY P. MCCARTNEY, YORK, NEB.

5 GOOD SHORT-HORN BULLS

Scotch and Scotch-Topped. From good milking dams. Prices reasonable. F. M. Hall, Friend, Neb.

WHITE BROS.
CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

LAWNDALE
SHORT-HORNS

FOR SALE: Six choice Scotch and Scotch-topped bulls from 14 to 24 months old. Good individuals, good colors and best of breeding. Will be priced low for quick sale.

G. T. HAGGARD, HELVEY, NEB.

Wildwood Scotch and Scotch-Topped
SHORT-HORNS

TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Brawith Lad. For description and prices, address

W. W. VAUGHN, - - MARION, IOWA.

GOOD bargains—8 head pure-bred, Scotch topped, 17 head Short-horn bulls for sale; 1 to 2 years old. One high-grade, 3-year-old black Percheron stallion; 1,225 lbs. Good boned fall and spring Duroe and P. C. boars and gilts, large type; best of breeding. R. M. Young, Cook, Johnson County, Neb. Location—5 miles southeast Cook; 10 miles northeast Tecumseh.

SCOTCH and SCOTCH-TOPPED BULLS

I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athlete. Others that are strictly choice. Also several Scotch-topped bulls by Lord Nutmeier. Prices low if taken soon. PERRY O. BROWN, LAMONI, IOWA.

FOR SALE QUICK

A "REAL" herd header, red, "Cricketshank Secret," 22 months old, bred by Chas. C. Norton, son of his noted "Gloster's Favorite." You will buy if you see him. Write us now for particulars.

H. S. & W. B. Duncan, Clearfield, Taylor Co., Ia.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch.

Wm. M. Smith & Sons, West Branch, Iowa.

PUBLIC SALE OF RED POLLED CATTLE

ON FARM TWO MILES FROM
Jamaica, Iowa, Wednesday, June 22, '10

This is an absolute dispersion sale of the entire herd of registered Red Polled cattle until recently owned by Ed. Dosh, of Guthrie Center, Iowa. There are 53 cows and heifers (none over 6 years) and 17 bulls. This includes two herd bulls and a dozen others of serviceable age. All females of suitable age are bred and safe in calf. The older ones are regular breeders, that have been milked and are of proven merit in a dairy capacity. These cattle are of the large type of the breed. They sell right from pasture, and in only fair working form. They are the best money-making cattle for the farmer. For catalog, address

J. C. THOMPSON, JAMAICA, IOWA.

SHORT-HORN CATTLE.

CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Nareissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and Bred to Nareissus King, singly or by carload. You will buy if you see them.

R. J. COX - GRINNELL, IOWA

High-Class Scotch SHORT-HORN Bulls

WE have a number of bulls right around a year old; solid red in color; bloeky, symmetrical, well-finished fellows, with merit enough to entitle them to places at the head of good herds. They are all by Lord Banff Jr. and out of cows of straight Scotch lines of breeding. We want you to see them.

G. A. BONEWELL - GRINNELL, IOWA.

HORSES AND JACKS.



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler Breeders and Importers of PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

DRAFT HORSE HEADQUARTERS GREELEY, IOWA.

DRAFT horse buyers will find at our barns a lot of valuable stallions—Belgians, Percherons and Shires of right age for immediate service. A few good Coachers. Come and see how cheap we sell.

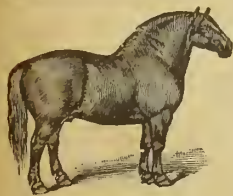
W. A. LANG & CO., GREELEY, IOWA.



To Prospective STALLION and MARE BUYERS

WE landed home April 20th, with eighty head of two-year-old Percheron stallions and mares. Being the first importers in the Perche district, we secured the TOPS at prices no higher than others will have to pay for the CULLS in July and August. If you wish to purchase an extraordinary fine pair of young mares or a stallion, you are invited to inspect this grand lot of young horses. We have fifty young mares on pasture being bred to one of the best horses in America, and fifty young stallions in the barn to select from. Write us your wants, it will cost you but two cents. We will save you hundreds of dollars. Homewood is on the main line of Big Four and Illinois Central Railroads, twenty-three miles south of Chicago.

Suburban trains hourly. Bell telephone, Homewood 204. **S. METZ & SONS, HOMEWOOD, ILL.**



BELGIAN EMPORIUM of AMERICA

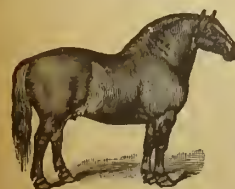
STALLIONS all sold. Can spare a few more mares, your choice from thirty. I have sold over one hundred head this past season, and will return from Belgium, Sept. 1st, with another supply to refill all my barns.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA.

MARES FOR SALE

The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an International winner, and one imported Hackney mare, both with foal. Also one first-class Short-horn bull. Address

**DIVISION OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.**



**FRANK L. STREAM,
Creston, Iowa.**

**FRANK L. STREAM,
Creston, Iowa.**

When writing mention this paper.

Clydesdale Headquarters

McLay Bros., Janesville, Wis. NEW IMPORTATION—18 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine International than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rum (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. **CHAS. IRVINE, ANKENY, IOWA.**

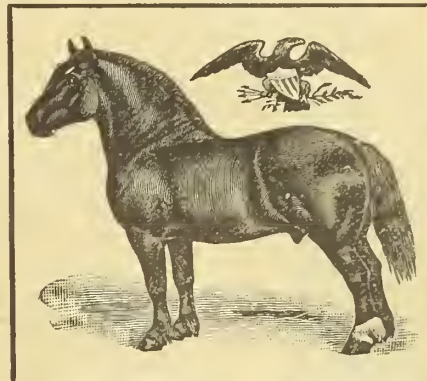
When writing mention this paper.

HORSES AND JACKS.

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

Percherons,
Belgians,
Shires,
German and French
Coachers,
Hackneys.



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

A. B. HOLBERT, Greeley, Ia.

PINE RIDGE PERCHERONS

ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

**L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.**

PERCHERON AND BELGIAN

STALLIONS—IMPORTED AND HOME-BRED—MARES

Carefully selected to get the good, big, rugged kind; all fresh, with plenty of bone and action. All of my horses are well grown and are mostly solid colors. A splendid lot of young stallions and mares now on hand.

O. P. HENDERSHOT - HEBRON, NEBRASKA.

AT LOW PRICES

BELGIANS
PERCHERONS
GERMAN COACHERS
A. R. IVES, DELAVAN, WISCONSIN.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 Jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14½ to 16 hands. Everything guaranteed as represented. Est. 1892.

**J. C. HUCKSTEP, Prop.,
EOLIA, MO. Pike Co.**



CLYDESDALES AND PERCHERONS—Imported and home-bred. A select lot of stallions and some extra choice mares. Prices right. Address R. O. MILLER, Route 1, LUCAS, IOWA.

Ask your neighbor to subscribe for The Homestead.

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS and MARES FOR SALE AT KEOTA.

50 Stallions—35 Mares

We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold, come and see Keiser's Percherons at Keota.

C. O. KEISER, Keota, Ia.

Shetland Ponies for Sale

I AM offering eight head of Shetland ponies for sale at from \$65 to \$125. Also one 5-year-old black Shetland stallion and one 2-year-old Percheron stallion. Address H. W. Littleton, Harlan, Iowa.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. **R. Wilkinson & Sons, Mitchellville, Ia.**

Just
a
plain
business
precaution

I agree
to send you any Galloway Gasoline Engine shown in my new catalog, together with a legal, binding five-year guarantee with the privilege of thirty days' Free Trial Test. Place my engine side by side with any other gasoline engine in the world. Compare it—point for point—the material—workmanship—ease of starting—economy of fuel—or in any other way you like—THEN DECIDE whether you wish to keep it or not. If it doesn't prove the best engine you have ever seen anywhere, regardless of price—if it doesn't save you from 30 to 50 per cent—or if for any other reason you do not wish to keep it, send it back and I will refund every cent you have paid out on it, including freight charges both ways. That's the way I do business—a square deal all around or no sale.

A
post card,
letter, phone
or wire will get
my new FREE
POWER BOOK to you
QUICK—and now's the time

*Make them write it in
the Contract!*

Don't Be Fooled by the cheap quality talk of agents and dealers who go around tooting their horn and incidentally pocketing from 30 to 50 per cent extra profits to pay for the noise.

Make them play fair—if they think they have an engine as good as the Galloway, ask them if they will sell on the same terms, under the same conditions that I do—but be sure and **MAKE THEM WRITE IT IN THE CONTRACT.**

Ask them to send you their engine on 30 days' trial. Tell them you are going to put it alongside of a Galloway and test it from every standpoint—the material, the workmanship, rated horse power, economy of fuel, simplicity, and above all, price. Tell them you are going to keep the one that makes good and return the other without cost to you. If they agree to this, you are pretty sure to get the best engine—but don't forget to **MAKE THEM WRITE IT IN THE CONTRACT.**

I wish that every man about to buy a gasoline engine would try the Galloway under these same conditions. I know what my engine is and what it will do, for it's made right here in Waterloo in my own big engine factories.

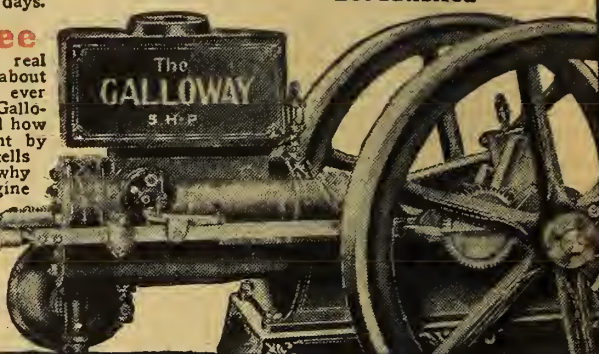
Never was better material or workmanship ever put on an engine. It is simple in construction and easy to operate, and I guarantee to save you from 30 to 50 per cent in cost.

Now, it's up to you to protect yourself, and I have shown you how. Be your own judge and don't decide on any engine until you have had the opportunity of testing it 30 days.

Get My New Free Catalog

Contains more real live information about gasoline engines than any book you ever saw. It illustrates and describes Galloway Engines from 2½ to 22 h. p. and how I save you from 30 to 50 per cent by selling direct from my own factory. It tells how to make more money on the farm, why the Galloway is the only successful engine made and sold DIRECT from factory to farm, and how you can get one on the most liberal selling plans ever heard of. Drop me a postal or letter today.

\$119.50 FOR A GALLOWAY 5 H. P. Engine and your money back if not satisfied



The Wm. Galloway Co.
105 Galloway Station WATERLOO, IOWA

SHORT-HORNS FOR FARMERS

AT AUCTION
—AT OUR FARM NEAR—

**LISCOMB, IOWA,
TUESDAY, JUNE 21**

WE want you to come to our sale, because we know we have cattle that will make money for you just as they have made money for us. A great lot of cows of useful ages, more than half with lusty calves at foot. It is starting material that cannot well be improved upon. Strictly high-class bulls have been used—those of straight Scotch blood lines. Some of these females are of choice Scotch tribes and the remainder carry good top crosses. The bulls are right, too; fashionable breeding and true merit of herd-heading kind. They are in condition of thrift and ready for immediate service. Several Scotch bulls (one of them we have used as a herd bull) are good enough for anybody. Get a catalog and see all about it.

JESSE BINFORD & SONS, LISCOMB, IA.

Col. Geo. P. Bellows, Auctioneer.

SIXTEENTH PUBLIC SALE OF LAKEWOOD PERCHERONS

TO BE HELD AT THE

**Stock Yards, Sioux City, Iowa
TUESDAY, JUNE 28, 1910**

50—HEAD—50

Consisting of 5 two-year-old stallions, 10 yearling stallions, 20 bred mares and 15 yearling fillies. The two-year-old stallions are by the **WORLD'S FAMOUS CALYPSO**, Champion Olbert and



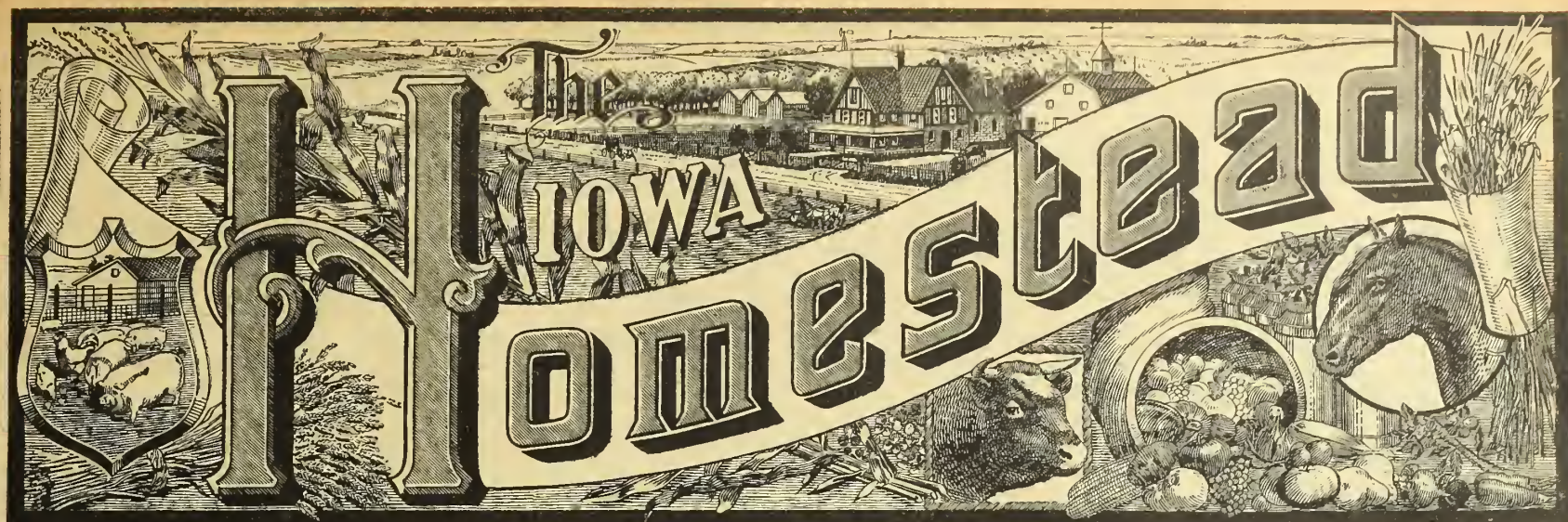
CALYPSO.

other great sires, and are a high-class lot. The bred mares range in age from 2 to 7 years and include a number by **CALYPSO** that are bred to the great young show horse, **INSCRIT**, that won first prize at the last International. Nearly all of the other mares are bred to **CALYPSO**. The yearlings are by **CALYPSO**, the great breeding stallion, **Col-lard**, and other well-known sires. Anyone wanting high-class mares and fillies, or a choice young stallion, should not fail

to attend this sale, as there will be a number included that will be good enough to show at the fall fairs.

Cols. Woods, Jones, McGuire and Murphy, auctioneers.

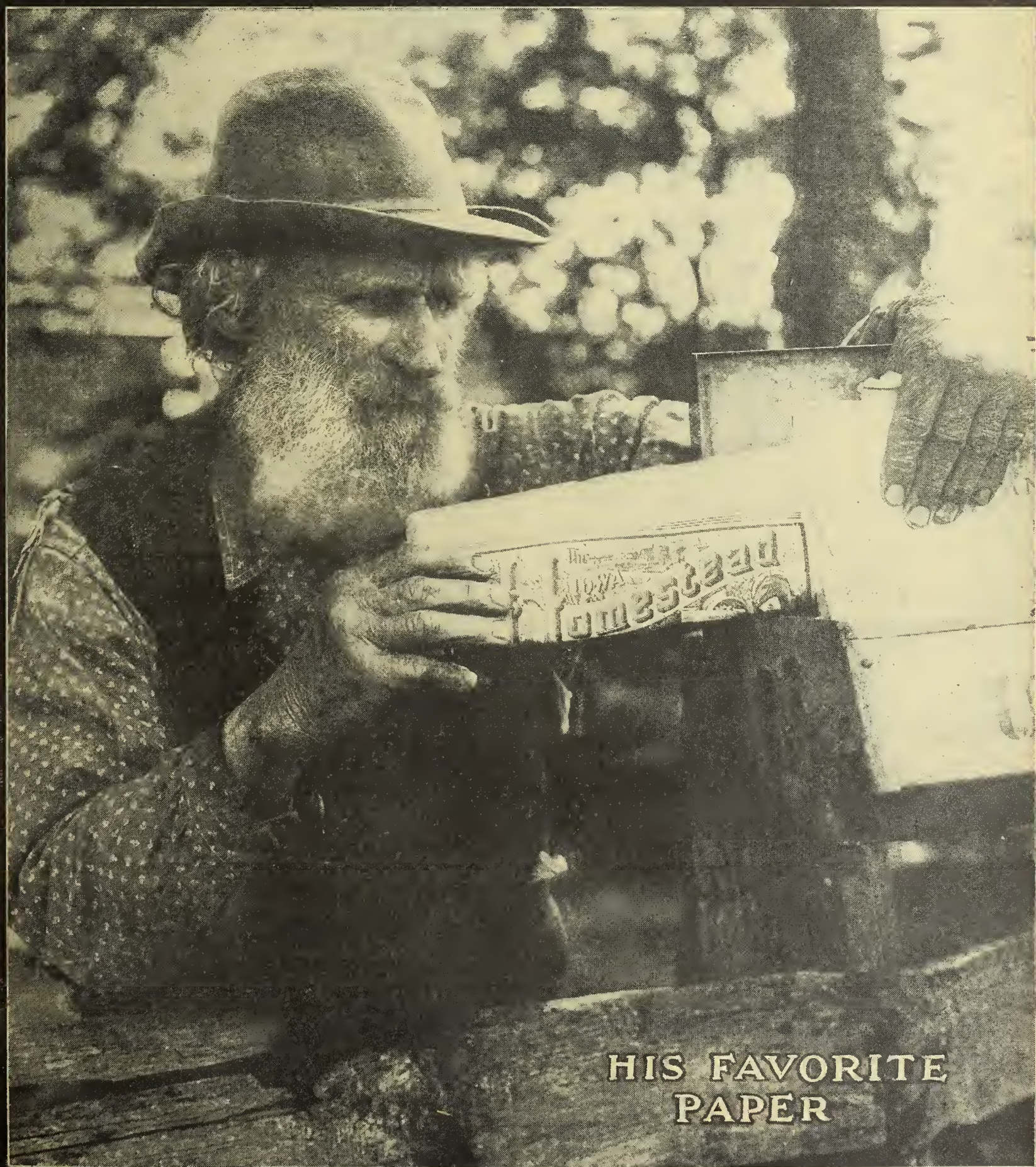
H. G. McMILLAN & SONS
LAKEWOOD FARM, ROCK RAPIDS, IOWA.



VOL. LV. NO. 25

DES MOINES, IOWA, JUNE 23, 1910

WHOLE NO. 2750



HIS FAVORITE
PAPER

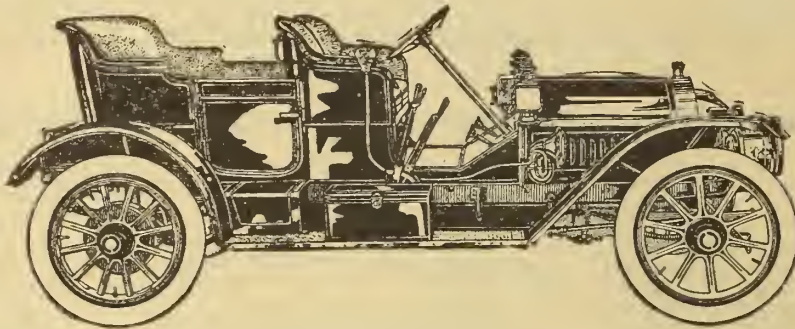
\$4,000 Worth of Automobile for \$2,500 IN THE MORA LIGHT FOUR A Special Proposition---If You Are Interested!

In certain sections of the country, we need some one to show the MORA "LIGHT FOUR"—which undoubtedly stands at the head of thoroughly American-built automobiles, even though it sells for a couple of thousand dollars less than other cars in its class—so called.

Now, in order to have someone in your vicinity with a MORA "LIGHT FOUR," who could show it to his friends and their friends, we stand ready to make you a very interesting proposition. You won't have to be an expert to demonstrate the MORA—for it demonstrates itself. Its every movement is a demonstration for Power, Speed, Efficiency, Silence, Performance, Comfort, Safety. That's what motor buyers look for, but do not get, unless they buy a MORA.

Mora Cars are Mora Built—Through and Through

There isn't a single bit of a MORA but what is constructed in the Mora factory. Its efficiency is the result of a carefully worked-out design—with every part integral to each other—so as to minimize weaknesses and strains. Taken as a whole, it is a masterpiece of scientific construction and a splendid example of modern motor building.



Sufficient Horse Power for All Roads and Countries

We've never seen a MORA car that would not go wherever its owner wanted it to—uphill and down, across country or 'cross lots. We've seen a MORA pull through a plowed field at a slow pace and at a fast one—direct on high gear. Many cars would fall apart under such strain. But MORAS are all built for just such performances—that the owner may go where he wishes.

MORA ENGINES

Have 4 1-2 inch by 5 1-8 inch cylinders—which means considerably over FORTY horsepower. Water cooled, of course, and licensed under the Selden Patent. Entire base is constructed of aluminum—taking the place of the ordinary mud pan. Cooling fan operates by gears instead of belt—no leather straps to wear and break. Two distinct systems of ignition. Highest priced carburetor in the world, insuring perfect performance at every speed, and economic use of gasoline.

Write today for a MORA catalog and full information as to the MORA proposition for your vicinity. Somebody is going to have a MORA near where you are. It may as well be yourself as someone else.

444 Mora Place,

Mora Company, Newark, N. Y.

Mora
Coupon

MoraCo.
Newark, N. Y.

Without any obligation on my part, other than to give your proposition consideration please mail me your catalog and full particulars of what you have to offer me.

GALLOWAY SAVES YOU \$50 to \$300

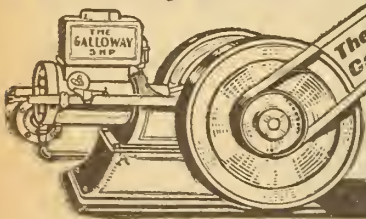
SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horse-power from a real engine factory. Save dealer, jobber and catalogue house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. I sell them direct to you for less money than some factories can make them at actual shop cost.

All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities).

Anybody can afford and might just as well have a high-grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for, in carload lots, for spot cash.

An engine that is made so good in the factory that I will send it out anywhere in the U. S. without an expert to any inexperienced users, on 30 days' free trial, to test against any engine made of similar horse-power that sells for twice as much, and let him be the judge. Sell your poorest horse and buy a

5-H.-P. Only \$119.50



Get Galloway's Biggest and Best FREE GASOLINE BOOK

Write today for my beautiful new 50-page Engine Book in four colors, nothing like it ever printed before, full of valuable information, showing how I make them and how you can make more money with a gasoline engine on the farm. Write me—

Wm. Galloway, Pres., Wm. Galloway Co.
105 Galloway Station, Waterloo, Iowa

Everything for the farm BLOCK MACHINE \$10



Build your own houses, barns, silos, water troughs, supply tanks, well curbing, drain and sewer tile and posts of CONCRETE. It is the ideal building material—lasts forever.

CONCRETE MACHINERY BARGAINS

Silo Machines	\$10.00
Tile Moulds	6.25
Well Curbing Moulds	4.50
Brick Machines	18.50
Water Trough Moulds	4.50
Hand Mixers	22.00
Gasoline Engines	40.00

SEND FOR BIG 1910 WHOLESALE CATALOG and FREE SILO PLANS. Describes everything for farm use. This is your opportunity to buy concrete machinery at wholesale prices and make your own improvements at little cost. Northwestern Steel & Iron Works Box 816 EAU CLAIRE, WIS.

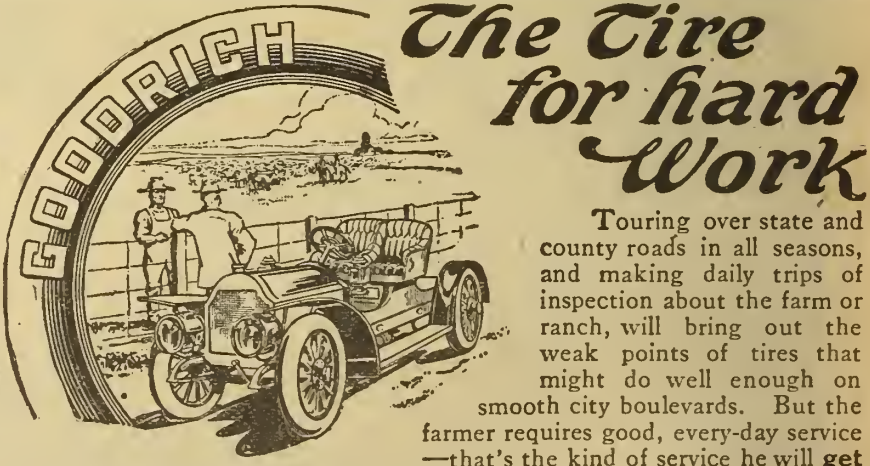
The Potato Digger Dowden



Simple, strong, always in order. Works in all soils, all depths, hillside and level. No cutting and none missed. Potatoes always clean, lying on top of ground. Works well in heavy tops.

DOWDEN MFG. COMPANY
1011 Elm Street, Prairie City, Ia., U. S. A.

Send for Free Catalogue



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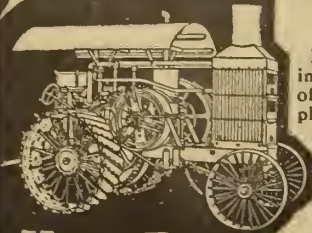
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HART PARR
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HART-PARR CO. 228 LAWLER STREET
CHARLES CITY, IOWA

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JUNE 23, 1910.

The Shallow Cultivation of Corn

WE CULTIVATE growing corn to destroy weeds and to conserve moisture. It has been shown by careful experiment that shallow cultivation will accomplish these ends quite certainly if done frequently, and that there are good reasons against tearing up the soil deeply between corn rows during the growing season. This cultivation is not for the purpose of preparing the seed bed. That work has been done before the corn was planted and it is not necessary to do it with a cultivator.

Weeds are formidable enemies of crops, and must be fought from start to finish, but the corn roots are the natural channels by which all the plant food reaches the stalk and these roots must not be molested if the best possible stand is to be had.

A study of the root system of maize has shown that the corn roots do not strike downward into the soil early in the season, but they grow rapidly outward and near the surface. It was seen that the plants studied in particular made such a growth outward in thirty days from planting that the roots of plants three feet apart had met between the rows, about four inches below the surface of the

By F. B. Swingle

ground. At six inches from the hills the roots were only two or three inches below the surface. This was at the time of the second cultivation, and it is easily seen that, even at this early stage, deep, close cultivation destroys many roots. Later in the season many roots strike downward, and other lateral roots spread horizontally, so that fifty or sixty days after planting time the corn roots almost completely netted the soil between the plants to a depth of two feet. This is the time when weeds will not be seen in a well-regulated field, having been conquered at earlier stages of the game. If big weeds have to be shoveled out of the corn after sixty days, it is certain that the deep plowing required to uproot them will do great damage to the corn crop. Many farm boys and farm hands are somewhat ignorant of the disastrous effects of deep cultivation late in the season. The writer has wrought havoc in the corn field, while a boy in his early "teens," by too deep and too close cultivation of corn well advanced in the season. He was shown the effects of his thought-

lessness too late to remedy the evil. Fathers will do well to instruct the boys on this point before the damage is inflicted.

The last cultivations, during the drier part of the summer, serve to keep a crust from forming, and conserves moisture by means of the dust blanket formed, which does not allow the soil water to evaporate rapidly.

The stirring of the soil at the surface to keep it pulverized is the main business of the cultivator at this time. The practice of some farmers who scrape all the loose, fine, top soil from between the rows and form a great ridge about the plants cannot be supported, and is not practiced today as it used to be. A slight ridge is formed along the row, but enough of the fine soil is kept between the rows so that the ground will not bake and crack open. The spread of the dust mulch invariably means the holding of moisture through the dry weeks. With the passing of seasons, the tendency has been toward smaller cultivator shovels, until they are now more like teeth than shovels, and they do more satisfactory work. During the first cultivation, the use of fenders will save much time and allow a closer cultivation than is possible without them.

Twenty-eight Years of Silo Experience

TWENTY-EIGHT years ago the silo was a thing almost entirely unknown to the average farmer. The first trace I found of the silo and of ensilage was thirty-four or thirty-five years ago. In one of my farm papers, or a farm edition of some paper, the statement was made that a Frenchman had found a new way of preserving green crops by putting them into an air-tight receptacle where they would keep unchanged.

This was very interesting news to me, more so than the discovery of a new gold field in Africa or Australia would have been. It set me to thinking what it would mean to a dairyman to be able to feed his cows summer rations in the winter. Well, I kept a sharp lookout for anything relative to the matter and soon learned more about it and got familiar with the words silo and ensilage. I also learned that they had built a silo at the experiment station at Madison and were experimenting with the new feed, so I started for Madison to learn what they knew about the silo.

I found the silo all right, but what they knew about it was very little. At least, the contents of the silo were not very inviting, not enough so to induce a fellow to build a silo at once. The silage had an offensive smell and all kinds of colors, ranging from a dark blue to a greenish purple.

Professor Henry then informed me that a Chicago doctor settled on a farm near Oconomowoc had built a silo and was feeding silage, so I went to call on the doctor. He was a splendid old gentleman and very glad to meet me and give me all the information he had on ensilage. He was full of enthusiasm about the new feed, more so than I.

The silage looked a good deal better than that at Madison, but it was as full of acid and smelled as sour as the best vinegar pickle. Notwithstanding the unfavorable impression I had gotten from the silage I had seen so far, I made up my mind to build a silo anyway, or really four silos in one.

The silos I built were square, as we had not gotten the idea of the round silo in those days. They were built of solid rock and cement. At the first filling I followed the instructions and rules laid down by the Frenchman, namely, to cut the corn in as green and succulent a condition as possible, and do the filling

By Charles Linse

as quickly as possible, so, in order to observe these two fundamental rules, I cut the corn when fairly in tassel and setting ears, and hired a whole thrashing crew to do the filling.

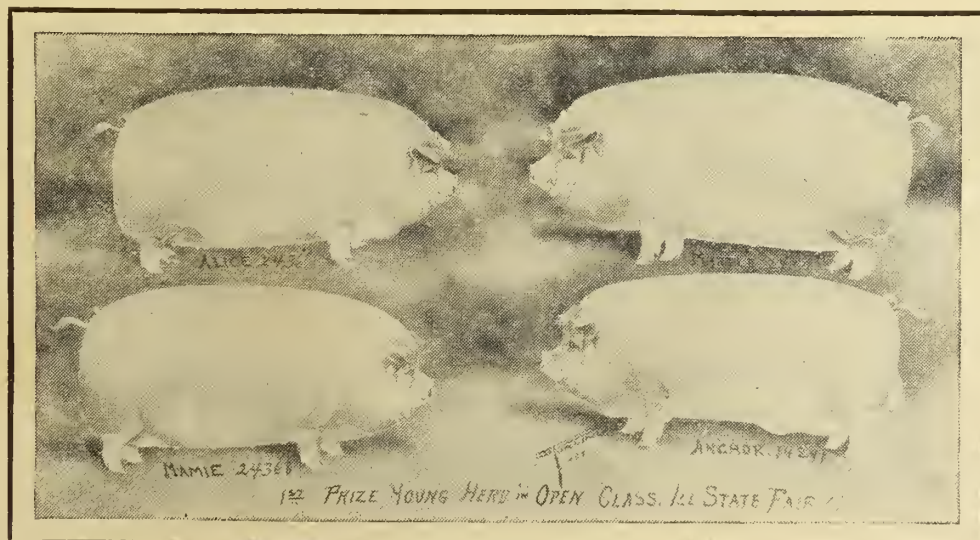
We filled two of the silos in about two days and a half. This ended the filling, as the corn intended for the silo was gone. This was the first object lesson to me, to learn the capacity of a silo. To complete the job, we covered the silage with a double layer of boards and planks and finally put about one and one-half cords of rock on top of each silo for weight, all according to the instructions given by my Frenchman.

And now for the results. When I opened one of my silos, about the first of December, I found to my surprise the silage as green as grass, even the very top below the cover, not a blade discolored, but otherwise it was in the same condition as that of my friend, the doctor, that is, it was as sour as a vinegar pickle. When I started feeding it, the cows refused to eat it, but when I told my good bossies, "You must; I don't want you to make me the laughing stock of the whole neighborhood," they began to think more favorably of the matter and ate the stuff pretty well, and they did very well on it. But this change in the attitude of my cows toward the new feed was certainly not due to the quality of the silage. At

that time I was careful not to let out the secret to anybody, but I will to you—the fact is, I mixed the silage with so much corn meal, bran and oil meal that the good cows were compelled to eat it. Well, if I had not invested a lot of money in those silos and feared lest I should be laughed at by my neighbors, these results would surely have ended my silo operations, but the next year's filling fortunately gave much better results, as we already had gained a gleam of knowledge where we had made mistakes, and from year to year we learned more and more how to improve on the silage.

To accomplish good results in doing a thing, we must understand the nature of the thing. Silage has often been compared with canned fruit. This is hardly a correct comparison. To preserve any putrescible matter, the oxygen, the promoter of all fermentation and decomposition, has to be driven out. In preserving fruit, the oxygen is driven out of the can by artificial heat, by setting the can in boiling water. If it is then sealed air tight, so as to exclude the oxygen, its contents will remain unchanged. They will stay sweet, as we term it. Not so with the silage. Sweet silage is a misleading term, as there is no sweet silage in this sense of the word.

Now, the method of preserving fruit cannot be followed in making silage. Another element must help us drive out the oxygen, and this is carbonic acid, a gas much heavier than the oxygen and therefore capable of forcing out the lighter gas. So, in order to have so-called sweet silage, we must promote the formation of carbonic acid. Carbonic acid in silage can be formed only through heat; it is a heating process. In order to develop the proper heat, the corn must be in the proper condition, namely, not too dry, nor too wet. We know that a pile of straw, for example, when thoroughly saturated with water, will not heat at all. Immature corn, containing an excess of moisture, will not heat sufficiently. It is not the immature corn itself that produces the sour silage. The excessive moisture in the corn slows up the heating process, thus retarding the formation of carbonic acid gas and the result is sour silage. Let a part of the moisture in the corn escape and your immature corn



A CHESTER WHITE SHOW HERD.

The engraving which appears herewith shows a first-prize young herd of Chester White hogs as shown by Mr. D. H. Lewis of Geneseo, Ill. These hogs were not only winners of first in class at the Illinois State Fair last year, but they were also individually prize winners at a number of the best state fairs. Mr. Lewis advises us that he has a lot of extra good spring pigs nearly ready for shipment. The advertisement will be found on page 25.

(Continued on page 6.)

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

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A NEW METHOD OF PLANTING CORN.

For some reason or other the farmers of the great central West have never taken kindly to the corn "experimenting" that has been carried on by the United States Department of Agriculture. Prof. C. P. Hartley, who is in charge of the corn investigations, has in a few instances been accused of advocating impracticable theories, and as a matter of fact the leaders in the work of corn improvement have not paid much attention to his investigations up to the present time. This is not equivalent to saying that Professor Hartley's work is valueless. Indeed, there is every reason to believe that the division of the department over which he presides will in the end advance the corn-growing interests of the great central West.

But our concern at the present time is with a bulletin recently written by this expert, in which he sets forth the advantages of a new method of planting corn, known as the "kernel-spaced" checking method. This plan is supposed to combine the advantages of both the drilling and checking methods, and to overcome their disadvantages. The feature of this system is that instead of the kernels being dropped close together as they are with our present checking system, they are placed by a special planting device at the corner of a five-inch square. The objection raised to the present checking method is that the roots and stalks are so crowded together that one plant generally monopolizes the hill, thus causing stunted stalks which in turn produce nubbins. It is true that this crowding might be overcome by drilling, but on the other hand, the drilling of corn prevents cross-cultivation, which is almost a necessity on land that is foul with weeds.

A comparison between the kernel-spaced method and the checking system resulted in the former yielding three bushels per acre more than the latter, in an extensive series of experiments. Commenting on the results of the experiments so far conducted, and on the practicability of the method, Professor Hartley says:

Under the different conditions of climate and soil and with different varieties of corn, each test has shown that kernel spacing of checked corn increases the yield. The kernels were placed only five inches apart in the hills. A distance of eight or ten inches may increase the yield still more, and such hills can be readily cultivated both ways providing the checking is accurately done. Checkrows can be manufactured with two shoes for each corn row and a separate dropping tube for each kernel of a hill. They can be made adjustable, so that the number of kernels of a hill can be suited to the fertility of the soil and the variety of corn planted.

Proper distances for spacing the kernels within the hill will have to be determined for large and small growing varieties. The three varieties tested ranged from medium to very tall, each being adapted to the locality in which it was tested. All produced better by spacing the kernels of each hill five inches apart than by the customary method of dropping them close together in the hill.

In addition to the twenty-five tests of rows growing side by side in which one row was kernel-spaced and the adjacent row checked by the usual method, there were at each locality two adjacent plots, one kernel-spaced checked and the other checked by the usual method. At two of the localities the

yield of the kernel-spaced plots exceeded that of those planted by the usual method to about the same extent as in the alternate-row test. At McLean, Va., the plots produced equally well, but the alternate-row plantings gave an increase of 11 per cent in yield due to kernel spacing, bringing the average increase for the two methods of testing to practically 5 per cent.

We admit that a valuable principle might be involved in this plan of placing the kernels a few inches apart rather than to drop them in the hill in close proximity to one another. This system might work, but when Professor Hartley offers the conjecture that "a distance of eight or ten inches may increase the yield still more," he immediately shows to the experienced corn grower that he must not be followed blindly because such corn could be intended only for greenhouse culture rather than for regular field conditions. To place kernels in a single hill from eight to ten inches apart would create a condition where it would be absolutely impossible to do good work with a corn plow. It is difficult for the average man to do a good job of corn cultivating even when the kernels are all planted together, but imagine what a sight a cornfield would be after cultivation if in every hill four kernels were placed at the corner of a square eight or ten inches across. Add to this the percentage of error that usually creeps into every checked field and you will have a space from twelve to fifteen inches wide that cannot be touched in cultivating the second and fourth times.

We believe that corn growers in general would like to hear from Professor Hartley after he has conducted an extensive series of experiments in testing out this method, where fields of twenty or forty acres are used in the test. We are not interested in the possibilities of a little patch tended with a hoe, but we are all interested in finding out the best plan for getting a big yield under field conditions.

EDISON TO AID FARMER.

Thomas A. Edison has written a magazine article in which he calls attention to the fact that electricity is the only thing which has become any cheaper in the last ten years. Mr. Edison believes, moreover, that the uses of electricity are simply in their infancy. He states that he is ashamed of the number of things around "my house and shops that are done by animals (human beings, I mean) and ought to be done by a motor without any sense of fatigue or pain." He pledges himself to use his marvelous inventive ability to make electricity do all these chores in the near future.

Mr. Edison's article is of interest to the farmer because he believes that notwithstanding the fact that electricity has come to the aid of the farmer in large measure already merely a beginning has been made. He contends that there is absolutely no reason why horses should be allowed within city limits and argues that they are even unnecessary in the country. "The worst use of money is to make a fine thoroughfare and then turn it over to horses," says Mr. Edison, and argues for the adoption of automobiles for all transportation and traffic. According to his prediction the time is not far distant when all manner of farm work in which horses are now used will be done by motor power. This will have an appreciable effect on the cost of production, but Mr. Edison does not stop with this. He believes that electricity will ultimately result in dispensing with the middleman and the retailer altogether. A few electro-magnets controlling chutes and hoppers and the work of distributing produce from the farm, via the interurban and electrified steam railroad, to the consumer will be accomplished. Mr. Edison even talks of a vending machine which will deliver specific quantities of supplies as paid for on the spot and argues that there is no more need for the department store than for the commission man. Butcher's meat is about the only thing he does not see where electricity enters in, notwithstanding the fact that thousands of motors are now in use running sausage machines, for example. Mr. Edison is a vegetarian, however, and declares that he would rather help the people to eat less meat than more, adding, "the death rate and sickness of the population of the coun-

try could be reduced several per cent in the ratio of abstinence from animal food."

Mr. Edison is well on in years, but is still in splendid health and proposes, Providence willing, to continue his marvelous inventions to the end, that human work may be simplified and made easier. He believes that the high cost of living should not be laid upon the farmer, but upon the many men through whose hands the farmer's produce passes before it reaches the consumer, and he believes that electricity is destined to dispense with these middlemen and thus solve the leading economic problem of the day. In the meantime he proposes to devote himself to inventing new labor-saving appliances to make crop production easier and more certain.

WHERE SPRING PLOWING WAS DISKED.

On a given piece of ground we believe that it is possible to increase the yield of corn 25 per cent simply as a result of sensible cultural methods. This not only applies to the care of the crop during the growing season, but also the preparation of the soil before planting. We have been impressed by this fact very strongly this year by the great difference in the present condition of the soil where land was spring plowed and afterwards double-disked before planting, and in the other case where it was spring plowed and only harrowed.

These two conditions existed in a forty-acre field the first half of which was plowed sufficiently early so that the weeds started and thus necessitated disking. The other half was plowed later and it was thought that the harrow would bring the seed bed into splendid condition. As a matter of fact it was harrowed four times before planting the corn. Of course the season isn't half over yet and we cannot see just what the outcome will be, but as a matter of fact there is a very great difference in the condition of the crop on these two twenties at the present time.

The land that was disked is much more friable and it was possible to cultivate it the first time almost half as fast again as was the case in the part that was not disked. A two-horse cultivator could be put over five or six acres in a day without covering scarcely a hill and without tearing any of the corn out. On the other hand, three acres were a fairly good day's work on the ground that was not disked and even then it was impossible to keep the cultivators from tearing some of the corn out and otherwise doing more or less general destruction.

Our theory of the matter is simply this: That it surely pays to do a great deal of pulverizing after the soil is plowed in the spring so as to bring about a close connection between the furrow slice and the lower soil. The disk cuts the clods, slices the old corn stubs and in every way prepares the ground so that the cultivators do the least possible amount of damage, and we are prepared to believe that land prepared in this way will yield considerably more than it will if simply plowed in the spring, harrowed two or three times and then planted.

STUDENTS RETURN TO FARM.

That a college education does not necessarily educate the farm boy away from the farm is once more proved by the report issued by the officers of the Iowa State College of Agriculture concerning the future plans of the 1910 graduating class of the animal husbandry department. Of the thirty-eight graduates, thirty-three will return to the farm and carry on the active work thereof, while four will pursue higher educational work and only one will stay in the city, this one to accept a position on an agricultural newspaper. The farm is considerably the winner, inasmuch as of the thirty-eight graduates nine came originally from the city and now join the twenty-four native-born farm boys in taking up farm work as their life's vocation.

The fact that these thirty-three young agricultural college graduates are going to the farm is all the more notable by reason of the fact that the

college authorities have been asked to fill sixteen positions to teach agriculture in high schools and secondary colleges, at salaries ranging from \$1,000 to \$1,200 per year. Not a single graduate could be induced to take one of these positions. Twelve first-class college positions, with salaries ranging from \$1,000 to \$2,000 a year, were at the disposal of the college, but only four of this year's graduates accepted.

During the past nine years more than 80 per cent of the graduates of the animal husbandry department of the Iowa State College of Agriculture have returned to the farms. This is very gratifying, inasmuch as it was the underlying principle in establishing these land-grant agricultural colleges to fit the young men for actual, practical farm work rather than to educate them to teach or to carry on any city work. The agricultural colleges all over the country are meeting the requirements grandly. The work is practical, is appealing to the sons and daughters of the farmers of the states and is fitting these young men and young women for life work on the farm, which must in the near future materially increase not only the profits of the work, but the standard of living and the material comforts as well.

BUTTERMILK FOR HOGS.

A subscriber from Afton, Iowa, sends the following communication:

I would like if you would give a little advice through the columns of your paper on the subject of feeding buttermilk to pigs. Do you think they can stand buttermilk three times a day, and what is the best way to give it? Do you think it can be made to take the place of shorts and oil meal?

In answering this inquiry we are not able to give the results of much scientific investigation conducted along this line, as the experiment stations seem to have in a large measure passed the subject up. Professor Henry makes the claim that when buttermilk is not diluted its feeding value is practically equivalent to that of skim milk, and skim milk has a feeding value of about thirty cents per 100 pounds when corn is worth a cent a pound. It has been determined that milk has this value when it is fed in the proportion of not more than three pounds of skim milk to one pound of meal. When fed in this proportion, namely, three pounds of skim milk to one pound of meal, it was found that 327 pounds of milk was equivalent to 100 pounds of corn meal. Experiments conducted abroad indicate a lower feeding value, and one instance is cited where six pounds of skim milk had the same feeding value as one pound of grain.

It cannot be denied that a great many persons condemn the use of both skim milk and buttermilk for pigs, but as a matter of fact either one can be utilized as economical meat makers if sensible precautions are taken. We would not advise feeding buttermilk three times a day, nor is it always advisable to give pigs all the buttermilk they will drink. Where considerable corn is fed a very good way to use buttermilk is to soak the corn in it for a period of twelve or possibly twenty-four hours. This is an ideal way to get hogs accustomed to the use of either milk or buttermilk. Care should be taken to see that the barrel is cleaned out at the end of twenty-four hours, because souring can go on to that point where it amounts to the same thing as putrefaction.

Ordinarily the number of farmers who have access to buttermilk is relatively small, because buttermilk cannot be distributed very far on account of the expense of hauling. If it can be purchased, however, at a cost ranging from ten to twenty-five cents per 100 pounds, economical gains can be made from its use, but care should be taken to see that it is not thinned very much by the addition of water. We have known more than one man who became thoroughly disgusted with the practice of using buttermilk simply because he did not receive the pure product, as all the washings of the churn were dumped into the buttermilk tank. It is scarcely necessary to add that the greatest pains should be taken in starting pigs on either milk or buttermilk, because until the pigs are used to it gases are apt to

be generated in the stomach that lead to a very serious condition of unthrift.

Buttermilk may be used as a drink for pigs, but we prefer the plan of mixing it with mill feed or ground grain to be used in the form of slop.

CONCRETE CORNER POSTS.

Two factors are influencing the use of concrete as a material from which to build fence posts—the scarcity and high price of good timber posts and the almost unlimited life of concrete posts. Not a few men who live in timbered sections where good cedar posts are most available, insist upon building concrete corner posts. Mr. Laurens E. Scott, of Stanley, Wis., is one of the advocates of this type of a post. At the farmers' institute during the past winter he advised the farmers to build their corner posts upon this plan:

Concrete line posts of various styles are today being successfully used by many. Good line posts are necessary, but the corner posts are even of more importance. The line post may be easily replaced, but if corner posts are racked the whole fence is slackened and in poor condition. Good corner posts may be made in the following manner: Dig a fourteen-inch square hole five feet deep with trenches on the outer sides six inches wide and three feet long extending from the surface down into the ground at an angle of 45 degrees, thereby making the trench wider at the lower end. Lay in a couple of three-eighths-inch rods within an inch of the bottom of the trench. Dig out a little at the bottom of the hole on the outer sides for anchorage. Put in a couple of rods standing vertically near the outer corner of what is to be the post. To save material we put a green sapling in the center of this hole and fill about it with concrete, putting a box of boards above ground to serve as a form. If the sapling ever rots we simply will have a hollow post remaining. As this is a corner post we simply fasten the wires by wrapping them entirely around it. This post is rooted like a tree and no strain of the wires will ever move it a fraction of an inch. It looks better and is better than any braced above ground. A post may be made with even less material leaving out the sapling and making the hole smaller. One eight inches square and nine feet long with braces, if made solid, would contain but six cubic feet of concrete. For the smaller post I would suggest that in soft ground a larger face can be secured by cutting out the surface foot of earth on each side of the post before filling in the concrete. If hooks or five-eighths-inch iron rods are properly bent and inserted in the concrete at the time of making a hinge may be made to swing the gate.

Much depends upon how the corner or brace posts are set. If these are properly anchored and the wire is securely attached to them, the fence will sag but little and under ordinary usage give but little annoyance. The line posts are simply put in to hold the fencing in place and practically none of the stress should be thrown upon them.

THOSE TROUBLESOME CORN-STALKS.

A Missouri subscriber sends the following communication:

Right in the midst of the corn cultivation season I am going to take time to tell you my troubles and I venture to say that I will have the sympathy of a great many of your readers. It is all over a blunder that I made this spring when I plowed under fifty acres of old cornstalks. I have always made a practice of breaking my stalks and burning them before putting any work on the surface in the spring. This year the old stalks seemed to be much more rotten than usual, so I broke them down with a harrow and afterwards disked the field both ways. It looked as though the stalks were all cut to pieces, and certainly they were well plowed under because there was hardly anything showing on the surface after the plowing was done. I double disked the plowed land and harrowed it twice before planting and the seed bed really seemed to be in ideal condition. The stalks did not obstruct in the least at planting time and everything went well until I started the cultivators. I consider myself quite an expert in handling a two-row corn cultivator and started in with the expectation of getting over at least ten acres a day. I found that the stalks were so troublesome that I had to go back to the single plow, and even with that I couldn't get over more than three acres a day and do anything like good work. I have a larger acreage than can be handled with the single-row cultivators and yet I am up against the proposition of going through the season with these slow-going plows. I wonder how many of your readers are having the same experience that I am having. I believe I would never again plow under cornstalks even if I thought that every stalk was made up of elements of fertility, because I know that the labor of caring for the corn the following

year will pull out and uproot a great many of the hills on account of the presence of the old dead stalks. Theorists may advocate the advantage of keeping humus in the soil until doomsday, but if I have to keep my supply up by plowing under cornstalks I promise you that I will fall out by the way and find some other method of maintaining the productiveness of the soil.

We have never been a very ardent advocate of the practice of plowing under cornstalks, for the simple reason that our experience has in a measure coincided with the experience of this Missouri subscriber. It is a fact, however, that the regulation cornstalk cutter will do much better work in cutting the stalks into short lengths than will the disk, so that as a general proposition it is not advisable to even double-disk dead stalks and afterwards plow them under.

We have not worried ourselves a great deal over this problem, because it is our opinion that the time will soon come when nearly all the corn fodder grown in the central West will be fed, and in that case there will be no stalks left in the field to bother the cultivators. The silo is rapidly increasing in popularity and well it might, because it almost multiplies by two the amount of food value obtained from an acre of corn. Those who do not have silos will more and more cut and shock their fodder and feed it whole on their pastures or in the yards, or have it shredded and fed out in that way. But until the corn crop is handled according to the method whereby the fodder is used, we cannot find it in our hearts to condemn the man who adopts the seemingly wasteful plan of burning the stalks.

PLANTING FIVE-YEAR-OLD CORN

Our attention has recently been called to an instance where five-year-old seed corn was used this spring for planting, resulting in practically a perfect stand. This seed gave a germination test of 94 per cent and as said before, under ordinary field conditions a satisfactory stand resulted from its use. It is not enough, however, to say that five-year-old corn was still vital for the reason that the most important phase of the subject has not yet been mentioned. We refer to the manner in which this corn was kept. Possibly most corn growers will know before they are told that this seed was never exposed to a freezing temperature. This was exactly the condition. It was picked five years ago and stored in a furnace-heated building where the temperature possibly never reached as low as 50 degrees.

It may be difficult to make a practical application of the knowledge relating to the germinating quality of five-year-old seed, because few men would knowingly plant seed that was that old. It does show, however, that on a favorable year it might be entirely practicable to keep over a supply of seed corn that would be large enough to plant two years in succession so that in case conditions were unfavorable the second year there still would be enough seed to answer the purpose. Be it remembered, however, that the chief and most important factor is that the seed must be kept where freezing cannot take place. This means that it must be picked before the periods of frost in the fall, well dried out afterwards, and then stored where it cannot be affected by either moisture or cold.

REAL COUNTRY SCHOOLS.

The department of agricultural extension of the Iowa State College has launched a crusade to increase the teaching of agriculture in the rural schools of the state. The effort to make this compulsory having failed, the department believes that much can be done by the voluntary co-operation of the teachers and county superintendents. Prof. P. G. Holden has sent out a circular letter to all the county superintendents, and to other interested parties, setting forth a few practical suggestions which he believes will simplify the work and result in an increased interest in this important matter.

In two of the counties of the state much has already been accomplished. Miss Jessie Field, in Page county, and Mr. O. H. Benson, in Wright county, have already popularized elementary

agriculture and manual training in the country schools. But there remain ninety-seven other counties in which but little has been done. Professor Holden pleads for a beginning, even if it is only small. He suggests that not too much be attempted at first, but that, say, ten or fifteen minutes a day be set apart for the teaching of practical agriculture. He pledges the aid of the extension department to the extent of furnishing material such as properly named weeds, weed seeds, insects, facts and data for charts, outlines for lessons, bulletins, etc., and promises a general bulletin giving an account of the work being done in each county by the county superintendent and the teachers.

Professor Holden suggests that each county superintendent select a few of the best teachers to start the work, fifteen or twenty with the most originality and tact. He is convinced that every county in the state has fully this number. He then suggests that the county superintendent hold a school, with these teachers as pupils, and outline what is desired to be accomplished so that the teachers can go to their schools and carry on the work systematically. He suggests that the work may be taken up either with the whole school or with one or two classes, and that if the time is already well occupied this subject can be introduced as an off-shoot to the language or arithmetic work. For instance, Miss Field and Mr. Benson have been very successful in introducing farm problems into the arithmetic class to take the place of the old routine problems. Miss Field has frequently called attention to the fact that many a farmer can truly say of his boy, "Well, he knows lots of arithmetic in the book, but he can't figure up the scale tickets or the milk checks at home." A boy is all too prone to ask, "Do you 'times' it, or is it 'into'?" I could work it if it were oranges. Problems like that are about oranges in the book." Miss Field and Mr. Benson have simplified matters by making the problems something like this:

Suppose a forty-acre field planted to corn for five years in succession produces sixty bushels per acre the first year, fifty-five the second, forty-three the third, thirty-three the fourth and thirty the fifth. What will be the value of the corn grown in the five years at forty cents per bushel?

Suppose, instead of growing corn continuously, the following rotation were practiced: First year, forty acres of corn, sixty bushels per acre at forty cents. Second year, forty acres of oats, sixty bushels per acre at thirty cents. Third year, forty acres of clover, three tons per acre at \$8 per ton. Fourth year, forty acres of timothy, two tons per acre at \$9 per ton. Fifth year, forty acres of corn, seventy bushels per acre at forty cents per bushel. Find the value of the five years' crop.

Which of the two plans would produce the most money in five years? How much more? Which would leave the land in the best condition at the end of five years? Are there any other advantages to either plan?

As destroyers of potato beetles and other harmful insects, a single pair of quail is said to be worth \$5. If this pair produces a brood of sixteen young quail, what is the value of the work done by the entire covey next year?

Professor Holden urges that throughout the entire state such arithmetic work can be introduced in the country schools and that it be supplemented by language work which shall call for the writing of essays on such subjects as "Why I Like to Live on the Farm" and "The Destructiveness of Insects" and "The Crop Value of Insect-Eating Birds." He believes that great headway can be made by this voluntary start and that while the time is coming in Iowa when the teaching of agriculture in the public schools will be compulsory it is not necessary to wait until that time before taking up the work. He offers to send out a representative of the extension department to assist in planting and to co-operate in every way possible. This is a big and important matter and Professor Holden should have the sympathetic support of every county superintendent and every rural teacher, for no more vital problem is before them today than this one of making real country schools for the country people.

When the boys and girls begin to take an interest in farm work and in helping make the farm home pleasant it is a pretty good sign that they and their parents have formed a partnership that needs no written contract to make it binding.



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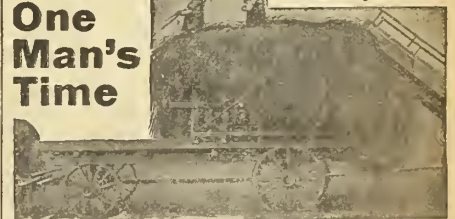
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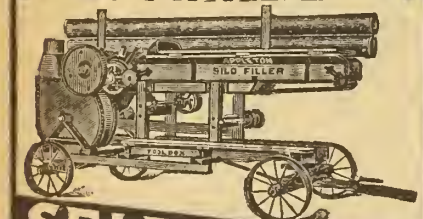
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FARM FURROWS

Turned By a Practical Farmer

Farming is generally considered a humdrum life, but is not found to be that way to those who make things hum and leave the drumming to those who prefer to knock.

Every bright day is the corn belt farmer's busy day, now that corn cultivating season is here. This year the ground needs to be stirred often to retain the moisture and the weeds are as vigorous as though this were weather conditions made especially for their growth.

Lard retails at twenty cents per pound at our local butcher's and I notice in one of our daily papers that a city grocer quotes oleomargarine at two pounds for a quarter of a dollar. From this it is clear that the dairyman does not need to hesitate about raising lard hogs for fear of furnishing cheap material for making the poor man's butter.

There are several kinds of hand separators on the market that will do good work if given reasonable care. All of them require a solid foundation and should be set perfectly level. They should be turned steadily at the speed indicated on the crank of the machine and the oiling carefully attended to. There is no machine on the farm that requires more careful attention than the cream separator.

The present indications are that there will be plenty of room at the top of most of the hay mows next winter.

Fishing is a fine recreation for those who like it, as is baseball, but it is almost a crime to indulge in either when there is weedy corn at home and the soil's working just right. The man who leaves the cornfield is then not working just right.

A self-styled agriculturist, who has evidently farmed more with a pencil than with a plow, tells us that in order to get good results the corn must be cultivated at least eight or nine times. This may be true enough, but the only way for most of us to do this would be to get a three-row cultivator and drive on the trot.

This morning it felt as if frost in June might not be a stranger in the corn belt. It might not be fair to blame it on any political party, so let's lay it up against the comet.

The last week has not been to my liking. The weeds have grown very well and the corn has not, and I have one field of rather weedy corn.

The hog market has been past the understanding of man this season. When the corn belt farmer had his spring pig crop ready for market the price went high; now that nearly everyone has sold short on hogs the price goes lower. I guess they cannot lay this onto packers' manipulation.

An experiment station sent me a bulletin on seeding spring grains, last week. Next fall, about the time I pry the throw board off the hog fence, I may receive a bulletin on corn planting. It seems to me such things could be issued more in season.

He must be a good man in other respects to fall into the ways of a good farmer.

No man can afford to have capital lying around idle, whether in the form of money in the bank, in useless fencing or in horses that eat to live, but return nothing for their board, I cannot think, however, that this applies to the old horse that has already paid his board.

Rich soil makes rank weeds. If the weeds are kept down there will be rank crops, but when a rain every other day interferes it is a tough job to keep the cornfield as clean as one would like to have it. I find that

plenty of rotation gets away with the weeds better and easier than I can with a cultivator. A change for the land puts change in a fellow's pocket-book.

Last year I tried filling a mower sickle with serrated sections, and I wish to advise all readers of Furrows not to follow my example, unless you wish to spend a dollar and your time riveting on the sections for nothing. The serrated edge works all right on a grain sickle, but it "chews" too much for a grass sickle and proved anything but a success on my machine.

Some drive posts and others set them. Either plan obtains the same results. That is the way with some of the methods of farming—some follow one idea and some another, each thinking his is the only way, yet both obtain the same results. Long ago, I gave up the idea that there is but one way to farm.

A Wisconsin farmer, who claims to have had his full share of experience with quack-grass, has a plan of control which he devoutly claims is a good one. Given in detail it is: "As soon as you get the crop off, plow all your land and then sow it all to fall rye. In the spring the rye and quack-grass will look alike. Then sell your land."

THIS MATTER OF ANGUS FAMILIES.

To the Editor of The Homestead:

From time to time I have read articles appearing in your paper on the above subject, written by Mr. Martin, Mr. Wilkinson and Messrs. Rosenfield and Siverly, and beg permission to add through the columns of your paper a few statements to their instructive articles. To begin, I wish to say that I have not had the experience of those esteemed breeders, but during the last decade I have studied pedigrees, show-yard decisions and sale reports, and have noticed particularly this infuriate craze for animals of the Blackbird, Trojan Erica and Pride families.

My object in writing is not to detract from the well-earned fame of these families, but to express my belief that animals of equal individuality and breeding should be on a more level basis of prices regardless of family. I think that there are other families, such as the Queen Mother, Barbara, Maggie, Duchess and Drumin Lucy, whose members are just as good individually as any of the Blackbirds, Trojan Ericas or Prides. I think the last International will bear me out in this. Of the first, second and third-prize winners, statistics show that 30 per cent were Queen Mothers, 28 per cent Prides, 12 per cent Blackbirds, 8 per cent Ericas and 22 per cent other families. This proves which was the best individual family exhibited at that great show and, by the way, what is the use of dealing with prize winners at the St. Louis Exposition, as they are now only "back numbers," long forgotten by most breeders.

I wish to ask every breeder who has the family craze the following question: What was the matter with such bulls as Gay Lad, Moon Eclipsor, Rosegay, Abbottsford, Bell's Eclipsor and the Heather Lads? Did they not sire some of the greatest of Angus cattle—cattle which have won championship after championship at our greatest shows—and are they not entitled to a place on the roll of honor with any Blackbird, Trojan Erica or Pride bull that ever lived? Reason and the welfare of the breed show that they are.

Moreover, where is there a Blackbird, Trojan Erica or Pride bull living today which can show such a record as Glenfoili Thicket? Was there ever one? I refer to his having been thrice crowned grand champion of the breed at the International. I believe that the majority of the breeders will

agree with me that no Angus bull ever had such a record.

Also, are not Abbess of Turlington and Vala almost universally conceded to be the two greatest cows that the Angus breed has yet produced? It can be proudly said of them that they belonged to neither the Blackbird, Trojan Erica nor Pride families. But by the way, they both sold for less money than other more "fashionably-bred" cows which their purchasers were even ashamed to show to their neighbors. Why should such inferior "fashionably-bred" cows sell for more than these and other great championship winning cows? I will tell you. Their purchasers thought that they could find others with the family craze and could sell their inferior calves for more than they could the better individual, "plainer-bred" calves.

As a parting word I wish to caution the Angus breeders at large and especially those with the family craze, to be careful lest they allow this craze to become as detrimental to their herds and, in turn, to their chosen breed as the Scotch craze has been among the Short-horns. Let every breeder look to the future and endeavor to maintain the supremacy of his favorite breed, regardless of the families of the winners.

F. W. Crump.

TWENTY-EIGHT YEARS OF SILO EXPERIENCE

(Continued from page 3.)

will make just as sweet silage as the more mature corn.

In Bulletin of Farm Institute you will find that a gentleman recommends not to build too deep a silo, as he found that the silage in the lower part of the silo was always more acid (sour). This is certainly not due to the depth of the silo, but to the condition of the corn at the time of filling. When we start filling, the corn in most cases is still rather green, and if we fill rapidly the silage has no chance to heat up sufficiently and the result is sour silage. My silos are forty feet in depth, but the ten feet of silage at the bottom is just as sweet as the ten feet on top.

The depth of a silo bears no relation to the quality of the silage. It is merely a matter of economy to have a deep silo, and it is advisable for various other reasons. However, the argument that a deep silo is desirable because of the great pressure necessary to preserve the silage, does not appeal to me. It is hard to understand why the upper twenty feet of silage in a forty-foot silo should have more pressure than the upper twenty feet in a twenty-five-foot silo. And we certainly must preserve it all, the upper twenty feet as well as the lower.—(In Wisconsin Institute Report.)

A DETERMINED WOMAN.

Finally Found a Food that Cured Her.

"When I first read of the remarkable effects of Grape-Nuts food I determined to secure some," says a woman of Salisbury, Mo. "At that time there was none kept in this town, but my husband ordered some from a Chicago traveler.

"I had been greatly afflicted with sudden attacks of cramps, nausea, and vomiting. Tried all sorts of remedies and physicians, but obtained only temporary relief. As soon as I began to use the new food the cramps disappeared and have never returned.

"My old attacks of sick stomach were a little slower to yield, but by continuing the food, that trouble has disappeared entirely. I am today perfectly well, can eat anything and everything I wish, without paying the penalty that I used to. We would not keep house without Grape-Nuts.

"My husband was so delighted with the benefits I received that he has been recommending Grape-Nuts to his customers and has built up a very large trade on the food. He sells them by the case to many of the leading physicians of the county, who recommend Grape-Nuts very generally. There is some satisfaction in using a really scientifically prepared food."

Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

CURRENT EVENTS

THEODORE ROOSEVELT, ex-President of the United States, arrived in New York from his African hunting expedition and trip around the world last Saturday. He was given a tremendous reception by millions of people, citizens of New York and those who had gathered in the city in honor of his homecoming. When the liner on which he had crossed from Southampton arrived in port it was greeted by hundreds of yachts, tugs and various vessels, which screeched a noisy welcome. Colonel Roosevelt was escorted from the dock by the Rough Riders, whom he had led to victory in the Santiago campaign. He passed in review between parallel lines of thousands of men belonging to various military and civic organizations, who were stationed along the street, but who did not participate in the parade themselves. If there was any doubt in the mind of any person as to the hold which Roosevelt has on the affections and loyalty of the rank and file of the American people it was dispelled by his homecoming welcome. He seems to be more popular today than ever before, while his triumphal tour through Europe proves that he is without doubt the most notable man in the world today. The ex-president as soon as possible repaired to his home at Oyster Bay, where he will spend a few days in quiet before starting on his western journey. He is in good health and has thoroughly enjoyed his year's outing.

CHARLES K. HAMILTON made a spectacular flight in an aeroplane from New York to Philadelphia and return during the past week. Mr. Hamilton made the trip to Philadelphia, a distance of almost ninety miles, in less than two hours, maintaining a speed of approximately forty-eight miles an hour. He delivered letters to the mayor and Governor Stuart from the mayor of New York and Governor Hughes, thus establishing the first aerial mail route in the world. After staying in Philadelphia a couple of hours he started on the homeward trip, but was obliged to descend when fifteen miles from New York, because of not having cleaned his engine sufficiently. After a short stop he proceeded, however, and made the round trip journey in less than twelve hours, although twenty-four hours were allotted to him by the terms of the trial. Cross-country flights are becoming rather common lately, as several aviators have made successful flights in Missouri and Kansas within the past few weeks. It is expected that aeroplanes will be the features of several of the state fairs this fall. They will undoubtedly attract great attention and add materially to the attendance.

AS A RESULT of the recent election Governor Haskell has declared Oklahoma City to be the future capital of Oklahoma. The unofficial returns show that Oklahoma City has a plurality over Guthrie and Shawnee of approximately 65,000. As soon as the returns seemed to justify it Governor Haskell moved his offices from Guthrie to a hotel in Oklahoma City. He was accompanied by Secretary of State Cross. They proposed to remove the records and to make Oklahoma City their permanent official headquarters. But Guthrie did not take kindly to this action and although it had lost a fight at the polls it proceeded to institute injunction proceedings in the courts restraining the governor and secretary of state from removing the official records and seals of office from Guthrie. As a result of this controversy Oklahoma has had practically two capitals since the election. Duplicate seals have been procured and rival officials are issuing documents from rival capitals. Just how the affair will end it is impossible to say until the court proceedings have been concluded. Oklahoma City has been waging quite a fight for the honor and believes that it is the logical capital, being the me-

ropolis of the state and the most easily reached city. Guthrie is a prosperous town, however, and does not propose to lose its honors without a hard fight.

THE annual Glidden automobile tour is now in progress, thirty-seven cars participating. The journey is from Cincinnati to Chicago via Texas and other southern states, making a trip of approximately 2,500 miles and consuming more than two weeks' time. The prize goes to the car, not which makes the fastest flight, but which completes the journey with the smallest number of accidents and repairs. The contest is one of durability and stability rather than of speed. The first day out one of the cars broke a wheel, causing a penalizing of 1,042 points. In recent tours some of the cars have come through with an absolutely perfect score, which means that no accidents resulted and no difficulties were discovered in any part of the mechanism. The greatest interest is being maintained along the line and in anticipation of the coming of the Gliddenites many of the country roads have been graded and rolled and put in splendid condition, so that the tour is not without its practical value.

GOVERNOR GILLET, of California, has instructed the attorney-general of the state to bring proceedings in court to prevent the proposed fight between Jim Jeffries and Jack Johnson at San Francisco on July 4th. The state law is plain on this matter and it does not appear that the fight can be pulled off if the governor is determined in his opposition, as now appears settled. It is expected that the fight will be transferred to some place in Nevada or to Salt Lake City. The two men are to fight for the championship of the world and a purse of \$101,000. A storm of protest has swept the country against desecrating the Fourth of July by the spectacle of two men, one white and one black, mauling each other for money. This is too brutal and degrading a way for America's natal day to be celebrated.

BY THE overwhelming majority of 195 to 101 the house of congress has passed the postal savings bank bill as recently agreed upon by the republican caucus. Not a single republican voted against the measure on final roll call, while twenty-four democrats voted with the majority party. Under the terms of the bill as it passed the house a board of trustees is created, consisting of the postmaster general, the secretary of the treasury and the attorney-general, who shall declare what postoffices shall become postal savings banks. Deposits in these banks made by any one person shall not be more than \$100 a month or exceed a total of \$500. An account may be opened with \$1, but stamps of ten cents each will be issued for those desiring to accumulate money to be deposited. On deposits 2 per cent interest per annum is to be paid. Any depositor so desiring can exchange his deposits for government bonds to be issued in denominations of \$20, \$40, \$60, \$80, \$100 or \$500 to bear interest at 2½ per cent per annum. The money accumulated in the postal savings bank is to be deposited in both national and state banks in the vicinity of the postoffices in which the money is deposited by the people, such banks to pay 2¼ per cent interest. Five per cent of the total deposits is to be retained by the secretary of the treasury as a cash reserve. Not more than 30 per cent of these deposits may be withdrawn by the government at any one time for investment in bonds of the United States, the remaining 65 per cent to remain on deposit in the banks. The bill has gone back to the senate for adoption by that body, the house measure differing in some material respects from the senate bill.



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SUCCESS OF WOMEN FARMERS



Hundreds are Joining in the Back-to-the-Land Movement, Finding Helpful, Healthful, Remunerative Work on the Farm—Some Instances of Marked Success Which Should Inspire Others



ALMOST a million women in the United States are either farmers or farm laborers. The 1900 census showed 307,706 of the former and 456,495 of the latter. The 1910 census is confidently expected to show an increase, so that the aggregate will be approximately a million.

The growing popularity of the homestead in the far West is largely responsible for this increase, but the fact remains that women in the Atlantic East and in the grain belt are finding out that there are attractions and financial advantages in farm life which make it well worth adopting. In the East the women are turning their attention largely to abandoned farms, of which Massachusetts has such a number that the state board of agriculture issues an annual catalog. Connecticut and New Hampshire are also well supplied with these farms, which have apparently been worked out and have been abandoned by their former owners, but which by intensive cultivation and by the application of scientific methods are capable of producing good returns for the money and labor invested. Women having more patience than men and being accustomed to spending more time in little details are proving more successful in reclaiming these abandoned farms than are the men. In the Northwest and Southwest claims are being filed upon in large numbers by women both young and old. It is estimated that several thousand women take up homesteads in the Pacific Northwest every year. A large proportion of this number are school teachers from the East and middle West. More than half the number are city women who have eked out a precarious livelihood for some years past, and who turn to the country with high hopes and a determination to put up with inconveniences and work hard to establish a home for themselves.

This movement back to the land is affecting all classes of people. A writer in one of the leading magazines devoted to women, who detailed the experiences of some eastern girls on a homestead in British Columbia, received over sixty letters from women in all parts of the country asking for particulars as to how homestead claims might be secured and the manner of living thereon. Included among these letters was the following:

"I have a dear friend, a young actress, whose husband is an actor as well. Two years ago they lost all their money in taking out a company. She has a baby two weeks old. The doctor says she will never be able to sing or act again and the West is the only place for her if she desires to live. Her husband is in South Carolina; he will soon be in Florida with the company. His salary is \$25 a week. She is here in Philadelphia with board to pay and they can scarce make both ends meet; in fact, she has sold expensive pieces of wardrobe for almost nothing to get something the baby needed. They love each other and are very unhappy apart and have struggled many ways to get together once more. The question is: Would it be possible for a man to go to the Mississippi or Missouri valley country with a wife and baby a few weeks old, penniless (he would have to borrow the fare to get there) and be able to get the bare necessities of life for them? Do I understand that these claims which are open to entry have little houses on them or must they build the houses themselves? If so, where could a woman and baby go until the husband had built it? They are both educated; would it be possible for either to get remunerative employment, that is, enough to enable them to exist? She is a convent-bred girl who turned to the stage when she was left an orphan and suddenly found herself penniless as well. Neither of them have any near relatives. She is sensible, so they look for hardships, but if only they can be together and her health regained they would be very happy and ask no other comforts."

This letter is a fair sample of the many others received and shows the interest which is being taken in farm homes by all classes of women.

But the interest is not confined either to the abandoned farms of the East or to the homesteads of the Southwest and the Northwest. The demand for country homes is widespread. Shop girls, pale and tired, attracted by the stories of others who have tried the experiment, are renting for terms of three and four months cottages in



MRS. JAMES WATSON.

A Missouri woman who has realized the possibilities of farming for women.

the verdant valleys, hoping by the subletting of the places to pay the cost and at the same time get back the roses that have flown from their cheeks.

Nervous business women, sick of the fight for existence in the whirl and turmoil of the large cities, are planning to start poultry farms. Others are going in for the raising of garden products. Many society women, according to recent reports, have taken courses in scientific farming at the great universities and are preparing to put the lessons they have learned into practice this summer.

Cornell and other universities are giving three-months courses in poultry raising and in dairy and truck farming. These last winter were attended by a remarkably large number of women. One young woman who spent last summer at Newport, and at the end of the social season was more tired than at the beginning of her vacation, took the course in chicken raising. She has now rented several acres outside New York, bought a cow and with her mother as chaperon and a man to do the hard work will spend what

she thinks will turn out to be a much more profitable and pleasant summer than last.

The daily life of a girl who lives on an American farm is bound to be productive of health, and health means rosy cheeks, a rousing appetite, bright, sparkling eyes and a clear complexion.

An American farm girl is vastly different from the poor women folk that drudge their lives out in the fields of Europe.

Modern machinery has so revolutionized old methods that she can work hard or little, just as she may choose. Up with the lark, the average young woman whose home is on a farm gets breakfast for the "hands," "cleans up" and has time for a comfortable loll in the hammock beneath the spreading branches of a shade tree before dinner. She may take a hand in the fields and help with the planting or the husking if she likes. It is not expected of her, however. No city man is more careful of his womenkind than the American farmer.

Country girls are seldom old maids. Indeed, in the opinion of Prof. William Thomas, of the University of Chicago, they are the best sort of women in the land for a man to marry. Professor Thomas calls city girls artificial beauties and points to the professional beauty specialists who make a living "doctoring" faces as proof. He places the charge of extravagance against the city society girl and holds their country sister up as the saving grace for the matrimonially inclined.

"Luxury is the barrier to the matrimonial young men and women of the cities," he declares. "Matrimony to the well-to-do must mean luxury and the average young man does not want to assume that contract."

"Girls, study your country sisters," he said recently. "Stop this everlasting fashion of stroking a shaggy poodle and wasting time on Teddy bears and the marriageable men will have more time for you. Go out into the country. Live the life of your country sisters and the bloom of health will come to your cheeks without the aid of cosmetics."

There are hundreds of women throughout the grain belt who are actively engaged in all the branches of farming. The experiences of some of these women are valuable as showing others what can be done with determination and enough capital to get the initial start.

For the past three years Mrs. James Watson, of Dearborn, Mo., has been farming successfully. How she came to engage in the work and what success she has met with, are best told by Mrs. Watson herself:

"Three years ago a few of our Platte county farmers found that our soil is equally as good, or even better than that of Kentucky.

"I had been left a widow just the year before and at last decided to venture into farming, having had no training for it, however. My crop netted me the first year \$285 an acre. The next year I planted eight acres, which is considered a big crop for one person. I have now twenty acres of clover and fifty acres of corn. I have bought the best seed money can buy, figuring that it costs just as much to cultivate poor grain as the pedigreed. Farming requires close attention and much labor, but the financial ends justify the work. Moreover, I have never seen anything that looks prettier than well-cultivated fields.

"My advice to women is to make a place for yourself in the world, make an effort to be independent. In everything you undertake, do it with a feeling that 'where there is a will there is a way.' Farming or any other work, to succeed, means labor, to do things at the right time and not put off until tomorrow what should be done today. I have succeeded in my every undertaking because I got in with a determination to know no such word as 'fail.'"

"Another thing for women: they should make a mighty effort to be broad-minded; too many live in such a narrow channel they can do nothing for themselves and wonder and feel a little envious if others do succeed. They don't give themselves a chance. Above everything else, too, they must be considerate of their employees. Men don't like to be 'bossed' by a woman, and I don't blame them, but



MRS. HESTER PINKHAM.

A New Hampshire woman who is as good a farmer as any man.

(Continued on page 14.)

Iowa Swine Breeders' Meeting

THE live stock industry of Iowa has, in the Iowa Swine Breeders' Association, a champion which has a widespread influence in the advancement of all collateral lines of work, as well as those especially involved in the business of the swine breeder. The annual meeting of the association, which took place at Des Moines, June 14th, brought together not only men of long experience in the practical work of pork production, but some of the foremost scientists and government experts who are devoting their energies to the solution of those problems which they alone are capable of solving.

It was a little unfortunate that the conditions of the season prevented more than a meager attendance of farmers and members of the association.

The meeting was called to order by Pres. H. F. Hoffman, of Washta, Iowa, who introduced Mayor James R. Hanna, of Des Moines. Mr. Hanna in his address of welcome presented some pertinent thoughts. These, however, as well as the entire proceedings of the meeting, we are obliged to curtail to some extent and therefore present only the more prominent and important ones. Mr. Hanna gave a warm welcome to the swine breeders, saying that he appreciated them, knowing that a man who has learned to keep his temper in the hog lot was likely to control himself in the city with all its temptations. He got right down to business and entered upon a discussion of the popular question, "How are we going to counteract the Present High Cost of Living?" He believed that the situation was more largely in the hands of swine breeders and stock raisers and farmers in general than in those of any other class. He believed that the farmer had but just got into the economic stage where it takes more labor to produce the same amount on an acre of ground than it used to do. The farmer he thought must begin to put more work on his farm and get less returns for it. The only way in which the old ratio of profit may be secured by the farmer and stock raiser is to make the business one of brains rather than brawn. The mayor stated that in his earlier days he had himself been a raiser of pure-bred hogs, and that his experience led him to appreciate the problem now before the farmer of raising five-cent pork on sixty-cent corn.

He believed that it could be done. He, himself, made it his personal rule as a hog raiser to start the pig to the pork barrel as soon as he was born and kept him ready for the pork barrel as soon as he was old enough to go there. The mayor cited another feature of his own experience. It seems that he left the farm to go into other business, and after a series of years went back and took up again the old work. He found that he had gotten out of date and that his old experience did not prevent him from doing business at a loss. However, he stated that the business education which he had secured during the meantime, led him to quickly take advantage of his opportunities, with the result that within a short time he had regained his prestige and placed himself among the profit-making class. He believes that the combination of the theoretic with the old-fashioned, hard-headed common sense must be made in order to bring the hog raisers' business up to the proper basis. Turning again to the cost of high living, he cited the fact that one of the reasons for high living not ordinarily given appreciation was the large number of men now engaged in manufacturing automobiles, which had no productive value. He referred also to the immense amount of money leaving this country for Canada in search of cheap lands. Both tended to reduce the productiveness of the land and added to the demand for the land's products. He believed that railroad expansion in a measure made the country poorer. There seemed to be a period between the development of the railroad industry and the time when the country was on a par with that development.

President Hoffman, at the close of the mayor's address, responded and also presented his president's address. He paid the city and the mayor some very pretty compliments. Taking up the serious phase of his subject, he stated that the agricultural press of the city comprised a subject which was well worthy of the serious consideration of swine breeders. As a private enterprise the press had worked in season and out for the advancement of the swine breeder's industry. He was pleased that the editors of the live stock journals helped hold the meetings and considered themselves a part of the organization. He was not in sympathy with the sentiment sometimes expressed, that the breeders did not meet the live stock journals, saying that possibly the breeder might live without the journal and the journal might also live without the breeder, but in each case the advancement would be slow. He advocated the principle that "united we stand and divided we fall" as a means of bringing about pleasant lines for everybody concerned. Mr. Hoffman stated that the state of Iowa and its environment constituted a territory in which corn was most profitably produced and consequently hogs, and hence the importance of this organization in such a territory. He referred to the ultimatum of the scientific man that too much corn must not be fed, and added that the clovers which afforded the needed variety were here produced in their highest excellence. He advocated swine raising as a means of producing finished products, reducing railway tariffs and affording the best means of making money by saving money. Mr. Hoffman regretted that there was not a more general attendance of young men, as the knowledge to be gained at these meetings was of the highest importance. He advised the young men to take a course in college if possible, but if not, to do the next best thing and get bulletins from the experiment stations and attend meetings of this organization.

Dr. W. B. Niles, of the United States Bureau of Animal Industry, who has in charge the government experiment station near Ames that is devoting its interests to investigation of the serum method for the prevention of hog cholera, gave an extended and highly interesting talk on the subject, "Prevention of Hog Cholera by the Serum Treatment." He went

somewhat into detail in a history of the investigations of the United States government on the subject of hog cholera cures. He referred to the many investigations along lines that proved fruitless because of the absence of knowledge of the cause of cholera. He stated that scientists no longer believed in the existence of two distinct diseases which have previously been known as hog cholera and swine plague. Swine plague, he said, had been dropped from consideration as a separate disease. While scientists as yet are somewhat in the dark as to the unknown organism at the base, as the original cause of hog cholera, they have in a very large measure succeeded in developing plans for the cure and prevention of the disease. The investigations along the present line began to bear active fruits with the establishment of the bureau station at Ames in 1906. Dr. Niles and others had succeeded in developing the hyper-immune serum. This was tried in a limited way on a few susceptible animals. In 1907 the opportunity was greatly enlarged because of the fact of numerous outbreaks of cholera in the country surrounding the station. In some cases this cholera was exceedingly virulent. The doctor stated that farmers co-operated in the experiments and turned over their herds to him for treatment. Something like fifty herds were treated under natural conditions. Some of these were large herds, some small ones, some pure-bred herds, but the majority ordinary farm pork-producing herds. The conclusions reached were quite conclusive as to the value of the serum as a prevention and to some extent as a cure. Dr. Niles stated that in herds not treated the

losses from disease would average around 90 per cent. Referring in detail to the herds treated he stated that the first experiment was made in a herd in which the farmer had lost nearly the entire number of hogs. At the suggestion of the doctor he purchased thirteen more. These were placed in the lots in which the other hogs had died. Ten were treated with serum and the three remaining were left untreated. The thirteen were shut in the hog house with the remainder of the afflicted herd, among which were some lingering cases. The three untreated hogs were left so in order to see if there was enough disease left to be communicated. They began to show symptoms in a short time and finally died. The ten which had been treated remained well. The next experiment was made on a farm in which the disease existed but a large number of animals still lived. Several had died. The doctor selected fifty-one head from this lot, which seemed to be in fair condition. These were divided into three lots; two lots were treated and the third left untreated. They were then turned into a clover field with access to a cornfield. Of the thirty-four head which had been treated with serum six died. Of the seventeen head left untreated fifteen died. The doctor referred to numerous cases, but as the results were practically in the same proportion as that last referred to, we do not give details. The doctor stated that they had wide opportunity for investigation of all the problems involved. He wanted to learn whether he could vaccinate old hogs, shoats or pigs successfully, or whether he could only successfully vaccinate shoats, or whether he could vac-

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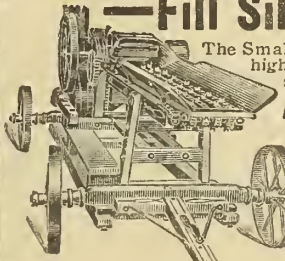
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ciate all ages. He wanted to learn the effects of a small dose or a large dose, and also as to the effectiveness of the treatment as a preventive measure. It was, I believe, demonstrated that the treatment was an absolute prevention in herds which had not yet been exposed. The doctor stated that while he did not recommend the use of hyper-immune serum as a rule when disease is present, he found that in a number of cases animals with a mild form recovered. He stated that if measures were taken early in a herd attacked by cholera, practically all the animals not sick might be saved; while later treatment would be valuable it would not effect the same proportion of cures. He stated that by treating with hyper-immune serum at the first outbreak, disease could be stamped out, and he did not believe that there was any necessity for disease extending over the country as it has in the past. Hogs of all ages can be vaccinated and if the vaccination be given those in the community surrounding an affected herd there is every probability of stopping its spread. Taking up the subject of the general action of the government, the doctor stated that through the advice of Secretary Wilson a number of different state experiment stations had been established. These first came to the station at Ames and investigated methods as well as learning the different processes. At the present time stations are maintained in Minnesota, Illinois, Indiana, Ohio, Nebraska, Kansas, Oklahoma, Texas, Missouri, Arkansas, Kentucky, Tennessee, Delaware, New York, Pennsylvania, Mich-



The great Duroc Jersey brood sow, H. A.'s Queen, and her great litter by the sweepstakes boar, Crimson Wonder Again. Owned by W. M. Sells, Indianola, Iowa. See advertisement on page 25.

igan, North Dakota and South Dakota. He stated that the experiments of these stations secured practically the same results as at Ames.

In reply to questions, Dr. Niles gave the additional information that there are two methods of vaccination. It has been found that the use of hyper-immune serum brings about only temporary immunity. If during the time of this immunity the hog comes in contact with a sick one, the immunity becomes permanent. In order to immunize an animal for life, there is used with the serum a small amount of diseased blood. In stamping out disease, the use of serum only is necessary. In very rare cases will disease stop from vaccination, and the losses resulting will be quite light. Serum alone cannot start disease, the other might do so. The doctor did not consider it necessary to vaccinate hogs unless there was disease somewhere near. He thought those who attended fairs should vaccinate. Some states make it compulsory, and it seems to him it would be the proper thing to do. The serum treatment alone, only secures immunity for a few weeks.

In answer to a question as to whether a farmer might vaccinate his own hogs, Dr. A. T. Peters, who was present for the purpose of discussing another subject, said:

I do not believe it is well for a farmer to undertake vaccination unless he has gone through a course of training. The work should be done accurately and that can only be done by trained men. I am surprised that the state of Iowa does not furnish serum free as Illinois, Nebraska and other states are doing. I believe the state should take care of its hog industry by appropriating a certain amount of money to do

this. It should be done by the state and done thoroughly. If cholera breaks out in a community, the herd in which it appears should be immediately quarantined. There should be no fear that the quarantine is going to reduce the price of the hogs; it is simply to keep other farmers away. One of the worst habits that farmers have is that as soon as anything happens on a neighbor's farm, they go to see, without any idea as to whether they are going to take back diseases to their own place. I see this day after day, because as soon as farmers learn I am to be at a certain place, they are "Johnny-on-the-spot" and want to see what is done. My advice is that farmers secure their information by telephone, it will mean much to them. This is the way we are doing in Illinois and Nebraska. If a herd is affected, we vaccinate the herd and keep it closely quarantined. If the veterinarian does not do the work well, we put another man in. This plan saves wealth to that part of the country. Sometimes we have opposition, but as soon as people know what we are doing, the opposition disappears. In our work we are using only the single method of vaccination and are having great results.

Dr. Peters is taking up the subject assigned to him, "Preservation of Health in the Herd," presented it as follows:

This question of taking care of the hog is one of my hobbies. We have many diseases that we should take care of and prevent. One of the diseases that you should be careful of and one that is spreading throughout the country to an alarming extent is that of internal parasites in hogs. That disease among hogs has increased to such an alarming extent that the United States government just about a year ago put a man on for the inspection of hog lungs. Ten years ago we were practically free from that trouble. Our herds are beginning to be more and more infested and it is due to the fact that we have not given it enough attention. There are very few breeders in the country who use the precaution

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can spray. Dipping is pretty hard work, especially if you have not your dipping arrangements made so that it is practical. If you have a dipping apparatus get it so that it is winding so that the hogs cannot look ahead, because you know hogs are pretty stubborn. It is tiresome work to keep poking them along and they won't go. You can make up a dry battery which costs but little. Buy a cord and attach it to your battery. Have a little end sticking out and all you have to do is to poke Mr. Hog and he will give a jump. It will keep your temper much better and you will get good results. It is the easiest thing in the world to get a good hog out of order.

You may ask me what is the best dip. At the present time I am using crude oil, about an inch and a half on the water. Then I have a number of rubbing posts on which I use crude oil. I like it because it has a more lasting power than any other dip and it is the oily effect that you want. That gets the nits. The first dipping will kill the lice that are on the hog, but it is the second crop of nits on the

animal has a great deal to do with it. We find that it comes from a peculiar germ and if we place it on the jaw of another animal we can infect it also. But if you take those animals immediately and wash the entire infected part with a good solution or strong disinfectant you can save them in a very short time. It might be due to injury such as the too sharp teeth or fighting, but I want to say this, that if you have the trouble get after it right away. If you are going to neglect it you will find it will go through your entire litter. Not only do you want to disinfect those animals, but you want to separate them into a little pen by themselves to avoid having your entire hog house becoming contaminated. If you will do that you will get rid of it, but it will mean a lot of work. If the animal is not worth very much, in order to save the others it is well to sacrifice the one. It is quite a troublesome thing and you have to keep after it every day.

In cases of sore mouth the udders of the sow will become infected and should be washed and disinfected every

to the breed by picking the big, coarse animals as the too small ones.

Mr. Hoffman continued on the same question:

There are several ways to maintain size—by breeding, by feeding, and different ways, and it is very essential for us to keep guarding against the tendency to grow poor ones. I don't know of any better way to keep uniform type than by following the saying that like produces like. I believe that if we use a sow and a male that are near alike we will produce a more uniform type than in any other way. It is quite a broad term to say size or type. I read an article the other day along this line and I think the man was laboring under great misunderstanding because he claimed that the fairs and score card and everything else tended to run down our hogs and make them small. I don't look at it that way. If you understand the score card right you will find you get a better hog, a more uniform and symmetrical hog. I think by feeding and

have a man one year who picks a little type and the next man picks a big type, because many people will want to breed from the winner and buy from that strain, and how are you going to keep uniformity of type when one year you go one way and the next year the other? I have been always an admirer of a medium-sized hog, but the trouble is to know what the medium type really is. You can't get a hog too big for me if he has the quality. A big, hard feeder will show it in his makeup. But if the hog has other qualities with his size, if he has fineness of build and all those other good qualities with his size, I don't care how large he is. I think there is only one way to get uniformity of type and that is to breed your hogs and sows as near the same type as you can.

Mr. W. H. Cooper, Hedrick, Iowa:

It seems to me there has been more agitation on type among Poland China breeders than any other breed and nearly every man has his fancy. I notice that many breeders of the smaller type in getting up their advertising matter will use the big-type demonstration, that is they will word it that way if they can. In order to grow the big type you must have the big-type blood lines. I never saw a hog that was too large so long as he had the quality. We have arrived at a time when we have to produce as much as possible with the same amount of material. I have had pigs that actually gained a pound a day from the time they were born until ready to go to market. I think the big type is getting the dollars and as far as the type is concerned I am largely in favor of the larger type, but they must have quality.

Mr. W. P. Saunders, manager of the Agar Packing Co., of Des Moines, presented a paper on the subject, "The Meat Situation," which was read by the secretary. Mr. Saunders said, in part:

Enough has been said already to show that the increased cost of meat is due to the failure of the animal industry to keep up with the increase in the human population. In some areas of the country there has been an actual decline in the number of farm animals. The Texas Commercial Secretaries' Association reports the number of cattle in Texas, January 1, 1909, to have been 8,794,000, while on January 1, 1910, there were but 5,959,926. After all the world's elaborate process of reasoning in regard to the causes and conditions of present business affairs, we shall have to go back to the simple act of blaming the farmer if we want to put our finger on the spot whence comes all the uncertainty and confusion of this spring. It is highly unfortunate, for the average man wants to find a combination in restraint of trade that is doing all the mischief, and the farmer is not a combination in restraint of trade. What are the grounds of complaints and confusing factors of the times? High prices, the tariff, the political situation and the adverse action of the

(Continued on page 20.)



The famous Shadeland Stock Farm, owned by Edmonds, Shade & Co., of Kingsley, Iowa. They are offering some splendid young Hereford bulls and Duroc Jersey boars for sale. See advertisement on page 26.

hair which will hatch out in ten days that you want to be careful about. This oily stuff will prevent these little nits from cropping out.

While you are going to all this trouble of dipping there is one thing that you want to bear in mind, and that is if you have any rubbish lying around your hog house that is just what you want to burn up. They are full of lice. You don't want to take a day off dipping hogs, probably injure a good hog and feel badly about it for two weeks afterwards every time you think of it, and then not remove the cause. Know the cause and then remove it.

I believe in feeding the hogs. We have found in this serum work that by giving our hogs special rations we can secure a great deal more blood even in the winter time, and we know that some other stations have gone out of business in the winter time. The different stations have shown that by feeding balanced rations they can increase the breaking qualities of the hogs. That is important you know. You will agree that if you can increase the breaking quality from 800 (which is the average) by just adding some little food to it, to a breaking point of 2,300 to 2,600 it is quite a difference. You will grant that if you can do that that the animal ought to have more resistance power. From what I have worked out I do believe that they would have more natural immunity and would be stronger to resist disease.

I am asked many times if tankage is not made from all the diseased hogs. It is not made from the diseased animals from the packing house. The diseased animals found in the packing house are under the supervision of the government inspectors and they are made into fertilizer. Tankage is somewhat dangerous to feed to hogs. If you are not careful you will overfeed, because it is too rich, and you will have a disease among your herd in a very short time that resembles hog cholera. You can get them off feed in three or four feeds if you are not careful.

A great many people lose their hogs during weaning time and right after farrowing time. Every now and then we read of a great loss among hogs, the little pigs dying within two or three days, possibly four days after farrowing. Two years ago we had a great loss and it was due to the fact that we had a very wet season, and these hogs coming just at that time they got into a bed that was damp. This often happens. If a sow be allowed to farrow in a damp, wet place the little hog will become infected in the navel. The little fellow might have been a chubby little animal, but you will find him thin and he won't eat and a yellowish discharge comes from him. Some say it is too rich milk, but I think you will find the infection comes from a damp, bad bed and it can be prevented. If you have one of the rainy seasons just tie the navel of this little hog and disinfect it and you will have no trouble. That is worth a great deal of money to you. The other part of it is the weaning. The average farmer does not have the right method of taking the sow near a great pasture so the little fellows will gradually wean themselves and that is where we have another great loss.

Another feature is that the little fellows will have an infection of sore mouth. It occurs either on the upper or lower jaw. I believe the feed of the

day. I have had good success with carbolic acid or dip, but you have to keep after it all the time.

The lung worms are pretty hard to handle. I think there is nothing better than turpentine. Turpentine is so diffusible that it goes through the entire system quickly. It may be a little hard on the kidneys, but it is the only thing that will go through the lungs. If all breeders and farmers would treat their hogs that are affected with lung worms in that way and quarantine them, we would soon get rid of it. Hogs infested with lung worms will stand and cough. They don't do very well, but you won't lose any of them. They don't have the tucked-up condition of the flank except in the latter stages. They will put on some flesh, but they will not have the real bloom that you desire and you will find the lungs entirely infested with little thread worms. Two or three years ago we did not really believe the intestinal parasite had much to do with the animal, or really injured the animal. We are beginning to take more notice since Dr. Styles, down in the South, has said so much about the hook worm. You will find people there infested by only a few parasites, but they will develop a symptom that you can detect them out of many thousands. We have in the West a disease in the intestines among horses. The average veterinarian who has never seen this parasite would probably pass it over and yet you could pick out a little handful that would produce a distressing effect on the horse. So we are just beginning to take notice of the intestinal parasite.

Speaking further regarding the lung worm, Mr. D. L. Howard said:

I can tell you something that will get rid of this lung worm—something that is safer than turpentine, and that is kerosene. As I understand it the germ of the lung worm finds its lodging in the bronchial tube. It hangs onto the walls and creates a tickling sensation which causes the hog to cough. Sometimes the hog will die, but if they don't they are of a weak constitution. When you are rid of intestinal worms and your hogs still cough they have lung worms, and a little kerosene will dislodge all the worms in the throat. It will not get into the lungs, and if there are many in the lungs you will lose the hog. I know of a party in southeastern Iowa who had been raising sheep for thirty years on his farm, and that ground got so infested with lung worms that it was impossible for him to develop his sheep so he disposed of the sheep and got forty head of two-year-old steers, and in about three months' time those steers took sick. He called a doctor and found that it was the same as the lung worms the sheep had.

"Maintenance of Size and Uniform Type" which was open for general discussion was taken up by W. Z. Swallow, of Wauke, Iowa, as follows:

I think there is quite a bit of room for talking on this subject. I think the Poland China man more than any other breeder has had a great deal of experience. For a while they went for a small animal and then the next jump they wanted too big an animal. The medium-sized animal is the best, I think. That has been my experience for about forty years. I think there has been just as much detriment done

selecting right you will get the best results.

Mr. Swallow gave his ideas further, saying:

I started out about fifty years ago and I picked my type of animal that I wanted to raise and in selecting after that I always aimed to get something that was as near that type as I could. You want to get as much size with quality as you can get and just keep that going right along.

Mr. Harding said:

I find the trouble with the size business, with keeping the size, is that the tendency has largely been to place ribbons at our state fairs on rather medium or under medium hogs. There is another feature to the uniformity of type. You can never keep a uniformity of type in any breed of hogs if you

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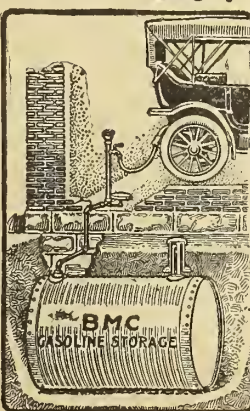
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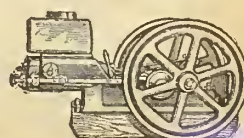


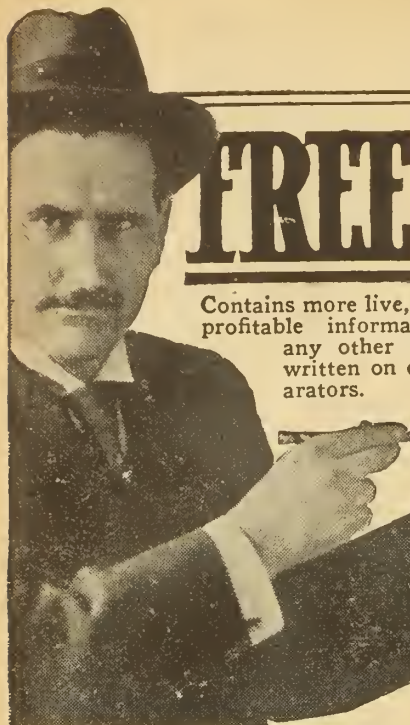
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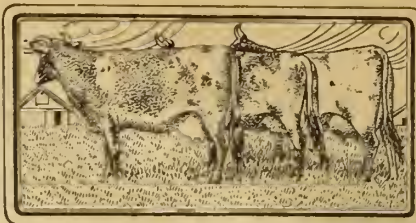
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ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

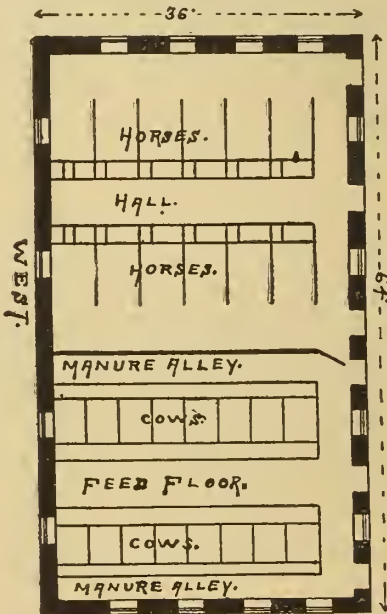
VENTILATING THE BARN.

To the Editor of The Homestead:

An Iowa subscriber sends the following communication:

As I am intending to build a barn this month I would like to have some advice as to ventilators and how many to put in. My barn is to be a basement barn, 36x64 feet. There will be a wall 7 feet 6 inches high at both ends and the upper side. The lower side will be 18 inches above ground. I want to have two rows of stalls for horses and two rows for cows, across the barn. The barn will stand north and south, with the high wall to the west, and there will be a cattle shed at the south end. The horses are to be at the north end of the barn and the cows at the south end, with a board partition across the barn between them. What are ventilators made of and how many shall I put in?

In answer to this request for advice in building a new barn the writer has drawn the accompanying floor plan,



A GENERAL PURPOSE BARN PLAN.

which in our opinion would be about as good an arrangement as could be devised for this kind of a barn. As it is to be a bank barn the matter of ventilation is rather a question, as most all the systems that are at all satisfactory take the fresh air in at

inches wide, while twelve would be still better. Two old-fashioned spring-barrel bolts are used for each sash, one on either side, and several holes are bored in the frame for the bolts, which will allow the window to be held in any position, that is, closed tight, opened a few inches, or the full width of the frame. This allows a current of fresh air to flow in that will first strike the ceiling and then gradually settle down to the stock. The windows may be easily opened and closed to suit any weather. The windows on the north, south and east should be four light sashes with panes not smaller than 12x14 inches in size, and as the foundation extends only 18 inches above grade on the west, these windows can be two light sashes with 12x14-inch panes. All of these windows can be made larger and would by so doing benefit the stock. Each head of stock should have at least 500 cubic feet of air space and there should be one square foot of window surface to each 140 to 150 cubic feet of air space. Our correspondent states that his barn will have a 7-foot-6-inch story, which would allow only about 7,100 cubic feet of air space for the sixteen head of cows. This is not as much as they should have, by at least 900 cubic feet. For this reason I would advise him to make the story 8 feet. The air space for the horses is ample and the height for the cows is sufficient if he had the required amount of air space. As will be seen, the partition separating the cows and horses is tight, with a door on the east side. The horse stalls are 14 feet, gutters 18 inches, mangers 2 feet, feed floor 5 feet and manure alleys 3 feet. The cow stalls are from 3 feet 6 inches to 4 feet wide.

J. E. Bridgman.

THE SILO AND FARM SUCCESS.

To the Editor of The Homestead:

On a trip up through the heart of New York State recently my attention was called to the fact that wherever we found the silo, there was a general air of thrift about everything. The farm buildings would almost universally be in good condition, well painted and kept up in good shape, the fields would appear trim and in fine state of cultivation and the cattle



UP-TO-DATE FARM BUILDINGS.

the floor line or at least not far above the floor and the foul air escapes at or near the ceiling. I would advise our correspondent to use the Sheringham Valve ventilator, which is in principle simply a window. The sash in this case should be set as far out as possible and swing from the lower edge with good strong hinges and shut against one-inch stops. The window frames should be made at least ten

sleek and prosperous in appearance. On the other hand, when we struck a locality where the silo was not in evidence, we could not help noticing that there was a marked contrast, both in the appearance of the buildings and in that of the farms themselves.

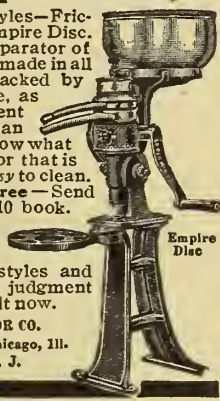
Now, was this the result of the work of the silo, or was the silo itself the result of the generally pros-

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perous conditions? This is a question to which there can be but one answer. The silo is a splendid aid to farm success. It comes before prosperity, not after it. The man who has a silo can keep almost as many cattle again as the one who has none and he can make those cows pay him better. We can see how this is the natural result.

Take it along in the summer, and grass in the pasture gets dry and hard. There is not nearly as much substance to it as there was earlier in the season. Unless something is done the cows will drop off in their milk yield and away will go the chances for success for the season. Now, if the farmer has a good silo to fall back on he can keep up his flow of milk and keep more cows and keep them better than if he were dependent on the pasture alone.

So through the winter. It is hard work to get grass enough to keep much of a dairy without a silo. The silo places it within the possibilities of the farmer to keep more cows and to get more from them than he could without the silo.

Then, too, grain is costly in these days, whether we grow it on our own farms or buy it. The silo cuts the grain bill down splendidly and thus adds to the farmer's bank account. The first cost of a silo is most always what stands between the farmer and building one of them. But if he puts up a good one it will last for many years without any expense for



VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

SWELLING.

I would like to ask a question through your paper in regard to a horse that I have. He is seven years old, weighs 1,250 pounds and has been thrifty all his life. About one month ago he seemed to get drowsy while plowing, and on examination I found a large ridge on his breast reaching almost from his forelegs to his sheath. I had him bled and thought he would get along all right, but his appetite has been failing and he is falling off in flesh and seems drowsy all the time. I had been feeding corn and sheep oats for some time previous to his ailment and have not worked him since then. Will you tell me what to do?

Dissolve half a dram of quinin in two drams of tincture of iron and give this dose twice daily in a pint of warm water containing two or three ounces of whisky as a stimulant. Feed whole oats, bran and hay. Work the horse lightly in the cool of the day.

RUPTURE.

I have a black colt two months old, that has a small lump at the navel about the size of a walnut. I just noticed it the last week for the first time. When the lump is pushed up it seems as if there is an opening clear up in the belly. Is it a rupture, and if so what can be done for it?

These small umbilical ruptures generally disappear in time without treatment, but to hasten that blister the place once a month with a very little cerate of cantharides; or rub iodid ointment two or three times a week. A leather truss applied over the rupture also is a favorite treatment with farmers.

SUSPICIOUS CASE.

Will you, through the columns of your paper, give me a remedy for my mare? She is ten years old, sorrel, and had scratches in hind foot some three or four months ago. I tried greasing with lard containing carbolic acid, then used a wash of chlorid of zinc, but nothing seemed to do much good. The hock joint swelled and she was very lame and, although I fed her five quarts of oats twice a day and all the good hay she would eat, she lost in flesh right along. Several little bunches appeared around the hock when they broke and discharged a bloody matter (very little). She looks better now and can walk fairly well, but the joint is swollen and very stiff. Is there anything I can do for her? I have accurately described conditions as requested.

As the symptoms and history in this case so strongly suggest farcy, the skin form of glanders, which is incurable and necessitates destruction

repairs. There is always a temptation to build a cheap silo. That is the poorest kind of economy. Anything cheap is always expensive. It wears or gives out soon and we are compelled to go all over it again.

E. L. Vincent.

BLACK AND WHITE.

The color marking of Holstein cattle is entirely a matter of personal preference and receives no official recognition, as the following statement, made by Mr. Frederick L. Houghton, of the American Holstein-Friesian Association, clearly indicates:

A thirty-two-pound cow of dark markings brings as much money as if light marked, and vice versa. Dark bulls used on grade cows are believed to get calves darker than the sire. This accounts for the preference of beginners for white bulls to grade up with. Evenly-marked cattle have the preference, if any do. Don't buy Holsteins with black legs, or with black switch, for such are not typical of pure breeds.

There is, however, a growing prejudice upon the part of many breeders against the darker colored animals. This prejudice frequently results in discrimination in favor of the light colored animals. All things being equal, the light marked individuals regularly command the highest prices whether sold at private treaty or in the public sale ring. Of course, color markings are not as seriously considered when animals have high records to off-set this fancied or real objection.



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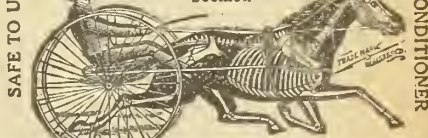
(Ophthalmia), Cataract
and Conjunctivitis
Shying horses all suffer from diseased eyes.



A trial will convince any horse owner that this remedy absolutely cures defects of the eye, irrespective of the length of time the animal has been afflicted. No matter how many doctors have tried and failed, use "VISIO" under our GUARANTEE. Money refunded if under directions it does not cure. \$2.00 per bottle, postpaid on receipt of price. VISIO Remedy Ass'n, Dept. D, 1933 Wabash Av., Chicago, Ill.

NEWTON'S HEAVE COUGH, DISTEMPER AND INDIGESTION CURE

The Standard Veterinary Remedy.
20 years sale. Send for booklet.



Makes the horse sound, stay sound
DEATH TO HEAVES

The first or second \$1.00 can cures. The third can is guaranteed to cure or money refunded. \$1.00 per can at dealers, or express prepaid.

THE NEWTON REMEDY CO., Toledo, Ohio

VETERINARY INSTRUMENTS
(Trocars, Hooples, Impregnators)
FOR Horses, Cattle, Swine, Poultry, etc. Received only Award World's Fairs, Chicago, St. Louis. Write for Illustrated Catalog. HAUSMANN & DUNN CO., 392 South Clark St., CHICAGO.

BINDER TWINE

Farmers wanted as agents. August Post, Moulton Ia.

POULTRY

THIS department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

COMMON SENSE IN HANDLING BROODERS.

To the Editor of The Homestead:

Was there ever, I wonder, another luckless wretch who was up against it as many times as I have been? After using a small incubator a couple of years I began to realize what I should have known at first: that the same oil and attention necessary to care for the small machine, if given to a larger one, would result in twice as many chicks, though this would, of course, necessitate a brooder. After looking carefully through the advertisements of a favorite journal I finally decided in favor of one that impressed me somewhat more favorably than the rest. I wrote the company asking in particular if the brooder were suitable for outdoor use, as I had no building that I could use for it.

A friend asked me not long since in regard to purchasing a brooder, "Would you get a smaller indoor brooder and place it indoors, or get the larger and more expensive outdoor brooder and leave it outside?" From the very depths of my conscience I emphatically advised her to get the big outdoor concern and place it under shelter. Well, the answer to my inquiry came promptly—much more so than the coveted new outfit. The manager solemnly informed me that it could be used indoors or out; in fact, it was an ideal, all-round, all-purpose affair. The deal was closed. At the end of three weeks my new possession arrived. It is no more than just to say that the incubator was a very creditable machine, but that brooder! It was a rather small, one-apartment affair, heated by a pipe, beneath which was a hover to slide in, and which was so low that a chick could scarcely creep under it. In one corner was a small circular, paint-splashed glass that gave only light enough to cause the little creatures to crowd into that particular corner. There was no place to scratch, no ventilation and not much of anything else. The one redeeming feature was the fact that no fumes from the lamp could escape and reach the chicks. I was plainly informed in chick language that they were not going to stand for any such conditions, and a wholesale reform was evidently in order.

In the loft of one of the outbuildings on the tenant farm was a set of wagon-bows that a young couple had used in coming from Kansas. These were nailed to six-inch boards and covered with a waterproof canvas with the open front facing the east. The brooder was carried to this shelter, the hover consigned to the garret and the lamp started. Warm, dry sand was placed in the floor of the miniature house, and over this a thick covering of chaff from the horses' mangers. Chaff was also thrown outside the brooder by the basketfull. As usual they were fed chick feed for a couple of weeks, supplemented by grass, and occasionally the boys would dig a fresh sod with worms that would delight a chicken second only to a boy going fishing. The little rascals would get hold of either end of his wormship and chase 'round and 'round their "house," tumbling over and over through their chaff and growing stronger and more vigorous every day. In a short time they were hopping over their enclosure and it was interesting to watch them. They would stray off in small groups and

then scurry back to their home. On the cold, rainy mornings (and we have surely had many of them the last few springs) I would pour a pan of coal ashes, direct from the stove and still warm, in front of the brooder before opening the door. What a rest to see the contented little downy balls, like so many bees. Many were the times that I would drop down on their brooder watching their antics, while the rain beat against the canvas and the breakfast dishes waited in the kitchen. Minnie G. Stearns.

SUCCESS OF WOMEN FARMERS.

(Continued from page 8.)

I try to employ help that need no 'boss' and try to have them realize that much is depending on them, consequently we never have any trouble and my men try very hard to do things for my interests. They help me and I help them. When I can do anything to help them out of a close place I always do it. I have never spoken a cross word to any employee.

"Women to succeed in farming must not be afraid of getting their hands soiled. Cold cream comes cheap; better get into the work and use the cosmetics if necessary, because I think no woman should neglect her personal appearance."

Mrs. Watson is a farmer-employer, while typical of the other class of farmer-workers is Mrs. Hester E. Pinkham, of Farmington, N. H., who, at the age of forty-three and weighing only 110, operates single-handed, with the exception of one hired man, a fifty-five-acre farm, which she bought at auction in the spring of 1907. Mrs. Pinkham was brought up on a farm and is able, she declares, to do a man's work in all departments of farm work, except holding the plow. She has the skill of a man in wielding the ax and scythe and can do as much as any man in working the cross-cut saw, which she uses in felling trees. She does not disdain to use the hoe in hoeing time or to do her share of whatever work needs to be done around the farm, rigging herself out as a farm laborer in a complete suit of overalls and jumper.

"I discovered the greater convenience of men's clothes quite by accident," she says, "and at once I decided to wear them when doing any kind of outside work on my place. I was storing hay in the barn with skirts on one day last summer and found I could not avoid treading on them and getting thrown. I hit upon the idea of wearing overalls and had no more trouble after that in handling a load of hay. I have continued to wear men's clothes since on the farm. People laugh at me, I know, for this and for driving into town with a load of farm produce or wood, but I don't care. My work is honorable and I believe in dressing the way most convenient for it."

The farm was knocked down to Mrs. Pinkham at \$525. She expected to get \$1,000 worth of timber, but was agreeably surprised later, on having an experienced lumberman make an estimate of the value of the thirty-five-acre wood lot, to find that she had \$1,500 worth of merchantable timber, and young growth which would double in value in ten years. The farm has a large two-story house, barn and sheds.

On about twenty acres of cleared ground Mrs. Pinkham raised last season \$275 worth of hay, corn, potatoes, pumpkins, beans, turnips and squashes. In every part of the work, except the plowing, she did her share with the hired man. She spread the stable dressing, harrowed the plowed ground, sowed, planted, worked the cultivator, drove the mowing machine and helped harvest the hay and tillage crops and store them.

Mrs. Pinkham's success in raising swine is unusual. She breeds from

LEGHORNS.

High Quality Fertile Eggs for Breeders
Spring Valley Dairy and Egg Farm.
Chas. G. Jackson, Prescott, Iowa, specialty breeder world's leading egg strain thoroughbred R. and S. C. White Leghorns. Satisfaction guaranteed.

S. C. B. LEGHORNS
240 Egg strain; Iowa State Show winners, 1909; scoring to 94%. Eggs balance season; 30, \$1.25; 100, \$3.50; 200, \$6.50. Orlando Jacobs, Mediapolis, Ia.

S. C. Brown Leghorn Eggs
From State Fair winners, \$1 per 15; \$1.50 per 50; \$3 per 100. Mrs. Will Michael, Selma, Iowa.

Rose Comb B. Leghorns exclusively. Eggs for hatching, \$3, 100, balance of season. Roush duck eggs, F. Bowman, R. G. Eldora, Ia.

S. C. B. Leghorn Eggs from farm range; \$1 per 25; \$3 per 100; \$5 per 200. Address JOHN M. HALL, Williams, Iowa.

Eggs for Sale From my pure-bred Rose Comb Brown Leghorns, \$3 per 100 eggs. Carey R. Jones, R. 2, Iowa Falls, Iowa.

S. C. White Leghorn Eggs 75c. per sitting; \$3.50 per 100. Address John C. Miller, R. 2, Harlan, Iowa.

BRAHMAS.

Ottumwa POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

LIGHT BRAHMA Eggs for hatching; 30 for \$1.25; 50 for \$2; 100 for \$3.25. Write at once to Mrs. J. M. Dries, Ashton, Iowa.

LIGHT BRAHMAS Eggs, \$1 per 15; all unfertile eggs replaced at half price. Stock for sale. H. F. Maditt, Afton, Iowa.

ORPINGTONS.

S. C. Buff, Black, White and R. C. White scored cks. S. Won hundreds of prizes. Eggs, \$1.50 up. Hens with baby chicks. Mating list. Dr. Evans, Legrand, Ia.

EGGS At half price now, from birds we imported this spring. Stock at bargain prices. PREWITT, Route 5, Onawa, Iowa.

MINORCAS.

S. C. BLACK MINORCAS EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$3 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

DOGS.

SCOTCH COLLIE PUPPIES FOR SALE—\$5 to \$10. Very best breeding, will make fine workers. Write us your wants. T. A. Stevenson, Shannon City, Ia.

SCOTCH COLLIE PUPPIES Several fine litters from our imported and trained stock. If you want a good driver or a handsome pet, write for our illustrated catalog. Hundreds of testimonials. Address GEO. T. UNDERHILL, KNOXVILLE, Ia.

Scotch Collie male pups, 3 months old, sable and white; priced worth the money—\$5. One good brood bitch in whelp. Will ship on approval. Address O. J. Early, Bristow, Ia.

STOCK COLLIES A few females ready to train left at \$5. Mrs. A. N. Bonnett, Birmingham, Iowa.

BARGAINS In Collie female pups, two to six months old, from registered heel-driving parents. C. H. Drake, Hazleton, Ia.

WE have a few good litters of Collie pups of excellent breeding now ready to ship. Get our prices before ordering. Leroy A. Hays, Knoxville, Iowa.

COLLIES—Bred to Ormskirck Sample, a trained dog of international fame. Fine pups of all ages; bitches open and bred. P. L. Savage, St. Charles, Ill.

Great Collie Sire Springdale Surprise, at stud. Young stock for sale. SPRINGDALE KENNELS, Cumming, Iowa.

registered stock only, the Chester Whites, the young of which she sells at fancy prices. Last spring Mrs. Pinkham had in her various pens eighty-four pigs and nine old hogs. She also raises sheep, cattle, chickens, ducks and Belgian hares. The hares netted her \$40 the past season.

Women are finding in farming a congenial, profitable means of earning a livelihood and providing for their declining years. There is enough romance and poetry in farming as it is practiced today to satisfy the craving of their souls, and tangible enough results in dollars and cents to make it worth their while. With a near-manila for thoroughness they are doing their full share to make farming still more remunerative. While thousands of men farmers are slow to adopt new machinery and to purchase and plant only the best, pedigreed seed, with practically no exceptions, women farmers are practicing what they have heard preached at farmers' institutes and farm-demonstration trains. They are making two blades of grass and two stalks of corn grow where but one grew before, and hastening the millennium of agricultural and industrial plenty.

—Farmers who want to improve their flocks of fowls by the introduction of Black Langshan blood should read the advertisement of Mr. W. W. Baskerville, of Earlville, Iowa, which appeared in last week's issue. This gentleman announces that during the remainder of the hatching season he will sell eggs at the extremely low price of fifty cents per sitting of thirteen, \$1 for twenty-six or \$3 per 100. These eggs are from pens of high-scoring birds coming from the best flocks to be found. Do not forget.

RHODE ISLAND REDS.

CLOSING-OUT SALE
OF S. C. Rhode Island Reds at summer prices, to make room for young stock. Reduction on eggs. Free catalog of valuable information. Winners at State Fair, 1909, and Omaha, 1910, only places shown. Both combs. Mrs. F. W. McIntyre, R. 5, Red Oak, Ia.

Rose Comb Cherry Reds 20th Century birds, selected eggs (fertility guaranteed), from high-scoring, good-laying strains. Farm range, 17 eggs, \$2; 50, \$5; 100, \$8. This ad. mailed with order brings 5 additional eggs. My birds better than ever. Orders filled promptly. Write for circular. W. W. Forbes, Box 710, Jefferson, Iowa.

EXTRA BIG-BONED R. C. R. I. Reds, red to the skin, high-scoring stock; eggs 10c each; June 5c; July 4c; good hatch, good stock guaranteed. Osterloss Poultry Farm, Hedrick, Iowa.

EGGS at reduced prices. R. C. and S. C. R. I. Reds. Prices, one sitting, 75c; 50, \$2.25; 100, \$4; excellent layers. Mrs. T. A. Gough, Bristow, Iowa.

S. C. R. I. Reds Reduction on eggs. A few yearling hens at \$1. Also have a few cocks. Mrs. Sophia Rader, Laurel, Iowa.

S. C. R. I. RED EGGS 75c per 15; \$4 per 100. I. C. Welch, Bedford, Iowa.

PLYMOUTH ROCKS.

219-EGG STRAIN BARRED P. ROCKS

EGGS for hatching balance of season. Where taken from all pens, 15 for \$1.25; 30 for \$2; 50 for \$2.75 and \$4 per 100. Special mating, 15 for \$2; 30 for \$3; 50 for \$5; \$8 per 100. Don't make a mistake, but send to W. A. Hartman, Box 242, Winterset, Ia.

BUFF ROCK EGGS Half price after June 1st; 75c. for 15; \$2.50 for 50; \$5 for 100. L. L. Woods, GRINNELL, IOWA.

B. P. ROCK EGGS 25, \$1; 100, \$3. A few good cockerels for sale. Address ROBERT HUNT, EARLVILLE, IOWA.

EGGS From White P. Rocks. Fishel strain; \$1 per 15; \$1.50 per 30; \$4 per 100. Hens, \$1 each. Mrs. E. C. Turner, Route 1, Griswold, Ia.

EGGS From Barred Plymouth Rocks. Heavyweight fowls a specialty. Write for prices. L. D. Wells, Morrisonville, Ill.

PURE bred W. P. Rock eggs for sale from scored birds. Special price, \$1 per 13 eggs. Also a few fine cks. White Rock Poultry Farm, Earlville, Ia.

WYANDOTTES.

CHALKY WYANDOTTES WHITE

We pay express. Circular free. CEDAR LAWN POULTRY AND STOCK FARM, Fairfield, Neb.

WHITE Wyandottes of quality. This proves it. Have won 15 firsts, 13 seconds, 11 thirds, 10 fourths, 9 fifths, in six shows. Stock for sale. Eggs in season. For ref., Slater Bank. J. M. Erickson, Slater, Ia.

SILVER WYANDOTTES Eggs, 15 for \$1; 40 for \$2; 100 for \$4. Twenty-three years a breeder. O. M. Healy, Bedford, Iowa.

Buff Wyandottes Eggs \$1 per sitting; \$2.50 per 40; \$5, 100. Address MRS. GRANT DAVIDSON, Corwith, Iowa.

For Sale S. L. Wyandotte eggs for hatching, \$1 per 100, or 65 cents per 15. Write to CHAS. W. FARIS, IOWA FALLS, IOWA.

White Wyandotte Stock for sale; good stock at right prices; satisfaction guaranteed. W. S. Gregory, Route 2, Keota, Iowa.

BABY CHICKS.

S. C. W. Leghorn baby chicks, \$12.50 per 100; \$7 per 50. Guaranteed good, live, strong chicks at express office. Highland Poultry Farm, Hazleton, Ia.

DUCKS.

Mammoth Pekin duck eggs from good, large-sized ducks; drakes 10 lbs.; \$1 per 13; \$6 per 100. John M. Hall, Williams, Iowa.

MISCELLANEOUS.

COLUMBIAN Wyandottes, R. and S. C. R. I. Reds, Barred P. Rocks, Blue Andalusians. Blue ribbon winners. Stock and eggs for sale. Write for winning mating and prize booklet. N. Buffalo Poultry Yards, J. A. Arends, Prop., Buffalo Center, Iowa.

S. C. R. I. Reds. Eggs from two selected pens, S. mated for exhibition quality, and heavy winter layers. Eggs from flock on free range. Have some extra quality W. Orpingtons and S. C. W. Leghorn eggs. Mating list free. Dr. F. D. Miner, Hazleton, Ia.

S. C. BUFF ORPINGTON and Buff Rocks, also Light Brahmas, scoring 92 to 94, best of matings, all birds are big high-scoring. Eggs \$2 for 15, half price after June 1st. Prices quoted on 100 lots. I. E. MINER, BUSSEY, IOWA.

EGGS S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility results and highest fancy attainable. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

S. C. B. LEGHORN EGGS \$3.50 per 100; 15, \$1.50; 50, \$4.50; B. P. Rock, 75c. for 15. J. M. Craig, Route 1, Danbury, Iowa.

THOMPSON'S Ringlet Barred Rocks, S. C. Rhode Island Reds; 15, 75c; 100, \$3. Indian Runner ducks, 13, \$1; 100, \$4. Address Mrs. C. H. Matteson, Decatur City, Iowa.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50, 15 eggs; incubator, \$5, 100. Also Fishel strain W. Wyandotte eggs, \$1.50 per 15. Smiley Slope Poultry Yards, Oskaloosa, Ia.

ROUSEN Pekin, Muscovy ducks; Polish, Houdans. Buff Rocks, White Wyandottes. Eggs, 15, \$1.50. L. C. Coleman, Route 2, Box 91, Mt. Pleasant, Iowa.

EGGS—All varieties; Leghorns, R. I. R., Orp's, Wyandottes, Minorcas, Rocks, ducks, geese, turkeys. Cat. free. Wm. Koell & Co., Box 81, Hampton, Ia.

White Wyandotte and S. C. Buff Orpington eggs for hatching; 75c sitting or \$4 per 100. Mrs. J. E. Le Gassick, R. 2, Earlville, Ia.

SILVER Laced Wyandottes; eggs \$1.50 per 15; \$5 per 100; Pekin ducks, \$1 per 11. Mrs. F. R. McLaughlin, Manning, Ia.

EGGS From pure-bred W. P. Rocks, Toulouse geese and M. B. turkeys at farmers' prices. Write to L. E. Morgan, R. 4, Ames, Ia.

Don't Let Your Dog Die
from Distemper. Go to your druggist—get a bottle of **CRAFT'S DISTEMPER REMEDY**. Money back if it fails. Nothing so good for Distemper, etc., in Horses, Sheep and Dogs. At dealers or send to us and get 3 Free Veterinary Books. Wells Medicine Co., 18 Third Street, LaFayette, Indiana.



LEGAL DEPARTMENT
 THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

COUNTY DRAINAGE DITCH—DAM-AGES.

Mr. A. C. Hack, New Canton, Ill.—I have a farm which is divided by a ditch established by the county court of Pike county, Illinois, and controlled by three commissioners. A special tax has been levied to make the ditch deeper. (1) Can I get damages for the ground thrown out of the ditch on my land, and how will I go about it? (2) It will be impossible for me to cross the ditch with a wagon and team, without a bridge. Can I compel the commissioners to build a bridge?

Answer.—(1) When the ditch was established, there must have been a condemnation of right of way for it, and damages allowed to the owner of the farm. The right of way taken, most likely included ground enough on one side or both sides of the ditch itself, to afford ground enough upon which to throw the dirt in making the ditch deeper. If the dirt is thrown on the right of way taken, you can get no damages on account of it, but if it is thrown on your ground not covered by the right of way, you can recover damages by bringing a suit in the district court for that purpose. (2) You cannot compel the commissioners to build a bridge across the ditch. The original damages allowed are supposed to compensate the owner for the expense of constructing and repairing necessary bridges.

DRAINAGE OUTLET—DEPRESSION.

A Subscriber, Cass County, Iowa.—Where a depression crosses the line between two farms, in which water runs during rains and in wet weather, can the owner of the upper land lawfully discharge water from his tile drain in such depression, causing it to flow upon the lower farm?

Answer.—The law upon the subject in Iowa is as follows: "Owners of land may drain the same in the general course of natural drainage, by con-

structing open or covered drains, discharging the same into any natural water course, or into any natural depression whereby the water will be carried into some natural water course, and when such drainage is wholly upon the owner's land, he shall not be liable in damages therefor, "to any person or persons, or corporation."

VACATING STREETS AND ALLEYS.

Mr. Spencer Smith, Van Horne, Iowa.—Our town council has passed an ordinance vacating certain streets and alleys. (1) Can the council sell the streets and alleys so vacated? (2) If so, must the sale be public? (3) Can the council lease the ground of the streets and alleys so vacated, to private parties for pasturage or cultivation? (4) Can the public use them for road purposes?

Answer.—The council has power to vacate streets and alleys, and dispose of the ground by lease or sale to private parties, and such disposal is not required to be by public auction. When streets and alleys are vacated, the land does not revert to the lot owners or the original owner of the land. The ground may be used by the public for road purposes before disposed of, by permission of the council, but not otherwise.

TELEPHONE COMPANY—RIGHT OF WAY.

Mr. Jas. Rasmussen, Sterling, Colo.—I am living on a homestead in Colorado. There is a telephone line running through my claim from the southwest corner to the northeast corner, which is a great nuisance to me in cultivating my crops. There is a road on each side of my claim, on either of which the telephone company could establish its line. Can I compel the company to move its line off my claim?

Answer.—If the telephone company has not condemned a right of way across your land for its line, it is simply a trespasser, and you can sue it for damages. If you should do this, the telephone company will probably commence proceedings to condemn a right of way, in which case you will be allowed damages—or the company may prefer to move its line to the public road, which it can do without paying damages for right of way.

NOTABLE GATHERING OF BREEDERS.

When Mr. Thomas Johnson, the well-known Short-horn breeder at Columbus, Ohio, was in Europe last year he was very much impressed by the social friendships existing among the breeders of Great Britain and the pleasant gatherings in which they participated. Believing that similar gatherings here would be beneficial he recently issued invitations, to the number of some 2,500, to breeders and stockmen in all sections of the country asking them to gather at Oakland Farm, Saturday, June 11, to get better acquainted, enjoy a good dinner and listen to talks by some of the strongest men connected with the live stock interests of the country. The idea was a popular one and met with a hearty response. Despite the lowering weather conditions over a thousand guests assembled at Oakland Farm. The majority, of course, were from Ohio, but there was a liberal sprinkling from Pennsylvania, Kentucky, Michigan, Indiana, Illinois and Iowa, and all present entered heartily into the spirit of the occasion.

Under a large tent tables had been prepared for a thousand guests and every seat was filled. After the dinner, which was up to the "Johnson" standard in every way, Mr. B. O. Cowan, assistant secretary of the American Short-horn Breeders' Association called the assemblage to order and announced the program. Governor Harmon, of Ohio, had been listed for an address of welcome, but at the last minute was compelled to send his regrets. Addresses were made by President Thompson, of the Ohio State University, Dean C. F. Curtiss,

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

REAL ESTATE.

NEW YORK LAND—260 acres of good level land with fair buildings, only 2 miles from railroad; price only \$4,000 to a quick purchaser; also many other farms at from \$15 to \$50 per acre. We have farms at from \$10 to \$65 per acre, well located with excellent buildings and very productive level land that will compare in every respect with farms through the Central West at from \$150 to \$200 per acre. For particulars write Lewis Farm Agency, Candor, Tioga County, New York.

WELL IMPROVED corn land, wheat land, dairy and stock farms, 30 miles from the Iowa line in the very best part of Southern Minnesota at prices ranging from \$5 to \$50 per acre. For the quality the prices are cheap and terms are easy. Save two or more agents' commissions by dealing direct. Write for detailed descriptions to B. F. McGregor, Mapleton, Minnesota.

FOR SALE—350 acres in Henry County, Missouri; black limestone and loam soil; will grow anything raised in the cornbelt; want to sell to settle estate. Deal direct with heirs and save money; a real bargain at \$50. C. E. Lankford, Creighton, Missouri.

IMPROVED EIGHTY—Three miles from Emporia, price \$5,000. Improved 960-acre ranch, three miles from Emporia. 10-acre fruit ranch, two miles from center of Canon City, Colorado, price \$6,000. Hurley & Jennings, Emporia, Kansas.

160 ACRE fine farm, no rock, five miles good town, nine miles from Garnett, eight room house, large barn, water in abundance. Want quick money. Send for description or come. Price, \$5,000. J. W. Bronston & Son, Garnett, Kan.

130 ACRES—10 room house; barn with 24 cow stalls; hen house; granary; fruit. \$2,400 to a quick buyer. Will include mower, rake, corn planter, all tools and crops. Hall's Farm Agency, Owego, Tioga county, New York.

IMPROVED FARM, Grant Co., S. D. 480 acres, practically all tillable; part under plow; 7 room house; large barn; \$35 per acre. P. I. Neister & Co., Sioux Falls, South Dakota.

640-ACRE farm for sale. Cement block house, frame barn, good water, buildings nearly new; good dairy farm; telephone and daily mail. Eric E. Shultz, Tryon, Neb.

of the Iowa Agricultural College. Dr. H. M. Brown, ex-president of the Ohio State Board of Agriculture, Col. H. L. Igleheart, of Kentucky, and Secretary Sandels, of the Ohio State Board of Agriculture. The talks of these gentlemen were all along the lines of advanced agricultural and live stock husbandry and were an inspiration to those present as the matters were handled as only they can be handled by men who are thorough masters of their subjects. We regret that we cannot here reproduce their speeches in full. They held the complete attention of the vast crowd from first to last, and were received with every evidence of appreciation and approval. At the conclusion of these talks demands were made for Mr. Johnson, who had modestly kept himself in the background all through the affair, and he responded briefly, thanking all for their presence and participation in the affair. When Mr. Johnson had finished the audience gave him a rising vote of thanks for his excellent and inspiring entertainment, and the wish was freely voiced that such meetings might be duplicated in many parts of the great central West.

The affair was one of the most remarkable and unique in the annals of the live stock industry and the highest praise is due Mr. Johnson for its inception and successful carrying out of the event. The note of commercialism was entirely obliterated. It was purely a social gathering, fathered and developed by a broad-gaged and progressive gentleman who believes there is something else in life beside selfish interests and who backed up his belief in a practical and convincing manner. Old friendships were renewed and new ones established among those in attendance, inspiration and instruction were received at the hands of the competent and practical gentlemen who addressed the assemblage. Business "talk" was entirely tabooed on this occasion and the effect of the gathering as an incentive toward better conditions on the farm, improved live stock and closer and more friendly social relations among the breeding fraternity cannot fail to be far-reaching. Not only the thanks of those present, but of all breeders and progressive farmers everywhere, are due Mr. Johnson for his magnificent and successful effort in their behalf. It is sincerely to be hoped that this event will be followed by others of a similar nature in every section of the country. Mr. Johnson has set the breeding and agricultural fraternity in general an example which they can all well follow with both profit and pleasure.

REAL ESTATE.

ARE YOU looking for a home? If so, don't buy before seeing a copy of the Real Estate Journal. It has nearly 4,000 farms, city property and stocks of goods advertised in it, and reaches 50,000 readers each issue; advertising rates 15c per line. Send 10c in silver or stamps for two months' trial subscription. Farm and Real Estate Journal, Tracer, Iowa.

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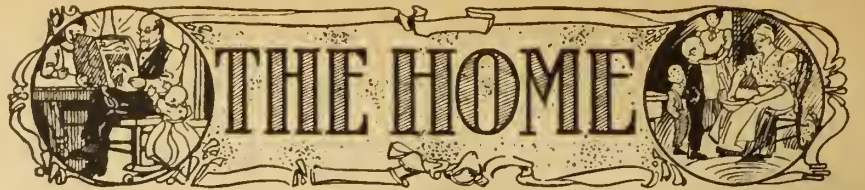
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WITH THE EDITOR.

The train was three-quarters of an hour late and to Mr. Lawson, awaiting the coming of daughter Mary who had not been home since her marriage nearly a year before, the time was very long in passing. At last the welcome scream of the approaching engine was heard. A few minutes later with Mary's trunk in the rear of the democrat, father and daughter were on their way to the farm.

The sun had set some little time, soft twilight shadows were creeping over the world, birds in the hedges were settling for the night, woodsy odors lay upon the evening breeze which played softly about the young wife's face and lifted stray locks loosened during the journey from the city where she had gone a bride. She had set out early in the morning and the day had been hot. The relief of the cool air, the sweet smells and the sight of the green fields and growing things were delightful to the girl who had been heartsick for her country home many, many times since she left it.

"Oh, daddy, but it is good to be going home," said Mary snuggling up to her father as she spoke.

"Well, I expect your mother is thinking it's good that you're coming home. It's been hard for her to give you up, daughter."

"I have often thought of that, father, and wished, oh, so many times, that I could be with you all. If only Roy were a farmer and we had land somewhere here how lovely it would be."

"I've thought about that," replied the father. "Do you think Roy would consider going on land?"

"I don't know whether he is ready for it just yet, daddy, but I believe he'll come to it. You see it's like this: Although Roy has a fair salary for a young man, living is so high it takes it all to keep us. By the time we pay rent and car fare and living expenses there's very little left."

"Well," remarked the father, "if he realizes that now, a few years will see him thinking of getting back to the farm."

"That's what I think. And when he comes for me and sees the fields and the crops and the orchard and hears you talk about the money you are making—mother wrote me how well everything is going—I think he will be less keen about going back to town. We are in a little flat, you know, and while it is convenient and cozy it is not like home somehow. I've thought sometimes of suggesting that we move out to the suburbs and get a place with a bit of garden, but it would make the day so much longer if Roy had to start an hour earlier in the morning and come home an hour later at night that I've not been able to make up my mind to it."

The father gave his girl a tender look as he said, "Mother has been afraid it would be hard for you."

Mary's voice trembled a little as she replied, "It has. If Roy were not so dear and so good I do not believe I could have borne it. I tell you, daddy, the city is awfully hard on you if you've been used to the open country, a big farm and a big house and all the things that go with them. It's a month since we've been able to have a poached egg, real cream is so dear we can't afford to buy it, and every little bit of green thing costs like everything. Why if I make soup I have to pay a nickel for a little soup bunch, just for an onion and a sprig of parsley and a carrot or so. And lettuce and radishes run away with ever so much money. I tell you what it is, daddy, I never half appreciated all the good things we have right on the place. I see now why it is so much easier to save money in the country than in town."

We have to pay out so much more just to have shelter and food."

"If Roy sees things half as plainly as you do, daughter, we'll have you back before long, I think. And when the time comes you may count on your mother and me to give you a cow and a horse, a few pigs and some fowls to start you."

"Oh, daddy, you dear, I must give you a hug right now, for I believe that with a start Roy might think of making the change before very long. I'll write and tell him tomorrow. Who knows but that now I am here I may be able to stay."

(To be Continued.)

AMONG OURSELVES.

There is blue in the sky, and green in the grass,
The wind's in the south, and the sky is red;
Fair and dear are the long, still days that pass
As swift as the dew on the clover spread.

The fragrance of flowers and budding trees,
A trill of song from some unseen bird,
The sudden touch of some passing breeze—
Oh, pity the heart which they have not stirred!

When the rose is queen on her mossy throne,
And we feel the pulse of the world astr—
Pity him to whom summer comes alone
As a passing date on a calendar!

—Ninette M. Lowater.

One of the things we all should do is cultivate the seeing eye and the hearing ear that we may more fully enjoy God's out-of-doors. If we would but do this summer would never be to us "a passing date on a calendar," rather we would be of the company of those who are stirred by the fragrance of growing things, the songs of birds and that subtle something which stirs the senses of the poet and leads to song such as Mrs. Lowater brings to us.

We have done giving "Nameless" advice, but a little message from Mrs. F. V. H. comes in nicely as a sort of aftermath:

Nameless says that she lives with her parents seventeen miles from any town and that there are no young people in the neighborhood, so she has no amusements and nowhere to go and, consequently, knows nothing but work. Now I wish I knew your real name and address! I would insist that you come and live in our neighborhood. We have lots of boys and girls around here who would gladly welcome you. My husband and I give socials and go to parties with the young people. If you lived here you would wonder that you ever fell in love with the old "Gray Beard." Please let us hear from you again through "Among Ourselves."

One thing I wish we Among Ourselves could do more than we do. It is encourage social life. Do let us have more talk of picnics and parties and celebrations of one kind or another. Won't some of you who remember birthday and other anniversaries write about them? And let us hear of little church entertainments and neighborhood gatherings. We could create a new interest along this line and not only increase our own happiness, but prevent the loneliness which leads to stories like that of "Nameless."

Peggy D. says "Missourian's" burning letter moves her to speak again; we are moved to hear what she has to say:

I do not think "Ranchman" deserved this "raking over the coals" and I do not think "Missourian" should understand life as it is if she has daughters to bring up. If the faded and work-worn wife is true and sweet and lovable she still holds the highest adoration of her husband, but the best of men, down in their hearts, love to gaze upon youth and beauty. "Missourian" should remember that men cannot be judged by the same criterion as women. I would say, let us wives understand this peculiarity of mankind and do not allow ourselves to become faded and old. I do not believe in waiting on our husbands and chil-



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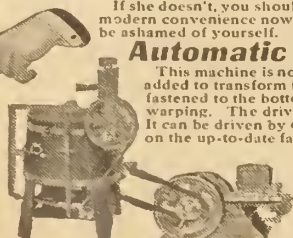
If she doesn't, you should have no riding plow, manure spreader, or other modern convenience now regarded as a necessity on the farm. You ought to be ashamed of yourself. Go today and buy her an

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This machine is not a hand-power washer with certain attachments added to transform it into a power washer. None of the machinery is fastened to the bottom of the tub, to be drawn out of alignment by warping. The driving belt is on the left side, entirely out of the way. It can be driven by one of the small gasoline engines now so common on the up-to-date farm.

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dren until we have become worn out. They will never appreciate our sacrifice and they will think more of us if we demand a reasonable amount of "waiting on" from them. The way to keep the love of the average husband is not by slaving for him, but by cultivating health and beauty and by improving our minds. A man wants to be proud of the appearance of his wife. He cares more for this than for the amount of work she can turn out in one day. And, "Missourian," let me add that the man who should turn on the gas is he who expects a packhorse in place of a wife, for he is the true brute. But thank goodness! he is a scarce article.

Peggy D. is evidently a sensible woman. The chances are that she will keep her husband so interested in her that unless he is of a very roving disposition his attentions will not wander.

Another good letter along this line we shall hold for next meeting in order to permit of hearing from Mrs. Sara Mills, who believes in the naming of farm homes:

Since I was a child, I have fancied pretty and suitable names for country homes. I named my childhood home "Woodlawn" because there was such a fine grove of young timber and a few large and towering trees between the house and the road. And when we built us a new farm home here, about three years ago, I had a kind of private cornerstone laying and christened the new home "The Retreat." That seemed an appropriate name, since the house was to be built in a dense woods, 150 feet back from the mail route, with only an opening out to the road. I have felt so proud of my new home and its name. I have had the name added to my address on all letters and most other matter, and long before there was any sign of a house on the site except the building material, my mail came to "The Retreat." One man said, jokingly, that if my mail had no other address on it I would get it just the same, because the postal authorities have seen it so often now that they know where it is. No, we may not always live up to a beautiful and suggestive name, but it adds to the dignity of farm life to take enough pride in our calling to give each home a distinguishing and suitable name and try to make it as nearly as possible what the name suggests.

Mrs. Mills puts the matter very nicely. Let us hope her talk will stimulate the naming of farm homes; also that she will be able so to adapt life and environment that the name of her home will be an all-around description of her family's abiding place.

A new subscriber comes with both hands outstretched, one to give and on to get:

I wish to ask advice about raising cauliflower. This is my first year, my plants look fine and are just beginning to head. I would like to know when to tie them up, after or before the heads are fully developed. A remedy for ants, let me say I have used walnut leaves with good success. Alum, pulverized and sprinkled under the papers in cupboards, is also good.

About the cauliflower treatment—don't wait. Other ant remedies have been recommended. We shall have them next time.

DRESSMAKING—NO. 82.

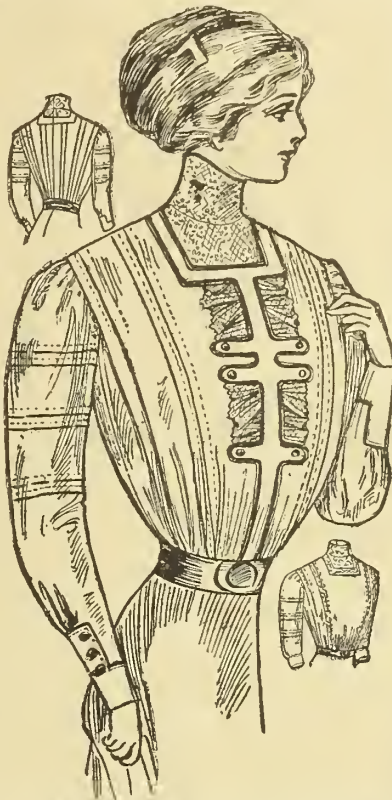
[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a gown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

The blouse that is trimmed with frills at the front makes one of the features of the season. This one can be treated in that way or left plain as liked. In the illustration it is made of messaline and rat-tail cord is applied over the neck and front edges to give a distinctly novel effect, the frills being arranged over the front and their edges concealed by the braid. There is a little chemisette of all-over lace, too, and the blouse is altogether an attractive one. It will be found equally well adapted to the entire gown and to the odd waist. Made without the frills and the trimming it becomes much simpler, as shown in the small view, and the sleeves can be cut off to three-quarter length and finished with straight bands. The waist is unlined and closed invisibly at the back and will be found appropriate for all the pretty thin muslins and various materials of the summer as well as for those of the present.

The waist is made with front and back portions and with the chemisette that it attached at the neck edge. The trimming is arranged on indicated lines. The sleeves are in one piece each, whether they are made full length and finished with the pretty shaped cuffs or in three-quarter length and gathered into straight bands. The quantity of material required for

the medium size is 3½ yards 24 or 27, 2¼ yards 32 or 2¼ yards 41 inches wide, with ½ yard of all-over lace, 1 yard of lace for the frills and ¾ yards of braid to trim as illustrated.

The pattern 6640 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust meas-

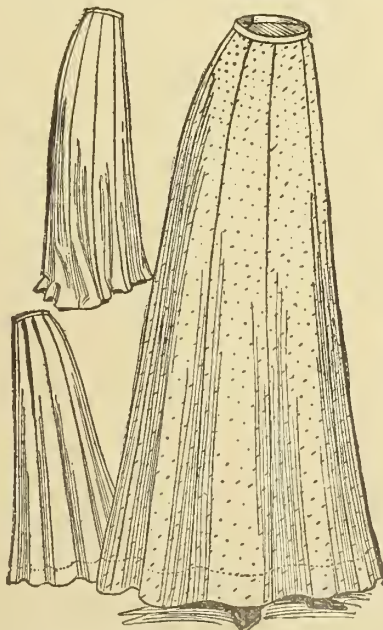


[6640 Fancy Blouse, 32 to 40 Bust.—To be made with or without Trimming at Center Front. With Long or Three-Quarter Sleeves.]

ure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

The plain skirt that is cut in many gores is always a comfortable and a satisfactory one for a great many materials. It is being much worn this season and cut in walking length is especially well liked for linen, cotton poplin and washable materials of the sort, for it launders with perfect success. The many seams give an effect of slenderness also and it is in every way desirable. When made long it becomes an excellent model for fabrics of a different sort and in this way is to be commended for silks and other materials of the sort that are the favorite ones for such use. This model is exceptionally well shaped and flares just sufficiently for grace and comfort. In the illustration it is made of fancy pique.

The skirt is cut in eleven gores. The fulness at the back can be laid in in-



[6639 Eleven-Gored Skirt, 22 to 32 Waist.—In Walking Length or With Train. With Inverted Plaits or Habit Back.]

verted plaits or the gores can be cut off and joined in habit style as liked. When walking length is desired the skirt is to be cut off on indicated lines.

The quantity of material required for the medium size is 9¼ yards 24 or 27, 6¼ yards 44 or 4¼ yards 52 inches wide when material has figure or nap, but if there is no up or down 4¼ yards 44 inches wide will suffice. The width of the skirt at the lower edge is 4 yards.

The pattern 6639 is cut in sizes for a 22, 24, 26, 28, 30 and 32 inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

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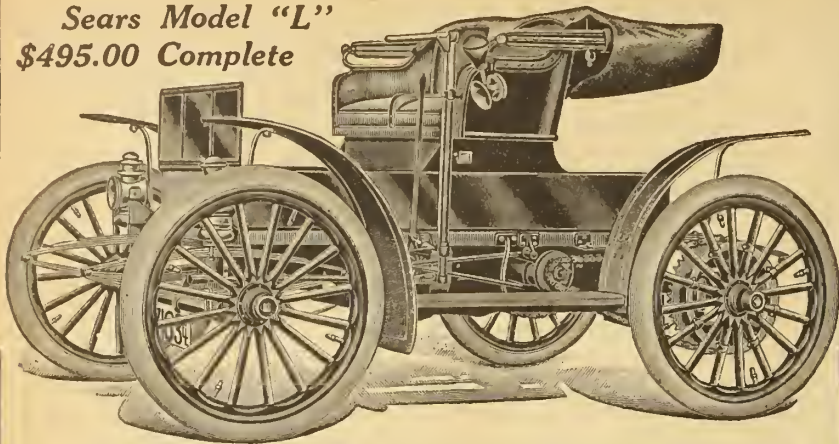
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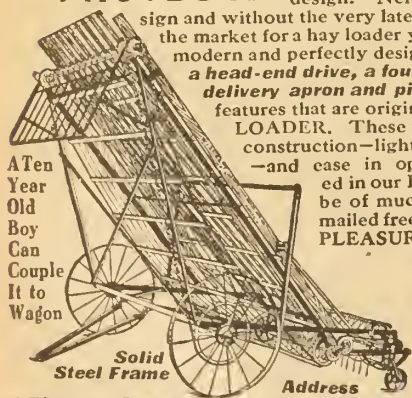
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The International Sunday School Lesson

SECOND QUARTER. Lesson XIII—Matt. XIII., 24-30; 36-43. June 26, 1910

PARABLE OF THE TARES.

Perhaps there is no parable of Jesus so fundamental as that commonly called the parable of the wheat and tares. It has been called a brief and simple moral history of the world. Here also is the ground question of the philosophy of all time relating to the origin of evil. And we are saved from all error concerning it by our Lord's interpretation.

There seems to be current a notion that somewhere in this world there is a reservoir of goodness—like that from which a city gets its water supply; and that there is also a reservoir of wickedness, which, like the interior of the volcano, is constantly erupting, and sending its streams of destroying lava abroad. Jesus corrects the notion. In this parable he plainly asserts that there is no existence of good or evil in this world apart from personality. Moral qualities have human souls as their only sphere. Virtue and sin root and grow, and bring forth fruit—in men. This Jesus asserts when he says, "The good seed are the children of the kingdom; but the tares are the children of the wicked one."

The good seed are the children of the kingdom. Those who with the meekness and docility of children have come to Jesus as to a teacher and master, and have learned of him, have had his kingdom of righteousness set up within—these have become the wheat with which the Lord has sown the earth. They may not be perfectly good—absolutely holy; there may be some admixture of evil; but there is a preponderance of good and a diligent rooting out of the evil. And in spite of all discouraging signs, the wheat increases more in the individ-

ual, and more and more in the world at large. The Master distinctly affirms this world to be his field. He has never relinquished it.

The tares are the children of the wicked one. So moral evil finds its root in the human soul; there it germinates, thrives, and bears its fruit. But as in the case of the saint, we do not need to assert perfect goodness; so in the case of the sinner we do not need to assert absolute and entire evil—only a dominance of evil which, if persistent, must of necessity become entire. As the saint gravitates towards heavenliness and heaven, so the sinner trends towards hellishness and hell.

As we look out into this world of ours, and see a thousand million human souls growing together as wheat and tares in this vast field—this age-long antagonism of virtue and wickedness, this dread and poisonous admixture of evil—we are ready to exclaim, in the language of the servants of the household: "Sir, didst thou not sow good seed in the field; from whence then hath it tares?" That is the age-long question. But it is speculative, and theoretical. Jesus dismisses it with the sad declaration, "An enemy hath done this." After a thousand volumes are written on the origin of evil, we shall just know as much of it as Jesus has told us here. "An enemy hath done it." That answer removes the origin of evil from God; but further it answers nothing, and we should rest satisfied. He who in any way so speculates as to trace back to God the occasion and ordination of sin, be it in phrase ever so cunningly concealed, has against him God's clear and pure word in the Scripture, as also in the conscience.



THE YOUNG FOLKS

The Game of Shopping.

The Chapins, led by Aunt Ruth, had just started a new game, when Doctor Hillhouse dropped in.

"May I play?" he questioned. "Oh, yes, do!" cried Bertha. "Take this rocking-chair, doctor, and I'll tell you how it goes. You say to me, 'I've been shopping,' and I ask, 'What have you bought?' Then instead of telling right out, you make each letter of the word the initial of another word. For instance, mother just said she'd bought 'a basket of odd knives,' when it was a book."

"Yes, I see," nodded the doctor. "It's Carl's turn now," spoke up Alice.

"I've been shopping," responded Carl.

"What did you buy?" queried Bertha. "Big red elephants and diamonds," was the prompt answer.

"Oh, bread!" said Bertha. "But who ever heard of a red elephant?"

Doctor Hillhouse guessed Bertha's "Dozen of lovely lilies," and then gave, as his own purchase:

"Horn of rare, sweet elecampane." Alice guessed horse, at the same time saying she thought it a queer thing to buy.

"It's a kind of a sweetmeat," the doctor explained, laughing.

Alice bought a "Darling, real English, sportive spaniel," and Aunt Ruth, "Some wafers, eggs and tender, early rhubarb."

It took Norton a minute or so to make these things into sweater. Then he gave, "Capital old whale," which his mother easily guessed.

"Didn't know they had whale shops," said Alice.

"Picture of Nathaniel Yates," said Carl.

"Pony!" exclaimed Bertha. "But who is Nathaniel Yates?"

"I'm sure I don't know," said her brother.

"This is the easiest game I ever played," said Alice. But when Doctor Hillhouse answered the usual question with the whirl of words, "Sideboard, table, oak chairs, kaleidoscopic instruments, neckerchiefs, gaiters, scarfs," she stared at him in dismay.

"Why you said them so fast," she faltered, "I couldn't get hold of anything."

"Isn't speed allowable?" The doctor glanced smilingly toward Aunt Ruth.

"The faster the better," she replied.

"Oh, that's fine!" cried Carl. "Saying the words slow makes it too easy. He said sideboard first, Alice, and then came table. And gaiters and scarfs were the last. S-t-g-s."

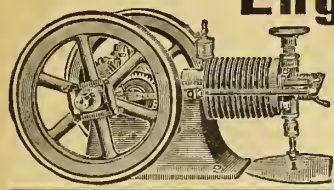
"Stockings!" cried Carl and Alice, in unison.—Youth's Companion.

Goes to Sunday-school.

I am a girl, thirteen years old. I go to school every day. My teacher's name is Mr. Cecil Way, of Tracy. We live eleven miles from our county seat (Oskaloosa). I have five sisters and three brothers. We live on a farm of 320 acres. My papa has six head of horses, four work horses and one driving team, and four head of cattle. My mama raises chickens every summer. We have one church here, the Union church. We have Sunday-school every Sunday and church every other Sunday. My sisters and I go to Sunday-school. Marie Covey.

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THIS department is edited by a gentleman who has long made the management of sheep a special study. He will be pleased to answer, in this department, all questions of general interest relating to the care of the flock and other kindred topics. Address inquiries, communications, etc., in relation to sheep to this office.

STOMACH WORMS.

American sheep men, perhaps, suffer as much loss from stomach worms as from any other one cause. Old pastures are credited with the propagation of this parasite, but it is safe to assume that insufficient feeding or other negligence is responsible for much of the loss occasioned by the pest. The flock which is kept in good condition—well-fed and duly protected—is practically immune to the attacks of the stomach worm.

Some flockmasters are enthusiastic in their claims for benzene and turpentine as remedial agents in combating this parasite and many others quite as staunchly disclaim the efficacy of these remedies. "Shepherd Boy" has the following to say upon the subject:

That worm powders are a benefit, especially as a preventive of stomach and other worms, when fed judiciously and regularly before the worm has taken a firm hold upon its victim, there is no doubt. There are a number of worm powders upon the market, but which has the most virtue it is difficult to say.

It might be reasonable to suppose that worms are created in the stomach and bowels in consequence of a morbid state of those organs, for where flocks are properly fed and cared for this morbid state does not usually exist, and the worm is conspicuous by its absence. That skilful feeding is the best preventive of trouble from the stomach worm the writer is fully convinced.

Vetch is not only a first-class forage crop for sheep, but undoubtedly is one of the best preventives of stomach

worms that we have. One of the most eminent veterinarians of his day, James White, gives us an instance of a horse so reduced in flesh and weakened by worms that he was thought incurable, which, after being turned into a field of vetches became perfectly sound and well. Powdered tin has been recommended for worms in horses, made into a ball in connection with flour and honey and given in doses of from three to four drams. Such a preparation might be tried with benefit on sheep since every grain of the tin must necessarily find its way into the fourth stomach, the habitat of the worm.

It will be seen that this authority does not rely upon any of the so-called cures. He depends very largely upon preventive measures. Messrs. Wilcox and Smith, commenting upon the various stomach worm medicines, report as follows:

One of the most recent treatments which has been highly recommended consists in giving coal-tar creosote in a 1 per cent solution in water, the dose being two ounces for young lambs. In a single treatment Craig and Biting obtained better results from this than from any other method. Wheeler, at Biltmore, North Carolina, obtained best results from lysol and other coal-tar products in doses of six ounces in 1 per cent solution. The chief attention, however, should always be given to means of keeping lambs away from contaminated feed and water, since prevention is far more successful and profitable than remedial treatment.

There can be no question but that in combating stomach worms, as other parasites, the easiest method is that of prevention. It is not only the most successful, but it is, of course, the safest and cheapest as well.



THIS department is conducted by an experienced horticulturist. All questions relating to horticulture will be answered if of sufficient general interest to warrant a reply in this department. Communications and inquiries upon horticultural topics should be addressed to this office.

HOW TO PREVENT THE PREMATURE DROPPING OF APPLES.

To the Editor of The Homestead:

The fruit culturist whose land is moist, low and heavy with clay should guard against too much cultivation of his trees, where the spring and early summer are unusually wet. It is better merely to keep the weeds and grass down, and give the land no tillage during very wet seasons, for if there is too much moisture in the ground, pears, peaches, plums, persimmons and especially apples show a great tendency to rot upon the trees, and to fall off in large quantities.

The stirring of the soil makes it absorb a great deal of moisture, and this drawn up into the trees through the bark and new wood in larger quantity than is good for the trees, causes the fruit to rot or to be pushed off the stems while green, just as dead leaves which have remained on forest trees all winter are pushed off in the early spring by the rising sap and the swelling of the buds. Fruit trees should, of course, have some cultivation in the early spring, just after the frost gets out of the ground, but if it should turn off very wet in the late spring and early summer the soil should not be stirred at all, for too little moisture is better than too much. Also, if the season is very wet the fruit will have a soggy, watery taste, but if the season is dry the flavor will be better. Late in summer, if the weather shows signs of turning off dry a very little cultivation will not be detrimental, but this would better be light harrowing rather than plowing.

There is quite a respectable body of horticulturists who do not believe any cultivation is necessary, under any circumstances, for the ideal apple orchard, and that the season would better be a little too dry than too wet, especially if the trees are on low, bot-

tom land, or in heavy, clayey land which holds moisture well. If the season is rather dry the fruit will have more of the fine, dry, crisp, apple flavor, and yet be juicy enough for cider or vinegar making. There are a number of apple culturists who even believe that apples do best on wild sod land covered with grass, or on pasture land given over permanently to grazing purposes, claiming that the trees will be hardier, longer lived, and the fruit better flavored than if the land is given thorough cultivation, and there is doubtless something in this claim, where the trees are on moist bottom land which retains enough moisture without cultivation.

If the orchard stands upon high, friable, sandy, gravelly soil, in sections where the summers are long and inclined to be drouthy, the trees may need some cultivation, especially in winter, to catch the winter rains, but even here it is well to remember that

too little moisture is better than too much, and the season may be so wet that no cultivation at all would be best even here. Certainly on very moist land the orchardist will be safer in simply keeping the weeds and grass killed back near the trees by hoeing them down, and if the middles are cultivated the plows or harrows should not come nearer than six or seven feet of the trees. For this reason it is best that the trees be thick in the row, with the rows wide apart—say fifteen feet by thirty-five feet, depending somewhat on the richness of the soil—giving about eighty-four trees to the acre, with the thickest rows running north and south. This would give all the trees a better chance at the late afternoon sunshine and the early morning sunshine from the east, while the earth having swung so far south in the summer, just when trees are most helped by sunshine, they would get the benefit of the sun's almost perpetual rays. That is, trees fifteen feet apart north and south would not shade each other.

This would give room in the wide middles for six or seven rows of corn, cowpeas, vegetables, peanuts, melons, or a little strip of wheat, oats, millet, sorghum, alfalfa or clover, without its being necessary for the plows and harrows to come nearer than say six feet of the apple trees on either side. This would be of tremendous value to the apple orchard on moist land during wet seasons.

Also the ground under the trees should not be left rough and uneven from the winter plowing, but should be raked or harrowed smooth and sloping slightly on both sides of the row, so that a good deal of water will flow off before it has time to soak in, allowing the ground after rains to remain hard baked. Were these simple principles followed out every farmer whose orchard is on moist, clayey land would save a much larger proportion of his apples during wet seasons, and they would be of better quality. I. H. Motes.

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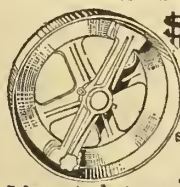
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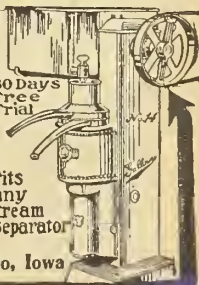
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IOWA SWINE BREEDERS' MEETING.

(Continued from page 11.)

foreign commerce. Perhaps it can be simmered down to the one fact of high prices. Then what causes high prices? A shortage of those commodities which are most needed by human beings. Why is that shortage? Because the farmer has not kept up in the extent of his productions with the increased population.

The farmer then may be held responsible for the present situation much as the officers of a corporation are for anything that goes wrong with that corporation, though many of the causes of the mischief may have been entirely beyond their control.

This much may be said, however, that the husbandman has not taken as much out of the soil as he would have taken under more scientific and conscientious methods of cultivation, and we have about reached the limit in the extension of our areas. Nor, so far as this country is concerned, is the outlook altogether satisfactory as to any cheapening of farm products. The farmer is working land which has greatly increased in value during the past ten or twenty years. He must get a pretty high price for his product in order to reimburse himself for his labor and also pay interest on the capital invested in his acres. Unless he sees a good price coming for wheat or corn, he will not plant his lands to those grains. How, therefore, we are to get out of this knotty situation with lower food prices without a considerable loss to the farmers is a question. It may be that we are on the verge of a great liquidation in farm property similar to those that are so often experienced in the stock market when prices get too high. Thus far there is no evidence of any such event. Prices of farm lands are still advancing, and there is considerable speculation in them. The strain has become so great in this country that many of our people are migrating to the cheaper lands of Canada. One thing is becoming clearer and clearer, and that is that our farm products will hereafter and until a break does come, cut a comparatively small figure in the export trade, and other fields will furnish the bulk of the supplies to the people of Europe.

The remainder of Mr. Saunders' paper was devoted to a refutation of statements on the meat situation in an article recently published in an eastern magazine.

Prof. H. H. Kildee, of the Iowa Agricultural College read the following paper on the "Profitable Production of six per cent pork on fifty per cent corn under Prevailing Conditions:"

Pork production is and always will be one of the chief industries of this state. Corn growing and pork production are always closely associated, yet while Iowa has strong competition for the title of "Golden Buckle" of the corn belt, no one will question her right to the title of "Golden Buckle" of the hog belt. Iowa stands in a class by herself in number and value of swine. On January 1, 1909, there were 7,908,000 or practically as many as the two states, Illinois and Nebraska, ranking second and third, combined.

The hog is king in Iowa because he is well adapted to our conditions and because we appreciate a good thing. The factors which have made him so deservedly popular are as follows: Early maturity, fecundity, economy of production and utilization of by-products.

The profitable production of pork may be readily divided into three phases or stages, which are, the selection of breeding stock, care and management, and proper feeding.

It is impossible to cover all three phases in the time allotted this paper so I will hastily pass over the first two and spend most of my time on the third phase.

We all realize that there may be as much difference between individuals of a given breed as there is between representatives of different breeds. So while our favorite breeds have their leading characteristics we know that they have their unprofitable, as well as profitable representatives. Hence in the selection of the foundation stock for our herds we must see to it that we select the most profitable type from our favorite breed.

The successful hog raiser is the man who pays strict attention to the health and comfort of his "money makers," especially while they are young. It is very essential that they be kept in roomy, sanitary quarters and free from both internal and external parasites.

While it is absolutely essential to the most profitable returns that the foundation stock be carefully selected and the pigs be kept in perfect health, yet the method of feeding is a potent factor in determining the profit. The problem of how much expense, time and labor can be profitably expended in preparing feed for swine is one of importance and one which is rapidly being settled.

Experiment station workers are practically unanimous in concluding that cooking not only does not increase the profit, but that it is often a detriment, as the heat renders some of the nutrients less digestible. It was formerly thought by many that it was a paying proposition to grind corn for all classes of swine. This idea has been exploded and the Iowa Experiment Station in a series of experiments with a large number of animals found that for spring pigs during their first summer

and fall there was a saving of over 6 per cent of the corn feeding in the ear instead of shelling and soaking it and a saving of 18 to 24 per cent by feeding in the ear instead of shelling and grinding it. With the older animals there was a small saving of corn by shelling and soaking it twelve hours. In all cases where there was a saving by grinding there was a greater saving by simply soaking the shelled corn twelve hours in water. Extreme early maturity can best be secured by shelling and soaking the corn. A combination of rapid and economical gains can best be secured by feeding dry ear corn until the hogs are close to 200 pounds in weight. For hogs above 200 pounds, soaked shelled corn while a trifle slower than soaked corn meal, made the most economical gains. In reporting these experiments in Bulletin 106 of the Iowa station, Professor Robbins states that to have ground the corn necessary for our 7,908,000 hogs would have cost at least \$3,000,000 per year. As the average weight for all hogs sold on the Chicago market for the past five years is but 222 pounds, the bulk of our hogs go to market ere they pass the size at which feeding dry ear corn gives the best results.

To make the greatest profit out of swine it is necessary to produce gains cheaply. This can best be accomplished by furnishing plenty of forage. We are just beginning to appreciate the value of the various forage crops. At the Iowa Experiment Station we have found that clover is much superior to timothy and blue grass and in our work made a trifle better showing than did alfalfa.

By comparing results from a check lot of pigs fed corn and meat meal in a dry lot it was found that an acre of clover produced about 750 pounds of pork. The feed and pasture per 100 pounds gain costing but \$3.50 from the time pigs were weaned until they weighed about 225 pounds. There are many crops which may be sown in the spring and make excellent pastures. Some of these are rape; oats, rape and Canada field peas; oats, rape and vetch, and oats, rape and clover. An acre of the last named combination produced 830 pounds of pork exclusive of the pork produced by feed given.

In addition to supplying an abundance of green feed during the summer it is a paying proposition to grow soy beans, cowpeas, Canada field peas, vetch or rape with corn in a field near the building to run the pigs on during the fall. Excepting the rape these crops can best be put in with a drill immediately after the corn is checked and thus they will be nearly ripe when the corn is ready to turn into. Gains made by pigs on corn with soy beans or cowpeas have been found to be not only much more economical, but a trifle more rapid than those made by pigs in a dry lot fed all the corn and meat meal they would eat. An acre of corn and soy beans produced 619 pounds of pork at a cost of \$2.38 per 100 pounds, while gains made by similar hogs in a dry lot fed corn and tankage cost \$3.74 per 100 pounds.

Iowa farmers are beginning to realize the importance of dairying and that the two classes of stock which make an especially profitable combination are dairy cattle and swine. Skim milk and buttermilk make valuable supplements to use in conjunction with our corn ration and where pigs run on good forage and receive one of these in conjunction with corn the economical production of pork is assured.

While absolutely essential to economical production in dry lot feeding, it is not necessary to feed a very large amount of the various sources of protein to pigs, on forage crops which receive skim milk or buttermilk.

While there are many nitrogenous feed stuffs on the market, the bulk of experimental data, as well as practical experience is very favorable to the packing house by-products as a profitable source of protein to balance the corn ration, either in dry lot feeding or where the pasture does not furnish sufficient protein.

Six-cent pork can be produced at a handsome profit under prevailing conditions if proper use is made of forage crops and dairy by-products.

Experiment station work shows that a bushel of corn when properly fed will produce twelve to fourteen pounds of pork, hence when hogs are six cents a pound we are getting about eighty cents per bushel for our corn. I am firmly convinced that no farm yields the largest possible returns which does not have a lot of well-managed, properly-fed swine.

Talking about "Private Sales or Public Sales," Mr. W. H. Cooper of Hedrick, Iowa, said:

The subject is one on which there has been a great deal of agitation, but one which resolves itself into a question of selling at the least possible expense. At first glance the breeder is inclined to conclude that the cost of holding a public sale—including as it does the items of advertising, auctioneers, lunches, free hacks, etc.—is so

great as to make the more conservative plan of selling at private sale the more profitable one.

The public sale method of disposing of property, and particularly pure-bred live stock, has been greatly abused. It is this that has poisoned the minds of many, not only sellers, but buyers as well. This feature has put many out of business, kept still more out, and turned their attention to the private sale as a means of clean and honorable disposition of property.

I am in favor of the public sale, and I admire the energy and enterprise of the man who fits up an offering for a public sale and then calls in his neighbors on sale day, depending upon their judgment as to the prices he shall receive for his stock. I believe the sale feature has advantages in that it is an advertisement for later business. It brings the buyer and seller into personal connection and enables the former to become fully acquainted not only with the man, but with the herd, and this is an important point. I do not believe that the man who sticks to the private sale business can become so well advertised with an equal amount of money spent for advertising purposes as the man who adopts the public sale system. Then if a sale be made in a circuit of from one to four others in succession, it has additional value in bringing buyers from a greater distance and affords the privilege of inspecting a large number of herds, as well as a very great number of hogs. The public sale brings together buyers of all classes, not only those who demand the most fashionably bred, but those who want the commoner and plainer sorts. This fact adjusts buyers to the character of the stock to be sold. No breeder makes an offering in which all are of the toppest character. It is necessary to dispose of the entire crop, and these must of course include some of the ordinary character, as well as the better ones. I believe when making a public sale the seller should confine himself to absolutely truthful statements with reference to the character of the hogs he proposes to sell. I know that there are a great many who follow exactly the opposite plan, but it is some satisfaction to know that the men of this class are becoming fewer and I trust the time will soon come when none of them will be in the business.

With reference to the advantages of the private sale method of selling, it is urged that it is less expensive and that the patron profits by the saving of public sale expense. But here, also, the question of the breeder given to dishonest practices enters into consideration. I believe there is a wider range for work by the dishonest seller at private sale than there is for the one who adopts the public sale system. I prefer the public sale system for one reason, because in disposing of my hogs I get all my money at one time and everything is cleaned up. In my own case my sales have brought buyers in competition with each other and the offering has brought me better prices than had I sold them privately. I bring together breeders, feeders and farmers who inspect my breeding herd and my methods, and in different ways make the business more attractive. I get more advertising out of my public sales from the fact that the sale report is scattered through the land.

EXPERT SWINE JUDGES.

The annual meeting of the National Association of Expert Swine Judges took place at Des Moines, Iowa, on Wednesday, June 15, as per previous announcements. The meeting was presided over by Pres. H. F. Hoffman, of Washta, Iowa. Mr. William B. McTavish, of Coggon, Iowa, is secretary and was also present. The meeting was opened by an able presentation by Mr. Samuel McKelvie, of Fairfield, Neb., of the merits of the score card, not only in its application to the pure-

bred animals in breeding herds, but also to its influence upon the improvement, from a money-making view, of the entire hog products of the country. Mr. McKelvie has given this matter much study and stated that after careful and repeated investigations of the particular qualities demanded by packers and for which they were willing to pay the highest prices, he had found that a hog which possessed the highest points of excellence from the score card point of view was the one which most nearly filled all the demands of the packers.

The election of officers resulted as follows: President, H. F. Hoffman, Washta, Iowa; secretary and treasurer, William B. McTavish, Coggon, Iowa; first vice-president, Samuel McKelvie, Fairfield, Neb.; second vice-president, J. H. Watson, Madrid, Iowa; executive committee, George T. White, Dallas Center, Iowa, J. A. Mason, Carlisle, Iowa, and F. L. Emmert, Mason City, Iowa.

A discussion of the question as to any improvement that might be made in the score card resulted in the selection of a revision committee composed of Messrs. Samuel McKelvie, W. Z. Swallow and H. F. Hoffman, with instructions to report at the next annual meeting.

The business of the organization having been disposed of, the association adjourned to take up the matter of examining candidates for certificates as expert judges. The committee having examination of candidates in charge was Mr. Samuel McKelvie, Mr. W. Z. Swallow and Mr. C. C. Carlin. Specimens of four breeds had been provided. E. L. Nagle & Son, of Deep River, Iowa, sent a Chester White sow, J. H. Watson, of Madrid, Iowa, sent a Poland China boar, A. P. Alsins, of Boone, Iowa, provided a Duroc Jersey boar, Iowa State College forwarded a Berkshire barrow. Although quite a number of gentlemen took the examination, only two certificates were granted. These were given to Mr. G. J. Ricker, of Ogden, Iowa, and Mr. F. L. Emmert, of Mason City, Iowa, both being on the Poland Chinas.

The annual meeting of this association usually takes place on the day following the June meeting of the Iowa Swine Breeders' Association, and the probabilities are that this order will be observed next year.



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BIG PAY

By Our New FREE METHOD you can become an expert on any string or wind instrument—we teach you how and all you have to do is to practice in your spare time (our method is a proved success). Organize a band or orchestra in your locality—there is a great demand everywhere for musicians. We sell all kinds of instruments—let us know which you are interested in and we will send catalog free. We also give with every instrument a 50-lesson certificate. Easy terms, lowest prices. Write for string instrument catalog No. 4 or band instrument catalog No. 5. Jenkins Sons Music Co., Kan. City, Mo.



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Concrete Block Machinery

AT PRICES NEVER BEFORE HEARD OF

If you are interested in concrete machinery of any kind send quick for my new catalog just off the press. It illustrates and describes machines for making all kinds of building blocks, silo blocks, chimney blocks, bricks, fence posts, tile, etc., and quotes prices that will astonish you. There is big money to be made right now in this line of business and it requires very little capital to start. Please remember these are all standard high-grade machines and are guaranteed from 30 to 50 per cent lower in price than others sell for.

GET THIS FREE CATALOG at once. It is filled with useful information about this wonderful new method of building, and is a real instruction book for those who lack experience.

Wm. Galloway Co., 10 Galloway Sta., Waterloo, Iowa



More Perfect Bales. The patented rocker tucker of the Dain Pull Power Hay Press combined with vast pressing strength, turns out compact, square ended bales and more of these perfect bales each day than any other press. Dain-made bales pack closely, sell quicker, bring highest prices.

DAIN PULL POWER HAY PRESSES

Simple and Practical. No bulky step-over plitman, no toggle joints, no terrific rebound. Reinforced steel construction. In spite of shorter sweep and great capacity, horses have easy pull, because compound leverage develops tremendous power. Every hay tool of the great Dain Line is best of its kind.

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806 VINE STREET

OTTUMWA, IOWA

Saves Hand Hire. Unlike push power machines, Dain presses can be set to center of stack, so one man can pitch to feeder. Large convenient feed opening allows feeder to make large and frequent charges. Result—large capacity with one man less needed.

Dain Presses always have plenty of work on hand. You can make more money with Dain Hay Presses than with any other. Let us give you more reasons why. Don't buy a Hay Press until you get our catalogue. Write for it today.



DAY BY DAY

AGRICOLA

Apple blossoms are beautiful and we did hate to see them killed by the spring frosts, but the trees took courage and brought out some delayed blossoms and the way the little apples are growing is a delight to the eye. So should we when our early hopes are frosted, we should believe in the future just the same. Youth is the time to believe, mature age is the time to have a good workable faith.

There are some people that we can love that we cannot always agree with, and there are some that believe as we do that are not lovable.

Agricola has been singing the praises of the Senator Dunlap strawberry of late years, claiming that the farmer had so little use for any other varieties that it does not pay to bother with them. But this rosy June we had few Dunlaps and had it not been for the Parker Earle our strawberry short-cakes would have been scant enough to suit a preacher of semi-starvation. The Parker Earle is a later berry and escaped the frost. Or, speaking more exactly, it is a variety which "sets" late as well as early, and the late bloom made good.

Not until the twelfth day of June did we have good corn weather in this part of the corn belt—that is, warm enough for growth. The rainfall has been light and scattering and most localities are suffering somewhat for more water. I am "conserving" the moisture by surface cultivation. Conservation is a word to conjure with agriculturally as well as politically and each farmer has the primary election right in his own polling place—in his very own poll.

After Adam and Eve left Eden and the Lord had to look after it without human help both parties must have felt a little lonesome.

The people of Athens worshiped gods that they feared, but did not trust implicitly. They had a place of worship just across the river Esopus and carried sheep over to sacrifice. Once the river was so swollen by a

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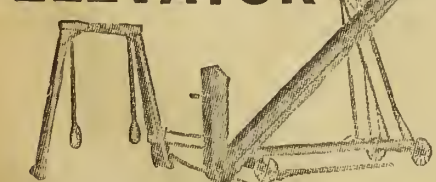
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Instructions given in all branches by correspondence

Board \$1.75, \$2.25 and \$2.75 per week. Tuition in College, Normal and Commercial Courses, \$18 a quarter. All expenses three months \$55.40; six months \$98.75; nine months \$143.60. School all year. Catalog free. Mention course you are interested in and state whether you wish resident or correspondence work. Address

O. H. LONGWELL, President, Des Moines, Iowa

STERLING GRAIN ELEVATOR



THE most practical machine on the market. The only elevator which separates the shelled corn from ear corn. No worm gear, screw or other old fashioned and non-practical devices to give trouble, but a straight gear throughout.

Sterling Portable Elevator Mfg. Co., Sterling, Illinois.

SELF-LOADING HAY RACK

NO one owning a loader can afford to be without. A boy can put on load quicker than two men the old way. Send for circular. Address

JAS. G. BAILEY, DELAVAN, ILLINOIS.

LANDS AND HOMES FOR SALE

BUY A HOME IN SUNNY SOUTH DAKOTA

We have choice bargains in farms and ranches. Write us for further information.
THE O'RIELLY LAND COMPANY, DRAPER, LYMAN COUNTY, SOUTH DAKOTA.

Buy a North Dakota Farm

AND MAKE 10% ON YOUR MONEY. Good, cheap land for sale in Williams County, N. D. Raised last season, 30 bu. wheat to acre and 60 bu. of oats. We pay \$1 per acre cash commission for anyone sending us buyers. Agents wanted. Write Fred Southard & Co., Williston, North Dakota.

Iowa Farm For Sale

270 ACRES bordering on Silver Lake, a beautiful body of water well stocked with fish. The land lies gently rolling; about one hundred and twenty acres are under the plow; balance is fine pasture and 80 acres more can be broken out. Price, \$72.50 per acre; \$1,000 cash; \$4,000 March 1, 1911; balance can run nine years at 5%.

J. G. Chrysler & Son, Lake Park, Iowa.

REFeree'S SALE The whole or part of a No. 1 stock and grain farm of 370 acres, located 3 1/2 miles southwest of Salem, Henry County, Iowa, known as the James Welpton farm; place is well watered and pasture seeded to blue grass. Sealed bids received until August 1, 1910. Sale subject to approval of court. Address **W. S. JUDY, referee, Mt. Pleasant, Iowa.**

Lyman Co. Lands

ASAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. **HAGLER LAND CO., PRESHO, S. DAK.**

TWO TEXAS BARGAINS

TWO 1/2 sections, best part Texas Panhandle, virgin soil, wheat, broom corn, alfalfa, splendid water; healthful climate, railways near, buy from owner and save commission. Address **J. E. MOSNAT - BELLE PLAINE, IOWA.**

IOWA LANDS Bargains always on hands. 160 acres, two miles from town; good land and buildings; \$72.50 per acre. Address **D. H. EYLER, Clarion, Iowa.**

IOWA FARMS In Union, Clark and Madison counties at \$50 to \$90 per acre. Write for list. **THE CHEAP HOMES LAND CO. - LORIMOR, IOWA.**

rain that they could not take over sheep, and someone remembered that apple and sheep are the same in the name in Greek. So thy stuck wooden legs in some apples and called them sheep. The gods did not know the difference.

Those government officials who declared that there is a butter trust and they were going to prosecute it have backed down, not like men, but like hirelings. They give as a reason that they can find no law under which the butter trust can be prosecuted, when the bald fact in the case is that they could find no butter trust and for the reason that there is not and never has been one. If their knowledge had been proportionate to their zeal they would have known this all the time.

By doubling the speed of your gasoline engine you multiply the power and divide the life of the engine by two. Both these statements are practically true. The engine which is built to last is heavy, has large cylinder and show motion. But it costs money to buy that make. The cheap engines are speeded higher, giving more impulses per minute in order to obtain power. If you have only short jobs to perform and these occasionally, the light engine will do it satisfactorily and last until it is out of date, but for all-day runs and these days close together the heavy engine has a great advantage.

Not living in benighted India we have no sacred cows and no temples devoted to idolatrous worship, yet the merciful man builds a pagoda in his calf pasture, year, verily, and he requireth not the young cowlets to live on cold skim milk.

Does it pay to get angry? Physiologists say it does not—that anger hurries the heart, causes undue heat and friction, and wears out the human machine faster because of this speeding up, and shortens life much as it does a gasoline engine to overheat with too rapid explosions. But a neighbor once told me that he had made money and lengthened his days, as he believed, by getting mad clear through. He was a poor man and used tobacco. One day he did some figuring and found that he "chewed up" the value of a cow every year, and he needed the cow so much that he "got so mad he hated the sight and thought of tobacco" and never touched it afterwards.

Back to the Soil
50,000 ACRES
In St. Louis and Carlton Counties
MINNESOTA

NEAR fast growing cities of DULUTH and SUPERIOR. Splendid markets. Eighteen railroads. Soil fertile and well adapted to general farming, dairying and raising of garden truck. Price, \$8 to \$10 an acre. Easy terms. Lands are owned by this company, free of all encumbrances, and no reservations. Write for full particulars and information.

Boston & Duluth Farm Land Co.
No. 18 5th Ave. West, Duluth, Minn.

HOMESEEKERS' PARADISE

THE FAMOUS ARKANSAS VALLEY OF COLORADO 40,000 acres of the finest land in America. Grows all kinds of crops. Good Railroads. Up-to-date towns. Sugar factory and alfalfa meal mills. Good Markets. Climate best in the world. Irrigation system ranks with the best. Our price \$30 to \$35 per acre, with perpetual water right. Easy terms, no interest. Your fare paid if you buy 80 acres or up. Write for illustrated booklet, map. **MONSON & MALCOM REALTY CO.**
300 Kittredge Bldg., Denver, Colo.

SOUTH DAKOTA
Corn and Alfalfa Lands

The rush is on for Stanley county. Buy lands near the new railroad and double your money in the next year; 20,000 acres to select from; \$12 to \$18 per acre. Write for maps and booklet. **FELLAND REALTY COMPANY,**
530 Palace Bldg., Minneapolis, Minn.

LET ME TELL YOU

ABOUT a 320-acre farm lying 12 miles north-east of Carthage, on turnpike road; well improved; all in cultivation except 20 acres of pasture, with running water through same. This can be bought for \$75 per acre; worth \$125 if taken soon. For detailed description, address

J. E. HALL, Carthage, Missouri.

We Mean It!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

BUY A FARM IN THE
CORN AND CLOVER BELT!

WHERE your investment is sure. No matter whether the season is wet or dry, crops have never failed. Cottonwood County, Minnesota, is the place. Write for list of farms. Address **D. C. WELD - WINDOM, MINNESOTA.**

Improved Kansas Farms

I own the following improved farms, all near Severy, Kan., that I will sell on a payment down and the balance on long time at low rate of interest: 80 acres at \$15 per acre, 160 acres at \$35 per acre and 320 acres at \$30 per acre. I am not a real estate dealer; simply own the land and want to sell it. If you are interested write or call and see the land. **M. J. BIDEWELL, Severy, Kansas.**

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Home Seeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address **The Allen Co. Investment Co., Longton, Kan.**

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Murray County, Minnesota

I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address **BERT I. WELD, SLAYTON, MINNESOTA.**

NORTH MISSOURI FARM

ON account of old age, I will sell my 320-acre farm, well improved, at attractive price; easy terms. Address **J. W. McBeath, R. 2, Gallatin, Mo.**

Buy Corn Belt Lands In the Famous Montevideo black loam prairie district of S. W. Minnesota. \$30 per acre and up. Free pictorial and descriptive price list. Address **E. H. Crandall, The Land Man, Montevideo, Minn.**

Iowa Lands For Sale in Howard county, \$50 to \$90 per acre. Large list on request. Address, **SPAULDING & O'DONNELL, Elma, Iowa.**

MUSSELSHELL
VALLEY
MONTANA LANDS

In the Mussellsell Valley of Central Montana, along the Milwaukee Road's new line, we own and offer for sale 23,000 acres of highly productive farming lands—also some grazing lands—at \$8.00 to \$25.00 per acre. Terms, one-third cash; balance in five equal annual installments with interest at 6 per cent.

Excursions via Milwaukee Road on first and third Tuesdays of month. Low fares. Special car from Fargo. Come out and see these lands.

Write us for descriptive leaflet. Tell us how much land you want and how much cash you have to invest.

WHELOCK & WHELOCK Est. 1897.
25 Waldorf Block, Fargo, N. D.

FREE LAND

AND FREE WATER RIGHTS IN
NORTHWESTERN COLORADO

Write to-day for map and booklet telling how to get 160 or 320 acres of government land. Deep, Rich Soil in River Valley. Land and irrigation water absolutely free. Railroad now being built through a million acres of free land. Fine crops of grain and vegetables; good local market. Best grass country in the west. We have no land and no water rights to sell. They are free. **W. F. JONES,**
Gen. Traf. Mgr., D. N. W. & P. Ry.
Room 704 Majestic Bldg. Denver, Colo.

LAND BARGAINS

160 ACRES adjoining the city of Orley, Roberts County, South Dakota, 120 acres in crop and one-third of it goes with the deal. Barn 16x24; fine spring of water. A bargain at \$40 per acre. A first-class stock farm and ranch of 1,800 acres, Grant Co., South Dakota; eight miles to station. Large barn 150x34, 20 ft. posts, basement 120x34 ft., bay over all, will hold over 400 tons; fine square house 36x28; living spring water in all yards and pastures; all fenced and cross fenced; section of school land fenced; fence goes with the deal. A heavy growth of grass; can cut over 400 tons of hay. At the low price of \$22.50 an acre. Reasonable terms. We sell farms from 40 acres up and from \$15 an acre up. Address **Love & Keller Land Co., Madison, S. D.**

IOWA FARMS FOR SALE!

80 ACRES, 4 1/2 miles from a good town, has a 4-room cottage, barn and crib; price \$110 per acre. **28 1/2 acres**, 3 miles from a small town; has two sets of fair improvements, consisting of two 6-room houses, 2 barns, 2 corn cribs, new hog house, farm scales and other small buildings; there are 140 acres of rich bottom land on this farm; about 40 acres rough and balance table land; nearly 200 acres fenced hog tight; 3 living springs which never fail; this is an ideal stock farm and a bargain at \$5 per acre. For any further particulars call on or address **CARL & MEREDITH'S REAL ESTATE AGENCY, LONE TREE, JOHNSON COUNTY, IOWA.**

GALLATIN VALLEY
MONTANA LANDS

WE have for sale a large list of splendid farms, improved and unimproved, irrigated and dry, close to church, school, town and railroad, in the oldest, most successful farm district in the Northwest. Climate good; no blizzards or cyclones. Ideal for small grains, sugar beets, potatoes, alfalfa, clover and timothy, apples and strawberries. Prices and terms reasonable. Literature sent on inquiry. **H. S. Buell Land Co., Bozeman, Montana.**

IOWA CORN AND ALFALFA FARMS

No better corn farms in the corn belt.
No better alfalfa land anywhere.
No better winter wheat land anywhere.
No waste land; no wet land.
No sand; no gravel.
Just rich, deep, black soil.
The only section in Iowa where corn and alfalfa are both extensively and successfully produced.
For sale by

H. L. CRAVEN & CO., ONAWA, IOWA.
Ask for new free list.

MONTANA FARMS

In the Big Basin Country The greatest agricultural country in the world that grows wheat, oats, alfalfa and garden stuff without irrigation, and has won more prizes at the different expositions than any country in the world. Farms at \$15 to \$30 per acre, and one crop pays for your farm. Send for our free booklet and descriptions of wheat farms. **Great Falls Land & Investment Co., P. O. Box 330. Great Falls, Montana.**

Come to Williston, N. D.

FINE soil; good water; wheat yields 25 bushels; other grains and vegetables in proportion. Land \$15 to \$25 per acre. One crop pays for the land. Write me today. Can prove this statement. Williston has 5,000 population and growing rapidly. Write me for information and list of lands. Better buy now. Land will never be any cheaper. Two new railroads building into Williston. Home seekers' tickets all good for stop over at Williston. **H. V. SMITH, WILLISTON, N. DAKOTA.**

MISSOURI FARMS

STOCK and grain farms in Ralls, Monroe and S. Audrain counties, the best blue grass section of Northeast Missouri; all size tracts; write me what you want in first letter. Address **CHAS. E. SMITH - PERRY, MISSOURI.**

DATES FOR LIVE STOCK SALES.

Short-horn Cattle.

Oct. 4, John Buckstead, Viborg, S. D.
Oct. 21, Mundy & Robinson, at Correctionville, Iowa.
Oct. 25, Brenizer & McCullough, Broken Bow, Neb., sale at South Omaha.
Oct. 26, P. D. Fuller, South Omaha, Neb.
Oct. 27, W. A. Hazebrook, Bladen, Neb.
Dec. 6, Will C. Meyer, Carroll, Iowa.
Dec. 13, P. H. & H. F. Funke, Greenfield, Iowa.
Dec. 14, C. A. Saunders, So. Omaha, Neb.
Dec. 21, Ed Morgan, Kanaranzi, Minn.
Dec. 22, Walpole Bros., Rock Valley, Ia.
May 23, Thos. Johnson, Columbus, Ohio.

Aberdeen Angus Cattle.

Sept. 29, F. J. Nelson, Sheldon, Iowa.
Oct. 4, Silas Igo, Indianola, Iowa.
Oct. 5, White Bros., Perry, Iowa.
Oct. 6, Joseph P. Cox, Boone, Iowa.
Oct. 18, Christian-Lang Co., Omaha, Neb.
Oct. 19, Chas. Escher & Son, Botna, Ia.
Oct. 19, Henry Escher, Harlan, Iowa.
Oct. 20, C. M. Russell, Carroll, Iowa.
Oct. 25, Anderson & Son, Newell, Iowa.
Oct. 26, Lakeside Farm, Storm Lake, Ia.
Nov. 2, W. A. McHenry, Denison, Iowa.

Hereford Cattle.

Oct. 20, Clore and Kinsell, Chariton, Ia.
Nov. 23, Geo. R. Slocum, Sioux City, Ia.

Polled Durham Cattle.

Sept. 28, H. W. Deuker, Kalona, Iowa.
Sept. 29, L. G. Shaver, Mgr., Kalona, Ia.

Red Polled Cattle.

Oct. 27, C. A. Crawford, Anthon, Iowa.

Jersey Cattle.

June 30, Kinloch Farms, Kirksville, Mo.

Duroc Jersey Swine.

Aug. 10, D. B. Johnson & Son, Mooresville, Ind.
Aug. 11, M. A. Kraschel, Macon, Ill.
Aug. 16, S. E. Morton, Camden, Ohio.
Oct. 11, Hanks & Bishop, New London, Iowa.
Oct. 12, H. E. Browning, Hersman, Ill.
Oct. 13, Baxter & Comer, Pawnee, Ill.
Oct. 14, C. E. Veak, Essex, Iowa.
Oct. 14, M. A. Kraschel, Macon, Ill.
Oct. 18, List Bros., Granville, Iowa.
Oct. 18, A. E. Knight, Whitehall, Ill.
Oct. 19, James Williams, Marcus, Iowa.
Oct. 20, Edmonds, Shade & Co., Kingsley, Iowa.

Oct. 20, J. A. Shade & Co., Kingsley, Ia.
Oct. 21, H. L. Cantine, Quimby, Iowa.
Oct. 22, A. Lentz & Son, Pierson, Iowa.
Oct. 25, W. M. Sells, Indianola, Iowa.
Oct. 25, Thos. Johnson, Columbus, Ohio.
Oct. 26, O. E. Osborn, Weston, Iowa.
Oct. 28, I. H. Graham, Washta, Iowa.
Oct. 26, Whitehall Farm, Yellow Spgs., Ohio.

Oct. 28, Sears & Nicolls, Chillicothe, O.
Oct. 29, T. J. Link, Winterset, Iowa.
Nov. 2, F. H. Herring, Iowa City, Ia.
Nov. 3, L. C. McLaughlin, Panora, Ia.
Nov. 4, J. B. Hillegoss, Anderson, Ind.
Jan. 3, John Goddard, Harlan, Iowa.
Jan. 4, C. A. Rasmussen, Harlan, Iowa.
Jan. 5, A. F. Hager, Avoca, Iowa.
Jan. 7, Theo. Schwery, Earling, Iowa.
Jan. 23, E. W. Davis & Co., Glenwood, Mo.

Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 30, A. Lentz & Son, Pierson, Iowa.
Jan. 30, Walter Bowen, Neola, Iowa.
Jan. 31, Edmonds, Shade & Co., Kingsley, Iowa.
Feb. 1, H. L. Cantine, Quimby, Iowa.
Feb. 2, James Williams, Marcus, Iowa.
Feb. 2, Geo. Ewatts, Audubon, Iowa.
Feb. 3, List Bros., Granville, Iowa.
Feb. 4, I. H. Graham, Washta, Iowa.
Feb. 7, Sam Stewart & Sons, Kennard, Neb.

Poland China Swine.

Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
Sept. 24, Pfander & Sons, Clarinda, Ia.
Sept. 28, H. W. Miller, Peterson, Iowa.
Oct. 5, J. M. Stewart, Ainsworth, Iowa.
Oct. 6, W. H. Cooper, Hedrick, Iowa.
Oct. 6, L. R. McClarnon, Braddyville, Iowa.
Oct. 7, J. P. Wycoff, Highland, Iowa.
Oct. 12, W. J. Crow, Webb, Iowa.
Oct. 13, E. Gritters, Hull, Iowa.
Oct. 27, Walter Heildwein, Fairview, Kan.

Oct. 28, Geo. Sefrit, Lucas, Iowa.
Nov. 3, C. W. Phillips, New Sharon, Ia.
Nov. 9, T. J. Meisner, Sabetha, Kan.
Nov. 10, Lee Gross, Nodaway, Mo.
Jan. 18, Julius Stein, Bloomfield, Neb.
Jan. 19, Jas. G. Long, Harlan, Iowa.
Jan. 19, Robert A. Schug, Coleridge, Neb.
Jan. 20, C. R. Adams, Laurel, Neb.
Feb. 7, W. H. Cooper, Hedrick, Iowa.
Feb. 8, W. J. Crow, Webb, Iowa.
Feb. 9, E. Gritters, Hull, Iowa.
Feb. 9, C. C. Polly, Whiting, Iowa.
Feb. 9, George Glynn, Sioux Rapids, Ia.
Feb. 10, James Cockerton, Whiting, Ia.
Feb. 13, E. D. Keasy, Wiota, Iowa.
Feb. 15, Lee Gross, Nodaway, Mo.
Feb. 16, Theo. Martin, Bellevue, Iowa.
Feb. 16, O. N. Remington Estate, Tekamah, Neb.

Feb. 17, D. C. Lonergan, Florence, Neb.
Feb. 18, W. E. Zimmerman, Neola, Iowa.
Feb. 21, Pfander & Sons, Clarinda, Ia.

Percheron Horses.

Oct. 26, W. S. Corsa, Whitehall, Ill.
Oct. 27, W. H. Ritter, Colfax, Ill.
Oct. 28, P. A. Bughman, Blandinsville, Ill.

Nov. 1-4 C. W. Hurt, Bloomington, Ill.
Jan. 10-13, C. W. Hurt, Bloomington, Ill.
Feb. 28-Mar. 3, C. W. Hurt, Bloomington, Ill.

Belgian Horses.

Nov. 1-4 C. W. Hurt, Bloomington, Ill.
Jan. 10-13, C. W. Hurt, Bloomington, Ill.
Feb. 28-Mar. 3, C. W. Hurt, Bloomington, Ill.

Shire Horses.

Nov. 1-4 C. W. Hurt, Bloomington, Ill.
Jan. 10-13, C. W. Hurt, Bloomington, Ill.
Feb. 28-Mar. 3, C. W. Hurt, Bloomington, Ill.

Mules.

Oct. 19, C. C. Judy, Tallula, Ill.

FIELD MEN.

M. T. White, western Iowa and Ne-

braska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.

Carlos C. Palmer, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.

Fred V. Johnson (cattle and horse divisions), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address 5701 Peoria St., Chicago, Ill.

H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.

A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.

J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Seward, Neb.

A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.

E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.

C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Bates bulls are offered for sale by Mr. O. M. Healy, of Bedford, Iowa.

Chester White fall boars are advertised for sale by Mr. S. J. Philson, of Harlan, Iowa, on page 25.

Messrs. Isenbarger Bros., of Battle Creek, Iowa, are offering some good Angus bulls for sale on page 26.

Twelve big-type fall Poland China boars are advertised for sale by Mr. J. G. Long, of Harlan, Iowa, on page 25.

Thirty-five head of Chester White fall boars and sows are advertised for sale by Mr. John F. Holst, Jr., of Denison, Iowa, on page 25.

Shetland ponies are advertised for sale by Mr. H. W. Littleton, of Harlan, Iowa, on page 27, at from \$75 to \$125. If you want a Shetland pony write or go and see Mr. Littleton.

Mr. J. E. Mosnat, of Belle Plaine, Iowa, has two farms in Texas that he wishes to dispose of. They are half-section pieces, situated in the Panhandle, which is suited to the production of wheat, broom corn, alfalfa, etc. Mr. Mosnat is the owner of this land himself and buyers who deal with him will not be compelled to pay commissions, but will get a bed-rock price. See page 21.

As will be noted in our list of dates claimed for live stock sales, Mr. C. W. Hurt, of Arrowsmith, Ill., manager of the Breeders' Sale Company, will hold three big sales at Bloomington, Ill., one taking place November 1st to 4th, the second January 10th to 13th, and the third February 28th to March 3d. These sales will include excellent specimens of Percherons, Belgians, Shires and other draft breeds.

On page 21 of this paper Mr. W. S. Judy, of Mt. Pleasant, Iowa, announces that as referee he has for sale a good stock and grain farm located near Salem, Henry county, Iowa. The farm has many advantages, is in an excellent location and can, under the circumstances be bought at a most reasonable price. Notice the manner of sale, as indicated in the advertisement, and for any further information write to Mr. W. S. Judy, Mt. Pleasant, Iowa.

The advertisement of the Wells Medicine Company will be found on page 14. This company put out Craft's distemper remedy, which may be found at all drug stores and is sold under an absolute guarantee. Farmers generally will be interested in the three books, "Veterinary Pointers," "The Horse, His Diseases and Treatment" and "Dr. Craft's Advice on Horses," which are published and sent free to any reader of The Homestead who writes for them to the Wells Medicine Co., 18 Third St., La Fayette, Ind.

Mr. Samuel Bone, of Montezuma, Iowa, is well known as one of the leading Chester White breeders of Iowa. A Homestead representative recently called on Mr. Bone and found him caring for fifty extra good spring pigs. Most of them are sired by Major and they are as even as peas. As usual, Mr. Bone will start an advertisement in The Homestead soon and we will give full particulars regarding his herd. We can recommend his pigs very highly to anyone in need of a good Chester White pig of either sex.

Mr. F. M. T. Cerwinski, of Rockford, Iowa, has large herds of Short-horn cattle, Duroc Jersey hogs and a good flock of Shropshire sheep. At the present time he has a few Short-horn bulls just turning a year old, some fall Duroc Jersey boars and some yearling Shropshire rams. Anyone in need of anything in this line should write to Mr. Cerwinski for prices and full particulars. His advertisement will commence in The Homestead soon and at that time we will give further particulars regarding his herds and flock.

A representative of this paper last week visited the farm of Mr. C. F. Shaffer, of Wellman, Iowa. Mr. Shaffer is a well-known breeder of Poland China hogs and Short-horn cattle. He has this season 125 pigs which he considers the best lot he has ever raised. They are the get of S's Meddler and Wellman Dude. S's Meddler is a full brother to Vexer, the boar that won sweepstakes at the Iowa State Fair in 1908. Mr. Shaffer has already commenced to ship out spring pigs. He will be pleased to hear from anyone wanting first-class stuff at reasonable prices. He also has some choice young bulls that he is selling at very low figures. Mr. Shaffer has shipped his stock into thirty-five states, as well as Canada and Old Mexico. He is reliable

and his guarantee may be depended upon. His advertisement will appear in a later issue of this paper.

Fall Duroc Jersey boars are advertised for sale by Mr. Mark W. Eddy, of Fontanelle, Io., on page 25.

Some excellent Scotch and Scotch-topped Short-horn bulls at bargain prices are advertised for sale by Mr. S. A. Bixler, of Corning, Iowa, on page 27 of this issue.

Some very choice Duroc Jersey boars, sired by the sensational sweepstakes boar, Crimson Wonder Again, and out of the sensational brood sow, H. A.'s Queen, are advertised for sale by Mr. W. M. Sells, of Indianola, Iowa, on page 25.

Mr. J. C. Huckstep, of Eolia, Mo., always has on hand a few high-class jacks and a string of jennets. During the summer season Mr. Huckstep makes special inducements to buyers. See his advertisement on page 27 and when writing him kindly mention this paper.

One of the very best big-type Poland China boars in the West is B Wonder, the son of A Wonder that now heads the herd of Mr. James G. Long, at Harlan, Iowa. Mr. Long is now offering some very excellent fall boars sired by him and they are strictly good and now is a good time to buy one of them. Write him for prices on these big-boned fellows at once and mention The Homestead when doing so.

Mr. J. Gilbert Hickcox, of Whitefish Bay, Wis., places an advertisement on page 24 of this issue in which he announces that he wants to sell the Guernsey bull, Glenwood's Reputation 3d. This is a three-year-old bull from a dam of high-producing character, and himself an individual of excellent merit. He will be sold for the very reasonable price of \$150. Mr. Hickcox also has a yearling bull and a few cows for sale.

Mr. Fred Ruebush, breeder of Chester White hogs, at Sciota, Ill., whose advertisement appears on page 25, writes under date of June 18th as follows: "I have a choice lot of February, March and April pigs of both sexes, now nearly ready for shipment. These are extra good ones, having heavy bone, strong backs, good quarters and of nice style and finish. A good share of them are the get of Niota Sherman 26938, winner of second prize at the Iowa State Fair last fall in the aged class. Others are by sires of excellent individual merit. I can furnish pairs, trios or small herds, not related, and at reasonable prices."

Mr. Allis Reports Several New Records.

The Monona Farm herd of Holsteins, owned by Mr. F. W. Allis, of Madison, Wis., contains a large number of high-producing cows. Production tests are now being conducted in the Monona herd and a number of animals are qualifying for the Advanced Registry with good records. Watch these columns for further announcements. See page 26.

A Hay Maker's Friend.

The Sandwich Mfg. Co., of Sandwich, Ill., have published a little booklet entitled "The Care and Cure of Hay," which is invaluable to hay makers. It gives a great deal of valuable information which hay makers generally are apt to overlook in critical emergencies. It points out ways and means by which the loss of thousands of tons of hay may be prevented. It is sent free to all readers of this paper who write for it in connection with a request for catalog of the Sandwich clean-sweep hay loader and the Sandwich side-delivery rake. The book may be had by sending request to the Sandwich Mfg. Co., 130 Main St., Sandwich, Ill.

Chicago Hereford Sale, June 30th.

Included in the offering of Hereford cattle to be made at Chicago, Thursday of next week, June 30th, under the management of Mr. Sidney B. Smith, will be some extra strong females from the herd of Mr. N. J. Hiltabrandt, Lostant, Ill., who has a reputation for producing good ones; some bulls and females consigned by Mr. Grant Fitch, Casey, Ill., an old established breeder, and some cattle from the herds of Messrs. J. B. Fernow, Leesburg, Ohio, and E. P. Dow, Forest, Ind. These gentlemen are all sending forward cattle that will be appreciated sale day, as they are the vigorous, thrifty kind, all from breeding herds of repute. No more favorable time to buy beef cattle has existed than right at the present, and the Chicago sale should not be overlooked by those of our breeders who are interested in good Herefords. The advertisement appears on page 28. Look it up and send for a copy of the catalog to Mr. Sidney B. Smith, Springfield, Ill., mentioning this paper when you write.

The Cross Duroc Jersey Herd.

Mr. Armour Cross, of Guide Rock, Neb., has a herd of Duroc Jersey hogs which may well be given a high rank. It is headed by Col. C., he by G. C.'s Col. by King of Cols., dam by Model Chief Again. This boar has plenty of size, yet shows smoothness, bone, excellent color, a good head, eye and ear. Prince Wonder 2d, the other herd boar, is one of the growthiest that will be seen this season. He is by Prince Wonder and his dam is a daughter of King of Cols. There are now close to 100 spring pigs on the farm, nearly all the get of the two herd bulls mentioned. There is, however, one litter of eleven sired by Red Wonder. Their dam is a daughter of Kent Be Beat. This litter are extra good lookers and splendid prospects for next fall. One of the finest litters on the farm is by Col. C., their dam being Crimson Belle by Crimson Jim. An outstanding litter is by Prince Wonder, dam a Valley Chief sow. This litter in particular will compare well with the best that other breeders can produce. There are in

the herd a number of dams by Valley Chief, Kant Be Beat and Pilot Chief. Mr. Cross will hold a public sale this fall, at which time further details will be presented.

Scotch and Scotch-topped Short-horn Bulls.

Those of our readers who want a good young Short-horn bull should call on or write Mr. W. H. McLaughlin, of Shelby, Iowa. He has several of these that are about as good as you will find in any herd in the state and he is pricing them where any farmer can afford to buy. Write him for prices and descriptions on these bulls at once and mention The Homestead when doing so.

Do You Want a Carl's Col. Boar?

The grandfather of all the Col. family is the celebrated Carl's Col., now at the head of the Edmonds, Shade & Co. herd at Kingsley, Iowa. They are now advertising a splendid lot of big, lusty fall boars, sired by him and out of their very best brood sows, and the man who wants a Col. boar to head his herd should lose no time in getting in touch with the above firm. They have some good boars that should go to the head of good herds. Read their advertisement on page 26.

New Gasoline Engine Offer.

The advertisement of Schmidt's chilled cylinder gasoline engine, on page 10 of this paper, will bear the most careful reading by those who need power. One of the greatest of advantages of this engine is that it may be attached to a harvester, thus reducing the amount of horse power necessary. A descriptive circular, which is sent free of charge, gives full details as to the use of this engine on harvesting machines. This circular and also a new offer by which a three-horsepower gasoline engine may be secured on trial without the payment of money and with no dealer's profit, by writing to Schmidt Bros. Co. Engine Works, Dept. 378-X, Davenport, Iowa.

Model Chief To Be Dead.

The above herd boar, at the head of the good herd of Mr. August Voge, Portsmouth, Iowa, died recently, but Mr. Voge has about 155 head of spring pigs, mostly sired by him, on the farm. Model Chief To Be was a son of the great Model Chief, and he was the best pig that Messrs. Johnson Bros. & Newkirk showed at Des Moines two years ago. He proved an excellent breeding boar and Mr. Voge has some splendid pigs by him this year, mostly out of Kruger Lad sows. Mr. Voge was not out to the fairs last year, nor did he make a public sale, but he is just as good a hog man as he ever was and that means that he is one of the best in the state. He is going to have some good boars for the trade this fall.

The Saginaw Silo.

The advertisement of the Saginaw silo will be found in a prominent place on page 13. The Saginaw has qualities which entitle it to the wonderful sales which it has made during the past season. As will be noted in the advertisement, the manufacturers prepared for an immense trade this season and by purchasing large quantities of materials were enabled to procure them at rates which are not now obtainable; therefore, when the present supply is gone the price must necessarily be increased. Note the statement in the advertisement that \$50 may be saved through the purchase of a silo from this firm. For this special saving offer write at once to the Farmers' Co-operative Produce Company, Dept. 20, Des Moines, Iowa.

The Lakewood Sale Again.

The public sale of Lakewood Percherons, advertised on page 28, which takes place at Sioux City on June 28th, is of sufficient importance to demand the attention of every farmer who appreciates the need of improvement on his own horses or those of his community. Fifty-four head have been cataloged for this sale. Owing to the fact that this is a sort of a pioneer as a summer horse sale, Messrs. McMillan have taken particular pains to select a very choice lot and they believe that buyers on sale day will appreciate the pains which have been taken to present them with really good animals. This does not mean that they have been fattened specially. They have not. They will be sold right out of the pasture without any extra fitting, and it is the belief of the owners that they will prove more valuable to the buyer in such ordinary condition than if they had been pampered and stalled for a long period. Since the close of the regular sale season the fact has been well demonstrated that there is a scarcity of Percheron mares. This sale will therefore present an opportunity to those buyers who, during the regular sale season, have failed to secure animals that suited their demands. A certificate of registry in the Percheron Society of America will be furnished with each animal sold. A liberal and safe guarantee will also be made on everything put through the sale. At the risk of repeating facts that have been previously given, we venture to call attention to the fact of the great amount of the blood of that grand old champion, Calypso, that will go into this sale. Calypso is an extraordinary Percheron. He began his experience as a prize winner by capturing a ribbon at the Paris exposition. In 1900 he entered upon an extraordinary career as a prize winner by capturing first in the three-year-old class at the International Live Stock Exposition at Chicago. In 1903, 1904, 1905 and 1906 he gained championships at all the great western state fairs. His get have also headed the rings with phenomenal success. Further facts that may be required may be procured from the catalog, for which address

Mr. H. G. McMillan, of Rock Rapids, Iowa. It should not be forgotten, however, that the sale will take place at the stock yards sale pavilion at Sioux City, Iowa, on Tuesday, June 28th.

Seamen's Red Polls.

Buyers of Red Polled bulls should note the change in the advertisement of Mr. Gus C. Seaman as it appears on page 26. This gentleman has bulls of various ages and those which have both quality and strong blood lines. Additional particulars may be had by writing to Mr. Gus C. Seaman, R. F. D. 5, Davenport, Iowa.

Tschudy's Ayrshires.

Mr. Fred Tschudy, of Monroe, Wis., is advertising a few young Ayrshire heifers and bulls for sale. Mr. Tschudy is one of the oldest breeders in the Badger State. He has always believed in breeding the good ones. Many of the sires used in his herd have come from the leading breeders of Ayrshires in the East. See page 26.

Pfander's Long Kings.

Messrs. J. W. Pfander & Sons, of Clarinda, Iowa, have about fifty spring pigs this season, sired by their well-known big-type boar, Long King, Missouri Lad and Chieftain. Among these are some good pigs that they are growing out for their fall sale on September 24th. They will sell at that time about thirty head of boars and twenty sows, among which will be a lot of daughters of Long King. They will also sell about six or eight sows with litters at that time. They always put up a good offering of the big-type Poland Chinas and we will have more to say about their offering later in the season.

Sell Wool to the Mills.

Wool growers will be interested in the advertisement of Messrs. S. Silberman & Sons as it appears on page 19 of this paper. This concern is one which has long been regarded as the biggest wool house in the world. Its magnitude gives it opportunities to sell to the best advantage and gives it other important characteristics which operate to the interest of its patrons. Please note in the advertisement the claim that the Messrs. Silberman can add two cents per pound net profit to your wool clip. It will be to your advantage to secure the market reports regularly as published. If you want them you may receive them without cost by writing to Messrs. S. Silberman & Sons, Desk 15, Chicago, Ill.

Angus Bulls for Sale.

On page 24 of this week's Homestead we begin the advertisement of Messrs. Green & Harris, of Fontanelle, Iowa, who are offering seven head of Aberdeen Angus bulls for sale at from \$75 to \$100. These bulls range in age from nine months to two years and belong to the Blackbird, Queen Mother and Princess tribes. They also breed Duroc Jersey hogs and have 250 head of spring pigs on hand. These are sired by Iowa Model, Kant Be Beat 2d, Fancy Orion and I Am Model, and they are out of daughters of Ohio Chief, Valley Chief and Proud Advance. They always have a lot of boars for sale that they will ship at any time. You can certainly buy an Angus bull right from these parties or a Duroc Jersey boar. When writing them kindly mention The Homestead.

The Chicago Combination Sale.

The Sidney B. Smith combination sale of Short-horn cattle, Aberdeen Angus and Herefords, at Chicago, will present a well-bred lot of good individuals of each breed. Mr. Smith desires to call the attention of our readers to the fact that the Short-horns will sell at ten o'clock in the morning of Wednesday, June 29th, and that the Aberdeen Angus will sell at one o'clock of the same day. The Hereford sale will take place on June 30th. The Aberdeen Angus offering consists of two consignments from the herds of Messrs. U. G. Weidman, of Bedford, Ind., and Frank E. Bensley, of Casey, Ill. The former gentleman is consigning a great animal in the cow, Raub Jane, a smooth, massive one weighing over 1,900 pounds. This cow has a last September heifer calf at foot and is again bred to Prince of Bedford. Mr. Weidman also puts in Peaches 2d, a good cow that sells with a high-class March bull calf at foot. Mr. Bensley's offering will consist of a type that makes good with both breeder and feeder. This bunch of Angus cattle should prove an attraction to breeders throughout the West. The consignment of Herefords includes a very attractive lot of bulls and cows. Mr. Hiltbrand, whose name is coincident with only the highest class of cattle, is contributing three top females and an extra good bull. One of the former is a show heifer that will make the best get up and hustle in the fall shows. These cows have been well handled and are in good condition. Mr. Grant Fitch, of Casey, Ill., sends forward eight bulls which combine the qualities demanded by breeders of high class and the requisites for herd headers. Mr. Fitch is also sending seven females that are good enough to find homes in the herds of the best breeders. Mr. J. B. Fernow, of Leesburg, Ohio, catalogs a consignment that will be up to the standard of those which he has previously sent to the great sales of Chicago and East St. Louis. Others to consign Herefords are Messrs. Lamson Bros., Big Rock, Ill., two bulls and three heifers; Charles E. Kurtz, North Salem, Ind., two bulls; E. P. Dow, Forest, Ind., six females. The Short-horn sale will send forward a lot of cattle that combine a wealth of breeding and individuality. The list of consignors is a long one and includes many prominent breeders. There will be Scotch and Scotch-topped bulls good enough for anybody. The cows are also of the right sort, coming from such herds as those of Messrs. J. F. Prather, Frank Harding and C. C. Nor-

ton. See the advertisement on page 28 and for catalogs write Mr. Sidney B. Smith, Springfield, Ill.

King Mastodon II. for Sale.

Messrs. Jackson Bros., of Montezuma, Iowa, are offering for sale King Mastodon II., a boar of August, 1909, farrow, bred by Mr. W. W. Wheeler and sired by King Mastodon and out of a sow by Columbia Chief. This boar is extra large for his age and has extra length. He will grow into a 1,000-pound boar easily. The price asked for him is \$50 and he is certainly a bargain at that figure. Anyone in need of a big-type boar and of big-type breeding should write at once to Messrs. Jackson Bros., of Montezuma, Iowa. Their advertisement will appear later in The Homestead.

Joseph Lyons' Poland Chinas.

A recent visit to the home of Mr. Joseph Lyons, Herman, Neb., by a Homestead field man, revealed fifty-five good spring pigs, some of which are as good as he has ever raised. These are sired by Grand Look 2d and Long Price. He also has a litter by Mastodon 4th that will make big fellows. Among the many good pigs that Mr. Lyons has this year is one by Grand Look 2d that will make a great herd boar for somebody. This pig has a ham on him as wide as one of Mr. Frank Iams' "wide-as-a-wagon" kind, and he is a nicely-finished pig in every way. He is as good a boar pig as Mr. Lyons has ever raised. There are a few more about the same age that are of the same kind. He also has a fine litter of seven pigs by Deer Grove Chief, one of the last sons of old Chief Tecumseh 3d. The sows in Mr. Lyons' herd are sired by Deer Grove Chief, Grand Look 2d, Big Victor, Black Prince and Prospect. One of the specially good litters is sired by Grand Look 2d and out of Tecumseh Lass, a granddaughter of Deer Grove Chief. Another fine litter is sired by a son of old Prospect and is out of Woodbine Maid 2d by Deer Grove Chief. Mr. Lyons is raising the "big-type Poland Chinas with quality combined," and he is going to have some good boars for the trade this fall. It would not be a bad idea to pick your pig now and have him keep it until fall. However, it will pay you

ARE YOU INTERESTED IN Colorado Irrigated Lands?

We have recently issued carefully prepared literature setting forth Colorado land conditions.

Midland Route



C. H. Speers, General Passenger Agent,
Denver, Colorado.

Our literature will be sent free upon application. Fill in, cut out and mail accompanying coupon.

Colorado Midland Ry., Denver, Colo.
I am interested in Colorado lands.
Name.....
Address.....

place at South Omaha sale pavilion on next Tuesday, June 28th.

Col. A. C. Manifold.

Col. Alva C. Manifold, of Tarkio, Mo., has a number of desirable open dates for fall sales that he would be pleased to submit to any of our readers who contemplate holding a fall sale. Colonel Manifold has enjoyed a good business during the past year, he has many

Fancy Klever, one of the best sows he has ever owned, has an extra good litter by Big Ex and one of his best spring boars is in this litter. Just now Mr. James is offering spring boars for sale and if you are wanting a herd boar for this fall now is the time to buy one. He also offers splendid sows bred for fall litter and these are strictly all right. When writing Mr. James (and we would advise you to place your order with him at once) kindly mention this paper.

A Car with Power.

Farmers who invest good money in automobiles should above all things make sure that the car they buy has sufficient power to get up the steepest hills. This is a point of highest importance. A machine which will not get up a hill is practically worthless and should therefore be let alone. In this respect, particular attention is called to the Mora car, as advertised on page 2 of this paper. The Mora engines are made particularly large and strong. They are guaranteed to go wherever the owner wants to go, up hill, down hill or across the country. A Mora will go through a plowed field either at a slow pace or a rapid one. It is built in answer to every requirement of the farm work. In order that farmers may learn of its efficiency the manufacturers have determined upon an extraordinarily liberal plan of introducing it into new communities. This plan will save the buyer practically an agent's commission. It may be earned by filling out the coupon to be found in the corner of the advertisement and forwarding it at once to the Mora Company, 444 Mora Place, Newark, N. Y.

Davis Bros.' Angus and Poland Chinas.

Messrs. Davis Bros., of Maryville, Mo., maintain one of the high-class breeding herds of Aberdeen Angus cattle in the corn belt. For several years they have been constantly improving their herd by the weeding out process and the addition of high-class animals until today theirs is a herd that is good from end to end, although not so large as many herds. Both the Davis Bros. are cattle men, they are in the business because they like good cattle and theirs is a high-class working herd. They have at all times paid particular attention to individual merit and have been known as discriminating buyers when selecting cattle to add to their breeding herd. They have sought cattle of the very best breeding and as a result their herd is made up of individuals that are exceptionally well bred. Grand breeding matrons of the Pride K. Pride, Erica, Blackbird, Queen Mother, Mina and Westertown Rose tribes are found in the herd. Blackward R., a high-class Blackbird bull got by Edward R., one of the best Erica bulls in America, heads the herd. He is an exceptionally strong-type bull, set close to the ground, with strong heart and chest measurements, good quarters and the breed head so essential in a herd bull. Best of all he imparts his quality to his get, getting both good bulls and good females. Just now Messrs. Davis Bros. have a number of very desirable young bulls for sale. Among these are found a Pride and a Westertown Rose that are ready for light service. The Pride was got by Black Pedro, he by Prince Ito. His dam was Imp. Pride of Aberdeen, a grand good brood cow. He is the kind that makes good where a good stock bull is wanted. The Westertown Rose is by Blackward R. and a bull that will do good service. A young K. Pride by Blackward R. and out of Imp. Kindness of Aguhorst is a bull that should go to head some high-class herd. He is even in all his lines, has the depth of carcass, is full around heart, has an extra good covering of flesh over back and loin and is set on good short legs. A Queen Mother sired by Bermerton by Prince Ito 2d and out of a full sister to Black Martha, the Donohue show heifer by Black Woodlawn, is a strongly-bred Blackbird Queen Mother youngster that should please some critical buyer. An excep-

NEXT WEEK'S SALE PROGRAM

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| Tuesday,
June 28 | { Holstein-Friesians, Henry C. Glissman, South Omaha, Neb.
Percherons, H. G. McMillan & Sons, Sioux City, Iowa. |
| Wednesday,
June 29 | { Short-horns, Polled Durhams and Aberdeen Angus, Combination Sale, Sidney B. Smith, Sale Manager, Chicago, Ill. |
| Thursday,
June 30 | { Herefords, Combination Sale, Sidney B. Smith, Sale Manager, Chicago, Ill.
Jerseys, Kinloch Farms, B. C. Settles, Sale Manager, Kirksville, Mo. |

to visit his herd and look over these pigs. Later in the season we will tell you more about the Lyons Herd.

A Kansas Live Stock Auctioneer.

Mr. Thomas Darcey, of Offerle, Kan., is a new candidate for public favor, as will be noted in his advertisement on page 24 of this issue. The fact that Col. Darcey has been a member of his profession for nearly twenty years should certainly exert an influence in his favor. He has built up an excellent patronage and is still in the field for additional sales. For rates, dates or other information write him at the address given above.

John Stolz's B. & C's Cols.

A Homestead man visited Mr. John Stolz, of Woodbine, Iowa, (he lives six miles northwest of Portsmouth, Iowa,) and found him with ninety head of spring pigs, among which is a good litter of ten pigs—five boars and five sows—by B. & C's Col. There were eleven pigs in the litter, with ten raised, and they are out of Inventor's Ohio Belle. There are some good pigs in this bunch and the breeder who is looking for a B. & C's Col. boar to head his herd won't make any mistake in writing Mr. John Stolz or visiting his herd and allowing him to book you one of these pigs. He also has some good litters by King the Col. Model's Choice, Col's Model, Lincoln Wonder and Royal Critic. Mr. Stolz's postoffice address is Woodbine, but he lives about six miles northeast of Portsmouth, Iowa.

Last Call for Glissman's Great Holstein Sale.

The public sale of Mr. Henry C. Glissman, at South Omaha, Neb., on Tuesday, June 28th, promises to be one of the greatest dairy cattle sales held in the West in recent years. One hundred head, fifty of which are cows or heifers in milk or soon fresh, together with twenty-five heifer calves and twenty-five bulls, certainly furnishes an opportunity to buy registered Holstein-Friesians, and buy them at your own prices. This is positively the best lot of cattle ever consigned from the Rock Brook Farm. A number of the cows are bred to bulls whose dams have A. R. O. records up to 301, daughters and granddaughters of Dykstra Beauty Lad, champion bull of 1909. There will be a number of granddaughters of Hengerfeld De Kol, Paul Beets De Kol and others of note. These cattle are of the true dairy type and it may be a long time indeed when such another offering of Holstein-Friesians will be sold in the West. Make it a point to be present at this sale. Remember it takes

sales booked for the coming season and is in better position to render efficient service than ever before. See Colonel Manifold's advertisement on page 24.

Choice Hereford Bulls.

On page 26 Messrs. Edmonds, Shade & Co., of Kingsley, Iowa, are offering a splendid lot of young Hereford bulls for sale, any one of which is good enough to head a good herd. These are sired by Imp. Albany, Columbus 35th and their other well-known herd bulls. They also offer to sell any two of their herd bulls. You can certainly buy a good Hereford bull from the above firm and one that will help make the reputation of your herd. When writing them about these bulls kindly mention The Homestead.

J. O. James and His Pawnee Lads.

It is with pleasure that we call our readers' attention to the advertisement of Mr. J. O. James, of Braddyville, Iowa, on page 24 of this week's issue. Mr. James is now offering fifty head of spring boars for sale, together with a choice lot of yearling and matured sows bred for fall litter, as well as a splendid lot of spring gilts. The James herd has been prominent in Iowa for a number of years because of the fact that here is the home of the celebrated big-type boar, Pawnee Lad. This hog has long since been recognized as one of the greatest Poland China boars in the West, and there are today more of his sons at the head of good herds than any other one boar in the West. He is a hog that sires plenty of size, with bone and quality combined, and that is what they are all looking for today. Another great sire now used in the herd is Big Ex 47717, a double-bred Expansion boar, and the crop of pigs by him now on the place have surpassed their fondest expectations. Then he also has Max Dude, sweepstakes boar at the Nebraska State Fair. Mr. James has 140 head of spring pigs, nearly all of which are sired by these three boars, and it is as good a bunch as we have ever seen in this well-known herd at this time. Among his best litters are three pigs by Pawnee Lad and out of the noted brood sow, Anna Price 2d. Big Marie, another one of his best sows, farrowed twelve and is raising seven by Pawnee Lad. Black Giant, a Giantess-bred sow, has another good litter by Lad, and Model of 1907 and Anna Price 9th have two extra choice litters by Big Ex. One of the choicest litters is by Pawnee Lad and out of old Lady Longfellow, and there are some strictly good herd boar prospects in this litter.

tionally smooth Pride and a Mina, both by Blackward R., are youngsters that will please. Messrs. Davis Bros. price their stock worth the money. They furthermore stand squarely behind the cattle they sell and the buyer gets the benefit of their best judgment in breeding for results. They also have a nice herd of big-type Poland Chinas selected with the same care as their cattle and are prepared to furnish either boars or gilts of spring farrow. If you want either Aberdeen Angus bulls or Poland Chinas do not fail to write them or go and see their herds. Their stock will please you. See this page for their advertisement and when writing them kindly mention this paper.

McClarnon's Poland Chinas.

Another one of the good, big-type-with-quality-combined herds of Poland Chinas in southern Iowa is that of Mr. L. R. McClarnon, of Braddyville. This year he has 100 good spring pigs and a very choice lot of fall sows. These are sired by Big King, a most excellent son of Pawnee Lad, and one of the thickest boars we have ever seen; also by Max Dude, the sweepstakes Nebraska State Fair boar. Mr. McClarnon has had a string of tried brood sows that never fail him when it comes to farrowing and raising pigs. Among these is old Fussy, Fussy 2d and Fussy 4th, and they all have good litters this year. In the brood sow line he has a splendid lot of daughters of Pawnee Lad, Big Hadley 2d, Max Dude and Grand Wonder. His herd is made up of the big-type-big-boned kind and he has what he claims he has. In fact he has one of the best herds in southern Iowa. He will make a fall sale on October 6th, when we will have more to say about his herd.

Col. H. S. Duncan, Auctioneer.

Those of our readers who are contemplating holding sales this fall and winter and need a first-class auctioneer are requested to correspond with Mr. H. S. Duncan or his brother, W. B. Duncan, at Clearfield, Iowa. Mr. Harve Duncan is known as one of the most capable auctioneers in the business and he has to his credit the record of having made some of the best sales that has ever been pulled off in the West. There is not a better Poland China salesman today in the West nor the East and he is equally good on the various other breeds. Mr. W. B. Duncan, while not before the public quite as long as Mr. Harve Duncan, is nevertheless one of the coming auctioneers, and he is today selling for some of the best breeders in Illinois, Iowa, Missouri, Kansas and Nebraska. His work has been eminently satisfactory to those for whom he has sold stock. These gentlemen have a few open dates for fall and winter and they will be pleased to hear from those breeders who are wanting a first-class auctioneer to cry their sales.

At the Home of A Wonder.

A Homestead representative recently visited Mr. H. Fesenmeyer, of Clarinda, Iowa, the present owner of the sensational big-type Poland China boar, A Wonder, and found everything in nice shape. A Wonder is looking as good as we have ever seen him and he is working well. This boar is possibly one of the best-advertised and best big-type boars in the state of Iowa and the West. Mr. Fesenmeyer purchased him at the closing-out sale of Mr. W. W. Wheeler at a long price and he has proven the greatest find that has ever come into southern Iowa. The demand for A Wonder boars or sows bred to him has been phenomenal, and the orders come from all parts of the United States. Mr. Fesenmeyer is selling a few sows bred to him for fall litter, and he has about fifty spring pigs of March and April farrow that are sired by Chieftain and Model Chief and these he is also selling at any time. If you buy one of these pigs now you can buy them right. The Fesenmeyer herd is of the strictly big-type kind and it is an excellent place to buy a boar or a bred sow. When writing him kindly mention The Homestead. See this page.

Kinloch Farms Jersey Sale.

In the sale of Jersey cattle to be held at Kinloch Farms, Kirksville, Mo., on Thursday, June 30th, there is listed more high-class stock than has ever gone through a western sale of this sort. The dairymen of the country are to be given an opportunity to select from the 150 head listed a class of breeding stock that will add greatly to their herds. Doctors Still and Laughlin have always stuck to the cows that were actual performers. Many great butter producers have been developed in the Kinloch herd and when Dr. Still made the selection of the 100 head of imported cattle on the Island of Jersey, he evidently remembered those heavy-milking, high-testing cows at home, as he bought this kind only, or heifers that gave promise of great development. The dairymen who want a few choice young cows should not miss inspecting this great offering, the number to be sold is larger than is often found in a sale, hence it is not expected that high prices will prevail. Seventy-five cows in milk are listed, and a grander lot would be hard to find. They are, furthermore, all young, many being heifers under three years of age and showing udder development such as is only found on the high-class dairy cow. There are sixty heifers in the sale that are well along in calf to great bulls. Those that have calved are bred again, many to Viola's Golden Jolly, the greatest Jersey bull of today, for which the Kinloch people paid \$12,000. Some are bred to Beatrice Stockwell or Financial Countess Lad, two bulls of exceptional merit that are listed for the sale. There is not an animal listed that does not show promise. The 100 head Dr. Still selected personally on the island for importation were bought

from the better breeders. The udder development was evidently a first consideration with Dr. Still, as the cows in milk show wonderful development for such young cows. Our readers interested in this superior dairy breed should send at once to the Kinloch Farms, Kirksville, Mo., for a catalog. Kindly mention The Homestead when doing so. See page 28 for advertisement.

Lee Gross' Poland Chinas.

Mr. Lee Gross, of Nodaway, Mo., one of Missouri's foremost breeders of the big, smooth Poland China, has this year an exceptionally fine string of pigs. At the Wheeler Dispersion in Iowa Mr. Gross bought Mr. Wheeler's greatest brood sow, Proud Wonder 4th. She is raising five boars and two sows by A Wonder that are corking good ones. There are herd headers here. Other sows in Mr. Gross' herd are by such boars as Grand Look, Long John, Wagner's Giant, Expansion, Union Leader and Kansas Wonderful Chief. Heading this good herd is Expansion's Son by old Expansion and out of a daughter of Mr. Ben Bell's great sow sire, What's Ex. Few such boars are found. He has quality, is plenty large and is about as well made a boar as is often found. A large part of Mr. Gross' pigs are by this boar and they show that it pays to use a high-class sire. On November 10th Mr. Gross will hold a sale of boars and on February 15th he will sell a select line of bred sows. Watch these columns for future notes regarding Mr. Gross' Poland Chinas.

Is Earning \$10,000 a Year.

How would you like to earn an annual income of \$10,000 on an original investment of \$100? That happened to Mr. Boyd Newcom, of Wichita, Kan., one of the graduates of Jones' National School of Auctioneering, and in the advertisement which appears on this page of this paper Mr. Newcom tells the story. What he has accomplished others can do. This school, the pioneer and most thoroughly equipped in its class, has graduates successfully practicing their profession in nearly every state of the Union, as well as in Canada. The work is thorough in every particular, and when the scholar leaves he is equipped to successfully follow the profession of an auctioneer, an occupation that possibly offers today as many opportunities for rapid advancement and lucrative returns as any in the country. A handsome catalog has been issued giving full particulars regarding this successful institution. It will be mailed free to any address. Kindly mention this paper and address Carey M. Jones, 2856 Washington Blvd., Chicago, Ill.

Some Excellent Poland China Fall Boars for Sale.

The breeder or the farmer who wants to buy a good Poland China fall boar is urgently requested to read the advertisement of Mr. John B. Lawson, of Clarinda, Iowa, on this page. He is offering twelve head of big, lusty fall boars, nearly all sired by his noted herd boar, Prospect, and out of such noted big-type sows as Lady Jumbo, Lady Jumbo 1st, Lady Jumbo 2d, Big Mariah, Big Jumbo's Equal and Anna Price 3d. Such an array of strictly big-type sows is seldom seen in any one herd in the state or the West, and they have never failed to produce the good ones. The two highest-priced fall boars sold in the state of Iowa last fall came from the John B. Lawson herd, and he has three full brothers to them in those that he is now offering for sale. One of those went to head the R. W. Halford herd at \$142.50 and the other went to head the George Seffrit herd at Lucas, Iowa. Mr. M. T. White, representative of this paper, saw these boars and says they are the best and most uniform bunch of fall boars seen in his travels this summer. The man that will send Mr. Lawson an order for one of these will be pleased with his purchase when he gets him. Mr. Lawson also offers twenty-five head of spring boars for sale sired by Prospect and out of the same sows. Don't put off writing Mr. Lawson if you want one of these boars, but do it at once. Kindly mention this paper when writing him.

Hazebrook's Short-horns.

A representative of this paper recently called on Mr. W. A. Hazebrook, breeder of Short-horn cattle at Bladen, Neb. This gentleman has a fine herd of Short-horns of fashionable lines of breeding. The foundation stock was procured mostly from the Bellows herd, of Maryville, Mo., and an inspection demonstrates the fact that they have not made any backward progress in Mr. Hazebrook's herd. That gentleman is a practical cattleman in every sense of the word. He expects to make a dispersion sale of his herd December 15th, next, and the event will certainly be one worth the attention of those interested in good cattle. The herd is headed by Royal Grove, a massive, dark red four-year-old by Master of the Grove. It will be remembered that the latter, in the hands of Messrs. Bellows, was not only a great sire, but a show bull that proved his superiority by winning grand championship at the International Live Stock Exposition of 1904. Royal Grove has many of the characteristics of his great sire and is truly an outstanding bull. Among the good sows in the herd might be mentioned Rose Chancellor, sire Chancellor by Hampton's Best, dam Rose Tulip 4th by Romulus. This cow has a show calf at foot by Royal Grove. Another good one is the Peerless Victoria, sire Victor Knight, dam Peerless Gussie by Barmpton Chief. Others are Morning Bell by Royal Dale, Lady Gloster by Chief Sultan, Lavender Secret by Lavender Viscount, Village Beauty by Gul-

\$10,000 a Year on a \$100 Investment

Learn Auctioneering at the World's Greatest School and be Independent. Read This Record.

Wichita, Kan., June 3, 1910. Carey M. Jones, Chicago, Ill. Dear Friend:—Business with me is wonderfully good. In fact, the best business I have ever had has been since March 1st. I am selling a great many stocks of implements at auction. I enclose a sale bill of stock for June 11th which will make me at least \$500 for my services. I have several dates ahead that will make me from \$200 to \$500 per day. Have built up a wonderful business and feel sure that my commissions for this year will nearly if not quite reach the \$10,000 mark. Thanking you for past favors, and with best wishes to you and all of the faculty, I remain, Very truly yours, BOYD NEWCOM.

The next and only summer term at JONES' NATIONAL SCHOOL OF AUCTIONEERING OPENS JULY 25TH. Write today for handsome catalog which tells you how you can become a successful member of America's most lucrative and least crowded profession. Mention this paper and address

CAREY M. JONES, President, 2856 Washington Blvd., CHICAGO, ILL.

TOO LATE TO CLASSIFY.

12 BIG-TYPE FALL POLAND CHINA BOARS

I AM offering for sale 12 head of excellent fall boars, sired by Prospect and out of Lady Jumbo, Lady Jumbo 1st, Lady Jumbo 2d, Big Mariah, Big Jumbo's Equal and Anna Price 3d. Three of these are full brothers to the highest priced fall boars sold in the state of Iowa last year. I also have 25 splendid big-type spring boars for sale. If you want a choice boar write me at once.

JOHN B. LAWSON

CLARINDA, IOWA.

tan's Hero, Rose Lovat 2d by Lovat Champion. Additional particulars concerning this herd will be presented in later issues of this paper.

Jess Madison's Durocs.

It is not a large crop of pigs that Mr. Jess Madison, of Nevinville, Iowa, has on hand this year, but we never did find him without some good ones. He has about twenty-five head of fall boars and gilts and about forty to fifty spring pigs altogether. The most of these are sired by his splendid herd boar, Valley King. This boar is one of the best sons of the noted Valley Chief and he is a better hog today than at any history of his career. As a sire he stands among the best breeding boars in the state and his pigs always have a good come out to them. Mr. Madison will make a fall sale in the early part of November at which time he will sell both boars and sows and he will not make a winter sale.

Chapin & Nordstrum's Bred Sows.

When Mr. Grant Chapin, of Green, Kan., entered the ranks of the Duroc breeder, the development of the Duroc in Mr. Chapin's section of the country received a boost that has been of untold good to the breed. Later Mr. Chapin formed a partnership with Mr. Nordstrum, the firm name being Chapin & Nordstrum. The same lines of breeding and many of the same hogs that made the Chapin herd famous are found in the present herd. Stretch, scale and quality are found in the Durocs these gentlemen breed. The Col. strains predominate, this line of breeding having been secured largely through King of Cols. II. and G. C.'s Col., both sons of the immortal King of Cols. G. C.'s Kan. Col., a son of G. C.'s Col., has been their leading herd boar and a great string of sows and gilts by him are found in the herd. Many of these are bred to a son of King of Cols. II., out of a daughter of the great W. L. A.'s Choice Goods. This cross proved good and the breeder who buys sows so richly bred as are these and mated to such a boar will not go wrong. This is true of the Chapin & Nordstrum herd, as they have the good foundation stock, grow their stock well and send out only such as measure to a high standard of individual excellence. They have thirty bred sows to sell, all are bred for fall litters and our readers who want bred sows will find this a good herd to patronize. See page 25 for their advertisement and when writing them kindly mention this paper.

An Improved Hay Loading Device.

Our readers cannot fail to become interested in the hay loader hay car illustrated herewith. It is the most modern and up-to-date device which has been presented for the purpose of eliminating the hard work of transferring hay from the loader to the wagon. The illustration affords an excellent description. This hay loader hay car not only takes the hay from the loader quickly and easily, but it puts it on the rack in such shape that it comes off clean and makes stacking or moving easy. Perhaps the best en-



dorsement that could be given it is a letter written by Mr. John Lincoln-felter, of Denmark, Iowa. After having used one of these hay cars he says: "The hay car which I have used during the past season is the finest thing I ever saw to load hay with a loader and to fork off. It comes off clean from the rack and doesn't get the load all torn up. I have two boys, fifteen and sixteen; one can load as well as the other. They think it is fine. They would just as soon put up hay with the hay car as to plow corn." A price list and descriptive circular may be had by writing to the Spartan Mfg. Co., Dept. 61, Pontiac, Ill. See page 5.

Ask your neighbor to subscribe for The Homestead.

ANGUS BULLS

WE have 7 young Aberdeen Angus bulls from nine months to two years of age of the Blackbird, Queen Mother and Princess families that we will sell right. Price \$75 to \$100 if taken soon.

DUROC JERSEY BOARS

We have 50 head of Duroc Jersey spring and fall boars for sale at farmers' prices. Write us at once.

GREEN & HARRIS, FONTANELLE, IOWA

Guernsey Bull FOR SALE

Glenwood's Reputation 3d, dropped October 8, 1906. Dam made 568 pounds butter in a year. Price \$150. Also yearling bull and a few cows for sale.

J. GILBERT HICKCOX, Box 83, Whitefish Bay, Wisconsin.

SUNNY VALLEY GUERNSEYS

Only a very few for sale—but come and see us anyway

W. M. JONES, WAUKESHA, WIS.

50 BIG-TYPE POLAND CHINA BOARS FOR SALE

Sires in service. Pawnee Lad 30853, the greatest big-type boar today in the state of Iowa and the sire of more herd boars than any other hog in the West. Big Ex 4717, a double-bred Expansion boar and Max Dude 470482, sweepstakes boar at Nebraska State Fair. I have 50 choice boars for sale and a splendid lot of sows bred for fall litters to the above hogs. If you are looking for a boar to head your herd or a few choice bred sows, write me. I have what you want. J. O. JAMES - BRADYVILLE, IOWA.

ABERDEEN ANGUS

Bulls for sale. 3 Prides, 1 a K. Pride, 1 Queen Mother, 1 Westertown Rose. Mostly by Blackward R., a high-class Erica topped Blackbird bull. Also big, smooth Poland Chinas. Come and see the herds. DAVIS BROS., Maryville, Mo.

The Home of A WONDER 107353

THE largest and the most widely advertised big-type boar living. Boars and sows for sale at private sale at all times. Write me at once. H. FESEMEYER - CLARINDA, IOWA.

LIVE STOCK AUCTIONEERS.

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CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

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EIGHTEEN years' experience. Write me for dates. Copies of my live stock poems free when stamp is enclosed. Am booking fall, winter and spring dates.

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AUGUST 1, 1910, is opening date at Trenton, Mo., for our next term. Additional instructors, selected from America's leading auctioneers, have been engaged to instruct and lecture during this term. No other profession paying better can be attained at ten times the expense and time, either legal, medical or otherwise, for those who will apply themselves. Our correspondence course is greatly appreciated by those who cannot attend personally. Illustrated catalogs of either course for the asking. WM. B. CARPENTER, Pres., Trenton, Mo., or Oklahoma City, Okla.

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Col. Carey M. Jones

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AUCTIONEER AND EXPERT JUDGE. Have judged at Illinois and Iowa State Fairs. Have sold for the best breeders of the central West the past three years and have them rebooked. Posted on pedigrees and values. Sales made anywhere. Terms \$20 and expenses. I always deliver the goods. Write me for dates at Sunny Hill, Ill.

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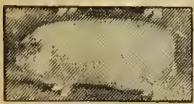
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LIVE STOCK AUCTIONEER. YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

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LIVE STOCK AUCTIONEER. Thoroughly posted as to pedigrees and values. Write for dates. Terms reasonable.

CHESTER WHITE SWINE.



High Quality Chester Whites

CHOICE winter pigs weighing 160 pounds and a fine lot of spring pigs ready to ship at any time. Fair prices all the time. D. H. LEWIS, GENESEO, ILLINOIS

CHESTER WHITE FALL BOARS

I HAVE a few choice fall boars, old enough for service, and will quote low prices on them. Sows and gilts are all sold. S. J. PHILSON, Rome 6, Harlan, Iowa.

35 CHESTER WHITE BOARS AND SOWS

FOR SALE—Extra good ones, sired by Buster 19085. A son of Combination out of daughters of the noted prize winner, Modeller. Prices reasonable. John F. Holst, Jr., Denison, Iowa.

O. L. C. WHITES, Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. Fred Rinebush, Sciota, Ill.

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. B. J. Trumbauer, St. Charles, Iowa

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POLAND CHINA SWINE.

McINTYRE'S BIG-BONED POLAND CHINAS

SPRING yearling sows bred for June and July farrow; tried sows bred for August and September. A few yearling boars, 50 choice September, 1909, boars and gilts, and boars and gilts of March and April, 1910, farrow, to be delivered at 3 to 5 months old. Blood of P. W. Giant, Hadley, Jumbo and Victor. Foundation stuff or new blood. F. W. MCINTYRE, Route 5, RED OAK, IOWA.

BIG-TYPE POLAND CHINAS With Big-Type Blood Lines

SIXTY head of bred sows averaged \$66.87 at our last sale, supreme evidence of the kind we breed and sell. Our herd is made up of the most noted animals of the type and breed. Spring pigs of either sex by Big Ex. (the 1,070-pound son of Pawnee Chief). Superior Look (a great son of Grand Look), and Chief Price (the big yearling with a 10-inch bone), a trio of boars with few equals in the corn belt. Write for special prices on small herds not akin. W. H. COOPER - HEDRICK, IOWA.

WILLIAMS BROS.' POLAND CHINAS

THE LARGE TYPE, WITH QUALITY COMBINED. 275 SPRING BOARS and GILTS, and a number of fall boars for sale. These are sired by W. S. Major 45234, Young Look 47722, Pawnee Price 47721 and Villisca Chief. SPECIAL PRICES. We are offering spring boar pigs and gilts at \$25 each, and we guarantee satisfaction. Also some extra choice fall boars. Address WILLIAMS BROS. VILLISCA, IOWA.

12 Fall Boars--25 Spring Boars

I AM offering a splendid lot of big-type, big-boned fall and spring boars for sale, sired by B. Wonder, A Wonder, Orange King and Big Ex. Address J. G. LONG - HARLAN, IOWA.

FALL BOARS FOR SALE

I am now offering some splendid fall boars for sale sired by my noted show and breeding boar Big Victor and out of my best sows. Address D. C. LONGHEAD, Florence, Nebraska.

32 FALL BOARS

I HAVE 32 excellent fall boars for sale, sired by Big Jerico and Model Chief out of my largest big-type sows. These are big-boned fellows. Also spring boars for sale. Address CHAS. W. HEDRICK, ATLANTIC, IOWA.

MEISNER'S BIG POLAND CHINAS

HERD headed by Metal Choice by Missouri's Metal by Bell Metal. Big-type sows by Big Hadley, Pawnee Chief, Nebraska Jumbo, etc. Fine lot of pigs now on hand. Inspection invited. T. J. MEISNER, SABBETHA, KANSAS.

POLAND China herd headers; 2 extra good, large type P. C. fall boars for sale; sired by Tecumseh Surprise; dams by De Pew. If you want a good one write George Glynn, Sioux Rapids, Ia., for prices.

DUROC JERSEY SWINE.

E. KRUGER'S CHIEF 81867 FOR SALE

Farrowed March 19, 1908; 8 in litter.

Kruger Lad 43581 { Kruger 17933
Orion Lady 70940

Chief La Belle 152364 { Ohio Chief 41419
Nebraska Belle 49206

I am through with the above boar and will sell him. Look at his pedigree and the winners behind him: Kruger Lad, Kruger, Ohio Chief and Nebraska Belle. He is a splendid breeder. Write me about him.

J. E. WEHR, PORTSMOUTH, IOWA

HIGH-CLASS DUROC JERSEY BOARS

I have five September boars sired by the sweepstakes boar, Crimson Wonder Again, and out of H. A.'s Queen for sale that are sensational herd boar propositions. Also a number of other good boars. Write or come and see me. W. M. SELLS, INDIANOLA, IOWA.

Helen's Chief High Notcher

and Glad Col. head my herd of Durocs. Write for what you want.

M. A. KRASCHEL, MACON, ILLINOIS.

Fall Males and Gilts FOR SALE

Sired by Defender and others out of the dam of Defender. Prices reasonable for such breeding and stuff of much quality. Mention The Homestead. FRED BROWN, LOAMI, ILLINOIS.

Do You Need a Boar

I HAVE good ones by S. E.'s Model 80743 by Model Chief, dam by Advancer. The dams of these boars are by Keep On Ill., Proud Advance and others equally as good. These males have quality and some are fit to go into the best herds in the land. Will price them cheap. My spring pigs are extra good, and of the best breeding. Write me or come and see. Please mention The Homestead. S. E. EATLE, PROPHETSTOWN, ILL.

FALL BOARS FOR SALE

BYO. & I. 82341, a line bred Col. and Protection boar of show yard quality; dams by Buddy K. IV. and Ambition. A few fall gilts, either open or will breed them. Also have 3 Scotch-topped Double Standard Polled Durham bulls for sale. Please mention The Homestead. Address MENAUGH BROS. - MAZON, ILLINOIS.

HUFF'S DUROCS

HUFF'S Advance, Brighton Wonder, Buddy's Improver. A few choice September boars for sale. The "Always Better Kind." C. W. HUFF - MONDAMIN, IOWA.

DUROC JERSEY SWINE.

30 Duroc Gilts 30

Summer and fall farrow. Sired by G. C.'s Kan. Col. Bred to son of King of Cols. II. and W. L. A.'s Choice Goods dam, few to Nebraska Wonder, Crimson Wonder's best son. Also fall boars, same breeding.

CHAPIN & NORDSTRUM, Green, Kan.

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BREEDERS OF DUROC JERSEY SWINE

100 SPRING pigs; two litters by Defender, one litter by Golden Model II.; others by King's Col. S. E.'s Model, J. I. C., Col. Stoner, Emos Inventor and others. Orders booked. Stock always for sale. Please mention The Homestead.

DUROC JERSEYS

Thirty fall boars and ten gilts sired by Col. King, dams by Arthur's Choice, Proud Advance, Inventor, Commodore and Tokio Paul. Would also sell Arthur's Choice, the pig that cleaned the first prizes at the Illinois State Fair, 1907. This stuff is growthy, but not fat. Arthur L. Parks, Leland, Ill.

The Sugar Loaf Duroc Jersey Herd

Col. S. and Ohio Chief's Banner HEAD HERD

A few gilts bred to the above boars for sale. Address C. C. Cushman, Mgr., Chillicothe, Ohio.

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Ten fall males ready for service, by Champion Paul II. Dams of choice breeding. Will price them worth the money if ordered at once.

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For Sale--12 Extra Choice Fall Boars

If you need an extra good Duroc boar we have them by Manley Orion's Son by Manley Orion, dam by Keep On Ill. These pigs are out of dams by Educator, Champion Paul and others. Will be priced worth the money and are fit for immediate service. Address

GEO. L. MILLER, COAL VALLEY, ILL.

Care of Buck & Miller.

EDWIN HUMMER

KALONA AND IOWA CITY, IOWA.

Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.

ALL STOCK PRICED REASONABLY.

Write Your Wants.

20 Duroc Boars 20

Got by King of Cols. II. and G. C.'s Col. Dams are Model Chief Again sows. All are good, of summer and fall 1909 farrow. Spring pigs doing fine. Address

FRANK ELDER, GREEN, KANSAS.

Real Reds to "Show You"

OUR crop of spring boars (sows are all reserved) carry the blood of King of Cols., Ohio Chief, Model Chief, etc., through strains of prize winners. They are right. Orders booked now.

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DUROC JERSEY BOARS

I HAVE four splendid fall boars for sale, sired by Town Model and out of Missouri Girl II.; long, wide and heavy-boned fellows. Also booking orders for spring boars. Prices, \$25 to \$50. Address MARK W. EDDY, FONTANELLE, IOWA.

FOR SALE--20 FALL SOWS Bred to the champions, B. & C.'s Col. and Crimson Wonder III. They are sired by B. & C.'s Col., Col. S. and McNeil's Model. Price \$50 to \$65. First come, first served. Address (Ed. A. Baxter, Pawnee, Illinois. Address R. L. Conner, Carlinville, Illinois.

MIDLAND Herd Duroc Jerseys. Bred sows all sold. Yearling boar for sale. Orders booked for spring pigs, July delivery. S. J. Butts, Mason City, Ia.

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MAPLE LEAF HERD OF HAMPSHIRE



My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both championships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.

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Blue Ribbon Hampshires

WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**



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MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, **E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.**

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A good lot of March and April pigs for sale, from fashionable families.

Write
GEO. LIPPERT, MAGNOLIA, ILL.

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I AM now booking orders for spring pigs—male and female—and will begin to ship about June 1st. They are by four different sires and represent the strains with which I won championship on pen of barrows at the International show of 1909.

JOHN GOODWINE, POTOMAC, ILL.

Hampshire Swine

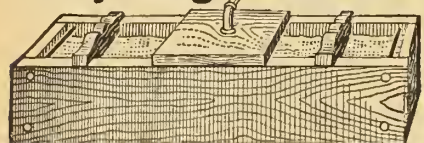
FOR SALE. Four extra choice Hampshire boars of September farrow and twelve equally as good gilts by Kentucky King 1165, champion three state fairs, and Joseph 2223. These gilts are bred for September farrow to above boars. My herd won thirty-three prizes Ohio and Kentucky state fairs, including champion sow. Prices right for first-class stock.

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WE have for sale young boars, ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

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THE ONLY does the business both winter and summer. No clogging, no overflow, no bother. We offer you a free trial. Write for booklet, "How to Raise 1,000 Hogs a Year."

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IMP. MARCH ON 76035, Father of All March Ons, now in Brookmont Herd.

CHOICE YOUNG HEIFERS

with calf at foot are a special offering just now. We also have a superior lot of bulls, ten months to two years old, excellent in breeding, individuality and type. You can have them at just about your own price.

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We are offering 20 young bulls of the strictly herd heading kind, sired by our noted herd bulls. Also 25 fall boars sired by the celebrated Carl's Col. Write us or come and see us.

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Polled Herefords

WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.

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Originators of Polled Herefords.

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I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address

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OF both sexes. One herd bull and some horned cows bred to Success 4th, one of the best bulls of the breed. **W. H. Campbell, Grand River, Ia.**

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TEN young bulls for sale. Good individuals and the best of breeding. For prices and description visit or write to

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THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.

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A FEW good bulls of herd header build, from 14 to 20 months old; very best of blood lines; good individuals and priced to sell. Write me before buying.

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GOOD young cattle, bulls or heifers, for sale. Herd headed by Improver's Hesiod 107727. Blood lines of popular strains.

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Figure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

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Registered and high-grade Holsteins, Guernseys and Jerseys, singly or in carload lots. State your wants.

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LAKE MILLS, WIS. 100 HEAD. A few grandsons of Hengerveld De Kol to offer from A. R. O. dams. High grades in carload lots that show quality and breeding. Barn a few rods from C. & N. W. Ry. **WM. EVERSON & SONS.**

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Cows and heifers any age. Bulls fit for service.

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EIGHTY HEAD IN HERD. WE GUARANTEE OUR STOCK.

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WE offer for sale young cows, some A. R. O.; bull calves and bulls of serviceable age, all of A. R. O. breeding. Write for description and prices.

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You have heard of them: Yeksa Sunbeam, Standard's Morning Glory, Penthesilia, Yeksa Rose and others of the Materna and Yeksa families. A small lot of bull calves and yearlings are on our new list just issued. The proper kind for the breeder and dairyman.

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Males and Females for Sale

WRITE TODAY.

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GUERNSEY HEIFERS

They are as good as could be bought on the Island.

Yearlings and two-year-olds, at from \$200 up.

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Bred for Production. Ninety Head in Herd.

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A FEW YOUNG BULLS FOR SALE. SEND FOR SALE LIST.

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Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED. A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stranford 3356, a son of Stranford's Princess A. R. 199, with 75 lbs. fat. He is a half brother to Dairyland of Pinchurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale.

Ben Clark & Son, R. 1, Whitewater, Wis.

FOR SALE Two registered Guernsey bull calves, thirteen and seven months old. **M. T. Lave, Garner, Iowa.**

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COWS or heifers in any number. They show quality and breeding. **NO CHEAP STUFF.** State exactly what you want.

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RED POLLED BULLS

TWO yearlings and some younger ones. Also offer our herd bull, Advancer, by Protector. Write for description, breeding and prices.

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CHOICE RED POLLS FOR SALE

SINGLY or in car lots. Best of breeding, good individuals and splendid milkers. These cattle are priced to sell.

Wendell Heil & Sons, Cedar Creek, Neb.

RED POLLED BULLS AND HEIFERS

I AM offering 10 head of splendid bulls for sale, ranging in age from ten months to four years; 25 head of excellent cows and heifers, all of which are hand milked. Can sell carload if wanted. Address **C. A. CRAWFORD - ANTHON, IOWA.**

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ONE 3-year-old, one 2-year-old, 2 yearlings and several younger bulls. Extra quality. **GTS C. SEAMAN, Route 5, DAVENPORT, IOWA.**

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reasonable prices. **W. B. Danforth, Little Cedar, Iowa.**

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POLLED DURHAMS

FOUR choice two-year-old heifers, sired by Agate's Don Joe by Royal Duke. Good individuals. Splendid milking strain. Priced reasonable.

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Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. **Wm. Barrans, Lenox, Iowa.**

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Ayrshire Cattle

Some of the best young things we have ever offered. They are bred at the top.

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HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address

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HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfold Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thicket, priced right for quick sales. Farm in city limits. **O. V. Battles, Maquoketa, Iowa.**

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HERD headed by the Trojan Erica bull, Equalize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address,

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ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by imported Ideal of Stranden 2855 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. 1. & P. **R. Wilkinson & Sons, Mitchellville, Ia.**

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OF the popular strains, sired by Black King of Home, Dale, Blackbirds, Prides, Queen Mothers, Gilt Erics and Heatherblooms. Our prices are right. If in need of a bull, come and see us or write.

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ALFALFA HERD ABERDEEN ANGUS Erics, Blackbirds, Prides, Queen Mothers for sale. **Harrison & Harrison, Indianapolis, Neb.**

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COMPRISING the allied herds of P. J., M. H. and Mike Danohoe, of Holbrook, Iowa, and C. P. Leahy, of Parnell, Iowa. 200 head of choice Daddies within a radius of two miles of Holbrook. The International Champion Black Woodlawn 42088 heads the herd. The following families are represented: Prides, Blackbirds, Bricas, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jam and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

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A dozen red bulls, beefy, high quality fellows, by Narcissus King 239586 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and bred to Narcissus King, singly or by carload. You will buy if you see them.

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High-Class Scotch SHORT-HORN Bulls

WE have a number of bulls right around a year old; solid red in color; blocky, symmetrical, well-finished fellows, with merit enough to entitle them to places at the head of good herds. They are all by Lord Banff Jr. and out of cows of straight Scotch lines of breeding. We want you to see them.

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WE now offer three yearling bulls at prices that will induce men to buy. Two red ones by Vallant Jr., a roan by Gwendoline's Boy. Also some choice younger calves by same sires for sale. Visit or write us. Address

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Short-horn Bulls

Six choice bulls of most fashionable breeding, sired by Signal by Great Scott, Robert Hampton by Imp. Merry Hampton and out of the best of Lavender dams. These bulls will be priced low for quick sale. Write us before buying.

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TEN young bulls, 10 to 20 months old, for sale; 4 Scotch and 6 Scotch-topped. Attractive prices will also be made on cows and heifers bred to the Scotch bulls, Headlight and Brawith Lad. For description and prices, address

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50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

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YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk, or weigh in the milk for the herd. BLACKMER & NELSON, Albert Lea, Minn. Farms 1 and 2 miles from town.

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A FEW good red bulls, some just over a year, healthy and thrifty, but not over fat, at farmers' prices if taken soon. All by good Scotch bulls.

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Three good young bulls for sale. Best of breeding and individuality.

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HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

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EIGHT good Short-horn bulls for sale, 12 to 14 months old. Good colors, good individuals and prices reasonable. Dan Powers, Ulysses, Neb.

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I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Rex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

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We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd headers. Write us immediately. Address

Bragonier & Son, South Omaha, Neb.

GOOD bargains—8 head pure-bred, Scotch-topped, red Short-horn bulls for sale; 1 to 2 years old. One high-grade, 3-year-old black Percheron stallion; 1,325 lbs. Good boned fall and spring Duroc and P. C. boars and gilts, large type; best of breeding. R. M. Young, Cook, Johnson County, Neb. Location—5 miles southeast Cook; 10 miles northeast Tecumseh.

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I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athene. Others that are strictly choice. Also several Scotch-topped bulls by Lord Mithner. Prices low if taken soon. PERCY O. BROWN, LAMONT, IOWA.

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A "REAL" herd header, red, "Cruickshank Secret," 22 months old, bred by Chas. C. Norton, son of his noted "Gloster's Favorite." You will buy if you see him. Write us now for particulars.

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FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch.

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FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

Good Red Short-horn Bulls

A DOZEN Scotch and Scotch-topped bulls, 10 to 24 months old, some good enough for the best herds, others suitable for farmers. Sires Courtier 5th 277599 and Baron Secret 2d 289279. Address

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5 GOOD SHORT-HORN BULLS

Scotch and Scotch-Topped. From good milking dams. Prices reasonable. F. M. Hall, Friend, Neb.

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Breeder of High-Class Short-horns.

HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address

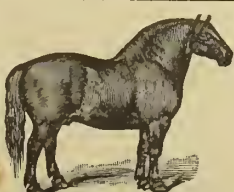
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The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an international winner, and one imported Hackney mare, both with foal. Also one first-class Short-horn bull. Address

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FRANK L. STREAM, Creston, Iowa.

CLYDESDALES and PERCHERONS—Imported and home-bred. A select lot of stallions and some extra choice mares. Prices right. Address R. O. MILLER, Route 1, LUCAS, IOWA.

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ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

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Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler

Breeders and Importers of

PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

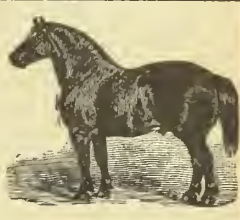
To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

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DRAFT horse buyers will find at our barns a lot of valuable stallions—Belgians, Percherons and Shires of right age for immediate service. A few good Coachers. Come and see how cheap we sell.

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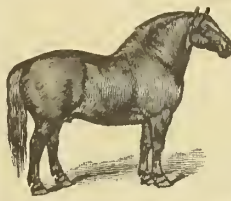
Carefully selected to get the good, big, rugged kind; all fresh, with plenty of bone and action. All of my horses are well grown and are mostly solid colors. A splendid lot of young stallions and mares now on hand.

O. P. HENDERSHOT, HEBRON, NEBRASKA.

To Prospective STALLION and MARE BUYERS

WE landed home April 20th, with eighty head of two-year-old Percheron stallions and mares. Being the first importers in the Perche district, we secured the TOPS at prices no higher than others will have to pay for the CULLS in July and August. If you wish to purchase an extraordinary fine pair of young mares or a stallion, you are invited to inspect this grand lot of young horses. We have fifty young mares on pasture being bred to one of the best horses in America, and fifty young stallions in the barn to select from. Write us your wants; it will cost you but two cents. We will save you hundreds of dollars. Homewood is on the main line of Big Four and Illinois Central Railroads, twenty-three miles south of Chicago.

Suburban trains hourly. Bell telephone, Homewood 204. S. METZ & SONS, HOMEWOOD, ILL.



BELGIAN EMPORIUM of AMERICA

STALLIONS all sold. Can spare a few more mares, your choice from thirty. I have sold over one hundred head this past season, and will return from Belgium, Sept. 1st, with another supply to refill all my barns.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri Jacks—the best that grow—14 to 16 hands. Everything guaranteed as represented. Est. 1892.

J. C. BUCKSTEP, Prop., BOLIA, MO. Pike Co.

Clydesdale Headquarters

McLay Bros., JANESVILLE, WIS. NEW IMPORTATION—18 STALLIONS and MARES ARRIVED MARCH 12th.

OUR entries in the Stud Book exceed all others. Have aggregated more prizes at nine International than any competitor and sometimes double the firsts. We can buy better; can buy cheaper; our expense is less. We breed them too. Why, above all today, does "a McLay Clydesdale" stand for a good Clydesdale? There's a reason; come and see; wire or write.

PRIZE BELGIAN IMPORTED MARES

ALL prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are safe in foal to the service of Robert H. De Rnm (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.

SHETLAND PONIES

I HAVE one of the largest herds of registered ponies in the state, and now offer for sale some horse colts, but no mares. Send 2-cent stamp for pony postcards. F. P. Healy, Bedford, Iowa.

When writing mention this paper.

WE HAVE EIGHTY-FIVE

PERCHERON

STALLIONS and MARES

FOR SALE AT KEOTA.

50 Stallions—35 Mares

We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold, come and see Keiser's Percherons at Keota.

C. O. KEISER, Keota, Ia.

AT LOW PRICES

BELGIANS
PERCHERONS

GERMAN COACHERS

A. R. IVES, DELAVAN, WISCONSIN.

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I AM offering eight head of Shetland ponies for sale at from \$65 to \$125. Also one 5-year-old black Shetland stallion and one 2-year-old Percheron stallion. Address H. W. Littleton, Harlan, Iowa.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.

SIXTEENTH PUBLIC SALE OF LAKEWOOD PERCHERONS

TO BE HELD AT THE

Stock Yards, Sioux City, Iowa
TUESDAY, JUNE 28, 1910

50—HEAD—50

Consisting of 5 two-year-old stallions, 10 yearling stallions, 20 bred mares and 15 yearling fillies. The two-year-old stallions are by the WORLD'S FAMOUS CALYPSO, Champion Olbert and



CALYPSO.

other great sires, and are a high-class lot. The bred mares range in age from 2 to 7 years and include a number by CALYPSO that are bred to the great young show horse, INSCRIT, that won first prize at the last International. Nearly all of the other mares are bred to CALYPSO. The yearlings are by CALYPSO, the great breeding stallion, Col-lard, and other well-known sires. Anyone wanting high-class mares and fillies, or a choice young stallion, should not fail

to attend this sale, as there will be a number included that will be good enough to show at the fall fairs.

Cols. Woods, Jones, McGuire and Murphy, auctioneers.

H. G. McMILLAN & SONS
LAKEWOOD FARM, ROCK RAPIDS, IOWA.

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

Percherons,
Belgians,
Shires,
German and French
Coachers,
Hackneys.



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

A. B. HOLBERT, Greeley, Ia.

THE SIDNEY B. SMITH COMBINATION SALE

SHORT-HORNS
POLLED DURHAMS. ANGUS
WEDNESDAY, JUNE 29, 1910

HEREFORDS
THURSDAY, JUNE 30, 1910

UNION STOCK YARDS, CHICAGO, ILLINOIS

THE consignors are—**ABERDEEN ANGUS**—(25 head)—U. G. Weidman, Bedford, Ind., F. E. Bensley, Casey, Ill. **HEREFORDS**—(30 head)—N. J. Hiltabrand, Lostant, Ill., Grant Fitch, Casey, Ill., J. B. Fernow, Leesburg, Ohio, Lamson Bros., Big Rock, Ill., E. P. Dow, Forest, Ind. and Chas. E. Kurtz, North Salem, Ind. **SHORT-HORNS and POLLED DURHAMS**—(35 head sell at 10 a. m. June 29th)—J. A. Kilgour, Sterling, Ill., F. L. Geidner, Polo, Ill., W. B. Rigg, Mt. Sterling, Ill., H. A. Ravenscroft, Versailles, Ill., John H. Buntin, Jr., Danville, Ind., Owens Bros., Homestead, Iowa, F. O. Behling, Caldwell, Wis. and J. W. Brook, Stronghurst, Ill. **SPECIAL FEATURES**—1, a 1900-pound Angus show cow; 2, a Hereford show heifer; 3, a choice lot of breeding Short-horns, including some very high-class bulls. For further information and catalogs address

Sidney B. Smith, Sales Manager,
Successor to W. C. McGavock
SPRINGFIELD - - ILLINOIS.

150 A. J. C. C. 150 CATTLE

IN KINLOCH FARMS' GREATEST SALE
KIRKSVILLE, MO., JUNE 30, '10

125 IMPORTED JERSEY 125
...COWS AND HEIFERS...

SELECTED PERSONALLY BY DR. STILL

As great a lot as ever left the Island. Not one over five years old. Great milkers with great teats and udders.

VIOLA'S GOLDEN JOLLY
whose daughters sold at an average of \$833 has been used on practically all, giving buyers an opportunity of securing the blood of the world's greatest Jersey bull.

75 COWS IN MILK 75
60 HEIFERS HEAVY IN CALF

Beatrice Stockwell and Financial Countess' Lad, a great pair of herd bulls, Jolly's Royal Sultan by Viola's Golden Jolly and several young bulls will afford a rare opportunity to secure great herd sires. This sale will enable buyers to secure the best lines of breeding. There will be cattle here for every one, your price is ours sale day. In our catalog many animals are illustrated. Send for it, mentioning The Homestead. A. T. Cole representing The Homestead.

KINLOCH FARMS, Kirksville, Mo.

B. C. SETTLES, Palmyra, Mo., Sale Manager.



VOL. LV. NO. 26

DES MOINES, IOWA, JUNE 30, 1910

WHOLE NO. 2751



ONE Plow Does the Work of ALL!

At last we have succeeded in making what thousands thought absolutely impossible—a universal, all-purpose plow bottom.

For forty years implement makers have been trying to make it and failed! But we have proved our invention is a big success in every way. Just picture a plow that will turn over

tame sod without kinking—turn under corn stalks or any kind of stubble without leaving a bit of trash—and do all of this perfectly, regardless of whether it's turning a furrow 2 inches deep or 8 inches deep. Furthermore, it will do all these wonders in all soils—sand, clay, waxy bottom, gumbo, stony or gravelly.

ROCK ISLAND UNIVERSAL (C.T.X.) BOTTOMS

Now Ready on Our Gang and Sulky Plows

Note the peculiar corkscrew, auger-like twist of the mouldboard. A slice of any thickness spreads out evenly over the surface without crimping and turns clear over, hurrying all trash completely. No spilling over into the furrow or slopping forward onto the land. Lightest draft and easiest on the horses of any plow made. We control the shape of these mouldboards, and THEY CANNOT BE HAD ON ANY OTHER MAKE OF PLOW.



[21] Patent applied for.

ROCK ISLAND PLOW CO., Rock Island, Ill.

Our Liberty Gang Plow needs no lengthy description. It has already gained the reputation of being the best gang plow ever made. And now that it has the new Universal (C.T.X.) Bottom it is bound to be practically the only gang plow in demand during the years to come.

We have also equipped our Liberty Jr. Sulky Plows with Rock Island Universal (C.T.X.) Bottoms. The plow itself needs no introduction, as it is already the recognized leader of the Sulky Class.

Ironclad Guarantee. We fully and unqualifiedly guarantee the performance of the Universal (C.T.X.) Plow Bottom to be exactly as stated in every particular if simple directions as to setting up and hitch are observed. We will take back any plow which does not make good our claims in the field.

FREE! Write for our new booklet. It's crammed with money-making hints and valuable bits of advice on advanced farming methods. It explains in detail how many farmers have more than doubled their crops, and tells everything we haven't room here to tell about the Rock Island (C.T.X.) Plow Bottom. Orders are coming in faster every day for our new plows. Write at once for free booklet, and name of a dealer near you who handles our new plows, so that you can call and see them before they're all sold out.

There's the Difference

Our Hydraulic Jack

Saves all the trouble to be found in other grain elevators. No chain, ratchet or worm gear. Raises with less power; lowers without power.

The Camp

Hydraulic Grain Dump and Elevator

The only portable grain elevator furnished with a HYDRAULIC JACK. We have manufactured a number of different styles of jacks during the many years we have been in business, but have finally decided to manufacture no other than the Hydraulic Jack. We guarantee it will raise a load with less power and can be handled easier than any other jack. It absolutely does away with all the disagreeable features found in other grain elevators. It can be stopped automatically, lowered in a few seconds without power, or placed at any desired position. It makes the Camp elevator the king of all portable grain elevators.

MORE MONEY AND LESS WORK FOR THE FARMER

The progressive farmer of today—the one with a good head—is taking advantage of the short cuts made possible by modern inventions that save time and make farming less laborious. There is nothing cumbersome, complicated or unwieldy about a Camp elevator. It works perfectly, under all conditions and handles ear corn and shelled corn, oats, wheat, flax and all sorts of grain. It is equipped with many different styles of elevators, spouts and conveyors which can be adapted to any building.

We have a very carefully prepared catalog, which will give you full information how to equip your barns or granaries for easily handling of your grain. This book is worth hundreds of dollars to the big corn raiser. A postal card inquiry will get it to your mail box in a few days. Can we send it?

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Write us for prices on lumber and we will easily convince you that we can save you money and give you better quality, grade for grade, than you can get at your local yard. For 30 years we have been the largest manufacturers of lumber, mill work, shingles and other building materials in the Middle West. If you want to save 10% to 25% on your buildings and get better material, order from us. Come to Dubuque and pick out the lumber yourself. WE WILL PAY YOUR ROUND TRIP FARE—YOUR TRIP WON'T COST YOU A CENT IF YOUR ORDER AMOUNTS TO AS MUCH AS ONE CARLOAD.

Our profit is so small that we can't afford to make this free trip offer on small orders, but we can save you money on small quantities, and we guarantee you will be satisfied with our grading when you order by mail. If you live within 300 miles of Dubuque, the saving you will make by ordering small lots of us will more than pay the freight. Send for special price list. If you want roofing, our

DUX-BAK RUBBER ROOFING

the result of 40 years experience in the manufacture of ready roofing, will give perfect satisfaction. Made of the very best material and guaranteed for five years.

1 ply, 35 lbs. to the sq. \$1.15 per sq.
2 ply, 45 lbs. to the sq. \$1.40 per sq.
3 ply, 55 lbs. to the sq. \$1.70 per sq.

PETER J. SEIPPEL LUMBER CO.

DUBUQUE, IOWA.


DEPT 10

Perfect One Horse-Power Engine At Last

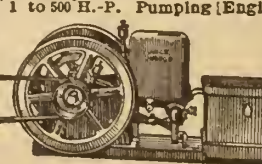
It is the strongest and best small engine you ever saw. The work it will do will delight you—so easy to operate and to shift from one job to another.

The Jack Junior, a One Horse-power Marvel, has horizontal tank which takes the place of water jacket and does away with the large water cooling tank required on other engines. Jack Junior is made of the highest grade materials with all working parts expertly machine finished. Four cycle, water cooled, make and break electric ignition. Uses gasoline or kerosene at less than 1 cent per hour. Jack Junior will pump water, run cream separator, milking machine, churn, washing machine, grindstone, small air compressor, lathe or band saw, small corn sheller or ice cream freezer—in fact, any machine not requiring over one horse-power. Jack Junior is mounted on wood base, complete with battery, all ready to run.

Gas Engines from 1 to 500 H.-P. Pumping (Engines, Pumps, Pump Jacks, Electric Lighting outfits Belting and Supplies.



Jack Junior Pumping Engine Belted to Handy Pump Jack



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Address nearest of our 27 Branch Houses or

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The kind that give you service and satisfaction. You can have this if you will just mention the word

FISK

When you are next in need of one. We are exclusive Tire Builders and our aim is to not see how many tires we can build within a year, but how many we can build well. It's been that policy year after year that has made FISK spell BEST in the Autoist's language.

WRITE US OR OUR BRANCHES

THE FISK RUBBER COMPANY

CHICOPEE FALLS, MASS.

No More Scooping Grain Into Cribs

Three to five minutes to dump and elevate a 50 bushel load of ear corn. Less time for wheat, oats and shelled corn.

No scooping, no hard work. The horses do it all. Save and make big money. Build cribs twice as high. Hold grain till the price goes up. You can do this with

"The Farmer's Friend"

Wagon Dump and Grain Elevator

No need of hired help. Boys and girls husk when they don't have to scoop. Husk 20 bushels more per day. Save money, work and time all around. Write postal now for proof of "Farmer's Friend" superiority. Address postal to

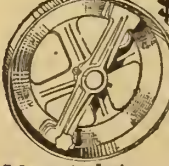
G & D Manufacturing Co.

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\$350 Equips Your Separator


For any Power

Absolutely the most wonderful speed control pulley ever invented. Works up the speed without the slightest jerk or jar. Will add years to the life of any separator. So simple it can't get out of order and yet so positive of adjustment that it controls speed perfectly. No use breaking your back or wearing yourself out during hot weather hand-turning your separator—run it with your engine. Send check or postoffice money order for \$3.50 and I will send it to you on 30 days' trial; then if you are not satisfied or if you don't want to keep it, send it back and I will refund your money. Remember, it's different and better than any other; can be attached to any separator with a shaft extension of 1 1/2 inches.



It's just what you are looking for

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30 Days Free Trial

Fits any Cream Separator

Wm. Galloway Co., 100 Galloway St., Waterloo, Iowa

FORD EVENERS

Works all horses abreast on gang, sulky or disk plows, one horse in the furrow and the rest on the land, if your plow has not got a cross clevis get our frame hitch attachment

Our prices on cars at Rockford, Ill.

3-horse Plow Everser.....	\$1.55
4-horse Plow Everser.....	4.40
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Binder Attachment.....	1.10
Frame Hitch.....	.95

Horses work free—no side draft—and all pull equal. Are guaranteed. Send money with order or send for circular to

FORD MANUFACTURING CO., Dept. C, Rockford, Ill.

PRICE \$3.45

Will work on any pole, guaranteed absolutely free from side draft or money refund, are made from White Oak, Mallicables, steel, nicely striped and finished.

WOOL

WE BUY HIDES, WOOL AND FURS

DON'T sell wool at home. You can get two cents more per pound by shipping to us. Write for price list. MASON CITY HIDE & FUR CO., 537 East Seventh St., MASON CITY, IOWA.

WOOL

The Iowa Homestead

DES MOINES, IOWA, THURSDAY, JUNE 30, 1910.

Catch Crops---How to Grow Them

By R. B. Rushing

ALMOST every spring, especially when weather conditions are unusual or unfavorable, many a farmer is confronted with the need of using a part of his farm with some kind of catch crop, owing to the failure of some other crop. Few farmers are so successful as to never need to use catch crops, indeed, I have yet to see a farm, where general farming is practiced, where they could not occasionally be made profitable. In fact, in many systems of rotation the catch crop is worked in regularly, following wheat, rye or a failure of corn.

There are many different things that can profitably be grown as catch crops, and I believe that putting in any kind of a crop is better than letting the land lie idle and grow up to weeds. For my own use, however, I have finally simmered down my list of catch crops to two plants—the cowpea and sorghum cane. These might not suit all conditions and people and, in fact, I should not recommend planting them everywhere, for other things, like millet, soy beans, a catch of rape, the vetches, etc., for different localities and purposes, might prove even more profitable than the cowpea and the sorghum cane. But under conditions such as ours here in southern Illinois, several points determine my decision in favor of those two.

The main point that I never overlook is the maintenance of the fertility of my soil, for without this fertility I could not grow even these catch crops with profit.

Next to fertility I consider the feeding value of the crop grown. In these two respects the cowpea and sorghum cane combination is as near ideal in their purpose as any crop I have ever tried or heard of. I nearly always grow the peas and cane together on the same land.

All up-to-date farmers understand that the cowpea is a legume and the sorghum-cane is not. But I do not consider the latter unprofitable on that account. In this sorghum cane I have a feed that is fine for all kinds of stock, even horses. For my cows I do not find anything better in the forage line, except some of the legume family.

It is a fact not generally understood that the growing and continually taking off cowpeas and clover will deplete the nitrogen in the soil.

The plant, when harvested, will take as much

nitrogen out of the soil as it puts back, or a little more. Yet we must produce feed and at the same time maintain the supply of plant food in the soil. Yes, we must not only maintain, but increase that supply or we are not up-to-date farmers.

So, in using these catch crops, we must not think of them always as a "taking off" proposition, but we must, at least at times, take the old plow out and roll them under to rot in the soil and make humus and increase the supply of nitrogen.

The cowpea is, in my judgment, almost an ideal crop for increasing the nitrogen supply when turned under. The sorghum cane, of course, does not gather nitrogen, but takes it away; but, being a very deep-rooted crop, it puts the soil in fine condition down deep and liberates plant food that is locked up there, besides fitting the soil to work under other treatment more readily.

Getting the land ready for the catch crop is not often a very difficult task with me. In case of a failure of corn from bad seed, worms, cold, overflow or any cause, I usually take four good mules, a good, sharp disk and a small tooth smoothing harrow and put the land in nice order in a hurry. I let the disk go about four inches deep. Even if the land has become packed somewhat from heavy rains, it will cut it up fine and the harrow following it makes an ideal bed for the seed of the catch crop. Should the land be rough, it may be necessary to double disk it. In such case I double disk, sow my peas at the rate of one or two bushels to the acre, depending on the strength of the land and what I intend to do with them, then harrow once and sow my cane seed at the rate of one-half to one bushel to the acre, then harrow lightly again. In this way the land is put in fine condition and the seed properly covered and even in dry weather under such preparation the seed will germinate and grow readily, until in a short time the land will be shaded enough to prevent much moisture escaping.

I nearly always sow a catch following wheat, for I do not want the weeds to grow up rank

and seed the land. If the spring has been rather moist and the land has not been packed by excessive rain, I usually follow just about the same plan as described above for the catch following corn, but if the land has become packed hard, it may be necessary to plow immediately after harvest. In such case I stack the wheat as soon as possible, then all the plows available at once begin turning the wheat land, with a good, sharp-tooth harrow following to thoroughly pulverize the soil before it dries out. Then two good mules pull the disk over this, for it is not necessary to do anything except just loosen the land. Of recent years I have decided that the land roller is an unnecessary tool on any farm, for if the land is in the shape it should be for the production of profitable crops, the roller will not be needed, and I have learned that my land gets enough packing every year from heavy rains.

Following this disking I sow the peas and harrow, then sow the cane seed and harrow again lightly. The cane seed are not sowed at the same time with the peas, because they do not need to be covered so deeply as the peas. By harrowing the land the first time the disk furrows are leveled somewhat, so that the cane seed are left nearer the surface. Thus they germinate quicker and get through the ground more easily. When they first sprout they are quite tender and, if they have very far to go before reaching the surface, they are likely to not get through at all, or at least come through slowly, and what I want is a quick germination and rapid growth from the start.

At the time of year when we must sow the catch crop, it is likely to be very dry; thus it is very necessary that we use some crop that will resist drouth and at the same time make growth. In this respect few crops equal the cowpea and cane. I have often sown cane when the land was very dry, but pulverized well, and though no rain came for some time, the crop came up surprisingly, anyhow. Peas resist dry weather almost as well, and the two together make almost an ideal growth. The cane holds the peas up off the land so that they can be mowed much better and handled better.

The Drilled Well vs. the Dug Well

By C. G. Armstrong

APURE water supply for home, farm and stock purposes is imperative for every homestead. Instead of depending on the local surface drainage, with its varying degrees of contamination and a periodic shortage of supply just at the time it is most needed, the modern drilled well penetrates the impervious shales and taps the underlying supplies of pure, healthful water, free from every trace of contamination. All surface drainage and foreign matter is completely excluded by means of an iron casing that extends down to the bed rock.

Exploration of the deeper lying strata has revealed the existence of vast artesian areas that will furnish an unending supply of pure, sparkling water.

Strata that were inaccessible in the days of the dug well are now the common sources of supply.

The old-fashioned method of "digging" a well represents the earliest attempts of mankind to provide an artificial water supply, and in some localities this primitive method is still resorted to. It was adopted in the days of crude tools, before modern well-drilling machinery was perfected and obtainable at a low cost. That the process is still in use in places is due largely to the fact that the overwhelming advantages of drilled wells are not generally known. Fortunately, it is in growing disfavor and will soon be a thing of the past.

In many localities the depression of the ground water table, caused by the increased number of drilled wells, drainage channels, etc., has caused a gradual shrinking of the supply in many of the existing dug wells, and in seasons of extended drouth or through long winters a shortage of supply naturally occurs

in wells that are dependent on surface drainage.

These shortages generally occur at times when water is more than even a vital necessity.

Those who have experienced a drouth when creeks and streams have become stagnant pools, and springs and shallow wells mud holes, can appreciate the value of an abundant supply of pure, cold water from a deep-lying stratum.

At all times the drilled well gives a feeling of security and comfort, and is a guarantee against sickness or contagion from a contaminated water supply. A drilled well insures safety.

All over this country there are thousands of these "dug" wells that are, in many cases, little better than cesspools. Only a very small percentage of these are protected from the immediate surface drainage, and the nearness of our buildings and general refuse mean constant contamination. Many are uncovered or, at best, provided with a loose covering of boards. All manner of creeping and crawling vermin, rats, mice, and even the smaller domestic animals, find their deathbed and grave in these unsanitary water wells. This is evident when the periodic cleaning of the well takes place. This usually occurs when the putrefaction has so far advanced that it becomes noticeable to the taste or smell.

Samples from these open wells when subjected to analysis invariably show the water unfit for human use.

With the enlightenment which comes with increased educational facilities the subject of

the disease-spreading dug well is receiving more attention, and well it might. Health authorities everywhere are urging the abolition of the unsanitary shallow dug well with its dead rats, rubbish and vermin.

Typhoid, malaria and a long train of diseases are traceable to the use of water from dug wells. Statistics shows that 85 per cent of all typhoid is due to impure drinking water.

In many localities dug wells are used for the sole purpose of draining the surrounding land. This is particularly true in the swamp lands of this country, where a stratum of impervious clay caps an underlying gravel bed. Thousands of acres have thus been drained and restored to cultivation. This feature of surface drainage is in itself a conclusive argument against the use of the ordinary dug well for water supply purposes.

The time is rapidly approaching when a farmer will be ashamed to admit that he gets his water supply from a dug well. Many farms are being irrigated by water from deep drilled wells instead of streams.

The up-to-date farmers, stock raisers and residents of the country are awakening to the advantages of the drilled well with its continuous curb or casing to shut out the surface or other undesirable waters, and to prevent the infilling of the well by the caving of the walls.

A subscriber at Birmingham, Iowa, says that the best plan he has ever tried to keep a cow from sucking herself is to put a surcingle around her body and run a pole from the lower part of it to her halter. Just make it long enough so it will not interfere with eating and she will be obliged to behave herself after that.

THE HOMESTEAD

A PRACTICAL JOURNAL for the FARMER, STOCK-MAN, FRUIT GROWER, POULTRYMAN, GARDENER, and HOUSEKEEPER

BY JAMES M. PIERCE

JAMES ATKINSON, Editor-in-Chief

ESTABLISHED IN 1855

Entered at Des Moines Postoffice as second class matter

PUBLISHED EVERY THURSDAY

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A KICK ON IMPROVED MACHINERY.

The following communication has been received from a Minnesota subscriber:

I would like to say a few words on "Labor Saving on the Farm." Let me tell you of the condition here in Minnesota. One of our most prosperous farmers here has quite a large farm. He and his three sons work every day in the year from daylight until dark or after, with hardly any holidays (even on Sunday one-half the day is spent in choring) and they clear \$1,000 a year. That divided among the four men makes \$250 for each. What man in town would work for \$250 a year and board, and put in so many hours of work, too? By the time they clothe themselves how much do they have left for the high-priced labor-saving machinery unless they go into debt heavily? And as for the house, I don't know of one in all the country around us that has a heating plant, plumbing, laundry, etc. They simply cannot afford them. A very few have cisterns. Another man here who is a very hard-working man and is also called a very prosperous man, manages some years by living very closely and carefully to save from \$200 to \$300 to lay up for old age. But if he bought labor-saving machinery and had all the modern conveniences in his house he would save nothing and it would take all the rest of his life to pay for them. The labor-saving machinery only gives more time to do more work and there is always more work to do. The way to keep the boys on the farm is to give them as high wages and as short hours of work as they have in town, and that is impossible. The farmers are not to blame; they cannot afford it. There are absolutely no holidays, for no matter how loud the eagle screams on the Fourth, or how grand the parade on circus day, the cows must be milked and the pigs fed at their regular time, and it is a long way to town. The country is a lovely place to live in, but as for pleasure or recreation that is left for the town people; the farmer and his family have no time.

There is just one phase of this communication which we desire to analyze a little more closely. The criticism here made against improved machinery is not founded on fact. The man who does not believe in using modern machinery is bound to find farm work a species of drudgery. While it is possible to be extravagant in the purchase of machinery, it is a fact that the ordinary man can well afford to strain his credit if by the purchase of machinery he can save man labor. The day has arrived when it is necessary to transfer burdens which man formerly carried to the shoulders of his faithful servant, the horse. We can understand that for the farmer who does not believe in modern machinery holidays are out of the question and the regular program must be "work" from morning till night, year in and year out.

Supposing a man has sixty acres of corn to care for and he finds it a difficult matter to secure help to cultivate this corn. Let us assume that he pays \$50 for a two-row cultivator and instead of hiring a man at \$30 a month he tends this corn himself. The cultivator may be only in service six weeks or two months, after which it is stored, but in a single season it has saved in wages much more than its cost. It not only saves the cash outlay for wages, but it saves extra work in the farm home, which amounts to a good deal. We all remember the time when the hired man and even the owner of the farm walked from morning till night after a ten-foot harrow. Nowadays we hitch four or six

horses to a sixteen or twenty-foot harrow and in the same length of time do double the work with only a fraction of the effort. We have learned from experience that if a field needs harrowing the quicker we get it done the better, so that one can well afford to add an extra section or two to his harrow and buy himself a cart, because in a single season the saving in labor, saying nothing of the increase in the crop, will pay the bill. Take the manure spreader. It may seem like tying a good deal of money up in an implement that is only used during a short period every year, but where as much as 100 tons of manure are made on a farm the manure spreader will pay for itself in increased yields in one year. By its use manure is used much more judiciously and the returns come direct as a result of spreading manure sanely. Examples could be multiplied without end. Our heart goes out to the man who is on a poor farm and who is almost obliged to make farm work drudgery in order to make ends meet. In nine cases out of ten, however, a little headwork or a little foresight would change the aspect of the whole situation and make the occupation of farming one of the most pleasant and agreeable of any in the list.

THE LITERATURE OF THE FARM.

A subscriber makes the following complaint against the farm literature of the day:

I notice in every farm paper lately a great cry about keeping boys and girls on the farm. Why do not these papers, which represent the literature of the farm, make some effort toward attaining the end which they seem so desirous of promoting?

To explain: The average boy or girl from ten to twenty years of age likes to read; they do read; they will read, and they will read what they like. Where is the literature of the farm? Is there a book in existence of a nature to attract and hold the attention of an ambitious boy or girl, which ennobles agriculture as an occupation and whose hero has for the motive power of his life the determination to be a successful farmer? Is it not true that the books these young people read all point toward the city as the goal of success? Take the hero of any of our best books—does he chop wood or plow corn or pitch hay? If he does it is always with the understanding that he is too big for his job; that the men with whom he works are intellectually his inferiors and that some time he will leave it all for the bar or the bench, the field of letters or the legislature; and then in later years he goes back "a great man" to the scene of his early struggles taking with him a vision of loveliness in lace and diamonds (the daughter of the late Mr. Midas Millionaire) whose life he (the hero) had saved at the risk of his own, and the daughter and her fortune were the reward. The simple friends of his boyhood bow in meek and lowly admiration before the splendor of his success, etc. As to the heroine: Does she wash dishes? Does she spend her days in churning and milking and raising chickens? If she does it is only that some man of wealth will be attracted by her wonderful beauty and take her from her life of drudgery to adorn the grand old mansion that has been the pride and glory of a hundred generations of blue-blooded idlers.

What I am trying to get at is this: These young people could be reached through the farm papers by a class of fiction that would be fully as interesting to the youthful nature as the books they do read, and at the same time dignify and ennoble the life to which they were born. It would teach a truer principle of success than wealth or position in the cities—it would point to success in their own sphere.

Among all our agricultural papers I find not one which has a young people's page worth while. Where are our boys and girls who are leaving school for work on the farm? Why do we never hear their side of the story from their own lips—or pens? There are dangers for these of which their parents never dream. I know one boy, a good scholar and a splendid farm hand, who never looks more than once at a farm paper—there is nothing to attract him—but he secretly obtains books from a house of ill fame in town. If you told his parents this they would angrily deny it, drop the subject—and you.

A number of young girls who attend school in a nearby town are in the habit of stopping at the depot to watch the train come in. I saw not long ago a group of these girls engaged in conversation with a repulsive creature who had just left the train—a gaudy serpent with painted cheeks and cheap jewelry. The fact is that many country mothers do not know that these dangers exist. Is it not the duty of our farm papers to warn them and also, through its pages, put something into the lives of these boys and girls that will make their lives of toil and endeavor more beautiful to them than the flashlights, false and alluring in most instances, that reach them from the city? I am a farmer's wife, the mother of a family and I do my own work. I was born and brought up in the coun-

try and know the needs of the country's young people.

There is much truth in the contention. It is a fact that little, if any, of the present day fiction which deals with farm life has any other ending than a migration to the city, where the hero reaps his just reward. There are all too few novelists devoting their attention today to the great agricultural sections of the country. In the beginning of their careers W. D. Howells and Hamlin Garland wrote realistically and pleasingly of typical life in the grain belt, but of recent years both have been lured away and now find their fields for imaginative literature in the East and in cities. Mr. Garland wrote nothing better in all his life than "Rose of Dutcher's Coolie," but he causes his heroine, who is a country girl, to go to Chicago in order to find wide enough field for her to develop her artistic instincts. Mr. Garland's "Main Traveled Roads" is probably the best example that can be cited of a book which has been written within the past twenty years and which really gives farm life its just dues, without glorifying it idealistically. Frank Norris attempted the task which the subscriber assigns and in the trilogy which he devoted to wheat growing did much to start a literature of agriculture, but unfortunately Mr. Norris died before his task was completed. Such novelists as William R. Leighton and Herman Whitaker have written several popular stories of the farm, but in practically every book there is the migration to the city of which the subscriber complains. There remain only those philosophical novels, such as "Abner Daniel" and "David Harum," which are mainly excuses for the humorous and philosophical remarks of the hero rather than any real love story or picture of conditions. Possibly the book which most nearly meets the requirements laid down by the subscriber is David Grayson's "Essays in Contentment." Mr. Grayson pictures the soul-satisfying qualities of life in the country, far from the maddening crowds, but makes his book a series of essays rather than a continuous story.

There is a great field for the farm novel which shall portray conditions as they actually are and at the same time have the element of romance magnified sufficiently to entertain both city readers and country readers. The magazines of today are printing more and more each month articles dealing with country life and rural subjects. If this is a sign of the times it is highly probable that before many years have passed novels dealing with farm people and farm life will become popular. The tendency today seems to be in this direction. When these novels do appear they will be prime factors in still further popularizing the farm.

FEEDING TANKAGE TO YOUNG PIGS.

A subscriber from Holdrege, Neb., sends the following communication:

I wish you would tell me how to feed tankage to young pigs so as to get the best results from it. I have recently purchased a quantity of this product and I am free to say that the odor is very disagreeable. One can hardly stay in the same building where it is stored. Do you think that is a normal condition or is it possible that the tankage is in a state of decay? It almost seems to me that it is hardly an animal food, but in this I may be mistaken. Any information you can give me on the subject will be appreciated.

Tankage has naturally a very disagreeable odor, especially in warm weather. It should not be stored in an ordinary granary where there are other mill products or grains intended for horses or cattle because eventually the odor will contaminate these products and make them unpalatable. A corn crib with a good roof makes an ideal place to store tankage, because in that case the odor is not confined and it is not nearly so disagreeable. Of course it is possible that this particular batch of tankage is in a state of decay, but that is not probable because it is so thoroughly dried out in the process of manufacture that there is not enough moisture left to bring about a state of putrefaction. If it has been exposed to the weather and has become wet it will soon be rendered unfit for food in warm weather. There are two ways of feeding tank-

age: One is to mix it with mill products or ground grain in the proportion of one part of the tankage to twelve or fifteen of the other products and use in the form of slop. In warm weather this should not stand more than twelve hours. In the summer months it is sometimes even advisable not to add the tankage to the slop until just before feeding. In that case the other products are put to soak say twelve hours before the feed is required, and as stated, add the tankage at feeding time. Special pains should be taken to see that all barrels and pails are kept clean, otherwise trouble might result from filth contamination.

The second plan is to simply use the tankage dry in the same proportions mentioned above, along with either whole or ground corn or mill products. Young pigs on grass will do exceedingly well if they have access to dry corn and a little tankage. It is not even necessary to go to the trouble to shell the corn, and in that case the tankage can be placed in a self-feeder or in a trough designed so that there will be no waste. It is an expensive product and must be used as economically as possible.

THE SAVING OF AN AUTOMOBILE

An Illinois subscriber writes as follows in regard to his automobile on the farm:

My experience in the use of an automobile covers a period of one year, and the machine has given and is still giving excellent service. The amount of time and horseflesh saved can hardly be appreciated by those who have had no experience with one. When it is necessary to make a trip to town, running errands, etc., some member of the family can crank up the machine and make the errand in less time than it would take to bring the team from the field, change the harness, hitch to the right vehicle and get started.

Then, too, while the errand is being made in an auto the team can be kept at work in the field. It also saves the wear and tear of road driving on the farm horses, which is harder than their work in the field.

The cost of maintaining an automobile is not such a very expensive item. It is much less than it would be to keep a good driving team, and, in fact, with a good machine the cost of repairs, etc., is very small. Of course, much depends on the type of the machine. A big car with abundance of power that is made of the best material will stand hard, rough country roads, and is the best type of machine.

My automobile cost \$1,350 and has run 1,800 miles. Gasoline cost \$8.64, or about one-half cent per mile. The cost of oil was \$1.80. The auto is a large twenty-two horsepower machine and is usually pretty well loaded when in use. For repairs I have paid \$2.50.

I use my automobile as often as I did my driving team, and the cost of keeping the machine in order is considerably less than keeping a driving team, not considering the vast amount of pleasure derived from the use of the auto and the time saved. The machine has seating capacity for five persons, and by taking the tonneau off it makes a two-passenger roadster. Furthermore, by removing the torpedo deck, plows, sacks of grain, etc., can be carried on the platform behind.

Because of such adaptability an automobile on the farm will certainly save a great deal of labor, and in a measure solves the help problem. In addition it affords great pleasure and recreation for the whole family.

Another point that should not be overlooked at this time is the fact that the auto is solving the problem of keeping the young folks on the farm. It provides some of the excitement that is so alluring and attractive to city life; affords diversion and interesting pastime, and puts new color into the otherwise staid lonesomeness of farm life. If son or daughter shows an inclination to leave the farm, just mention the possibility of getting an automobile and watch the change of mind.

This point regarding the automobile being a prominent factor in keeping the boys and girls on the farm was emphasized by a number of speakers at the last convention of the Farmers' Union. It was the consensus of opinion that many a boy and girl, who might otherwise have been lured to the city by its attractions and gaiety, has been kept on the farm by the addition of a motor car, which served a practical use as well.

How practical and at the same time economical an automobile is, the Illinois subscriber sets forth in a manner convincing to all. The day when the automobile was an expensive toy or a useless luxury has passed. Automobile agents state that more cars are being sold in Kansas, to farmers, than there are in New York, to city men. The farmer has found out that the automobile is a time saver, a labor saver and a money saver, and that with a modicum of intelligence and

common sense it can be kept in good repair at small expense.

DESTROYING QUACK-GRASS.

The following communication has been received from a subscriber at Forreston, Ill.:

Last winter I bought a farm that would be valuable if it were not for quack-grass. I have not given up yet, in fact I have not tried to get rid of it, as most of the farm is leased for this year. Most of the neighboring farmers are joshing me about how badly I was beaten. The worst of it has a crop of barley on it now. Will early fall plowing do any good toward killing it out? Should the ground be harrowed after fall plowing? I am thinking of covering one piece which I have in oats with straw in spots where the grass is allowing the straw to smother it. Then after harvest I will burn the straw and plow immediately. Will that get it? I have been told that salt will kill it, also saltpeter. Will that not injure the ground afterward? Any information on this subject will be greatly appreciated.

We by no means regard quack-grass as the worst weed found in the great central West, and in our opinion this pest cannot possibly depreciate the value of the land more than its rental price for a single year, plus the labor involved in cultivation. Sensible cultural methods for one season will absolutely destroy this pest and, if the matter is taken in time, a crop can be grown into the bargain. Quack-grass is not a deep rotting plant, though the roots live from year to year. To bring about their destruction is simplicity itself, though it involves labor. Plow the land to a considerable depth in the fall and keep the surface cultivated in the spring so that no leaves or stems are allowed to form. It may require cultivating as frequently as once a week early in the season, but by the first or middle of June the plants will be so feeble that a cultivation every two or three weeks will answer every purpose.

Quack-grass has been made the subject of a very interesting book written by P. B. Crane, of Minnesota, a gentleman who claims to be the only man in the United States who has succeeded in effectively eradicating quack-grass in a single season. We have no desire to take away any glory from Mr. Crane, but, as a matter of fact, we have seen whole sections of land that were badly infested with this pest absolutely cleaned in a single season, and this was done long before Mr. Crane's book ever appeared. We have had personal supervision of land where quack-grass was absolutely killed in a single season and, furthermore, the latter part of the growing season was utilized to produce a crop.

But here is Mr. Crane's method in his own words:

The Crane system of quack-grass eradication is based on the principle of turning over the quack-grass sod, roots and all, to a sufficient depth so that we can cultivate or disk the top soil without disturbing the roots.

Our chief aim then is to keep this sod where we have placed it until the roots are decayed or absolutely dead. We do not want to plow that land again and turn up those roots until we are sure that the roots are absolutely dead, or else the work may have to be done over again.

A field thoroughly sodded with quack-grass should first be plowed eight or ten inches deep. If the spray system is used, the spraying must, of course, be done first.

Use a breaking plow and lay the sod over flat and smooth.

A jointer should be used on the plow so as to drop the sod down flat in the furrow, and not lay the end edge up on top of the other slice. When this plowing is properly done it means the saving of much work.

When it is possible to do so, one should plow around the field, thereby avoiding back furrows. While this may not appeal to some practical farmers as the ideal way to plow, the object in thus plowing is to completely turn the sod under and have three inches of clean dirt on top of the sod after it is turned over.

When the plowing is finished, hitch onto the disk and drive the same way that you plow, and lap the disk half way so that you virtually turn all the ground twice.

Disk twice over in this manner.

In using the disk one should be very careful not to turn the green sod up again, as we must remember at all times that we are trying to keep it underneath the dirt. In case the disk goes too deep, set it so that it will not turn so much dirt, and in some cases the driver must walk.

In our treatment remember we are just turning the top dirt, using this dirt as a blanket, so to speak, to starve out and rot those roots underneath.

After you have disked sufficiently—in other words, when you have formed a fine dust covering or mulch all over the surface on that field—you can then

let the work rest for a week or ten days, when you should get out your disk and go over it again.

Set the disk at as steep an angle as you possibly can—be sure of this—and lap the disk half way each time so that there is no open space left where the center of the disking passes over the ground.

During this second disking period also cross disk and let the work rest for a week or ten days. Then repeat the work.

Mr. Crane cautions against plowing the field the second time, which, of course, is the soundest kind of advice, because that simply brings the roots to the surface where they get air and throw out growth. He advises plowing any time between May 20th and November 1st, but he contends that the plant is weakest just before it produces seed and that effective work can be done by plowing the soil at that time.

We desire to add that when cultivation is kept up in a thorough manner until the middle of the summer, it is entirely practicable to sow cane at the rate of eighty or 100 pounds per acre, or millet at the rate of four pecks per acre. These are hot weather crops and they come rapidly and absolutely shade the ground so that the weakened quack-grass roots cannot make any showing whatever.

CATCH CROPS IN CORN.

Where corn has been kept in good condition until it is laid by, that is, where the weeds have been kept in check, it is entirely practicable to use certain catch crops on at least part of the area devoted to corn. If it is the intention to hog down a few acres, then some catch crop should be used by all means.

Possibly rape will make a greater growth in shaded places than any other crop intended for pasture purposes, and it should be sown at the rate of four or five pounds per acre previous to the last time of cultivation. As the seed is small, it is highly important that the shallow culture method should be practiced the last time. Otherwise, part of the seed will be buried so deeply that it will never germinate.

While rape alone gives very satisfactory results, it is sometimes advisable to use one or two leguminous crops, because these not only enrich the soil, but they are themselves rich in protein, so that they have the effect of balancing the ration. A very good mixture is one composed of Canadian peas two pecks, cowpeas one peck and rape four or five pounds per acre. Cowpeas along with rape will answer the purpose quite well, but ordinarily the seed is high in price and, in order to get a heavy stand, the cost of the seed really amounts to considerable. For that reason Canadian field peas may be used in part. A mixture of this kind should be ready for pasturing by the first of September and, with this kind of green forage available, there will be very little danger of hogs being hurt with the green corn, providing they are accustomed to it gradually.

It is sometimes practicable to sow timothy and clover in corn, but in that case the prime essential is that the corn shall be clean at the time of sowing. If it is at all weedy the chances are that the stand will be so thin that it will not pay to leave it the following year. On the other hand, with a good, clean seed bed, there is about one chance out of two of getting a satisfactory stand. If the seed can be sown just after a rain and the surface thoroughly cultivated with a shallow cultivator, there will be very little doubt about a stand resulting, but if the soil is dry and the seed should remain in the ground for a period of two or three weeks before germinating, then the outcome may be doubtful. Of course, where it is the intention to establish a meadow by sowing timothy and clover in the cornfield, it should by no means be pastured in the fall.

FORAGE CROPS AFTER SMALL GRAIN.

The stand of corn in the central West is not up to the average on account of last fall being unfavorable for the saving of seed and because the weather was unusually cold during April and May this year. Hay will be

light and it almost appears now as though the yield of straw in our small grain crops will not be as large as usual. In view of this, stockmen are beginning to fear the prospect of being short of fodder during the coming winter and spring. Our aid has been sought by a large number of readers who are in this predicament. The best advice that we can give under the conditions must include the recommendation that a larger acreage of corn fodder be saved this fall than usual. The conditions ought to popularize the silo, which unquestionably furnishes the best possible means of getting the most out of a given amount of corn fodder. But there are other ways by which the supply of roughage can be increased if we have our normal supply of rainfall just after our earliest small grain crops are removed.

Those who have an area of winter wheat need have little hesitation about plowing part of their ground after removing the crop and sowing it to millet at the rate of three or four pecks per acre, or on the other hand, cane may be seeded by using anywhere from forty to one hundred pounds of seed per acre. If the soil can be put in fairly good shape and these crops sown by the 15th or 20th of July there will be a reasonably good prospect of getting a satisfactory yield. Early oats and barley may also be harvested in time to sow these crops. Of course, it goes without saying that if the weather is unusually dry, with an insufficient supply of moisture in the surface to germinate the seed, no man is justified in going to the expense involved to get the seed. On the other hand, if roughage is going to be scarce, it might be an exceedingly good plan to plow shallow a few acres, harrow it two or three times so that sowing may be done promptly if the rainfall is sufficient to insure germination.

On soils that are very friable, that is, those that contain a considerable percentage of sand, it is sometimes entirely practicable to disk the seed in on the stubble. In that case we get rid of the labor of plowing and actually save time besides by getting the seed in early. Millet and cane are both warm weather crops and very often when seeded late either crop is ready to cut in sixty or seventy days.

ALARMING SALE OF CALVES.

The Live Stock Report calls attention to the fact that arrivals of calves at Chicago for May broke all previous records. Receipts were 72,398, against 62,759, which has stood as the previous month's supply since May, 1905. The big crop of vealers this season is due in large measure to the expansion of the dairy business in the territory tributary to Chicago. To save the milk for market the ambition of the average dairyman has been to sacrifice the calf as quickly as possible. For that reason there has been a closer marketing of the little bawlers and the majority were sent in as soon as they were able to pass government inspection. Prices for calves, notwithstanding the liberal receipts, were exceptionally high and most of the time averaged nearly a dollar higher than a year ago. This is accounted for on the ground that all meat products were high and that veal was about the cheapest commodity on the list.

A halt must be called in the marketing of vealers or this country will eventually face a real meat famine. Possibly the males of grade dairy cattle go to the proper destination when they are sent to market as vealers, but our observation leads us to believe that there is an indiscriminate slaughtering of the females as well as the males. We have time and again noticed at railroad sidings, trucks piled with vealers, where there seemed to be as many females as males. No man needs to be told what will result if this practice continues. The United States is several million cattle short now as compared with their former record, and every year adds immensely to our population. Except in limited areas near large cities where land is high in price, there is no excuse for the wholesale slaughter of veal calves. If a man has good foundation dairy stock, whether they be grade or pure-bred, the calves of the

best females are certainly worth raising and it only requires a change in the system employed to bring a heifer more cheaply to the breeding age than she can be purchased as a mature animal. The rule holds with beef as well as with dairy cattle. If a cow is the right kind of a producer certainly her female progeny must be worth at least one try-out as a breeder. All may not be profitable producers, but in sending the heifer calves to market by the tens of thousands we are certainly sending a large number that would, if saved, be profitable producers.

EFFECT OF LIVE STOCK ON SOIL FERTILITY.

The appreciation of land values is sometimes given as the excuse for the farmers of the United States going out of the business of producing live stock. Our animal population is several million head short of what it was a decade ago, and we have a certain class of so-called scientific men who are teaching that because such supply of farmyard manure as can be produced on the average farm is so insignificant as an adjunct to the fertility supply that it cannot be depended upon to maintain the productiveness of land. These scientists claim that more and more we must resort to the use of commercial fertilizers, and in addition we must grow a larger area of leguminous crops.

This paper has never given any quarter to those teachers who belittle the live stock policy in the relation to the maintenance of fertility, and we find that in the older countries of the world, where agriculture has been carried on for many centuries, live stock is given a much more important place than is the case in our comparatively new country. For instance we have only an average of sixteen head of cattle to a hundred acres of farm land in the United States, while in Germany there are twenty-nine head on the same area. This shows a difference of 78 per cent in favor of the foreign country. Germany has 71 per cent more swine per farm than the United States and almost 50 per cent more horses. In a measure the same relative proportion exists as between the United States and all the older countries of Europe, particularly England, Scotland and France. As a result of this policy what do we find? In Germany the yield of wheat from 1901 to 1905 was twenty-eight bushels per acre, while in this country it was a little less than fourteen bushels. In Great Britain the yield of wheat in the same period was thirty-one bushels per acre, while in Belgium it was thirty-four bushels. The yield of oats in Germany in the same period was forty-one bushels, while in this country the yield was thirty-one bushels. The above facts and figures have been taken from a bulletin recently prepared by the Department of Agriculture on the question of soil conservation. Speaking of the effect of the live stock, the author of this bulletin, Prof. W. J. Spillman, says:

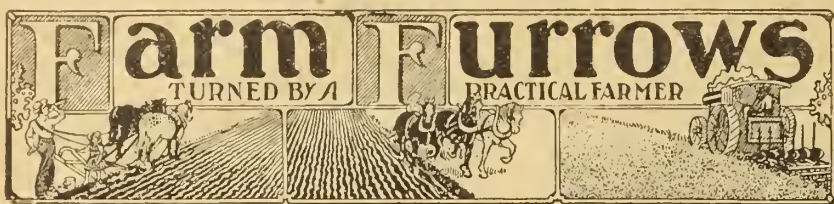
The effect of live stock on the fertility of the soil needs no demonstration. It is well known to every intelligent farmer. Up to the present time, at least, no system of agriculture has been permanently profitable without the use of domestic animals as a means of maintaining the productiveness of the soil. Whether such systems are possible remains to be seen. It may be that the use of legumes and other crops producing humus, combined with the judicious use of commercial fertilizers may serve to maintain high yields, but the supply of commercial fertilizers is not unlimited, and ultimately these soil amendments will have to be dispensed with.

In the first place, we must increase the number of domestic animals on our farms. Where land is farmed by renters the leases must be made for longer terms, and where the renter has not the capital to provide the proper number of domestic animals these must be supplied by the land owner.

It is not our purpose to belittle the efficacy of commercial fertilizers, because in the countries mentioned thousands of tons of fertility in commercial form are added to the land annually. What we contend is that live stock raising constitutes the backbone of sensible agricultural practice. We have got to the point in the central West where our farms average less than 160 acres in size, and on that area it is possible by a system of live

stock breeding and feeding to bring land up to that point where as much corn and as much small grain is produced on forty acres as we now average on eighty acres, thereby leaving a much larger area for the pasture purposes and for the production of legumes. If the states of the great

central West are able to show a much larger average production of grain in the future than they can at the present time we believe that it will then be proven conclusively that this increase has come as the direct result of the practice of keeping more animals on the farms.



The barb wire fence was an invention that Satan might be proud of. It has cost this country millions of dollars in damages to horses. It is good for the bull and the mule, for the mule rarely gets caught in it, but is bad for the colt and the sheep. You can get about as much wool by shearing the fence of a barb wire sheep pasture as you get by shearing the flock.

About the best thing I ever tried for an old, sod-bound, red-top pasture was to give it a grand good scrubbing with a disk when the frost was out about three inches in the spring. It loosened the "bugs" and the black birds got them, and there were three spears of grass growing where one grew before.

When it is growing, an almond tree, both leaves and wood and the nuts, look so much like the peach that the novice is easily deceived, yet one is a nut and the other a fruit. We eat the inside of an almond and the outside of a peach. Even the fuzz on a peach is duplicated in the almond. The meat in the inside of the peach stone tastes some like the bitter almond. Almonds grow in Oregon side by side with the peach trees and the crop is a good paying one generally.

If the same care is given to an orchard in the central West that the Californian gives to his, it will produce as many dollars. Some of the best orchardists are in the far West. The weeds are not one-half as bad to keep down there and grass does not interfere as it does in the corn belt, but they keep their orchards far cleaner than the average Iowa or Illinois farmer does his cornfield.

The change from cool to warm weather was a change for the better. Almost everyone wants some hot weather in the good old summer time, if for no other reason than to have something to talk about.

About the meanest man I ever saw came to my notice the other day in the shape of a blacksmith who cursed the weather on a rainy day because it hurt his tire-setting business. A man with a disposition like that should move to the Sahara desert.

By the way, the blacksmith who can set a wagon tire so that it will stay on and not get it tight enough to spring the wheel out of shape is getting work enough to make him enjoy even the wet weather.

Small grain fields have improved greatly since warmer weather came, but those that were plowed last spring are still lumpy and the grain is very uneven. It is hard to tell how grain will turn out before it is time to pull into the field with the binder.

It is almost impossible to build a woven wire fence that will stop little pigs without using a barb wire at the bottom. Even then it requires attention to keep the little fellows from burrowing their way out. It sometimes seems that they can crawl through a rat hole to get out and play in the garden.

Though an evergreen windbreak is a thing no prairie farmer should be without, it must be admitted that it makes a hot day seem pretty sultry to those who cannot get out into the fields.

There has been a great deal of discussion as to the number of stalks of corn that should grow in a hill to get the best results. The majority seem to be of an opinion that where the

season is long enough to mature the large varieties three stalks are enough, but farther north, where the smaller varieties are grown, four, or even five stalks may be grown if the soil is fertile.

Milking is a job that will almost draw the sweat out of a wooden Indian on a hot evening, but no true farmer complains when the weather is hot now, because it is "bully for the corn."

Soft coal as fuel for the kitchen range does not tend to promote do-



Pontiac Order 53437, owned by Mr. F. W. Allis, of Madison, Wis., has an official record of 549.1 pounds of milk, containing 21.03 pounds of butter produced in seven days. She is a daughter of Hengerveld De Kol, the sire of 102 A. R. O. daughters—Pontiac Gladi, with 32 pounds; Pontiac Artis, with 31.721 pounds; Bloomingdale Hengerveld Ormsby, with 31.50 pounds; Pontiac Jewel, with 30.72 pounds; fourteen other daughters, between twenty-five and thirty pounds; thirty-seven others between twenty and twenty-five pounds and forty-seven less than twenty pounds.

mestic tranquility to any remarkable extent. The housewife generally has enough to do without acting the role of chimney sweep about twice every week.

Carelessness in making contracts with renters and hired men causes a great deal of trouble and sometimes expensive lawsuits. It is a good plan to expect trouble of all kinds before contracts are made and to do all that is possible to avoid it afterwards.

The same man ought to run the same self binder. Changing off means that neither so thoroughly understands the machine. Adjustments have been made occasionally and where two drivers have a hand in it one often undoes what the other does. Hired men, when they change from running the binder to shocking, often leave the oiling too long, and sometimes each leaves it for the other to do.

THE INSPECTION OF PERCHERONS.

After July 1st no imported horses will be accepted for record by the Percheron Society of America until they have been inspected and checked by an authorized representative of the Society. Such inspection will include, at the outset, a careful comparison of the horses and their French certificates of breeding, for the purpose of definitely establishing the identity of the horses as described in the French certificates. This will be further checked by requiring all importers to forward the official invoice at the time the certificates are sent in, to enable Secretary Wayne Dinsmore to have full information as to the number of horses imported, before issuing American certificates and the customs pa-

pers which relieve the importer of paying duty on such imported horses.

By action of the board of directors at a meeting in May, the by-laws were so amended as to permit of the employment of inspectors for the above mentioned purposes. Under the new by-laws covering such inspection, authority is so broadened as to provide for a rigid veterinary inspection for soundness and a general report as to whether the animal is of suitable size, conformation and quality, to be of value in improving American Percheron horses. Horses reported not fit will be refused registration, but any owner may on suitable showing, be granted a reinspection. Any American breeder may call upon the society for such official inspection, and the society may, at any time, order the inspection of any, or all, American bred horses, before recording the same.

On account of the magnitude of the undertaking, no attempt will be made to put this full plan into force at once, but authority for such work now exists and it will be extended as rapidly as the Percheron breeders of America deem wise and expedient.

At a meeting between representatives of the Percheron Society of America, and officials of the department

markedly unsound, or so inferior as to be unfit for breeding purposes, from being shipped to, or landed in this country. America has room and need for good horses, but the sub-standard kinds should be at once debarred from entry. Part of this work the department of agriculture is willing to undertake, and the Percheron Society has assurances that the department will co-operate, to the full extent of its powers, in all work looking to the improvement of the Percheron breed.

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of agriculture, held in Washington, D. C., on June 16th, the department was requested to establish a thorough inspection, both as to identity and soundness, for all imported horses. It was pointed out that such inspection should properly be made at the European port of shipment, as cattle are inspected for disease before being loaded in ships for transfer to the United States. In event such inspection cannot be made there, the Percheron interests urged that it at least be made at port of entry to this country, so that full information as to the horses imported may be at once available to the Percheron Society of America. The Percheron Society further recommended that the department of agriculture prevent horses that are



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CURRENT EVENTS

ARIZONA and New Mexico will at last come into the union of states, congress having passed the statehood bill some days ago. Under the bill, however, it is necessary for the constitutions of the two states to be agreed upon by the citizens and to be approved in Washington before the states are formally admitted. This will require some time, so that it will be next year or possibly the spring of 1912 before two more stars are placed upon the flag. These are the last continental territories. They have waged a strenuous fight for admission to the Union for many years and were at last successful. Both territories are in a prosperous condition and fairly well populated. They received the news of the passage of the bill with exuberance. The Rocky mountain states are particularly pleased with the statehood bill, as it will give them four more senators and several additional congressmen to work for conservative measures.

CONGRESS has passed the administration railroad bill, President Taft has signed the measure and it has become a law. The provision giving the interstate commerce commission authority to investigate proposed freight increases goes into effect at once, while the other provisions do not take effect until sixty days after the passage of the law. President Taft has been greatly concerned over the fate of this bill, which is one of the most important things accomplished during his administration. It is believed that it will go a long way toward harmonizing difficulties between shippers and the transportation companies. The especial traffic court which it provides will dispose of controversies much quicker than in the past. The railroads seem to be not only willing, but anxious to meet the public half way and to give service that the business and the widespread prosperity demand. It is confidently expected that the new measure will work out to the satisfaction of both sides.

THEODORE ROOSEVELT has been spending his time quietly and in seclusion at his home at Oyster Bay. Following his return from his trip through Africa and Europe, he went to New York for the wedding of his son, Theodore, Jr., to Miss Eleanor Alexander. The ex-president makes two trips a week to the metropolis to attend to his editorial duties, but the remainder of the time he spends quietly at Sagamore Hill. He has absolutely refused to be interviewed and has given out no statement whatever, either on public affairs or private matters. He will remain in as much quietude and privacy as the public will allow him until the latter part of August, when he will make a trip through the grain belt and as far west as Cheyenne, Wyo.

SECRETARY KNOX has definitely decided to remain in President Taft's cabinet. He was a tentative candidate for the gubernatorial nomination in Pennsylvania and it was conceded that he could have the honor for the acceptance. After several conferences with the president, however, he announced that he would remain at Washington. It is well known that President Taft considers Knox one of the greatest secretaries of state the country has ever had. He has solved a number of intricate diplomatic problems and possesses peculiar fitness for the position. It has been frequently reported that Knox was not satisfied with the portfolio, but this would seem to be erroneous in view of his declining to leave the office.

JAMES A. PATTEN, of Chicago, and seven lesser figures in the speculative field have been indicted, charged with conspiracy in restraint of trade under the Sherman

anti-trust law. The indictment was returned by a special federal grand jury in New York. Five counts are embraced in the indictment, the first charging that the defendants "unlawfully did conspire with certain corporations, not herein indicted, to demand arbitrary, excessive and monopolistic prices for cotton." It will be recalled that Mr. Patten attempted to corner the wheat market some two or three years ago, and finding the job too big for him, fled to the seclusion of a New Mexico ranch. He has been confining his attentions to cotton recently and because of his efforts to corner the market and to bull the prices the government intervened. It is expected that the cases will be pushed to a finish, as the government has evinced a determination to do all in its power to stop the manipulation of the markets by financiers who attempt to secure monopolistic corners.

CHEAPLY BUILT HAY BARRACKS.

To the Editor of The Homestead:

It pays to store hay under shelter, as the waste around stacks left without covers will soon amount to the cost of a good roof. Another item is the time gained by use of the horsefork which cannot easily be used when the stacks are made in the fields.

The frame for a hay barn can be made at small cost from poles cut in the woods, if a grove is near the place. Poplar poles are preferable at this season of the year because they are easily peeled and so make a lasting timber. Three bents made a substantial frame for a shed twenty-eight feet wide by forty feet in length, with posts eighteen feet in height, at little cost except for the roof boards and rafters. The poles, five for each bent, were cut and peeled in the woods, hauled to the site of the shed, and bolted together by five-eighths bolts. Posts were eighteen feet; brace poles were sixteen; and the long girth was twenty-eight feet long. For the rafter pieces we used two by six scantling, and the same for the plates. For the ridge, a 4x4 or a green pole of like dimension is best, for the track for hay carrier is hung from this timber. Light poles spiked on the outside from the top of one post to the foot of the post in the next bent help to stiffen the structure and keep the hay in under the drop of the eaves. Grooved roofing is good for such a roof as this; and it is also an excellent plan to board up the back end of the shed about half way down, to keep out driving rain and drifting snow. The posts rest upon five-foot base posts set in the ground three feet or more.

Raising the bents was found to be no light task as the poles were green and heavy, but a dozen neighbors with spiked poles put them in place in two or three hours, and some of them were so much pleased with the idea of a cheap substantial hay barn built in this way that we soon had opportunities to assist them in raising their own barracks. None have been disappointed except one whose shed blew over in a wind storm. But one section should be filled at once, as it is much easier to take out the hay this way than when it is built up together in a solid mass. Subscriber.

Gardening as a curative pastime is the newest idea introduced by the head of a fashionable sanatorium for nervous women, and each patient has her particular plot to look after. She is even given the task of spading up the ground and is expected to spend a certain amount of time daily cultivating it, regardless of the weather. On clear days, after the garden hour, the entire force of fair women is supposed to turn to and rake and burn leaves and fagots and play they are amateur farmers. The benefit that the out-of-door life and interest does to the nerves is incalculable and the novelty of it makes it something to be looked forward to.

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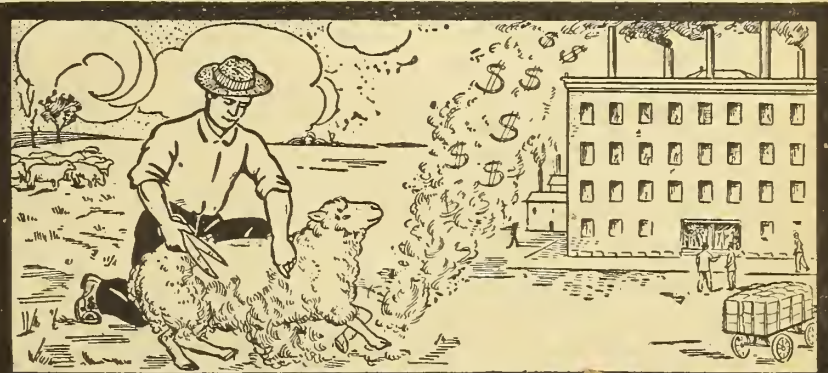
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Shock or Stack Thrashing, Which?

A Brief Discussion of a Most Important and Timely Topic
by Men Who Know What They are Talking About—
Stanch Advocates of Both Systems Give Their Views.

FRANK HENNING, Coffey county, Kan.:—I always prefer stack thrashing for the following reasons: I begin to stack as soon after cutting as possible in order that the grain and straw will cure sufficiently so that it will not heat and mold in stack. I do not like to leave grain in shock, exposed to the weather, as rain and sunshine soon bleach out the color and consequently ruin the quality of the grain. I also think that grain that has gone through the sweat in stack does not get so dusty in the bin. I have seen shock thrashed grain get so hot in the bin that it was no good for seed. When one thrashes out of the shock he has to wait his turn for the machine, and sometimes grain is thrashed when it is too wet, in order to rush the job through as everybody is anxious to get the grain in. I have seen fields of shock grain standing in shock until the grain was so bleached out that it was no good for seed, feed or market. Some say there is too much extra work in stacking. My experience, as well as observation has been that one is well repaid for the extra work. Everyone cannot thrash first, someone's grain has to take the weather until the thrashers can get there. I have turned shocks and rebuilt them and have seen others do the same, which would have more than stacked the grain, besides the waste. Another reason for stacking and later thrashing is that grain properly stacked keeps the straw bright and good, while early thrashed straw piles, no matter how well stacked will rot more or less when exposed to all of the summer and fall rains and hard winds that we have at that time of the year. Furthermore, one does not need as much help, which is quite an item these days, and the fewer hands at a time, the easier it is on the good housewife also. Last, but not least, when I have my grain in stack I say let her rain, for if I can't thrash this week maybe I can the next. Anyway I don't worry about just when they will get here. I do not consider stacking so that stacks will keep, such an awful job. I have stacked grain for twenty-two years and in all that time I can truthfully say that I have not lost as much as five loads of bundles all told. Sometimes a hard wind will give a little trouble, but with good heavy hangers on a good length of wire so that the weights will come well down on the sides of the stack there is little danger.

CHARLES KOONTZ, Hancock county, Ill.—At the risk of appearing to take both sides in this discussion I will give my views on the subject, "Shock or Stack Thrashing, Which?" I can discuss the matter from the standpoint of both thrasher and farmer, having had a good deal of experience in both lines. I have a machine of my own and have also stacked my own grain owing to the machines having left the neighborhood. As an operator of a machine I will say that there are very few good stackers, and wet stacked grain is the hardest of all to thrash because it will not dry out that season and consequently a great amount of grain will go over in the straw. While there is some chance to dry out shock grain, one can do nothing with stacks that have taken water. If there is as much as a day's thrashing I think it best to thrash out of the shock if it is possible to get a machine reasonably soon, but if not it is certainly best to take care of the grain. Oftentimes a man with a small half-day's job will wait six weeks for a machine, thereby letting his grain bleach in the field and losing the use of the field as a pasture. Besides there is very likely to be some rainfall which would make the ground ideal for plowing, and it is a recognized fact that where oat stubble is to be plowed for a fall crop, the sooner it is done the better, thereby allowing the ground to pack down and by occasional harrowing kill the weeds, and retain the mois-

ture for the fall sowing. If the field has been seeded to grass the shocks are almost sure to kill the young grass, and if the grain is heavy this will be a very considerable portion of the entire area of the field.

This whole subject is a matter of dollars and cents according to the position in which one finds himself. If he has a job of any considerable amount and can get a machine reasonably soon, as well as plenty of help, he had better thrash out of the shock, for in this way he takes no chance of damaged stacks. It is also cheaper, everything considered, unless one gets a machine that is noted for staying, because where so many hands are employed the loss of a few hours a day counts amazingly at present prices charged for labor.

On the other hand, if a man has a small amount and does not know how soon he can get a machine, the fact that he does not know how to stack is no excuse for shiftlessness. He had better take chances on a little damaged grain as an offset to the certain advantage of less help to operate the machine, the use of the field to glean with stock if practicable, loss of grass under the shocks and of having the grain badly bleached. Or, if the field is to be plowed for fall sowing, there is the advantage of getting this done early, which is always best and will often increase the value of the crop one-half.

GEORGE W. WILCOX, Dallas county, Iowa:—I prefer stack thrashing to shock thrashing. Twenty or more men and nine or ten teams are required in shock thrashing at a time when every farmer is very busy, while if it should happen to rain everything must stop. Should this force of men and teams stop for half an hour twice a day enough time will be lost to have stacked the grain, and besides this the help must all be paid back.

In stack thrashing neighbors generally exchange work, and with box racks only four men and two teams are needed. The grain goes through the sweat either in stack or in the bin. I would prefer stacking as one can thrash faster and the straw will keep better than in straw stack during the fall rains. After the grain is stacked only eight or nine men are necessary and this reduces the amount of work for the cooks. Shock thrashing is done during the very hottest weather, while by the stack method it comes later in the fall in the cooler weather and is consequently better for all concerned.

THOMAS LAVERENTZ, Thayer county, Neb.:—I hereby submit the following reasons for or against thrashing out of stack or shock. I am in favor of stacking because it is more economical and as far as time is concerned you can stay at home when you stack your grain. What farmer is there that has not traveled from one to three miles to the place of thrashing and often upon arriving there has had to return home again because a little shower—not enough to make a man look for shelter—would come over and spoil thrashing for the day? And even if you did work all day you would not get home until dark. You could probably say the same about stack thrashing, but it is not likely that time of the year, and you would only be away half the number of days, as it takes only half as many hands. When you stack the grain it can be stacked in the yard where the cattle can have shelter in the winter and can rub the flies off during the summer, while the chickens can get all the stray kernels of grain besides plenty of exercise hunting for them. In addition to this you will have a large manure pile that will more than pay for the labor. In thrashing from the shock this can seldom be done on account of lack of room in the yard for rack wagons and grain wagons and lack of help to haul

the grain shocks home if they are any distance from the house. Another argument against shock thrashing is that the straw gets nearly all the heavy rains that come along and in the winter it is frozen solid. It has often been said that the butts of the stack are almost lost, but that is not necessary. I first plow the ground under the stacks then put a little straw on it to keep the dirt from hanging to the sheaves then I plow one furrow around the setting and the butts will be as good as the top. I use stakes about seven feet long and drive them down with an ax to keep the top straight. Some people thrash out of the shock because they can't stack. All that is necessary is to keep the center high, and if in walking around the stack the foot that is toward the inside feels lower than the one on the outside, the center is too low. Lay the sheaves on the inside closer together and leave a little space between them on the outside ring. Another good reason for stacking is that part of the ground will be cleared off the first day and if it rains you can go to plowing right away. The early plowing brings the best wheat.

A. L. MASON, Sac county, Ia.:—I have been so badly beaten twice out of three times by trying to thrash out of the shock, that after twenty-five years' experience I must in this case, if in no other, follow in father's footsteps and do as "dad" does. He taught me how to stack grain sheaves about thirty years ago, when but a mere boy, and I have never been sorry for it, especially after trying to thrash out of the shock three times out of the twenty-five years. Two of these times were complete failures, as the oats became heated in the bin and would not grow while the straw was soaked by fall rains. Three years ago I had to get meat, etc.; and make the women work on Sunday getting ready for twenty-two or twenty-five men to finish the job on Monday, but after Saturday noon's rain I think a few such experiences would convince anyone that they had better take their own little force and on dry days coolly get the golden sheaves into the plump and well-built stacks. Some will say they do not know how to stack. That may all be true, but you can and should learn. Another instance where our country schools do not teach our farmer boys how to do things. Then there is almost always some one in the neighborhood who can stack, so by changing work with him or hiring him outright, even though you have to pay him \$4 or \$5 a day, you will sleep that much better when the grain is in the stack than if it were standing in the field in the rain for three or four weeks waiting for the worried and hurried thrasher. Besides, the price

is not too much for a skilled workman, and as soon as the shocks are in the stack you can get the lambs in the stubble and make mutton out of those morning-glories and other weeds that are now worth about \$8.50 per cut in Chicago.

W. C. STROCK, Warren county, Iowa:—I have been farming now for forty years and have raised all kinds of small grain, and my experience has been that stack thrashing is the best for several reasons. First, thrashing out of the shock is far more expensive as it takes from four to six teams busy to keep the thrasher going. There is always more or less hurry and by rough handling the grain is apt to be wasted. In the next place the farmers have to change

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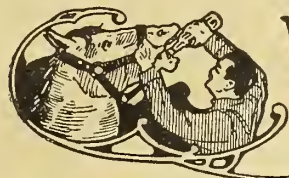
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their crops often, so they sow small grain and clover together. The grain is cut and shocked and the young clover crop may have to stand waiting on the thrasher until the young clover under the shocks is all killed out. It then grows up to weeds and takes from two to three years to get it seeded down to clover. Now I have in years passed run a thrasher and I generally had grief in trying to thrash out of the shock. Here in Iowa we have showery weather and after harvest I have driven a thrasher in the field to thrash out of the shock and stayed right there for from five to eight days trying to pound out thirty or forty acres of shock grain. The shocks get weather beaten often and the straw is of but little account. Again, grain should go through what we call a sweat, and if thrashed out of the shock it has to go through this process in the bin and is apt to heat or mold, where if thrashed out of the stack and has gone through the sweat in the stack the grain is more plump, has a better color, makes better flour and brings a better price. My experience has been to always stack as soon as dry and if properly stacked will stay in good condition till ready to thrash. Now the straw, when wheat has been properly stacked, has become valuable here in Iowa and I have seldom seen any good bright straw thrashed from the shock. When grain is stacked it will stand quite a heavy rain and can be thrashed in twenty-four hours, but if in shock it would likely have to stand two or three days. It often happens in thrashing from the shock that the machine is started after a rain, when neither grain nor straw is ready or dry enough to handle, and thrashing then is done at a loss to the farmer.

C. K. CRITCHFIELD, Redwillow county, Neb.:—From past experience I feel that I can contribute a little advice on this subject that may be a benefit to someone. I take the stand that it does not pay to thrash grain out of the shock; first, because it is not in shape to thrash as it has not gone through the proper sweat which all grain must go through before it is in shape to keep after being put into the bins; second, it will not thrash the grain out of the straw, as can be proved by a visit to my straw stacks; and third, the expense is almost double that of stacking the grain. To illustrate this I will give my own experience of last year. My son and I had 170 acres in shock for two weeks after being cut, waiting for the machine. And during all this time the two of us were helping our neighbors who were more fortunate than we were in getting the machine first. After it came it took us four days to thrash ours out, with twenty-five men and ten teams. We then helped our neighbors for two more weeks and when it came to settle with them I paid out \$47 to different ones that had worked longer for me than I did for them. Now, Mr. Farmer, if you can figure out any profit in this kind of thrashing and getting your grain in the bins I would like to hear from you. I could have had my grain in stack in one week's time, with only two men and myself and using my own teams. When the grain is in shape to thrash only one-half the help is needed and less than half the teams to take away the grain. Besides, there is the expense at the house—think of the pack of hungry men to feed and the extra work that the women are called upon to wade through, to say nothing of the extra expense. I say stack every time.

W. M. HARTZ, Whiteside county, Ill.:—The question of shock or stack thrashing is one which should be carefully considered by every farmer. I uphold stack thrashing because I get better grain by that method. In the first place, we cannot wait until the dew is off in the morning to begin thrashing, by which time the grain is damp and if put into the bin in this condition the result is that we have what is called burnt grain. As this grain is so much darker than that from the stack the elevator man cannot pay quite as much for it. In regard to the straw, I think that which is stacked is much

better for feed. Now some may say they do not feed straw, but this last winter the most of the straw was fed up instead of hay. And again, I think it costs more to thrash shock grain. I have kept a close account of both and I can save my coal and board by stacking, and if it happens that I need the straw I have good, bright straw to feed instead of the rotten kind that comes from shock thrashing. And this



VETERINARY

PROFESSIONAL Veterinary advice through this department to regular subscribers only. We do not answer veterinary inquiries for the benefit of "neighbors." Parties desiring information will be required to send their names in full with their address. No question will be answered by mail unless accompanied by a fee of one dollar. In order that correct information may be given, the symptoms should be accurately described, stating of how long standing, together with color and age of animal, and what treatment, if any, has been resorted to. All veterinary inquiries should be addressed to this office.

SYMPTOMS AND TREATMENT.

ABNORMAL MILK.

We have three cows that are afflicted with something that causes their milk to becomeropy and clotted. We have been feeding millet and corn fodder, but have not fed them on this for the last few weeks. What is the cause of ropy or bloody milk? How can we stop it? Is it dangerous to drink it?

Ropy milk often is due to bacteria in the milk vessels and perfect scalding and air drying of the vessels ends the trouble. Also see to it that the water used to wash the utensils is pure and clean. If the ropy milk comes from the udder and it sometimes is bloody, then garget is present, and that may be due to any one of a large number of causes. Tuberculosis is one cause and if it is present the milk is dangerous. Test the cows with tuberculin. See recent answers relative to treatment for garget and bloody milk.

WORMS.

I have a bay mare, five years old, weighing about 900 pounds. Her hair looks good and she eats all right, but is thin in flesh and is troubled with worms. I have fed her stock food and sulphate of copperas, but still she does not seem to mend. Please tell me what to do for her.

Give a dram of dried sulphate of iron and two drams each of salt and flowers of sulphur in the feed night and morning for ten days; then skip ten days and repeat. Iron should not be given to a pregnant mare.

SCIRRUS CORDS.

My neighbor castrated some pigs for me about two weeks ago and now a great many of these pigs are swollen up and have hard bunches where they were cut, apparently having healed up too quickly or else they were cut too high. Some of those I cut open and found large quantities of matter in them. What can I do for them? Would it be all right to open them as I have been doing?

The scrotal wounds were made too small and the cords not cut high enough. It is best to make very large incisions and then pull the cords down as far as possible and then scrape them through. It will be necessary to open each wound, dissect the cord free from its attachments and sever high above the tumor formed or forming. Pus also should be cleansed out and the wound well washed and then saturated with a 1-500 solution of corrosive sublimate. Pigs do not well stand such operations, being liable to die of shock and especially so in hot weather.

SPRUNG KNEES.

I have just purchased a dark bay colt that will be three years old next month. Within the last three months he has become knce sprung, or "gone over" in his knees. He was broken during February and March of this year and was, at that time, brought into town and has been used as a single driver since. He showed good action and was a good traveler for a colt. His owner evidently gave him more driving than he should have at his age. I do not think that he used any remedy on him. He is stiff and lame in his front legs. Has a good appetite and seems to feel good all of the time, but is too stiff to get out of a walk; does not show any lameness only when he is urged to trot. I have very little for him to do now, so little that it is about equal to absolute rest. I keep him in barn yard where he can go in and out of barn as he pleases. I would like to know if there is any cure for sprung knees and will appreciate any information or remedy that you can give. On account of the horse being so young I have hopes that he will recover, or at least get over the stiffness and lameness.

There is very little chance that the colt will ever be worth keeping as a

driver. The tendons are contracted and thickened and treatment may not remedy the condition. Start treatment by poulticing the fore legs with antiphlogistine for a week. Then massage thoroughly twice a day, after the poultices have been discontinued and the legs thoroughly washed. If the condition persists after such treatment it will be necessary to remove the hair and either repeatedly blister the back tendons with cerate of cantharides at intervals of three or four weeks, or have them line-fired and blistered by a veterinarian. The colt should take all of its food from the floor level and run on pasture when not under active treatment in the stable.

RICKETS.

I had over sixty head of March pigs and when they were about three weeks old some of them could scarcely get up. They were weak across the back and did not have right control of their hind quarters. Since the trouble began I have lost fifteen. They do not get stiff when dead. When small the sows were shut in the hog house and the little yards in front of the house. I kept the sows shut up about three weeks, but the pigs could get out and run. Now they have free run of two pastures, one timothy and clover and the other blue grass. They have separator milk and some corn. Four or five are sick now. They are in good flesh. Most of them linger about six weeks before they die. I have been giving them a few drops of turpentine once a week in their milk.

The sows should not have been shut up, and corn should not have been fed to the sows or to the pigs. Feed slop of milk, middlings, oatmeal (screened) and a little flaxseed meal and mix linewater in it at the rate of an ounce to a quart. Allow free range on grass. Pampering, overfeeding and lack of exercise explain the trouble.

LEAKING OF MILK.

I have a cow that cannot hold her milk. Is there any help for it, also what is the best time to turn cattle onto a rape patch?

Put wide rubber bands around the teats after milking and also paint the ends of the teats with coat after coat of flexible collodion. These measures prevent leaking and in time the sphincter muscles of the teats may

gain in tone and prevent leaking naturally. Feed cattle fully on hay and turn onto rape when dry, not when wet with dew or rain. Only allow a little of such food at a time and gradually accustom the cows to it else it will be apt to cause bloating. The rape should be used just after milking; not soon before milking. A fee of one dollar must accompany a veterinary inquiry to which an answer by mail is desired.

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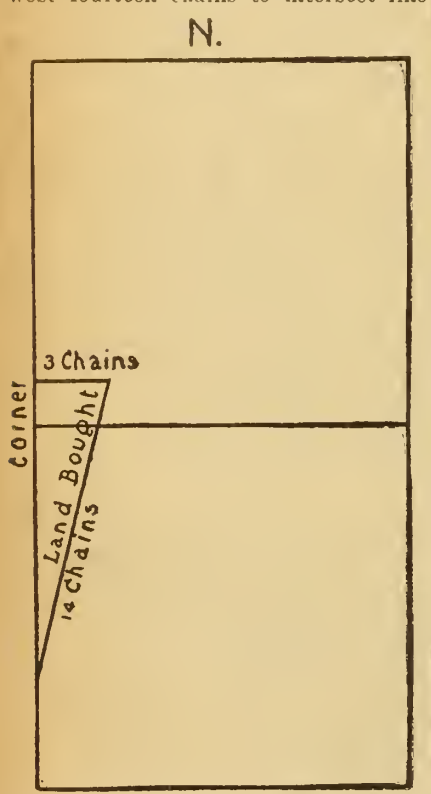
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THIS department is edited by a practicing lawyer who has had years of experience at the bar. He will give accurate and reliable answers to all legal questions when they are of sufficient importance to be of practical interest to any considerable number of our readers. Subscribers who desire questions answered in this department should base them upon a brief, plain, concise statement of the actual facts. To insure immediate attention inquiries should be addressed to "The Legal Department," in care of this paper; but as the inquiries sent are at times very numerous, thus delaying printed answers, those to whom it is important to receive an immediate reply by mail should remit \$1.00, addressed as above.

LAW QUESTIONS CONSIDERED.

COMPUTATION OF LAND.
A Subscriber, Reed's Springs, Mo.—I bought a tract of land from a neighbor, as indicated in the accompanying diagram, and described as follows: Beginning one chain and forty links north of the corner marked in diagram, thence east three chains, thence south-west fourteen chains to intersect line



as shown on diagram. I was to pay therefor \$5 if the land was less than an acre, and if more than an acre I was to pay accordingly for the excess. I have already paid \$5 and got a deed to the land, but my neighbor wants me to pay for two and one-half acres. How much land is there in the piece and what do I owe my neighbor, if anything?

Answer.—There is in the piece of land described, two acres and 8 22-100 square rods, that is to say about two acres and one twentieth of an acre, which at five dollars per acre amounts to \$10.25. You, therefore, owe your neighbor \$5.25.

ABANDONED TOWN LOTS.
A Kansas Subscriber.—A bought unimproved town lots from B, which were later thrown out of the city or town limits, and B has now fenced them in with his other land. (1) Can A compel B to establish the boundary line of the lots at his, B's expense? (2) Can A recover rent from B for the use of said lots? (3) Can A compel B to take his fence away from around the lots?

Answer.—(1) He cannot. The expense of a survey to fix boundary lines, is apportioned by the surveyor between the parties according as their interests appear. (2) A can recover from B whatever the use of the lots has been worth to B. (3) A can compel B to remove the fences from around his lots. A should place the whole matter in the hands of a good local attorney.

CORRECTING A DEED.
A Missouri Subscriber.—A and B bought a farm of 200 acres in Missouri. Later A sold his undivided half to B and gave him a warranty deed therefor. The attorney who drew the deed made a mistake therein and described only 190 acres of said land, and the deed was recorded. A was at the time unmarried and probably is so still. He has a mother and brothers and sisters living. A himself cannot be located. What steps can B take to have the deed corrected and get good title to the other ten acres?

Answer.—B should engage a good lawyer in the county where the land is situated, to bring a suit in the circuit court to reform and correct the deed, so that it will describe all the land intended by the parties to be conveyed by it. Service of the summons on A could be made by publication of the same in a newspaper in said county, if A is living or not known to be dead. If A is dead, the suit would have to be brought against his heirs, that is his mother, brothers and sisters. The circuit court has power to decree a correction of such a mistake in a deed.

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OUTLAWED CLAIMS.
A Subscriber, Gilmore City, Iowa.—My father's estate was settled in Joliet, Ill. He left a wife and four children by a former wife. These four children of which I am one, are now living in Iowa. None of us ever got a cent from our father's estate. Our stepmother was executrix. She persuaded me and one of my brothers to sign a paper which I now think transferred away our rights. We were told that it was merely for the purpose of giving a Mr. Knox the right to attend to the business. My other two brothers never signed any such paper. The property left by our father consisted of \$5,000 life insurance, a house and lot in the heart of the city on which our stepmother has since built a block, \$3,000 worth of hotel furniture, eighty acres of land and \$1,500 in money. The stepmother and administrator claimed there was not enough to pay debts. Our stepmother now owns a large amount of valuable property, and she had nothing at her marriage. Our father willed 300 acres of land which was then in litigation, to us, the children. All this was over thirty years ago. Can anything be done to obtain or secure the rights of the children to said estate?

Answer.—Nothing whatever can now be done in behalf of the children. If they had taken steps in time, they might have obtained shares of the estate, but the time is long past, and all rights which they once had are outlawed,—barred by the statute of limitations.

DESCRIPTION OF LAND—SURVEY.
A Subscriber, Garber, Okla.—A owned a quarter section of land in Oklahoma, north of a section line. He sold the west half of it to B and the east half to C. B made his purchase first, none of the parties knowing that it was a short quarter section. By and by it was discovered that the United States patents called for eighty acres in the east half and lots 3 and 4 in the west half which contain only sixty-nine acres. Can C hold the eighty acres as described by the survey and United States patent, or only one-half of the actual number of acres in the quarter section?

Answer.—B can hold the eighty acres as described in the survey and U. S. Patent, unless there be something in the deed from A to B, which describes the land differently.

TRESPASS ON ROADWAY.
Mrs. Anna M. Bruce, Kellerton, Iowa.—I have a pasture adjoining a public road, with a barbed wire fence between the pasture and the road. A neighbor persists in pasturing his horses in the road next to my pasture, and I cannot with safety let my horses run in the pasture on account of danger from the wire fence, as my horses and those of my neighbor will fight across the fence. I have repeatedly requested him to keep his horses off the road, but he refuses to do so. What can I do to prevent it?

Answer.—If the boundary line of your land is in the middle of the road, you are entitled to all the grass and herbage growing on your side of the road, and your neighbor is a trespasser when he pastures his horses on it. If the road runs through your land, you are entitled to all the grass and herbage growing on both sides, and your neighbor is a trespasser in pasturing his horses on either side. In either case you can bring suit against him for trespass.

ABUSIVE HUSBAND—REMEDY.
A Subscriber, Lecombe, Mo.—(1) Has a man the right to beat his wife in Missouri? (2) If a woman has helped her husband make all the property they have, and it stands in the name of the husband, and he beats and abuses her, what steps are necessary for her to take to get a share of the property, and how much of it would she be entitled to have?

Answer.—(1) A man has no right to beat his wife in Missouri or elsewhere. For such treatment she can have him arrested and punished, by going before a justice of the peace and making complaint. (2) The only

CLASSIFIED ADVERTISEMENTS

ADVERTISEMENTS are inserted in this department of The Homestead (and also published in The Wisconsin Farmer, of Madison, Wisconsin, and The Farmer and Stockman, of Kansas City, Missouri, without additional charge) for seven cents a word each insertion, no insertion being accepted for less than \$1.40, and cash must accompany order. No display type or illustrations admitted. Each number, initial letter and abbreviation, including those in name and address, counts one word. Copy must be mailed to reach The Homestead on or before Friday morning preceding date of publication. Guaranteed circulation of the three papers, 220,000.

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way in which a wife under the circumstances named, could obtain a share of the property, is to bring suit in the circuit court for separate maintenance, or for divorce and alimony, and in either case, the amount would be fixed by the judge of the court.

TROUBLE ABOUT SEED CORN.

A Subscriber, West Branch, Iowa.—I bought some seed corn from a prominent seed man, who guaranteed it to be satisfactory. I tested it and found there was only 60 per cent of it would grow. I wrote the seller about it and he replied that if I had not kept the corn more than ten days to send it back and he would refund my money. Well, I thought keeping the seed more than ten days would not make any difference, so I sent it back more than ten days after I had it. The seller sent me a check for a little more than \$6, sixty cents a bushel, claiming I had kept the corn so long he could not sell it as seed corn, but only for feeding purposes. The original cost to me was \$21. Can I recover the difference from him by law?

Answer.—The difference is so small in amount that it would not pay to have a lawsuit about it. Even if you should win you would be a loser. No one can afford to have any kind of a lawsuit for \$15.00. And in this case you would most likely lose. If you had returned the corn within the ten days, you would have had a chance to recover the difference on his promise to refund the money.

The weather has everybody guessing down in the strawberry belt, especially the railroad people. A reporter on the Joplin (Mo.) News-Herald played up the situation this wise: "Strawberry, thou art a fickle fruit! Vacillating, capricious, changeable, ripening rosy red one day and puffing out in hard, tasteless, greenish bumps the next, there is no way of determining what the crop will be until the crop is plucked. Local freight officials of the railroads penetrating the strawberry zone are driving their stenographers to distraction sending in reports on the berry prospects. 'Great yield promised; fruit doing elegantly; 300 box cars needed,' is the theme of one day's message, while the next day's will read something like this: 'Crop gone to the bow-wows; rain, frost, hail, sleet and snow have played havoc with the berries; sixty box cars will be enough.'"

REAL ESTATE.

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GOVERNMENT examinations announced everywhere July 15th. Write for schedule. Franklin Institute, Dept. U. 23, Rochester, N. Y.

PATENT ATTORNEYS.

PATENTS THAT PAY—Two books free: Fortunes in Patents—What and How to Invent, and 61-page Inventor's Guide. E. E. Vrooman, 812, Washington, D. C.

PATENTS—Watson E. Coleman, Patent Attorney, Washington, D. C. Advice and books free. Terms low. Highest references.

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ENGRAVING—Half tones made from pictures or drawings of stock, for your letter heads, post cards, catalogs, advertising. Quick service, best work, reasonable prices. Write for information. Des Moines Engraving Company, Des Moines, Iowa.

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DOGS FOR SALE—Collie puppies, brood matrons. Also Clark's book on training 25c. Kennels Sunnybrae, Bloomington, Illinois.

MISCELLANEOUS.

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You can lose more money on your old separator in a few months' time than a new one would cost you.

There are certain running parts of a cream separator that are bound to wear out. Then there is the frame and main parts that wouldn't wear out if you used them a hundred years. So why buy an entirely new machine when a few new parts are all you need.

The bowl may be a little out of balance, or some of the running parts may be slightly worn.

The loss of cream may be small. But a few cents a day means dollars in a year. And you can save those dollars, and in addition

Save \$40 to \$60

by letting us rebuild your old machine instead of buying a new one and trading in the old. You can send us the old separator and we'll make it as good as new.

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We'll not ask a cent from you until you get the separator back. Then if the work isn't satisfactory in every way you'll not have to pay the bill.

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Rebuilt Separators. We have many rebuilt De Laval and other cream separators in stock. They're as good as new, and our low prices will surprise you. If you need another separator, write for price list.

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Crop experts predict a very short hay crop this year. The farmer with the Silo need not worry. If you only have ten head of cattle a Silo will pay you big dividends. **THE SAGINAW SILO** is a money maker—the profit producer for hundreds of successful farmers and stockmen. Before you buy any Silo investigate the merits of the Saginaw. Get the best Silo made at the least cost. You'll never buy a better Silo than the Saginaw. Get our special proposition—our big, free catalog. Write today.

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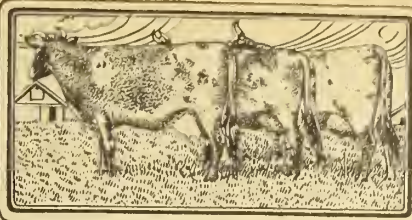
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EARN AIR RIFLE AND RING
WE GIVE this rifle and ring for selling 24 cards of 10 cent art jewelry. Order jewelry. We trust you. When sold send \$2.40 and receive premiums.
Samuel Cooper Company, Dept. 29, Horton, N.Y.

DAIRY



ALL communications relating to dairy matters should be addressed to this office. Inquiries of general interest regarding dairy management and production will be promptly answered.

A PHENOMENAL DAIRY RECORD.

A two-year-old heifer owned by Mr. C. A. Schroeder, of Wisconsin, has recently completed a phenomenal record by producing 88.80 pounds of butter fat in thirty days. This remarkable production is eleven pounds better than the past thirty-day record for that age. Cedar Lawn DeKol Johanna was born February 13, 1908, and dropped her first calf April 23, 1910. She produced 20.69 pounds on an official test May 6th to 13th. She has a distinguished ancestry on both

equipment. The plan was co-operative and the idea was attractive. To be able to manage one's own affairs always seems to be a desirable feature of any kind of business.

But when there are so many men to be bosses, and particularly if few know how to be bosses, the result must be a speedy acquisition of a knowledge of the weakness of the concern. The debt also hampered the new concern. To sum it up in a few words, it was not long before there was greater dissatisfaction among the patrons of the new

creamery than there was before with the old. Naturally the old creamery did its level best to outdo the new concern. Men began to draw out of the new creamery. Sheep follow each other over the fence not more surely than man go after each other in things of this kind. Today the new creamery has closed its doors. The old one has its own way and the farmers have many of them suffered no small loss. The lesson seems to me to be this: If it is deemed advisable to build a new creamery, the farmers ought to put up their own building, equip it where they can do the best, get a good man to run it, appoint the best possible salesman, leave the active management of the business to men of their own number who can be trusted and stand by them, come what may.

E. L. Vincent.

To save the housewife, make provision by which the windmill or gasoline engine will send water to the house. The amount of water a woman will use when she can have all she wishes by a simple turn of the wrist is surprising.

Botts & Son's Short-horn Sale.

Messrs. R. W. Botts & Son made a sale of Short-horns at The Elms Farm, near Plymouth, Ill., June 9th. There was a large crowd present, but the bidding was somewhat slow and bargains were secured by many of the buyers. Messrs. Botts & Son presented the cattle in good condition and investors will undoubtedly be well repaid on all their purchases. The top of the sale was \$300, paid by Mr. W. H. Ritter, of Colfax, Ill., for the Scotch bull, Royal Lancaster, by Baron Secret, and at the price he should be a decidedly good investment. Messrs. Rigg & Glasgow, of Mt. Sterling, Iowa, topped the female portion of the offering at \$200, paying that price for the Cruickshank Verbera cow, Ruth Knight. Two steers were included in the sale, and Mr. J. W. McDermott, of Kahoka, Mo., secured the top one at \$77.50. He will be added to a load that Mr. McDermott is feeding for the International show next winter and if the balance of the load is as good as this one Mr. McDermott will make them all hustle. The list of buyers presents several new names, evidence that there is a good demand for Short-horns, while the brisk demand for bulls that was evidenced at the sale shows more plainly than anything else the general awakening in cattle circles all along the line. Messrs. Botts & Son conducted the sale honorably, and Col. George P. Bellows officiated in an efficient manner, having for his assistants Messrs. Cottingham and Johnson. The list of buyers included Messrs. J. F. Foley, Plymouth; R. E. Worrell, Bowen; Frank Riley, Plymouth; W. J. Beck, Fort Madison, Iowa; Rigg & Glasgow, Mt. Sterling; Albert Peter, Payson; H. W. McPherson, Denver; A. J. Harris, Adrian; M. P. Berry, Carthage; W. Hugh Young, Rushville; George Ellison, Elvaston; W. H. Ritter, Colfax; Chas. Wilkinson, Nauvoo. The average on thirty-four females was \$100, on nine bulls \$136 and on forty-three cattle \$108. In addition two steers were sold for \$140.



CEDAR LAWN DE KOL JOHANNA.

her dam's and sire's sides. Her sire, Sir Johanna DeKol, has twenty-seven daughters in the Advance Register and three sons with A. R. O. daughters. Her dam, Mercedes Athenia Inka DeKol produced 20.31 pounds of fat on an official seven-day test when four years of age.

In commenting upon the remarkable record of the Schroeder heifer, Professor Woll of the Wisconsin Experiment Station has recently said: "It is wholly inconceivable that she could have produced at the rate of over three pounds of butter per day for the month were it not for the accumulating effect of breeding strictly along dairy lines that lies back of her." Her performance certainly shows the value of the right kind of breeding for dairy production.

STUCK BY CREAMERY PROMOTERS.

To the Editor of The Homestead:

That tells the story of many a farmer and many a community, stuck by creamery promoters.

The men of my own section were caught out in the same boat with farmers from many other sections of the country. There was a little dissatisfaction with the old creamery. Who ever saw an institution of any kind that could be successfully carried on any great length of time to the satisfaction of all men? It was nothing serious and would soon have passed away, had it not been for the fact that on the spur of the moment somebody thought of starting a new creamery in opposition to the old one.

Always any such proposition will take. The spark kindled spreads fast. It was so here, and in a little while the project grew to proportions great enough to warrant a company of outsiders to step in and make a proposition. Farmers as a rule are easily caught by a smooth talker who comes to them at just the right time, as proved to be the case with our neighborhood. The result was that the fellows not only worked up more and more sentiment against the old creamery, but they saddled upon the men who were willing to go into the new one a terrible big expense for building and



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And The Others

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If you want the BEST, that will save its cost over any of the others every year and last five or ten times as long, you can but choose the DE LAVAL. If for any reason you want something different, shut your eyes, buy the cheapest, and get your own separator experience quickest.

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- The U. S. defeated all other separators at Seattle on these five essential points and
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LIGHT-RUNNING SILBERZAHN

is guaranteed to do more and better work with less power than other ensilage cutters. Order one

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nothing down. If it doesn't do perfect work after a fair trial, return it at our expense. Write for catalog and details of offer.



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POULTRY

This department is edited by a competent poultryman, who will be pleased to answer questions concerning diseases, poultry management, etc., when they can be answered through the department. Questions will not, however, as a rule, be answered by mail, and stamps need not, therefore, be inclosed with inquiries. Address all letters relating to poultry topics to this office.

TUBERCULOSIS IN POULTRY.

To the Editor of The Homestead:

Of the queries sent to this paper during the past months, quite a number describe conditions pointing strongly toward tuberculosis. If such a disease is really gaining ground in our flocks, it is time for some special knowledge which will enable us to detect the disease, and take preventive measures. Doubtless many of the so-called "mysterious" deaths in the poultry yard might be traced to this disease.

While the ravages of tuberculosis are as old as history itself, its cause was, not understood until about twenty-five years ago. Perhaps there is no disease upon which scientific investigation has shed such light as upon this dreaded malady. It was found to be dependent upon minute organisms, or germs, called bacilli, microscopic in size. Yet among the many disease germs, this bacillus is one of the largest and most common. It is a tiny, rod-shaped germ, and it would require not less than 3,000 placed end to end to make one inch. These germs are carried from a diseased body to one that is not diseased, and there they set up changes that result in tuberculosis.

In human beings, tuberculosis most frequently attacks the lungs. Yet this is only one of its many forms. It may affect any part of the body. It is the same with poultry. Tuberculosis attacks every kind of fowl, not excepting the wild birds. In poultry the most common point of attack is the bowels, the liver, and the spleen. There is an erroneous impression that tuberculosis may arise from cold, or from a weakened condition caused by improper food. This is a mistake. The disease cannot attack either human beings or animals unless some of these tiny bacilli have in some way effected an entrance. Without these germs there can be no tuberculosis. They make their way into the body in various manners; sometimes they are inhaled through the air passages in flying dust; sometimes they are swallowed in food or drink, sometimes they are introduced through a scratch or wound on the skin. Having once effected a lodgment, they at once proceed to business and increase at a prodigious rate.

It is sometimes a great mystery how a flock of birds previously in the best of health, and carefully kept from contact with outside fowls, should become possessed of tubercular bacilli. It must be understood that direct contact

with a diseased specimen is not necessary. One writer affirms that the droppings of a wild bird that has contracted the malady may be the means of carrying the contagion, or even by swallowing an insect that has been contaminated by the discharge of a sick bird, even at a considerable distance. However difficult it may be to find a plausible explanation for the development of tuberculosis in any particular case, it may be regarded as certain that in some way the bacilli of the disease have been introduced.

If the disease, once seated, attacks the bones and joints, it causes swelling and lameness. If it is in the skin, there will be ulcers, and in some cases sores that discharge purulent matter. If the digestive organs are the point of attack, there will be diarrhea and the discharge of undigested food. So we see that the signs of tuberculosis vary according to the location of the malady.

Perhaps the best summing up of symptoms where tuberculosis attacks the digestive system of fowls, is the following, given by a well-informed poultryman and physician:

The first thing to be noticed about a bird that is sick in this way is its diminished activity. It moves about more slowly and with less energy than usual, and if you pick the bird up you will notice probably a loss in weight and a falling off in flesh. Here we have the condition that is called "going light." As the disease progresses, the emaciation advances rapidly, there is diarrhea, the bird becomes listless, sluggish and finally stupid, and death takes place from exhaustion. Two noticeable features of the disease have yet to be mentioned. One is the persistent thirst which results from the fever that always accompanies tuberculosis of the internal organs, and the other is the desire for food which sometimes continues up to the last. Often when the sick bird is too dull to seek for nourishment it will eat if food is set before it. When you meet with this sequence of symptoms you may be pretty sure about the nature of the ailment that you have to deal with, and yet there is no one of them alone that will unmistakably point out the disease. It is the general picture that they present which must guide us in deciding in a doubtful case. After death an examination of the abdomen usually shows unmistakably what the cause of the fatal ending has been. Deposits may be found in the intestines; sometimes there are ulcerations. There are deposits in the liver and spleen, varying in size from that of a pin's head to some as large as a walnut; whitish in color; sometimes hard and sometimes soft and cheesy. Sometimes when the abdomen is opened a considerable amount of yellowish fluid runs out and the bowels and other organs are found matted together.

Without the help of the microscope it would be impossible to positively diagnose tuberculosis until death gives the opportunity for a post-mortem examination. The diarrhea that accompanies this disease has in it great numbers of the bacilli, and with the microscope it is not difficult for an expert to determine whether the disease is tuberculosis or not. But few are so situated that they can have the service of a microscopist, and since it is the early recognition of this disease that counts, it should be an unvarying rule to isolate every bird that is ailing, keeping it under close observation. As any disease advances, it tells its story more plainly. When it seems quite certain that a bird has tuberculosis, it should be killed at once, and its body cremated.

In occasional instances, tuberculosis seems to sweep through a flock with destroying vengeance. This is the time for the most vigorous measures. Separate the sick from the well, and put the unaffected birds on new ground and in fresh quarters. The sick must be immediately put out of the way, and the premises most thoroughly whitewashed and disinfected.

Prevention must be the keyword. If every poultry keeper would watch with unceasing vigilance for the beginnings of tuberculosis, it would be soon well nigh stamped out. The stock should be kept well and vigor-

PROTECT YOUR CATTLE FROM BLACKLEG

Take No Chances.

Blacklegoids

are Simplest, Safest and Surest Preventive.

No Dose to Measure.
No Liquid to Spill.
No String to Rot.

FOR SALE BY ALL DRUGGISTS.
WRITE FOR FREE CIRCULARS.
PARKE, DAVIS & COMPANY
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PLYMOUTH ROCKS. 219-EGG STRAIN BARRED P. ROCKS

NOW is the time to get your next year's breeders cheap as I must have the room for young stock. Have some fine young birds that will do you good.
W. A. HARTMAN, Box R 242, Winterset, Iowa.

BUFF ROCK EGGS
Half price after June 1st; 75c. for 15; \$2.50 for 50; \$5 for 100. L. L. WOODS, GRINNELL, IOWA.

B. P. ROCK EGGS 26, \$1; 100, \$3. A few good cockerels for sale. Address ROBERT HUNT, EARLVILLE, IOWA.

EGGS From White P. Rocks, Fishel strain; \$1 per 15; \$1.50 per 30; \$4 per 100. Hens, \$1 each. Mrs. E. C. Turner, Route 1, Griswold, Ia.

PURE bred W. P. Rock eggs for sale from scored birds. Special price, \$1 per 13 eggs. Also a few fine chicks. White Rock Poultry Farm, Earlville, Ia.

**RHODE ISLAND REDS.
CLOSING-OUT SALE**
OF S. C. Rhode Island Reds at summer prices, to make room for young stock. Reduction on eggs. Free catalog of valuable information. Winners at State Fair, 1909, and Omaha, 1910, only places shown. Both combs. Mrs. F. W. McIntyre, R. 5, Red Oak, Ia.

R. C. R. I. Reds Cherry Red strain. Eggs at summer prices from prize-winning utility stock. Harry C. Blake, Maquoketa, Ia.

EGGS at reduced prices. R. C. and S. C. R. I. Reds. Prices, one sitting, 75c; 50, \$2.25; 100, \$4; excellent layers. Mrs. T. A. Gough, Bristow, Iowa.

S. C. R. I. Reds Reduction on eggs. A few yearling hens at \$1. Also have a few cocks. Mrs. Sophia Rader, Laurel, Iowa.

S. C. R. I. RED EGGS
75c per 15; \$4 per 100. I. C. Welch, Bedford, Iowa.

DUCKS.
Mammoth Pekin duck eggs from good, large-sized ducks; drakes 10 lbs.; \$1 per 13; \$6 per 100. John M. Hall, Williams, Iowa.

INDIAN RUNNER DUCK EGGS—13 for \$1. Hatched as late as August. Will lay in February. Address F. L. Reinhard & Son, Ottumwa, Ia.

**MINORCAS.
S. C. BLACK MINORCAS**
EXCLUSIVELY. Northrup strain. Hens averaged 15 dozen eggs each. Eggs for sale at the following prices: \$1 for 15 eggs; \$1.75 for 30 eggs; \$2.50 for 45 eggs; \$5 for 100 eggs. Satisfaction guaranteed. Nick Loewen, Lawler Poultry Yards, Lawler, Ia.

**BRAHMAS.
Ottumwa** POULTRY YARDS; Light Brahmas won 7 premiums at the state fair. Stock for sale, old and young. R. T. Cameron, Ottumwa, Ia.

BABY CHICKS.
S. C. W. Leghorn baby chicks, \$12.50 per 100; \$7 per 50. Guaranteed good, live, strong chicks at express office. Highland Poultry Farm, Hazleton, Ia.

MISCELLANEOUS.
S. C. R. I. Reds. Eggs from two selected pens, mated for exhibition quality, and heavy winter layers. Eggs from flock on free range. Have some extra quality W. Orpingtons and S. C. W. Leghorns eggs. Mating list free. Dr. F. D. Miner, Hazleton, Ia.

EGGS S. C. R. I. Reds, S. C. W. Leghorns; matings made, records kept for greatest utility results and highest fancy attainment. Also baby chicks. Address M. E. Birchard, Hazleton, Iowa.

S. C. B. LEGHORN EGGS
\$3.50 per 100; Lt. Brahma eggs, 75c. for 15; B. P. Rock, 75c. for 15. J. M. Craig, Route 1, Danbury, Iowa.

READ THIS—Our annual sale list of breeders is now ready for mailing. All birds will go at ½ price. Barred Rocks, S. C. R. I. Reds and Indian Runner ducks. F. L. Reinhard & Son, Ottumwa, Ia.

WYCKOFF strain S. C. W. Leghorns; scoring to 95; special matings, \$1.50, 15 eggs; incubator, \$5, 100. Also Fishel strain W. Wyandotte eggs, \$1.50 per 15. Sunny Slope Poultry Yards, Oskaloosa, Ia.

EGGS—All varieties; Leghorns, R. I. R., Orp's, Wyandottes, Minorcas, Rocks, ducks, geese, turkeys. Cat. free. Wm. Koell & Co., Box M, Hampton, Ia.

White Wyandotte eggs for hatching; 75c. sitting or \$4 per 100. Mrs. J. E. Le Gassick, R. 2, Earlville, Ia.

SILVER Laced Wyandottes; eggs \$1.50 per 15; \$5 per 100; Pekin ducks, \$1 per 11. Mrs. F. R. McLaughlin, Manning, Ia.

The Handy AUTOMATIC STOCK FOUNTAIN

PURE WATER You will not get the best results unless your stock has clean water. Buy an ever-ready, never-leaking **HANDY FOUNTAIN**. It will not corrode or rust, attaches easily to tank, barrel or pipe and is superior to all others in its valve—the most important place. We guarantee satisfaction. **NOVELTY IRON WORKS** STERLING, ILLINOIS.



10 CENTS PER POUND

PAID—Note the price—for OLD RUBBER BOOTS AND SHOES. All kinds of old RUBBER BOUGHT. AUTO-TIRES, PNEUMATIC TIRES, SOLID TIRES, GARDEN HOSE; in fact ALL KINDS of old rubber. We will make PROMPT RETURNS. Reference—Bradstreet's Mercantile Agency. Write us. **FT. WAYNE SHEEPSKIN & WOOL CO., BOX 345, FORT WAYNE, IND.**

300 Goats

Wethers, Does and Bucks.

Wyatt Carr, Collins, Iowa.



ous; allow no new bird to be introduced without a previous strict quarantine; isolate every sick bird at the first symptom of illness; and there is every reasonable hope that birds thus cared for will escape the scourge.
Mrs. S. B. Titterington.

POINTERS.

—The advertisement of Single Comb Rhode Island Reds, of Mr. Harris E. Blake, of Maquoketa, Iowa, will be found on this page. Mr. Blake is offering eggs for sale at summer prices.

—Poultry breeders will be interested in the announcement of Messrs. F. L. Reinhard & Son, of Ottumwa, Iowa, as it appears on this page, stating that their annual sale list of breeders is now ready for mailing. This list gives descriptions and quotes half prices on Barred Plymouth Rocks, Single Comb Rhode Island Reds and Indian Runner ducks.

Live Stock Sales

Bellows Bros.' Cattle Were Appreciated.

The Bellows Bros. sale of Short-horn cattle, held at Parkdale Farm, Maryville, Mo., on June 14th, was an unqualified success. Larger crowds have assembled at Parkdale Farm, but none more appreciative of the good work these gentlemen are doing to produce better cattle has ever been seen at a Bellows sale. The day was perfect, the arrangements, including automobile service to and from town, were perfect. Better than all else the cattle, including the breeding herds, were the kind that please the more discriminating cattle men. The forenoon was devoted to inspection of the sale cattle and the breeding herds, the noon hour to visiting and enjoying the hospitality of the ladies who served luncheon beneath the spreading trees that adorn the lawn at Parkdale Farm. Shortly after one o'clock, when all had gathered in the tent, expressions of satisfaction were heard on every side. The fifty head of sale cattle were in fine condition. They had been thoroughly gone over by those bent on securing the blood of the sires, Good Choice, Best of Goods and Missie's Sultan, that head Messrs. Bellows Bros.' herds, and as soon as Colonel Woods had finished his short, but appropriate talk, the friendly rivalry for future ownership of the cattle was on. The top of the sale was \$1,500, paid by Messrs. R. C. Firme, of Hastings, Neb., and A. A. Stone, of Hansen, Neb., for Lot 2, Superb Goods, the rich roan bull by Good Choice, said to be the best bull ever sold by Messrs. Bellows Bros. The white September, 1909, calf, Merry Goods, listed as Lot 6, and got by Good Choice Lad, had many warm supporters as being the best bull of the lot, and Messrs. Cahill Bros., of Rockford, Iowa, who were the runners up on Superb Goods, secured this grand young bull at \$1,060. His magnificent head, fine covering over back and loin and general character are such that he should prove a valuable herd bull. Mr. White, of Emerson, Iowa, would like to have had him for his show herd. Standard Goods, listed as Lot 1, fell to Messrs. Purdy Bros., of Harris, Mo., at \$850. He was got by Best of Goods, and his character, even balance, smoothness and scale indicate a great breeding bull. He should make a valuable herd bull in the Purdy Bros. herd. Mr. A. O. Stanley, of Sheridan, Mo., secured a valuable young bull in Hampton's Crown, an eleven-months-old son of Hampton's Successor. The purchase price was \$435. Royal Goods, a roan yearling by Best of Goods, went to Mr. S. Fletcher, of Matteson, N. D., at \$360. Mr. Jno. Kennedy, of Eagle Hill, Mo., secured Lot 7, Secret Choice, at \$305. Choice Lady, a white senior yearling show heifer got by a son of Good Choice and of the same family as the white bull, Merry Goods, went to Mr. E. A. Hess, of Council Bluffs, Iowa, at \$675, the top price paid for a female. Mr. Hess was a liberal bidder on the better females. Messrs. Cahill Bros. were the heaviest buyers of females, securing among many choice things the Brawith Bud cow, Lavender Bud, with a choice heifer calf at foot. Mr. Philip Funk, of Greenfield, Iowa, took the Lavender cow, Sweet Lavender, with a coking roan bull calf at foot by Good Choice, at \$515. Mr. C. S. Nevius, of Chiles, Kan., took five head, among the number being a pair of Scotch cows. Mr. Wm. Children, of Council Bluffs, Iowa, was a good buyer, securing among others the secret heifer, Scotch Secret by Choice Goods, at \$340. Mr. Henry Kuper, of Humboldt, Neb., was a good buyer, securing three head, among which was the Roan Beauty heifer, Choice Beauty 2d, at \$300. Other buyers were K. G. Giststedt, Lancaster, Kan.; C. M. Clark, New Market, Iowa; H. S. Wells, Maryville; H. E. Miller, Tarkio; J. B. Williams, Filmore; W. J. Reve, Blanchard, Iowa; F. C. Fisher, Rea; G. H. White, Emerson, Iowa; O. R. Hyde, Hastings, Neb.; J. E. Sloss, North Bend, Neb.; Geo. Prettyman, Fairfax; Ino. Richardson, Barnard; Ira Kelley, Maryville. Forty-one females sold for \$11,340, average \$276.60; eleven bulls sold for \$5,310, average \$482.72; fifty-two head sold for \$16,650, average \$320.20. Colonel Woods sold the cattle, with Colonels Callahan and Hosmer assisting in the ring.

The Pierce-Evans Angus Sale.

One of the big sale events of the season was the offering of Aberdeen Angus cattle at Woodlawn Farm, Creston, Ill., June 8th, by Messrs. Stanley R. Pierce and John D. Evans. The attendance was not as large as in former years, due no doubt to the fact that the farmers of the corn belt were too busy in the field. Several hundred well-known breeders were at the ring-side, however; Iowa, as usual, largely in the lead, and ninety-six head were sold for \$21,975, an average of \$228. There were no extreme prices paid, but valued ruled at a healthy average all through the sale, denoting the strong demand for good Angus cattle, and particularly for the sort that are bred by Messrs. Pierce and Evans. At the opening of the sale Auctioneer Igo called on Prof. H. G. Mumford, of the Illinois Agricultural College, who made a brief but interesting talk on the beef cattle situation as it exists today, admonishing those present that judicious buying of breeding cattle at this time could not fail to result remuneratively to the purchasers. Professor Mumford backed up his talk by his actions, as during the sale he made purchases for

the live stock department of the Illinois institution. One of the good features of the sale was the number of new names that appeared in the list of buyers, showing a widening demand for good cattle. The top of the sale was \$800, paid by Mr. C. J. Martin, of Churdan, Iowa, for the Blackbird cow, Blackbird Judy by Blach Monarch of Emerson, with a cow calf at foot. Blackcap 38th by Woodlawn Black Ito went to Mr. H. L. Cantine, Quimby, Iowa, at \$655, and Messrs. J. W. Jones & Son, LaRue, Ohio, who were among the most liberal buyers, took the Trojan Erica cow, Eolian, by the champion, Prince Ito, with a heifer calf at foot, at \$545. The top for bulls was \$450, paid by Mr. George Buckhardt, Steward, Ill., for Elkaton, a Trojan Erica son of Prince Ito. The average on eighty-eight females was \$235, on eight bulls \$165, and on the entire sale of ninety-six head \$228, making it one of the most successful sales of the season. The list of buyers included L. H. Lamar, Storm Lake, Iowa; M. H. Donohoe, Holbrook, Iowa; James Williams, Marcus, Iowa; John Cash, Parnell, Iowa; Wm. Cash, Williamsburg, Iowa; George W. Felton, Knoxville, Ill.; J. W. Jones & Son, LaRue, Ohio; O. V. Battles, Maquoketa, Iowa; Escher & Ryan, Irwin, Iowa; John S. Goodwin, Naperville; C. J. Martin, Churdan, Iowa; White Bros., Perry, Iowa; W. W. Andrews, Maryville, Mo.; George Burkhardt, Steward; Silas Palmer, Maple Park; University of Illinois, Urbana; C. S. Firkins, Rollo; Chas. Coffman, Polo; Plank & Carpenter, DeKalb; Lew Kerr, Newtown, Ind.; Lewis Vesta, Creston; W. H. Thorp & Son, Clinton; W. H. Roberts, Waterman; Christian-Lang Co., York, Neb.; E. L. Hayes, Kings; J. J. Cromien, Kewanee; J. H. Osker & Son, Polo. The sale was conducted in a highly satisfactory manner and the auctioneers were Colonels Igo, Reppert, Gardner, Judy, Binnie and Ocker.

Beaver Creek Short-horns.

Mr. N. A. Lind, of Rolfe, Iowa, proprietor of the Beaver Creek Short-horns, held his twelfth annual sale on his farm, three miles north of Rolfe, on Thursday, June 16th. He had buyers from Ohio, Illinois, Minnesota, South Dakota, Nebraska and Missouri, and the entire offering of sixty head was taken up. The forty-seven females sold for \$9,390, or an average of \$190.80. Thirteen young bulls brought \$3,115, or \$239.60 average. The total of sixty head brought \$12,505, or an average of \$208.40. Forty-seven head of this offering were bred and raised by Mr. Lind on his great Beaver Creek breeding farm, and considering that there were thirty-six of the offering only two years old and under, the average was very satisfactory. Mr. Ed. Morgan, of Kanaranz, Minn., was one of the most conspicuous buyers, getting five good ones. He paid \$535 for Victoria Myrtle. She is the daughter of Imp. Fancy's Pride and out of Imp. Victoria Mary. He secured Lady Ury, the four-year-old cow got by Pride of Scotland; her dam, Imp. Winsome Maid, paying \$525 for her. He also secured Missie of Pine Grove 7th. She is the daughter of Marquis of Zenda, a Marr-bred bull. Her dam was Imp. Missie and it would appear that no Short-horn cow was too good for Mr. Morgan. Mr. John Lester, of Conrad, Iowa, landed the highest-priced bull in the sale, Choice Sultan 2d, at \$475. The day was ideal for the sale; the conveyance, by carriages and automobiles, was highly pleasing to the crowd, and Mrs. Lind's bountiful dinner was eagerly partaken of by the vast attendance. Colonel Woods was in the best of fettle and the good quality of the offering of cattle made everybody happy and agreeable, and the bidding was spirited from start to finish. Mr. Lind was well satisfied and he wants to thank one and all through The Homestead for their patronage. Below is a list of buyers: M. L. Anderson, Melbourne; Ed Morgan, Kanaranz, Minn.; H. F. Brown, Minneapolis, Minn.; F. H. Ehlers, Tama; Bel-lows Bros., Maryville, Mo.; S. H. Ehlers, Tama; J. W. Kline, Pilot Mound; E. E. Snider, Ocheyedan; E. W. Kline, Pilot Mound; Geo. Savers, McHenry, Ill.; E. R. Silliman, Colo.; J. T. Judge, Colo.; G. H. George, Monticello; Tom Stanton, Aurora, Ill.; J. L. Reese, New Providence; E. W. Harmon, Rhodes; Carpenter & Ross, Mansfield, Ohio; F. W. Harding, Waukesha, Wis.; T. A. Davenport, Belmont; H. D. Parsons, Newton; E. C. Cameron, Clarksville, Mo.; H. F. Brown, Minneapolis, Minn.; John Rasmess, Lake City; Geo. Knott; M. P. Berry, Carthage, Ill.; J. T. R. Nash, Mindon, Neb.; Ed Crodgiss, Clarence; John McConnell, Garden Plain, Ill.; John A. Molestad, Michleville; John Lester, Conrad; L. M. Michelson, Hardy; O. J. Hanson, Thayer; C. A. Cook, Allamakee; D. F. Brod, West Bend; M. T. Adcock, Galesburg, Ill.

The conditions existing in the vicinity of Liscomb, Iowa, made the public sale of Short-horn cattle by Messrs. Jesse Binford & Sons, which was held June 21st, quite unfavorable. Indications are that the pasturage will be rather short. This fact seemed to be appreciated in an undue degree by the farmers in the Binford neighborhood, and as a result the range of prices of the cattle disposed of was quite low. The entire offering, however, was disposed of. Mr. W. P. Wells, of Washington, Iowa, was the one man in the entire attendance who appreciated the fact of the splendid bargains placed before them. He showed his appreciation by buying twenty head of good cows and heifers. Other Iowa buyers in the sale were: John Lister, Conrad; C. E. Arney, Albion; H. W. Moninger, Moninger; Charles L. Santman, Dysart; W. H. Golly, Zea; Thomas Railey,

LANDS AND HOMES FOR SALE

BUY A HOME IN SUNNY SOUTH DAKOTA

We have choice bargains in farms and ranches. Write us for further information.

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IN Dawson County; near railroads; plenty of rainfall; good water 12 to 30 feet; wheat yields 30 to 40 bu. flax 20 bu. Every man who bought Dawson County land last year made money; sure to advance more. Send for our list now; \$15 to \$25 per acre. MILLER & JORDEN, GLENDIVE, MONTANA.

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IN THE FAMOUS JUDITH BASIN

COME to Lewistown, Montana, where wheat is KING; where the straw is rich, golden color and stands up straight until the cutting; where the grain yields 30 to 60 bushels per acre every year. We have 16 inches of black soil, with a yellow clay subsoil. PLENTY of rainfall during the crop-growing season to insure big yields every year. Come where there is rich, productive soil, pure mountain water, with a healthy, pleasant climate. Absolutely the richest wheat lands in the Northwest. Government statistics prove it. Investigate and you must believe. May I show you? Homesteads and patented lands. Land values rapidly increasing. COME NOW.

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WE own and control over fifty thousand acres of choice farm lands, located in the most fertile and beautiful counties, namely: Craig, Mayes, Nowata and Rogers, the "Garden Spot" of the new state, that will produce successfully corn, wheat, oats, timothy, clover and alfalfa. Low prices. Easy payments. Perfect titles. Greatest opportunity ever offered the farmer of small means to procure a home in the rain and corn belt. Agents wanted. Write

ALLEN, HART & COMPANY, Suite 308 Commerce Bldg., Kansas City, Mo.

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I HAVE for sale at owners' prices over 300 choice, improved farms in Lyon and Coffey counties, in the beautiful and fertile

NEOSHO RIVER VALLEY Write for new illustrated descriptive circular. Mention The Homestead when writing. Address ED. F. MILNER, HARTFORD, KANSAS.

BUY A FARM IN THE CORN AND CLOVER BELT!

WHERE your investment is sure. No matter whether the season is wet or dry, crops have never failed. Cottonwood County, Minnesota, is the place. Write for list of farms. Address D. U. WELD - WINDOM, MINNESOTA.

TWIN FALLS (IDAHO) Irrigated orchard and agricultural lands for sale in large and small tracts on time payments; peerless opportunities for homeseekers in most fertile acres in United States. Values continuously advancing and money making opportunities exceptional for those who invest now. Particulars and prospectus on application. Address TWIN FALLS NURSERY AND ORCHARD CO., BOX 1278, TWIN FALLS, IDAHO.

HOMESEEKERS

SEND for a copy of the South Eastern Kansas Homeseeker, the best land journal published; it's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address The Allen Co. Investment Co., Longton, Kan.

NORTH MISSOURI FARM

ON account of old age, I will sell my 320-acre farm, well improved, at attractive price; easy terms. Address J. W. McBeath, R. 2, Gallatin, Mo.

Clemens; H. J. Keifer, Albion; H. J. Hotot, Beaman; L. C. Price, Albion.

Mr. J. C. Thompson, of Jamaica, Iowa, held a public sale of Red Polled cattle on June 22d. Sixty-six head were disposed of. The range of prices was quite low. The herd bull, Slogan, sold to Mr. Adolph Arrp, of Eldridge, Iowa, for \$102.50. Messrs. Daugh & Son, of Stuart, Iowa, paid \$127.50, the top price of the sale, for Nailer Boy. Mr. L. E. Armstrong, of Fort Dodge, paid \$100 for a young bull. There was a better demand for bulls than for females.

Smokers like Lewis' Single Binder cigar for its rich, mellow quality.

A Concrete Mixer for the Farm.

One of the principal difficulties attending the use of concrete on the farm has been that of securing a proper mixing of the ingredients. This obstacle has been removed by the invention of the New State concrete mixer advertised on page 6. This is a simple, durable and light machine with great capacity and one which is sold at a price within the reach of every farmer. Full descriptions and special prices to the first buyer in each vicinity may be had by writing to the Sterling Pattern Works, 10 Mill St., Sterling, Ill.

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In St. Louis and Carlton Counties MINNESOTA

NEAR fast growing cities of DULUTH and SUPERIOR. Splendid markets. Eighteen railroads. Soil fertile and well adapted to general farming, dairying and raising of garden truck. Price, \$8 to \$16 an acre. Easy terms. Lands are owned by this company, free of all incumbrances, and no reservations. Write for full particulars and information.

Boston & Duluth Farm Land Co. No. 18 5th Ave. West, Duluth, Minn.

FREE LAND

AND FREE WATER RIGHTS IN NORTHWESTERN COLORADO

Write to-day for map and booklet telling how to get 160 or 320 acres of government land. Deep, Rich Soil in River Valley. Land and irrigation water absolutely free. Railroad now being built through a million acres of free land. Fine crops of grain and vegetables; good local market. Best grass country in the west. We have no land and no water rights to sell. They are free. W. F. JONES, Gen. Traf. Mgr., D. N. W. & P. Ry. Room 704 Majestic Bldg., Denver, Colo.

LET ME TELL YOU

ABOUT a 320-acre farm lying 12 miles north-east of Carthage, on turnpike road; well improved; all in cultivation except 20 acres of pasture, with running water through same. This can be bought for \$75 per acre; worth \$125 if taken soon. For detailed description, address

J. E. HALL, Carthage, Missouri.

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THE FAMOUS ARKANSAS VALLEY OF COLORADO 40,000 acres of the finest land in America. Grows all kinds of crops. Good Railroads. Up-to-date towns. Sugar factory and alfalfa meal mills. Good Markets. Climate best in the world. Irrigation system ranks with the best. Our price \$30 to \$35 per acre, with perpetual water right. Easy terms, no interest. Your fare paid if you buy 80 acres or up. Write for illustrated booklet, map.

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We Mean It!

WE will have the banker guarantee your fare both ways if you don't find things just as represented in our descriptions of beautiful southeast Minnesota. Do you want a square deal in an improved farm in a first-class diversified farming country close to the north line of Iowa? If so, write us at once.

J. L. Griswold, Dodge Center, Minn.

Improved Kansas Farms

I OWN the following improved farms, all near I Severy, Kan., that I will sell on a payment down and the balance on long time at low rate of interest. 80 acres at \$45 per acre, 160 acres at \$35 per acre and 320 acres at \$30 per acre. I am not a real estate dealer; simply own the land and want to sell it. If you are interested write or call and see the land. M. J. BIDWELL, Severy, Kansas.

REFeree's SALE The whole or part of a No. 1 stock and grain farm of 370 acres, located 3 1/2 miles southwest of Salem, Henry County, Iowa, known as the James Welpton farm; place is well watered and pasture seeded to blue grass. Scaled bids received until August 1, 1910. Sale subject to approval of court. Address W. S. JUDY, referee, Mt. Pleasant, Iowa.

LAND ADVERTISING

FOR additional advertisements of farms, farm lands, etc., see department of CLASSIFIED ADVERTISING elsewhere in this paper. It will pay you, if looking for bargains, to look over the advertisements to be found there.

Murray County, Minnesota

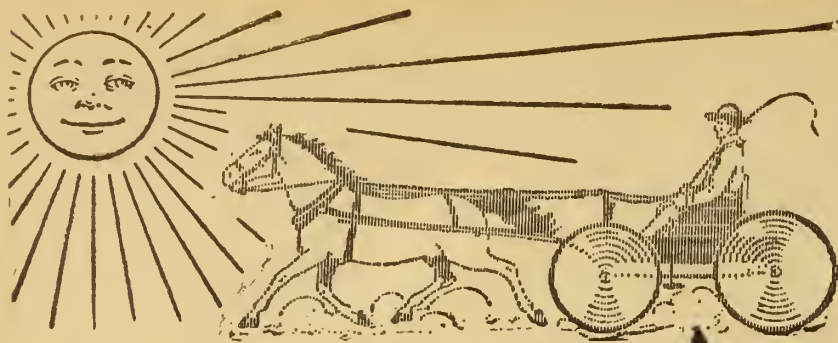
I HAVE a choice list of farms for sale in southwest Minnesota. Corn and clover equal to Iowa and the only difference in the land is the price. Write me and get a square deal and a good farm. Address BERT I. WELD, SLAYTON, MINNESOTA.

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A SNAP in a good one-half section partially improved; terms to suit. Price, \$25 per acre. HAGLER LAND CO., PRESHO, S. DAK.

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By the time you reach town and light you'll be hot and tired and your throat dry with dust and thirst. Hunt up a soda fountain and treat yourself to
A Glass or a Bottle of

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Just as cooling as the bottom step in the spring house. You'll find it relieves fatigue too, and washes away all the dust and thirst as nothing else will. It touches the spot.

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"The Truth About Coca-Cola" tells all about Coca-Cola—what it is and why it is so delicious, wholesome and beneficial. It gives analyses made by scientists and chemists from coast to coast, proving its purity and wholesomeness. Your name and address on a postal will bring you this interesting booklet.

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Whenever
you see an
Arrow think
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LETTERS intended for publication should be accompanied by the name and address of the writer, not necessarily for publication, but as a matter of good faith. All communications intended for this department should be addressed to Postoffice Box 639, Aurora, Missouri.

WITH THE EDITOR.

The man who toils in the field is apt to think he has the worst of it at noonday, but the woman who grills over a cook stove preparing the dinner is apt to think hers is the more uncomfortable task. Both should endeavor to make things as comfortable as possible for each other and the family. The stove on which the housewife prepares the dinner should be an oil or a gasoline. If this is not possible, then the wood or coal stove should be in a summer cook house which is well ventilated and there should be an abundant supply of small-sized fuel for use when long-time heat is not required. These things will do considerable toward lightening the cook's burdens by making the middle of the day's cooking less oppressive. She, on her part, should plan for a cool place in which to spread the good man's dinner so that, as he grows weary and hungry and warm towards noon, his thought will turn to the home as a place of refreshing. Light should be shaded and the room, while airy, kept as cool as may be. The table should have a bit of green, if nothing in the way of flowers is available, and the food should be prepared with a view to the season. Also, there should be a hammock under a tree or on the porch or a cot in some cool spot where the good man may stretch for a nap before returning to the field. (If the good wife is wise she will make time to occupy that hammock or that cot a little later in the afternoon.)

We are bound to be warm in warm weather, but we can lessen our discomfort somewhat in the ways just suggested. There are others also.

Food served in summer should not be the same as that used in winter. In summer the housewife should serve less meat and more eggs and vegetables and fruit, less pastry and rich cake and more light puddings and simple cookies. Where the farm boasts an icehouse—as an increasing number of farms do each year—simple frozen dainties should be served frequently, as they refresh the palate and satisfy the appetite at the same time.

The fireless cooker does much to make summer endurable. And any housewife who wants one can have it if she be ingenious and handy enough to make a close-fitting cover for a box if she cannot get a man to do it for her. With this box papered and filled with hay and supplied with a hay pillow, she is ready to start experimenting with rice and beans and stews if she has no one to give her pointers. Scores of women are using the fireless cooker nowadays, not only to cook food, but to can fruit, and they claim they secure entirely satisfactory results.

There is no season of the year when water, water inside and water outside, is so grateful as when the thermometer is hovering in the nineties. Most people drink freely in July and August, but not everyone knows that frequent bathing does much to lessen hot weather discomfort. On the farm, where men work and perspire freely, water outside should be used freely every night. Bathrooms are not yet general in farm homes and frequently it is some little trouble to arrange for water and privacy. It is worth the trouble. Every family may and should have a summer washhouse if it has no bathroom or washroom where things are convenient for daily tubbing or sponging. A bath tub can be purchased or made by the local tinner for a few dollars—a good one of galvanized iron on a wooden base with an outlet for the water costs \$5 or \$6—but the determined do not lack for a bath if they cannot buy one.

HOME AND HOMEMAKING.

HELPS IN IRONING.
Sprinkling the Clothes.—If clothes

are sprinkled with hot water instead of cold, they will dampen much more rapidly. Usually fifteen minutes is sufficient.

For the Ironing-Board.—Tack a pocket on the under side of your ironing-board, in which to keep your ironing-cloths, beeswax or paraffin and so forth.

To Keep the Iron Handle Cool.—In making iron-holders slip a little piece of asbestos between the outside and the filling. This will absolutely prevent burning through the holder, and the holder will last twice as long.

In ironing laces, embroideries and all kinds of braided work, you will find a Turkish towel the best thing yet to iron them on.

Beeswax rubbed on a paper will keep the flats smooth. If they get rough they can be polished by rubbing them over a little salt sprinkled on a paper.

To exterminate bedbugs: With a stiff feather, apply in cracks, crevices, etc., the following mixture:

One pint of wood alcohol, one pint of turpentine, one ounce of corrosive sublimate, one ounce of gum camphor. (It should be labeled "Poison.")

This is odorous, but less expensive than some remedies, and a sure one, if faithfully used. Vigilance and persistence are necessary, no matter what the remedy.

FOR THE COOK.

To Make Beef Tender and Keep it Fresh.—Tough steak is greatly improved by being washed in a rather strong solution of soda and water. Then wring a cheesecloth bag out of vinegar, put the steak in it, and hang in the cellar where there is a current of air. Keep hung for a couple of days, wringing the bag out of vinegar twice a day, and you will find the meat as tender as desired. This is also an excellent way to keep meat fresh in warm weather.

Flavor of Fried Vegetables.—Most of the stews, soups, braised meats and pot roasts are very much improved if the flavoring vegetables which they contain, such as carrots, turnips, onions, celery or green peppers, are fried in a little fat before being cooked with the meat. This need not complicate the preparation of the meat or increase the number of utensils used, for the meat itself is usually seared over in fat and the vegetables can be cooked in the same fat before the browning of the meat.

Simple Remedy.—Next time you burn any milk, take the saucepan off the fire and stand it at once in a bowl of cold water. Put a pinch of salt in the saucepan, give the milk a stir, and you will find that the burnt taste has almost, if not entirely, disappeared.

AMONG OURSELVES.

I wonder how many of our readers read the Sunday-school lessons each week. For some reason our paper did not come last Saturday and I missed the Sunday-school lesson. Do you know what thought has been most helpful to me in connection with the feeding of the multitude? It has been the thought of the mother who prepared the little lad's lunch. I suppose mothers have always been much the same. Perhaps she wanted to go, too; wanted to get out with the boy and go to the lake shore, but was kept at home by her duties, just as you and I have always been. And as I have helped get the children started on little trips and outings—mostly away to work—I have found it a help to believe that the Lord could bless the smallest, most disagreeable task and make the work of my hand the means for blessing a great multitude. And when compelled to save and save, and practice the most rigid economy, I liked to think that He who could feed a multitude by breaking the bread for them, still gathered up the fragments that nothing be lost.

Wherever you find a woman whose attitude toward her duties is that of Mrs. Old Mother, you find one who is in very truth a breaker of bread to her family. Sometimes I think if we but half realized how much of usefulness as well as of happiness depends upon our attitude, we would be more careful to seek after a happy way of looking at things.

Separator letters are coming. We shall have one today and one or two next time. Mrs. A. F., friends:

I think we have the same kind of separator that A. B. C. has, but I wash it twice a day in summer. We don't like to leave it wet over night, as it is liable to rust. We have used it for years, have had milk from eight to ten cows to separate and would not go back to the old way. We take our cream to the creamery twice a week and buy butter from there.

My hope is that if we keep on hear-

DRAKE UNIVERSITY

Drake University is twenty-nine years old, has eleven buildings devoted exclusively to school purposes, employs more than 150 instructors, and has an annual attendance of more than 1,800 students. The University is located in the best suburb of "Beautiful Des Moines," with easy access to every point of educational and religious interest in the city. Library facilities are unexcelled in the West, living expenses are moderate and opportunities for remunerative employment are unusually good. School in session throughout the year.

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Voice, Piano, Organ, Violin, Harmony, Theory and Musical History. Courses for Teachers and Supervisors of Public School Music.

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Ask any wideawake dealer for Genasco. And get the up-to-date fastening—the **Kant-leak Kleet**. Does away with cement and large nails. Look for the trademark and insist on the genuine. Write for Good Roof Guide Book and samples.

THE BARBER ASPHALT PAVING COMPANY
Largest producers of asphalt, and largest manufacturers of ready roofing in the world.
PHILADELPHIA
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"RANGER" BICYCLES

Have imported roller chains, sprockets and pedals; New Departure Coaster Brakes and Hubs; Puncture Proof Tires; highest grade equipment and many advanced features possessed by no other wheels. Guaranteed 5 yrs. direct to you.

FACTORY PRICES are less than others ask for cheap wheels. Other reliable models from \$12 up. A few good second-hand machines \$3 to \$8.

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TIRES Coaster Brake Rear Wheels, lamps, parts, and sundries half usual prices. Rider Agents everywhere are coining money selling our bicycles, tires and sundries. Write today.

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PHOTOGRAPHS, DRAWINGS, SKETCHES, PAINTINGS.

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Our Art Department makes a business of making all kinds of live stock pictures. Our equipment is one of the best in the land. Our Artists are leaders. You must have cuts for your advertising and catalogs. We make engravings. We print everything. Do you want to know? We will show you. Write to

ART DEPARTMENT, Pierce Farm Weeklies, DES MOINES, IOWA.

When writing to advertisers please mention this paper.

ing about the benefits of the separator that members of the circle will become enthused and resolve to investigate and then invest.

Now, about that musty refrigerator again. Mrs. Evans has a word for us:

I saw an inquiry how to clean a refrigerator. Sprinkle chloride of lime all over inside, let stand closed up twenty-four hours, then wash thoroughly and scald and dry. It will have no taint but lime, which will leave in a week or ten days. I cleaned an incubator this spring that had not been used for three years and had stood in the cellar covered with white mold. Now it is as sweet and clean as it ever was in the world. While we are speaking I want to ask, do any of the readers ever spread a flannel cloth over their eggs when they begin to hatch. I do and have no more trouble with the shell or any part of shell or lining drying down to the chicks like I have had lots of times before. It helps to keep them moist and they come out easily.

We are obliged to Mrs. Evans, both for the refrigerator and incubator hint. We shall be glad of a batch of letters along the latter line.

Additional suggestions come with regard to ridding the place of ants. Little Miss Thompson brings one:

Ants may be easily destroyed by putting dry camphor where they can get the strong odor of it, and that does not agree with the ants. The way mama did she powdered the camphor and dusted it about where the ants were, just as you would any insect powder, and in a few hours they were gone.

Another recommends sprinkling cayenne pepper. Let us hear how these remedies work. Mrs. D. B. Disdel wants a recipe for making cheese. Who will help her?

A request for help of another kind comes from M. W.:

I wish someone would give me some advice. Two years ago we bought a farm (forty acres), paying all we had for it and stock and implements to start. We have made expenses and improved the place a good deal, but find we are rather crowded. We have one child, a boy of ten. He has taken possession of the plow this summer, and we wonder if we had not best go farther west, to Idaho or Wyoming, and get more land, but we are afraid we might lose what we have. We have a nice home, but can't get more land here. I am thirty, my husband forty. Are we too old to start anew? From what I have read I understand that free government land with water rights is rather high, but that ten years is allowed to pay for it. Is that right? Would it be safe for us to sell our home here (in Missouri) and try going west? If so, should we sell our team and cows (it would be almost like one of us) and buy there, or should we take them if we move? Could someone tell us how long it would take to drive from Kansas City to northwestern Wyoming with a good team and light wagon?

It is a serious problem that confronts M. W. and her husband. If any members of our circle can give them advice, they may help not only those, but many others similarly situated and considering a similar proposition. Let me say here that no letters can be forwarded, and that nothing of an advertising nature can be inserted Among Ourselves. What we want is bona fide experiences of those who have investigated this matter of lands in the far West.

DRESSMAKING—No. 83.

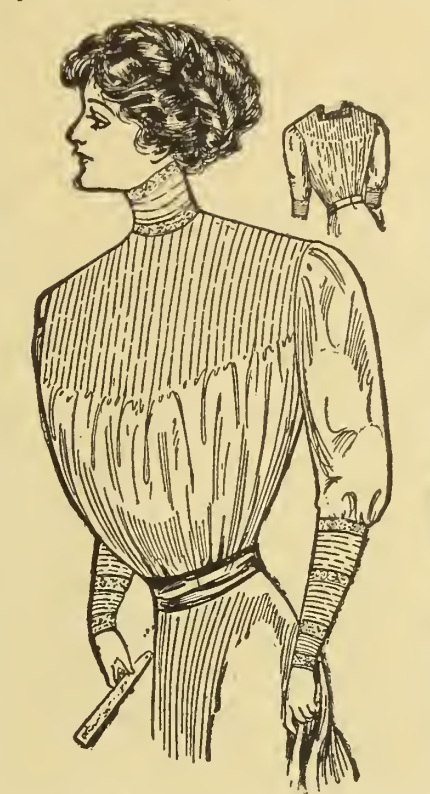
[This department is prepared specially for The Homestead. All inquiries and remittances for patterns described under this heading should be sent direct to The Homestead, Des Moines, Iowa. These patterns sell at ten cents each. Our customers are requested to take special pains to give the number and size of the pattern. In the case of a grown person, bust measure of waist should be given in inches, and for a child give the age. Do not forget to write the name and address plainly so that the order will be filled without mistake.]

The simple tucked blouse is always a dainty and attractive one. This model can be made from any material that is adapted to lingerie treatment and that means the thin silks and light-weight wools, as well as muslins. It can be made with high or square neck and the square neck can be finished with banding or with a frill or in any way to suit the fancy. Mercerized batiste with banding of lace is the material illustrated, but muslins include embroidered and openwork sorts and all kinds of fancy effects, while silks that are adapted to such a model mean foulards, India silk and a variety of silk and cotton mixtures. The blouse suits the odd waist and the gown equally well. The waist is made with front and backs. It is tucked to form a yoke and closed invisibly at the back. The sleeves are in one piece each gathered into cuffs, and these cuffs can be made deeper or shorter according to the length of sleeves desired. When high neck is used a stock collar is attached to the edge.

The quantity of material required for

the medium size is 4 1/4 yards 21 or 24, 2 3/4 yards 32 or 2 1/4 yards 44 inches wide with 3 yards of insertion.

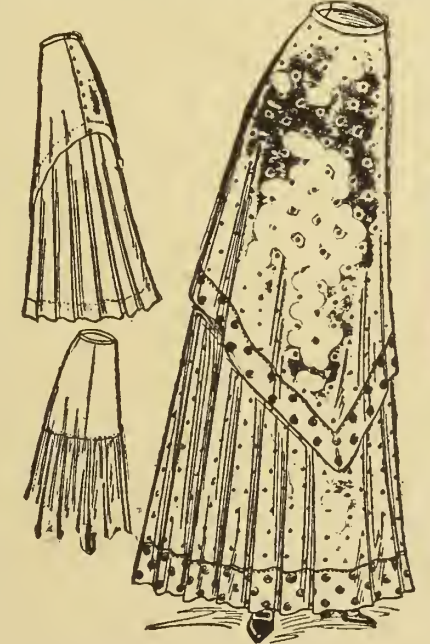
The pattern 6647 is cut in sizes for a 32, 34, 36, 38, 40 and 42 inch bust measure and will be mailed to any address by the Fashion Department of this



[6647 Tucked Blouse, 32 to 42 Bust.]

paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

Every variation of the tunic skirt is fashionable, but this pointed one is peculiarly smart and attractive. It gives becoming lines to the figure and is adapted to a great many materials. Bordered foulard makes this one and the border has been cut off and stitched to the lower edge of the tunic, but any trimming can be used, or the tunic can be of a material to match the blouse, while the flounce is of something in contrast. Foulards with messalines are much used in this way, while wool material is combined with silk and checked and striped with plain and there are, indeed, innumerable attractive effects of the sort that are in vogue. If washable material is used the flounce can be gathered, as that



[6646 Pointed Tunic Skirt, 22 to 30 Waist.]

treatment renders laundering somewhat simpler. Small buttons are much liked this season and the row at the back of the tunic gives a distinctive touch, but it is not obligatory for any preferred finish can be used.

The skirt consists of the five-gored upper portion, flounce and tunic. The flounce is straight and can be either gathered or plaited. The tunic is made in one piece and is fitted by means of darts over the hips.

The quantity of material required for the medium size is 6 1/4 yards of bordered material 31 inches wide with 1 yard 36 for the gored portion; or 8 1/4 yards 24, 7 yards 27, 6 yards 32, 4 3/4 yards 44 inches wide with 1 1/4 yards 27, 1 yard 36 for the gored upper portion; width of skirt at lower edge 4 1/2 yards.

The pattern 6646 is cut in sizes for a 22, 24, 26, 28 and 30 inch waist measure and will be mailed to any address by the Fashion Department of this paper on receipt of ten cents. (If in haste send an additional two-cent stamp for letter postage which insures more prompt delivery. Do not send stamped envelope.)

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WHAT'S the use of wasting good money

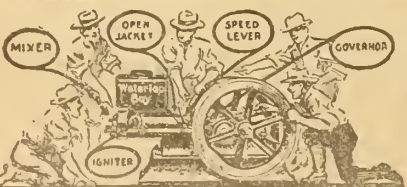
on a windmill outfit for the wind to down when you can just as easily, and for about the same price

buy an outfit which its manufacturers, for a nominal fee, will insure for five years against tornadoes, cyclones, runaway teams—in fact against anything and everything except willful act or willful neglect.

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WATERLOO BOY GASOLINE ENGINES have all the good points that go into any gasoline engine, besides many exclusive, patented features that increase their efficiency and durability; make them marvels of simplicity and wonderfully economical engines to operate. That's why we say the Waterloo Boy is the best engine for farm use. You can buy a Waterloo Boy for less money than you will be asked for engines containing half of the good points we build into our engines. Besides we will send a Waterloo Boy to any responsible farmer and let him try it for thirty days on his farm, doing whatever work he has to do. We will pay the freight both ways and return his money if after a month's use he cannot pick out the good points for himself—if he can't see that it is the one and only engine that will give him complete satisfaction. Better write us today for our catalog and free trial offer.

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PLEASANT FIELDS OF HOLY WRIT

SAVE for my daily range
 Among the pleasant fields of Holy Writ
 I might despair
 Tennyson.

The International Sunday School Lesson

THIRD QUARTER.

Lesson I.—Matthew XIII., 31-33; 44-52.

July 3, 1910

PICTURES OF THE KINGDOM.

It never seemed to be necessary to ring a bell or blow a trumpet to get Jesus an audience. He went into a mountain and the people followed him. He went down to the shore and such a throng pressed upon him that he stepped into a boat and made a pulpit of it, speaking from a placid lake, emblem of the peace he could give those who listened to him. Here he made that strand of pearls out of his seven parables.

If the parables of the sower and tares make a shaded hemisphere, the parables of the hidden treasure and pearl make a hemisphere as light as day. The seven parables make the full orb of truth as it relates to the kingdom of heaven. Close attention to these parables alone is sufficient to convert one into the admirable scribe of whom Jesus spoke and of whom he needs more than ever before in the history of his church.

This kingdom, as Jesus describes it, reverses the common progress of man. He comes in a way to be observed and with that intent. He fares along with trumpets and banners and builds a towering Babel. The kingdom, on the other hand, is inconspicuous in its inception. Nothing much can be expected of it. It is the least of all seeds. But then it is a seed! It is life and that is the glory of it. It will have an unintermitting growth, shooting out many and great branches until it fills the earth, furnishing shelter for myriads and fruit for all. Spite of storm of persecution and drouth of unbelief, it grows, and its boughs are laden with education, benevolence, reform and social service.

Over against the parable which pictures the manifest, external and organized forms of the kingdoms' growth, the perfect teacher now places one which represents the internal, subjective and invisible growth. True enough, the teaching of Jesus was hidden. It seemed to disappear in the unheavened mass. Contemporaneous classic writers are entirely oblivious to it. They do not so much as mention it. Nevertheless, the words he spoke were spirit and life. They could not be quenched by contempt or suppressed by opposition. They had a subtle power. Apparently of small account, they yet worked continuously and powerfully. As Luther says in characteristic phrase, "Even Satan could not separate the dough from the leaven, let him boil or fry, bake or burn it." A brand new element had been unobtrusively dropped into the dying civilization of the old world. As if magnetized, the fragments that were worth while flew to this new and living principle and the world underwent the mystery of a new birth.

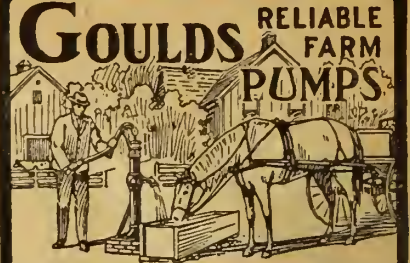
Turning now from the general to the particular, Jesus shows in two lively parables the relation of the individual to the kingdom, how he finds it and makes himself possessor of it. Hiding money in our day is a mark of eccentricity, but in those days of instability of government, when rulers themselves were greedy for the gains of their subjects, secreting of wealth was almost universal. It was fairly reduced to a science, so that the custom was to divide one's fortune into three parts, one for current expense, one for trade and another for hiding in some secret spot. If one did not return from exile, or died without revealing it, the place of deposit could only be found by accident. So Jesus was using an everyday occurrence to show one way that men come into the kingdom. They chance upon it. Yet, so doing, they prize it at its worth and are willing to make the sacrifices indispensable to its possession. They say logically enough, "If we get this one thing which compensates for all, then in this one thing we enjoy everything." Over against this stumbler on the truth, Jesus now puts the intelligent and persistent seeker after it. The abrupt change of figure serves not only to sustain interest, it also gives

a view of the subject from a new angle and unfolds another phase of the matter. In every age there are noble souls whose earnest quest is for that good of all inclusive. Justin Martyr, for example, says that he went through the whole circle of Greek philosophy seeking in vain until he came upon the teachings of Jesus.

The peremptory command for the sacrifice of all is reiterated. The terms in which Jesus emphasizes this seem sometimes fairly cruel, as, for example, when he says, "Let the dead bury their dead," "If a man hate not his father," "Sell all," "Take up your cross." But, after all, these are not arbitrary conditions imposed from without, but are inherently necessary to success. When the lover of money renounces his covetousness, the indolent his ease, the lover of pleasure his delights, each is "selling all" and meeting a moral necessity as immovable as Hercules' Pillar. St. Augustine pictures the reward of it when he says, "How it becomes my very joy to abandon that which I dreaded most to lose, for thou didst cast them from me and enter in their stead, sweeter than all enjoyment."

The parable of the net is the last in the strand and most appropriately so. Others show the growth and victory of the kingdom, objectively and subjectively, in society and in the individual, but the parable of the net shows the consummation of all. Here is revelation of the catholic aim of Jesus. His reference is not to the tiny landing net, but to a great seine with a wide sweep cast into the wide sea. Jesus will gather not a few, but all. The word net in such a connection as this is significant. The fatefulness of a final doom is in it. In the scene as Jesus portrays it, is deliberation and orderliness. Not until filled will the net be drawn. But how laconic Jesus' words, "They sat down," "They gathered," "They cast away." There will be every degree of value in this "take" of Time, but just one standard—likeness to and value to God. This is the governing principle of separation.

No stereotyped compliment was in store for Jesus at the close of his sermon, but a joy which repaid all the toil involved in the sententious utterance of fundamental truth. Turning to his disciples from the multitude, it is as if he had said, "It is a problem how much of this they have understood, but have you understood?" Their unanimous answer is "Yes!" Then he knew that the leaven was in the lump, the mustard seed planted, and he was willing to leave to subtle, but certain processes, that consummation which it had been his meat and drink to secure.



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Oct. 1, R. R. Parrish & Son, Smithshire, Ill.
Oct. 4, John Buckstead, Viborg, S. D.
Oct. 5, W. M. Lessman, Wayne, Neb.
Oct. 6, F. H. Black, Spencer, Iowa.
Oct. 7, Clay County Farm, Spencer, Ia.
Oct. 21, Mundy & Robinson, at Correctionville, Iowa.
Oct. 25, Brenizer & McCullough, Broken Bow, Neb., sale at South Omaha.
Oct. 26, P. D. Fuller, South Omaha, Neb.
Oct. 27, W. A. Hazebrook, Bladen, Neb.
Nov. 19, Harry Tidrick, Wayne, Neb.
Dec. 6, Will C. Meyer, Carroll, Iowa.
Dec. 13, P. H. & H. F. Funke, Greenfield, Iowa.
Dec. 14, Corn Show sale, Omaha, Neb., C. A. Saunders, Manilla, Ia., Mgr.
Dec. 21, Ed Morgan, Luverne, Minn.
Dec. 22, Walpole Bros., Rock Valley, Ia.
Feb. 17, Floyd Gillett, Hampton, Iowa.
May 23, Thos. Johnson, Columbus, Ohio.

Aberdeen Angus Cattle.

Sept. 29, F. J. Nelson, Sheldon, Iowa.
Oct. 4, Silas Igo, Indianola, Iowa.
Oct. 5, White Bros., Perry, Iowa.
Oct. 6, Joseph P. Cox, Boone, Iowa.
Oct. 18, Christian-Lang Co., Omaha, Neb.
Oct. 19, Chas. Escher & Son, Botna, Ia.
Oct. 19, Henry Escher, Harlan, Iowa.
Oct. 20, C. M. Russell, Carroll, Iowa.
Oct. 25, Anderson & Son, Newell, Iowa.
Oct. 26, Lakeside Farm, Storm Lake, Ia.
Nov. 2, W. A. McHenry, Denison, Iowa.

Hereford Cattle.

Oct. 20, Clore and Kinsell, Chariton, Ia.
Oct. 26, Gorman & Cahill and Van Note Bros., Mason City, Iowa.
Nov. 23, Geo. R. Slocum, Sioux City, Ia.

Polled Durham Cattle.

Sept. 28, H. W. Deuker, Kalona, Iowa.
Sept. 29, L. G. Shaver, Mgr., Kalona, Ia.

Red Polled Cattle.

Oct. 27, C. A. Crawford, Anthon, Iowa.

Duroc Jersey Swine.

Aug. 10, D. B. Johnson & Son, Mooresville, Ind.
Aug. 11, M. A. Kraschel, Macon, Ill.
Aug. 16, S. E. Morton, Camden, Ohio.
Oct. 11, Hanks & Bishop, New London, Iowa.
Oct. 12, H. E. Browning, Hersman, Ill.
Oct. 13, Baxter & Comer, Pawnee, Ill.
Oct. 13, Cahill Bros., Rockford, Ia., Gorman & Cahill, Dougherty, Ia., at Cartersville, Ia.
Oct. 14, C. E. Veak, Essex, Iowa.
Oct. 14, M. A. Kraschel, Macon, Ill.
Oct. 18, List Bros., Granville, Iowa.
Oct. 18, A. E. Knight, Whitehall, Ill.
Oct. 19, James Williams, Marcus, Iowa.
Oct. 20, Edmonds, Shade & Co., Kingsley, Iowa.
Oct. 20, J. A. Shade & Co., Kingsley, Ia.
Oct. 21, H. L. Cantine, Quimby, Iowa.
Oct. 22, A. Lentz & Son, Pierson, Iowa.
Oct. 25, W. M. Sells, Indianola, Iowa.
Oct. 25, Thos. Johnson, Columbus, Ohio.
Oct. 26, O. E. Osborn, Weston, Iowa.
Oct. 26, Whitehall Farm, Yellow Spgs., Ohio.
Oct. 28, Sears & Nicolls, Chillicothe, O.
Oct. 28, I. H. Graham, Cherokee, Iowa.
Oct. 29, T. J. Link, Winterset, Iowa.
Nov. 2, F. H. Herring, Iowa City, Ia.
Nov. 3, L. C. McLaughlin, Panora, Ia.
Nov. 4, J. B. Hillegoss, Anderson, Ind.
Jan. 3, John Goddard, Harlan, Iowa.
Jan. 4, C. A. Rasmussen, Harlan, Iowa.
Jan. 5, A. F. Hager, Avoca, Iowa.
Jan. 7, Theo. Schwery, Earlring, Iowa.
Jan. 23, E. W. Davis & Co., Glenwood, Mo.
Jan. 24, J. E. Smith, Victor, Iowa.
Jan. 30, A. Lentz & Son, Pierson, Iowa.
Jan. 30, Walter Bowen, Neola, Iowa.
Jan. 31, Edmonds, Shade & Co., Kingsley, Iowa.
Feb. 1, H. L. Cantine, Quimby, Iowa.
Feb. 2, James Williams, Marcus, Iowa.
Feb. 2, Geo. Ewatts, Audubon, Iowa.
Feb. 3, List Bros., Granville, Iowa.
Feb. 4, I. H. Graham, Cherokee, Iowa.
Feb. 7, Sam Stewart & Sons, Kennard, Neb.
Feb. 10, F. H. Dickey, Emmetsburg, Ia.
Feb. 11, Chas. McCoy, Emmetsburg, Ia.

Poland China Swine.

Sept. 17, Lyman Peck, Ft. Calhoun, Neb.
Sept. 24, Pfander & Sons, Clarinda, Ia.
Sept. 28, H. W. Miller, Peterson, Iowa.
Oct. 5, J. M. Stewart, Ainsworth, Iowa.
Oct. 5, C. S. Price, Carroll, Iowa.
Oct. 6, W. H. Cooper, Hedrick, Iowa.
Oct. 6, L. P. McClarnon, Braddyville, Iowa.
Oct. 7, J. P. Wycoff, Highland, Iowa.
Oct. 12, W. J. Crow, Webb, Iowa.
Oct. 13, E. Gritters, Hull, Iowa.
Oct. 18, W. M. Wright & Son, Allen, Neb.
Oct. 27, Walter Heildwein, Fairview, Kan.
Oct. 27, L. B. Williams, Corning, Iowa.
Oct. 28, Geo. Seffrit, Lucas, Iowa.
Nov. 3, C. W. Phillips, New Sharon, Ia.
Nov. 9, T. J. Meisner, Sabetha, Kan.
Nov. 10, Lee Gross, Nodaway, Mo.
Jan. 18, Julius Stein, Bloomfield, Neb.
Jan. 19, Jas. G. Long, Harlan, Iowa.
Jan. 19, Robert A. Schug, Coleridge, Neb.
Jan. 20, C. R. Adams, Laurel, Neb.
Feb. 2, W. M. Wright & Son, Allen, Neb.
Feb. 7, W. H. Cooper, Hedrick, Iowa.
Feb. 8, W. J. Crow, Webb, Iowa.
Feb. 9, E. Gritters, Hull, Iowa.
Feb. 9, C. G. Polly, Whiting, Iowa.
Feb. 9, George Glynn, Sioux Rapids, Ia.
Feb. 10, James Cockerton, Whiting, Ia.
Feb. 13, E. D. Keasy, Wiota, Iowa.
Feb. 15, Lee Gross, Nodaway, Mo.
Feb. 16, Theo. Martin, Bellevue, Iowa.
Feb. 16, O. N. Remington Estate, Tekamah, Neb.
Feb. 17, D. C. Lonergan, Florence, Neb.
Feb. 17, Floyd Gillett, Hampton, Iowa.
Feb. 18, W. E. Zimmerman, Neola, Iowa.
Feb. 21, Pfander & Sons, Clarinda, Ia.

Berkshire Swine.

Aug. 19, Thos. Stanton, Aurora, Ill.

Shire Horses.

Nov. 1-4 C. W. Hurt, Bloomington, Ill.
Jan. 10-13, C. W. Hurt, Bloomington, Ill.
Feb. 28-Mar. 3, C. W. Hurt, Bloomington, Ill.

DATES FOR LIVE STOCK SALES.

Percheron Horses.

Oct. 26, W. S. Corsa, Whitehall, Ill.
Oct. 27, W. H. Ritter, Colfax, Ill.
Oct. 28, P. A. Bughman, Blandinsville, Ill.
Nov. 1-4 C. W. Hurt, Bloomington, Ill.
Jan. 10-13, C. W. Hurt, Bloomington, Ill.
Feb. 28-Mar. 3, C. W. Hurt, Bloomington, Ill.

Belgian Horses.

Nov. 1-4 C. W. Hurt, Bloomington, Ill.
Jan. 10-13, C. W. Hurt, Bloomington, Ill.
Feb. 28-Mar. 3, C. W. Hurt, Bloomington, Ill.

Mules.

Oct. 19, C. C. Judy, Tallula, Ill.

FIELD MEN.

M. T. White, western Iowa and Nebraska (north of the Platte river). Address 4015 Izard St., Omaha, Neb.
Carlos C. Palmer, eastern half of Iowa and Minnesota. Address Homestead Co., Des Moines, Iowa.
Fred V. Johnson (cattle and horse divisions), Wisconsin, Indiana, Ohio, Michigan and Kentucky. Address 5701 Peoria St., Chicago, Ill.
H. E. Browning (swine division), Wisconsin, Illinois, Indiana, Ohio, Michigan and Kentucky. Address Hersman, Ill.
A. T. Cole, Missouri, and north half of Kansas. Address 3900 Holmes St., Kansas City, Mo.
J. C. Price, Nebraska (south of Platte river) and Kansas north of central branch Missouri Pacific R. R. Address Seward, Neb.
A. W. Hopkins, Wisconsin. Address Fairchild Block, Madison, Wis.
E. T. Parker, northwestern Iowa, South Dakota and southwestern Minnesota. Address 1607 Nebraska St., Sioux City, Iowa.
C. C. Carlin, special assignments in central, southern and northern Iowa. Address 715 Clinton Ave., Des Moines, Iowa.

FIELD NOTES.

Some good Chester White fall boars are advertised for sale by Mr. S. J. Philson, of Harlan, Iowa, on page 20.

Mr. John P. Holst, Jr., of Denison, Iowa, is offering some extra choice fall Chester White boars and gilts for sale on page 20.

Mr. C. C. Norton, of Corning, Iowa, is offering some richly-bred Cruickshank bulls for sale on page 21. It will pay you to visit his herd and see these young bulls if you are on the market for a herd header.

Mr. Charles McCoy, proprietor of the Riverside herd of Duroc Jersey hogs, at Emmetsburg, Iowa, has this season about seventy pigs of March and April farrow. These are by Golden Wonder, Wonder Gold Lad, Model Wonder and P. A.'s Col. Golden Wonder is the son of the Iowa State Fair champion winner, Red Wonder. Model Wonder is a son of Model Chief and P. A.'s Col., he by King of Cols. The dams are by Golden Wonder, Model Chief and Hanley Jr. The herd is not only one in which royal blood lines exist, but is of a high order of excellence. We will have more to say of this herd in later issues of The Homestead.

Mr. Ed. Dodge, of Edgerton, Minn., is one of the leading breeders of mule-footed hogs in the United States. He has this season a crop of about forty spring pigs which will be offered for sale a little later in the season. Mr. Dodge has some very choice specimens of the breed. A representative of The Homestead who visited the herd was much impressed with the size and quality of the two litters. The patch and Indian Chief are very large, with length and stretch, heavy bone and smoothness of finish. Mr. Dodge's advertisement will appear in The Homestead in a short time, when additional particulars will be presented to our readers.

Mr. William P. Gerst, of Alton, Iowa, breeds Poland China hogs and Short-horn cattle. His Poland Chinas are largely of the strains which have made the Peter Mouw herd prominent. He has fifty spring pigs sired by Challenger and R. Longfellow. The dams are daughters of A. Wonder, Big Bone and Longfellow. One of the sows in this herd is Molly Wonder that last season sold at public auction for \$310. She farrowed ten pigs in April and raised all of them. Molly Wonder is a daughter of old Chief Price 2d, and her dam was Molly A. by A. Wonder. Her litter are by R. Longfellow. These pigs will be offered for sale this fall. Mr. Gerst's advertisement will appear in The Homestead in due time.

Mr. F. H. Dickey, of Emmetsburg, Iowa, is the proprietor of the Orchard Hill herd of Duroc Jersey hogs. Although he has been in the business for a number of years he considers the present crop of spring pigs the best that he has ever raised. Seventy-five of them are of March and April farrow. His pigs are the get of Golden Wonder, Hanley Jr. and two other good hogs, sons of King of Cols. and Model Wonder. The dams are by Junior Jim, Kant Be Beat, Advance and Kruger Lad. Mr. Dickey's farm lies adjacent to the town of Emmetsburg and is one of the best equipped for the purpose that the writer has seen. It has beautiful pastures and shade. Mr. Dickey is also in the dairy business and this fact gives him plenty of skim milk to feed his pigs and they certainly take advantage of it. Mr. Dickey has used Golden Wonder for three years and would now part with him to someone who appreciates the value of an extra good hog. He will also sell Hanley Jr. For prices or additional particulars

concerning these hogs write Mr. F. H. Dickey, Emmetsburg, Iowa.

Messrs. F. L. Reinhard & Son, of Ottumwa, Iowa, advertise Indian Runner ducks on page 12.

Some good Aberdeen Angus bulls are advertised for sale by Messrs. Isenbarger Bros., of Battle Creek, Iowa, on page 21.

Shetland ponies are advertised for sale on page 22 by Mr. F. P. Healy, of Bedford, Iowa. Send a two-cent stamp and get one of his pony post cards.

Scotch and Scotch-topped bulls of the very best families and sired by a son of the international grand champion winner, Imp. Cock Robin, are advertised for sale by Mr. S. A. Bixler, of Corning, Iowa, on page 21.

A couple of extra choice young Scotch bulls are advertised for sale by Cols. H. S. & W. B. Duncan, of Clearfield, Iowa, on page 21. One of these is a Cruickshank Secret, sired by the noted bull, Gloster's Favorite. These bulls are good enough to head herds and can be bought right.

Spring boars and gilts from the noted Poland China herd of Messrs. Williams Bros., of Villisca, Iowa, are advertised for sale on page 20 at \$25 if ordered now. You can save much by placing your order right away. They also have some splendid fall boars that are good enough to head good herds. They will also quote you prices on these if you will only write them at once.

Holstein buyers are always welcome at the farm of Mr. W. R. Gates, at Fort Atkinson, Wis. This breeder is acquainted with many of the leading Holstein men in the East and each year makes several trips to the eastern states in order to replenish his stock. In this way he is able to keep a large number of males and females on hand for sale throughout the year. He can supply orders for single animals or for carload lots as desired. If he does not have what you want he will know just where you can go to get it. When writing for his prices do not fail to mention The Homestead.

The advertisement of the Cyclone hay press will be found on page 16. This press is made by Messrs. Geo. Ertel & Co., of Quincy, Ill. The Cyclone is a three-stroke, self-feed hay press. It is the most powerful and most efficient horsepower press in the market. It can be operated by two men and two horses and will bale from ten to twenty tons a day, with very light draft on the team. The Ertel Company also make a new Daisy, one-man, one-horse hay press which will recommend itself to those who have small quantities of hay to bale. For illustrated circular and price list concerning both these presses, write to Messrs. Geo. Ertel & Co., Quincy, Ill.

Daily papers convey the intelligence that a disastrous fire at Ypsilanti, Mich., June 9th, destroyed a great portion of the famous Ypsilanti hay press factory. Patrons of the concern, however, may rest easy with reference to any contracts they may have for hay presses for future delivery. The factory is running just as usual and deliveries were made from the day of the fire up to the present time, without any delay. The Ypsilanti press is one of the good ones in the market and those who contemplate the purchase of a press will do well to write for circulars and price list to the Ypsilanti Hay Press Company, 207 Forest St., Ypsilanti, Mich.

A representative of The Homestead last week called upon that old-time breeder of Duroc Jersey hogs, Mr. A. J. DeYoung, of Sheldon, Iowa. That gentleman has a crop of 175 spring pigs mostly of March and April farrow. They are the get of Model Banker, King of Cols. Again, A. Wonder and several other sires of note. Model Banker traces to the well-known sire, Reeds Banker, and his dam was a daughter of Model Chief. He is not only a hog, therefore, of the highest individual character, but one whose pedigree is unexcelled. King of Cols. Again is a litter brother to the first-prize hog in the yearling class at the Iowa State Fair in 1909. The brood sows of Mr. DeYoung's herd are daughters of Junior Jim, Phalls, Perfection Wonder, Achiever, Ohio Chief, Dale, Iowa King M., Iowa Notcher and others. Mr. DeYoung's announcement will appear in The Homestead in a short time.

The illustration which appears here-with shows the factory building of the Huiskamp Bros., at Keokuk, Iowa. Messrs. Huiskamp Bros. manufacture the "Barnyard" shoe, an advertisement of which has been a common feature in the columns of this paper. The "Barn-



yard" shoe has so many points of superiority for farm use that it has grown into wonderful popularity. During the past season more than 500 pairs have been produced daily, but the demand is so great that the facilities are to be increased to a daily output of more than 1,500 pairs. A booklet describing

the "Barnyard" shoe may be had by writing to the Huiskamp Bros. Co., Dept. 10, Keokuk, Iowa.

Some good Red Polled bulls are advertised for sale by Mr. C. W. Huff, of Mondamin, Iowa, on page 20.

Some good young Short-horn bulls are advertised for sale by Mr. S. A. Bixler, of Corning, Iowa, on page 21.

Mr. Leroy A. Hays, of Knoxville, Iowa, advertises on page 12 that he has for sale good Scotch Collie pups of excellent lines of breeding. They are now ready for shipment.

Aberdeen Angus bulls at from \$75 to \$100, of the reliable families, are offered for sale by Messrs. Green & Hris, of Fontanelle, Iowa. Read their advertisement on page 21.

Mr. Amos Hanson, of Collins, Iowa, announces on page 18 that he wishes to sell or trade a thoroughbred running stallion. The price which he quotes is reasonable. For further particulars write to the address named.

Messrs. Williams Bros., of Villisca, Iowa, are advertising Poland China spring boars and gilts for sale at \$25 each if taken right away. They can sell in trios if wanted, not related, and as many as desired. They also offer a few very choice fall boars for sale. See advertisement on page 20.

October 26th is the date claimed by Messrs. Gorman & Cahill, of Dougherty, Iowa, and Van Note Bros., of Mason City, Iowa, for a sale of Herefords to be held in Mason City. These gentlemen will sell fifty head of high-class cattle at that time. It will be well for our readers to keep this sale in mind.

Messrs. Cahill Bros., the well-known breeders of Short-horn cattle and Duroc Jersey hogs, of Rockford, Iowa, and Messrs. Gorman & Cahill, of Dougherty, Iowa, will hold a sale of Duroc Jerseys at the farm of Messrs. Cahill Bros., near Cartersville, Iowa, on October 13th. Full particulars of this sale will appear in The Homestead in due time.

Mr. W. W. Bell, of Valley Springs, S. D., proprietor of the North Star Sheep Farm, has about 500 head of sheep on his farm. He has just got through shearing these sheep and they made an average of eleven pounds per head. As he has been offered twenty-five cents per pound, this wool clip would have netted him \$2.75 per head this season. That looks like a paying business. Mr. Bell's lamb crop this year runs about 98 per cent. His advertisement will appear in later issues of The Homestead, when additional particulars will be given.

The Ford Mfg. Co. advertises the Ford eveners on page 2. The illustrations shown in the advertisement give a better description of the Ford evener and the manner in which it operates than could be given in any other manner. The Ford is a thoroughly effective and tried evener and one which sells at remarkably low prices. It prevents side draft and makes the pull equal on all the horses. A binder attachment is furnished for a very low price. For descriptive circular and special price list write to Ford Mfg. Co., Dept. C, Rockford, Ill.

On page 13 our readers will find the announcement offering Idaho farm and orchard lands for sale. These are situated in the noted Twin Falls irrigated district. The lands are without question as productive as can be found in the world. They afford a splendid opportunity not only for the man who wants to establish a home, but equally as well for he who wishes to purchase for speculative purposes. Values are certain to rise. For prospectus giving prices and descriptions write to Twin Falls Nursery & Orchard Co., Box 1278, Twin Falls, Idaho.

Farmers who are looking toward the Southwest for lands are invited to read the advertisement of Messrs. Allen, Hart & Co., which appears on page 13. These gentlemen own or control over 50,000 acres of excellent farm land in some of the best counties of eastern Oklahoma. It is a productive section of country. These lands will be sold at low prices and on terms which will adjust themselves to the requirements of almost any buyer. For special low prices or additional particulars write to Messrs. Allen, Hart & Co., 208 Commerce Bldg., Kansas City, Mo.

The Auto Fedan Hay Press Company, of Kansas City, Mo., whose advertisement appears on page 6, have recently published an interesting pamphlet entitled, "Hay Made Profitable." The book takes up the history of hay making as it was half a hundred years ago, and follows up the various improvements until they culminate in the Auto Fedan hay press which is described as a machine of the most economical character, and in fact a perfect hay press. This book may be had free of charge by all readers of this paper who write to the Auto Fedan Hay Press Company, Kansas City, Mo.

Mr. A. J. Haugland, of Story City, Iowa, is a new candidate for favor as a breeder of Duroc Jersey hogs. He has this season a nice crop of spring pigs which he will offer for sale at the proper time. Mr. Haugland began business with a couple of good old brood sows and his present herd is the outgrowth of this start. These sows were full sisters and granddaughters of Mr. Freed's great hog, Manly Orion. Manly Orion has the reputation of having been one of the biggest of the big-boned sons of that noted old Orion. In addition to the size and bone which have made him and his get popular among farmers, he was also for three successive years a winner in the straw competitions of the Iowa State Fair. Mr. Haugland's present herd boar, Violet Champion, is a grandson of Tientsin and tracing on the dam's side to the

well-known Malcolm herd, of Minnesota. Mr. Haugland's advertisement will appear in these columns in due time.

Mr. Thomas Stanton will offer a strong lot of Berkshires at public sale at Aurora, Ill., on August 19th. Full particulars will appear in these columns in due time.

Mr. Geo. H. White, of Emerson, Iowa, has a few very excellent Scotch and Scotch-topped bulls for sale, and he is pricing these right. His advertisement appears on page 21.

Farmers who have not yet disposed of their wool clip will be interested in the advertisement of Messrs. Weil Bros. & Co., as it appears on page 7 of this issue. This firm is an old established and reliable one who advise us that they can give such terms to sellers as will be profitable to them. Price list may be secured by sending a postal card addressed to Messrs. Weil Bros. & Co., Box G, Ft. Wayne, Ind.

Messrs. S. Metz & Sons, of Homewood, Ill., are making special summer prices on Percheron stallions and mares. They landed a big importation late in April and any of our readers who are in need of a strong young stallion or a reliable pair of mares can get the right sort at the right kind of a price at the Homewood establishment. Look up their advertisement on page 22 and write them your wants.

Mr. C. L. Harper, of Allen, Neb., breeds Poland China hogs and had this season a crop of something like forty spring pigs. These are the get of Henry's Choice and Guy Price 2d. Henry's Choice is a son of Marshall Jr., that was a prize winner at the Interstate Live Stock Show in 1909. Guy Price 2d was bred by Mr. Lanigan and has size to his credit. The dams of the pigs are sired by Guy Price 2d, Thickset and Jay's Chief Tecumseh.

Mr. William Lessman, of Wayne, Neb., announces that he will make a final dispersion of his entire herd of Short-horn cattle on October 5th. The herd includes about fifty head of cattle, mostly of the Young Mary and Rose of Sharon families. About ten of the lot will be young bulls. Mr. Lessman is making this closing out sale for the reason that he is making a general cleaning up of all his property with the expectation of moving to Kansas in the fall. Further announcements will appear in later issues of The Homestead.

The next and only summer term of Jones' National School of Auctioneering will open July 25th, and students will be graduated in ample time to participate in the fall sale season. The instruction of this pioneer school is complete in every detail, and those taking the course will find themselves in every way fully equipped for a successful career. A handsomely illustrated catalog gives particulars, and will be sent to any address if you mention this paper and write Mr. Carey M. Jones, president, 2856 Washington Boulevard, Chicago, Ill. The advertisement appears on page 23.

Messrs. W. M. Wright & Son, of Allen, Neb., breed Poland China hogs and have 225 head of spring pigs on hand. A good portion of this season's crop of pigs are the get of Bright's Wonder, sire Wonder 4th, dam a daughter of Extra Tecumseh by Tecumseh Wonder, a Mouw-hred hog. There are also pigs by Chief H. and Orange Chief, both of which are bred along big lines. The brood sows in the herd are daughters of Big Bone, Wonder 4th, Chief Price, Leader, Dictator and others of the big strains. Messrs. Wright will hold a boar sale October 18th and a sow sale February 2d.

Mr. Henry Tidrick, of Winside, Neb., breeds Poland China hogs and Short-horn cattle. He claims November 19th as the date of his Short-horn sale. His crop of Poland China pigs numbers about 100 head. They are the get of Keep On Line, Model Tecumseh and Ideal Tecumseh. The brood sows are by Chief of All, Big Hadley's Model, Victor Model 1st, Dictator, Perfect Dude, Model U. S., Jewel Leader, etc. A representative of The Homestead who visited the herd found that it contains both size and quality and that the present crop of pigs is an extra good lot. Mr. Tidrick's advertisement will appear in the columns of The Homestead in due time.

The illustration which appears herewith shows the handy automatic stock fountain, which surely seems to answer all the requirements for a stock fountain which shall at once be simple,



endurable and easily regulated. This fountain is advertised on page 12. It is made by the Novelty Iron Works, of Sterling, Ill., and sold direct to farmers at very reasonable prices. Write for illustrated circular and price list.

Good Poland China Fall Boars.

Thirty-two splendid fall boars, sired by Big Jerico and Model Chief and out of his largest brood sows, are advertised for sale by Mr. Chas. W. Humerick, of Atlantic, Iowa, on page 20. These are big-boned boars and if you let Mr. Humerick select your pig he will send you a good one. He is pricing these boars where any farmer can

well afford to buy one. Read his advertisement and write him about these boars at once.

Red Polled Bulls and Heifers for Sale.

Readers of The Homestead who want Red Polled bulls or heifers should write Mr. C. A. Crawford, of Anthon, Iowa. He has some good ones and can sell a car load. Read his advertisement on page 20.

Bred Poland China Sows.

Mr. J. O. James, of Braddyville, Iowa, owner of the famous big-type Poland China boar, Pawnee Lad, is advertising a splendid lot of bred sows for sale, also a high-class lot of spring boars and gilts. Read his advertisement on page 20.

Good Poland China Fall Boars.

Those of our readers who want a right good fall boar should read the advertisement of Mr. John B. Lawson, of Clarinda, Iowa, on page 20 and write him for prices at once. He has some very excellent boars, good enough to head herds, and at reasonable prices. Mention this paper when writing him.

Extra Choice Hereford Bulls.

Messrs. Edmonds, Shade & Co., of Kingsley, Iowa, are just now offering an extra choice lot of Hereford bulls for sale sired by Imp. Albany and Columbus 35th. They also offer to sell two of their present herd bulls, as they have about five of them on hand. Read their advertisement on page 20 and write them about these bulls.

Carl's Col. Boars for Sale.

Duroc Jersey breeders who want a son of the celebrated boar, Carl's Col., should correspond with Messrs. Edmonds, Shade & Co., of Kingsley, Iowa, at once. They have a splendid lot of fall boars on hand sired by Carl's Col. and out of the very best brood sows in their noted herd. When writing them kindly mention The Homestead.

An Important Invention.

The accompanying engraving shows one of the styles of eveners as made by the Heider Mfg. Co. The Heider evenner is made for two, three, four, five or six horses and is adapted to King, sulky or disk plows or binders. The Heider has been in the market for sev-



eral years and the demand for it has grown so rapidly as to be the very best endorsement that could be given it. Farmers who have not yet given it a trial should write at once for a circular and special price list, addressing the request to the Heider Mfg. Co., Dept. 16, Carroll, Iowa.

C. C. Roup's Tamworths.

Mr. C. C. Roup, the well-known breeder and showman of Tamworth swine, starts an advertisement in this issue of The Homestead. He has a grand lot of spring pigs, mostly sired by Springbrook Diamond 4735, he being sired by Knowle King David, imported in 1907, and he in turn being sired by Joey 9505, winner of first at the Bath West show of England, first at Royal Center, second at the Royal Agricultural Society Show, second at Lancaster and first at Yorkshire. It will be seen from the above that Mr. Roup buys and uses only the best-bred and best individual boars he can find. His herd of sows are equally as well bred and many of them have been prize winners at the Iowa State Fair and the Industrial Show at Toronto, Ontario. At the Iowa State Fair, 1908, Mr. Roup won the following prizes: Second on aged boar, second on junior yearling boar, second and fifth on boar pig, first and fifth on aged sow, first on junior yearling sow, first and second on under-year sow, first on sow pig, first on young herd, first on herd bred by exhibitor, first on get of sire, champion sow bred by exhibitor. This gives a good idea of the class of stock he breeds. The above should be enough to convince anyone that if you need a Tamworth boar or gilt you should write to Mr. C. C. Roup, Iowa City, Iowa, for price and description of his

stock. When writing kindly mention The Homestead. See his advertisement on page 20.

Healy Offers Ponies for Sale.

One of the best herds of ponies in the state of Iowa is owned by Mr. Frank P. Healy, of Bedford, and he now offers some choice young stock for sale. Read his advertisement on page 22 and if you want anything in the pony line write him.

Buy the Best and Breed Better.

If you are expecting to engage in the business of breeding Guernseys you will want a sire backed up by an ancestry of known excellencies. Then, too, you will want a few very choice females from which to build up a herd. Of course, you will not be able to buy a herd of the sort which you will eventually wish to own. You will want the opportunity to produce that sort for yourself. When buying the foundation stock you can do no better than to visit Messrs. Fox Bros., at Waukesha, Wis. These breeders have a combined herd which numbers ninety head and have been breeding for production. If you cannot find what you want in their herds it is only three and six miles respectively to the farms owned by Messrs. William Jones and Howard Greene, who also breed Guernseys of the very highest type. There is not a place in the country where you can find more choicely-bred Guernseys than in the neighborhood of Waukesha. Write to any of the breeders mentioned for fuller information and do not forget to mention this paper when writing.

The Homestead Makes Many Sales.

Mr. T. J. Barmore, proprietor of the Maple Lane Stock Farm near Monroe, Wis., writes: "It is a hard matter to have anything to offer for sale, as The Homestead brings me so many buyers that I am kept well sold out. In order to have something for sale I have decided to offer a fine four-year-old cow which is due to freshen about July 8th and also a few yearling heifers which are bred to one of my young bulls exhibited at the National Dairy Show. One of these bulls which I won with at the same show will also be for sale. He is about fifteen months old and will weigh between 1,000 and 1,100 pounds. He is a fine fellow and will be shown again at Milwaukee in October if not previously sold. My herd is in fine condition and with but little fitting will be ready for the show. I would be glad to have anyone wishing show stock to visit my farm and look over my herd. One member of my show herd is due to freshen in August. She is a nicely-marked cow and her mother was bred by Mr. W. B. Barney, of Hampton, Iowa. I certainly appreciate what you are doing for me and will gladly return the compliment whenever an opportunity presents itself."

Hickey's Big-Type Polands.

One of the coming big-type Poland China herds in Nebraska is that of Mr. Edward Hickey, of Gretna, who has been laying the foundation for one of the best herds in the state. He was one of the best buyers in the W. W. Wheeler sales and secured many of the best sows he offered for sale. He also purchased the big boar, King Mastodon 134121, a son of old Mastodon and out of the well-known Mouw-bred sow, good pigs by Columbia Chief 2d, Missouri Lad and Mastodon Chief. One of the earlier A Wonder litters is out of Ideal 2d, a daughter of the 1,000-pound boar, Monarch Jr., and the other litter is out of Lady Mastodon 6th. The Columbia Chief 2d litter is out of Mastodon Maid 20th and there are some extra choice pigs in the litter. The good litter by King Mastodon is out of Lady Mastodon 12th by Surprise Orange Maid D. by old Chief Price. Mr. Wheeler thought a lot of this boar while in his herd and Mr. Hickey has some splendid spring pigs by him on the farm. He also has two litters by the noted big-type boar, A Wonder, that now heads the Fesenmeyer herd at Clarinda, Iowa. Then he also has some Wonder 5th. Readers of The Homestead will readily see that he has the strictly big-type, big-boned Poland Chinas, and it won't be a bad place to step in and get a pig one of these days. Mr. Hickey will be glad to show the breeders what he has at any time and he can furnish you a good pig at any



MOLINE CARS IN THE GILDDEN TOUR.

The engraving which appears herewith shows the Moline Dreadnought Squadron that represent the 1911 models of the Moline car in the Gildden tour which started from Cincinnati, June 14th. In last season's tour the three Moline cars made a most remarkable record and for that reason the tour of the present season is looked to with decided interest, not only by the manufacturers of the Moline, but by the many of its admirers throughout the country. The present tour takes these cars through fifteen different states and over probably as wide a range of quality of roads as can well be found. The Moline will undoubtedly uphold its previous record, as some quite considerable improvements have been made over the previous models. Any information concerning the late models of the Moline car may be had by addressing a request to the Moline Automobile Company, Moline, Ill.

TOO LATE TO CLASSIFY.

HEREFORD CATTLE

Cows and heifers of all ages for sale, both horned and polled. Also a few young polled bulls sired by the Double Standard polled bull, Mutation 220761. Will sell any number from one to a car load. Write for prices.

FRANK HETH & SON, MOUNT OLIVE STOCK FARM, R. F. D. 3, JOLIET, ILL.

For Sale—"Archie Collins"

THOROUGH BRED running stallion, 16 years old; as vigorous and young looking as a 6-year-old; price \$150 cash or will trade for anything of equal value, except another stallion. I have no use for one. Address AMOS HANSON, Collins, Iowa.

FOR SALE—One Aberdeen Angus bull, Homedale Polo 2d 85643, black, calved Oct. 16, 1905; bargain taken soon. Write John M. Hall, Williams, Iowa.

... if you are looking for the big-type kind. Later in the season we will have more to say about his herd and what he has for sale.

Ground Limestone.

The Iowa Sugar Company, of Waverly, Iowa, place an advertisement of their ground limestone on page 6 of this paper. In a letter concerning the importance of this material as a corrective and fertilizer the manager of the above company writes as follows: "This material is a by-product of our process and experiments have shown it of great value, as in addition to possessing the general properties of lime and limestone, it contains a limited amount of soil constituents. In clarifying our beet juices it becomes necessary to introduce carbonic acid gas and, therefore, the operation of a lime kiln. We first secure a chemically pure limestone, from which we drive the carbonic acid gas and utilize the resultant lime by slacking and again unite, forming a limestone, and contain in addition such salts as the beet juice may contain; hence the presence of phosphorus acid and potash. The product is flocculent and therefore easily distributed and I have no doubt that at the price we are offering the product the farmers will find it to their advantage to utilize the entire supply, which will run about 3,000 tons per annum. The presence of limestone releases and puts in available plant food form the potash that is present in excess in all Iowa soils, but, however, generally locked up in unavailable form."

Whipple's Poland Chinas.

A representative of The Homestead recently called on Mr. J. B. Whipple, breeder of Poland China hogs, at Falls City, Neb. That gentleman has about 100 pigs of early farrow that are as even a lot as can well be found. He has a fixed type in his mind toward which he has been breeding and he now believes that he has in a fair measure reached the desired end. It is certainly a pleasure for any lover of good hogs to inspect the herd. It contains an aggregation of hogs that are right in their lines, bred for early maturity and possessing the inherent tendency toward the production of large litters and ability to nourish them and bring them to maturity. There is also splendid evidence of rugged constitution. It is just this class of hogs that have made the Nebraska hogs famous. Their popularity is of the kind that improves with age. Most of the pigs on Mr. Whipple's farm are the get of Wilkes Again. Mr. Whipple has reserved for his own breeding purposes a grand bunch of yearling sows by this hog, and it is a question of doubt if a finer lot can be found by any one buyer in any one herd in the state. Other pigs of this season's crop are by Grand Success, a son of First Quality, dam Model Perfection 3d by Highland Chief. Further particulars concerning this herd will appear in a later issue of The Homestead when Mr. Whipple's advertisement starts.

Wigstone Bros.' Polands and Short-horns.

One of the good Poland China and Short-horn herds in southern Iowa is owned by Messrs. Wigstone Bros., of Stanton, who are quite well known to readers of The Homestead. They have 100 head of good pigs this spring and two good fall boars, as well as some good fall sows. They breed the big-type Polands and they have an excellent lot of big brood sows on their farm. Their pigs this year are sired by three big-type boars, viz., Prospector 2d, Major Nelson and Grand Growthy. Some of their best spring litters are sired by Prospector 2d. One of these good litters is out of Lady Giantess, a granddaughter of old Giantess. There are three good boars and two gilts in this litter and they are going to be very growthy by fall. Another good litter of five boars by the same hog is out of Grand O. K. by Grand Growthy. Lady Peerless has a good litter by Grand Growthy, and there are several other good litters that will look well by fall. Messrs. Wigstone have a good herd of big-type Polands and they have sent out some good hogs from their farm. The two good fall boars that they have for sale are out of Lady Giantess and Valley View Giantess 2d. They are going to have some good boars to offer the trade this fall. They also breed Short-horn cattle and they now have five good young Short-horn bulls for sale. These are sired by their splendid Scotch bull, Sleepy Eye 300587, a bull they purchased a couple of years ago from Mr. George Burge at the state fair. They also have a young Scotch bull sired by Scottish Fame and out of Lady Eclipse. Messrs. Wigstone have some good bulls in this bunch and they are pricing

them right. They will be pleased to have Homestead readers write them or call and see them personally and they will take pleasure in showing them their two herds.

McIntyre's Poland China Offer.

It is a great sow proposition that Mr. F. W. McIntyre, of Red Oak, Iowa, is offering on page 20. If you want a bred sow write him about these at once.

Guaranteed Holsteins.

Corn-belt farmers who are looking for Holstein-Friesian cattle should read the advertisement of Mr. T. J. Barmore on page 21 of this issue. He has a large herd to pick from and Monroe is easily reached on the Chicago, Milwaukee & St. Paul railway from Janesville or from Madison, Wis., or Freeport, Ill., via the Illinois Central railway.

Dairymaid of Pinehurst Guernseys.

Guernsey bulls closely related to Mr. W. W. Marsh's great cow, Dairymaid of Pinehurst, are being offered for sale by Messrs. Ben Clark & Son, of White-water, Wis. As every Iowan has reason to know the Pinehurst blood is A1 in production. If you wish to stamp your herd with milk and butter production buy a bull from a line of breeding known for its production. Messrs. Clark have just that type for sale.

Brookmont Herefords.

Those of our readers who want to buy young Hereford bulls or cows and heifers should write to Mr. A. E. Cook, of Odebolt, Iowa. He is just now offering a choice lot from his noted Brookmont herd and he will price them right. If you are thinking of buying Hereford cattle write Mr. Cook at once and get his prices on them. Kindly mention The Homestead when writing him. See page 20 for advertisement.

C. S. Price's Poland Chinas.

That veteran breeder, Mr. C. S. Price, of Carson, Iowa, has 250 head of spring and fall pigs on his place this summer and you can count on his having some good ones among the number. The most of these are sired by his present big-type boar, Price's Victor, and American Fleet. Price's Victor is a son of Mr. Charlie Lonergan's Big Victor and his dam is Olin's Choice by Thompson's Choice by First Quality. He was the top boar in the Lonergan fall sale in 1908. Mr. Price also has a litter by Prospect and K's Best. He has a number of very choice spring litters and some good fall litters. Iola by Long Chief, dam by the 1,000-pound boar, Monarch Jr., has a good spring litter by Price's Victor and two of the best fall boars are out of her also. Clarinda Girl by Long King has a good spring litter by Price's Victor and there are others too numerous to mention. Mr. Price makes a public sale on October 5th this year, when he expects to show up one of the best offerings of the year.

Cahill Bros.' Short-horns.

Messrs. Cahill Bros., of Rockford, Iowa, are getting together one of the choice collections of Short-horn cattle in the state of Iowa. Their herd bulls are Blythesome Baron by Victor Baron and out of the Scotch cow, Imp. Butterfly 27th, and Proud Goods, a roan bull of the Lancaster tribe sired by Good Choice by Choice Goods. At the recent sale of Messrs. Bellows Bros., of Maryville, Mo., they bought the grand young white bull, Merry Goods, by Good Choice and out of a Scotch Secret cow by Imp. Merry Hampton. This young bull should make a great sire and prove a valuable addition to their herd. They also purchased a number of the choice females in the Bellows sale. Messrs. Cahill have over 100 head of Short-horns and at the present time offer two Scotch bulls, a Rosebud by Chief Reformer and a grandson of Imp. Lady Belle sired by Diamond King. They also have two Scotch-topped bulls sired by Chief Reformer. These young bulls are of serviceable age and are priced worth the money. This firm also have a herd of high-class Duroc Jerseys and have over 120 pigs that are coming along in fine shape. We will have more to say of their Durocs in succeeding issues. In the meantime write them about the bulls they are offering, kindly mentioning The Homestead.

Will Breed Hampshires.

Messrs. George McKerrrow & Sons, of Pewaukee, Wis., breeders of Shropshire, Southdown and Oxford sheep, have decided to import and breed Hampshires. A member of the firm, Mr. W. A. McKerrrow, writes us on June 25th: "We are pleased to announce that Mr. Geo. McKerrrow, our senior member, has been particularly successful in selecting an importation of Oxfords, Shropshires and Hampshires. He went over with the intention of getting several hundred of the best breeding sheep in England, regardless of time or expense. He has already secured about fifty big, wide Oxfords of uniform type and he says they are the same type that we have always handled, short legs and big bodies. The Shropshires have been selected from the flocks of Minton, Buttar, Pryce and others and among them are some rams which will make exceptional flock headers. There has been a great call for good Hampshires in America lately and our experience in Oxfords has taught us that big down sheep are as good property as anything in the sheep line. We will sell our Southdown flock and install a few Hampshire breeding ewes. Mr. McKerrrow has bought twenty-six of the choice of Lord Henderson's yearling ewes and also some very good ones out of Mr. Stevens' flock. We will have both rams and ewes for sale and they will be good ones. We have about 150 big, thick yearling Oxford rams now and the demand for them makes us wish we had more. Oxford rams of the right

type are very profitable sires and everybody seems to be beginning to realize it. We have some Shropshire rams and ewes by our great sire, Blatherwick, which we will offer this fall. They are true Shropshires, from nose to toes."

Holsteins in Carload Lots.

Messrs. Everson, at Lake Mills, Wis., make a business of supplying car-load lots of Holstein cattle. Not infrequently they have opportunities to buy herds of grades for their customers who may wish to fill in their barns with grades while building up herds of pure-bred cattle. Watch these columns for further announcements and in the meantime write Mr. Garth Everson, at Lake Mills, Wis., for further information.

Mark Eddy's Durocs.

If you want to see a good crop of spring pigs this year go and see Mr. Mark W. Eddy, of Fontanelle, Iowa. He has them to the extent of seventy-five head and they are sired by his splendid herd boar, Iowa Model, Fancy Orion and Valley King. Iowa Model is a good hog this year and he is in nice condition and he is certainly showing up some good spring pigs. One of the very best and most topky litters is sired by him and out of Lady Inventor. She farrowed sixteen and is raising five and they are topky and are strictly choice. They are a good-headed bunch and are even in their lines, both top and bottom. Missouri Girl 2d has another very excellent litter by the same boar, and Mina Perfection, a daughter of the Iowa State Fair winner, Perfection Chief, has a litter of six by Iowa Model. Model Anna (she was in the litter that Mr. Charles Veak won fourth on at Des Moines) has a good litter by Fancy Orion. Just now Mr. Eddy is offering two good fall-boars for sale by Iowa Model and out of Missouri Girl and these are all right and are good enough to head herds. The dam of these boars raised three litters between March 13, 1909, and March 13, 1910. He will also price spring boars or gilts at any time, and if any of The Homestead readers want anything in the Duroc Jersey line Mr. Mark Eddy can fit them out. When writing him kindly mention The Homestead.

Bieth & Son's Herefords.

A Homestead representative recently visited the herd of Herefords of Messrs. Frank Bieth & Son, of Joliet, Ill., and found there a large number of good cattle, both horned and polled. The herd was established some ten years ago, the foundation stock being secured from the best herds in the country, and as a result a strong class of cattle has been continually produced. There are no frills about the handling of the cattle at this establishment. They are cared for in a manner that warrants future usefulness. Some few years ago Messrs. Bieth & Son decided to turn their attention to the polled branch of Herefords, and secured a strongly-bred bull from Mr. Warren Gammon. This sire they have recently followed with a bull from the Mossom Boyd herd, and they are offering customers both polled and horned cattle, females and bulls. The horned females are the get of Weston Stamp, Prince Wilton and Coxey, while the polled cattle are sired by the Double Standard polled bull, Mutation. All females of breeding age are in calf to the Double Standard polled bull, Adastion. The cattle are not in high flesh, never having been pampered, but they are in shape to go ahead and produce the thrifty class of cattle needed by the farmers of the corn belt. Prices will be made that cannot fail to suit, and if you are in the market for good Herefords, either horned or polled, it will be to your interest to write your wants to Messrs. Bieth & Son, whose advertisement appears on page 18.

LIVE STOCK AUCTIONEERS.

Col. C. W. Smith LIVE STOCK AUCTIONEER

POSTED on breeds and values. A live wire on block or on the ring. Make your next date with me. Terms reasonable.

FAIRBURY, NEBRASKA.



PLINY NICHOLS WEST LIBERTY, IOWA. Live Stock Auctioneer

SALES made anywhere. Reasonable terms. I also breed Poland Chinas and Short-horns.

R. W. Mitchell, Albany, Mo. Live Stock and Real Estate AUCTIONEER

EIGHTEEN years' experience. Write me for dates. Copies of my live stock poems free when stamp is enclosed. Am booking fall, winter and spring dates.



N.G. Kraschel HARLAN, IOWA. Live Stock Auctioneer

I have a wide acquaintance among pure-bred breeders and am thoroughly posted in my vocation.

LIVE STOCK AUCTIONEERS.



121 Students in Attendance at January Term, 1910.

MISSOURI AUCTION SCHOOL LARGEST IN THE WORLD

AUGUST 1, 1910, is opening date at Trenton, Mo., for our next term. Additional instructors, selected from America's leading auctioneers, have been engaged to instruct and lecture during this term. No other profession paying better can be attained at ten times the expense and time, either legal, medical or otherwise, for those who will apply themselves. Our correspondence course is greatly appreciated by those who cannot attend personally. Illustrated catalogs of either course for the asking. W.M. B. CARPENTER, Pres., Trenton, Mo., or Oklahoma City, Okla.

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ENDORSED by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three months' scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn the art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15 to \$100 per day. Write at once for free booklet explaining thoroughly the possibilities in store for you.

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Col. Carey M. Jones

THE President of Jones' National School of Auctioneering is one of America's leading Live Stock Auctioneers. While he gives the School his personal attention and instruction he is only one of fourteen instructors and lecturers of national reputation employed for the coming term of five weeks opening July 25, 1910. Actual practice required at the school before diplomas are given. For catalog and information address

ORVAL A. JONES, Manager,
2856-2858 Washington Blvd., Chicago, Ill.

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AUCTIONEER AND EXPERT JUDGE. Have judged at Illinois and Iowa State Fairs. Have sold for the best breeders of the central West the past three years and have them rebooked. Posted on pedigrees and values. Sales made anywhere. Terms \$20 and expenses. I always deliver the goods. Write me for dates at Sunny Hill, Ill.

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SALES made anywhere. Reasonable terms. Have pleased others; can please you.

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CATTLE AND HOG SALES A SPECIALTY
WRITE FOR DATES AND TERMS.

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YEARS of experience selling pure-bred stock for noted breeders. Terms reasonable. Write for dates. Catalogs compiled.

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Thoroughly posted as to pedigrees and values. Write for dates. Terms reasonable.

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THOMAS DARCEY, the Short Grass Live Stock Auctioneer. 18 years' experience, thoroughly posted in pedigrees and sales. Call sales anywhere, wire or write for dates. OFFERLE, KANSAS.

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Specialty

Write for Dates and Terms.

J. L. McILRATH

GRINNELL, IOWA.

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Breeder of registered Belgian horses. Ask my customers. Write me.

LIVE STOCK AUCTIONEER

SEVENTEEN years' experience in the business. My customers are my best references. Write for dates. Terms right and satisfaction guaranteed. W. F. STRATTON, CAMBRIDGE, IOWA, Breeder Short-horn cattle and Duroc Jersey swine.

DUROC JERSEY SWINE.

Helen's Chief High Notcher

and Glad Col. head my herd of Durocs. Write for what you want.

M. A. KRASCHEL, MACON, ILLINOIS.

Fall Males and Gilts FOR SALE

Sired by Defender and others out of the dam of Defender. Prices reasonable for such breeding and stuff of much quality. Mention The Homestead. FRED BROWN, LOAMI, ILLINOIS.

Do You Need a Boar

I HAVE good ones by S. E.'s Model 80743 by Model Chief, dam by Advance. The dams of these boars are by Keep On III, Proud Advance and others equally as good. These males have quality and some are fit to go into the best herds in the land. Will price them cheap. My spring pigs are extra good, and of the best breeding. Write me or come and see. Please mention The Homestead. S. E. EATLE, PROPHETSTOWN, ILL.

FALL BOARS FOR SALE

DY O. & I. 82341, a line bred Col. and Protection boar of show yard quality; dams by Buddy K. IV. and Ambition. A few fall gilts, either open or will breed them. Also have 3 Scotch-topped Double Standard Polled Durham bulls for sale. Please mention The Homestead. Address MENAUGH BROS. - MAZON, ILLINOIS.

HUFF'S DUROCS

HUFF'S Advance, Brighton Wonder, Buddy's Improver. A few choice September boars for sale. The "Always Better Kind." C. W. HUFF - MONDAMIN, IOWA.

DUROC JERSEY BOARS

I HAVE four splendid fall boars for sale, sired by Iowa Model and out of Missouri Girl II; long, wide and heavy-boned fellows. Also booking orders for spring boars. Prices, \$25 to \$50. Address MARK W. EDDY, FONTANELLE, IOWA.

FOR SALE—20 FALL SOWS Bred to the champions, B. & C.'s Col. and Crimmon Wonder III. They are sired by B. & C.'s Col., Col. S. and McNeil's Model. Price \$50 to \$65. First come, first served. Address {Ed. A. Baxter, Pawnee, Illinois, R. L. Comer, Carlinville, Illinois.

MIDLAND Herd Duroc Jerseys. Bred sows all sold. Yearling boar for sale. Orders booked for spring pigs, July delivery. S. J. Butts, Mason City, Ia.

DUROC JERSEY SWINE.
30 Duroc Gilts 30
Summer and fall farrow. Sired by G. C.'s Kan. Col. Bred to son of King of Cols. II. and W. L. A.'s Choice Goods dam. Few to Nebraska Wonder, Crim-son Wonder's best son. Also fall boars, same breeding.
CHAPIN & NORDSTRUM, Green, Kan.

ZIMMERMAN & KAYS
McNABB, ILLINOIS.

BREEDERS OF DUROC JERSEY SWINE
100 SPRING pigs; two litters by Defender, one litter by Golden Model 11; others by King's Col., S. E.'s Model, J. I. C., Col. Stoner, Etnos Inventor and others. Orders booked. Stock always for sale. Please mention The Homestead.

DUROC JERSEYS
Thirty fall boars and ten gilts sired by Col.'s King, dams by Arthur's Choice, Proud Advance, Inventor, Com-modore and Tokio Paul. Would also sell Arthur's Choice, the pig that cleaned the first prizes at the Illinois State Fair, 1907. This stuff is growthy, but not fat. **Arthur L. Parks, Leland, Ill.**

The Sugar Loaf Duroc Jersey Herd
Col. S. and Ohio Chief's Banner HEAD HERD
A few gilts bred to the above boars for sale. Address **C. C. Cushman, Mgr., Chillicothe, Ohio.**

COL. J. CASTEEL
Offers Fall Boars
Ten fall males ready for service, by Champion Paul II. Dams of choice breeding. Will price them worth the money if ordered at once.
COL. JAY CASTEEL, Cambridge, Ill.

For Sale--12 Extra Choice Fall Boars
If you need an extra good Duroc boar we have them by Manley Orion's Son by Manley Orion, dam by Keep On II. These pigs are out of dams by Edu-cator, Champion Paul and others. Will be priced worth the money and are fit for immediate service. Address **GEO. L. MILLER, COAL VALLEY, ILL.** Care of Buck & Miller.

EDWIN HUMMER
KALONA AND IOWA CITY, IOWA.
Breeder of Duroc Jersey Swine and Bourbon Red Turkeys.
ALL STOCK PRICED REASONABLY.
Write Your Wants.

20 Duroc Boars 20
Got by King of Cols. II. and G. C.'s Col. Dams are Model Chief Again sows. All are good, of summer and fall 1909 farrow. Spring pigs doing fine. Ad-dress
FRANK ELDER, GREEN, KANSAS.

Real Reds to "Show You"
OUR crop of spring boars (sows are all reserved) carry the blood of King of Cols., Ohio Chief, Model Chief, etc., through strains of prize winners. They are right. Orders booked now.
E. W. Davis & Co., Glenwood, Missouri.

BERKSHIRE SWINE.

Big Hog Sale
(Or Carnival)
Remember the date, Sept. 14--the time to buy at bottom prices. Tune up your herd with blood of the famous

BERKSHIRE
Boars and sows. There is none better. Berks command big-est profits. Cheapest and easiest to raise in the world. Pedigreed pigs, boars, sows with young. Write for the Carnival Catalogue.
MORGAN FARM
Beloit, Wisconsin.



TAMWORTH SWINE.
TAMWORTH SWINE
SPRING pigs of both sexes from imported prize-winning stock. My herd has won many prem-iums at the Iowa State Fair. Write for what you want. **C. C. ROUP, IOWA CITY, IOWA.**

POLAND CHINA SWINE.
The Home of A WONDER 107353
THE largest and the most widely advertised big-type boar living. Boars and sows for sale at private sale at all times. Write me at once.
H. FESENMEYER - CLARINDA, IOWA.

POLAND CHINA SWINE.
McINTYRE'S BIG-BONED POLAND CHINAS
SPRING yearling sows bred for June and July farrow; tried sows bred for August and September. A few yearling boars, 50 choice September, 1909, boars and gilts, and boars and gilts of March and April, 1910, farrow, to be delivered at 3 to 5 months old. Blood of P. W. Giant, Hadley, Jumbo and Victor. Foundation stuff or new blood.
F. W. McINTYRE, Route 5, RED OAK, IOWA.

BIG-TYPE POLAND CHINAS With Big-Type Blood Lines
SIXTY head of bred sows averaged \$66.87 at our last sale, supreme evidence of the kind we breed and sell. Our herd is made up of the most noted animals of the type and breed. Spring pigs of either sex by Big Ex. (the 1,070-pound son of Pawnee Chief). Superior Look (a great son of Grand Look), and Chief Price (the big yearling with a 10-inch bone), a trio of boars with few equals in the corn belt. Write for special prices on small herds not akin.
W. H. COOPER - HEDRICK, IOWA.

WILLIAMS BROS.' POLAND CHINAS
THE LARGE TYPE, WITH QUALITY COMBINED. 275 SPRING BOARS and GILTS, and a number of fall boars for sale. These are sired by W.'s Major 45234, Young Look 47722, Pawnee Price 47721 and Villisca Chief. SPECIAL PRICES. We are offering spring boar pigs and gilts at \$25 each, and we guarantee satisfaction. Also some extra choice fall boars. Address **WILLIAMS BROS., VILLISCA, IOWA.**


12 BIG-TYPE FALL POLAND CHINA BOARS
I AM offering for sale 12 head of excellent fall boars, sired by Prospect and out of Lady Jumbo, Lady Jumbo 1st, Lady Jumbo 2d, Big Mariah, Big Jumbo's Equal and Anna Price 3d. Three of these are full brothers - the highest priced fall boars sold in the state of Iowa last year. I also have 25 splendid big-type spring boars for sale. If you want a choice boar write me at once.
JOHN B. LAWSON - CLARINDA, IOWA.

50 BIG-TYPE POLAND CHINA BOARS FOR SALE
Sires in service. Pawnee Lad 30853, the greatest big-type boar today in the state of Iowa and the sire of more herd boars than any other hog in the West. Big Ex 47717, a double-bred Expansion boar and Max Dade 470482, sweep-stakes boar at Nebraska State Fair. I have 50 choice boars for sale and a splendid lot of sows bred for fall litters to the above hogs. If you are looking for a boar to head your herd or a few choice bred sows, write me. I have what you want.
J. O. JAMES - BRADYVILLE, IOWA.

MEISNER'S BIG POLAND CHINAS
HERD headed by Metal Choice by Missouri's Metal by Bell Metal. Big-type sows by Big Hadley, Pawnee Chief, Nebraska Jumbo, etc. Fine lot of pigs now on hand. Inspection invited.
F. J. MEISNER, SABETHA, KANSAS.

HAMPSHIRE SWINE.


MAPLE LEAF HERD OF HAMPSHIRE
My herd won 14 ribbons out of 16 classes at the 1908 Illinois State Fair, including 7 firsts, 5 seconds, and both champion-ships. My sale of 51 bred sows on Jan. 29th averaged \$56.56. A few choice fall pigs of both sexes for sale. Write me.
A. L. GOODENOUGH, MORRISON, ILLINOIS.



Blue Ribbon Hampshires
WE bred champion load of fat barrows at 1907 International; also winning pen of barrows, 1908. Young stock of both sexes for sale at all times. Write for prices, mentioning The Homestead. **R. L. BOLLMAN, COAL VALLEY, ILL.**



WAYSIDE HAMPSHIRE
WE bred the load of barrows that won first in class over all breeds at 1905 Interna-tional. Young stock of both sexes for sale at all times. Breeder of Red Polled cattle. Young stock for sale. Write for prices, mentioning The Homestead.
MIKE SHARP - COAL VALLEY, ILL.



STONE STOCK FARM HAMPSHIRE
MY herd won more than all competing herds combined 1906-1907 at State Fairs and Internationals. Stock all ages for sale. Address, mentioning paper, **E. C. STONE, 703 E. Nebraska Ave., PEORIA, ILL.**




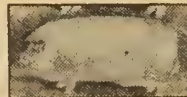
Hampshire Swine
FOR SALE. Four extra choice Hampshire boars of September farrow and twelve equally as good gilts by Kentucky King 1165, champion three state fairs, and Joseph 223. These gilts are bred for Sep-tember farrow to above boars. My herd won thirty-three prizes Ohio and Kentucky state fairs, includ-ing champion sow. Prices right for first-class stock.
G. H. DODDS, Kenton, Ohio.

HAMPSHIRE Swine
WE have for sale young boars ready for service, pigs in pairs or trios. No akin. Gilts bred for May and June. Prices reasonable. **L. C. MILLER & SON, R. F. D. 2, CANTON, ILLINOIS.**

25 Head of Spring Boars
5 Head of Yearling Boars
All good ones and guaranteed breeders. Prices reasonable.
H. D. DeKALB - DeKALB, IOWA.

CHESTER WHITE SWINE.

High Quality Chester Whites
CHOICE winter pigs weighing 160 pounds and a fine lot of spring pigs ready to ship at any time. Fair prices all the time. **D. H. LEWIS, GENESE, ILLINOIS**



CHESTER WHITE FALL BOARS
I HAVE a few choice fall boars, old enough for service, and will quote low prices on them. Sows and gilts are all sold.
S. J. PHILLSON, Route 6, Harlan, Iowa.


35 CHESTER WHITE BOARS AND SOWS
FOR SALE--Extra good ones, sired by Buster 19085. A son of Combination out of daughters of the noted prize winner, Modeller. Prices reason-able. **John F. Holst, Jr., Denison, Iowa.**

O. I. C. WHITES. Sept., Feb., Mar., April boars, gilts, bred sows; stock mated; prolific, large kind. Pedigrees free. **Fred Ruebush, Sciota, Ill.**

CHESTER Whites. Gilts, and sows bred to first-class males, to farrow in March and April at the low dollar. **E. J. Trumbauer, St. Charles, Iowa**

Hampshire Swine
A good lot of March and April pigs for sale, from fashionable families.
Write
GEO. LIPPERT, MAGNOLIA, ILL.

Hampshire Pigs
I AM now booking orders for spring pigs--male and female--and will begin to ship about June 1st. They are by four different sires and represent the strains with which I won championship on pen of barrows at the International show of 1909.
JOHN GOODWINE, POTOMAC, ILL.
When writing mention this paper.



POLLED DURHAM CATTLE.
POLLED DURHAMS
FOUR choice two-year-old heifers, sired by Agate's Don Joe by Royal Duke. Good individuals. Splendid milking strain. Priced reasonable.
Walter Johnson, Dorchester, Nebraska.


Ottumwa W. B. Bonfield, Ottumwa, Iowa, breeder of Double Standard Polled Durhams. Bulls and heifers for sale. Fair prices.

Clovermead Polled Durhams for sale. A few yearling bulls, heifers, heifer calves; well bred; good quality. **Wm. Barrans, Lenox, Iowa.**

LIVE STOCK ARTISTS.
A. V. LOCK, REMINGTON, INDIANA.
Live Stock Artist. Write me.

HEREFORD CATTLE.

Brookmont Herefords



IMP. MARCH ON 76835, Father of All March Ons, now in Brookmont Herd.

CHOICE YOUNG HEIFERS
with calf at foot are a special offer-ing just now. We also have a su-perior lot of bulls, ten months to two years old, excellent in breeding, individuality and type. You can have them at just about your own price.
A. E. COOK, Odebolt, Ia.

HEREFORD BULLS
DUROC JERSEY Boars
We are offering 20 young bulls of the strictly herd heading kind, sired by our noted herd bulls. Also 25 fall boars sired by the celebrated Carl's Col. Write us or come and see us.
Edmonds, Shade & Co., Kingsley, Ia.

Polled Herefords
WE offer for sale the largest bunch of Double Standard Polled Hereford bulls in the world. Considering age, size, color, type, breeding and the amount of Polled blood carried, we believe we have more good Polled Hereford bulls than any other breeder in the world. Priced surprisingly low. Just try us once.
Warren Gamman & Son, Des Moines, Iowa.
Originators of Polled Herefords.

HEREFORD BULLS
I AM offering six young Hereford bulls for sale; good, blocky fellows, with good colors and heavy bone. Will price these bulls right. Address
A. F. HAGER, AVOCA, IA.

POLLED HEREFORDS
OF both sexes. One herd bull and some borned cows bred to Success 4th, one of the best bulls of the breed. **W. H. Campbell, Grand River, Ia.**

HEREFORD BULLS
TEN young bulls for sale. Good individuals and the best of breeding. For prices and description visit or write to
JOHN ECKHARDT - WELLMAN, IOWA.

Polled HEREFORDS
THE largest herd in the world. My bulls carry as many Polled crosses as are found and my females are mostly Polled. Come and see the herd.
J. W. WYANT, BLYTHEDALE, MISSOURI

Hereford Herd Bulls
A FEW good bulls of herd header build, from 14 to 20 months old; very best of blood lines; good individuals and priced to sell. Write me before buying.
G. G. Clements, Ord, Nebraska.

HEREFORD Cattle
GOOD young cattle, bulls or heifers, for sale. Herd headed by Improver's Hesiod 107727. Blood lines of popular strains.
D. S. O'LEARY - IOWA CITY, IOWA.

RED POLLED CATTLE.

RED POLLED BULLS
TWO yearlings and some younger ones. Also offer our herd bull, Advancer, by Profector. Write for description, breeding and prices.
C. W. HUFF - MONDAMIN, IOWA.

CHOICE RED POLLS FOR SALE
SINGLY or in car lots. Best of breeding, good individuals and splendid milkers. These cattle are priced to sell.
Wendell Heil & Sons, Cedar Creek, Neb.

RED POLLED BULLS AND HEIFERS
I AM offering 10 head of splendid bulls for sale, ranging in age from ten months to four years; 25 head of excellent cows and heifers, all of which are hand milked. Can sell carload if wanted. Address
C. A. CRAWFORD - ANTHON, IOWA.

RED POLLED BULLS
ONE 3-year-old, one 2-year-old, 2 yearlings and several younger bulls. Extra quality. **GUS C. SEAMAN, Route 5, DAVENPORT, IOWA.**

MAPLE Grove Red Polls. Good registered bulls, 5 to 10 months old; also females at reason-able prices. **W. B. Danforth, Little Cedar, Iowa.**

AYRSHIRE CATTLE.

Ayrshire Cattle
Some of the best young things we have ever offered. They are bred at the top.
FRED TSCHUDY, MONROE, WISCONSIN.

HOLSTEIN-FRIESIAN CATTLE.

HIGH-GRADE HOLSTEINS

COWS or heifers in any number. They show quality and breeding. NO CHEAP STUFF. State exactly what you want.

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MONONA FARM HERD

Of pure-bred Holstein-Friesian cattle, the largest in Wisconsin, is noted, because it is made up of animals from the most noted families of the breed. The mating and selecting is done according to scientific methods. Come and see what that produces. Write us for description and prices. Compare the breeding, individuality and prices of what we are offering before buying. The herd is tested annually for tuberculosis.

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Registered and high-grade Holsteins, Guernseys and Jerseys, singly or in carload lots. State your wants.

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Box C, Syracuse, - - New York.

HOLSTEINS LAKE MILLS, WIS.
100 HEAD. A few grandsons of Hengerveld De Kol to offer from A. R. O. dams. High grades in carload lots that show quality and breeding. Barn a few rods from C. & N. W. Ry. WM. EVERSON & SONS.

HOLSTEIN

Cows and heifers any age.
Bulls fit for service.

W. R. GATES, Fort Atkinson, Wisconsin.

MAPLE Holsteins

EIGHTY HEAD IN HERD.
WE GUARANTEE OUR STOCK.

T. J. BARMORE, MONROE, WISCONSIN.

Elliott's HOLSTEINS

We offer for sale young cows, some A. R. O., bull calves and bulls of serviceable age, all of A. R. O. breeding. Write for description and prices.

JESSE ELLIOTT - WOODWARD, IOWA.

GUERNSEY CATTLE.

HELENDALE FARMS' GUERNSEYS

You have heard of them: Yeksa Sunbeam, Standard's Morning Glory, Penthesilia, Yeksarose and others of the Materna and Yeksa families. A small lot of bull calves and yearlings are on our new list just issued. The proper kind for the breeder and dairyman.

HELENDALE FARMS,
107 Wisconsin St., Milwaukee, Wis.

THE POPULARITY OF THE GUERNSEY

has increased more than Ten Fold in last fifteen years and the work of the Guernsey Herd Register shows a growth of

80% during 1909

Full particulars regarding this remarkable breed by addressing

THE AMERICAN GUERNSEY CATTLE CLUB,
Box E Peterboro, N. H.

GUERNSEYS

FOR SALE—I am overstocked and offer for sale IMPORTED

GUERNSEY HEIFERS

They are as good as could be bought on the island. Yearlings and two-year-olds, at from \$200 up.

W. W. MARSH - WATERLOO, IOWA.

WAUKESHA GUERNSEYS

Bred for Production.
Ninety Head in Herd.

A. W. and F. E. Fox, Waukesha, Wis.

Brook Hill Farm PURE-BRED GUERNSEYS

A FEW YOUNG BULLS FOR SALE.
SEND FOR SALE LIST.

David W. Williams, Supt.

GENESEE DEPOT, - - WISCONSIN.

Richmond Guernsey Herd

Established 1887. TUBERCULIN TESTED.

A FEW yearling bulls from Adv. R. cows, daughters of King Coral A. R. 16 and Capt. Robbie A. R. 25. They are sired by Glenwood's Stanford 9386, a son of Stanford's Princess A. R. 199, with 725 lbs. fat. He is a half brother to Dairymaid of Pinehurst, the leading cow in Iowa Dairy Cow Contest. Send for sale list of bulls. No females for sale.

Ben Clark & Son, R. 1, Whitewater, Wis.

Registered Holsteins (Established 1878.)

THE two greatest sires of the breed, Paul Beets De Kol and Hengerveld De Kol, have more sons and daughters in this herd than any herd in the world. Plenty of stock for sale.

R. E. HARGER, ALGONQUIN, ILLINOIS.

GUERNSEY CATTLE.

GUERNSEY HERD BULL

To avoid inbreeding I am offering my herd bull, Bonnrillius, for sale. He has one full sister that made 350 pounds fat as a two-year-old and seven sisters that have made more than the requirements for Advanced Register.

RALPH TRATT, WHITEWATER, WIS.

Guernsey Bull FOR SALE

Glenwood's Reputation 3d, dropped October 8, 1906. Dam made 668 pounds butter in a year. Price \$150. Also yearling bull and a few cows for sale.

J. GILBERT HICKCOX,
Box 83, Whitefish Bay, Wisconsin.

SUNNY VALLEY GUERNSEYS

Only a very few for sale—
but come and see us anyway

W. M. JONES, WAUKESHA, WIS.

JERSEY CATTLE.

JERSEYS

MUSKEGO LAKES HERD

A yearling bull calf—a combination of Hebron's King and Owl of Hebron families. That's good, isn't it? Well, he's as good as his pedigree.

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KING SAPHO KING

THE BEST BY TEST.

Do you want Heifers or Bulls?

J. Q. Emery & Son, Edgerton, Wisconsin.

ABERDEEN ANGUS CATTLE.

Rosemere Angus

HEADED by undefeated Oakville Quiet Lad and Thicket Blackbird. 10 young bulls by Glenfold Thicket, sweepstakes bull '08-'09 out of imported and home-bred dams of fashionable families. 25 yearling and two-year-old heifers bred to Glenfold Thicket, priced right for quick sales. Farm in city limits. O. V. Battles, Maquoketa, Iowa.

W. P. Brown, Herdsman.

INVERNESS ABERDEEN ANGUS

HERD headed by the Trojan Erica bull, Equatize 83737. Of the following families: Blackbird, Pride, Trojan Erica and Queen Mother. Some extra good young bulls and females for sale. Address,

ED. T. DAVIS, - IOWA CITY, IOWA

ANGUS BULLS

WE have 7 young Aberdeen Angus bulls from nine months to two years of age of the Blackbird, Queen Mother and Princess families that we will sell right. Price \$75 to \$100 if taken soon.

DUROC JERSEY BOARS

We have 50 head of Duroc Jersey spring and fall boars for sale at farmers' prices. Write us at once.

GREEN & HARRIS, FONTANELLE, IOWA

ANGUS BULLS We are offering a superior lot of Angus bulls of the best breeding that are just ready for heavy service. We are pricing them now to suit the man with a grade herd, and we invite inspection. Our herd is now headed by imported Ideal of Stranden 25153 and we will soon be offering both cows and heifers in calf to this noted bull. Located 17 miles east of Des Moines on C. R. I. & P. R. Wilkinson & Sons, Mitchellville, Ia.

ABERDEEN ANGUS BULLS

I AM offering six splendid young bulls for sale, sired by Maplehurst Hero 3d and my double-bred Trojan Erica bull, Erica's Equester; also a few choice cows and heifers. Prices reasonable.

WILL L. COLEMAN, CORNING, IOWA.

HIGH-CLASS ANGUS BULLS FOR SALE

OF the popular strains, sired by Black King of Home Dale, Blackbirds, Prides, Queen Mothers, Gilt Erics and Heatherblooms. Our prices are right. If in need of a bull, come and see us or write.

ISENBARGER BROS., Battle Creek, Iowa.

ABERDEEN ANGUS

BULLS for sale. 3 Prides, 1 A K, Pride, 1 Queen Mother, 1 Westertown Rose. Mostly by Blackward R, a high-class Erica topped Blackbird bull. Also high, smooth Poland Chinas. Come and see the herds. DAVIS BROS., Maryville, Mo.

ALFALFAHERD ABERDEEN ANGUS
Ericks, Blackbirds, Prides, Queen Mothers for sale. Harrison & Harrison, Indianola, Neb.

When writing mention this paper.

ABERDEEN ANGUS CATTLE.

Holbrook Aberdeen Angus Breeders

COMPRISING the noted herds of P. J., M. H. and Mike Donohoe, of Holbrook, Iowa, and P. Lenby, of Parnell, Iowa. 200 head of choice boddies within a radius of two miles of Holbrook. The International Champion Black Woodhewn 12998 heads the herd. The following families are represented: Prides, Blackbirds, Ericks, Heatherblooms, Barbaras, etc. Other bulls used on the herd are Woodlawn Blackbird Lad, Homedale Black Jade and Morning Star 2d. We can supply any class cattle desired. Come to Holbrook and allow us to convince you of this fact. Address any of above breeders, mentioning paper.

SHORT-HORN CATTLE.

CHOICE SHORT-HORNS AT BARGAIN PRICES

A dozen red bulls, beefy, high quality fellows, by Narcissus King 23556 (one of the most intensely bred Cruickshank bulls in America). Bargain prices to make room. Females by a son of Imp. Golden Fame and bred to Narcissus King, singly or by carload. You will buy if you see them.

R. J. COX - - - GRINNELL, IOWA

High-Class Scotch SHORT-HORN Bulls

WE have a number of bulls right around a year old; solid red in color; blocky, symmetrical, well finished fellows, with merit enough to entitle them to places at the head of good herds. They are all by Lord Banff Jr. and out of cows of straight Scotch lines of breeding. We want you to see them.

G. A. BONEWELL - - - GRINNELL, IOWA.

MONDAMIN SHORT-HORNS

WE now offer three yearling bulls at prices that will induce men to buy. Two red ones by Valiant Jr., a roan by Gwendoline's Bay. Also some choice younger calves by same sires for sale. Visit or write us. Address

HELD BROS., HINTON, PLYMOUTH COUNTY, IOWA.

SPECIAL SALE OF HIGH-CLASS Short-horn Bulls

Six choice bulls of most fashionable breeding, sired by Signal by Great Scott, Robert Hampton by Imp. Merry Hampton and out of the best of Lavender dams. These bulls will be priced low for quick sale. Write us before buying.

FREMONT WATTS & SON,
North Platte, Nebraska.

WHITE BROS. CENTERVILLE, IOWA.

SCOTCH and Scotch-topped Short-horn cattle, imported Jersey cattle, imported Percheron and Clydesdale horses. Imported and fashionably-bred Short-horns; headed by straight Scotch bulls. Milking strains a prominent feature. Cattle of all ages for sale at reasonable prices. The Jersey cattle are of the most popular strains. Young bulls for sale. Personal inspection invited.

LAWNDALE SHORT-HORNS

FOR SALE: Six choice Scotch and Scotch-topped bulls from 14 to 24 months old. Good individuals, good colors and best of breeding. Will be priced low for quick sale.

G. T. HAGGARD, HELVEY, NEB.

REGISTERED BULLS WANTED

We sell bulls on consignment and we now have orders for Herefords, Short-horn and Angus cattle. We always have high-class bulls on hand for herd headers. Write us immediately. Address

Bragonier & Son, South Omaha, Neb.

A FEW CHOICE SCOTCH SHORT-HORN BULLS For Sale I. Barr & Son, Davenport, Ia.

50 Short-horn Bulls for Sale

SCOTCH and Scotch-topped; 400 head in the herd, headed by Royal Goods, a grandson of Imp. Choice Goods. Can sell in car load lots. Prices reasonable. Address Riley Bros., Albion, Neb.

MILKING SHORT-HORNS

YEARLING bulls and female stock for sale. We weigh and test the milk from each cow. Visit us and help milk, or weigh in the milk for the herd. BLACKMER & NELSON, Albert Lea, Minn.

Farmers 1 and 2 miles from town.

Plain View Short-horns

A FEW good red bulls, some just over a year, healthy and thrifty, but not over fat, at farmers' prices if taken soon. All by good Scotch bulls.

GEORGE A. HANS, NEWTON, IOWA.

A Scotch Herd Header For Sale

DARK red, by Imp. Kinellar Stamp and out of Imp. Lady Belle 7th, 17 months old. Also several younger bulls that will soon be a year old.

T. A. DAVENPORT, BELMONT, IOWA.

CHAS. C. NORTON, CORNING, IOWA,

HAS for sale at moderate prices, several choice young Scotch Short-horn bulls, suitable to head the best of pure bred herds. The international winner Imp. Cock Robin, and the choice young bull, Gloster's Favorite, head the herd. Write me.

HIGH-CLASS SHORT-HORN BULLS

EIGHT good Short-horn bulls for sale, 12 to 14 months old. Good colors, good individuals and prices reasonable. Dan Powers, Ulysses, Neb.

When writing mention this paper.

SCOTCH BULLS

I HAVE 5 excellent young Scotch bulls for sale, sired by Diamond Tex, a son of Imp. Cock Robin and Royal Mina. These bulls are fit to head any of our best herds. Address

S. A. BIXLER, CORNING, IOWA.

Wildwood Bulls

FOUR bulls of serviceable age for sale; two are Scotch and two Scotch Topped; they are strong, growthy fellows with a wealth of natural flesh. Will sell a few cows and heifers bred to Headlight and Brawith Lad. Come and see them or address

W. W. VAUGHN - MARION, IOWA.

GOOD bargains—8 head pure-bred, Scotch-topped, red Short-horn bulls for sale; 1 to 2 years old. One high-grade, 3-year-old black Percheron stallion; 1,325 lbs. Good boned fall and spring Duroc and P. C. boars and gilts, large type; best of breeding. R. M. Young, Cook, Johnson County, Neb. Location—5 miles southeast Cook; 10 miles northeast Tecumseh.

SCOTCH and SCOTCH-TOPPED BULLS

I AM offering Royal Lavender, a splendid yearling roan Scotch bull, and a yearling Scotch Athene. Others that are strictly choice. Also several Scotch-topped bulls by Lord Mulineer. Prices low if taken soon. PERRY O. BROWN, LAMONT, IOWA.

FOR SALE QUICK

A "REAL" herd header, red, "Cruickshank Secret," 22 months old, bred by Chas. C. Norton, son of his noted "Gloster's Favorite." You will buy if you see him. Write us now for particulars.

H. S. & W. B. Duncan, Clearfield, Taylor, Co., Ia.

GOOD RED SCOTCH BULLS FOR SALE

FROM October calves to 2-year-olds, Scotch Rosemary families predominate. Bulls sired by Scotch Ringmaster, Count Commodore and other Scotch bulls. Farm two miles from West Branch.

Wm. M. Smith & Sons, West Branch, Iowa.

BARGAINS IN SHORT-HORN BULLS

FOURTEEN serviceable Short-horn bulls for sale at bargain prices, principally all reds, including several Scotch bulls, in ages from 12 months old and upward. Address, JESSE BINFORD & SONS, ALBION, IOWA, OR LISCOMB, IOWA.

Good Red Short-horn Bulls

A DOZEN Scotch and Scotch-topped bulls, 10 to 24 months old, some good enough for the best herds, others suitable for farmers. Sires Courtier 5th 27759 and Baron Secret 2d 289279. Address

OWENS BROS. - - HOMESTEAD, IOWA.

GEO. H. WHITE, EMERSON, IOWA,

Breeder of High-Class Short-horns.

HERD headed by Hampton's Counsellor and The Dreamer. I have a number of very choice young bulls for sale. Address

GEO. H. WHITE, EMERSON, IOWA.

GALLOWAY CATTLE.

GALLOWAYS

HEIFERS, cows and bulls. Anything you want and at popular prices. Oldest herd of Galloways in Iowa County. Address

John C. Gahring, R. 1, Box 23, Marengo, Ia.

HORSES.

MARES FOR SALE

The Iowa State College is offering for sale one choice Clydesdale mare, five years old, an International winner, and one imported Hackney mare, both with foal. Also one first-class Short-horn bull. Address

DIVISION OF AGRICULTURE,
IOWA STATE COLLEGE, AMES, IOWA.

Clydesdale Headquarters

Janesville, Wisconsin

THERE'S A REASON

WE can buy better and cheaper. Our expense is less. Come and see. Write or wire.

McLay Brothers

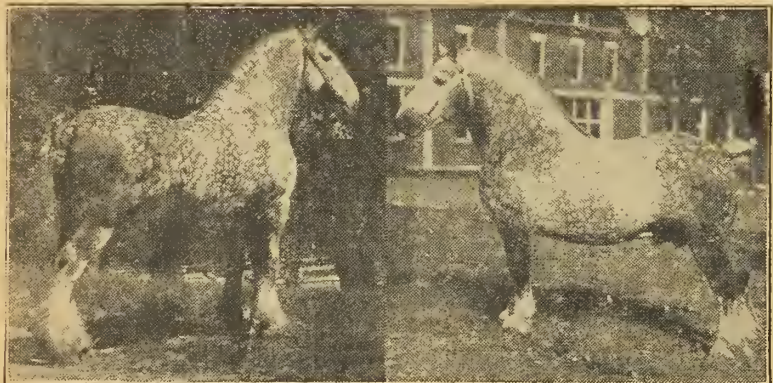


FINE HORSE PICTURES

The engravings in this advertisement are made from photographs and paintings—the work of our art department. They have the true-to-life look. We make both pictures and engravings for catalogs or other advertising purposes. Prices reasonable. For particulars write

ART DEPARTMENT

THE PIERCE FARM WEEKLIES DES MOINES, IOWA



Mares Bred and Owned by Maasdam & Wheeler, Fairfield, Iowa. ONLY THE BIGGEST AND BEST

Maasdam & Wheeler Breeder and Importers of PERCHERON HORSES

Importation sixty stallions and mares arrived June and July.

60 STALLIONS and 80 MARES

To select from. Our stock has size, bone and quality. Stallions and mares from weanlings to seven years old for sale. Imported and home-bred. Farm three miles south of city.

FAIRFIELD - IOWA

PERCHERON AND BELGIAN STALLIONS—IMPORTED AND HOME-BRED—MARES

Carefully selected to get the good, big, rugged kind; all fresh, with plenty of bone and action. All of my horses are well grown and are mostly solid colors. A splendid lot of young stallions and mares now on hand.

O. P. HENDERSHOT

HEBRON, NEBRASKA.

FAIRVIEW JACK and JENNET FARM

40 Registered Mammoth Jacks and 22 Jennets for sale cheap at all times. They have big bone, big heads and ears, and breed big mules. They are Missouri Jacks—the best that grow—14½ to 16 hands.

Everything guaranteed as represented. Est. 1892.

J. C. HUCKSTEP, Prop.,
FOOTA, MO., Pike Co.

PRIZE BELGIAN IMPORTED MARES

All prize winners at the Iowa State Fair, broken to harness and in an ideal breeding form. They are sold in foal to the service of Robert H. De Run (reserve champion at the Iowa State Fair), or Coquet (for two successive years a prize winner at the Iowa State Fair). Correspondence and inspection solicited. CHAS. IRVINE, ANKENY, IOWA.



FRANK L. STREAM,
Creston, Iowa, is selling choice imported Belgian, Percheron, English Shire, Suffolk Punch and German coach stallions at \$1,000. Home bred registered draft stallions \$300 to \$650.

WE HAVE EIGHTY-FIVE PERCHERON STALLIONS and MARES

FOR SALE AT KEOTA.

50 Stallions—35 Mares

We made one importation in May and one in September of last year. If you want to buy a big, rugged horse or mare with lots of bone and quality and want to buy them at the lowest possible price at which such an animal can be sold, come and see Keiser's Percherons at Keota.

C. O. KEISER, Keota, Ia.

AT LOW PRICES

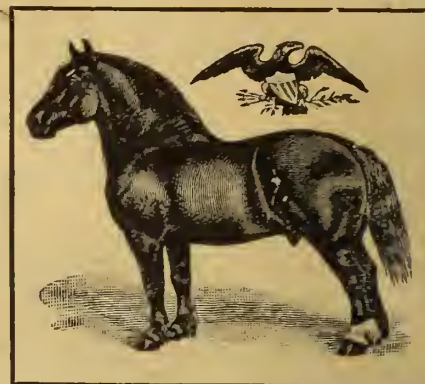
BELGIANS
PERCHERONS
GERMAN COACHERS

A. R. IVES, DELAVAN, WISCONSIN.

GREELEY HORSE IMPORTING COMPANY

WORLD'S GREATEST IMPORTING ESTABLISHMENT

Percherons,
Belgians,
Shires,
German and French
Coachers,
Hackneys.



500 STALLIONS IMPORTED IN 1909

Spring importations arriving every month until July 1st.

Our barns are full now, and no matter what you want in the stallion line, we can please you at prices to suit.

We want you to come to Greeley and look them over.

We particularly solicit the patronage of dealers wishing to handle from two to a dozen or more stallions. We can supply them at much lower prices than you can import them for.

Send 15 cents in stamps for large colored lithograph, 24x36, suitable for framing, and 225-page catalog.

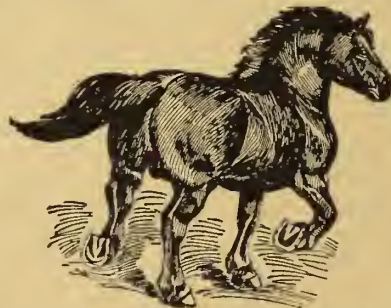
A. B. HOLBERT, Greeley, Ia.

PINE RIDGE PERCHERONS

ARE ACKNOWLEDGED EVERYWHERE TO BE THE BEST

Of the HOME-BRED: The last of Samson's 27238 colts are now three years old. Yearlings and two-year-olds sired by Tavernier 35719. Of the IMPORTED: Not the biggest lot, but by far the BEST PERCHERONS ever brought across the Atlantic arrived at Pine Ridge Farm August 19th. Personally selected; bone, size and quality unexcelled; the BEST to be had. 175 HEAD STALLIONS and MARES always on hand. Prices below competition. Satisfaction guaranteed to every customer.

L. M. HARTLEY
PINE RIDGE FARM, Salem, Ia.



DRAFT HORSE HEADQUARTERS GREELEY, IOWA.

DRAFT horse buyers will find at our barns a lot of valuable stallions—Belgians, Percherons and Shires of right age for immediate service. A few good Coachers. Come and see how cheap we sell.

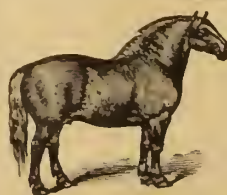
W. A. LANG & CO., GREELEY, IOWA.



To Prospective STALLION and MARE BUYERS

WE landed home April 20th, with eighty head of two-year-old Percheron stallions and mares. Being the first importers in the Perche district, we secured the TOPS at prices no higher than others will have to pay for the CULLS in July and August. If you wish to purchase an extraordinary line pair of young mares or a stallion, you are invited to inspect this grand lot of young horses. We have fifty young mares on pasture being bred to one of the best horses in America, and fifty young stallions in the barn to select from. Write us your wants; it will cost you but two cents. We will save you hundreds of dollars. Homewood is on the main line of Big Four and Illinois Central Railroads, twenty three miles south of Chicago. Suburban trains hourly. Bell telephone, Homewood 204.

S. METZ & SONS, HOMEWOOD, ILL.



BELGIAN EMPORIUM of AMERICA

STALLIONS all sold. Can spare a few more mares, your choice from thirty. I have sold over one hundred head this past season, and will return from Belgium, Sept. 1st, with another supply to refill all my barns.

HENRY LEFEBURE, FAIRFAX, LINN COUNTY, IOWA.

CLYDESDALES and PERCHERONS—Imported and home-bred. A select lot of stallions and some extra choice mares. Prices right. Address R. O. MILLER, Route 1, LUCAS, IOWA.

IMP. Shire stallions and mares; yearlings to four-year-olds for sale. Have weight and quality; are priced right. R. Wilkinson & Sons, Mitchellville, Ia.

SHETLAND PONIES

I HAVE one of the largest herds of registered ponies in the state, and now offer for sale some horse colts, but no mares. Send 2-cent stamp for pony postcards. F. P. Healy, Bedford, Iowa.

When writing mention this paper.

\$10,000 a Year on a \$100 Investment

Learn Auctioneering at the World's Greatest School and be Independent. Read This Record.

Wichita, Kan., June 3, 1910. Carey M. Jones, Chicago, Ill. Dear Friend:—Business with me is wonderfully good. In fact, the best business I have ever had has been since March 1st. I am selling a great many stocks of implements at auction. I enclose a sale bill of stock for June 11th which will make me at least \$500 for my services. I have several dates ahead that will make me from \$200 to \$500 per day. Have built up a wonderful business and feel sure that my commissions for this year will nearly if not quite reach the \$10,000 mark. Thanking you for past favors, and with best wishes to you and all of the faculty, I remain, Very truly yours, BOYD NEWCOM.

The next and only summer term at JONES' NATIONAL SCHOOL OF AUCTIONEERING OPENS JULY 25TH. Write today for handsome catalog which tells you how you can become a successful member of America's most lucrative and least crowded profession. Mention this paper and address

CAREY M. JONES, President, 2856 Washington Blvd., CHICAGO, ILL.

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Arp-Converse-Clouss, Red Polled	203
Atwood, L. L., Angus	624
Balmat & Son, O. T., Duroc	352
Bardwell & Barnard, Duroc	203
Baxter & Comer, Duroc	165
Beerman, Chas., Duroc	222
Bellows Bros., Short-horn	1259

Bennethum, W. R., Duroc	338
Berkheimer, L. E., White Geo. H., Short-horn	1040
Beth & Son, Frank, Duroc	155
Bill & Son, J. G., Short-horn	1173
Billiter, W. H., Polled Durham	149
Binford & Sons, Short-horn	1259
Bolman, R. L., Hampshire	366
Botts & Sons, Short-horn	1257
Breeders, Hereford	684
Briggs & Son, Geo., Duroc	624
Brookmont Farm, Hereford	739
Brown, E. J., Duroc	498
Buck & Miller, Duroc	560
Burge, Geo., Short-horn	560
Butterfield, F. B., Duroc	378
Cameron, Carey, Duroc	561
Cantine, H. L., Duroc	436
Cash, Wm., Angus	739
Clark, Dan, Red Polled	155
Cockerton, Jas., Poland China	436
Combination, Holstein	1170
Combination, Hummer, Edwin, Mpls., C. R., Patten & Morris, Duroc	367
Combination, Percheron	789
Combination, Short-horn	789
Cook, A. E., Hereford	301
Cooper, W. H., Poland China	436
Crocker, F. C., Duroc	437
Crow, W. J., Poland China	371
Cutler, W. E., Short-horn	1120
Davis, J. E., Duroc	437
De Vaul, C. A., Duroc	371
Donohue, M. H., Angus	685
Dorr, Henry, Poland China	345
Eagle, S. E., Duroc	561
Edmonds, Shade & Co., Duroc	370
Elder, Frank, Duroc	560
Elliott, W. Byron, Short-horn	39
Escher & Son, Angus	1170
Finley, W. J., jack	625
Fox River Valley Guernsey Breeders' Association, Guernsey	1115
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Freed, S. P., Duroc	140
Gates, J. O., Duroc	224
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Glissman, H. C., Holstein	499
Goddard, John, Duroc	437
Goodenough, A. L., Hampshire	342
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Guthrie, A. T., Shire, Percheron, Short-horn and Shropshire	338
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Hancher, M. P., Poland China	624
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Hess, Harvey J., Angus	1173
Hitch, J. H., Poland China	561
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Hodson, Lon, Duroc	560
Holt, W. R., Berkshire	562
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Hopper, S. L., Duroc	225
Houchin, Jas., horse	931
Huff, C. W., hog	560
Huffman, Claud, Duroc	111

